



Australian Notices to Mariners are the authority for correcting Australian Charts

# AUSTRALIAN NOTICES TO MARINERS

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Notices 427-445

Published fortnightly by the Australian Hydrographic Office



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Hydrographer, RAN

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

**New Zealand Notices to Mariners**

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

**Notices to Mariners information relating to British Admiralty Publications unavailable on this web site at this stage but still available in printed form:-**

- Section II. Corrections to Admiralty List of Lights, Vol K.**
- Section V. Corrections to Admiralty List of Radio Signals.**
- Section VI. Corrections to Sailing Directions.**

*Bearings are referred to the true compass and are reckoned clockwise from 000° (North) to 359°: those relating to lights are given as seen by an observer from seaward. The range quoted for a light is its nominal range. Fog signals are sounded only during thick or foggy weather, unless otherwise stated. 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.*

**Mariners are particularly requested to notify the AUSTRALIAN HYDROGRAPHIC OFFICE, Locked Bag 8801 South Coast Mail Centre, NSW 2521 (Fax 02-4221 8599), e-mail [hni.hydro@navy.gov.au](mailto:hni.hydro@navy.gov.au) or, alternatively by filling in and submitting the **Hydrographic Notes** forms, 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).**

Copies of these notices can be obtained from the AUSTRALIAN HYDROGRAPHIC OFFICE, 8 Station Street, Wollongong, the Agents for the sale of Australian and Admiralty charts in Australia, and from the Australian Maritime Safety Authority (AMSA) Offices, in the major ports of Australia

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## NUMERICAL INDEX OF CHARTS AFFECTED

Edition No 15

23 July 1999

Notices	Aus Chart
427.....	Aus 164,303,64604,64620
428.....	Aus 200
429.....	Aus 365,366,426,817,818
430.....	Aus 372,828
431.....	Aus 262
432.....	Aus 15
433.....	Aus 323,413,415, 4603 (INT 603)
434.....	Aus 115
435.....	Aus 173,354,422,795, 4060 (INT 60), 4601 (INT 601)
436.....	Aus 171
437(T) .....	Aus 814
438(T) .....	Aus 237
439(P) .....	Aus 371,827
440(T) .....	Aus 262
441(P) .....	Aus 375,834
442(P) .....	Aus 376,377,378,840,4620
443(T) .....	Aus 788
444(T) .....	Aus 182
445(T) .....	Australia - GPS roll over

**427 AUSTRALIA - Publications.**

HS RAN (99/4679 &amp; 4654). (AH99/139,226,228)

**New edition**

Chart	Published	Title and description of amendments	Scale	Folio	Index Chart	Price
Aus 303	28/5/99	Australia - North Coast - Queensland - Nassau River to Wellesley Islands Plan	1:300 000	8	Aus 5020A	\$25.00
		Investigator Road	1:75 000			
		<i>Updating throughout, plan of Investigator Strait scale increased and plans of Karumba removed.</i>				

Note: former notice 335(P)/99 is cancelled

**New miscellaneous chart**

Chart	Published	Title and description of amendments	Scale	Remarks
Aus 64604	28/5/99	Crocodile 99 Exercise Chart	1:3 500 000	Fleet use only
Aus 64620	28/5/99	Crocodile 99 Exercise Chart	1:1 500 000	Fleet use only

**New edition to be published shortly**

Chart	Title	Scale
Aus 164	Australia - Tasmania - Approaches to Devonport	1:37 500
	Plans:	
	Devonport	1:7 500
	Ulverstone	1:7 500

**New edition of Admiralty publication**

NP No	Title	Date	RRP (UK)	Remarks
NP 285	Admiralty List of Radio Signals. Global Maritime Distress and Safety System.	17/6/99	£25:00	The 1998/99 Edition is thereby cancelled.

**Chart permanently withdrawn**

Chart	On publication of new edition
Aus 303	Aus 303

**428\* AUSTRALIA - NEW SOUTH WALES - Port Jackson - Darling Harbour - Harbour works.**

HS RAN (99/4653). (AH 99/290)

**Aus 200 [175/99]**Insert [accompanying block](#) 33° 52'.2 S 151° 11'.8 E

**429\* AUSTRALIA - QUEENSLAND - Breaksea Spit - Light buoy; light vessel discontinued.**

Former Notice - 256(P)/99 is cancelled

List of Lights Vol K/99 -- 2934.00

AMSA ATH 1999/021 (99/4434) (AH 99/14)

**Aus 365 [409/99]**

Substitute	north cardinal pillar light buoy, Q, with topmark and Racon G, for light vessel	24° 21'.2 S	153° 08'.8 E
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Delete	legend, Breaksea Spit, centred on	24° 21' S	153° 10' E
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**Aus 366 [372/99]**

Substitute	north cardinal pillar light buoy, Q, with topmark and Racon G, for light vessel	24° 21'.2 S	153° 08'.8 E
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Delete	legend, Breaksea Spit, centred on	24° 21' S	153° 11' E
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**Aus 426 [412/99]**

Substitute	north cardinal pillar light buoy, Q, with topmark and Racon G, for light vessel	24° 21'.2 S	153° 08'.8 E
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Delete	legend, Breaksea Spit, centred on	24° 19' S	153° 12' E
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**Aus 817 [559/98]**

Substitute	north cardinal pillar light buoy, Q, with topmark and Racon G, for light vessel	24° 21'.2 S	153° 08'.8 E
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Delete	legend, Breaksea Spit, centred on	24° 21' S	153° 08' E
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**Aus 818 [560/98]**

Substitute	north cardinal pillar light buoy, Q, with topmark and Racon G, for light vessel	24° 21'.2 S	153° 08'.8 E
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Delete	legend, Breaksea Spit, centred on	24° 21' S	153° 10' E
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**430\* AUSTRALIA - QUEENSLAND - Myrmidon Reef - Tower.**

AIMS (99/2560). (AH 99/276)

**Aus 372 [370/98]**

Move	tower	18° 16'.6 S	147° 23'.1 E
	to, and amend height to 33ft	18° 16'.55 S	147° 22'.83 E

**Aus 828 [78/99]**

Move	tower	18° 16'.6 S	147° 23'.1 E
	to, and amend height to 10m	18° 16'.55 S	147° 22'.83 E

**431\* AUSTRALIA - QUEENSLAND - Cairns - Leading lights relocated.**

Former Notice - 396(P)/99 is cancelled

List of Lights Vol K/99 -- 3180.00,3180.10

Cairns Port Authority (99/4748) (AH 99/15)

**Aus 262 [375/99]**

Move	rear leading light	(a)	16° 54'.09 S	145° 47'.24 E
	to	(b)	16° 54'.029 S	145° 47'.269 E
	front leading light		16° 54'.42 S	145° 47'.17 E
	to		16° 54'.394 S	145° 47'.181 E

Insert      pecked line from light at (b) extending in a direction 193°  
03' 1200 metres thence a firm line for 2850 metres, with  
legend 013° 03'

Delete      leading line, with legend 013°, emanating from the light at  
(a)

**Aus 262 (plan, Port of Cairns)**

Insert	firm line, with legend 013° 03', between	16° 55'.093 S	145° 47'.012 E
		16° 56'.168 S	145° 46'.754 E

Delete	leading line, with legend 013°, between	16° 55'.09 S	145° 47'.01 E
		16° 56'.15 S	145° 46'.75 E

**432\* AUSTRALIA - NORTHERN TERRITORY - Gove - Dundas Point - Buoys.**

Nabalco Pty Ltd (99/4712) (AH 99/27)

**Aus 15 (plan, Gove Inner Harbour) [296/99]**

Move	port spherical buoy	12° 12'.60 S	136° 40'.44 E
	to	12° 12'.619 S	136° 40'.465 E
	port spherical buoy	12° 12'.67 S	136° 40'.60 E
	to	12° 12'.689 S	136° 40'.601 E
	isolated danger spherical light buoy	12° 12'.50 S	136° 40'.68 E
	to	12° 12'.542 S	136° 40'.655 E
	starboard spherical buoy	12° 12'.47 S	136° 40'.63 E
	to	12° 12'.487 S	136° 40'.630 E
	port spherical buoy	12° 12'.47 S	136° 40'.55 E
	to	12° 12'.514 S	136° 40'.538 E
	port spherical buoy	12° 12'.29 S	136° 40'.68 E
	to	12° 12'.307 S	136° 40'.689 E

Insert	port spherical buoy	12° 12'.395 S	136° 40'.625 E
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**433\* WESTERN AUSTRALIA - Lynher Bank - Depth.**

Woodside (99/4711) (AH 97/95)

**Aus 323 [155/99]**

Insert	depth, 27 <sub>1</sub> m, enclosed by contour	15° 38'.81 S	122° 06'.51 E
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**Aus 413 [377/98]**

Insert	depth, 15fm, enclosed by contour	15° 38'.8 S	122° 06'.5 E
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**Aus 415 [416/99]**

Insert	depth, 27 <sub>1</sub> m, enclosed by contour	15° 38'.8 S	122° 06'.5 E
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**Aus 4603 (INT 603) [416/99]**

Insert	depth, 27m, enclosed by contour	15° 39' S	122° 07' E
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**434\* WESTERN AUSTRALIA - Bunbury - Spoil ground.**

Sinclair Knight Merz (99/4655). (AH 99/331)

**Aus 115 [635/98]**Amend spoil ground limits centred on  
to

33° 16'.0 S	115° 39'.5 E
33° 15'.70 S	115° 39'.25 E
33° 15'.70 S	115° 39'.65 E
33° 16'.80 S	115° 39'.65 E
33° 16'.80 S	115° 39'.25 E

**Aus 115 (plan, Port of Bunbury)**Amend spoil ground limits centred on  
to N border

33° 16'.5 S	115° 39'.5 E
	115° 39'.65 E
33° 16'.80 S	115° 39'.65 E
33° 16'.80 S	115° 39'.25 E
	115° 39'.25 E

N border

**435\* AUSTRALIA - TASMANIA - Whale Head - Light established.**

Former Notice - 361(P)/99 is cancelled

List of Lights Vol K/99 -- 3655.30

AMSA (99/4715). (AH 99/38)

**Aus 173 [320/99]**Insert light, Fl(2) 15s 57m 18M, with arc of visibility 223°-079°  
(216°)

43° 38'.313 S 146° 52'.202 E

**Aus 354 [271/99]**Insert light, Fl(2) 15s 187ft 18M, with arc of visibility 223°-079°  
(216°)

43° 38'.31 S 146° 52'.20 E

**Aus 422 [321/99]**

Insert light, Fl(2) 15s 18M

43° 38'.3 S 146° 52'.2 E

**Aus 795 [72/99]**Insert light, Fl(2) 15s 187ft 18M, with arc of visibility 223°-079°  
(216°)

43° 38'.31 S 146° 52'.20 E

**Aus 4060 (INT 60) [352/99]**

Insert light

43° 38' S 146° 52' E

**Aus 4601 (INT 601) [508/98]**

Insert light

43° 38' S 146° 52' E

**436\* AUSTRALIA - TASMANIA - Nubeena - Light.**

AMSA (99/4468). (AH 99/38)

**Aus 171 [568/98]**

Insert light, Fl. 1.5s

43° 06'.32 S 147° 44'.40 E

**437(T)/99 AUSTRALIA - QUEENSLAND - Gold Coast - Main Beach - Artificial reef; buoys.**

*Date* - Until 1 January 2000

Queensland Transport Notice 291/99 (99/4647). (AH 99/381)

An artificial reef is under construction in position 27° 59'.30 S 153° 26'.22 E. The extremities of the work is marked by special light buoys, Fl. Y. 3s, in positions:

27° 59'.09 S 153° 26'.22 E

27° 59'.48 S 153° 26'.22 E

Mariners are advised to navigate with caution in the area.

**Chart temporarily affected - Aus 814.**

**438(T)/99 AUSTRALIA - QUEENSLAND - Brisbane River - Fisherman Islands - Dredging completed; buoy removed.**

*Former Notices* - 506(T)/97 & 187(T)/98 are cancelled

Queensland Transport Notice 167/99 (99/2786). (AH 99/323)

Cancel this notice on receipt.

**Chart formerly affected - Aus 237**

**439(P)/99 AUSTRALIA - QUEENSLAND - Cape Bowling Green - Light buoy postponed.**

*Former Notice* - 279(P)/99 is cancelled

AMSA (99/4853). (AH 99/13)

Cancel this notice on receipt.

**Chart formerly affected - Aus 371 - Aus 827**

**440(T)/99 AUSTRALIA - QUEENSLAND - Cairns - Harbour works.**

*Date* - Until 28 February 2000

Queensland Transport Notice 305/99 (99/4851). (AH 99/382)

A wave protection system is under construction around Marlin Marina between:

16° 55'.328 S 145° 46'.914 E

16° 55'.341 S 145° 46'.971 E

16° 54'.992 S 145° 47'.053 E

16° 54'.983 S 145° 46'.991 E

16° 54'.982 S 145° 46'.912 E

Three special light buoys, Q. Y, exist as follows:

16° 55'.02 S 145° 46'.89 E

16° 55'.12 S 145° 46'.97 E

16° 55'.14 S 145° 46'.97 E

Mariners should navigate with caution in the area.

**Chart temporarily affected - Aus 262.**

**441(P)/99 AUSTRALIA - QUEENSLAND - Chapman Island - Light alteration postponed.**

*Former Notice* - 398(P)/99 is cancelled

AMSA (99/4854). (AH 99/15)

Cancel this notice on receipt

**Chart formerly affected - Aus 375 - Aus 834.**

**442(P)/99 AUSTRALIA - TORRES STRAIT - Bramble Cay - Light alteration postponed.**

*Former Notice* - 399(P)/99 is cancelled

AMSA (99/4854). (AH 99/15)

Cancel this notice on receipt.

**Chart formerly affected - Aus 376 - Aus 377 - Aus 378 - Aus 840 - Aus 4620**

**443(T)/99 AUSTRALIA - VICTORIA - Apollo Bay - Shoaling.**

*Former Notice* - 331(T)/98 is cancelled  
Victorian Notice 30/99 (99/3789). (AH 99/147)

Cancel this notice on receipt.

**Chart formerly affected - Aus 788**

**444(T)/99 AUSTRALIA - VICTORIA - Lakes Entrance - Reeves Channel - Dredging complete.**

*Former Notice* - 205(T)/99 is cancelled  
Victorian Notice 37/99 (99/4649). (AH 99/147)

Cancel this notice on receipt.

**Chart formerly affected - Aus 182**

**445(T)/99 AUSTRALIA - GPS roll over.**

*Date* - Until 31 August 1999  
AMSA (99/4296). (AH 99/52)

This notice is to inform users of GPS receivers of the potential for problems to occur due to *GPS roll over* issue.

**The Problem**

The GPS receiver problem is related to the first *roll over* of the 1024 week GPS clock cycle which will occur at midnight (UTC) 21 August 1999. Sometimes called epoch roll over or just roll over, this is a separate problem to the Year 2000 computer issue.

**GPS Timing**

All GPS systems keep GPS time. GPS time is maintained as weeks and seconds, beginning with week number one on 6 January 1980 when the system was initialised. GPS time is included as a data field in the navigational message transmitted by each satellite. Some GPS systems have limited storage space for this time information and can only store a maximum number of 1023 weeks. In these systems 1024 week would be interpreted as 0.

The week numbers are presently in the 1000's. When GPS week 1024 begins, the count will roll over and begin again as GPS week zero. This process will be repeated every 1024 weeks, in GPS terms an epoch (about 19.5 years). The GPS week will reset to zero at midnight on the evening of 21 August 1999. Any effects should be readily apparent the following day. Many GPS systems are known to be unable to make the transition from the first 1024 week cycle into the second cycle. During this time, the internal clocks of these GPS receivers will experience a lack of absolute reference and may give the wrong time and position, or may freeze or lock up permanently. Some will be repairable with an upgrade and some may no longer be useable.

**Basic Receiver Tests**

There are two basic tests a receiver should pass in order to be able to successfully make the transition. The first is to correctly accommodate the live transition of the new 1024 week cycle. The second is to cold start correctly in the new cycle (ie satellite acquisition by first principles).

Owners of GPS/DGPS receivers are strongly advised to check with the suppliers of their equipment regarding the status of their particular receiver in regards to this problem.

**III  
NAVIGATION WARNINGS**

The following radio messages have been received during the period to 9 July 1999. 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 WARNINGS**

- 215 Cancelled.
- 216 Cancelled.
- 217 Cancelled.
- 218 Cancelled.
- 219 Cancelled.
- 220 Cancelled.
- 221 NW Coast. Drill rig *Ensco 56* in position 20° 35'.4 S 115° 39'.0 E 2.5M clearance requested.
- 222 SE Coast. MV *Canning Tide* engaged in pipe trenching operations in area 38° 28' S to 38° 34' S and 148° 20' E to 148° 33' E, 2.0M clearance requested.
- 223 Cancelled.
- 224 NW Coast. Seismic survey vessel *Geco Beta* towing 3.2M cables in area 13° 45' S to 14° 31' S and 122° 15' E to 123° 05' E.
- 225 SE Coast. Grassy Harbour light K2191 (40° 04'.3 S 144° 03'.6 E) unlit

**NAVAREA X WARNINGS**

- 023 Timor Sea. Drill rig *Ocean Epoch* in position 11° 15'.8 S 125° 41'.0 E 2.5M clearance requested.

**Navigational warnings in force as at 081500UTC JUN 99.**

**Auscoast**

**1999** 086 132 162 180 185 187 197 198 199 212 219 221 222 224 225.

**Navarea X**

023.

**Summary of mobile drilling rigs as at 081500UTC JUL 99.**

Name	Position
Ron Tappmeyer	10° 40'.3 S 126° 06'.1 E
Ocean Epoch	11° 15'.8 S 125° 41'.0 E
Ensco 56	20° 35'.4 S 115° 39'.0 E
Sedco 703	21° 27'.7 S 113° 59'.2 E
Sedco 702	38° 32'.5 S 148° 33'.2 E

**NAVAREA XIV WARNINGS**

- 071 Cancelled.
- 072 Cancelled.
- 073 Cancelled.
- 074 Fiji. Udu Point light K4748 (16° 07'.0 S 179° 57'.0 W) unlit.
- 075 Cancelled.
- 076 Cancelled.
- 077 Cancelled.
- 078 Cancelled.
- 079 Cancelled.
- 080 Cancelled.
- 081 Cancelled.
- 082 Cancelled.
- 083 Cancelled.

**Navarea XIV warnings in force as at 080001UTC JUL 99.**

**1999** 057 074.

## IV

## HYDROGRAPHIC REPORTS

<i>Locality</i>	<i>Report</i>	<i>Ship/Authority</i>	<i>Observer</i>
QLD- Swain Reefs	Depths	<i>MV Cape Grafton</i>	AR Codrington
NSW- Cabbage Tree island	Fish farm		P Lowe
VIC- Webb dock	Beacons	Oceania	DG Sadler
TAS- Mays Point	Radio masts		P Dunne
INDONESIA- Gelasa Strait	Soundings	<i>HMAS Melbourne</i>	