

TEMPORARY AND PRELIMINARY NOTICES

In force on 10 April 2015

NEW SOUTH WALES

410(T)/2011 AUSTRALIA - NEW SOUTH WALES - Port Kembla - Spoil ground

Port Kembla Port Corporation Notice 2/2011 (AA528983)

A spoil ground marked by six lit special buoys exists in the vicinity of position 34° 28'.33 S 150° 54'.57 E.

Chart temporarily affected - Aus 194 - Aus 195

864(T)/2011 AUSTRALIA - NEW SOUTH WALES - Port Kembla - Obstruction

Port Kembla Port Corporation Notice 9/2011 (AA551936)

A silt curtain, marked by special light buoys Q.Y, exists in the outer harbour between the following positions:

34° 28'.18 S 150° 54'.15 E

34° 28'.15 S 150° 54'.27 E

34° 28'.47 S 150° 54'.33 E.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 194 - Aus 195

457(T)/2013 AUSTRALIA - NEW SOUTH WALES - Broken Bay - Barrenjoey Head - Light range reduced

Former Notice - 1318(T)/2010 is cancelled

NSW Maritime (AA506509)

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

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

697(T)/2013 AUSTRALIA - NEW SOUTH WALES - Cape Baily to Ben Buckler - Scientific instruments

Former Notice - 748(T)/2011 is cancelled

Date - Until 30 June 2015

Sydney Institute of Marine Science (AA375220, AA420046, AA545275, AA683400)

Subsea moorings (25 metres below the surface) exist in positions as follows:

33° 53'.76 S 151° 17'.30 E

33° 53'.99 S 151° 17'.30 E

33° 54'.23 S 151° 17'.72 E

33° 54'.51 S 151° 18'.14 E

33° 54'.76 S 151° 18'.56 E

33° 55'.02 S 151° 19'.01 E

33° 55'.28 S 151° 19'.45 E

33° 55'.54 S 151° 19'.89 E

33° 55'.80 S 151° 20'.31 E

33° 56'.06 S 151° 21'.17 E

33° 56'.32 S 151° 22'.61 E

33° 56'.60 S 151° 22'.06 E

33° 56'.85 S 151° 22'.50 E

33° 57'.12 S 151° 22'.95 E

33° 57'.40 S 151° 23'.39 E

33° 57'.91 S 151° 24'.25 E

33° 58'.65 S 151° 23'.84 E

33° 58'.20 S 151° 24'.64 E

33° 58'.49 S 151° 25'.08 E

33° 58'.77 S 151° 25'.57 E

33° 59'.08 S 151° 26'.06 E

33° 59'.33 S 151° 26'.47 E

33° 59'.97 S 151° 27'.33 E

34° 00'.21 S 151° 27'.85 E

34° 00'.48 S 151° 28'.27 E

34° 00'.77 S 151° 28'.74 E

34° 01'.33 S 151° 29'.16 E

34° 01'.31 S 151° 29'.63 E

34° 01'.59 S 151° 30'.08 E.

Chart temporarily affected - Aus 197 - Aus 200 - Aus 808 - Aus 809 - AX 00808S - AX 00809S - AX 63200

699(T)/2013 AUSTRALIA - NEW SOUTH WALES - Cabbage Tree Bay to Curl Curl Head - Scientific instruments

Former Notice - 750(T)/2011 is cancelled

Date - Until 30 June 2015

Sydney Institute of Marine Science (AA353372, AA353373, AA424523, AA545275, AA683400)

Subsurface scientific instruments exist in positions:

33° 48'.03 S 151° 18'.03 E

33° 47'.98 S 151° 17'.65 E

33° 47'.99 S 151° 17'.73 E

33° 47'.92 S 151° 17'.61 E

33° 47'.93 S 151° 17'.69 E.

Chart temporarily affected - Aus 197 - Aus 200 - Aus 201 - AX 00201T - AX 63200

574(T)/2014 AUSTRALIA - NEW SOUTH WALES - Port Kembla - Depth information

Former Notice - 393(T)/2013 is cancelled

Port Kembla Port Corporation Notice 3/2014 (AA748537, AA748540)

Available depths as at 13 June 2014:

<i>Berth</i>	<i>Metres</i>	<i>Remarks</i>
Inner Harbour	15.1	
* North West Basin	11.6	
* 101	11.5	
* 102	16.2	
* 103	12.1	
* 104	15.6	
* 105	15.1	
* 106	13.8	
* 107	12.1	
* 109	12.1	11.5m exists at far north end of berthing box.
* 110	10.5	
* 111	15.3	
* 112	12.9	
* 113	11.4	11.4m exists west of 12m chainage, 10.9m exists east of this point.
* 201	10.9	
202	10.5	To 210m mx LOA 180m
* 202	10.4	To 210m mx LOA 195m
* 202	10.2	To 210m
* 203	10.0	
204	4.2	
* 205	6.3	
* 206	11.2	
* Indicates revised entry.		

Chart temporarily affected - Aus 194

779(T)/2014 AUSTRALIA - NEW SOUTH WALES - Hawkesbury River - Mullet Creek - Light buoy

Date - Until 31 July 2015

Hornsby Shire Council (AA757965)

A special cylindrical light buoy, *Fl. Y. 5s*, exists in position 33° 31'.65 S 151° 14'.16 E.

Chart temporarily affected - Aus 204 - Aus 217 - AX 00215T

1013(T)/2014 AUSTRALIA - TASMAN SEA - Tasman Basin - Light buoy off station

Australian Bureau of Meteorology (AA771552)

The light buoy (44° 51'.2 S 161° 43'.7 E) is drifting and currently in position 44° 47'.47 S 161° 49'.30 E (20 October 2014).

Chart temporarily affected - Aus 4601 (INT 601)

1063(T)/2014 AUSTRALIA - NEW SOUTH WALES - Botany Bay - Depth information

Former Notice - 217(T)/2014 is cancelled
Sydney Ports Corporation (AA724449)

Available depths as at 3 November 2014:

<i>Channel/Berth</i>	<i>Metres</i>
Main Channel to Molineux Point	15.6
Port Botany Swinging Basin	15.9
Kurnell 2 Approaches	12.1
Kurnell 1 & 3 Approaches	12.8
Kurnell No1	12.8
Kurnell No2	12.1
Kurnell No3	14.0
Hayes Dock (channel)	16.4
Hayes No1	16.4
Hayes No2	16.4
Hayes No3	16.4
Hayes No4	16.4
Brotherson Dock No5	16.4
Brotherson Dock No6	16.4
* Brotherson Dock No7	13.9
* Brotherson Dock No8	13.8
* Brotherson Dock No9	13.3
* Brotherson Dock No10	12.7
* Brotherson Dock No11	12.3
* Brotherson Dock No12	14.5
Bulk Liquids 1	18.3
Bulk Liquids 2	19.0
* Indicates new or revised entry.	

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

43(T)/2015 AUSTRALIA - NEW SOUTH WALES - Clarence River - Harwood - Obstructions

Port of Clarence River (Yamba) 002(T)/2015 (AA784201)

Underwater obstructions exists in the vicinity of 29° 25'.52 S 153° 16'.06 E.

Chart temporarily affected - Aus 222

179(T)/2015 AUSTRALIA - NEW SOUTH WALES - Botany Bay - Kurnell - Harbour works

Date - Until 26 December 2015

Sydney Ports Corporation Notice 05/2015 (AA789734)

Harbour works are in progress at No1 berth (34° 00'.0 S 151° 12'.61 E) . The berth will be closed and will be unavailable for the duration of the works.

Mariners are advised to navigate with caution in the area.

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

239(T)/2015 AUSTRALIA - NEW SOUTH WALES - Clarence River - North Channel - Light buoy off station

Port of Clarence River (Yamba) Notice 004(T)/2015 (AA793434)

The special light buoy, Q(4)Y.6s (29° 25' .39 S 153° 21'. 20 E) is off station.

Chart temporarily affected - Aus 222

241(T)/2015 AUSTRALIA - NEW SOUTH WALES - Port Jackson - Millers Point - Harbour works

Former Notice - 337(T)/2013 is cancelled

Port Authority of New South Wales Notice 06/2015 (AA789736)

Works are marked by a north cardinal light buoy, VQ (33° 51'.32 S 151° 11'.99 E), with six special light buoys, Q.Y, spaced equally to the west cardinal light buoy, Q(9)15s (33° 51'.63 S 151° 12'.01 E).

A silt curtain marked by unlit special buoys exists within the boundary of the buoys.

An exclusion zone exists within the area.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 200 - Aus 202 - AX 00202T

242(T)/2015 AUSTRALIA - NEW SOUTH WALES - Sydney Harbour - Depth information

Former Notice - 1066(T)/2014 is cancelled

Sydney Ports Corporation (AA793095))

Available depths as at 3 November 2014:

<i>Berth</i>	<i>Metres</i>
* Overseas Passenger Terminal	10.2
* Glebe Island 1	12.1
Glebe Island 2	11.9
Glebe Island 7	10.7
Glebe Island 8	8.3
White Bay 2	10.4
White Bay 3	10.7
White Bay 4	11.1
White Bay Cruise Terminal	10.8
Gore Cove 1	13.0
Gore Cove 2	9.8

* Indicates new or revised entry.

Chart temporarily affected - Aus 200 - Aus 202 - AX 00202T

356(T)/2015 AUSTRALIA - NEW SOUTH WALES - Port Jackson - Goat Island - Drilling operations

Date - Until 31 July 2015

Port Authority of New South Wales Notice 8/2015 (AA798927)

Drilling operations are being conducted in an area bounded by the following positions:

33° 51'.33 S 151° 12'.02 E

33° 51'.03 S 151° 12'.23 E

33° 50'.85 S 151° 11'.60 E

33° 51'.11 S 151° 11'.41 E.

The vessels will display appropriate lights and shapes.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 200 - Aus 202 - AX 00202T

423(T)/2015 AUSTRALIA - NEW SOUTH WALES - Newcastle - Depth information

Former Notice - 355(T)/2015 is cancelled

Newcastle Port Corporation (AA801747)

Available depths as at 31 March 2015:

<i>Berth</i>	<i>Metres</i>	<i>Remarks</i>
Eastern Basin 1	11.5	
Eastern Basin 2 North of Ch 450	11.6	
Eastern Basin 2 South of Ch 450	11.4	
Western Basin 3	11.6	
Western Basin 4	11.6	
Channel Berth	9.7	
* Dyke 1	12.8	
Dyke 2	12.8	
Dyke 4	16.5	
Dyke 5	16.5	
Dyke 6	5.3	
Mayfield 4 Ch 27 to 266	12.8	
BHP Wharf 6 to Ch 1050	7.3	
Kooragang 2	11.6	
Kooragang 2 North Dolphin Ch 182 to 243	11.6	
Kooragang 2 South Dolphin Ch -92 to 00	11.4	
Kooragang 3 Ch -40 to 00	13.1	
Kooragang 3 Ch 00 to 220	13.3	
Kooragang 4	16.2	
Kooragang 5	16.5	
Kooragang 6	16.5	

Kooragang 7	16.5	
Kooragang 8	16.4	
Kooragang 9	16.4	
Kooragang 10	16.4	
Throsby 1 Ch 850 to 1030	8.9	
Carrington Wharf		To be sounded as and when required
Foreshore Park Berth	5.9	
Elgo Wharf		To be sounded as and when required
<i>Channels</i>		
Entrance Approach	17.5	
Entrance Channel (18.0m)	17.7	
Entrance Channel (17.4m)	17.4	
Entrance Channel (16.8m)	16.8	
Entrance Channel (16.2m)	16.2	
Entrance Channel to Horseshoe	15.2	
Horseshoe	15.2	
Steelworks Channel to Swinging Basin	15.2	
Swinging Basin	15.2	
Hunter River South Arm (Kooragang 6 to buoy 16)	15.2	
Hunter River South Arm (buoy 16 to buoy 20)	15.2	
Basin Cutting	12.6	
* Basin Area to Eastern & Western Basin Berths	12.6	
Basin Area to Throsby 1	9.2	
Stockton Crossing	3.6	
* Indicates new or revised entry.		

Chart temporarily affected - Aus 207 - Aus 208 - Aus 809 - AX 00809S

QUEENSLAND

763(T)/2010 AUSTRALIA - QUEENSLAND - Shute Harbour - Wreck

Maritime Safety Queensland Notice 568(T)/2010 (AA480151)

A wreck marked by a special light buoy, *Fl.Y.5s*, exists in position 20° 17'.76 S 148° 47'.24 E.

Chart temporarily affected - Aus 252 - Aus 253

1188(T)/2010 AUSTRALIA - QUEENSLAND - Io Reef - Light beacon destroyed; light buoy established

Former Notice - 382(T)/2010 is cancelled

Maritime Safety Queensland Notice 932(T)/2010 (AA500605)

The west cardinal light beacon (20° 41'.58 S 149° 07'.70 E) has been destroyed; a west cardinal light buoy, *Q(9)15s*, exists in situ.

Chart temporarily affected - Aus 251 - Aus 252 - Aus 824

1189(T)/2010 AUSTRALIA - QUEENSLAND - Whitsunday Group - Shaw Island - Platypus Rock - Light beacon destroyed; light buoy established

Former Notice - 511(T)/2010 is cancelled

Maritime Safety Queensland Notice 926(T)/2010 (AA500696)

The west cardinal light beacon (20° 31'.23 S 149° 02'.31 E) has been destroyed; a west cardinal light buoy, *VQ(9)10s*, exists in situ.

Chart temporarily affected - Aus 252 - Aus 254 - Aus 824

1191(T)/2010 AUSTRALIA - QUEENSLAND - Surprise Rock - Light beacon destroyed; light buoy established

Former Notice - 329(T)/2009 is cancelled

Maritime Safety Queensland Notice 929(T)/2010 (AA500615)

The isolated danger light beacon (20° 21'.3S 149° 01'.6 E) has been destroyed; an isolated danger light buoy, *Fl(2)6s*, exists in situ.

Chart temporarily affected - Aus 252 - Aus 253 - Aus 824

1193(T)/2010 AUSTRALIA - QUEENSLAND - Whitsunday Island - Reef Point - Light beacon destroyed; light buoy established

Former Notice - 446(T)/2010 is cancelled

Maritime Safety Queensland Notice 927(T)/2010 (AA500700)

The port lateral light beacon (20° 17'.45 S 148° 54'.71 E) has been destroyed; a port lateral light buoy, *Fl.R.2·5s*, exists in situ.

Chart temporarily affected - Aus 252 - Aus 253 - Aus 254

1394(T)/2010 AUSTRALIA - QUEENSLAND - Whitsundays - The Narrows - Buoy off station

Maritime Safety Queensland Notice 1042(T)/2010 (AA508738)

The port lateral buoy (20° 04'.34 S 148° 54'.17 E) is off station.

Chart temporarily affected - Aus 254

757(T)/2011 AUSTRALIA - QUEENSLAND - Laguna Quays - Lights unlit; light beacons damaged

Former Notice - 444(T)/2010 is cancelled

Maritime Safety Queensland Notice 686(T)/2011 (AA546594)

Light beacons marking the entrance to Laguna Quays (20° 36'.03 S 148° 41'.21 E) may be damaged or unlit.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 252

758(T)/2011 AUSTRALIA - QUEENSLAND - Laguna Quays - Shoaling

Former Notice - 1052(T)/2006 is cancelled

Maritime Safety Queensland Notice 685/2011 (AA546595)

Shoaling exists within the entrance channel to Laguna Quays (20° 36'.03 S 148° 41'.21 E).

Mariners are advised to seek local knowledge prior to transiting the marina entrance and to navigate with caution in the area.

Chart temporarily affected - Aus 252

826(T)/2011 AUSTRALIA - QUEENSLAND - Mourilyan - Depth information

Maritime Safety Queensland Notice 702(T)/2011 (AA547518)

Available depths as at 29 July 2011:

	<i>Metres</i>
Departure Channel	9.6
Inner Channel	9.6
Swing Basin	6.7
Sugar Berth	10.1

* Indicates revised entry.

Chart temporarily affected - Aus 258

872(T)/2011 AUSTRALIA - QUEENSLAND - Bait Reef - Light beacon destroyed

Maritime Safety Queensland Notice 750(T)/2011 (AA549635)

The starboard lateral beacon (19° 48'.52 S 149° 03'.77 E) has been destroyed; a special buoy exists in situ.

Chart temporarily affected - Aus 254 - Aus 825

1020(T)/2011 AUSTRALIA - QUEENSLAND - Moreton Bay - Wynnum - Wreck; light buoy

Maritime Safety Queensland Notice 871/2011 (AA556300)

A wreck marked by a special light buoy, *Fl. Y. 2-5s*, exists in position 27° 25'.90 S 153° 10'.73 E.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 236

1210(T)/2011 AUSTRALIA - QUEENSLAND - Airlie Beach - Abel Point - Obstructions

Maritime Safety Queensland Notice 1123(T)/2011 (AA567586)

Underwater obstructions, marked by special buoys, exist in the following positions:

20° 15'.87 S 148° 42'.60 E

20° 15'.88 S 148° 42'.60 E

20° 15'.87 S 148° 42'.56 E.

Chart temporarily affected - Aus 268

59(T)/2012 AUSTRALIA - QUEENSLAND - Thursday Island - Depth information

Maritime Safety Queensland Notice 1(T)/2012 (AA574953)

Available depths as at 2 January 2012:

	<i>Metres</i>
Hovell Bar	3.2
Main Wharf	3.1 (4.1m alongside wharf)
Caltex Wharf	4.1
Engineers Wharf	3.5
Boat Channel	4.6
Inner Harbour	4.8

* Indicates revised entry.

Chart temporarily affected - Aus 293 - Aus 299

460(T)/2012 AUSTRALIA - QUEENSLAND - Hook Island - Cockatoo Point - Light beacon destroyed
Maritime Safety Queensland Notice 393(T)/2012 (AA596297)

The light beacon, *Fl.R.2-5s* (20° 04'.71 S 148° 54'.05 E) has been destroyed.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 252 - Aus 254

600(T)/2012 AUSTRALIA - QUEENSLAND - Moreton Bay - Scarborough - Shoaling
Maritime Safety Queensland Notice 609(T)/2012 (AA604629)

Shoaling with a least depth of *1.7m* exists on the northern toeline adjacent to beacon No8 (27° 11'.62 S 153° 06'.18 E). A least depth of *2m* exists between the entrance beacons (27° 10'.96 S 153° 06'.15 E) and the western boat ramp.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 236

602(T)/2012 AUSTRALIA - QUEENSLAND - Curtis Channel - Wreck
Maritime Safety Queensland Notice 579(T)/2012 (AA603887)

A wreck exists in position 24° 08'.89 S 152° 12'.12 E.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 818

645(T)/2012 AUSTRALIA - QUEENSLAND - Moreton Bay - Rainbow Channel - Light beacon withdrawn
Maritime Safety Queensland Notice 655(T)/2012 (AA607798)

The starboard light beacon, *Fl.G.4s* (27° 26'.99 S 153° 24'.67 E), has been temporarily withdrawn.

Chart temporarily affected - Aus 236

694(T)/2012 AUSTRALIA - QUEENSLAND - Gold Coast Seaway - Shoaling
Former Notice - 1142(T)/2011 is cancelled
Maritime Safety Queensland Notice 705(T)/2012 (AA611629)

Available depths as at 4 July 2012:

	<i>Metres</i>
Centre line leads (255°)	3.6
Southern approach leads (291°)	3.8

A shoal area, with a least depth of *3.6m*, is drifting northwards immediately east of the southern break wall towards the centreline leads. Deeper water, *5.5m*, is found by leaving the centre line leads open to the north.

Mariners are advised to navigate with caution when using the southern approach leads as breaking waves may be experienced when seas rise above 1.4m.

Chart temporarily affected - Aus 230

737(T)/2012 AUSTRALIA - QUEENSLAND - Gold Coast Seaway - Shoaling
Former Notice - 695(T)/2012 is cancelled
Maritime Safety Queensland Notice 706(T)/2012 (AA611628)

Shoaling, with a least depth of *2.3m*, exists in the North Channel between 27° 55'.86 S 153° 25'.30 E and 27° 55'.66 S 153° 25'.09 E.

Shoaling, with a least depth of *3.5m*, exists in the South Channel between 27° 56'.20 S 153° 25'.49 E and 27° 56'.39 S 153° 25'.26 E.

Deeper water to *3.9m* is found to the west of the channels centre line.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 230

740(T)/2012 AUSTRALIA - QUEENSLAND - Moreton Bay - Coochiemudlo Island - Light beacon

Maritime Safety Queensland Notice 768(T)/2012 (AA613763)

The special light beacon, *Fl.Y.2.5s* (27° 34'.78 S 153° 20'.37 E), has been temporarily replaced by a special light buoy, *Fl.Y.2.5s*, in situ.

Chart temporarily affected - Aus 236

859(T)/2012 AUSTRALIA - QUEENSLAND - Dent Island - Light beacon unlit; light buoy established

Former Notice - 508(T)/2012 is cancelled

Maritime Safety Queensland Notice 869(T)/2012 (AA618556)

The light beacon, *Fl.G.2.5s* (20° 20'.33 S 148° 56'.17 E) is unlit; a starboard lateral light buoy, *Fl.G.2.5s*, exists in situ.

Chart temporarily affected - Aus 253 - Aus 254

1085(T)/2012 AUSTRALIA - QUEENSLAND - Moreton Bay - Peel Island - Lazaret Gutter - Beacon destroyed

Maritime Safety Queensland Notice 1141(T)/2012 (AA632279)

The starboard beacon (27° 29'.18 S 153° 21'.06 E) has been destroyed.

Chart temporarily affected - Aus 236

1209(T)/2012 AUSTRALIA - QUEENSLAND - Whitsunday Island - Craig Point - Wreck

Maritime Safety Queensland Notice 1243(T)/2012 (AA639290)

A wreck marked by a special light buoy, *Q.Y.*, exists in position 20° 18'.58 S 149° 02'.07 E.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 252 - Aus 253

1274(T)/2012 AUSTRALIA - QUEENSLAND - Port Douglas - Depth information

Former Notice - 463(T)/2012 is cancelled

Maritime Safety Queensland Notice 1297(T)/2012 (AA642027)

Available depths as at 6 December 2012:

	<i>Metres</i>
*Outer Channel	1.4
Inner Channel	2.1
Boat ramp to marina	1.9

*Indicates revised entry.

Chart temporarily affected - Aus 270

53(T)/2013 AUSTRALIA - QUEENSLAND - Round Hill Head - Wreck

Maritime Safety Queensland Notices 1321(T)/2012, 1342(T)/2012 (AA643596, AA644831))

A wreck marked by a special light buoy, *Fl.Y.2.5s*, exists in position 24° 10'.13 S 151° 52'.75 E.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 818

105(T)/2013 AUSTRALIA - QUEENSLAND - Bundaberg - Obstruction northeastwards

Maritime Safety Queensland Notice 23(T)/2013 (AA647424)

An obstruction exists in position 24° 37'.05 S 152° 37'.54 E. A 3700m radius exclusion zone exists around the obstruction.

Chart temporarily affected - Aus 243 - Aus 817 - Aus 818

167(T)/2013 AUSTRALIA - QUEENSLAND - Weipa - Depth information

Former Notice - 1002(T)/2012 is cancelled

Maritime Safety Queensland Notice 100(T)/2013 (AA649386)

Available depths as at 1 February 2013:

	<i>Metres</i>
* Weipa Approaches	11.5
* South Channel	11.5
Departure Channel	11.3
Cora Bank South Channel	7.3
Humbug Point Approaches	8.6
Humbug Point Berth	9.5
Evans Landing	9.6
Lorim Point East	12.3
Lorim Point West	12.3
*Indicates revised entry	

Chart temporarily affected - Aus 4

211(T)/2013 AUSTRALIA - QUEENSLAND - Fitzroy River - Wreck

Maritime Safety Queensland Notice 166(T)/2013 (AA653574)

A stranded wreck exists in position 23° 25'.58 S 150° 35'.60 E.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 819

215(T)/2013 AUSTRALIA - QUEENSLAND - Oyster Point - Shoaling; obstructions

Maritime Safety Queensland Notice 151(T)/2013 (AA652929)

Shoaling and obstructions exist in Port Hinchinbrook Marina (18° 16'.71 S 146° 02'.70 E) and Grande Canal (18° 16'.88 S 146° 02'.80 E).

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 258

302(T)/2013 AUSTRALIA - QUEENSLAND - Moreton Bay - Garnet Rock - Light beacon destroyed; light buoy established

Former Notice - 148(T)/2013 is cancelled

Maritime Safety Queensland Notice 240(T)/2013 (AA658521), Maritime Safety Queensland Notice 238(T)/2013 (AA685522)

The starboard light beacon, *Fl.G.6s* (27° 14'.50 S 153° 07'.40 E) has been destroyed. A starboard lateral light buoy, *Fl.G.3s*, exists in situ.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 236

463(T)/2013 AUSTRALIA - QUEENSLAND - Great Sandy Strait - Wreck

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

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

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 240 - Aus 241

512(T)/2013 AUSTRALIA - QUEENSLAND - North Keppel Island - Wreck

Maritime Safety Queensland Notice 379(T)/2013 (AA671710)

A wreck marked by a special buoy exists in position 23° 03'.80 S 150° 53'.24 E.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 820 - AX 00820S

559(T)/2013 AUSTRALIA - QUEENSLAND - Cape Cleveland - Wreck

Maritime Safety Queensland Notice 407(T)/2013 (AA674848)

A wreck marked by a special light buoy, *Fl. Y. 2s*, exists in position 19° 10'.51 S 146° 59'.80 E.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 256 - Aus 827

602(T)/2013 AUSTRALIA - QUEENSLAND - Hinchinbrook Channel - Cardwell - Wreck

Former Notice - 1197(T)/2010 is cancelled

Maritime Safety Queensland Notice 443(T)/2012 (AA677081)

A wreck marked by a special light buoy, *Fl. Y. 2-5s*, exists in position 18° 14'.71 S 146° 01'.66 E.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 259 - Aus 828

651(T)/2013 AUSTRALIA - QUEENSLAND - Muddy Bay - Harbour works

Date - Until 20 October 2013

Maritime Safety Queensland Notice 497(T)/2013 (AA680645)

Works associated with the development of the marina are in progress in the vicinity of 20° 16'.24 S 148° 43'.50 E. The construction area is marked by special buoys.

Chart temporarily affected - Aus 253 - Aus 268

653(T)/2013 AUSTRALIA - QUEENSLAND - Cooktown - Depth information

Former Notice - 751(T)/2012 is cancelled

Maritime Safety Queensland Notice 501(T)/2013 (AA680585)

Available depths as at 24 June 2013:

	<i>Metres</i>
* Entrance Channel	1.7
* Inner Channel	2.8
* Public Wharf	2.6
* Swing Basin	2.6
* Indicates revised entry.	

Chart temporarily affected - Aus 270

814(T)/2013 AUSTRALIA - QUEENSLAND - Magnetic Island - Nelly Bay - Obstruction

Maritime Safety Queensland Notice 602(T)/2013 (AA688518)

An obstruction exists in position 19° 09'.57 S 146° 51'.29 E.

Chart temporarily affected - Aus 256

821(T)/2013 AUSTRALIA - QUEENSLAND - Trinity Bay - Light buoy withdrawn

Maritime Safety Queensland Notice 605(T)/2013 (AA688713)

The safe water light buoy, *LFl. 10s* (16° 18'.76 S 145° 27'.19 E), has been temporarily withdrawn.

Chart temporarily affected - Aus 831

1061(T)/2013 AUSTRALIA - QUEENSLAND - Townsville - Stuart Creek - Wreck

Maritime Safety Queensland Notice 816(T)/2013 (AA701888)

A wreck marked by a special light buoy, *Fl. Y. 2-5s*, exists in position 19° 16'.82 S 146° 49'.83 E.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 257

1098(T)/2013 AUSTRALIA - QUEENSLAND - Cape Tribulation - Wreck; exclusion zone

Former Notice - 1055(T)/2013 is cancelled

Maritime Safety Queensland Notice 831(T)/2013 (AA703110)

A wreck exists in position 16° 07'.64 S 145° 31'.22 E.

Salvage operations are in progress and a 1852m radius exclusion zone exists around the wreck.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 831 - AXA 0830T

1101(T)/2013 AUSTRALIA - QUEENSLAND - Hay Point - AIS trial

Date - Until 15 January 2014

Maritime Safety Queensland Notice 827(T)/2013 (AA703038, AA703683)

AIS exist as follows:

<i>MMSI</i>	<i>Position (WGS84 datum)</i>	<i>Remarks</i>	<i>Type</i>
995036068	21° 15'.96 S 149° 19'.70 E	Starboard lateral mark	Virtual
995036069	21° 16'.22 S 149° 19'.78 E	Port lateral mark	Virtual
995036067	21° 15'.61 S 149° 19'.54 E	Special mark	Virtual
995031021	21° 15'.33 S 149° 23'.18 E	Port lateral mark	Synthetic

Chart temporarily affected - Aus 249 - Aus 250 - AX 00249S

1104(T)/2013 AUSTRALIA - QUEENSLAND - Mooloolaba - Light beacon damaged

Maritime Safety Queensland Notice 832(T)/2013 (AA702961)

The No8 light beacon (26° 41'.01 S 153° 08'.12 E) has been damaged; a temporary light, *Fl.R.2-5s*, exists on the beacon.

Chart temporarily affected - Aus 235

1109(T)/2013 AUSTRALIA - QUEENSLAND - Whitsundays - Spitfire Rock - Light beacon destroyed

Former Notice - 422(T)/2011 is cancelled

Maritime Safety Queensland Notice 930(T)/2010, 837/2013 (AA500617, AA702934)

The west cardinal light beacon (20° 28'.59 S 149° 01'.70 E) has been destroyed; a west cardinal cylindrical light buoy *Q(9)15s* exists in situ.

Chart temporarily affected - Aus 252 - Aus 254 - Aus 824

1214(T)/2013 AUSTRALIA - QUEENSLAND - Cape Bowling Green - Scientific instrument

Former Notice - 926(T)/2011 is cancelled

Australian Institute of Marine Science (AA710432)

A subsurface scientific instrument, depth *10m*, exists in position 19° 18'.25 S 147° 37'.23 E.

Chart temporarily affected - Aus 826 - Aus 827

1223(T)/2013 AUSTRALIA - QUEENSLAND - Weipa - Light beacon destroyed

Former Notice - 1165(T)/2013 is cancelled

Maritime Safety Queensland Notices 896(T)/2013; 915/2013 (AA706057, AA708092)

SC24 light beacon, *Q.R* (12° 40'.16 S 141° 49'.74 E), has been destroyed; a port lateral light buoy, *Q.R*, exists in situ.

Chart temporarily affected - Aus 4

1268(T)/2013 AUSTRALIA - QUEENSLAND - Moreton Bay - Redland Bay - Light beacon destroyed

Maritime Safety Queensland Notice 951(T)/2013 (AA712577)

The starboard light beacon, *Fl. G.3s* (27° 36'.83 S 153° 18'.84 E), has been destroyed.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 236

1270(T)/2013 AUSTRALIA - QUEENSLAND - Pumicestone Channel - Ningi Creek - Wreck

Maritime Safety Queensland Notice 938(T)/2013 (AA711733)

A wreck, marked by buoys, exists in position 27° 03'.91 S 153° 08'.04 E.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 235 - Aus 236

1274(T)/2013 AUSTRALIA - QUEENSLAND - Two Islands - Wreck

Maritime Safety Queensland Notice 933(T)/2013 (AA711818)

A wreck exists in position 15° 01'.72 S 145° 28'.01 E.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 831 - Aus 832

64(T)/2014 AUSTRALIA - QUEENSLAND - Rib Reef - Light buoy withdrawn

Maritime Safety Queensland Notice 958(T)/2013 (AA714657)

The special light buoy, *Fl. Y.5s* (18° 28'.11 S 146° 52'.34 E), has been temporarily withdrawn.

Chart temporarily affected - Aus 828

129(T)/2014 AUSTRALIA - QUEENSLAND - Cairns - Trinity Inlet - Wreck

Maritime Safety Queensland Notice 20(T)/2014 (AA717934)

A stranded wreck, marked by a special buoy, exists in position 16° 55'.64 S 145° 47'.10 E.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 263

167(T)/2014 AUSTRALIA - QUEENSLAND - Airlie Beach - Muddy Bay - Wreck

Maritime Safety Queensland Notice 74(T)/2014 (AA721262)

A wreck marked by a special light buoy, *Q. Y.*, exists in position 20° 16'.07 S 148° 43'.64 E.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 252 - Aus 253 - Aus 268

229(T)/2014 AUSTRALIA - QUEENSLAND - Moreton Bay - Redcliffe - Light beacon withdrawn

Maritime Safety Queensland Notice 108(T)/2014 (AA724472)

The east cardinal light beacon, *Q(3)10s* (27° 13'.57 S 153° 07'.13 E), has been temporarily withdrawn.

Chart temporarily affected - Aus 236

232(T)/2014 AUSTRALIA - QUEENSLAND - Townsville - Wreck

Maritime Safety Queensland Notice 109(T)/2014 (AA723945)

A wreck marked by a special light buoy, *Fl. Y.4s*, exists in position 19° 14'.90 S 146° 49'.64 E.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 256 - Aus 257

269(T)/2014 AUSTRALIA - QUEENSLAND - Bowen - Wreck

Former Notice - 221(T)/2014 is cancelled

Maritime Safety Queensland Notice 144(T)/2014 (AA727566)

A stranded wreck marked by a light, *Fl.Y.4s*, exists in position 20° 01'.37 S 148° 15'.58 E.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 268

379(T)/2014 AUSTRALIA - QUEENSLAND - Magnetic Island - Bremner Point - Scientific instrument

Date - Until 5 November 2015

Maritime Safety Queensland 91(T)/2014 (AA731108)

A scientific instrument marked by special light buoy, *Fl.Y.3s*, exists in position 19° 09'.32 S 146° 52'.57 E.

Chart temporarily affected - Aus 256

414(T)/2014 AUSTRALIA - QUEENSLAND - Cooktown - Endeavour River - Light buoys off station

Maritime Safety Queensland Notice 216(T)/2014 (AA734759)

The following light buoys are off station:

No1, Fl.G.2·5s (15° 27'. 21 S 145° 15'. 33 E)

No2, Fl.R.2·5s (15° 27'. 22 S 145° 15'. 37 E)

Chart temporarily affected - Aus 270

415(T)/2014 AUSTRALIA - QUEENSLAND - Cooktown - Endeavour River - Wreck

Maritime Safety Queensland Notice 225(T)/2014 (AA735181)

A wreck marked by a light, *Fl.Y.2·5s*, exists in position 15° 27'.84 S 145° 14'.92 E.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 270

423(T)/2014 AUSTRALIA - QUEENSLAND - Yorkeys Knob - Light beacon destroyed

Maritime Safety Queensland Notice 222(T)/2014 (AA735178)

The port lateral light beacon (16° 48'.01 S 145° 43'.03 E) has been destroyed.

Chart temporarily affected - Aus 262 - AX 00262T

447(T)/2014 AUSTRALIA - QUEENSLAND - Decapolis Reef - Light beacon; light buoy

Former Notice - 413(T)/2014 is cancelled

Date - Until 30 June 2015

Australian Maritime Safety Authority Final ATH 10/2014 (AA740294)

The light beacon, *Fl.2·5s 6m 10M* (14° 51'.10 S 145° 16'.41 E), has been destroyed.

A temporary starboard lateral pillar light buoy, *Fl.G.2·5s*, exists in position 14° 50'.97 S 145° 16'.54 E.

Chart temporarily affected - Aus 832

579(T)/2014 AUSTRALIA - QUEENSLAND - Gladstone - Scientific instruments

Maritime Safety Queensland Notices 260(T)/2014, 298(T)/2014 (AA748392, AA748395)

Special light buoys, *Fl.Y.4s*, exist in the following positions:

23° 46'.39 S 151° 22'.85 E

23° 50'.24 S 151° 27'.14 E

23° 55'.00 S 151° 21'.52 E

23° 57'.43 S 151° 30'.18 E.

Special buoys exist in positions 23° 48'.21 S 151° 12'.52 E and 23° 52'.04 S 151° 24'.38 E.

Chart temporarily affected - Aus 245 - Aus 246 - Aus 819

636(T)/2014 AUSTRALIA - QUEENSLAND - Hay Point - Racon non operational

Maritime Safety Queensland Notice 263(T)/2014 (AA752438)

The racon at light beacon, *Fl.R.4s* (21° 14'.93 S 149° 24'.77 E), is non operational.

Chart temporarily affected - Aus 249 - Aus 823 - AX 00249S - AX 00823S

690(T)/2014 AUSTRALIA - QUEENSLAND - Great Keppel Island - Wreck

Maritime Safety Queensland Notice 417(T)/2014 (AA755150)

An underwater wreck exists in position 23° 09'.58 S 151° 01'.94 E.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 247 - Aus 490 - Aus 819 - Aus 820 - AX 00367S

737(T)/2014 AUSTRALIA - QUEENSLAND - Mackay - Round Top Island to Slade Point - Scientific instruments

Maritime Safety Queensland Notice 420(T)/2014 (AA757024)

Scientific instruments marked by special light buoys, *Fl.4s*, exist in the following positions:

21° 03'.90 S 149° 13'.96 E

21° 04'.82 S 149° 16'.07 E

21° 05'.60 S 149° 14'.59 E

21° 09'.92 S 149° 14'.36 E

21° 10'.10 S 149° 15'.72 E

21° 10'.69 S 149° 18'.07 E.

Chart temporarily affected - Aus 249 - Aus 250 - Aus 823 - Aus 824 - AX 00249S - AX 00823S

740(T)/2014 AUSTRALIA - QUEENSLAND - Moreton Bay - Coochiemudlo Island - Wreck

Maritime Safety Queensland Notice 432(T)/2014 (AA756976)

A stranded wreck marked by a special light buoy, *Fl.Y.2-5s*, exists in position 27° 33'.94 S 153° 20'.40 E.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 236

785(T)/2014 AUSTRALIA - QUEENSLAND - Moreton Bay - Rous Channel - Shoaling

Maritime Safety Queensland Notice 476(T)/2014 (AA759701)

Shoaling (depths less than 0.5m) exists within Rous Channel between No1 light buoy (27° 22'.74 S 153° 25'.89 E) and No9 light buoy (27° 23'.09 S 153° 23'.91 E).

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 236

786(T)/2014 AUSTRALIA - QUEENSLAND - Moreton Bay - North West Channel - Scientific instruments

Date - Until 28 July 2015

Maritime Safety Queensland Notice 418(T)/2014 (AA760189)

Subsurface scientific instruments exist on the seabed in positions 26° 53'.14 S 153° 10'.55 E and 26° 52'.98 S 153° 10'.47 E.

Chart temporarily affected - Aus 235 - Aus 815

912(T)/2014 AUSTRALIA - QUEENSLAND - Cape Bowling Green - Light buoy off station eastwards

Former Notice - 866(T)/2014 is cancelled

Australian Institute of Marine Science (AA764057, AA766111)

The isolated danger light buoy, *Fl(2)5s* (19° 18'.12 S 147° 37'.05 E), is off station; a special pillar light buoy, *Fl(2)5s*, exists in situ.

Chart temporarily affected - Aus 826 - Aus 827

924(T)/2014 AUSTRALIA - QUEENSLAND - Townsville - Ross River - Harbour works; dredging operations

Former Notice - 742(T)/2014 is cancelled

Date - Until 10 December 2014

Maritime Safety Queensland Notices 422(T)/2014, 447(T)/2014, 449(T)/2014, 547(T)/2014 (AA756977, AA757509, AA757550, AA766705)

Harbour works associated with the construction of boat ramps and pontoons are in progress in the vicinity of position 19° 16'.48 S 146° 49'.86 E.

A silt curtain marked by lights, *Fl.Y.4s*, exists around the works.

The dredge *Everglade* is conducting dredging operations in the area between positions 19° 16'.15 S 146° 50'.14 E and 19° 16'.95 S 146° 49'.53 E.

Anchoring and mooring is prohibited in this area.

A combination of floating, partially submerged and submerged pipeline exist in the area. The submerged pipeline is marked by special light buoys, *Fl.Y.2-5s*, established either side of the channel crossings indicating the safe channel.. The partially submerged pipeline is marked by special light buoys, *Fl.Y.2-4s*. The floating pipeline is marked by special lights, *Fl.Y.4s*.

The dredge will display appropriate lights and shapes.

Vessels will monitor VHF Ch 12 and Ch 16..

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 257

925(T)/2014 AUSTRALIA - QUEENSLAND - Townsville - Wreck; light buoy

Maritime Safety Queensland Notice 555(T)/2014 (AA766840)

A dangerous wreck marked by a special light buoy, *Fl.Y.2-5s*, exists in position 19° 14'.67 S 146° 49'.60 E.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 257

968(T)/2014 AUSTRALIA - QUEENSLAND - Karumba - Depth information

Former Notice - 583(T)/2014 is cancelled

Maritime Safety Queensland Notice 583(T)/2014 (AA769683)

Available depths as at 8 October 2014:

<i>Berth</i>	<i>Metres</i>
* Entrance Channel	3.4
Mobil/Trinity Wharf	6.3
Raptis Wharf	5.3
Ruby Marine Wharf	5.3
Gulf Freight Services Wharf	6.2
Karumba Cold Stores Wharf	6.2
Seaswift/Shell Wharf	6.2
Karumba Livestock Loading Wharf	5.4
Gulf Freight Services Ramp/Wharf	4.6
Pasminco Export Wharf	4.2
* Indicates revised entry.	

Chart temporarily affected - Aus 6

973(T)/2014 AUSTRALIA - TORRES STRAIT - Darnley Island - Wreck

Maritime Safety Queensland Notice 571(T)/2014 (AA769330)

A stranded wreck exists in position 9° 35'.54 S 143° 47'.00 E.

Chart temporarily affected - Aus 376 - Aus 377 - Aus 840

1021(T)/2014 AUSTRALIA - QUEENSLAND - Mackay - Depth information

Former Notice - 783(T)/2014 is cancelled

Maritime Safety Queensland Notice 590(T)/2014 (AA770351)

Available depths as at 13 October 2014:

<i>Remarks</i>	<i>Metres</i>
* Entrance Channel	8.5
Swing Basin	8.5
Berth No 1	11.1
Berth No 3	12.9
Berth No 3 & 4 composite	12.9
Berth No 4	11.0
Berth No 5	12.2
* Indicates revised entry.	

Chart temporarily affected - Aus 250

1025(T)/2014 AUSTRALIA - QUEENSLAND - Moreton Bay - Main Channel - Light beacon destroyed

Maritime Safety Queensland Notice 598(T)/2014 (AA771674)

The starboard lateral light beacon, *Fl.G.1-5s* (27° 03'.43 S 153° 17'.67 E) has been destroyed; a starboard lateral light buoy, *Q.G.*, exists in situ.

Chart temporarily affected - Aus 235 - Aus 236

1030(T)/2014 AUSTRALIA - TORRES STRAIT - Madge Reef - Light beacon destroyed

Maritime Safety Queensland Notice 588(T)/2014 (AA770851, AA770852)

The port lateral light beacon, *Fl.R.2-5s* (10° 35'.34 S 142° 14'.18 E), has been destroyed.

A port lateral light buoy, *Fl.R.2-5s*, exists in position 10° 35'.35 S 142° 14'.14 E.

Chart temporarily affected - Aus 293 - Aus 299

1067(T)/2014 AUSTRALIA - QUEENSLAND - Abbot Point - Depth information

Maritime Safety Queensland Notice 623(T)/2014 (AA773478)

Available depths as at 29 October 2014:

	<i>Metres</i>
* Departure Channel	17.2
* Berth 1	19.0
* Berth 2	19.5
* Indicates new or revised entry.	

Chart temporarily affected - Aus 255

1068(T)/2014 AUSTRALIA - QUEENSLAND - Cairns - Depth information

Former Notice - 1018(T)/2014 is cancelled

Maritime Safety Queensland Notice 603(T)/2014 (AA771737)

Available depths as of 21 October 2014:

	<i>Metres</i>	<i>Remarks</i>
Entrance Channel	8.5	
* Inner Harbour Beacon C20 - Swing Basin	8.5	
Crystal Swing Basin at:		
* 300 metre diameter	8.0	
* 360 metre diameter	7.1	
380 metre diameter	6.4	
Swing Basin at:		
310 metre diameter	8.7	
320 metre diameter	7.8	
Marlin Marina	4.2	
<i>Berths:</i>		

No 1	8.4	
No 2	8.5	
No 3	8.4	
No 4	8.4	
No 5	8.2	
No 6	8.1	between 500 metres and 550 metres
No 6	7.7	between 550 metres and 600 metres
No 7	9.9	
No 8	10.0	
No 10	9.3	
No 12	10.5	
Smiths Creek 1	4.7	

* Indicates new or revised entry.

Chart temporarily affected - Aus 262 - Aus 263 - Aus 264 - Aus 830 - AX 00262T - AXA 0830T

1072(T)/2014 AUSTRALIA - QUEENSLAND - Magnetic Island - Scientific instrument

Maritime Safety Queensland Notice 634(T)/2014 (AA774860)

A scientific instrument marked by a special light buoy, *Fl.Y.4s*, exists in position 19° 08.10 S 146° 56'.20 E.

Chart temporarily affected - Aus 256

1132(T)/2014 AUSTRALIA - QUEENSLAND - Fraser Island - Rooney Point - Wreck

Maritime Safety Queensland Notice 659(T)/2014 (AA777630)

A wreck exists in position 24° 49'.31 S 153° 08'.19 E.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 816 - Aus 817

1133(T)/2014 AUSTRALIA - QUEENSLAND - Hook Island - Light beacon unlit

Maritime Safety Queensland Notice 606(T)/2014 (AA776200)

The south cardinal light beacon, *Q(6)+LFl.15s* (20° 10'.83 S 148° 56'.02 E), is unlit.

Chart temporarily affected - Aus 252 - Aus 824 - Aus 825

1182(T)/2014 AUSTRALIA - QUEENSLAND - Hinchinbrook Channel - Light buoy withdrawn

Maritime Safety Queensland Notice 678(T)/2014 (AA779328)

No17 starboard lateral light buoy, *Fl.G.2·5s* (18° 30'.05 S 146° 18'.65 E), has been temporarily withdrawn.

Chart temporarily affected - Aus 259 - Aus 267

1188(T)/2014 AUSTRALIA - QUEENSLAND - Thursday Island - Light unlit; light beacon unlit

Maritime Safety Queensland Notice 687(T)/2014 (AA779754)

The light, *F.WRG* (10° 34'.70 S 142° 12'.46 E), is unlit.

The light beacon, *Q.Y & Fl.G.2·5s* (10° 35'.71 S 142° 13'.23 E), is unlit.

Chart temporarily affected - Aus 293 - Aus 299

1232(T)/2014 AUSTRALIA - QUEENSLAND - Gladstone - Anchorage area

Former Notice - 418(T)/2011 is cancelled

Maritime Safety Queensland Notice 318(T)/2011 (AA526389)

A small craft anchorage exists within an area bounded by the following positions:

23° 45'.0 S 151° 09'.8 E
 23° 45'.0 S 151° 10'.0 E
 23° 46'.4 S 151° 10'.4 E
 23° 46'.4 S 151° 10'.0 E.

Mooring buoys exist within the area.

Permission must be obtained from Gladstone Port Corporation prior to anchoring or mooring within the area.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 245 - Aus 272

1233(T)/2014 AUSTRALIA - QUEENSLAND - Gladstone - North Passage Island to Redcliffe Island - Scientific instruments

Former Notice - 470(T)/2011 is cancelled

Maritime Safety Queensland Notice 376(T)/2011 (AA531285)

Subsurface scientific instruments exist in positions:

23° 45'.91 S 151° 10'.93 E

23° 45'.81 S 151° 11'.11 E

23° 45'.33 S 151° 10'.48 E

23° 45'.23 S 151° 10'.66 E

23° 42'.44 S 151° 08'.84 E

23° 42'.34 S 151° 09'.05 E

23° 41'.39 S 151° 08'.20 E

23° 41'.29 S 151° 08'.41 E.

Chart temporarily affected - Aus 245 - Aus 272 - Aus 819

1234(T)/2014 AUSTRALIA - QUEENSLAND - Hay Point - Depth information

Former Notice - 691(T)/2014 is cancelled

Maritime Safety Queensland Notices 709(T)/2014 (AA781401)

Available depths as at 10 December 2014:

	<i>Metres</i>	<i>Remarks</i>
Entrance Channel	14.7	Between No 4 beacon and the northern end.
	15.0	Seaward of beacon No 4.
HPS Berth No 1	16.4	
HPS Berth No 2	16.8	
* HPS Berth No 3	18.3	
DBCT Berth No 1	17.8	
DBCT Berth No 2	17.7	
DBCT Berth No 3	17.5	
DBCT Berth No 4	17.4	
Tug Harbour entrance channel	5.1	Lesser depths exist close to the outer edges of the channel and around tug berths and piers.

* Indicates revised entry.

Lesser depth exist in an area south of Hay Point No 1 berth out to approximately 100m east northeast from the seaward edge of berth No 3 and leading southward to the southwest corner of the channel

Chart temporarily affected - Aus 249 - Aus 250 - AX 00249S

1237(T)/2014 AUSTRALIA - QUEENSLAND - Port Denison - Light buoy unlit

Maritime Safety Queensland Notice 704(T)/2014 (AA781403)

The starboard lateral light buoy, *Fl.G.4s M5* (20° 02'.36 S 148° 15'.77 E), is unlit.

Chart temporarily affected - Aus 268

51(T)/2015 AUSTRALIA - QUEENSLAND - Jacobs Channel - Light beacon damaged; light buoy established

Maritime Safety Queensland Notice 727(T)/2014 (AA783319)

JC4 port lateral light beacon, *Fl.R.2.5s*, (23°47'.54 S 151°12'.30 E) has been damaged; a light buoy, *Fl.R.2.5s*, exists in situ.

Chart temporarily affected - Aus 245 - Aus 271

130(T)/2015 AUSTRALIA - QUEENSLAND - Airlie Beach - Muddy Bay - Wreck; light buoy

Maritime Safety Queensland Notice 026(T)/2015 (AA788677)

A dangerous wreck marked by a special light buoy, *Fl.Y.3s*, exists in position 20° 15'.98 S 148° 43'.76 E.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 253 - Aus 268

131(T)/2015 AUSTRALIA - QUEENSLAND - Brisbane River - Hamilton Reach to South Brisbane Reach - Harbour works

Former Notice - 1016(T)/2014 is cancelled

Date - Until 30 June 2015

Maritime Safety Queensland Notice 23(T)/2015 (AA788676)

Construction works at the following City Cat terminals are in progress:

Bretts Wharf	27° 26'.40 S 153° 03'.72 E
Hawthorne	27° 27'.67 S 153° 03'.21 E
Oxford Street	27° 27'.02 S 153° 03'.14 E
Maritime Museum	27° 28'.91 S 153° 01'.70 E
QUT	27° 28'.58 S 153° 01'.50 E
Holman Street	27° 27'.94 S 153° 02'.02 E
North Quay	27° 28'.36 S 153° 01'.35 E
Sydney Street	27° 28'.48 S 153° 02'.54 E

Barges and tugs are on site and will monitor VHF Ch 12, Ch 13 and Ch 16. The areas will be marked by special light buoys.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 236 - Aus 238

133(T)/2015 AUSTRALIA - QUEENSLAND - Hay Point - Scientific instrument

Former Notice - 1069(T)/2014 is cancelled

Maritime Safety Queensland Notices 609(T)/2014 (AA773125)

Scientific instrument marked by special light buoy, *Fl.4s*, exists in position 21° 15'.84 S 149° 18'.11 E.

Chart temporarily affected - Aus 249 - Aus 250 - AX 00249S

135(T)/2015 AUSTRALIA - QUEENSLAND - Hay Point - Moorings

Former Notice - 1180(T)/2014 is cancelled

Date - Until 30 September 2015

Maritime Safety Queensland Notice 19/2015 (AA788151)

Mooring buoys exist in the following positions:

21° 17'.63 S 149° 18'.72 E
21° 17'.63 S 149° 18'.90 E
21° 17'.48 S 149° 18'.97 E
21° 17'.48 S 149° 19'.11 E
21° 17'.47 S 149° 18'.49 E.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 249 - Aus 250 - Aus 823 - AX 00249S - AX 00823S

139(T)/2015 AUSTRALIA - QUEENSLAND - Townsville - Sea Channel - Light beacon destroyed; obstruction

Former Notice - 60(T)/2015 is cancelled

Maritime Safety Queensland Notice 014(T)/2015, 017(T)/2015 (AA786415, AA788672)

The starboard lateral light beacon *S5 Q.G.*, (19° 09'.34 S 146° 52'.88 E), has been destroyed. A virtual AIS, *TSV-SEA CHANNEL S5V* exists in situ.

An obstruction with a least depth of 7.0m exists in position 19° 09'.35 S 146° 52'.88 E

Chart temporarily affected - Aus 256 - Aus 827

183(T)/2015 AUSTRALIA - QUEENSLAND - Gladstone - Drilling operations

Date - Until 30 April 2015

Maritime Safety Queensland Notice 032(T)/2015 (AA789852)

Jack-up barge *Ocean Driller II* and support vessel *Alkira* are conducting drilling operations in Wild Cattle Cutting, Boyne Cutting, Golding Cutting, Gatcombe Channel and the following two areas:

23° 50'.64 S 151° 17'.22 E

23° 50'.88 S 151° 17'.94 E

23° 51'.13 S 151° 17'.83 E

23° 50'.90 S 151° 17'.12 E.

and

23° 51'.95 S 151° 20'.01 E

23° 53'.96 S 151° 22'.20 E

23° 54'.87 S 151° 21'.37 E

23° 52'.32 S 151° 19'.63 E.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 244 - Aus 245 - Aus 246

185(T)/2015 AUSTRALIA - QUEENSLAND - Great Sandy Strait - Urangan - Dredging operations

Date - Until 30 April 2015

Maritime Safety Queensland Notice 016(T)/2015 (AA788148)

The dredge *Ruby K* is conducting dredging operations in the harbour (25° 17'.71 S 152° 54'.63 E).

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 241

186(T)/2015 AUSTRALIA - QUEENSLAND - Hay Point - Light unlit

Maritime Safety Queensland Notice 37/2015 (AA790448)

The front lead light, *F.Bu (F Day)* (21° 17'.57 S 149° 18'.16 E), is unlit.

Chart temporarily affected - Aus 249 - Aus 250 - AX 00249S

188(T)/2015 AUSTRALIA - QUEENSLAND - Moreton Bay - Fison Channel - Dredging operations

Date - Until 30 March 2015

Maritime Safety Queensland Notice 018(T)/2015 (AA787970)

The barges *BSB1* and *Groper* and support vessel *Little Toot* are conducting dredging operations in Fison Channel and Toondah Harbour (27° 32'.25 S 153° 17'.80 E).

The barges will display appropriate lights and shapes and will monitor VHF Ch 13 and 16.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 236

190(T)/2015 AUSTRALIA - QUEENSLAND - Townsville - Ross River - Light buoy withdrawn

Maritime Safety Queensland Notices 035(T)/2015 (AA790169)

The starboard lateral buoy, *Fl.G.2.5s No7* (19° 15'.72 S 146° 50'.49 E), has been temporarily withdrawn.

Chart temporarily affected - Aus 257

191(T)/2015 AUSTRALIA - QUEENSLAND - Wide Bay Harbour - The Bar - Bearing altered

Former Notice - 1139(T)/2014 is cancelled

Maritime Safety Queensland Notice 013/2015 (AA788153)

The bearing of the leads (25° 47'.03 S 153° 04'.74 E) has been amended to 279.5°.

The lead light has been altered to *Fl.WRG.3s (F.Day)*.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 240 - Aus 815 - Aus 817

195(T)/2015 AUSTRALIA - TORRES STRAIT - Channel Rock - Wreck
Maritime Safety Queensland Notice 010(T)/2015 (AA786408)

A wreck 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 293 - Aus 299 - Aus 700

197(T)/2015 AUSTRALIA - TORRES STRAIT - Horn Island - Wreck
Maritime Safety Queensland Notice 009(T)/2015 (AA786406)

A wreck marked by a special light buoy, Q. Y, exists in position 10° 35'.56 S 142° 14'.63 E

Chart temporarily affected - Aus 293 - Aus 299

244(T)/2015 AUSTRALIA - QUEENSLAND - Keppel Isles - Light beacons destroyed
Maritime Safety Queensland Notice 054(T)/2015 (AA793820)

The starboard lateral light beacon, *Fl.G.2-5s* (23° 10'.16 S 150° 55'.53 E) has been destroyed.

The port lateral light beacon, *Fl.R.2-5s* (23° 10'.15 S 150° 55'.72 E) has been destroyed.

The isolated danger light buoy, *Fl(2)6s* (23° 09'.19 S 150° 56'.30 E) has been destroyed.

Chart temporarily affected - Aus 247 - Aus 819 - Aus 820 - AX 00820S

287(T)/2015 AUSTRALIA - QUEENSLAND - Bundaberg - Depth information
Former Notice - 634(T)/2014 is cancelled
Maritime Safety Queensland Notice 063(T)/2015 (AA795440)

Available depths as at 6 March 2015:

	<i>Metres</i>
Sea Reach	8.0
Middle Reach	8.5
* Inner Reach	7.8
Swing Basin	6.8
Oil Berth	8.4
BST Berth	8.9
* Deep draught departure channel	8.3
* Indicates revised entry.	

Chart temporarily affected - Aus 242 - Aus 243

289(T)/2015 AUSTRALIA - QUEENSLAND - Gold Coast - Broadwater - Dredging operations
Former Notice - 132(T)/2015 is cancelled
Maritime Safety Queensland Notice 027(T)/2015, 074(T)/2015 (AA788671, AA796714)

Dredging operations are being conducted between positions 27° 57'.50 S 153° 24'.83 E and 27° 56'.44 S 153° 24'.65 E and in *Ray Newlyn Channel* (27° 57'.35 S 153° 24'.94 E).

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 230 - Aus 814

293(T)/2015 AUSTRALIA - QUEENSLAND - Karumba - Light unlit
Maritime Safety Queensland Notice 065(T)/2015 (AA795642)

The front lead light, (*F Day (occas)*) (17° 26'.81 S 140° 45'.52 E), is unlit.

Chart temporarily affected - Aus 6 - Aus 303

300(T)/2015 AUSTRALIA - QUEENSLAND - Port Alma - Depth information
Former Notice - 210(T)/2013 is cancelled

Available depths as at 27 February 2015:

<i>Berth</i>	<i>Metres</i>
Balaclava Leads	7.5
Kazatch Leads	7.0
Eupatoria Leads	7.7
* Shell Point Leads	6.5
Swing Basin	5.6
* Berth No 1	8.4
* Berth No 2	8.3
* Berth No 3	8.2
* Indicates revised entry.	

Chart temporarily affected - Aus 265

301(T)/2015 AUSTRALIA - QUEENSLAND - Port Alma - Sea Reach - Buoy

Former Notice - 54(T)/2015 is cancelled

Maritime Safety Queensland Notice 066(T)/2015 (AA795637)

Port lateral light buoy, *Fl.R.2-5s no12*, (23° 32'.50 S 150° 55'.49 E) is off station. A special buoy exists in situ.

Chart temporarily affected - Aus 247 - Aus 265

302(T)/2015 AUSTRALIA - QUEENSLAND - Rossllyn Bay - Light beacons

Maritime Safety Queensland Notice 060(T)/2015 (AA794721)

Starboard lateral light beacons *Fl.G.4s* (23° 09'.55 S 150° 47'.26 E) and *Fl.G.6s* (23° 09'.54 S 150° 47'.11 E) have been destroyed.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 247

303(T)/2015 AUSTRALIA - QUEENSLAND - Shoalwater Bay - Live firing

Date - Until 3 April 2015

Maritime Safety Queensland Notice 072(T)/2015 (AA796713)

Live firing will be conducted in the Shoalwater Bay training area during the period 21 March to 2 April 2015.

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

22° 35'.87 S 150° 28'.80 E
22° 31'.72 S 150° 28'.41 E
22° 38'.07 S 150° 34'.01 E
22° 38'.18 S 150° 43'.15 E
22° 40'.00 S 150° 38'.80 E
22° 35'.87 S 150° 28'.80 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 490 - Aus 820 - Aus 822 - AX 00367S - AX 00820S - AX 00822S

365(T)/2015 AUSTRALIA - QUEENSLAND - Gladstone - Depth information

Maritime Safety Queensland Notice 086(T)/2015 (AA799379)

Available depths as at 20 March 2015:

	<i>Metres</i>
<i>Sea Channels:</i>	
Wild Cattle Cutting	16.1
Boyne Island Cutting	16.3
Boyne Island Extension Channel	9.0
Golding Cutting	16.1
* South Bypass Channel	6.8
Gatcombe Channel	16.3

Gatcombe Bypass Channel	13.4
Inner Channels:	
Auckland Channel	15.8
* Auckland Bypass Channel	6.9
Clinton Channel	16.0
* Clinton Bypass Channel	13.0
* Clinton Swing Basin	11.1
* WICET Departure Channel	15.7
* WICET Swing Basin	12.1
* Jacobs Channel	13.0
* Targinie Channel	10.6
* Targinie Swing Basin East	10.8
* Targinie Swing Basin West	9.0
* GLNG Swing Basin	13.0
* QCLNG Swing Basin	13.0
* APLNG Swing Basin	13.0
<i>Berths:</i>	
Boyne Smelter Wharf	15.0
* South Trees East Wharf	13.4
* South Trees West Wharf	13.3
Barney Point Wharf	(east approach) 13.5
Barney Point Wharf	(west approach) 11.5
Barney Point Wharf	15.0
* Auckland Point No 1 Wharf	11.1
* Auckland Point No 2 Wharf	11.1
* Auckland Point No 3 Wharf	11.2
Auckland Point No 4 Wharf	11.3
* Clinton No 1 Wharf	18.8
* Clinton No 2 Wharf	19.1
* Clinton No 3 Wharf	19.3
Clinton No 4 Wharf	19.1
* WICET Wharf	18.8
* Fishermans Landing Wharf No 1	13.1
* Fishermans Landing Wharf No 2	13.0
* Fishermans Landing Wharf No 4	11.2
* Fishermans Landing Wharf No 5	11.2
* GLNG Export Wharf	13.0
* QCLNG Export Wharf	13.4
* APLNG Export Wharf	12.9
* Indicates revised entry.	

Chart temporarily affected - Aus 244 - Aus 245 - Aus 246 - Aus 271 - Aus 272

370(T)/2015 AUSTRALIA - QUEENSLAND - Kent Island - Light range reduced
 AMSA AUSCOAST 83/2015 (AA799633)

The light, (17° 40'.55 S 146° 10'.82 E), has been altered to *Fl.5s 91m 8M*. The light is partly obscured to the south.

Chart temporarily affected - Aus 258 - Aus 829

376(T)/2015 AUSTRALIA - QUEENSLAND - Red Island Point - Light buoys unlit
 Maritime Safety Queensland Notice 082(T)/2015 (AA799384)

The following light buoys are unlit:

<i>Position</i>	<i>Remarks</i>
10° 49'.71 S 142° 21'.37 E	<i>Fl.R 2.5s No2</i>
10° 50'.05 S 142° 22'.24 E	<i>Fl.R 2.5s No4</i>
10° 50'.31 S 142° 22'.24 E	<i>Fl.R 2.5s No6</i>

Chart temporarily affected - Aus 294

380(T)/2015 AUSTRALIA - QUEENSLAND - Townsville - Depth information
Former Notice - 140(T)/2015 is cancelled
 Maritime Safety Queensland Notice 084(T)/2015 (AA799382)

Available depths as at 20 March 2015:

<i>Metres</i>	<i>Remarks</i>
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Sea Channel	11.9	
Platypus Channel	11.9	
<i>Outer Harbour:</i>		
Arrival Channel	6.1	
* Departure Channel	9.5	
<i>Inner Harbour:</i>		
Harbour	11.1	
<i>Berths:</i>		
* No 1	12.5	
* No 2	12.5	
No 3	12.0	
* No 4	10.9	
No 7	11.0	
Between No 7 and No 8	12.4	Seaward of 0 mark at No 7
* No 8	13.2	
* No 9	11.5	
* Between No 9 and No 10	8.3	Seaward of 0 mark at No 10
* No 10	11.0	
No 11	11.0	
Ross River Channel	2.2	Entrance to beacon No 6
Ross River	-	Upstream of beacon No 6
Ross Creek	-	
* Indicates new or revised entry.		

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

426(T)/2015 AUSTRALIA - QUEENSLAND - Moreton Bay - Manly - Beacon destroyed; light buoy established Maritime Safety Queensland Notice95(T)/2015 (AA800352)

The starboard lateral light beacon, *Fl.G.3s*, (27° 26'.71 S 153° 12'.25 E) has been destroyed; a starboard lateral light buoy, *Q.G*, exists in situ.

Chart temporarily affected - Aus 236

427(T)/2015 AUSTRALIA - QUEENSLAND - Moreton Bay - Brisbane River - Depth information

Former Notice - 371(T)/2015 is cancelled
Brisbane Port Corporation (AA800284)

Available depths and under keel clearances (UKC) at 26 March 2015:

<i>Berth</i>	<i>Metres</i>	<i>Remarks</i>
Fisherman Islands No12	13.6	
Fisherman Islands No11	14.0	
Fisherman Islands No10	14.0	
Fisherman Islands No9	14.0	
Fisherman Islands No8	13.9	
Fisherman Islands No7	14.0	
Fisherman Islands No6	13.8	
Fisherman Islands No5	13.5	
Fisherman Islands No4	14.1	
Fisherman Islands No3	14.1	
Fisherman Islands No2	14.1	
Fisherman Islands No1	14.0	
Fisherman Islands Grain and Woodchip	12.9	
Caltex Fisherman Islands	14.2	
Fisherman Islands Coal	14.0	
Fisherman Islands General Purpose	11.5	
* BP Luggage Point	13.9	
Caltex Products	10.3	
* Cement Australia Co Wharf	9.5	
BP Products	10.4	
Viva Energy	10.2	
Graincorp Liquid Terminal	10.3	
Incitec North	10.0	
* Incitec South	10.4	
* Pinkenba 1	9.9	
* Pinkenba 2	9.9	
Riverside Marina	-	
Sugar Terminal	9.9	
Cairncross Fitting Out Wharf	7.1	
Cairncross Breasting Wharf	4.4	

Brisbane Naval Wharf	4.3
Maritime No1	8.6
Hamilton No4	10.1
* Hamilton No1	8.8
* Brisbane Cruise Ship Terminal	8.9

	<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)
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
Fisherman Islands Swing Basin (11.5)	11.5	0.6
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	9.0	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

428(T)/2015 AUSTRALIA - QUEENSLAND - Moreton Bay - Caloundra to Mud Island - AIS trial

Former Notice - 245(T)/2015 is cancelled

Date - Until 30 April 2016

Maritime Safety Queensland Notice 099(T)/2015 (AA801790)

Virtual and physical AIS units exist as follows:

<i>Position</i>	<i>Remarks</i>	<i>Type</i>
26° 48'.72 S 153° 10'.62 E	Safe water mark	Physical
26° 49'.84 S 153° 08'.97 E	Special mark	Physical
27° 03'.42 S 153° 17'.67 E	Starboard lateral mark	Physical
27° 05'.88 S 153° 19'.37 E	Port lateral mark	Virtual
27° 17'.43 S 153° 13'.38 E	Safe water mark	Virtual

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

429(T)/2015 AUSTRALIA - QUEENSLAND - Rattlesnake Island - Live firing

Date - Until 25 April 2015

Maritime Safety Queensland Notice 094(T)/2015 (AA800351)

Live firing activities will be conducted within a 5M radius of position 19° 02'.45 S 146° 36'.72 E from 7 April to 24 April 2015.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 256 - Aus 827

430(T)/2015 AUSTRALIA - QUEENSLAND - Townsville - Harbour works

Maritime Safety Queensland Notice 101(T)/2015 (AA801792)

Harbour works associated with the demolition of berth 7 (19° 15'.10 S 146° 50'.01 E) are in progress.

Vessels will monitor VHF channels 12 and 16.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 257

431(P)/2015 AUSTRALIA - QUEENSLAND - Urchin Shoal - Light buoy to be established

Date - On or about 14 April 2015
AMSA Preliminary ATH 08/2015 (AA801290)

A port lateral light buoy, *Fl.R.5s*, with topmark, will be established in position 18° 20'.56 S 147° 05'.05 E.

Chart which will be affected - Aus 828

NORTHERN TERRITORY

223(T)/2009 AUSTRALIA - TIMOR SEA - Sahul Banks - Navaid; racon non operational

Former Notice - 671(T)/2008 is cancelled

Modec Management Services (AA384494)

A lit riser turret mooring exists in position 10° 52'.50 S 126° 34'.19 E. The racon is non operational.

Chart temporarily affected - Aus 312 - Aus 4721 (INT 721) - AX 0312F - AX 4721F

910(T)/2012 AUSTRALIA - NORTHERN TERRITORY - Darwin - Cossack Creek - Obstruction

Darwin Port Corporation Notice 103/2012 (AA622006)

An obstruction exists in position 12° 31'.37 S 130 54'.08 E.

Chart temporarily affected - Aus 28

919(T)/2013 AUSTRALIA - NORTHERN TERRITORY - Darwin - Weed Reef to Elizabeth River - Scientific instruments

Former Notices - 410(T)/2013, 654(T)/2013 are cancelled

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

Special spar light buoys, *Fl.Y.4s*, exist in the following positions:

12° 29'.39 S 130° 48'.12 E.

12° 29'.84 S 130° 52'.40 E

12° 30'.19 S 130° 53'.85 E

12° 32'.88 S 130° 50'.75 E.

Special conical light buoys, *Fl.Y.6s*, exist in the following positions:

12° 29'.82 S 130° 53'.10 E

12° 29'.94 S 130° 52'.46 E

12° 31'.77 S 130° 56'.14 E

12° 32'.91 S 130° 52'.51 E.

Chart temporarily affected - Aus 24 - Aus 26 - Aus 27 - Aus 28 - AX 00026T

712(T)/2014 INDIAN OCEAN - Christmas Island - Flying Fish Cove - Harbour works

Date - Until 30 June 2015

Patrick Ports (AA755154)

Harbour works associated with the extension of the wharf are in progress between positions 10° 25'.75 S 105° 40'.17 E and 10° 25'.73 S 105° 40'.15 E

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 920

789(T)/2014 AUSTRALIA - NORTHERN TERRITORY - Darwin - Depth information

Former Notice - 1004(T)/2012 is cancelled

Darwin Port Corporation Notice 114/2012 (AA759161)

Available depths as at 6 August 2014:

<i>Berths</i>	<i>Metres</i>
* DLNG	14.2 (12.1 in Turning Basin)
* East Arm 0-100m	10.5
* East Arm 100-200m	12.0
* East Arm 200-300m	12.5
* East Arm 300-400m	12.5
* East Arm 400-500m	11.8
* East Arm 500-600m	13.5
* East Arm 600-700m	11.7
* Bulk Solids Wharf	12.5
* Bulk Liquids Wharf 600-700m	11.7
* Bulk Liquids Wharf 700-800m	11.5
* Bulk Liquids Wharf 800-865m	11.4
* No 2 Fort Hill East	10.3

* No 2 Fort Hill West	10.6
* No 3 Stokes Hill East	4.8
* No 3 Stokes Hill West	4.6
* No 4 Stokes Hill East	1.8
No 4 Stokes Hill Middle	0.8
* No 4 Stokes Hill West	4.0
* Fishermans Wharf East	1.9
* Fishermans Wharf West 100-180m	1.6
* Fishermans Wharf West 180-199m	0.9
* Toll International	-0.7
* Toll Domestic	-1.8
* Frances Bay Marina approach channel	-0.8
* Marine Supply Base Channel	7.5
* Marine Supply Base 0-110m	8.4
* Marine Supply Base 110-280m	7.5
* Module Offloading Facility Channel	2.7
* Module Offloading Facility North	7.0
* Module Offloading Facility East	8.5
* Module Offloading Facility South	7.0
* Indicates new or revised entry.	

Chart temporarily affected - Aus 24 - Aus 27 - Aus 28

790(T)/2014 AUSTRALIA - NORTHERN TERRITORY - Darwin - East Arm - Bladin Point - Harbour works

Former Notice - 697(T)/2014 is cancelled

Darwin Port Corporation Notice 98(T)/2014 (AA754265)

Works associated with the construction of the product loading jetty are in progress in an area bounded by the following positions:

12° 30'.51 S 130° 54'.25 E
12° 30'.38 S 130° 55'.11 E
12° 30'.57 S 130° 55'.28 E
12° 30'.90 S 130° 54'.64 E
12° 30'.66 S 130° 54'.26 E.

Mariners are advised to navigate with caution in the area.

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

1038(T)/2014 INDIAN OCEAN - Mid-Indian Ocean Basin - Light buoy off station

Former Notice - 801(T)/2014 is cancelled

Australian Bureau of Meteorology (AA770345)

The light buoy (13° 59'.0 S 110° 00'.0 E) is drifting and currently in position 12° 52'.52 S 77° 37'.82 E (13 October 2014).

Chart temporarily affected - Aus 4708 (INT 708) - Aus 4714 (INT 714) - Aus 4723 (INT 723) - AX 04708U - AX 04714U - AX 04723U

1193(T)/2014 AUSTRALIA - NORTHERN TERRITORY - East Vernon Island - Obstruction

Department of Transport NT (AA777840)

An obstruction exists in position 12° 04'.07 S 131° 03'.48 E.

Chart temporarily affected - Aus 20

72(T)/2015 AUSTRALIA - NORTHERN TERRITORY - WESTERN AUSTRALIA - Darwin to Browse Island - Pipeline

Former Notice - 1081(T)/2014 is cancelled

Date - Until 30 November 2015

Saipem (AA784823)

PLV *Castorone* with support vessels, *Go Explorer*, *West Sea Ticpet* and *Ocean Turquoise* will continue pipe laying operations from February 2015 between the following positions:

12° 29'.98 S 129° 29'.92 E
12° 31'.48 S 128° 06'.11 E
12° 47'.94 S 126° 23'.94 E
12° 45'.62 S 126° 11'.99 E
12° 48'.74 S 126° 00'.04 E

13° 35'.07 S 124° 22'.68 E
13° 45'.24 S 123° 54'.68 E
13° 58'.98 S 123° 41'.67 E
13° 59'.54 S 123° 40'.49 E
13° 59'.33 S 123° 38'.49 E
13° 53'.21 S 123° 21'.21 E
13° 53'.55 S 123° 19'.25 E
13° 55'.96 S 123° 17'.89 E.

Mariners are advised to navigate with caution in the area.

A pipeline exists between:

12° 32'.15 S 130° 52'.52 E
12° 31'.99 S 130° 50'.66 E
12° 31'.83 S 130° 50'.19 E
12° 31'.51 S 130° 49'.86 E
12° 28'.02 S 130° 48'.14 E
12° 23'.86 S 130° 44'.83 E
12° 20'.82 S 130° 40'.97 E
12° 18'.44 S 130° 35'.66 E
12° 17'.69 S 130° 32'.97 E
12° 17'.26 S 130° 26'.54 E
12° 18'.46 S 130° 12'.03 E
12° 29'.98 S 129° 29'.92 E.

Navigation products are being progressively updated.

Chart temporarily affected - Aus 24 - Aus 26 - Aus 27 - Aus 29 - Aus 309 - Aus 314 - Aus 315 - Aus 316 - Aus 318 - Aus 319 - Aus 320 - Aus 722 - Aus 728 - Aus 4721 (INT 721) - Aus 4722 (INT 722) - AX 00026T - AX 00309U - AX 00309T - AX 00314U - AX 00315U - AX 00319U - AX 00722T - AX 04721U - AX 04722U

143(T)/2015 AUSTRALIA - NORTHERN TERRITORY - Darwin - Middle Ground - Obstruction

Darwin Port Corporation Notice 75(T)/2013 (AA670992, AA788527)

An obstruction exists within a 50m radius of position 12° 23'.75 S 130° 46'.43 E.

Mariners are advised not to anchor within the area.

Chart temporarily affected - Aus 26 - AX 00026T

144(T)/2015 AUSTRALIA - NORTHERN TERRITORY - Darwin - Preston Point - Scientific instruments

Darwin Port Corporation Notice 236(T)/2013 (AA715149, AA788527)

Scientific instruments marked by special spar light buoys, Q.Y, exist in positions 12° 30'.52 S 130° 53'.22 E and 12° 30'.29 S 130° 55'.03 E.

Chart temporarily affected - Aus 28

145(T)/2015 AUSTRALIA - NORTHERN TERRITORY - Darwin - Cullen Bay - Light altered

Darwin Port Corporation Notice 12(T)/2014 (AA721033, AA788527)

The light (12° 27'.05 S 130° 49'.15 E) has been temporarily altered to F.

Chart temporarily affected - Aus 24

201(T)/2015 AUSTRALIA - NORTHERN TERRITORY - Darwin - East Arm - Light beacon established

Darwin Port Corporation Notice 017(T)/2015 (AA789825)

A port lateral light beacon, Q B02, has been established in position 12°30'.01 S 130°53'.11 E.

Chart temporarily affected - Aus 28

203(T)/2015 AUSTRALIA - TIMOR SEA - Sahul Banks - Scientific instruments

Former Notice - 756(T)/2014 is cancelled

Date - Until 31 July 2015

MetOcean Engineers (AA791260)

Scientific instruments exist as follows:

<i>Position</i>	<i>Remarks</i>
11° 57'.79 S 124° 39'.18 E	special pillar light buoy, Q(5)Y.20s
11° 57'.79 S 124° 39'.71 E	orange spherical light buoy, Q(5)Y.20s
11° 57'.23 S 124° 39'.72 E	special spar light buoy, Q(5)Y.20s, 5 poly floats
11° 57'.23 S 124° 40'.28 E	orange spherical light buoy, Q(5)Y.20s
11° 57'.24 S 124° 39'.16 E	15m subsurface
11° 57'.67 S 124° 40'.27 E	seabed

Chart temporarily affected - Aus 314 - AX 00314U

437(T)/2015 AUSTRALIA - NORTHERN TERRITORY - Evans Shoal - Scientific instruments eastwards

Former Notice - 698(T)/2014 is cancelled

Date - Until 31 July 2015

Fugro Survey Pty Ltd (AA801823)

Subsurface scientific instruments exist as follows:

	<i>Position</i>	<i>Remarks</i>
CP1	9° 48'.84 S 130° 18'.24 E	subsurface
CP2	9° 51'.90 S 129° 38'.64 E	subsurface
CP4	11° 42'.30 S 129° 55'.92 E	subsurface
CP5	10° 43'.44 S 130° 16'.20 E	subsurface
M1	9° 49'.14 S 130° 18'.72 E	special light buoy, Fl(5)Y.20s
W1	9° 49'.14 S 130° 17'.76 E	special light buoy, Fl(5)Y.20s
J1	9° 56'.34 S 129° 47'.70 E	subsurface
J2	9° 50'.10 S 130° 17'.46 E	subsurface
J3	10° 05'.64 S 130° 05'.76 E.	subsurface

Chart temporarily affected - Aus 309 - Aus 310 - Aus 722 - AX 00309T - AX 00309U - AX 00310U - AX 00722T

454(T)/2015 INDIAN OCEAN - Sumatera - Scientific instruments westwards

Former Notice - 304(T)/2014 is cancelled

JAMSTEC (AA801793)

Scientific instruments, Triton buoys, exist as follows:

<i>Number</i>	<i>Position</i>
17	4° 57'.05 S 94° 58'.44 E
18	1° 37'.06 S 89° 59'.02 E
19	8° 00'.03 S 95° 02'.41 E.

Chart temporarily affected - Aus 4070 (INT 70) - Aus 4071 (INT 71)

WESTERN AUSTRALIA

1057(T)/2012 AUSTRALIA - WESTERN AUSTRALIA - Fremantle - Depth information

Former Notice - 438(T)/2011 is cancelled

Fremantle Ports Notice 8(T)/2012 (AA630746)

Available depths as at 17 October 2012:

<i>Berth</i>	<i>Metres</i>
No 1	11.0
No 2	11.0
No 4	14.6
No 5	14.6
No 6	14.6
* No 7	14.5
* No 8	14.5
* No 9	14.5
* No 10	14.5
* No 11	10.4
* No 12	10.6
C	10.4
* D	10.4
* E	10.1
* F	10.0
* G	10.2
* H	10.1

* Indicates revised entry.

Maximum draft of vessels using inner harbour berths must be obtained by contacting the Harbour Master's office.

Chart temporarily affected - Aus 113

1108(T)/2012 AUSTRALIA - WESTERN AUSTRALIA - Albany - Harbour works

Date - Until 15 January 2013

Department of Transport WA Notice 103/2012 (AA634951)

Harbour works associated with the construction of a jetty are in progress in the vicinity of position 35° 01'.82 S 117° 53'.22 E.

The area will be marked by special light buoys. All vessels involved in the works will display appropriate lights and shapes and will monitor VHF Ch 16.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 109

228(T)/2013 AUSTRALIA - WESTERN AUSTRALIA - Bunbury - Leschenault Estuary - Shoaling

Former Notice - 1058(T)/2012 is cancelled

Department of Transport WA (AA653972)

Shoaling exists inside the northern groyne of The Cut entrance channel (33° 18'.2 S 115° 40'.3 E).

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 115

271(T)/2013 AUSTRALIA - WESTERN AUSTRALIA - Dampier - Obstruction

Dampier Port Authority Notice 9/2013 (AA655652)

An obstruction exists in position 20° 38'.8 S 116° 32'.2 E.

Chart temporarily affected - Aus 57 - Aus 741 - Aus 742

316(T)/2013 AUSTRALIA - WESTERN AUSTRALIA - Perth - Scientific instruments westwards

Former Notice - 1220(T)/2012 is cancelled

CSIRO (AA661219)

Subsurface scientific instruments, suspended 20m below the surface, exist in positions:

31° 37'.60 S 115° 14'.75 E
31° 38'.80 S 115° 11'.75 E
31° 41'.60 S 115° 07'.00 E
31° 43'.16 S 115° 01'.80 E
31° 46'.23 S 114° 56'.60 E
31° 59'.00 S 115° 14'.00 E
32° 03'.20 S 115° 04'.96 E
32° 00'.00 S 115° 25'.00 E
32° 00'.00 S 115° 24'.16 E.

Chart temporarily affected - Aus 334 - Aus 754 - AX 00334S - AX 00754S - AXA 0754S

425(T)/2013 AUSTRALIA - WESTERN AUSTRALIA - Barrow Island - Anchorage

Former Notice - 175(T)/2013 is cancelled

Department of Transport WA Notice 111/2011 (AA649470)

An anchorage exists in an area bounded by the following positions:

20° 41'.93 S 115° 29'.52 E
20° 41'.93 S 115° 30'.09 E
20° 42'.47 S 115° 30'.09 E
20° 42'.47 S 115° 29'.80 E
20° 42'.20 S 115° 29'.80 E
20° 42'.20 S 115° 29'.51 E.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 62 - Aus 67 - Aus 742

433(T)/2013 AUSTRALIA - WESTERN AUSTRALIA - Geraldton - Depth information

Former Notice - 946(T)/2008 is cancelled

Geraldton Port Authority (AA666328, AA666329)

Available depths as at 31 January 2013:

<i>Berth</i>	<i>Metres</i>
* No 1	9.1
* No 2	9.7
* No 3	12.9
* No 4	12.8
* No 5	13.3
* No 6	12.4
* No 7	13.1
<i>Channel</i>	
Harbour Basin	12.4
* Inside western breakwater beacon 20 to 22	12.6
Beacon 20	13.1
* Beacon 16 to 20	13.2
* Beacon 4 to 14	13.8
* Beacon 2 14.1	
* North Channel over Reef	9.1 in channel
* Indicates new or revised entry	

Chart temporarily affected - Aus 81

486(T)/2013 AUSTRALIA - WESTERN AUSTRALIA - Port Gregory - Shoaling

Department of Transport WA Notice 66/2012 (AA668957)

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

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 84

922(T)/2013 AUSTRALIA - WESTERN AUSTRALIA - Browse Island - Drill rig northwestwards

Date - Until 30 August 2015

MODU *Noble Clyde Boudreaux* (AA693287), Australian Maritime Safety Authority Auscoast Warning 214/2013 (AA693323)

Drill rig *Noble Clyde Boudreaux* is conducting drilling operations in position 13° 49'.01 S 123° 19'.60 E.

Chart temporarily affected - Aus 319 - Aus 320 - Aus 4721 (INT 721) - Aus 4722 (INT 722) - AX 00319U - AX 04721U - AX 04722U

1174(T)/2013 AUSTRALIA - WESTERN AUSTRALIA - Kwinana - Scientific instrument

Date - Until 7 May 2015

Fremantle Ports (AA706386)

A special cylindrical light buoy, *Fl.Y.4s*, exists in position 32° 12'.07 S 115° 46'.20 E.

Chart temporarily affected - Aus 114 - Aus 117 - AX 00117T

283(T)/2014 AUSTRALIA - WESTERN AUSTRALIA - Barrow Island - Scientific instrument

Former Notice - 422(T)/2013 is cancelled

Date - Until 31 January 2015

Department of Transport WA Notice 62/2014 (AA726681)

A special light buoy, *Fl(5)Y.20s*, exists in position 20° 49'.47 S 115° 30'.85 E.

Chart temporarily affected - Aus 62 - Aus 66

300(T)/2014 AUSTRALIA - WESTERN AUSTRALIA - Passage Islands - Obstructions

Former Notice - 472(T)/2012 is cancelled

Date - Until 31 March 2015

Department of Transport WA Notice 53/2012 (AA597010, AA727668)

Obstructions exist in the following positions:

21° 11'.28 S 115° 47'.70 E

21° 07'.76 S 115° 50'.10 E

21° 06'.01 S 115° 46'.93 E

21° 08'.15 S 115° 43'.83 E.

Chart temporarily affected - Aus 743

428(T)/2014 AUSTRALIA - WESTERN AUSTRALIA - Exmouth Plateau - Scientific instruments

Date - Until 30 June 2015

MetOcean Engineers (AA735327), Woodside Energy Ltd (AA735354)

Scientific instruments marked by special light buoys, *Q(5)Y.20s*, exist in positions:

19° 50'.41 S 112° 37'.37 E

19° 50'.06 S 112° 39'.51 E.

A subsurface scientific instrument exists 20 meters below the surface in position 19° 50'.07 S 112° 38'.63 E.

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

504(T)/2014 AUSTRALIA - WESTERN AUSTRALIA - Ashburton Road - Parkes Reef - Scientific instrument

Date - Until 31 July 2015

Department of Transport WA Notice 106/2013 (AA742694), Dredging International (Australia) Pty Ltd (AA743086)

A special spar light buoy, *Fl.Y.6s*, exists in position 21° 40'.61 S 114° 54'.82 E.

Chart temporarily affected - Aus 743 - Aus 744

757(T)/2014 AUSTRALIA - WESTERN AUSTRALIA - Sahul Banks - Pipeline southwards

Date - Until 30 June 2015

ConocoPhillips Australia (AA753842)

Vessels *Seven Eagle* and *Skandi Acergy* are conducting pipe laying operations between the following positions:

11° 00'.13 S 126° 41'.98 E

11° 01'.28 S 126° 40'.84 E

11° 02'.11 S 126° 39'.13 E

11° 02'.82 S 126° 38'.51 E

11° 03'.55 S 126° 37'.00 E

11° 03'.60 S 126° 36'.75 E
 11° 03'.82 S 126° 36'.83 E
 and;
 11° 05'.84 S 126° 45'.10 E
 11° 05'.07 S 126° 44'.69 E
 11° 04'.67 S 126° 42'.06 E
 11° 04'.61 S 126° 41'.40 E
 11° 04'.32 S 126° 40'.79 E
 11° 03'.69 S 126° 40'.01 E
 11° 03'.52 S 126° 38'.48 E
 11° 03'.70 S 126° 37'.45 E
 11° 03'.78 S 126° 37'.37 E
 11° 03'.54 S 126° 37'.16 E
 11° 03'.61 S 126° 36'.76 E
 11° 03'.82 S 126° 36'.83 E.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 312 - AX 00312U

793(T)/2014 AUSTRALIA - WESTERN AUSTRALIA - Esperance - Depth information

Former Notice - 418(T)/2012 is cancelled
 Esperance Ports Sea and Land (AA759973)

Available depths as of 11 August 2014:

<i>Location</i>	<i>Metres</i>
* Berth No 1	14.2
* Berth No 2	13.7
* Berth No 3	19.1
* Swing Basin	14.6
* Entrance Channel	19.4
* Indicates revised entry	

Chart temporarily affected - Aus 119

933(T)/2014 AUSTRALIA - WESTERN AUSTRALIA - Manilya Sandbank - Scientific instrument

Former Notice - 355(T)/2014 is cancelled

Date - Until 30 June 2015

Port Hedland Port Authority Notice 32(T)/2014 (AA729090), Pilbara Ports Authority (AA766880)

A subsurface scientific instrument marked by a special light buoy, *Fl. Y. 2s*, exists in position 20° 08.99 S 118° 38'.23 E.

Chart temporarily affected - Aus 52 - Aus 53

980(T)/2014 AUSTRALIA - WESTERN AUSTRALIA - Cape Preston - Scientific instruments

Department of Transport WA Notice 182/2014 (AA768911)

Special light buoys, *Fl. Y. 5s*, exist in the following positions:

20° 49'.23 S 116° 11'.38 E
 20° 49'.21 S 116° 11'.43 E
 20° 49'.18 S 116° 11'.76 E
 20° 49'.11 S 116° 12'.18 E.

Chart temporarily affected - Aus 68

1031(T)/2014 AUSTRALIA - WESTERN AUSTRALIA - Browse Island - Pipeline operations northwestwards

Date - Until 14 October 2015

Wilhelmsen Ships Service Pty Ltd (AA771437), Australian Maritime Safety Authority Auscoast Warning 228/2014 (AA771438)

DCV *Aegir* and support vessels *Pacific Rover*, *Pacific Responder* and *Pacific Vigour* are conducting pipeline installation works in the vicinity of position 13° 49'.25 S 123° 15'.27 E. A 2M radius clearance is requested around DCV *Aegir*.

Two lit mooring buoys, *Fl. Y. 5s*, exist in positions 14° 01'.19 S 123° 16'.11 E and 14° 01'.19 S 123° 17'.22 E.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 319 - Aus 320 - AX 00319U

1032(T)/2014 AUSTRALIA - WESTERN AUSTRALIA - Dampier - Harbour works

Former Notice - 931(T)/2014 is cancelled

Dampier Port Authority Notice 39/2014 (AA770465)

Harbour works are in progress in an area marked by four special spar light buoys, *Fl.Y.2s*, bounded by the following positions:

20° 36'.76 S 116° 44'.87 E
20° 36'.76 S 116° 45'.00 E
20° 36'.56 S 116° 45'.00 E
20° 36'.56 S 116° 44'.87 E.

An exclusion zone exists in the area.

The dolphin and light, *Fl.R.3s* (20° 36'.73 S 116° 44'.93 E), have been removed.

Barge *Swanfleet* is on site and has deployed 5 anchors marked by special cylindrical buoys, *Fl.Y.2s*.

Special light buoys, *Fl.Y.2s*, exist in positions 20° 36'.68 S 116° 45'.07 E and 20° 36'.75 S 116° 45'.05 E.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 59

1083(T)/2014 AUSTRALIA - WESTERN AUSTRALIA - Barrow Island - Scientific instrument northwestwards

MetOcean Engineers (AA773736)

A scientific instrument marked by a special light buoy, *Q(5)Y.20s*, exists in position 20° 29'.00 S 114° 51'.50 E.

Chart temporarily affected - Aus 328

1087(T)/2014 AUSTRALIA - WESTERN AUSTRALIA - Browse Island - Scientific instruments northwestwards

Date - Until 31 October 2015

MetOcean Engineers (AA773736)

Subsurface scientific instruments exist in the following positions:

13° 39'.63 S 123° 20'.82 E
13° 43'.99 S 123° 20'.40 E
13° 47'.57 S 123° 17'.86 E
13° 48'.66 S 123° 20'.66 E.

Chart temporarily affected - Aus 319 - Aus 320 - AX 00319U

1097(T)/2014 AUSTRALIA - WESTERN AUSTRALIA - Rankin Bank - Scientific instrument northeastwards

Former Notice - 713(T)/2012 is cancelled

MetOcean Engineers (AA773736)

A subsurface scientific instrument exists in position 19° 34'.63 S 116° 08'.94 E.

Chart temporarily affected - Aus 327

1198(T)/2014 AUSTRALIA - WESTERN AUSTRALIA - Port Hedland - Depth information

Former Notice - 1068(T)/2013 is cancelled

Pilbara Ports Authority Notice 79/2014 (AA778365)

Available depths as at 19 November 2014:

<i>Berth</i>	<i>Metres</i>
* PHPA berth 1	13.1
* PHPA berth 2	13.1
PHPA berth 3	13.5
* PHPA berth 4 (Utah Point)	14.6
BHP Billiton Nelson Point berth A	19.2
BHP Billiton Nelson Point berth B	19.0
BHP Billiton Nelson Point berth C	19.1
BHP Billiton Nelson Point berth D	19.0

BHP Billiton Finucane Island berth A	19.2
* BHP Billiton Finucane Island berth B	19.2
* BHP Billiton Finucane Island berth C	18.4
* BHP Billiton Finucane Island berth D	19.2
* Anderson Point berth 1	19.8
Anderson Point berth 2	19.7
Anderson Point berth 3	19.8
* Anderson Point berth 4	19.6
* Indicates new or revised entry.	

Chart temporarily affected - Aus 52 - Aus 54

1200(T)/2014 AUSTRALIA - WESTERN AUSTRALIA - West Reef to Fly Island - Scientific instruments

Former Notice - 985(T)/2014 is cancelled

Date - Until 28 February 2016

Department of Transport WA Notice 183/2014 (AA778591)

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

21° 19'.66 S 115° 23'.45 E
 21° 19'.66 S 115° 09'.50 E
 21° 26'.31 S 114° 54'.14 E
 21° 26'.63 S 115° 10'.98 E
 21° 27'.04 S 115° 02'.00 E
 21° 28'.93 S 115° 01'.54 E
 21° 30'.02 S 114° 50'.23 E
 21° 30'.16 S 114° 55'.44 E
 21° 31'.73 S 114° 46'.25 E
 21° 33'.85 S 115° 00'.45 E
 21° 34'.15 S 115° 03'.42 E
 21° 34'.69 S 114° 54'.30 E
 21° 35'.20 S 114° 56'.38 E
 21° 36'.48 S 115° 04'.31 E
 21° 37'.84 S 114° 41'.51 E
 21° 43'.17 S 114° 46'.17 E.

Chart temporarily affected - Aus 64 - Aus 743 - Aus 744

74(T)/2015 AUSTRALIA - WESTERN AUSTRALIA - Barrow Island - Scientific instrument

Date - Until 15 December 2015

Chevron Australia Pty Ltd (AA783895)

Lit yellow buoy, *Fl. Y. 10s*, exist in position 20° 47'.66 S 115° 29'.24 E.

Chart temporarily affected - Aus 62 - Aus 66

79(T)/2015 AUSTRALIA - WESTERN AUSTRALIA - Bedout Island - Seismic survey northwestwards

Date - Until 15 June 2015

MV *Polarcus Asima* (AA784038)

Survey vessels *Polarcus Asima*, with a 9500m towed array, *Polarcus Amani*, with a 10000m towed array, and support vessels *Offshore Discovery*, *Yardie Creek* and *No Limits* are conducting a survey in the area bounded by the following positions:

18° 38'.89 S 116° 50'.93 E
 18° 38'.93 S 117° 48'.47 E
 19° 13'.27 S 118° 04'.77 E
 19° 12'.44 S 119° 20'.90 E
 18° 41'.77 S 119° 20'.47 E
 18° 13'.09 S 119° 08'.62 E
 17° 21'.98 S 118° 18'.79 E
 17° 13'.03 S 117° 56'.53 E
 17° 12'.95 S 117° 00'.32 E
 17° 22'.37 S 116° 50'.99 E.

Chart temporarily affected - Aus 325 - Aus 326 - Aus 327 - Aus 739 - Aus 4722 (INT 722) - Aus 4723 (INT 723) - AX 04722U - AX 04723U

88(T)/2015 AUSTRALIA - WESTERN AUSTRALIA - Montebello Island - Scientific instruments northwestwards

Date - Until 31 July 2016
MetOcean Engineers (AA783270)

Scientific instruments exist as follows:

Position	Depth (BSL)
19° 52'.51 S 115° 23'.50 E	100m
19° 52'.58 S 115° 19'.44 E	150m
19° 52'.06 S 115° 19'.29 E	150m
19° 52'.43 S 115° 19'.19 E	150m
19° 52'.29 S 115° 19'.14 E	150m
19° 52'.38 S 115° 19'.09 E	12m
19° 53'.71 S 115° 15'.74 E	200m
19° 53'.62 S 115° 10'.58 E	400m
19° 53'.10 S 115° 09'.87 E	550m
19° 51'.97 S 115° 08'.30 E	950m
19° 44'.31 S 114° 36'.53 E	1350m
20° 14'.59 S 113° 48'.05 E	1100m

Chart temporarily affected - Aus 327 - Aus 328 - Aus 329

94(T)/2015 AUSTRALIA - WESTERN AUSTRALIA - Mullaloo - Light buoy

Former Notice - 710(T)/2014 is cancelled

Date - Until 31 December 2015

Department of Transport WA Notice 192/2013 (AA720974, AA754152, AA786366)

An orange spherical light buoy, *Fl(5)Y.20s*, exists in position 31° 47'.13 S 115° 43'.84 E.

Chart temporarily affected - Aus 754 - AX 00754S - AXA 0754S

95(T)/2015 AUSTRALIA - WESTERN AUSTRALIA - North West Cape - Drill rig

Date - Until 21 April 2015

MODU *Atwood Eagle* (AA783063)

Drill rig *Atwood Eagle* is conducting drilling operations in position 21° 26'.04 S 114° 01'.98 E.

Chart temporarily affected - Aus 328 - Aus 329 - Aus 744

97(T)/2015 AUSTRALIA - WESTERN AUSTRALIA - North West Cape - Seismic survey northwestwards

Date - Until 31 May 2015

NT Shipping (AA786367)

MV *Viking Vision*, with a 8100m towed array, is conducting a survey in the area bounded by the following positions:

19° 02'.2 S 116° 18'.7 E
19° 02'.2 S 117° 16'.7 E
19° 37'.6 S 117° 16'.6 E
20° 26'.9 S 116° 12'.0 E
20° 24'.3 S 115° 38'.3 E
20° 09'.6 S 115° 03'.3 E
19° 45'.4 S 115° 03'.6 E
19° 44'.9 S 116° 17'.8 E.

Chart temporarily affected - Aus 57 - Aus 61 - Aus 62 - Aus 326 - Aus 327 - Aus 328 - Aus 741 - Aus 742 - Aus 4722 (INT 722) - Aus 4723 (INT 723) - AX 04722U - AX 04723U

148(T)/2015 AUSTRALIA - WESTERN AUSTRALIA - Browse Island - Drill rig northwestwards

Date - Until 5 March 2015

Australian Maritime Safety Authority Auscoast Warning 016/2015 (AA788722), MODU *ENSCO 5006* (AA789025)

Drill rig *ENSCO 5006* is conducting drilling operations in position 13° 52'.77 S 123° 19'.12 E.

Chart temporarily affected - Aus 319 - Aus 320 - AX 00319U

152(P)/2015 AUSTRALIA - WESTERN AUSTRALIA - Port Hedland - Light beacons established

Pilbara Ports Authority Notice PH02/15 (AA788272)

Light beacons marked by temporary lights, Q.Y have been established in the following positions:

20° 19'.726 S 118° 35'.207 E SC01 Fl.G.2s
20° 19'.703 S 118° 35'.238 E SC02 Fl.R.2s
20° 19'.817 S 118° 35'.326 E SC03 Fl.G.2s
20° 19'.789 S 118° 35'.350 E SC04 Fl.R.2s

Chart which will be affected - Aus 54

204(T)/2015 AUSTRALIA - WESTERN AUSTRALIA - Barrow Island - Drill rig westwards

Date - Until 15 May 2015

MODU *Ocean America* (AA790147)

Drill rig *Ocean America* is conducting drilling operations in position 20° 25'.94 S 114° 19'.14 E.

Chart temporarily affected - Aus 328 - Aus 329 - Aus 4723 (INT 723) - AX 04723U

207(T)/2015 AUSTRALIA - WESTERN AUSTRALIA - Browse Island - Drill rig northwards

Date - Until 31 August 2016

MODU *Jack Bates* (AA791032), AMSA AUSCOAST 030/2015 (AA791031)

Drill rig *Jack Bates* is conducting drilling operations in position 13° 54'.21 S 123° 09'.98 E.

Chart temporarily affected - Aus 319 - Aus 320 - Aus 322 - Aus 4721 (INT 721) - Aus 4722 (INT 722) - AX 00319U - AX 00322U - AX 04721U - AX 04722U

209(T)/2015 AUSTRALIA - WESTERN AUSTRALIA - Glomar Shoal - Scientific instruments northwards

Date - Until 30 June 2015

MetOcean Engineers (AA791260)

Scientific instruments marked by special light buoys, Q(5)Y.20s, exist in the following positions:

18° 45'.47 S 117° 01'.24 E

19° 31'.45 S 117° 02'.73 E

19° 31'.48 S 117° 02'.56 E.

Chart temporarily affected - Aus 327 - Aus 741

210(T)/2015 AUSTRALIA - WESTERN AUSTRALIA - North West Cape - FPSO off station

Former Notice - 751(T)/2014 is cancelled

Date - Until 1 April 2015

Apache Energy Ltd (AA755658, AA756281)

The FPSO *Ningaloo Vision* (21° 24'.2 S 114° 05'.3 E) is off station; an obstruction with least depth 36m exists in situ.

Chart temporarily affected - Aus 328 - Aus 329 - Aus 744 - Aus 4723 (INT 723) - Aus 4725 (INT 725) - AX 04723U

253(T)/2015 AUSTRALIA - WESTERN AUSTRALIA - Bedout Island - Seismic survey

Date - Until 25 April 2015

Searcher Seismic Pty Ltd (AA793747)

Survey vessel *BGP Explorer*, towing an 8500m cable, is conducting a survey in the area bounded by the following positions:

17° 53'.47 S 118° 38'.30 E

17° 45'.00 S 118° 14'.26 E

17° 45'.02 S 120° 29'.47 E

18° 43'.91 S 120° 58'.86 E

19° 00'.39 S 120° 59'.72 E

19° 30'.00 S 120° 20'.00 E

19° 30'.00 S 117° 35'.07 E

18° 49'.92 S 117° 35'.08 E.

Mariners are advised to navigate with caution in the area. 6NM clearance requested.

Chart temporarily affected - Aus 324 - Aus 325 - Aus 326 - Aus 739 - Aus 4722 (INT 722) - AX 04722U

254(T)/2015 AUSTRALIA - WESTERN AUSTRALIA - Dampier - Scientific instruments

Date - Until 30 May 2015

Port of Dampier Notice D05/15 (AA793044)

Special light buoys, *Fl.3s*, exist in the following positions:

20° 35'.09 S 116° 40'.50 E

20° 36'.69 S 116° 45'.12 E

20° 38'.20 S 116° 43'.97 E.

Chart temporarily affected - Aus 58 - Aus 59 - Aus 60

255(T)/2015 AUSTRALIA - WESTERN AUSTRALIA - Dampier - Depth information

Former Notice - 137(T)/2014 is cancelled

Dampier Port Authority Notice 6/2015 (AA793435)

Available depths as at 19 February 2015:

	<i>Metres</i>	<i>Remarks</i>
East Intercourse Island	19.1	
East Intercourse Island Layby berth	19.4	
* East Intercourse Island Departure Channel	15.1	
* Rio Tinto Deep Water Channel	15.3	
Parker Point berth 2	18.7	
Parker Point berth 3	18.8	
Parker Point berth 4	19.5	
Parker Point berth 5	19.1	
* Parker Point Departure Channel	15.0	
Parker Point Approach Channel	8.0	
Fuel Wharf	11.4	
Service Wharf	6.7	
Mermaid Marine Supply Base Outer Channel	5.4	
Mermaid Marine Supply Base Inner Channel	3.0	
Berthing pocket	7.2	
Burrup Materials Facility	7.0	
Dampier Cargo Wharf	9.0	Western side
	6.5	Eastern side
Bulk Liquids Berth	12.4	
Facilities Channel	11.0	
* Indicates new or revised entry.		

Chart temporarily affected - Aus 58 - Aus 59 - Aus 60

257(T)/2015 AUSTRALIA - WESTERN AUSTRALIA - Dampier - Rio Tinto Channel - Dredging operations

Pilbara Ports Authority Notice 08(T)/2015 (AA794449)

The dredge *Reliance* and support vessel *Inception 2* are conducting dredging operations in Rio Tinto Channels between the following positions:

20° 31'.70 S 116° 42'.40 E

20° 38'.24 S 116° 43'.06 E

20° 38'.99 S 116° 40'.20 E.

Vessels will display appropriate lights and shapes and will monitor VHF Ch 11 and Ch 16.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 58 - Aus 59 - Aus 60

259(T)/2015 AUSTRALIA - WESTERN AUSTRALIA - North West Reefs - AIS non operational

Pilbara Ports Authority No D04/15 (AA792383)

The AIS, 20° 37'.29 S 116° 24'.49 E is non operational.

Chart temporarily affected - Aus 57 - Aus 741 - Aus 742

261(T)/2015 AUSTRALIA - WESTERN AUSTRALIA - Port Hedland - Stanley Point - Piling

Pilbara Ports Authority Notice PH03/2015 (AA792406)

A piling template marked by lights, Q.Y, is located in approximate position 20° 19'.51 S 118° 34'. 16 E

Chart temporarily affected - Aus 52 - Aus 54

308(T)/2015 AUSTRALIA - WESTERN AUSTRALIA - Ashburton Road - Diving operations

Date - Until 21 April 2015

Department for Transport WA (AA795897)

Diving operations are in progress in the following positions:

21° 38'.70S 114° 54'.30 E
21° 38'.18S 114° 55'.42 E
21° 38'.69S 114° 56'.82 E
21° 38'.81S 114° 58'.80 E
21° 31'.34S 114° 58'.17 E
21° 29'.69S 114° 58'.84 E
21° 26'.73S 115° 02'.44 E
21° 26'.41S 115° 03'.25 E
21° 28'.18S 115° 01'.46 E.

MV *Samson Explorer* is on site and will display appropriate lights and shapes and will monitor VHF channels 14 and 16.

Mariners are advised to navigate with caution in the area.

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

311(T)/2015 AUSTRALIA - WESTERN AUSTRALIA - Barrow Island - Town Point - Mooring buoys

Port of Barrow Island Notice 04/2015 (AA796589)

Mooring buoys exist in the following positions:

20° 48'.43 S 115° 30'.57 E
20° 48'.55 S 115° 30'.53 E
20° 48'.66 S 115° 30'.95 E.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 62 - Aus 66

386(T)/2015 AUSTRALIA - WESTERN AUSTRALIA - Breaksea Island - Light unreliable

AMSA AUSCOAST 73/2015 (AA797916)

The light, *Fl(2)6s 119m 13M & Oc.R.1-5s 119m 15M* (35° 03'.87 S 118° 03'.45 E), is unreliable.

Chart temporarily affected - Aus 110 - Aus 118 - Aus 336 - Aus 337 - Aus 759 - AX 00110S - AX 00118S

388(T)/2015 AUSTRALIA - WESTERN AUSTRALIA - Muiron Islands - Light buoys northwestwards

AMSA AUSCOAST 082/2015 (AA799632)

Two special light buoys, Q.Y, exist within a 1NM radius of 21° 32'.0 S 114° 05'.0 E.

Chart temporarily affected - Aus 328 - Aus 329 - Aus 744

391(T)/2015 AUSTRALIA - WESTERN AUSTRALIA - Rankin Bank - Drill rig westwards

Date - Until 17 April 2015

MODU *Deepwater Millennium* (AA795602, AA798232), AMSA Auscoast 075/15 (AA797919)

MODU *Deepwater Millennium* is conducting drilling operations in position 19° 48'.26 S 115° 12'.61 E.

Chart temporarily affected - Aus 328 - Aus 4723 (INT 723) - AX 04723U

394(T)/2015 AUSTRALIA - WESTERN AUSTRALIA - Thevenard Island - Diving operations; light buoys

Date - Until 5 May 2015

Department for Transport WA Notice 53/2015 (AA798197)

Diving operations will take place from 11 April 2015 to remove the following nav aids:

Position	Remarks
21° 23'.80 S 114° 55'.65 E	Q(9)15s
21° 23'.92 S 114° 56'.48 E	Fl(2)G.5s
21° 23'.69 S 114° 56'.39 E	Fl(2)R.5s

21° 23'.15 S 114° 57'.84 E	Fl(3)G.8s
21° 22'.40 S 114° 58'.68 E	Fl(4)G.10s
21° 21'.82 S 114° 59'.78 E	Q(2)G.10s
21° 21'.68 S 115° 00'.36 E	Q(3)G.10s
21° 21'.72 S 115° 00'.82 E	Q(4)G.6s
21° 22'.52 S 115° 01'.94 E	Q(5)G.10s

MV *Mermaid Supporter* is on site and will display appropriate lights and shapes and will monitor VHF channels 14 and 16.

Mariners are advised to navigate with caution in the area.

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

439(P)/2015 AUSTRALIA - WESTERN AUSTRALIA - Adele Island - Racon to be discontinued

Date - On or about 6 June 2015

Australian Maritime Safety Authority Preliminary ATH 07/2015 (AA801289)

The racon at Adele Island (15° 30'.62 S 123° 09'.46 E) will be permanently discontinued.

Chart which will be affected - Aus 320 - Aus 322 - Aus 323 - Aus 732 - Aus 4060 (INT 60) - Aus 4603 (INT 603) - Aus 4721 (INT 721) - Aus 4722 (INT 722) - AX 00322U - AX 04603U - AX 04721U - AX 04722U

440(T)/2015 AUSTRALIA - WESTERN AUSTRALIA - Ashburton Road - Anchorages; pilot boarding place; recommended track; pilotage area; exclusion zone

Former Notice - 540(T)/2014 is cancelled

Date - Until 1 October 2016

Chevron Australia Pty Ltd (AA801822)

Temporary anchorages with a 400m radius swinging circle exist as follows:

<i>Anchorage design</i>	<i>Position</i>
A1	21° 30'.24 S 115° 02'.32 E
A2	21° 30'.73 S 115° 02'.31 E
A3	21° 31'.20 S 115° 02'.30 E
A4	21° 32'.31 S 114° 57'.45 E
A5	21° 32'.32 S 114° 57'.94 E
A6	21° 32'.78 S 114° 57'.45 E
A7	21° 32'.78 S 114° 57'.94 E
A8	21° 32'.32 S 114° 58'.43 E
A9	21° 32'.79 S 114° 58'.43 E

A temporary pilot boarding place exists in position 21° 35'.84 S 115° 00'.50 E.

A temporary recommended track bearing 142° - 322° exists between positions 21° 32'.78 S 114° 57'.94 E and 21° 35'.84 S 115° 00'.50 E.

A temporary compulsory pilotage area exists south of a line between positions 21° 37'.00 S 114° 56'.78 E and 21° 37'.00 S 115° 04'.56 E within the port limit.

An exclusion zone marked by special light buoys, Fl.Y.6s exists between the following positions:

21° 40'.44 S 114° 58'.81 E
 21° 39'.36 S 114° 58'.81 E
 21° 39'.37 S 114° 59'.84 E
 21° 39'.40 S 115° 01'.77 E
 21° 41'.27 S 115° 01'.77 E.

Chart temporarily affected - Aus 64 - Aus 743

442(T)/2015 AUSTRALIA - WESTERN AUSTRALIA - Barrow Island - Scientific instruments northwestwards

Former Notice - 1194(T)/2014 is cancelled

Date - Until 30 December 2015

MetOcean Engineers (AA778914, AA800776)

Scientific instruments exist as follows:

<i>Position</i>	<i>Remarks</i>
19° 47'.21 S 114° 34'.76 E	subsurface
19° 47'.17 S 114° 37'.00 E	subsurface
19° 47'.18 S 114° 35'.98 E	orange spherical light buoy, Q(5)Y.20s
20° 25'.19 S 114° 55'.77 E	special pillar light buoy, Q(5)Y.20s

20° 25'.67 S 114° 55'.51 E orange spherical light buoy, Q(5)Y.20s
20° 26'.17 S 114° 55'.20 E subsurface

Chart temporarily affected - Aus 328

444(T)/2015 AUSTRALIA - WESTERN AUSTRALIA - Lorikeet Shoal - Scientific instrument northwards

Date - Until 30 November 2015

Department for Transport WA Notice 65/2015 (AA800758)

A subsurface scientific instrument marked by a special light buoy, *Fl.Y.3s*, exists in position 15° 34'.82 S 124° 01'.02 E.

Chart temporarily affected - Aus 320 - Aus 323 - Aus 730 - Aus 732

445(T)/2015 AUSTRALIA - WESTERN AUSTRALIA - Montebello Islands - Pipe laying northwards

Date - Until 3 December 2015

MV *Audacia* (AA800514)

SPV *Audacia*, *Highland Navigator* and *Mermaid Inscription* are conducting pipe laying operations in an area bounded by the following positions:

19° 54'.71 S 115° 23'.06 E
19° 55'.70 S 115° 19'.50 E
20° 01'.16 S 115° 11'.06 E
20° 02'.75 S 115° 12'.00 E
19° 56'.30 S 115° 24'.00 E.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 327 - Aus 328

446(T)/2015 AUSTRALIA - WESTERN AUSTRALIA - Montebello Islands - Mooring buoys northwestwards

Former Notices - 512(T)/2014, 1034(T)/2014 are cancelled

Date - Until 31 October 2016

Viking Seatech (AA801389, AA801390)

12 yellow mooring buoys, *Fl.3s*, exist within 1NM radius of the following positions:

19° 54'.35 S 115° 16'.12 E
19° 48'.70 S 115° 17'.70 E.

Chart temporarily affected - Aus 328

447(T)/2015 AUSTRALIA - WESTERN AUSTRALIA - Montebello Islands - Mooring buoy northwards

Date - Until 1 May 2015

Viking Seatech (AA801389, AA801390), AMSA AUSCOAST 089/15 (AA801342)

A yellow mooring buoy, *Fl.3s*, exist in position 19° 48'.17 S 115° 21'.62 E.

Chart temporarily affected - Aus 327 - Aus 328

448(T)/2015 AUSTRALIA - WESTERN AUSTRALIA - Montebello Islands - Platform northwards

Former Notice - 983(T)/2014 is cancelled

Date - Until 20 April 2015

Chevron Australia Pty Ltd (AA801327)

Barge *H851* and support vessels *Posh Hawk*, *Posh Eagle* and *Skandi Pacific*, are operating in the vicinity of position 19° 55'.76 S 115° 23'.04 E to establish the Wheatstone Platform.

A 500m exclusion zone exists around the platform.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 327 - Aus 328

449(T)/2015 AUSTRALIA - WESTERN AUSTRALIA - Muiron Islands - Drill rig northwestwards

Date - Until 20 June 2015

MODU *Atwood Falcon* (AA801449)

Drill rig *Atwood Falcon* is conducting drilling operations in position 21° 32'.29 S 114° 05'.07 E.

Chart temporarily affected - Aus 328 - Aus 329 - Aus 744

450(T)/2015 AUSTRALIA - WESTERN AUSTRALIA - Muiron Islands - Light buoy northwestwards

Date - Until 1 July 2015

BHP Billiton Petroleum Pty Ltd (AA801235, AA801237, AA801239, AA801240, AA801241), MetOcean (AA801796)

An orange spherical light buoy, Q(5)Y.20s, exists in position 21° 33'.97 S 114° 06'.94 E

Chart temporarily affected - Aus 328 - Aus 329 - Aus 744

SOUTH AUSTRALIA

720(T)/2008 AUSTRALIA - SOUTH AUSTRALIA - Port Adelaide - Shoaling

Former Notice - 240(T)/2006 is cancelled

Department for Transport, Energy and Infrastructure Notice 38/2007 (AA346443)

Silting has resulted in width restrictions being imposed in the main channel of the Port Adelaide River between No 40 beacon (34° 47'.86 S 138° 30'.79 E) and No 41 beacon (34° 48'.52 S 138° 30'.77 E).

Mariners should avoid the western side of the main channel and navigate with caution in this part of the River as the available navigable channel is now only 90 metres wide measured from the eastern edge.

Mariners intending to transit this section should contact the Manager Marine Operations, Flinders Ports Pty Ltd on (08) 8447 0622 to confirm maximum widths.

Chart temporarily affected - Aus 137

1344(T)/2011 AUSTRALIA - SOUTH AUSTRALIA - Gulf St Vincent - Obstruction

Former Notice - 534(T)/2011 is cancelled

Fugro LADS Corporation (AA534581)

An obstruction is reported to exist in position 34° 42'.37 S 138 15'.94 E.

Chart temporarily affected - Aus 781

71(T)/2012 AUSTRALIA - SOUTH AUSTRALIA - Wallaroo - Depth information

Former Notice - 176(T)/2009 is cancelled

Department for Transport, Energy and Infrastructure SA Notice 38/2010 (AA515239, AA515240)

Available depths as at 24 August 2010:

	<i>Metres</i>	<i>Remarks</i>
* No 1 South Berth	8.7	Berth pocket is 313m x 36m and is 84m in from outer edge of wharf.
* No 2 North Berth	8.7	Berth pocket is 246m x 36m and is 20m in from outer edge of wharf.
* Indicates new or revised entry.		

Chart temporarily affected - Aus 133

194(T)/2014 AUSTRALIA - SOUTH AUSTRALIA - Port Douglas - Light beacon destroyed

Department of Planning, Transport and Infrastructure SA Notice 5/2014 (AA721989)

No7 light beacon, Q.G (34° 32'.29 S 135° 21'.88 E), has been destroyed; a starboard lateral light buoy, Q.G, exists in situ.

Chart temporarily affected - Aus 121

467(T)/2014 AUSTRALIA - SOUTH AUSTRALIA - Port Macdonnell - Harbour works

Date - Until 31 December 2014

Department of Planning, Transport and Infrastructure SA Notice 21/2014 (AA737290)

Harbour works associated with the upgrade of the existing boat ramp and wharf in position 38° 03'.46 S 140° 41'.74 E are in progress.

Temporary rock groynes marked by lights, *Fl.Y.2s*, exist in the vicinity of the boat ramp.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 348

515(T)/2014 AUSTRALIA - SOUTH AUSTRALIA - Port Adelaide - North Haven - Harbour works

Date - Until 30 September 2014

Department of Planning, Transport and Infrastructure SA Notice 20/2014 (AA737288)

Harbour works associated with the extension of the breakwater are in progress in the marina.

Special buoys mark the area with the most north-westerly and the most south-westerly being lit.

A starboard lateral light beacon, *Fl.G.3s*, will be established on the end of the new extended breakwater in position 34° 47'.65 S 138° 29'.04 E.

A port lateral light beacon, *Fl.R.2s*, will be established in position 34° 47'.63 S 138° 29'.01 E.

The light in position 34° 47'.67 S 138° 29'.08 E will be altered to *Fl.4s*.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 137

840(T)/2014 AUSTRALIA - SOUTH AUSTRALIA - Port Pirie - Depth information Department of Planning, Transport and Infrastructure SA Notice 28/2014 (AA762366)

Available depths as of 13 August 2014:

<i>Location</i>	<i>Metres</i>
* Between beacons No3 to No5	6.2
* Between beacons No42 to No56	6.2
* Eastern side of the inner harbor swinging basin	6.2
* Indicates new or revised entry	

Chart temporarily affected - Aus 136

938(T)/2014 AUSTRALIA - SOUTH AUSTRALIA - Fleurieu Peninsula - Haycock Point - Hulk; prohibited area *Former Notice - 657(T)/2014 is cancelled* Department of Planning, Transport and Infrastructure SA Notice 37/2014 (AA751067, AA751219, AA766339)

A stranded hulk, marked by a light *Fl.Y.4s*, exists in position 35° 25'.23 S 138° 18'.33 E.

A prohibited area, marked by special buoys, exists in an area bounded by the following positions:

35° 25'.15 S 138° 18'.28 E
35° 25'.17 S 138° 18'.42 E
35° 25'.32 S 138° 18'.39 E
35° 25'.29 S 138° 18'.26 E.

Chart temporarily affected - Aus 485 - Aus 780

939(T)/2014 AUSTRALIA - SOUTH AUSTRALIA - Port Adelaide - Depth information *Former Notice - 305(T)/2014 is cancelled* Department of Planning, Transport and Infrastructure SA Notice 34/2014 (AA766282)

Available depths as at 5 September 2014:

<i>Berth</i>	<i>Metres</i>
Outer Harbor No1	11.0
Outer Harbor No2	10.5
* Outer Harbor No3	9.7
* Outer Harbor No6	13.6
* Outer Harbor No7	13.6
* Outer Harbor No8	15.5
* Outer Harbor Turning Basin	13.3
Osborne Wharf No1	8.3
Inner Harbor No29	9.5
* Inner Harbor No25	8.3
* Inner Harbor K	7.1
* Inner Harbor N	7.6
* Indicates new or revised entry	

Chart temporarily affected - Aus 137

1099(T)/2014 AUSTRALIA - SOUTH AUSTRALIA - Whyalla - Light beacon destroyed Department of Planning, Transport and Infrastructure SA Notice 42/2014 (AA773250)

No4 port lateral light beacon, *F.R* (33° 01'.66 S 137° 36'.71 E), has been destroyed; a port lateral light buoy, *F.R*, exists in situ.

Chart temporarily affected - Aus 135

1201(T)/2014 AUSTRALIA - SOUTH AUSTRALIA - North Haven - Shoaling
Department of Planning, Transport and Infrastructure SA Notice 45/2014 (AA779953)

Shoaling exists within the entrance to the marina (34° 47'.71 S 138° 28'.91 E).

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 137

1203(T)/2014 AUSTRALIA - SOUTH AUSTRALIA - Yatala Channel - Shoaling
South Australia Notice 44/2014 (AA778362)

Shoaling with a least depth of 7.8m exists in the channel for a width of 40m along the NW edge, between beacon 12 (32° 11'.18 S 133° 37'.58 E) and beacon 16 (32° 10'.99 S 133° 37'.88 E).

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 122

318(T)/2015 AUSTRALIA - SOUTH AUSTRALIA - Cape Jaffa - Margaret Brock Reef - Light unlit
Former Notice - 1098(T)/2014 is cancelled
Department of Planning, Transport and Infrastructure SA Notice 04/2015 (AA795767)

The light, *Fl.5s 17m 10M* (36° 57'.08 S 139° 35'.70 E), is unlit.

Chart temporarily affected - Aus 127 - Aus 347

319(T)/2015 AUSTRALIA - SOUTH AUSTRALIA - Port Augusta - Curlew Island - Harbour works
Date - Until 1 June 2015
Department of Planning, Transport and Infrastructure SA Notice 06/2015 (AA795772)

Harbour works are being conducted on the power transmission towers in the following positions:

32° 32'. 43 S 137° 46'. 60 E
32° 32'. 46 S 137° 46'. 58 E
32° 32'. 48 S 137° 46'. 95 E
32° 32'. 48 S 137° 46'. 57 E
32° 32'. 51 S 137° 46'. 97 E.

Work platforms around each tower will be marked by lights, Q.Y.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 132

VICTORIA

514(T)/2008 AUSTRALIA - VICTORIA - Western Port - Phillip Island - Shoaling northwards

Victorian Notice 64(T)/2008 (AA333884)

Shoaling, least depth *13.4 metres*, exists at position 38° 25'.53 S 145° 13'.90 E extending 100 metres into the shipping channel .

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 150 - Aus 151

942(T)/2010 AUSTRALIA - VICTORIA - Port Phillip - Geelong - Depth information

Former Notice - 465(T)/2009 is cancelled

Victorian Notice 31(T)/2005, 104(T)/2005 (AA131863, AA203894), Victorian Regional Channels Authority (AA490300, AA490301)

Available depths as at 19 August 2010:

<i>Berth</i>	<i>Metres</i>
Bulk Grain Pier 1	9.0
Bulk Grain Pier 2	11.0
Point Wilson Jetty North	8.6
Point Henry Pier Alcoa	11.6

*Indicates new or revised entry.

Chart temporarily affected - Aus 153 - Aus 157

1291(T)/2010 AUSTRALIA - VICTORIA - Ninety Mile Beach - Obstructions

Former Notice - 458(T)/2007 is cancelled

Victorian Notice 51(T)/2007 (AA242065)

Suspended well heads exists within a 300m radius of position 38° 37'.65 S 146° 53'.75 E.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 357

131(T)/2012 AUSTRALIA - VICTORIA - Anderson Inlet - Shoaling

Former Notice - 1300(T)/2009 is cancelled

Victorian Notice 8(T)/2012 (AA577182)

Shoaling exists in the outer entrance channel of the Anderson Inlet entrance bar (38° 39'.0 S 145° 43'.0 E).

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 801

1185(T)/2013 AUSTRALIA - VICTORIA - Port Phillip - Port Melbourne Channel - Light buoys

Date - Until 30 March 2014

Victorian Notice 142(T)/2013 (AA707098, AA707099)

Special pillar light buoys, VQ(4)Y.4s, exist in the following positions:

37° 58'.87 S 144° 55'.69 E

37° 58'.86 S 144° 54'.96 E

37° 56'.58 S 144° 55'.77 E

37° 56'.57 S 144° 55'.07 E.

Chart temporarily affected - Aus 155

102(P)/2014 AUSTRALIA - VICTORIA - Western Port - Western Channel - AIS trial

Victorian Notice 6(P)/2014 (AA716215)

An AIS unit MMSI 995031001 has been established at the light buoy, *Fl.R.4s No8* (38° 27'.23 S 145° 09'.40 E).

Chart which will be affected - Aus 150 - Aus 151

197(T)/2014 AUSTRALIA - VICTORIA - Port Phillip - Mornington - Harbour works

Date - Until 23 December 2014

Victorian Notice 30(T)/2014 (AA721994)

Works associated with the reconstruction of Mornington Pier are in progress in an area marked by special conical light buoys, *Fl. Y. 3s*, bounded by the following positions:

38° 12'.70 S 145° 02'.13 E

38° 12'.68 S 145° 02'.11 E

38° 12'.72 S 145° 02'.01 E

38° 12'.76 S 145° 02'.01 E.

All hazards to navigation will display appropriate lights and shapes.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 143

434(T)/2014 AUSTRALIA - BASS STRAIT - Light unlit

AMSA (AA735003)

The light, *Mo(U) 15s* (38° 11'.23 S 148° 23'.23 E), is unlit.

Chart temporarily affected - Aus 357 - Aus 4644 (INT 644)

607(T)/2014 AUSTRALIA - VICTORIA - Port Phillip - Brighton - Harbour works

Victorian Notice 106(T)/2014 (AA749499)

Harbour works in the marina (37° 54'.31 S 144° 58'.83 E) are in progress.

All hazards to navigation will display appropriate lights and shapes.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 155

608(T)/2014 AUSTRALIA - VICTORIA - Western Port - Watson Inlet - Beacon destroyed

Victorian Notice 107(T)/2014 (AA747911)

No14 port lateral beacon (38° 14'.91 S 145° 15'.86 E) has been destroyed; a port lateral buoy exists in situ.

Chart temporarily affected - Aus 150 - Aus 151

760(T)/2014 AUSTRALIA - VICTORIA - Port Phillip - Great Ship Channel - Shoaling

Former Notice - 723(T)/2011 is cancelled

Victorian Notice 129(T)/2014 (AA756274)

Shoaling, with a least depth of *16.8m*, exists in position 38° 18'.03 S 144° 37'.71 E.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 144 - Aus 158

987(T)/2014 AUSTRALIA - VICTORIA - Port Phillip - Werribee South - Harbour works

Former Notice - 772(T)/2012 is cancelled

Date - Until 30 April 2016

Victorian Notice 160(T)/2014 (AA769322)

Harbour works associated with the construction of a new marina are in progress in an area bounded by the following:

Position

37° 58'.29 S 144° 42'.27 E

37° 58'.31 S 144° 42'.36 E

37° 58'.32 S 144° 42'.46 E

37° 58'.28 S 144° 42'.55 E

Remarks

special conical buoy, without topmark

special conical light buoy, *Fl. Y. 7s*, with topmark

special conical buoy, without topmark

special conical light buoy, *Fl. Y. 7s*, with topmark

37° 58'.23 S 144° 42'.63 E	special conical buoy, without topmark
37° 58'.17 S 144° 42'.69 E	special conical light buoy, <i>Fl.Y.7s</i> , with topmark
37° 58'.10 S 144° 42'.75 E	special conical buoy, without topmark
37° 58'.04 S 144° 42'.81 E	special conical light buoy, <i>Fl.Y.7s</i> , with topmark
37° 57'.97 S 144° 42'.86 E	special conical buoy, without topmark
37° 57'.89 S 144° 42'.85 E	special conical light buoy, <i>Fl.Y.7s</i> , with topmark
37° 57'.81 S 144° 42'.82 E	special conical buoy, without topmark.

All hazards to navigation will display appropriate lights.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 143 - Aus 155

1100(T)/2014 AUSTRALIA - VICTORIA - Geelong - Point Henry - Light unlit; light discontinued

Victorian Notice 190(T)/2014 (AA774706)

The light, *F.Bu* (38° 08'.03 S 144° 25'.64 E), is unlit.

The light, *F.Bu* (38° 07'.70 S 144° 26'.20 E), has been temporarily discontinued.

Chart temporarily affected - Aus 157

1101(T)/2014 AUSTRALIA - VICTORIA - Western Port - Scientific instruments

Date - Until 23 October 2015

Victorian Notice 184(T)/2014 (AA774010, AA774012)

Scientific instruments exist as follows:

	<i>Position</i>	<i>Remarks</i>
WPO4	38° 29'.56 S 144° 50'.76 E	subsurface
WPO3	38° 31'.61 S 144° 58'.69 E	subsurface
WPO1	38° 41'.26 S 145° 32'.20 E	subsurface
WE 2	38° 30'.05 S 145° 06'.54 E	subsurface
WE 3	38° 25'.73 S 145° 06'.66 E	subsurface
WE 4	38° 26'.95 S 145° 10'.75 E	subsurface
R1	38° 26'.21 S 145° 16'.25 E	subsurface
C2	38° 21'.42 S 145° 30'.62 E	subsurface
C3	38° 18'.23 S 145° 28'.85 E	special light buoy, <i>Q.Y</i>
LNA 1	38° 23'.41 S 145° 15'.04 E	subsurface
LNA 2	38° 22'.22 S 145° 14'.90 E	special light buoy, <i>Q.Y</i>
LNA 6	38° 15'.88 S 145° 15'.48 E	special light buoy, <i>Q.Y</i>
UNA 1	38° 16'.15 S 145° 18'.90 E	special light buoy, <i>Q.Y</i>
UNA 3	38° 16'.28 S 145° 25'.31 E	subsurface
UNA 4	38° 15'.91 S 145° 28'.97 E	special light buoy, <i>Q.Y</i>
UNA 5	38° 17'.56 S 145° 28'.17 E	special light buoy, <i>Q.Y</i>
WER 1	38° 30'.41 S 145° 05'.33 E	subsurface

Chart temporarily affected - Aus 150 - Aus 151 - Aus 788 - Aus 801

1151(T)/2014 AUSTRALIA - VICTORIA - Port Phillip - Port Melbourne - Webb Dock - Light beacons

Victorian Notice 189/2014 (AA774057, AA776260)

The following light beacons have been altered as follows:

<i>Name</i>	<i>Position</i>	<i>New characteristic</i>
No82	37° 51'.03 S 144° 54'.53 E	<i>Fl.R.5s</i>
No84	37° 50'.98 S 144° 54'.56 E	<i>Fl.R.5s</i>
No23	37° 51'.04 S 144° 54'.51 E	<i>Iso.G.4s</i>

Chart temporarily affected - Aus 154

1249(T)/2014 AUSTRALIA - VICTORIA - Port Phillip - Corio Bay - Nav aids

Former Notice - 1042(T)/2014 is cancelled

Victorian Notices 218(T)/2014 (AA782566)

The following light beacons have been repositioned. Light characteristics remain the same:

<i>Name</i>	<i>Old Position</i>	<i>New position</i>
No1	38° 07'.14 S 144° 22'.19 E	38° 07'.13 S 144° 22'.22 E

No3	38° 06'.77 S 144° 22'.24 E	38° 06'.77 S 144° 22'.28 E
No11	38° 07'.45 S 144° 22'.81 E	38° 07'.43 S 144° 22'.82 E
No13	38° 07'.34 S 144° 22'.36 E	38° 07'.33 S 144° 22'.37 E.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 153 - Aus 157

109(T)/2015 AUSTRALIA - VICTORIA - Port Phillip - South Channel - Shoaling

Victorian Notices 225(T)/2014 (AA783516)

Shoaling with a least depth of 15.2m exists between light beacons No2 and No4 in position 38° 17'.98 S 144° 43'.07

Shoaling with a least depth of 15.0m exists between light beacons No4 and No6 in position 38° 18'.24 S 144° 44'.79.

Chart temporarily affected - Aus 144 - Aus 158

110(T)/2015 AUSTRALIA - VICTORIA - Port Phillip - Williamstown - Harbour works

Date - Until 15 March 2015

Victorian Notices 2/2015 (AA783584)

Harbour works associated with the rehabilitation of Breakwater Pier (37° 51'.88 S 144° 55'.01 E) are in progress.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 154 - Aus 155

214(T)/2015 AUSTRALIA - VICTORIA - Port Phillip - South Channel - Dredging operations

Date - Until 15 May 2015

Victorian Notice No039(T)/2015 (AA791671)

The dredge *Brisbane* and support vessels will be conducting dredging operations in South Channel (38° 18'.8 S 144° 47'.4 E) and South East Dredged Material Ground (38° 14'.8 S 144° 57'.5 E).

The dredge material will be deposited at the Port of Melbourne spoil ground (38° 00'.8 S 144° 52'.8 E).

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 143 - Aus 144 - Aus 155 - Aus 158

264(T)/2015 AUSTRALIA - VICTORIA - Port Phillip - Port Melbourne - Webb Dock - Harbour works; dredging operations; silt curtain; retaining wall; light repositioned

Former Notice - 989(T)/2014 is cancelled

Date - Until 30 November 2016

Victorian Notices 71(T)/2014, 84(T)/2014, 138(T)/2014, 159(T)/2014, 165(T)/2014, 044(T)/2015 (AA733134, AA739510, AA760199, AA766333, AA769524, AA792696)

Harbour works associated with the construction of a new international container terminal are in progress.

The berths 3E (37° 50'.60 S 144° 54'.45 E), 4E (37° 50'.73 S 144° 54'.54 E) and 5E (37° 50'.87 S 144° 54'.65 E) are temporarily unavailable for access.

The dredge *Machiavelli*, tugs *PT Mary* and *PT May* and support vessels are conducting dredging operations in the area. Vessels will monitor VHF Ch 12.

Two silt curtains, marked by lit flashing and unlit yellow buoys, exist between:

- 1- 37° 50'.44 S 144° 54'.23 E and 37° 50'.65 S 144° 54'.28 E
- 2- 37° 50'.35 S 144° 54'.30 E, 37° 50'.37 S 144° 54'.29 E and 37° 50'.38 S 144° 54'.25 E.

A retaining wall exists approximately 350m along the western shoreline from a position north of the Webb Dock West 2 pontoon and within the silt curtain.

The light (37° 50'.10 S 144° 54'.08 E) has been temporarily altered to *F.Bu.11m 8M* and repositioned to 37° 50'.03 S 144° 54'.04 E.

The light (37° 50'.44 S 144° 54'.24 E) has been temporarily discontinued.

The light (37° 50'.34 S 144° 54'.19 E) has been temporarily altered to *Fl.WR.2s*

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 154

321(T)/2015 AUSTRALIA - VICTORIA - Ninety Mile Beach - Survey operations

Date - Until 3 April 2015

Hibiscus Petroleum (AA796844)

MV *Go Capella* is conducting a geophysical survey in an area bounded by the following positions:

38° 10'.78 S 147° 32'.80 E

38° 10'.24 S 147° 32'.79 E

38° 10'.24 S 147° 33'.47 E

38° 10'.78 S 147° 33'.48 E.

Chart temporarily affected - Aus 357 - Aus 4644 (INT 644)

323(T)/2015 AUSTRALIA - VICTORIA - Port Phillip - St Kilda - Harbour works

Date - Until 30 March 2015

Victorian Notice 052(T)/2015 (AA795562)

Works associated with the demolition of the eastern marina (37° 51'.74 S 144° 57'.92 E) are in progress.

Works will be marked by lights, Q. Y, in positions 37° 51'.66 S 144° 57'.94 E and 37° 51'.76 S 144° 57'.99 E.

Floating plant will be moored within the area.

All hazards to navigation will display appropriate lights and shapes.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 143 - Aus 155

396(T)/2015 AUSTRALIA - VICTORIA - Ninety Mile Beach - Seismic survey eastwards

Date - Until 30 April 2015

Geoscience Australia (AA799182)

Vessel MV *Duke*, with a 5000m towed array, is conducting a survey in the area bounded by the following positions:

38° 25'.0 S 147° 17'.0 E

38° 27'.0 S 148° 22'.0 E

38° 40'.0 S 148° 27'.0 E

38° 48'.0 S 148° 27'.0 E

39° 00'.0 S 148° 00'.0 E

38° 50'.0 S 147° 00'.0 E

38° 37'.0 S 147° 00'.0 E.

Mariners are advised to navigate with caution in the area. 2NM clearance requested.

Chart temporarily affected - Aus 357 - Aus 487 - Aus 802 - Aus 4644 (INT 644)

398(T)/2015 AUSTRALIA - VICTORIA - Port Phillip - Geelong - Point Richards Channel - Anchorage area

Date - Until 30 September 2015

Victorian Notice 65/2015 (AA798485)

A trial anchorage area, *Geelong Outer Anchorage*, exists in an area bounded by the following positions:

38° 05'.63 S 144° 40'.08 E

38° 05'.37 S 144° 38'.63 E

38° 04'.84 S 144° 38'.51 E

38° 03'.63 S 144° 40'.08 E

Mariners are advised that deep draught vessels may anchor in this area.

Chart temporarily affected - Aus 143 - Aus 157

399(T)/2015 AUSTRALIA - VICTORIA - Port Phillip - Sorrento Channel - Beacon destroyed

Victorian Notice 61/2015 (AA797925)

No8 port lateral beacon (38° 20'.22 S 144° 45'.29 E) has been destroyed; a port lateral buoy exist in situ.

Chart temporarily affected - Aus 143 - Aus 158

400(T)/2015 AUSTRALIA - VICTORIA - Port Phillip - South Wharf - Harbour works

Date - Until 30 April 2015

Victorian Notice 069(T)/2015 (AA799785)

Harbours works are in progress at berths 28 and 29 South Wharf (37° 49'.19 S 144° 55'.28 E).

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 154

402(T)/2015 AUSTRALIA - VICTORIA - Western Port - East Arm - Buoy

Date - Until 23 April 2015

Victorian Notice 067/2015 (AA799631)

Special buoy exists in position 38° 26'.47 S 145° 17'.20 E

Chart temporarily affected - Aus 150 - Aus 151

457(T)/2015 AUSTRALIA - VICTORIA - Ninety Mile Beach - Scientific instruments eastwards

Former Notice - 397(T)/2015 is cancelled

Date - Until 30 June 2015

Geoscience Australia (AA799183, AA800948)

Subsurface scientific instruments exist as follows:

38° 40'.69 S 147° 11'.68 E

38° 39'.92 S 147° 27'.44 E

38° 48'.20 S 147° 42'.43 E

38° 21'.68 S 147° 47'.81 E

38° 50'.50 S 147° 03'.25 E

Approximately 20 subsurface scientific instruments, marked by surface buoys exist in an area bounded by:

38° 28'.19 S 147° 53'.26 E

38° 17'.71 S 148° 00'.45 E

38° 15'.20 S 147° 48'.03 E

38° 23'.07 S 147° 39'.98 E.

Approximately 20 subsurface scientific instruments exist in an area bounded by:

38° 37'.55 S 147° 39'.06 E

38° 35'.52 S 147° 25'.17 E

38° 43'.15 S 147° 15'.09 E

38° 46'.58 S 147° 29'.90 E.

Chart temporarily affected - Aus 357 - Aus 487 - Aus 802

458(T)/2015 AUSTRALIA - VICTORIA - Port Phillip - Rosebud - Harbour works

Date - Until 30 June 2015

Victorian Notices 071(T)/2015, 072(T)/2015 (AA800994, AA800779)

Harbours works are in progress at Rosebud Pier (38° 21'.12 S 144° 54'.48 E).

The light, 38° 21'.00 S 144° 54'.43 E has been altered to *Fl(2)R.5s 5M* for the duration of the works.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 143 - Aus 158

TASMANIA

91(T)/2010 AUSTRALIA - TASMANIA - Georges Bay - Wreck

Former Notice - 1204(T)/2009 is cancelled

Marine and Safety Tasmania Notice M3/2010 (AA447779)

A stranded wreck exists in position 41° 16'.24 S 148° 20'.07 E, with a floating line marked by a white poly-float leading to an anchor in position 41° 16'.20 S 148° 20'.13 E.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 169

576(T)/2012 AUSTRALIA - TASMANIA - Frederick Henry Bay - Scientific instruments

Former Notice - 1229(T)/2011 is cancelled

Date - Until 20 September 2013

Marine and Safety Tasmania (AA602526)

Scientific instruments marked by special conical light buoys exist as follows:

<i>Position</i>	<i>Characteristic</i>
42° 56'.2 S 147° 37'.2 E	<i>Iso.4s</i>
42° 58'.2 S 147° 34'.0 E	<i>Oc.3s.</i>

Chart temporarily affected - Aus 171 - Aus 796

122(T)/2013 AUSTRALIA - TASMANIA - Maria Island - Scientific instruments

Date - Until 28 February 2014

University of Tasmania (AA647460, AA647461)

Subsurface scientific instruments exist on the seabed in the following positions:

42° 40'.08 S 147° 58'.04 E
42° 39'.99 S 147° 58'.60 E
42° 39'.91 S 147° 59'.16 E
42° 39'.82 S 147° 59'.72 E
42° 39'.74 S 148° 00'.28 E.

Subsurface scientific instruments exist 30m below the surface in the following positions:

42° 39'.08 S 148° 10'.40 E
42° 39'.28 S 148° 10'.92 E
42° 39'.48 S 148° 11'.44 E
42° 39'.68 S 148° 11'.96 E
42° 39'.88 S 148° 12'.49 E
42° 40'.08 S 148° 13'.01 E
42° 40'.28 S 148° 13'.53 E
42° 40'.48 S 148° 14'.05 E
42° 40'.68 S 148° 14'.57 E
42° 40'.88 S 148° 15'.10 E
42° 41'.08 S 148° 15'.62 E
42° 41'.28 S 148° 16'.14 E
42° 41'.48 S 148° 16'.66 E
42° 41'.68 S 148° 17'.18 E
42° 41'.88 S 148° 17'.71 E
42° 42'.08 S 148° 18'.23 E
42° 42'.28 S 148° 18'.75 E
42° 42'.48 S 148° 19'.27 E
42° 42'.68 S 148° 19'.79 E
42° 42'.87 S 148° 20'.32 E
42° 43'.07 S 148° 20'.84 E
42° 43'.26 S 148° 21'.26 E.

Chart temporarily affected - Aus 170 - Aus 766 - Aus 797

1074(T)/2013 AUSTRALIA - TASMANIA - Cape Barren Island - Scientific instruments

Date - Until 30 June 2015

Institute for Marine and Antarctic Studies (AA701662 - AA701664), Marine and Safety Tasmania Notice M104/2013 (AA701665)

Subsurface scientific instruments exist on the seabed in the following positions:

40° 26'.38 S 148° 28'.97 E
40° 26'.51 S 148° 29'.51 E
40° 26'.65 S 148° 30'.05 E
40° 26'.78 S 148° 30'.59 E.

Subsurface scientific instruments exist >30m below the surface in the following positions:

40° 26'.91 S 148° 31'.12 E
40° 27'.05 S 148° 31'.66 E
40° 27'.18 S 148° 32'.20 E
40° 27'.31 S 148° 32'.74 E
40° 27'.44 S 148° 33'.27 E
40° 27'.58 S 148° 33'.81 E
40° 27'.71 S 148° 34'.35 E
40° 27'.84 S 148° 34'.89 E
40° 27'.97 S 148° 35'.43 E
40° 28'.11 S 148° 35'.96 E
40° 28'.24 S 148° 36'.50 E
40° 28'.37 S 148° 37'.04 E
40° 28'.50 S 148° 37'.58 E
40° 28'.64 S 148° 38'.12 E
40° 28'.77 S 148° 38'.65 E
40° 28'.90 S 148° 39'.19 E
40° 29'.03 S 148° 39'.73 E
40° 29'.16 S 148° 40'.27 E
40° 29'.30 S 148° 40'.81 E
40° 29'.43 S 148° 41'.35 E
40° 29'.56 S 148° 41'.88 E
40° 29'.69 S 148° 42'.42 E
40° 29'.82 S 148° 42'.96 E
40° 29'.96 S 148° 43'.50 E
40° 30'.09 S 148° 44'.04 E
40° 30'.22 S 148° 44'.58 E
40° 30'.35 S 148° 45'.12 E
40° 30'.48 S 148° 45'.65 E
40° 30'.61 S 148° 46'.19 E
40° 30'.75 S 148° 46'.73 E
40° 30'.88 S 148° 47'.27 E
40° 31'.01 S 148° 47'.81 E
40° 31'.14 S 148° 48'.35 E
40° 31'.27 S 148° 48'.89 E
40° 31'.40 S 148° 49'.40 E
40° 31'.52 S 148° 49'.90 E.

Chart temporarily affected - Aus 487 - Aus 798 - Aus 800

103(T)/2014 AUSTRALIA - TASMANIA - Schouten Passage - Wreck

Marine and Safety Tasmania Notice M135/2013 (AA715862)

A stranded wreck exists in position 42° 17'.53 S 148° 17'.77 E.

Chart temporarily affected - Aus 169 - Aus 766

149(T)/2014 AUSTRALIA - TASMANIA - Hobart - Wrest Point - Beacon destroyed

Marine and Safety Tasmania Notice M14/2014 (AA717937)

The port lateral beacon (42° 54'.13 S 147° 20'.34 E) has been destroyed.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 172

199(T)/2014 AUSTRALIA - TASMANIA - Franklin Sound - Great Dog Island to Vansittart Island - Lights unreliable

Marine and Safety Tasmania Notice M24/2014 (AA719636)

The following lights are unreliable:

<i>Position</i>	<i>Remarks</i>
40° 14'.80 S 148° 15.78 E	F.WRG.8m 6M

40° 16'.24 S 148° 17.32 E *F.WRG.7/5M*

Chart temporarily affected - Aus 179 - Aus 800

201(T)/2014 AUSTRALIA - TASMANIA - Franklin Sound - Lady Barron - Shoaling; light unreliable

Marine and Safety Tasmania Notice M144/2011 (AA569730)

Shoaling exists in the vicinity of position 40° 14'.8 S 148° 25.7 E. The light, *F.WRG.48m 10M* (40° 12'.45 S 148° 14.76 E), is unreliable due to shoaling.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 179 - Aus 800

309(T)/2014 AUSTRALIA - TASMANIA - Pipe Clay Head to Pitt Water - Scientific instruments

Date - Until 15 May 2015

Marine and Safety Tasmania (AA725256)

Subsurface scientific instruments exist in the following positions:

42° 48'.25 S 147° 29'.91 E
42° 48'.29 S 147° 31'.42 E
42° 48'.43 S 147° 30'.02 E
42° 49'.18 S 147° 34'.71 E
42° 50'.70 S 147° 33'.57 E
42° 50'.74 S 147° 35'.11 E
42° 50'.90 S 147° 36'.91 E
42° 51'.05 S 147° 32'.08 E
42° 51'.33 S 147° 35'.89 E
42° 51'.69 S 147° 34'.85 E
42° 51'.82 S 147° 30'.92 E
42° 51'.82 S 147° 33'.36 E
42° 52'.35 S 147° 32'.10 E
42° 52'.70 S 147° 36'.29 E
42° 52'.94 S 147° 34'.16 E
42° 53'.24 S 147° 31'.16 E
42° 53'.79 S 147° 32'.67 E
42° 53'.88 S 147° 37'.33 E
42° 54'.20 S 147° 35'.44 E
42° 54'.37 S 147° 30'.53 E
42° 54'.47 S 147° 40'.80 E
42° 54'.67 S 147° 33'.87 E
42° 54'.92 S 147° 40'.78 E
42° 55'.13 S 147° 31'.80 E
42° 55'.36 S 147° 40'.76 E
42° 55'.81 S 147° 40'.74 E
42° 56'.99 S 147° 39'.68 E
42° 57'.04 S 147° 38'.01 E
42° 57'.15 S 147° 39'.22 E
42° 57'.15 S 147° 37'.41 E
42° 57'.28 S 147° 36'.79 E
42° 57'.40 S 147° 36'.20 E
42° 57'.51 S 147° 35'.59 E
42° 57'.62 S 147° 34'.99 E
42° 57'.73 S 147° 34'.44 E
42° 57'.86 S 147° 33'.85 E
42° 57'.96 S 147° 33'.30 E.

Chart temporarily affected - Aus 171 - Aus 796

551(T)/2014 AUSTRALIA - TASMANIA - Frederick Henry Bay - Whale Rock - Light beacon destroyed

Marine and Safety Tasmania Notice M71/2014 (AA745772)

The isolated danger light beacon, *Fl(2)6s 7m 2M* (42° 52'.74 S 147° 35'.88 E), has been destroyed.

Chart temporarily affected - Aus 171 - Aus 796

1047(T)/2014 AUSTRALIA - TASMANIA - Three Hummock Island - Scientific instrument northeastwards

Date - Until 30 April 2015
Origin Energy (AA770388, AA770423, AA770517)

A blue spherical light buoy, *Fl(5)Y.20s*, exists in position 39° 55'.15 S 145° 20'.95 E.

Chart temporarily affected - Aus 487

1103(T)/2014 AUSTRALIA - TASMANIA - Mercury Passage - Obstructions

Former Notice - 1046(T)/2014 is cancelled

Date - Until 28 February 2016

Marine and Safety Tasmania Notice M108/2014 (AA774240)

Obstructions, 2m above the seabed, exist in an area bounded by the following positions:

42° 38'.92 S 148° 00'.76 E

42° 38'.92 S 148° 00'.93 E

42° 38'.78 S 148° 00'.93 E

42° 38'.78 S 148° 00'.76 E.

Anchoring is prohibited in the area.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 170 - Aus 766 - Aus 797

1205(T)/2014 AUSTRALIA - TASMANIA - Devonport - Shoaling

HydroSurvey Australia (DHDB 2738485)

Shoaling exists in the Devonport entrance channel and berths:

<i>Location</i>	<i>Least depth (metres)</i>	<i>Position</i>
Entrance Channel	8.2	41° 09'.91 S 146° 22'.16 E
Entrance Channel	9.1	41° 10'.08 S 146° 22'.09 E
Entrance Channel	8.7	41° 10'.45 S 146° 21'.84 E
Entrance Channel	8.3	41° 10'.51 S 146° 21'.91 E
Berth 1W	8.1	41° 10'.96 S 146° 21'.82 E
Swing Basin	7.1	41° 11'.12 S 146° 21'.82 E
Berth 3E	7.0	41° 11'.07 S 146° 22'.00 E
Berth 4W	8.3	41° 11'.19 S 146° 21'.82 E
Berth 2E	8.0	41° 10'.93 S 146° 21'.98 E

Chart temporarily affected - Aus 164

117(T)/2015 AUSTRALIA - TASMANIA - D'Entrecasteaux Channel - Great Taylors Bay - Marine farm

Date - Until 22 April 2015

Marine and Safety Tasmania Notice 139/2014 (AA783505)

Mariners are advised that works to amend the boundary of the marine farm are in progress.

The amended boundary will be marked by special light buoys in an area bounded by the following positions:

43° 25'.06 S 147° 07'.36 E

43° 24'.99 S 147° 07'.52 E

43° 25'.24 S 147° 07'.74 E

43° 25'.31 S 147° 07'.58 E.

Chart temporarily affected - Aus 173 - Aus 795

158(T)/2015 AUSTRALIA - TASMANIA - Georges Bay - Beacon destroyed

Former Notice - 1251(T)/2014 is cancelled

Marine and Safety Tasmania Notice M16/2015 (AA788383)

The port lateral beacon *No 8A*, (41° 18'.50 S 148° 17'.65 E), has been destroyed. A port lateral buoy exists in situ.

The starboard lateral beacon, (41° 16'.95 S 148° 19'.85 E), has been destroyed. A starboard lateral buoy exists in situ.

Chart temporarily affected - Aus 169

217(T)/2015 AUSTRALIA - TASMANIA - Sandy Bay - Lit pile

Marine and Safety Tasmania Notice M130/2014 (AA780334)

A lit pile, Q, exists in position 42° 53'.98 S 147° 20'.16 E.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 172

265(T)/2015 AUSTRALIA - TASMANIA - Port Dalrymple - Beauty Point - Harbour works

Date - Until 17 March 2015

MAST Notice M30/15 (AA792391)

Piling operations are in progress at the Maritime College Jetty (41° 09'.45 S 146° 49'.50 E).

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 167

327(T)/2015 AUSTRALIA - TASMANIA - Hobart - Sullivans Cove - Harbour works

Date - Until 1 August 2015

MAST Notice 42/2015 (AA794673)

Harbour works are being conducted at Princes Wharf No 1 berth (42° 53'.14 S 147° 20'.01 E).

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 172

329(T)/2015 AUSTRALIA - TASMANIA - Macquarie Harbour - Scientific instruments

Institute for Marine and Antarctic Studies (AA797461)

Subsurface scientific instruments marked by subsurface buoys 3m above the seabed, exist in the following positions:

42° 22'.59 S 145° 31'.90 E

42° 23'.78 S 145° 28'.02 E.

Chart temporarily affected - Aus 177

331(T)/2015 AUSTRALIA - TASMANIA - Norfolk Bay - Sommers Beach - Beacon destroyed

Marine and Safety Tasmania Notice M45/2015 (AA797179)

The isolated danger beacon, (42° 58'.65 S 147° 49'.40 E), has been destroyed.

Chart temporarily affected - Aus 171

333(T)/2015 AUSTRALIA - TASMANIA - Port of Hobart - River Derwent - Harbour works

Date - Until 21 May 2015

MAST Notice 43/2015 (AA794672)

Harbour works associated with Tasman Bridge will be conducted between 2 February 2015 and 21 May 2015.

Individual bridge spans will be closed to all vessels as follows;

<i>Span</i>	<i>Start</i>	<i>Finish</i>
MV1	02/02/2015	17/02/2015
MV2	17/02/2015	25/02/2015
MV3	25/02/2015	16/03/2015
MV4	16/03/2015	30/03/2015
MV5	30/03/2015	16/04/2015
MV6	16/04/2015	28/04/2015
MV7	28/04/2015	07/05/2015
MV8	08/05/2015	21/05/2015

Two lines of special spherical buoys will be strung across the span subject to maintenance.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 171 - Aus 172

334(T)/2015 AUSTRALIA - TASMANIA - River Tamar - Kings Wharf - Dredging operations

Date - Until 31 March 2015

MAST Notice 44/2015 (AA796595)

The dredge *Milimili*, is conducting dredging operations at Kings Wharf, (41° 25'.72 S 147° 07'.43 E).

A discharge pipeline is marked by lights and special buoys.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 168

PAPUA NEW GUINEA and SOUTH PACIFIC

164(T)/2013 PAPUA NEW GUINEA - Nuakata Passage - Oreore Channel - Light beacon destroyed
National Maritime Safety Authority PNG Notice 2(T)/2013 (AA650413)

The port lateral light beacon, *Q.R* (10° 13'.69 S 150° 52'.77 E), has been destroyed.

Chart temporarily affected - Aus 628

166(T)/2013 PAPUA NEW GUINEA - Condor Point - Light unlit
National Maritime Safety Authority PNG Notice 4(T)/2013 (AA649248)

The light, *Fl(2)8s 15m 10M* (4° 07'.12 S 144° 51'.70 E), is unlit.

Chart temporarily affected - Aus 388 - Aus 4622 (INT 622)

918(T)/2013 PAPUA NEW GUINEA - Port Moresby - Lark Patch - Light beacon destroyed
National Maritime Safety Authority PNG Notice 39(T)/2013 (AA692723)

The light beacon, *Fl.R.3s 7m 4M* (9° 31'.56 S 147° 08'.53 E), has been destroyed.

Chart temporarily affected - Aus 505 - Aus 621

279(T)/2014 PAPUA NEW GUINEA - Bougainville Island - Lights unlit
Former Notice - 1286(T)/2011 is cancelled
National Maritime Safety Authority PNG Notices 22/2011, 46/2011, 52/2011, 5/2014, 6/2014, 7/2014 (AA535709, AA565338, AA569723, AA726330)

The following lights are unlit:

<i>Location</i>	<i>Position</i>
Otua Island (K4886)	6° 27'.50 S 155° 58'.40 E
Takanupei Island (K4884.4)	6° 08'.86 S 155° 34'.31 E
Banaru Reef (K4885.7)	6° 08'.30 S 155° 39'.03 E
Moto Reef (K4885.8)	6° 08'.77 S 155° 39'.52 E
Wogoromodo Reef (K4885.6)	6° 10'.12 S 155° 39'.03 E
Cape Laverdy (K4884)	5° 32'.49 S 155° 03'.88 E.

Chart temporarily affected - Aus 399 - Aus 683 - Aus 4622 (INT 622)

1029(T)/2014 PAPUA NEW GUINEA - Caution Bay - Light beacon destroyed
National Maritime Safety Authority PNG Notice 32/2014 (AA771462)

The starboard lateral light beacon, *Fl.G.3s 6M G1* (9° 18'.30 S 146° 55'.72 E), has been destroyed.

Chart temporarily affected - Aus 379 - Aus 647

1191(T)/2014 PAPUA NEW GUINEA - Unei Island - Light unlit
National Maritime Safety Authority PNG (AA778423)

The light, *Fl(4)16s 6m 9M* (3° 22'.69 S 143° 24'.58 E), is unlit.

Chart temporarily affected - Aus 389 - Aus 651 - Aus 4622 (INT 622)

194(T)/2015 PAPUA NEW GUINEA - Tavanatangir Harbour - Light unlit
National Maritime Safety Authority PNG Notice 04/15 (AA790871)

The light beacon *Fl(2)G.8s 5m 3M No1*, (4° 49'.06 S 151° 40'.40 E) is unlit.

Chart temporarily affected - Aus 672

251(T)/2015 PAPUA NEW GUINEA - Buka Passage - Light unlit
National Maritime Safety Authority PNG Notice 05/2015 (AA793426)

The light *Fl(2-5s) 7m 10M* (5° 24'.39 S 154° 42'.69 E) is unlit.

Chart temporarily affected - Aus 397 - Aus 399 - Aus 684 - Aus 4622 (INT 622)

305(T)/2015 PAPUA NEW GUINEA - Kitumala Point - Light unlit

National Maritime Safety Authority PNG Notice 06/2015 (AA796451)

The light, *Fl(2)8s 26m 10M* (6° 19'.16 S 147° 48'.35 E), is unlit.

Chart temporarily affected - Aus 386 - Aus 387 - Aus 4622 (INT 622)

306(P)/2015 PAPUA NEW GUINEA - Tancred Reef - Shoaling northeastwards

AMSA Navarea X Warning 22/2015 (AA797178), HMAS *Benalla* (AA797217)

Shoaling, with least depth *5m*, exists in position 08° 53'.42 S 149° 02'.61 E.

Mariners are advised to navigate with caution in the area.

Chart which will be affected - Aus 520

424(T)/2015 PACIFIC OCEAN - Scientific instruments

JAMSTEC (AA801793)

Scientific instruments, Triton buoys, exist as follows:

<i>Number</i>	<i>Position</i>
4	0° 01'.05 N 156° 02'.53 E
5	2° 01'.03 S 155° 57'.47 E
9	0° 03'.58 N 147° 00'.65 E.

Chart temporarily affected - Aus 4604 (INT 604) - Aus 4622 (INT 622) - AX 04604U

432(T)/2015 PAPUA NEW GUINEA - Dampier Strait - Nesup Channel - Light buoy off station

National Maritime Safety Authority PNG Notice 13/2015 (AA801291)

The light buoy, *Fl.G.2s* (5° 53'.93 S 148° 09'.06 E) is off station.

Chart temporarily affected - Aus 673

EAST TIMOR

NIL

MISCELLANEOUS

75(T)/2014 INDONESIA - Pulau Selaru - Scientific instruments southwestwards

Date - Until 1 March 2015

Fugro GEOS Pte Ltd (AA715135)

A special spherical light buoy, *Fl(5)Y.20s*, exists in position 9° 07'.22 S 130° 28'.57 E.

A special pillar light buoy, *Fl(5)Y.20s*, exists in position 9° 06'.09 S 130° 28'.23 E.

Chart temporarily affected - Aus 310 - AX 00310U

549(T)/2014 SOUTHERN OCEAN - Cape Sorell - Light buoys withdrawn southwestwards

CSIRO (AA745505)

The light buoy, *Fl.Y.6s* (46° 45'.9 S 141° 58'.0 E), and light buoy, *Fl.3s* (46° 56'.3 S 142° 17'.1 E), have been temporarily withdrawn.

Chart temporarily affected - Aus 4709 (INT 709)

155(T)/2015 SOUTHERN OCEAN - Great Australian Bight - Seismic survey

Former Notice - 1204(T)/2014 is cancelled

Date - Until 30 June 2015

Dolphin Geophysical Pte Ltd (AA788465), AMSA AUSCOAST 014/15 (AA788464)

Survey vessels *Sanco Sword* and *Sanco Swift*, with a 8500m towed array, and support vessels *Sunrise-G*, *7 Waves*, *Limitless* and *Rig Andromeda* are conducting a survey in the area bounded by the following positions:

35° 47'.17 S 132° 53'.39 E

35° 43'.97 S 132° 05'.25 E

35° 14'.91 S 131° 27'.68 E

34° 59'.39 S 131° 34'.16 E

34° 27'.79 S 130° 54'.17 E

33° 59'.87 S 130° 54'.16 E

33° 59'.74 S 131° 09'.97 E

33° 50'.48 S 131° 10'.03 E

33° 50'.60 S 131° 39'.02 E

35° 01'.09 S 133° 09'.97 E.

Mariners are advised to navigate with caution in the area. 6NM clearance requested.

Chart temporarily affected - Aus 4727 (INT 727)