

10 November 2023 Edition 23

# AUSTRALIAN NOTICES TO MARINERS

# Notices 949 - 987

Published fortnightly by the Australian Hydrographic Office



Australian Notices to Mariners are the authority for correcting charts and publications published by the Australian Hydrographic Office covering Australia, Papua New Guinea, Solomon Islands, Australian Antarctic Territory and Timor-Leste.

Commodore R.L. PHILLIPS RAN Hydrographer of Australia

# SECTIONS.

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

# SUPPLEMENTS.

- I. Tracings
- II. Cumulative List of Australian Notices to Mariners.
- III. Cumulative List of Temporary and Preliminary Australian Notices to Mariners.
- IV. Temporary and Preliminary Notices in force.

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#### **IMPORTANT NOTICE**

This edition of Notices to Mariners includes all significant information affecting AHO products which the AHO 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 AHO regards third parties from which it receives information as reliable, however the AHO cannot verify all such information and errors may therefore exist. The AHO does not accept liability for errors in third party information.

#### **GENERAL INSTRUCTIONS**

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

Bearings are referred to the true compass and are reckoned clockwise from North; those relating to lights are given as seen by an observer from seaward.

Positions quoted in notices relate to WGS84 which is the horizontal datum for all charts produced by the Australian Hydrographic Office.

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.

## REPORTING OF DANGERS

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

# **AUTHORISED USE**

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

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

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# 949 AUSTRALIA - Products - New Charts, New Editions, Withdrawn Charts Australian Hydrographic Office

| Australian Hydrographic Onice        |  |                                |                                   |   |
|--------------------------------------|--|--------------------------------|-----------------------------------|---|
| New Charts<br>Chart<br>NIL           | Title and Geographical limits  | Scale                          | Publication Date                  | Remarks   |
| New Electro<br>Cell Name<br>AU5BUY01 | nic Navigation Chart (Aus ENC)<br>Title<br>Australia - Western Australia - West C                                  | Coast -                        | Publication Date 2 November 2023  | Remarks<br>AU5115P1 is withdrawn  |
| AU5EPR01                             | Bunbury<br>Australia - Western Australia - South (   | Coast -                        | 2 November 2023                   | AU5119P1 is withdrawn   |
| AU5CPN01                             | Esperance<br>Australia - Western Australia - North \   | West Shelf -                   | 2 November 2023                   | AU5068P1 is withdrawn   |
| AU5MDU01                             | Cape Preston<br>Australia - Western Australia - West C   | Coast -                        | 2 November 2023                   | AU5116P1 is withdrawn   |
| AU5BME01                             | Mandurah<br>Australia - Western Australia - North V  | West Shelf -                   | 2 November 2023                   | AU5050P0 is withdrawn   |
| AU5CTI01                             | Broome<br>Australia - Western Australia - North (<br>Cockatoo Island   | Coast -                        | 9 November 2023                   | AU5041P1 is withdrawn.  |
| <i>Chart</i><br>Aus 249              | s and Withdrawn Charts<br><i>Title</i><br>Australia - East Coast - Queensland -                                    | <i>Scale</i> 1:75 000          | Publication Date 10 November 2023 | Remarks<br>New edition with general   |
| (Edition 8)                          | Approaches to Hay Point and Mackay   |                                |                                   | updating throughout; including updates to traffic services. Chart Aus 249 Edition 7 dated 31 Mar 2023 is now superseded and must be withdrawn from use.   |
| Aus 250<br>(Edition 8)               | Australia - East Coast - Queensland -<br>Plans of Hay Point and Mackay<br>Harbour<br>Plans:<br>Hay Point<br>Mackay | 1:15 000<br>1:10 000           | 10 November 2023                  | New edition with general updating throughout; including new bathymetric data.  Chart Aus 250 Edition 7 dated 31 Mar 2023 is now superseded and must be  |
| Aus 609<br>(Edition 3)               | South Pacific Ocean - Norfolk Island<br>Plans:<br>Cascade Bay<br>Sydney Bay<br>Norfolk and Phillip Islands         | 1:7 500<br>1:7 500<br>1:37 500 | 10 November 2023                  | withdrawn from use.  New edition with general updating throughout; including new bathymetric data.  Chart Aus 609 Edition 2 dated 14 Jun 2019 is now superseded and must be withdrawn from use. |
| Aus 821<br>(Edition 7)               | Australia - East Coast - Queensland -<br>Hydrographers Passage   | 1:150 000                      | 10 November 2023                  | New edition with general updating throughout; including new bathymetric data.  Chart Aus 821 Edition 6 dated 7 Jan 2022 is now  |

10 November 2023 5

superseded and must be withdrawn from use.

#### 949 AUSTRALIA - Products - New Charts, New Editions, Withdrawn Charts

**New Editions and Withdrawn Charts** (continued)

Chart Title Scale Publication Date Remarks

Aus 824 Australia - East Coast - Queensland - 1:150 000 10 November 2023 New edition with general (Edition 5) Penrith Island to Whitsunday Island updating throughout;

updating throughout; including new bathymetric

data.

Chart Aus 824 Edition 4 dated 7 Jan 2022 is now superseded and must be withdrawn from use.

## Papua New Guinea National Tide Tables 2024

Remarks

The Papua New Guinea National Tide Tables 2024 provides tidal information for Papua New Guinea ports. Now available as a pdf download from the AHO website products download page (www.hydro.gov.au/webapps/jsp/downloads/products.jsp).

#### **Solomon Islands National Tide Tables 2024**

Remarks

The Solomon Islands National Tide Tables 2024 provides tidal information for Solomon Islands ports. Now available as a pdf download from the AHO website products download page (<a href="https://www.hydro.gov.au/webapps/jsp/downloads/products.jsp">www.hydro.gov.au/webapps/jsp/downloads/products.jsp</a>).

#### **Timor Leste National Tide Tables 2024**

Remarks

The Timor Leste National Tide Tables 2024 provides tidal information for Timor Leste ports. Now available as a pdf download from the AHO website products download page (<a href="https://www.hydro.gov.au/webapps/jsp/downloads/products.jsp">www.hydro.gov.au/webapps/jsp/downloads/products.jsp</a>).

# Chart permanently withdrawn

Charts listed above as withdrawn no longer meet chart carriage requirements and should be marked as "superseded" and replaced with the new chart/ new edition listed prior to passage through the area covered by the new chart.

When placing orders with a chart agent between notice of forthcoming edition and its publication, mariners should advise whether their order pertains to the current edition or the new edition.

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

# 950 AUSTRALIA - Products - New Charts and New Editions to be published shortly

Australian Hydrographic Office

New Charts to be published shortly

Chart Title Scale Remarks

NIL

New Editions to be published shortly

Chart Title Scale Remarks
Aus 823 Australia - East Coast - Queensland - Percy Isles to Mackav 1:150 000 New edition with

Aus 823 Australia - East Coast - Queensland - Percy Isles to Mackay 1:150 000 New edition with general updating throughout;

including new bathymetric data.

# 951 AUSTRALIA - AusTides 2024

Australian Hydrographic Office

Mariners are advised of two errors in AusTides2024.

Predicted tidal stream data should only be obtained from the numerical table beneath the flow-rate graph. The graph displaying flow-rate amplitudes over time must be disregarded. Note that tidal height predictions are unaffected.

Zulu time predictions for Secondary ports have twice the number of hours subtracted. For example, Christmas Island has a standard time of UTC+7. However, when you ask the app to display or export predictions in Zulu, it gives times that are effectively UTC-7 (i.e. UTC+7 à UTC/Zulu à UTC-7).

Please action this notice until further advice.

# 952 AUSTRALIA - NEW SOUTH WALES - Botany Bay - Artificial reef

Port Authority of New South Wales

Aus 198 [383/2023]

Insert fish haven with minimum depth, 4<sub>a</sub>m, centred on 33° 59'.443 S 151° 11'.841 E

# 953 AUSTRALIA - NEW SOUTH WALES - Port Stephens - South Pindimar - Light beacons

Australian Hydrographic Office

Aus 209 [NE 13/10/2023]

| Replace | beacon with south cardinal light beacon, VQ(6)+LFI.10s, with topmark | 32° 41′.31 S | 152° 05'.94 E |
|---------|--|--------------|---------------|
|         | beacon with south cardinal light beacon, Q(6)+LFI.15s, with topmark  | 32° 41'.42 S | 152° 04'.97 E |

# 954 AUSTRALIA - QUEENSLAND - Dolphin Heads to Bailey Islet - Depths; ZOC diagram

Department of Defence

Aus 251 [6/2022]

| Insert | accompanying block B accompanying block A | 20° 58'.9 S<br>21° 02'.4 S | 149° 36'.9 E<br>149° 11'.0 E |
|--------|---|----------------------------|------------------------------|
| Amend  | magenta legend to A1                      | 21° 02'.6 S                | 149° 03'.3 E                 |

# 955 AUSTRALIA - QUEENSLAND - North Stradbroke Island - Scientific instruments northeastwards CSIRO

# Aus 4602 (INT 602) [549/2023]

| Delete | depth, 40m, and enclosing danger circle and legend, ODAS | 27° 13'.0 S | 154° 39'.0 E |
|--------|--|-------------|--------------|
|        | depth, 40m, and enclosing danger circle and legend, ODAS | 27° 15'.0 S | 154° 18'.0 E |
|        | depth, 40m, and enclosing danger circle and legend, ODAS | 27° 18'.0 S | 154° 08'.0 E |

# 956 AUSTRALIA - QUEENSLAND - Point Lookout - Scientific instrument southeastwards

Maritime Safety Queensland Notice 486/2023

Aus 814 [924/2023]

| Move | light buoy | 27° 29'.4 S  | 153° 38'.0 E  |
|------|------------|--------------|---------------|
|      | to         | 27° 29'.21 S | 153° 38'.03 E |

AUSTRALIA - TORRES STRAIT - Horn Island - Wasaga - Wrecks

957

#### Maritime Safety Queensland Aus 293 [346/2023] 10° 35'.55 S 142° 14'.64 E Replace wreck depth, 5<sub>6</sub>m, with wreck depth, 6m Aus 299 [346/2023] depth, 6<sub>5</sub>m, enclosed by danger circle with legend, Wk 10° 35'.603 S 142° 14'.623 E Insert Replace wreck depth, 5<sub>e</sub>m, with wreck depth, 6m 10° 35'.55 S 142° 14'.64 E AUSTRALIA - TORRES STRAIT - Larpent Bank - Rock; virtual AIS 958 Australian Maritime Safety Authority Final ATH 15/2023 Aus 296 [123/2023] out of position isolated danger virtual AIS 10° 34'.337 S 142° 04'.040 E Insert 10° 34'.396 S 142° 04'.021 E legend, R 959 AUSTRALIA - TORRES STRAIT - Proudfoot Shoal to Bramble Patches - Depths **Fugro** Aus 301 [796/2023] depth, 13om, with depth, 10cm 10° 34'.9 S 141° 40'.6 E Replace Aus 700 [179/2023] depth, 105m, enclosed by contour 10° 32'.48 S 141° 25'.23 E Insert depth, 10m, enclosed by contour 10° 32'.77 S 141° 40'.25 E depth, 12,m, enclosed by contour 10° 33'.93 S 141° 23'.45 E Replace depth, 13<sub>6</sub>m, with depth, 7<sub>2</sub>m, enclosed by contour 10° 31'.7 S 141° 39'.0 E depth, 13<sub>o</sub>m, with depth, 10<sub>e</sub>m 10° 34'.9 S 141° 40'.6 E Aus 842 [123/2023] 141° 25'.23 E Insert depth, 10<sub>5</sub>m, enclosed by contour 10° 32'.48 S depth, 10m, enclosed by contour 10° 32'.77 S 141° 40'.25 E 10° 31'.7 S 141° 39'.0 F Replace depth, 13<sub>e</sub>m, with depth, 7<sub>e</sub>m, enclosed by contour 960 TIMOR-LESTE - Caitehu to Hera - Tidal panel Australian Hydrographic Office Aus 904 [NC 17/2/2023] 8° 35'.4 S Insert 125° 32'.2 E accompanying block 961 TIMOR-LESTE - Selat Ombai - Depths Department of Defence Aus 312 [716/2022] Insert accompanying block 8° 31'.0 S 125° 41'.0 E Aus 313 [415/2020] 125° 24'.0 E 8° 31'.0 S Insert accompanying block accompanying ZOC diagram 8° 44'.0 S 126° 05'.0 E Aus 321 [57/2020] 8° 30'.0 S accompanying block 125° 13'.0 E Insert

#### Ī 962 AUSTRALIA - WESTERN AUSTRALIA - Montebello Islands - Well northwestwards Woodside Energy Ltd Aus 328 [801/2023] depth, 201m, enclosed by danger circle with legend, Well 20° 02'.11 S 115° 06'.55 E Insert 963 AUSTRALIA - WESTERN AUSTRALIA - North West Cape - Mooring buoy; platform northwestwards Woodside Energy Ltd Aus 328 [962/2023] 21° 28'.9 S 114° 00'.5 E Delete lit mooring buoy Aus 329 [801/2023] Delete lit mooring buoy 21° 28'.9 S 114° 00'.5 E Aus 744 [260/2023] lit mooring buoy 21° 28'.9 S 114° 00'.5 E Delete Aus 4060 (INT 60) [549/2023] Delete lit platform 21° 28'.9 S 114° 00'.5 E Aus 4070 (INT 70) [606/2023] 21° 28'.9 S 114° 00'.5 E Delete lit mooring buoy Aus 4071 (INT 71) [606/2023] 21° 28'.9 S 114° 00'.5 E Delete lit mooring buoy Aus 4708 (INT 708) [524/2023] 21° 28'.9 S Delete lit mooring buoy 114° 00'.5 E Aus 4723 (INT 723) [557/2023] Delete lit mooring buoy 21° 28'.9 S 114° 00'.5 E 964 AUSTRALIA - SOUTH AUSTRALIA - Wirrina Cove - Light; navline Department for Infrastructure and Transport SA Notice 63/2023 Aus 347 [478/2023] Delete 35° 30'.1 S 138° 14'.4 E light

| 965   | SOUTHERN OCEAN - Flying Scud Rock - Depth southwestwards |
|-------|--|
| CSIRO | , ,  |

continuous line with legend 181.5°, emanating from light

Aus 780 [558/2023]

light

Delete

 Aus 794 [699/2023]

 Insert
 depth, 392m, enclosed by contour
 44° 04'.16 S
 146° 29'.03 E

35° 30'.1 S

35° 30'.1 S

138° 14'.4 E 138° 14'.4 E

966 AUSTRALIA - VICTORIA - Port Phillip - Point Lonsdale to Capel Sound - Wrecks Australian Hydrographic Office

Aus 143 [803/2023]
Replace wreck depth,  $9_2$ m, with wreck depth,  $8_4$ m 38° 20'.5 S 144° 52'.3 E

Aus 144 [655/2023]
Replace wreck depth,  $1_9$ m, with wreck depth,  $1_7$ m 38° 17'.78 S 144° 36'.91 E wreck depth,  $2_1$ m, with wreck depth,  $1_3$ m 38° 17'.82 S 144° 37'.04 E

967 AUSTRALIA - TASMANIA - Burnie - Emu Bay - Depths Veris Aus 163 [NE 23/6/2023] 41° 03'.4 S accompanying block 145° 55'.3 E Insert 968 **AUSTRALIA - TASMANIA - Devonport - Depths** Veris Aus 164 [804/2023] depth, 8<sub>8</sub>m, with depth, 9m 41° 09'.84 S 146° 22'.18 E Replace 969 AUSTRALIA - TASMANIA - King Island - Depths Department of Defence Aus 349 [698/2023] depth, 14,m, enclosed by contour 39° 44'.24 S 144° 07'.02 E Insert 39° 34'.1 S 143° 52'.1 E Replace depth, 145m, with depth, 151m depth, 15m, with depth, 11<sub>9</sub>m 39° 34'.9 S 143° 53'.5 E depth, 128m, with depth, 128m 39° 43'.2 S 144° 07'.9 E Delete depth, 29m, and enclosing contour 39° 46'.8 S 144° 13'.6 E Aus 487 [806/2023]

39° 43'.16 S

39° 46'.8 S

144° 07'.83 E

144° 13'.6 E

Insert

Delete

depth, 113m, enclosed by contour

depth, 29m, and enclosing contour

# 970(T)/2023 AUSTRALIA - NEW SOUTH WALES - Broken Bay - Military exercise eastwards completed

Former Notice - 888(T)/2023 is cancelled

Department of Defence

Cancel this notice on receipt.

Chart formerly affected - Aus 200 - Aus 204 - Aus 808 - Aus 809

# 971(T)/2023 AUSTRALIA - QUEENSLAND - Hay Point - Mooring buoys removed

Former Notice - 757(T)/2023 is cancelled Maritime Safety Queensland Notice 468/2023

Cancel this notice on receipt.

Chart formerly affected - Aus 249 - Aus 250

### 972(T)/2023 AUSTRALIA - QUEENSLAND - Laguna Quays - Shoaling; navaids

Former Notice - 286(T)/2020 is cancelled Maritime Safety Queensland Notice 475/2023

Shoaling exists within the entrance channel and waterways around the Laguna Quays Marina (20° 36'.0 S 148° 41'.0 E).

Navaids marking the entrance channel and in the marina may not be operational.

Mariners are advised to navigate with caution in the area.

Chart temporarily affected - Aus 252

## 973(T)/2023 AUSTRALIA - QUEENSLAND - Whitsunday Passage - Exclusion zone removed

Former Notice - 711(T)/2023 is cancelled

Maritime Safety Queensland

Cancel this notice on receipt.

Chart formerly affected - Aus 252 - Aus 253 - Aus 824

#### 974(T)/2023 PAPUA NEW GUINEA - Buka Passage - Light beacon unlit

National Maritime Safety Authority PNG Coastal Navigation Warning 23/2023

The light beacon, Fl.2.5s 7m 10M (5° 24'.39 S 154° 42'.69 E), is unlit.

Chart temporarily affected - Aus 399 - Aus 4622 (INT 622) - PNG 397 - PNG 684

# 975(T)/2023 PAPUA NEW GUINEA - Rabaul - Light unlit

National Maritime Safety Authority PNG Coastal Navigation Warning 24/2023

The light, Fl.5s 38m 8M (4° 11'.71 S 152° 10'.08 E), is unlit.

Chart temporarily affected - PNG 680

# 976(T)/2023 AUSTRALIA - TORRES STRAIT - Thursday Island - Mooring buoy removed

Maritime Safety Queensland Notice 479(T)/2023

The lit mooring buoy, Fl.Y.2·5s (10° 35'.20 S 142° 13'.27 E), has been temporarily removed; an isolated danger light buoy, Fl.2s, exists in situ.

Chart temporarily affected - Aus 293 - Aus 299

# 977(T)/2023 TIMOR-LESTE - Dili - Shoaling charted

Former Notice - 361(P)/2022 is cancelled Department of Defence

Cancel this notice on receipt.

Chart formerly affected - Aus 312 - Aus 313 - Aus 321

# 978(P)/2023 AUSTRALIA - WESTERN AUSTRALIA - Cape Leeuwin - Historic wreck southwards

Australian Hydrographic Office

Latest survey indicates that the charted historic wreck in position 34° 25'.36 S 115° 08'.24 E is out of position and the actual position is 34° 25'.26 S 115° 08'.34 E.

Charts will be updated in due course.

Chart which will be affected - Aus 116

#### 979(T)/2023 AUSTRALIA - WESTERN AUSTRALIA - Exmouth Plateau - Survey operations

Former Notice - 576(T)/2023 is cancelled

Shearwater

On or about 14 November 2023, MV *Geo Coral*, with an 8334m towed array, and support vessels *Mariska G*, *Limitless* and *No Limit* will be conducting survey operations in an area bounded by the following positions:

20° 24'.03 S 113° 06'.75 E

19° 59'.97 S 112° 36'.13 E

19° 20'.66 S 113° 06'.69 E

19° 13'.42 S 113° 33'.82 E

19° 29'.69 S 113° 54'.53 E

19° 54'.70 S 113° 37'.67 E.

Mariners are advised to navigate with caution in the area. 8M clearance requested.

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

# 980(T)/2023 AUSTRALIA - WESTERN AUSTRALIA - Hilarys Boat Harbour - Light buoy damaged and unlit

Department of Transport WA Notice 5860/2023

The special light buoy, Fl. Y.5s (31° 49'.89 S 115° 44'.31 E), is damaged and unlit.

Chart temporarily affected - Aus 754

#### 981(P)/2023 AUSTRALIA - WESTERN AUSTRALIA - Karrakatta Rock - Historic wreck

MMA Offshore

Latest survey indicates that the charted historic wreck in position 16° 21'.28 S 123° 02'.12 E is out of position and the actual position is 16° 20'.47 S 123° 02'.49 E.

Charts will be updated in due course.

Chart which will be affected - Aus 732 - Aus 733

# 982(T)/2023 AUSTRALIA - WESTERN AUSTRALIA - Mermaid Reef - Scientific instrument

The University of Western Australia

A special light buoy, *Fl.Y.2·5s*, exists in position 17° 05'.57 S 119° 35'.34 E.

Chart temporarily affected - Aus 325

#### 983(T)/2023 AUSTRALIA - WESTERN AUSTRALIA - Onslow - Beadon Creek - Harbour works completed

Former Notice - 653(T)/2021 is cancelled

Department of Transport WA

Cancel this notice on receipt.

#### Chart formerly affected - Aus 64

# 984(T)/2023 AUSTRALIA - WESTERN AUSTRALIA - Thevenard Island to Muiron Islands - Removal works northwestwards completed

Former Notice - 866(T)/2023 is cancelled Woodside Energy Ltd

Cancel this notice on receipt.

·

Chart formerly affected - Aus 328 - Aus 329 - Aus 743 - Aus 744

# 985(T)/2023 AUSTRALIA - VICTORIA - Port Phillip - Wyndham Marina - Light relit

Former Notice - 295(T)/2022 is cancelled

Parks Victoria Notice 431/2023

Cancel this notice on receipt.

Chart formerly affected - Aus 143 - Aus 155

# 986(T)/2023 AUSTRALIA - TASMANIA - Port Arthur - Scientific instruments recovered

Former Notice - 638(T)/2023 is cancelled

Marine and Safety Tasmania Notice M375(T)/2023

Cancel this notice on receipt.

Chart formerly affected - Aus 171 - Aus 796 - Aus 797

#### 987(P)/2023 SOLOMON ISLANDS - Lungga Roads - Shoaling

Aero Asahi Corporation

Latest survey indicates shoaler depths than those charted may exist in an area bounded by the following positions:

9° 24'.09 S 160° 01'.79 E

9° 24'.09 S 160° 01'.66 E

9° 24'.32 S 160° 01'.11 E

9° 25′.27 S 160° 00′.28 E

9° 25′.43 S 160° 00′.40 E

9° 24'.58 S 160° 01'.12 E

9° 24'.30 S 160° 01'.60 E

9° 24'.32 S 160° 01'.79 E.

Mariners are advised to navigate with caution in the area.

Charts will be updated in due course.

Chart which will be affected - SLB 101

# **HYDROGRAPHIC REPORTS**

NIL