



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

# AUSTRALIAN NOTICES TO MARINERS

Notices 232 - 278 

Published fortnightly by the Australian Hydrographic Service

Commodore R. NAIRN RAN  
Hydrographer of Australia

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

For Notices affecting Admiralty List of Lights and Fog Signals; List of Radio Signals; and Sailing Directions see **British Notices to Mariners.**

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

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

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

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**Mariners are particularly requested to notify the AUSTRALIAN HYDROGRAPHIC SERVICE, Locked Bag 8801 Wollongong, NSW 2500 (Fax 02-4223 6599, e-mail [Hydro.NTM@defence.gov.au](mailto:Hydro.NTM@defence.gov.au) or, alternatively by filling in and submitting the **Hydrographic Notes** forms located on the web site – [www.hydro.gov.au](http://www.hydro.gov.au)), immediately on the discovery of new dangers or suspected dangers to navigation. For changes or defects in aids to navigation notify AusSAR (Fax 02-6230 6868 or email [rccaus@amsa.gov.au](mailto:rccaus@amsa.gov.au)).**

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## IMPORTANT NOTICE

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

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**232 AUSTRALIA - Product**

Australian Hydrographic Service (AA386758, AA386065, AA379372, AA388920)

**New Edition**

| <i>Chart</i> | <i>Published</i> | <i>Title and description of amendments</i>  | <i>Scale</i> | <i>Folio</i> | <i>Index Chart</i> | <i>Price</i> |
|--------------|------------------|---|--------------|--------------|--------------------|--------------|
| Aus 755      | 16/01/2009       | Australia - West Coast - Western Australia - Cape Peron to Cape Naturaliste<br><i>Limited new edition, horizontal datum referred to WGS84 and updated for maritime boundaries.</i>          | 1:150 000    | 4            | Aus 5001           | \$35.00      |
| Aus 756      | 16/01/2009       | Australia - South West Coast - Western Australia - Cape Naturaliste to Cape Leeuwin<br><i>Limited new edition, horizontal datum referred to WGS84 and updated for maritime boundaries.</i>  | 1:150 000    | 4            | Aus 5001           | \$35.00      |
| Aus 757      | 16/01/2009       | Australia - South Coast - Western Australia - Cape Leeuwin to Point D'Entrecasteaux<br><i>Limited new edition, horizontal datum referred to WGS84 and updated for maritime boundaries.</i>  | 1:150 000    | 4            | Aus 5001           | \$35.00      |
| Aus 758      | 16/01/2009       | Australia - South Coast - Western Australia - Point D'Entrecasteaux to Point Hillier<br><i>Limited new edition, horizontal datum referred to WGS84 and updated for maritime boundaries.</i> | 1:150 000    | 4            | Aus 5001           | \$35.00      |
| Aus 759      | 16/01/2009       | Australia - South Coast - Western Australia - Point Hillier to Bald Island<br><i>Limited new edition, horizontal datum referred to WGS84 and updated for maritime boundaries.</i>           | 1:150 000    | 4            | Aus 5001           | \$35.00      |
| Aus 5000     | 16/01/2009       | Australian Index of Nautical Charts - Northern Portion  |              |              |                    | \$17.50      |
| Aus 5001     | 16/01/2009       | Australian Index of Nautical Charts - Southern Portion  |              |              |                    | \$17.50      |

**New Electronic Navigation Chart (Seafarer ENC)**

| <i>Cell Name</i> | <i>Released</i> | <i>Title</i>   |
|------------------|-----------------|--|
| AU305147         | February 2009   | Bismark Sea - Cell 1   |
| AU305148         | February 2009   | Bismark Sea - Ottilien Reef to Whirlwind Reef                      |
| AU305149         | February 2009   | Bismark Sea - Vitu Islands   |
| AU305150         | February 2009   | Bismark Sea - Cell 2   |
| AU314121         | February 2009   | Indian Ocean - Northern Approaches to Scott Reef                   |
| AU314140         | February 2009   | Gulf of Carpentaria - Cell 3                                       |
| AU335114         | February 2009   | Western Australia - Cape Freycinet to Geographe Reef               |
| AU335121         | February 2009   | Western Australia - Baynes Rock to Termination Island              |
| AU335123         | February 2009   | Western Australia - Middle Island To Salisbury Island              |
| AU336133         | February 2009   | South Australia - Southern Ocean - Cell 1                          |
| AU336134         | February 2009   | South Australia - Southern Ocean - Cell 3                          |
| AU336135         | February 2009   | South Australia - Southern Ocean - Cell 4                          |
| AU337135         | February 2009   | South Australia - Southern Ocean - Cell 7                          |
| AU344144         | February 2009   | Tasmania West Coast - Southern Ocean - Cell 2                      |
| AU345145         | February 2009   | Tasmania West Coast - Southern Ocean - Cell 1                      |
| AU405151         | February 2009   | Bismark Sea - Cape Lambert to Lolobau Island                       |
| AU406147         | February 2009   | Bismark Sea - Umboi Island to Long Island                          |
| AU406148         | February 2009   | Bismark Sea - Cape Raoult to Dampier Strait                        |
| AU406149         | February 2009   | Bismark Sea - Willaumez Peninsula to Hook Reef                     |
| AU407148         | February 2009   | Solomon Sea - Cell 12  |
| AU412134         | February 2009   | Northern Territory - Approaches to Milingimbi Inlet and Maningrida |
| AU414141         | February 2009   | Gulf of Carpentaria - Approaches to Archer River                   |
| AU416130         | February 2009   | Northern Territory - Upper Victoria River                          |
| AU432158         | February 2009   | Tasman Sea - Western Approach to Lord Howe Island                  |
| AU432159         | February 2009   | Tasman Sea - Eastern Approach to Lord Howe Island                  |
| AU434123         | February 2009   | Western Australia - Yorkinup Point to Sandy Bight                  |
| AU435122         | February 2009   | Cape Le Grand to Westall Island                                    |
| AU443148         | February 2009   | Tasmania - Maria Island to Freycinet Peninsula                     |

**New Electronic Navigation Chart (Seafarer ENC) (continued)**

|          |               |   |
|----------|---------------|---|
| AU444145 | February 2009 | Tasmania West Coast - Port Davey                          |
| AU5X41P1 | February 2009 | Western Australia - Cockatoo Island                       |
| AU5X41P2 | February 2009 | Western Australia - Koolan Island                         |
| AU5X64P1 | February 2009 | Western Australia - Onslow                                |
| AU5X73P1 | February 2009 | Western Australia - Cape Cuvier                           |
| AU5134P2 | February 2009 | South Australia - Proper Bay                              |
| AU5136P1 | February 2009 | South Australia - Port Pirie Wharves and Entrance Channel |
| AU5136P2 | February 2009 | South Australia - Port Bonython                           |
| AU5136P3 | February 2009 | South Australia - Port Bonython                           |
| AU5139P3 | February 2009 | South Australia - Ardrossan                               |
| AU5XX610 | February 2009 | Tasman Sea - Lord Howe Island                             |
| AU5680P1 | February 2009 | Bismark Sea - Simpson and Matupit Harbours                |
| AU5777P1 | February 2009 | South Australia - Wallaroo Bay                            |

**New Chart to be published shortly**

| <i>Chart</i> | <i>Title</i>  | <i>Scale</i> | <i>Expected Publication Date</i> | <i>Expected Stock Availability</i> |
|--------------|---|--------------|----------------------------------|------------------------------------|
| Aus 672      | Papua New Guinea - New Britain - North Coast - Tavanatangir Harbour | 1:12 500     | 27 February 2009                 | 6 April 2009                       |

**Chart permanently withdrawn**

| <i>Chart</i> | <i>On publication of new chart</i> |
|--------------|------------------------------------|
| Aus 755      | Aus 755                            |
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| Aus 757      | Aus 757                            |
| Aus 758      | Aus 758                            |
| Aus 759      | Aus 759                            |
| Aus 5000     | Aus 5000                           |
| Aus 5001     | Aus 5001                           |

For further details refer to the AHS website at [www.hydro.gov.au](http://www.hydro.gov.au) for new edition and new chart stock arrival information.

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

**233 AUSTRALIA - Amendment to Australian Notice to Mariners No 2**  
Australian Hydrographic Service (AA386139)

Page 9

Delete entry for Coffs Harbour Slipway New South Wales

Page 11

Amend chart agent name to Glascraft Marine Supplies (Qld)

**234\* AUSTRALIA - NEW SOUTH WALES - Greenwell Point - Light beacon**  
NSW Maritime (AA378889, AA378890)

**Aus 191 (plan, Crookhaven River Entrance) [999/2008]**

|            |   |              |               |
|------------|---|--------------|---------------|
| Substitute | port lateral light beacon, <i>Fl.R.</i> 3s, with topmark for beacon | 34° 54'.55 S | 150° 44'.06 E |
|------------|---|--------------|---------------|

**235\* AUSTRALIA - NEW SOUTH WALES - Port Hacking - Burraneer Bay - Buoy**  
NSW Maritime (AA374017, AA374018)

**Aus 198 [134/2009]**

|        |   |               |                |
|--------|---|---------------|----------------|
| Insert | port lateral spar buoy, without topmark | 34° 04'.044 S | 151° 07'.837 E |
|--------|---|---------------|----------------|

|        |             |              |               |
|--------|-------------|--------------|---------------|
| Delete | depth, 1,4m | 34° 04'.04 S | 151° 07'.84 E |
|--------|-------------|--------------|---------------|

**236\* AUSTRALIA - NEW SOUTH WALES - Botany Bay - Light buoy**  
NSW Maritime (AA374017, AA374018)

**Aus 198 [235/2009]**

|            |  |              |               |
|------------|--|--------------|---------------|
| Substitute | port lateral cylindrical light buoy, <i>Fl.R.</i> 3s, without topmark for buoy | 33° 57'.83 S | 151° 12'.44 E |
|------------|--|--------------|---------------|

**Aus 199 [1000/2008]**

|            |  |              |               |
|------------|--|--------------|---------------|
| Substitute | port lateral cylindrical light buoy, <i>Fl.R.</i> 3s, without topmark for buoy | 33° 57'.83 S | 151° 12'.44 E |
|------------|--|--------------|---------------|

**237\* AUSTRALIA - NEW SOUTH WALES - Port Stephens - Wirung Island - Light beacon**  
NSW Maritime (AA378889, AA378890)

**Aus 209 [136/2009]**

|            |   |              |               |
|------------|---|--------------|---------------|
| Substitute | starboard lateral light beacon, <i>Fl.G.</i> 3s, without topmark for beacon | 32° 40'.02 S | 151° 58'.97 E |
|------------|---|--------------|---------------|

**238\* AUSTRALIA - QUEENSLAND - Moreton Bay - Manly - Light buoy**  
Maritime Safety Queensland Notice 91(T)/2009 (AA385859)

**Aus 236 (plan, Manly Boat Harbour) [138/2009]**

|        |            |              |               |
|--------|------------|--------------|---------------|
| Delete | light buoy | 27° 27'.20 S | 153° 11'.42 E |
|--------|------------|--------------|---------------|

**239\* AUSTRALIA - QUEENSLAND - Brisbane River - Town Reach - Light beacon**

Maritime Safety Queensland Notice 71/2009 (AA384346)

**Aus 238 [1220/2008]**

Delete light beacon 27° 27'.81 S 153° 01'.96 E

**Aus 238 (plan, Town Reach and Shafston Reach)**

Delete light beacon 27° 27'.81 S 153° 01'.96 E

**240\* AUSTRALIA - QUEENSLAND - Bushy Island - Reef delineation**

Australian Hydrographic Service (AA369651)

**Aus 821 [559/2007]**

Insert accompanying block 20° 57'.0 S 150° 02'.0 E

**Aus 823 [140/2009]**

Insert accompanying block 20° 58'.0 S 150° 02'.0 E

**Aus 824 [186/2009]**

Insert accompanying block 20° 57'.0 S 150° 02'.0 E

**241\* AUSTRALIA - QUEENSLAND - Townsville - Navaids; chart note; depth**

Australian Hydrographic Service (AA387014), Maritime Safety Queensland (AA387445 - AA387447), UKHO (AA387013)

**Aus 256 [141/2009]**

Insert safe water topmark 19° 14'.92 S 146° 49'.85 E

|        |                     |             |              |
|--------|---------------------|-------------|--------------|
| Delete | structure colour, R | 19° 15'.8 S | 146° 50'.5 E |
|        | structure colour, R | 19° 15'.2 S | 146° 51'.0 E |
|        | structure colour, R | 19° 15'.5 S | 146° 50'.7 E |
|        | structure colour, R | 19° 16'.1 S | 146° 50'.2 E |

**Aus 257 [188/2009]**

|        |                    |               |                |
|--------|--------------------|---------------|----------------|
| Insert | depth, 4,m         | 19° 13'.419 S | 146° 50'.747 E |
|        | safe water topmark | 19° 14'.92 S  | 146° 49'.85 E  |

|            |   |              |               |
|------------|---|--------------|---------------|
| Substitute | starboard lateral conical light buoy, <i>Fl.G.2.5s</i> , without topmark for light buoy | 19° 15'.30 S | 146° 50'.85 E |
|            | special spar buoy, with topmark for buoy  | 19° 15'.15 S | 146° 49'.97 E |
|            | light beacon, <i>Fl.G.3s</i> , with rectangular topmark for light beacon                | 19° 15'.01 S | 146° 49'.77 E |

|        |                         |              |               |
|--------|-------------------------|--------------|---------------|
| Delete | depth, 5 <sub>2</sub> m | 19° 13'.41 S | 146° 50'.73 E |
|        | structure colour, G     | 19° 15'.43 S | 146° 49'.51 E |
|        | structure colour, G     | 19° 15'.36 S | 146° 49'.56 E |
|        | structure colour, G     | 19° 15'.22 S | 146° 49'.63 E |
|        | structure colour, R     | 19° 15'.81 S | 146° 50'.47 E |

**242\* AUSTRALIA - QUEENSLAND - Archer Point - AIS; navline**

Australian Maritime Safety Authority (AA307149, AA307205, AA386655, AA386656)

**Aus 831 [1006/2008]**

|        |  |              |               |
|--------|--|--------------|---------------|
| Insert | magenta circle, with legend <i>AIS</i> , at light  | 15° 35'.62 S | 145° 19'.72 E |
|        | a dashed line in a direction 156.4° for a distance of 6M, thence a continuous line for 10M, with legend 336.4°, emanating from light | 15° 35'.62 S | 145° 19'.72 E |

|        |  |             |              |
|--------|--|-------------|--------------|
| Delete | dashed and continuous line with legend, emanating from light | 15° 35'.6 S | 145° 19'.7 E |
|--------|--|-------------|--------------|

**243\* AUSTRALIA - QUEENSLAND - First Stony Point - Rock**  
Australian Hydrographic Service (AA385534), R Walsh (AA385029)

**Aus 834 [189/2009]**

Substitute rock which covers and uncovers enclosed by danger circle, with legend *Rep (2008)* for depth, 0,4m 12° 22'.9 S 143° 15'.4 E

**Aus 835 [189/2009]**

Insert drying height, (2,4) 12° 22'.55 S 143° 15'.20 E

Substitute rock which covers and uncovers enclosed by danger circle, with legend *Rep (2008)* for depth, 0,4m 12° 22'.9 S 143° 15'.4 E

**244\* AUSTRALIA - NORTHERN TERRITORY - Groote Eylandt - ZOC diagram; chart note; legends**  
Australian Hydrographic Service (AA318722)

**Aus 14 [512/2006]**

Substitute [accompanying ZOC diagram](#) for reliability diagram 13° 21'.0 S 136° 16'.0 E

Amend legend to *UNSURVEYED* 13° 32'.3 S 136° 14'.9 E  
 legend to *UNSURVEYED* 13° 36'.3 S 136° 16'.3 E  
 legend to *UNSURVEYED* 13° 40'.9 S 136° 38'.2 E  
 legend to *UNSURVEYED* 13° 41'.5 S 136° 33'.5 E  
 legend to *UNSURVEYED* 13° 44'.6 S 136° 15'.8 E  
 legend to *UNSURVEYED* 13° 48'.0 S 136° 33'.5 E  
 legend to *UNSURVEYED* 13° 49'.6 S 136° 28'.9 E  
 legend to *UNSURVEYED* 13° 50'.3 S 136° 16'.2 E  
 legend to *UNSURVEYED* 13° 56'.9 S 136° 24'.0 E

Delete legend, Inadequately Surveyed (see Note) 13° 22'.9 S 136° 23'.5 E  
 legend, Inadequately Surveyed (see Note) 13° 30'.8 S 136° 18'.7 E  
 note, UNSURVEYED 13° 46'.2 S 136° 39'.5 E  
 note, INADEQUATELY SURVEYED 13° 46'.9 S 136° 39'.5 E

**245\* AUSTRALIA - NORTHERN TERRITORY - Gugari Rip - Nomenclature**  
Australian Hydrographic Service (AA384349)

**Aus 15 (plan, Gugari Rip or Hole in the Wall) [1115/2007]**

Insert [accompanying block](#) 11° 34'.2 S 136° 21'.5 E

**Aus 442 [847/2008]**

Amend name to *Gugari Rip* 11° 36'.5 S 136° 24'.0 E

**Aus 715 [847/2008]**

Delete text, or Hole In The Wall, centred on 11° 33'.7 S 136° 22'.3 E

**246 INDONESIA - Irian Jaya - Lights**

BA Notice 7/782/2009 (AA384339)

**Aus 4603 (INT 603) [194/2009]**

|        |       |            |              |
|--------|-------|------------|--------------|
| Insert | light | 5° 23'.2 S | 137° 43'.1 E |
|        | light | 8° 24'.9 S | 137° 38'.1 E |

**Aus 4720 (INT 720) [1073/2008]**

|        |                         |            |              |
|--------|-------------------------|------------|--------------|
| Insert | light, <i>Fl(2) 20M</i> | 5° 23'.2 S | 137° 43'.1 E |
|        | light, <i>Fl(2) 20M</i> | 8° 24'.9 S | 137° 38'.1 E |

**AX 4603F [194/2009]**

|        |       |            |              |
|--------|-------|------------|--------------|
| Insert | light | 5° 23'.2 S | 137° 43'.1 E |
|        | light | 8° 24'.9 S | 137° 38'.1 E |

**AX 4720F [NC 26/9/2008]**

|        |                         |            |              |
|--------|-------------------------|------------|--------------|
| Insert | light, <i>Fl(2) 20M</i> | 5° 23'.2 S | 137° 43'.1 E |
|        | light, <i>Fl(2) 20M</i> | 8° 24'.9 S | 137° 38'.1 E |

**247\* AUSTRALIA - NORTHERN TERRITORY - Darwin - Light buoy**

Darwin Port Corporation (AA384605)

**Aus 24 [906/2008]**

|        |            |              |               |
|--------|------------|--------------|---------------|
| Delete | light buoy | 12° 28'.37 S | 130° 48'.37 E |
|--------|------------|--------------|---------------|

**Aus 26 [1014/2008]**

|        |            |              |               |
|--------|------------|--------------|---------------|
| Delete | light buoy | 12° 28'.37 S | 130° 48'.37 E |
|--------|------------|--------------|---------------|

**AX 72026 [1014/2008]**

|        |            |              |               |
|--------|------------|--------------|---------------|
| Delete | light buoy | 12° 28'.37 S | 130° 48'.37 E |
|--------|------------|--------------|---------------|

**248\* AUSTRALIA - WESTERN AUSTRALIA - Cawston Bay to Wyndham - Depths**

Department for Planning and Infrastructure WA (DHDB 1119306)

**Aus 32 [197/2009]**

|        |                                    |             |              |
|--------|------------------------------------|-------------|--------------|
| Insert | <a href="#">accompanying block</a> | 15° 05'.5 S | 128° 06'.0 E |
|--------|------------------------------------|-------------|--------------|

**Aus 32 (plan, Approaches to Wyndham Wharf)**

|        |                                    |             |              |
|--------|------------------------------------|-------------|--------------|
| Insert | <a href="#">accompanying block</a> | 15° 20'.5 S | 128° 06'.0 E |
|--------|------------------------------------|-------------|--------------|

**Aus 32 (plan, Wyndham Wharf)**

|        |                                    |             |              |
|--------|------------------------------------|-------------|--------------|
| Insert | <a href="#">accompanying block</a> | 15° 27'.5 S | 128° 05'.6 E |
|--------|------------------------------------|-------------|--------------|

**249\* AUSTRALIA - WESTERN AUSTRALIA - Broome - Anchorages; radio reporting point**  
 Broome Port Authority (AA384999)

**Aus 50 [1063/2007]**

|        |   |              |               |
|--------|---|--------------|---------------|
| Insert | anchor berth, with 500 metre radius swinging circle, desig O1 | 17° 57'.08 S | 122° 03'.92 E |
|        | anchor berth, with 500 metre radius swinging circle, desig O2 | 17° 56'.08 S | 122° 03'.92 E |
|        | anchor berth, with 500 metre radius swinging circle, desig O3 | 17° 55'.08 S | 122° 03'.92 E |
|        | anchor berth, with 300 metre radius swinging circle, desig G1 | 17° 56'.58 S | 122° 09'.92 E |
|        | anchor berth, with 300 metre radius swinging circle, desig G2 | 17° 56'.08 S | 122° 09'.92 E |
|        | anchor berth, with 300 metre radius swinging circle, desig G3 | 17° 56'.58 S | 122° 09'.42 E |
|        | anchor berth, with 300 metre radius swinging circle, desig G4 | 17° 56'.08 S | 122° 09'.42 E |
|        | anchor berth, with 300 metre radius swinging circle, desig E1 | 18° 01'.73 S | 122° 11'.87 E |
|        | anchor berth, with 300 metre radius swinging circle, desig E2 | 18° 01'.58 S | 122° 11'.47 E |
|        | anchor berth, with 300 metre radius swinging circle, desig E3 | 18° 01'.43 S | 122° 11'.07 E |
|        | anchor berth, with 300 metre radius swinging circle, desig E4 | 18° 01'.28 S | 122° 10'.67 E |
|        | anchor berth, with 300 metre radius swinging circle, desig I1 | 18° 01'.38 S | 122° 13'.62 E |
|        | anchor berth, with 300 metre radius swinging circle, desig I2 | 18° 01'.38 S | 122° 14'.07 E |
|        | anchor berth, with 300 metre radius swinging circle, desig I3 | 18° 01'.38 S | 122° 14'.52 E |
|        | anchor berth, with 300 metre radius swinging circle, desig I4 | 18° 01'.38 S | 122° 14'.97 E |
|        | anchor berth, with 300 metre radius swinging circle, desig I5 | 18° 01'.38 S | 122° 15'.37 E |
|        | anchor berth, with 300 metre radius swinging circle, desig I6 | 18° 01'.38 S | 122° 15'.82 E |
|        | anchor berth, with 300 metre radius swinging circle, desig I7 | 18° 01'.38 S | 122° 16'.27 E |
|        | anchor berth, with 300 metre radius swinging circle, desig I8 | 18° 00'.98 S | 122° 15'.82 E |
|        | anchor berth, with 300 metre radius swinging circle, desig I9 | 18° 00'.98 S | 122° 16'.27 E |
|        | two-way radio reporting point, orient 130° - 310°             | 17° 59'.48 S | 122° 09'.87 E |
| Delete | depth, 13 <sub>4</sub> m                                      | 17° 56'.1 S  | 122° 09'.9 E  |
|        | depth, 18 <sub>3</sub> m                                      | 18° 01'.4 S  | 122° 15'.0 E  |
|        | depth, 27m  | 18° 01'.4 S  | 122° 13'.6 E  |

**Aus 50 (plan, Broome Harbour)**

|        |   |              |               |
|--------|---|--------------|---------------|
| Insert | anchor berth, with 300 metre radius swinging circle, desig I1 | 18° 01'.38 S | 122° 13'.62 E |
|        | anchor berth, with 300 metre radius swinging circle, desig I2 | 18° 01'.38 S | 122° 14'.07 E |

**Aus 324 [1012/2007]**

|        |                          |              |               |
|--------|--------------------------|--------------|---------------|
| Insert | anchor berth, desig O1   | 17° 57'.08 S | 122° 03'.92 E |
|        | anchor berth, desig O3   | 17° 55'.08 S | 122° 03'.92 E |
| Delete | depth, 6 <sub>4</sub> fm | 17° 54'.6 S  | 122° 03'.9 E  |

**250\* AUSTRALIA - WESTERN AUSTRALIA - Dampier - King Bay - Infrastructure**  
Mermaid Marine Australia Ltd (AA384777 - AA384779)

**Aus 59 (plan, Withnell Bay to King Bay) [58/2009]**

Insert [accompanying block](#) 20° 38'.0 S 116° 45'.0 E

**251\* AUSTRALIA - WESTERN AUSTRALIA - Sultan Reef - Depths**

Tenix LADS Corporation Pty Ltd (DHDB 1045145)

**Aus 64 [1234/2008]**

Insert depth, 16<sub>7</sub>m 21° 24'.44 S 115° 05'.37 E

Delete depth, 15<sub>7</sub>m 21° 24'.6 S 115° 05'.5 E

**252\* AUSTRALIA - WESTERN AUSTRALIA - Wedge Island to Lancelin - ZOC diagram**

Australian Hydrographic Service (AA318722)

**Aus 105 [1022/2008]**

Substitute [accompanying ZOC diagram](#) for reliability diagram 31° 03'.0 S 115° 24'.0 E

**253\* AUSTRALIA - WESTERN AUSTRALIA - Mindarie Keys - Lights**

Department for Planning and Infrastructure WA (AA382821, AA382825)

**Aus 334 [64/2009]**

Insert a dashed line in a direction 226° for a distance of 1M,  
thence a continuous line for 6M, with legend *046°*  
(see Note), emanating from light 31° 40'.95 S 115° 42'.22 E

Amend light to *2F.Bu.7M (2F Day)* 31° 40'.9 S 115° 42'.2 E

Delete dashed and continuous line with legend, emanating  
from light 31° 40'.9 S 115° 42'.2 E  
depth, 27<sub>2</sub>m 31° 44'.8 S 115° 38'.2 E

**Aus 754 [64/2009]**

Insert light, *F.Bu.42m 7M (F Day)* 31° 41'.04 S 115° 42'.23 E  
light, *F.Bu.59m 7M (F Day)* 31° 40'.87 S 115° 42'.44 E  
a dashed line in a direction 226° for a distance of 1M,  
thence a continuous line for 6M, with legend *Leading*  
*Lights 046°* (see Note), emanating from light 31° 40'.87 S 115° 42'.44 E

Delete dashed and continuous line with legend, emanating  
from light 31° 41'.0 S 115° 42'.2 E  
light 31° 41'.0 S 115° 42'.2 E

**AX 0334E [64/2009]**

Insert a dashed line in a direction 226° for a distance of 1M,  
thence a continuous line for 6M, with legend *046°*  
(see Note), emanating from light 31° 40'.95 S 115° 42'.22 E

Amend light to *2F.Bu.7M (2F Day)* 31° 40'.9 S 115° 42'.2 E

Delete dashed and continuous line with legend, emanating  
from light 31° 40'.9 S 115° 42'.2 E  
depth, 27<sub>2</sub>m 31° 44'.8 S 115° 38'.2 E

**253\* AUSTRALIA - WESTERN AUSTRALIA - Mindarie Keys – Lights** *(continued)***AX 0754E** [64/2009]

|        |   |              |               |
|--------|---|--------------|---------------|
| Insert | light, <i>F.Bu.42m 7M (F Day)</i>   | 31° 41'.04 S | 115° 42'.23 E |
|        | light, <i>F.Bu.59m 7M (F Day)</i>   | 31° 40'.87 S | 115° 42'.44 E |
|        | a dashed line in a direction 226° for a distance of 1M, thence a continuous line for 6M, with legend <i>Leading Lights 046° (see Note)</i> , emanating from light | 31° 40'.87 S | 115° 42'.44 E |
| Delete | dashed and continuous line with legend, emanating from light  | 31° 41'.0 S  | 115° 42'.2 E  |
|        | light   | 31° 41'.0 S  | 115° 42'.2 E  |

**AX 66002** [64/2009]

|        |   |              |               |
|--------|---|--------------|---------------|
| Insert | light, <i>F.Bu.42m 7M (F Day)</i>   | 31° 41'.04 S | 115° 42'.23 E |
|        | light, <i>F.Bu.59m 7M (F Day)</i>   | 31° 40'.87 S | 115° 42'.44 E |
|        | a dashed line in a direction 226° for a distance of 1M, thence a continuous line for 6M, with legend <i>Leading Lights 046° (see Note)</i> , emanating from light | 31° 40'.87 S | 115° 42'.44 E |
| Delete | dashed and continuous line with legend, emanating from light  | 31° 41'.0 S  | 115° 42'.2 E  |
|        | light   | 31° 41'.0 S  | 115° 42'.2 E  |

**254\* AUSTRALIA - WESTERN AUSTRALIA - Bunbury - Nav aids**  
Department for Planning and Infrastructure WA (AA382821, AA382825)**Aus 115 (plan, Port of Bunbury)** [66/2009]

|        |  |               |                |
|--------|--|---------------|----------------|
| Insert | special beacon, with topmark                                 | 33° 18'.952 S | 115° 38'.742 E |
|        | west cardinal light beacon, <i>Q(9)15s 3M</i> , with topmark | 33° 18'.739 S | 115° 39'.516 E |
| Delete | depth, 1 <sub>1</sub> m                                      | 33° 18'.74 S  | 115° 39'.52 E  |

**255\* AUSTRALIA - VICTORIA - Point Sturgess - Production wells southwestwards**

*Former Notice - 1320(T)/2008 is cancelled*  
Santos (AA384660, AA386374)

**Aus 349** [645/2007]

|        |   |              |               |
|--------|---|--------------|---------------|
| Insert | depth, <i>34fm</i> , enclosed by danger circle with legend <i>Prod Well</i> | 38° 42'.33 S | 142° 37'.14 E |
|        | depth, <i>33fm</i> , enclosed by danger circle with legend <i>Prod Well</i> | 38° 40'.90 S | 142° 38'.35 E |

**256 AUSTRALIA - CORAL SEA - Argo Bank - Depth**

BA Notice 6/629/2009 (AA384340)

**Aus 4060 (INT 60)** [1073/2008]

|            |                                    |             |              |
|------------|------------------------------------|-------------|--------------|
| Substitute | depth, <i>27m</i> , for depth, 36m | 23° 12'.4 S | 159° 27'.0 E |
|------------|------------------------------------|-------------|--------------|

**Aus 4602 (INT 602)** [1116/2008]

|            |                                    |             |              |
|------------|------------------------------------|-------------|--------------|
| Substitute | depth, <i>27m</i> , for depth, 36m | 23° 12'.4 S | 159° 27'.0 E |
|------------|------------------------------------|-------------|--------------|

**257(T)/2009 AUSTRALIA - NEW SOUTH WALES - Brisbane Water - Point Frederick - Light beacon destroyed**  
NSW Maritime (AA387815, AA387816)

The south cardinal light beacon (33° 27'.18 S 151° 20'.37 E) has been destroyed; a south cardinal spar light buoy exists in situ.

**Chart temporarily affected – Aus 216 - AU5XX204**

**258(T)/2009 AUSTRALIA - TASMAN SEA - Live firing completed**

*Former Notice - 78(T)/2009 is cancelled*  
Department of Defence RAAF (AA386375)

Cancel this notice on receipt.

**Chart formerly affected – Aus 209 – Aus 219 – Aus 361 – Aus 423 – Aus 424 – Aus 809 – Aus 810 – AX 0809E - AU433152**

**259(T)/2009 AUSTRALIA - QUEENSLAND - Southport - South Channel - Dredging operations**

*Date - Until 31 July 2009*  
Maritime Safety Queensland 104(T)/2009 (AA387350)

The dredge *Everglade* is conducting dredging operations in an area bounded by 27° 56'.50 S 153° 24'.63 E and 27° 55'.95 S 153° 25'.42 E (WGS84 datum).

The dredge will monitor VHF Ch 10.

A pipeline marked by light buoys, Q. Y, exists between the dredge and following positions:

27° 56'.46 S 153° 25'.27 E  
27° 56'.90 S 153° 25'.26 E  
27° 56'.94 S 153° 25'.29 E  
27° 57'.48 S 153° 25'.35 E  
27° 57'.81 S 153° 25'.37 E  
27° 58'.17 S 153° 25'.15 E

and:

27° 57'.48 S 153° 25'.35 E  
27° 57'.74 S 153° 24'.98 E.

Mariners are advised to navigate with caution in the area.

**Chart temporarily affected – Aus 814**

**260(T)/2009 AUSTRALIA - QUEENSLAND - Moreton Bay - Woody Point - Harbour works completed; light buoy withdrawn**

*Former Notice - 308(T)/2008 is cancelled*  
Maritime Safety Queensland Notice 90/2009 (AA385858)

Cancel this notice on receipt.

**Chart formerly affected – Aus 236**

**261(T)/2009 AUSTRALIA - QUEENSLAND - Moreton Bay - Scarborough - Harbour works; light buoys**

Maritime Safety Queensland Notice 100(T)/2009 (AA386106)

Light buoys, *Fl.R.3s*, exist in the following positions:

27° 11'.57 S 153° 06'.39 E  
27° 11'.56 S 153° 06'.49 E  
27° 11'.59 S 153° 06'.54 E.

They mark the boundary of harbour works in progress for a new marina.

**Chart temporarily affected – Aus 236**

**262(T)/2009 AUSTRALIA - QUEENSLAND - Moreton Bay - Deception Bay - Wreck salvaged***Former Notice - 212(T)/2009 is cancelled*

Maritime Safety Queensland Notice 115(T)/2009 (AA387673)

Cancel this notice on receipt.

**Chart formerly affected – Aus 236****263(T)/2009 AUSTRALIA - QUEENSLAND - Pumicestone Channel - Wreck salvaged***Former Notice - 1300(T)/2008 is cancelled*

Maritime Safety Queensland Notice 101/2009 (AA386107)

Cancel this notice on receipt.

**Chart formerly affected – Aus 235 – Aus 236****264(T)/2009 AUSTRALIA - QUEENSLAND - Shoalwater Bay - Live firing completed***Former Notice - 93(T)/2009 is cancelled*

Maritime Safety Queensland Notice 113/2009 (AA386959)

Cancel this notice on receipt.

**Chart formerly affected – Aus 260 – Aus 261 – Aus 367 – Aus 822 – AX 60260 - AU423150 - AU5261P2****265(T)/2009 AUSTRALIA - QUEENSLAND - Slade Island - Light buoy re-established***Former Notice - 169(T)/2009 is cancelled*

Maritime Safety Queensland Notice 97(T)/2009 (AA386115)

Cancel this notice on receipt.

**Chart formerly affected – Aus 249 – Aus 250 - AU5250P1****266(P)/2009 AUSTRALIA - QUEENSLAND - Hydrographers Passage - Depths**

Australian Hydrographic Service (AA389270), Geoscience Australia (GA2447)

A bathymetric survey undertaken for geomorphic purposes indicates less water exists on the following shoals:

| <i>Position</i>            | <i>Charted depth</i> | <i>New depth</i> |
|----------------------------|----------------------|------------------|
| 19° 46'.29 S 150° 18'.96 E | 17                   | 15.4             |
| 19° 47'.89 S 150° 20'.85 E | 16.2                 | 12.2             |
| 19° 47'.99 S 150° 21'.74 E | 26                   | 23.4             |
| 19° 48'.63 S 150° 23'.12 E | 19.1                 | 16.2             |
| 19° 52'.08 S 150° 27'.74 E | 17.4                 | 12.5             |

An additional hydrographic survey will be undertaken to confirm least depths on the shoals prior to permanent charting action.

**Chart which will be affected – Aus 821 - AU420150****267(T)/2009 AUSTRALIA - QUEENSLAND - Townsville - Ross River - Dredging operations***Date - Until 9 April 2009*

Maritime Safety Queensland Notice 111(T)/2009 (AA386961)

The dredge *Elke-D* and support vessel are conducting dredging operations in the Ross River Channel (19° 15'.83 S 146° 50'.43 E).

The dredge will display appropriate lights and shapes and will monitor VHF Ch 12 and Ch 16.

Mariners are advised to navigate with caution in the area.

**Chart temporarily affected – Aus 256 – Aus 257 - AU5XX257**

**268(T)/2009 AUSTRALIA - TIMOR SEA - Van Cloon Shoal - Seismic survey southeastwards***Date* - Until 31 March 2009

Albers Group (AA388163, AA388164)

RV *Duke* will be conducting a survey in the area bounded by (WGS84 datum):

12° 38'.54 S 126° 44'.11 E

12° 38'.56 S 126° 58'.76 E

12° 59'.86 S 127° 17'.50 E

13° 14'.22 S 127° 23'.87 E

13° 18'.93 S 127° 22'.34 E

13° 18'.75 S 126° 43'.25 E

13° 04'.47 S 126° 32'.11 E

12° 51'.62 S 126° 27'.01 E

**Chart temporarily affected – Aus 315 – Aus 318 – Aus 4721 (INT 721) – AX 0315F – AX 4721F - AU313126 - AU313127 - AU414126****269(T)/2009 AUSTRALIA - WESTERN AUSTRALIA - Packer Island to North Head - Scientific instruments***Former Notice* - 884(T)/2008 is cancelled*Date* - Until 31 July 2009

MetOcean Engineers (AA386757)

Scientific instruments exist as follows:

| <i>Position</i>            | <i>Remarks</i> |
|----------------------------|----------------|
| 16° 29'.56 S 122° 21'.91 E | subsurface     |
| 16° 42'.45 S 122° 27'.96 E | subsurface     |
| 16° 47'.23 S 122° 32'.18 E | subsurface     |

**Chart temporarily affected – Aus 323****270(T)/2009 AUSTRALIA - WESTERN AUSTRALIA - Lacepede Channel to James Price Point - Scientific instruments***Former Notice* - 885(T)/2008 is cancelled*Date* - Until 31 July 2009

MetOcean Engineers (AA386757)

Scientific instruments exist as follows (WGS84 datum):

| <i>Position</i>            | <i>Remarks</i> |
|----------------------------|----------------|
| 17° 01'.25 S 122° 05'.26 E | subsurface     |
| 17° 13'.93 S 122° 05'.06 E | subsurface     |
| 17° 28'.27 S 122° 05'.03 E | subsurface     |
| 17° 30'.07 S 121° 53'.45 E | subsurface     |

**Chart temporarily affected – Aus 323 – Aus 324****271(T)/2009 AUSTRALIA - WESTERN AUSTRALIA - Cape Latouche Treville - Scientific instrument***Date* - Until 31 July 2009

MetOcean Engineers (AA386757)

A scientific instrument exists in position 18° 24'.26 S 121° 39'.03 E (WGS84 datum).

**Chart temporarily affected – Aus 324**

**272(T)/2009 AUSTRALIA - WESTERN AUSTRALIA - Alkimos Reef - Scientific instruments**

Date - Until 28 February 2010

MetOcean Engineers (AA387852)

Scientific instruments exist as follows:

| <i>Position</i>            | <i>Remarks</i>             |
|----------------------------|----------------------------|
| 31° 37'.13 S 115° 38'.38 E | lit buoy, <i>Fl. Y.20s</i> |
| 31° 37'.11 S 115° 38'.40 E | 5 poly floats              |

**Chart temporarily affected – Aus 334 – Aus 754 – AX 0334E – AX 0754E – AX 66002 - AU432115****273(T)/2009 AUSTRALIA - WESTERN AUSTRALIA - Fremantle - Anchorages**

Fremantle Ports Notice 1(T)/2009 (AA387280)

Anchorages with a 500 metre radius swinging circle exist as follows:

| <i>Desig</i> | <i>Position</i>            |
|--------------|----------------------------|
| O1           | 31° 53'.23 S 115° 38'.91 E |
| O2           | 31° 54'.04 S 115° 39'.25 E |
| O3           | 31° 54'.49 S 115° 40'.14 E |
| O4           | 31° 55'.07 S 115° 39'.07 E |
| O5           | 31° 55'.58 S 115° 39'.88 E |
| O6           | 31° 55'.94 S 115° 38'.94 E |
| O7           | 31° 56'.44 S 115° 39'.79 E |

**Chart temporarily affected – Aus 112 – Aus 754 – AX 0754E – AX 63112 – AX 66002****274(T)/2009 AUSTRALIA - TASMANIA - Storm Bay - Scientific instruments**

Date - Until 31 March 2010

Marine and Safety Tasmania M27/2009 (AA386833)

Scientific instruments exist as follows:

| <i>Position</i>          | <i>Remarks</i> |
|--------------------------|----------------|
| 43° 12'.0 S 147° 33'.0 E | subsurface     |
| 43° 18'.0 S 147° 39'.6 E | subsurface     |
| 43° 18'.0 S 147° 39'.7 E | subsurface     |

**Chart temporarily affected – Aus 795 – Aus 796****275(T)/2009 AUSTRALIA - VICTORIA - Port Phillip - Entrance Deep - Underwater survey completed***Former Notice - 1324(T)/2008 is cancelled*

Victorian Notice 13(T)/2009 (AA382861)

Cancel this notice on receipt.

**Chart formerly affected – Aus 143 – Aus 144 – Aus 158 - AU439144****276(T)/2009 AUSTRALIA - VICTORIA - Port Phillip - Rip Bank - Survey operations**

Date - Until 19 March 2009

Victorian Notice 24(T)/2009 (AA387398)

Towed video surveys of the Rip Bank (38° 17'.65 S 144° 38'.00 E) and Nepean Bank (38° 17'.83. S 144° 38'.37 E) plateaus will be conducted during the period 18 February 2009 to 18 March 2009.

The surveys will commence at times of predicted slack water and will work around shipping activities in the entrance to Port Phillip.

The vessels *Barwon Pride* and *Random Sea* require 15 minutes to clear the channel and can be contacted on VHF Ch 12 or mobile numbers 0417553299 (*Barwon Pride*) and 0419390459 (*Random Sea*).

**Chart temporarily affected – Aus 143 – Aus 144 – Aus 158 – Aus 788 - AU439144**

**277(T)/2009 AUSTRALIA - VICTORIA - Port Phillip - Restricted areas**

Former Notice - 991(T)/2008 is cancelled  
 Victorian Notice 23(T)/2009 (AA387424)

A restricted access area has been declared around the dredge vessels and the barge during their operation or presence in Port Phillip and Yarra River as follows:

In Yarra River an area comprising the Port of Melbourne waters and any part of Port of Melbourne land that is within 100 metres radius of the dredges *Queen of the Netherlands*, *Cornelis Zanen* or *Prins der Nederlanden*, when either vessel is in Yarra River, north of an imaginary line connecting 37° 51'.17 S 144° 54'.48 E and 37° 50'.97 S 144° 54'.75 E.

In Port Phillip around the dredge vessels an area comprising the Port of Melbourne waters and any part of port of Melbourne land that is within 200 metres radius of the dredges *Queen of the Netherlands*, *Cornelis Zanen* or *Prins der Nederlanden*, when either vessel is south of an imaginary line connecting 37° 51'.17 S 144°54'.48 E and 37° 50'.97 S 144° 54'.75 E, being an area within Port Phillip (including Hobsons Bay) or at the Entrance (including the waters of Bass Strait).

In Port Phillip around the POMBAA Barge an area comprising the Port of Melbourne waters that is within 750 metres radius of the barge and any replacement or additional barge used or intended for the transfer of dredged materials from a dredge vessel to the Port of Melbourne dredged material ground.

Further details regarding the operations can be obtained from the Port of Melbourne Corporation's Channel Deepening website [www.channelproject.com](http://www.channelproject.com) or on telephone 1-800 731 022.

Mariners are advised to navigate with caution in the area.

**Chart temporarily affected – Aus 143 – Aus 144 – Aus 154 – Aus 155 – Aus 158 - AU438144 - AU439144 - AU5XX154**

**278(T)/2009 AUSTRALIA - VICTORIA - Port Phillip - Port Melbourne - Beacon upgrade works**

Date - Until 31 August 2009  
 Victorian Notice 27/2009 (AA388906)

Beacon upgrade works are in progress in South Channel (38° 18'.2 S 144° 44'.2 E), Port Melbourne Channel (37° 56'.0 S 144° 55'.6 E) and Williamstown Channel (37° 51'.8 S 144° 55'.2 E).

Works will be conducted between 07.00 and 18.00 hrs with workboats and barges positioned outside the channel toeline.

Mariners are advised to navigate with caution in the area.

**Chart temporarily affected – Aus 143 – Aus 144 – Aus 154 – Aus 155 – Aus 158 - AU438144 - AU439144 - AU5XX154**

## HYDROGRAPHIC REPORTS

| <i>Locality</i>         | <i>Report</i>                | <i>Ship/Authority</i>       | <i>Observer</i> |
|-------------------------|------------------------------|-----------------------------|-----------------|
| QLD-<br>Thursday Island | Mooring buoys<br>Obstruction | RNOTI                       | R Priest        |
| Keats Island            | Wreck                        | <i>MV Pacific Responder</i> | M Colettis      |

**NAVIGATION WARNINGS**

The following radio messages have been received during the period to 27 February 2009. Signal copies of these messages may be destroyed. It is recommended that the reprint of Navigational Warnings should be kept in a file or a book divided into areas. Cancellation should be made on receipt of signals and reprints.

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

**AUSCOAST WARNING**

- 040 Cancelled.  
 041 Drill rig *Ensco 106* in position 20° 26'.83 S 115° 07'.20 E. 2.5M clearance requested.  
 042 Cancelled.  
 043 Cancelled.  
 044 Special purpose vessel *Highland Navigator* conducting seismic survey in area 19° 54'.00 S to 20° 18'.00 S and 115° 07'.00 E to 116° 40'.00 E. 2.5M clearance requested.  
 045 Cancelled.  
 046 Cancelled.  
 047 Drill rig *Songa Mercur* in position 21° 32'.70 S 114° 05'.69 E. 2.5M clearance requested.  
 048 Special purpose vessel *Audacia* conducting cable laying operations in position 19° 55'.00 S 115° 08'.00 E. 1M clearance requested.  
 049 Cancelled.  
 050 Drill rig *Ocean Epoch* in position 21° 31'.54 S 114° 06'.30 E. 2.5M clearance requested.  
 051 Joan Reef light K1890 (13° 56'.80 S 144° 20'.42 E) altered. Sectors red 135°-317°, white 317°-135°.  
 052 Cancelled.  
 053 Cancelled.  
 054 Drill rig *Songa Venus* in position 14° 07'.00 S 122° 55'.00 E. 2.5M clearance requested.

**NAVAREA X WARNINGS**

- 005 Cancelled.

**Navigational warnings in force as at 270001UTC FEB 09.****Auscoast**

**2008** 340 353 368 370 374 390 401

**2009** 007 014 020 027 028 041 044 047 048 050 051 054

**Navarea X**

001

**Summary of mobile drilling rigs as at 270001UTC FEB 09.**

| <i>Name</i>  | <i>Position</i>             |
|--------------|-----------------------------|
| West Atlas   | 12° 40'.30 S 124° 32'.40 E  |
| Stena Clyde  | 13° 08'.24 S 123° 08'.24 E  |
| Songa Venus  | 14° 07'.00 S 122° 55'.00 E  |
| Sedco 703    | 13° 59'.20 S 121° 58'.33 E  |
| Ocean Bounty | 19° 25'.10 S 116° 29'.90 E  |
| Atwood Eagle | 19° 23'.28 S 114° 18'.10 E  |
| Ensco 106    | 20° 26'.83 S 115° 07'.20 E  |
| Nan Hai 6    | 21° 26'.02 S 114° 01'.60 E  |
| Ocean Epoch  | 21° 31'.54 S 114° 06'.30 E  |
| Songa Mercur | 21° 32'.70 S 114° 05'.69 E. |

**NAVAREA XIV WARNINGS**

Nil.

**Navarea XIV warnings in force as at 270001UTC FEB 09.**

**2008** 085

**2009** 002 003