

# INDIAN

CHARTS AND PUBLICATIONS  
(Original, Authentic and most up-to-date)



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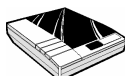
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## INDIAN NOTICES TO MARINERS Edition No. 04, dated 15 FEB 2003 (Notices 92 – 124)

### CONTENTS

- I. Index of Charts Affected.
- II. Permanent Notices.
- III. Temporary and Preliminary Notices.
- IV. Marine Information.
- V. Radio Navigational Warnings.
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- VIII. Correction to List of Radio Signals.

Mariners are requested to notify the Chief Hydrographer to the Government of India, National Hydrographic Office, Post Box No. 75, Dehradun -248001, INDIA [Fax: 0091- (135) - 748373 Grams: Hydro Dehradun immediately on the discovery of new dangers or suspected dangers to navigation and of changes or defects in aids to navigation. A Hydrographic Note (IH 102), which is a convenient form on which to send in a report, is attached with Notices to Mariners Editions dated 1<sup>st</sup> January, 1<sup>st</sup> April, 1<sup>st</sup> July and 1<sup>st</sup> October.

KR Srinivasan  
Rear Admiral  
Chief Hydrographer  
to the Government of India

(Published on 1<sup>st</sup> and 15<sup>th</sup> of every month)

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## EXPLANATORY NOTES

**Charts and Positions** The Notices in section II give instructions for the corrections of Indian and Admiralty Charts including the information on new Indian Charts and Publications. Geographical positions refer to the horizontal datum of the current edition of the largest scale chart unless otherwise stated. Bearings are true reckoned clockwise from 000° to 359°; those relating to lights are from seaward. Symbols referred to are those shown on the chart 5020.

Alterations to depth contours, deletion of depths to make way for new detail, etc; are not mentioned unless they have some navigational significance.

Blocks and notes, if any, accompanying notices in Section II are placed after Section VIII.

**Temporary and Preliminary Notices** These are indicated by (T) and (P) after the notice number and are placed in Section III. A list of those in force published quarterly and text are published in Annual Edition of Indian Notices to Mariners. Charts are not corrected for them before issue, they should be corrected in pencil on receipt.

**Original Information** A star adjacent to the number of a notice indicates that the notice is based on original information.

**Sailing Directions** Corrections or the sailing Directions are given in Section VI. A summary of corrections in force will be issued in Section VI of the Edition dated 1st January, 1st April, 1st July and 1st October.

**Lights** When a light is affected by a notice its Lights List number is quoted. The correction of the Light List is given in Section VII and should be incorporated as per instructions given on page 11 of the list of Lights. It may be published in earlier or later Edition than the chart correcting notice.

The range of a light is the nominal range; geographical range is given in parenthesis if less than the nominal range.

**Radio Signals** The corrections in Section VIII should be cut and pasted in the appropriate volumes of the List of Radio Signals.

**Radio Navigational Warnings** Updating information is published by fortnightly Notices to Mariners supplemented by the radio warnings for items of immediate importance. It should be borne in mind that they may be based on reports which can not always be verified before promulgation, and that is some time necessary to be selective and promulgate only the more important items to avoid over loading users; the reminder being included in the revised Edition of the charts and publications concerned.

**Laws and Regulations** While in the interest of the safety of shipping, the Hydrographic Office makes every endeavour to include in its publications details of the laws and regulations of all countries pertaining to navigation, it must be clearly understood: -

- (a) that no liability whatsoever can be accepted for failure to publish details of any particular law or regulation, and
- (b) that publication of details of a law or regulation is solely for the safety and convenience of shipping and implies no recognition of the International validity of the law or regulation.

**Correction of Charts and Publications by the users** Indian Notices to Mariners contains important information and should be used to keep the specified charts and books up to date.

### **THE USE OF CHARTS AND ASSOCIATED PUBLICATIONS**

**Reliance on Charts and Associated Publications** While every effort is made to ensure the accuracy of the information on Indian charts and other publication, it should be appreciated that it may not always be complete and up-to-date. The mariners must be the final judge of the reliance he can place on the information given, bearing in mind his particular circumstances, local pilotage guidance and judicious use of available navigational aids.

The positions of Hydrographic objects shown on the Indian charts and publications are given in Everest datum. However, the positions of vessels obtained from Global Positioning System (GPS) are on World Geodetic System 1984 datum. There will always exist variation in position obtained by visual fixing (Everest Datum) and GPS position (WGS 84 datum). Before plotting GPS positions on charts, datum shift values given on the chart are to be applied in order to agree with the charted position. These datum shift values are not uniform, particularly in areas off Andaman & Nicobar and

Lakshdweep Islands, as these places are not strictly adjusted to mainland network (datum). Mariners are advised to use alternate source of position information particularly when closing the shore or navigating in the vicinity of danger.

**Charts** Charts should be used with prudence; there are areas where the source data are old incomplete or of poor quality. The mariners should use largest scales appropriate for his particular purpose; apart from being the most detailed, the larger scale are usually corrected first. When extensive information (such as new hydrographic survey) is received, some months must elapse before it can be fully incorporated in published charts.

On small-scale charts of ocean areas where hydrographic information is, in many cases still sparse, charted shoal may be in error as regards position, least depth and extent. Undiscovered dangers may exist particularly away from well-established routes.

**Further Guidance** The mariner's Hand Book (NP 100) gives full explanation of the limitation of charts. In their own interest, all users should study it.



## II

### PERMANENT NOTICES

#### INDIAN HYDROGRAPHIC CHARTS AND PUBLICATIONS

\*92 (04/03)

(a): NEW INDIAN CHARTS

<u>Chart No.</u>	<u>Date of Publication</u>	<u>Title, Limit &amp; Description</u>	<u>Scale</u>	<u>folio</u>	<u>Price (Rs)</u>
408	31.12.2002	ANDAMAN SEA – INDIA ANDAMAN ISLANDS <b>CHOWRA ISLAND</b> <b>TO</b> <b>NANCOWRY HARBOUR</b> <u>Limits</u> 07° 48'.00N., 08° 40'.00N. 92° 44'.00E., 94° 04'.00E.	1:150 000	6	1000.00
472 (INT 7032)	31.12.2002	BAY OF BENGAL AND ANDAMAN SEA INDIA – ANDAMAN AND NICOBAR ISLANDS <b>NICOBAR ISLANDS</b> <u>Limits</u> 06° 15'.00N., 10° 49'.80N. 91° 30'.00E., 94° 30'.40E.	1:500 000	6	1000.00
7070 (INT 70)	31.12.2002	INDIAN OCEAN <b>SOUTHERN PART</b> <u>Limits</u> 51° 05'.40S., 2° 44'.90S. 24° 50'.00E., 116° 27'.50E.	1:10 000 000	1	1000.00
7508 (INT 508)	01.01.2003	PACIFIC OCEAN <b>SOUTH CHINA SEA</b> <u>Limits</u> 09° 00'.00S., 24° 00'.00N. 99° 00'.00E., 121° 05'.00E.	1:3 500 000	1	1000.00

(b): INDIAN CHARTS PERMANENTLY WITHDRAWN

<u>Chart to be withdrawn</u>	<u>Main Title</u>	<u>On Publication of New Chart</u>
408	CHOWRA I. TO NANCOWRY HR	408
472	LITTLE ANDAMAN ISLAND TO GREAT NICOBAR ISLAND	472 (INT 7032)
7070 (INT 70)	INDIAN OCEAN SOUTHERN PART	7070 (INT 70)
7508 (INT 508)	SOUTH CHINA SEA	7508 (INT 508)

## II

### (c): CHARTS AFFECTED BY THE FOREGOING

<u>Chart No.</u>	<u>Last Correction</u>	<u>Details</u>
33	79/03	Delete existing Magenta limit and Chart Number 472 as follows:- <u>Limits:</u> North: 10° 53' 00"N. East: East border South: 06° 25' 00"N. West: 91° 35' 00"E. Insert new Magenta limit and Chart Number 472 (INT 7032) as follows:- <u>Limits:</u> North: 10° 49'.80N. East: East border South: 06° 15'.00N. West: 91° 30'.00E.
41	474/02	Delete existing Magenta limit and Chart Number 472 as follows:- <u>Limits:</u> North: 10° 53' 00"N. East: 94° 30' 00"E. South: 06° 25' 00"N. West: 91° 35' 00"E. Insert new Magenta limit and Chart Number 472 (INT 7032) as follows:- <u>Limits:</u> North: 10° 49'.80N. East: 94° 30'.40E. South: 06° 15'.00N. West: 91° 30'.00E.
325	184/01	Delete existing Magenta limit and Chart Number 3023 as follows:- <u>Limits:</u> North: 16° 01' 00"N. East: 94° 27' 18"E. South: 15° 33' 12"N. West: 94° 04' 30"E. and North: 16° 26' 44"N. East: 94° 43' 30"E. South: 15° 59' 00"N. West: 94° 19' 30"E. and North: 16° 50' 41"N. East: 94° 45' 00"E. South: 16° 23' 00"N. West: 94° 39' 00"E. Insert new Magenta limit and Chart Number 3023 as follows:- <u>Limits:</u> North: 16° 12'.00N. East: 94° 34'.00E. South: 15° 31'.30N. West: 94° 06'.66E. and North: 16° 50'.00N. East: 94° 46'.00E. South: 16° 07'.64N. West: 94° 28'.00E.

(NHO Dehradun: HJ/NM/Pub)

### \*93 (04/03) Amendments in Indian Annual Notices to Mariners No. 29 of 2003

- (a) Insert accompanying text after chart number 360. (Page 7)
- (b) Read chart number 3001 (INT 7402) for chart number 3001. (page 14)
- (c) Read year of publication 2000 for 2001 for chart 2102. (page 14)
- (d) Substitute accompanying text for chart number 4030. (page 17)
- (e) Read year of publication 1997 for 1986 for chart 2046. (page 11)
- (f) Delete charts numbers 3027 & 4006 with details. (page 15)

(NHO, Dehradun: HJ/NM/Gen)

### 94 (04/03) AFRICA – East Coast – Tanzania – Pangani River – Buoyage; Beacon

- |        |   |  |
|--------|---|--|
| Insert | starboard-hand conical light-buoy, <i>Fl.G. 10s No 1</i>    | 5° 26'.39S., 38° 59'.80E.                                  |
| Delete | port-hand can light-buoy, <i>Q.R No 2</i><br>"Pangani" buoy | (a) 5° 26'.23S., 38° 59'.50E.<br>5° 26'.57S., 39° 00'.14E. |

## II

black conical buoy  
red, white, black, ○ Bn (PA) 12ft high

210m ESE. of (a) above  
close SW. of (a) above

**Chart** [*Last correction*]: – **B.A. 865 (plan, Entrance to Pangani River)** [12/12/1930]

(B.A. Notice 648/03: HJ/834/41)

### 95 (04/03) ARABIA – Oman – Khalij Masirah – Depths

Insert depth 16m with seabed character, *R*, and extend 20m contour  
N. to enclose

(a) 20° 04'.80N., 58° 05'.70E.  
close S. of (a) above

Delete Depth 17<sub>6</sub> m

**Chart** [*Last correction*]: – **B.A. 3785** [437/02]

(B.A. Notice 524/03: HJ/1132/01)

### 96 (04/03) ARABIA – Oman – Ra's Jibsh Eastwards – Depths

Insert depth 198m enclosed by 200m contour

(a) 21° 30'.80N., 59° 39'.80E.  
close SW. of (a) above

Delete Depth 216 m

**Chart** [*Last correction*]: – **21 (a)** [36/03] – **B.A. 2851** [71/03]

(B.A. Notice 525/03: HJ/1132/10)

### 97 (04/03) ARABIA – Oman – Ra's al Hadd Southeastwards – Depth

Insert depth 401m enclosed by 1000m contour

22° 24'.5N., 59° 59'.4E.

**Chart** [*Last correction*]: – **290** [230/01] – **21** [96/03] – **B.A. 2851** [96/03] – **2858** [383/99]

(B.A. Notice 526/03: HJ/1132/20)

### 98 (04/03) ARABIA – United Arab Emirates – Sir Bani Yas Northeastwards – Buoy

Amend No 10 light-buoy to, *Q, R*

24° 21'.72N., 52° 40'.42E.

**Chart** [*Last correction*]: – **B.A. 3780** [34/03]

(B.A. Notice 527/03: HJ/1132/47)

### 99 (04/03) ARABIA – Kuwait – Mina Ash Shu 'aybah – Petroleum Products Pier Eastwards – Foul

Insert ○ *Foul*, least depth 16<sub>5</sub>m

29° 02'.603N., 48° 10'.598E.

**Chart** [*Last correction*]: – **B.A. 1223 (plan B, Mina' Ash Shu 'aybah and Mina' Al Ahmadi) & (plan A, Mina' ' Abd Allah, Mina' Ash Shu 'aybah and Mina' Al Ahmadi)** [*New Edition 16/5/02*] – **3773** [300/02]

(B.A. Notice 649/03: HJ/1133/91)

### 100 (04/03) ARABIA – Kuwait – Khawr 'Abd Allah – Wrecks

Insert 

29° 55'.01N., 48° 18'.60E.

 *PA ED*

29° 54'.42N., 48° 18'.92E.



(a) 29° 51'.34N., 48° 24'.48E.

**Chart** [*Last correction*]: – **B.A. 1235** [75/03] – **2884 (a)** [76/03]

(B.A. Notice 799/03: HJ/1133/91)

## II

### 101 (04/03) ARABIA – Iran – Damagheh-ye Meydan Southwestwards – Legend


Insert legend, *Depths less than 183m Reported (1975)* 25° 12'.0N., 58° 50'.0E.


**Chart** [*Last correction*]: – 20 [78/03] – 21 [97/03]– **B.A. 2851** [97/03]

(B.A. Notice 528/03: HJ/1132/51)

### \*102 (04/03) INDIA – West Coast – Gulf of Kuchchh – Buoy

#### **Cancel former INM 61 (T) 03**


Insert  Paga with top mark, *VQ(3) 5s* 22° 35'.40N., 69° 14'.40E.

Delete  Paga with top mark, *VQ(3) 5s* 22° 35'.20N., 69° 14'.40E.

**Chart** [*Last correction*]: – 2055 [296/02] – 2068 [*New Chart 31/03/02*] – 203 [186/02]

(Navarea VIII 72/03: HJ/1131/20)

### \*103 (04/03) INDIA – West Coast – Off Pipavav Port – Data buoy

Insert SW1  ODAS with radar reflector and  
beacon light, *Fl 2.5s 4M* 20° 53'.27N., 71° 29'.70E.

SW1  ODAS with radar reflector 20° 52'.50N., 71° 29'.52E.

*Note:* Mariners are strongly advised not to anchor or trawl in the operation circle of 500 m from moored data buoy.

**Chart** [*Last correction*]: – 2100 [79/03] – 2081 [79/03] – 2056 [79/03]

(NIOT Chennai: HJ/1130/08)

### \*104 (04/03) INDIA – West Coast – Honavar Port – Sharavati River – Buoy

Insert North channel marking buoy 14° 17'.60N., 74° 25'.18E.

South channel marking buoy 14° 17'.47N., 74° 25'.34E.

*Note:* These buoys are laid to ensure safe navigation over the bar and are fitted with solar light.

**Chart** [*Last correction*]: – 2024 [30/11/93] – 216 [401/02]

(Honavar Port: HJ/1030/45)

### \*105 (04/03) INDIA – West Coast – Approaches to Kochi – Submarine cable


Insert submarine cable joining:

(a)	10° 08'.326N., 76° 10'.760E.(shore)
(b)	10° 08'.283N., 76° 10'.625E.
(c)	10° 07'.902N., 76° 09'.424E.
(d)	10° 07'.759N., 76° 08'.559E.
(e)	10° 07'.466N., 76° 07'.560E.
(f)	10° 05'.703N., 76° 00'.059E.
(g)	10° 04'.270N., 75° 53'.636E.
(h)	10° 03'.874N., 75° 51'.391E.

**Chart** [*Last correction*]: – 2029 (INT 7358) (a-g) [*New Chart 15/03/01*] – 220 [*New Chart 31/07/02*] – 259 (INT 7356) [382/02] – 22 [79/03] – 32 [79/03] – 7703 (INT 703) [414/02] – 7706 (INT 706) [37/03]

(VSNL Mumbai: HJ/1030/03)

### \*106 (04/03) INDIA – West Coast – Off Thangassery Port – Anchorage

Insert  centred on: 08° 51'.5N., 76° 34'.4E.

**Chart** [*Last correction*]: – 2032 [273/91] – 221 [118/01] – 222 [*New Chart 31/05/01*]

(Port Department, Thiruvananthapuram: HJ/930/83)

## II

**107 (04/03) MALACCA STRAIT – Peninsular Malaysia – West Coast – Pulau Pinang Northwards – Submarine cable**

- Insert submarine cable joining:
- (a) 5° 33'.68N., 100° 20'.82E.  
(existing cable)
  - (b) 5° 33'.43N., 100° 19'.55E.
  - (c) 5° 35'.65N., 100° 16'.18E.
  - (d) 5° 35'.92N., 100° 14'.37E.
  - (e) 5° 37'.17N., 100° 10'.22E.
  - (f) 5° 38'.77N., 100° 06'.47E.  
(B.A.chart 1353, existing cable)
  - (g) 5° 38'.50N., 100° 07'.50E.  
(N. border)
  - (h) 5° 42'.4N., 99° 54'.6E.  
(N. border)
  - (i) 5° 43'.55N., 99° 50'.87E.



**Chart** [*Last correction*]: – **435** (a-f,i) [289/02] – **436** (a-g) [365/02] – **B.A. 1353** (f,h) [44/03]  
(B.A. Notice 652/03: HJ/927/59)

**108 (04/03) MALACCA STRAIT – Permatang Sedepa (One Fathom Bank) Southeastwards – Pasir Selatan – Light-beacon; Buoy; Depth**

- Move N. cardinal light-beacon with radar reflector, *Q.12m 11M*  
(chart 1358, *Q. 11M*), from:
- (a) 2° 40'.38N., 101° 06'.62E.
- to:
- (b) 2° 40'.76N., 101° 06'.58E.
- Q* (lighted) from:
- (c) 2° 40'.40N., 101° 06'.50E.
- to:
- (d) 2° 40'.75N., 101° 06'.50E.
- Delete N. cardinal pillar light-buoy, Q  
depth 16<sub>5</sub> m
- (e) close E. of (b) above
  - (f) close SE. of (b) above

**Chart** [*Last correction*]: – **B.A. 3940** (a,b,e,f) [138/02] – **3946** (a,b,e) [43/03] – **1358** (a,b) [44/03] – **5502** (c,d) [44/03]  
Light List Vol. F, 1618 (B.A. Notice 651/03: HJ/827/28)

**109 (04/03) SUMETERA – North-East Coast – Ujung Peureulak Northwards – Moored storage tanker**

- Delete  (lighted), Langsa Venture, (chart 41,  (lighted)) 5° 18'.93N., 98° 02'.80E.

**Chart** [*Last correction*]: – **41** [92/03] – **B.A. 3919** [275/02] – **2777** [425/02] – **1353** [107/03]  
Light List Vol. F, 1327.2 (B.A. Notice 653/03: HJ/1132/54)

**110 (04/03) SUMATERA – North-East Coast – P. Iyu Kecil to Kruenggeukueh – Aids to navigation**

- Insert the accompanying note, AIDS TO NAVIGATION,  
centred on:
- (a) title panel, below note,  
FISHING STAKES
  - (b) outside N. border, adjacent to  
note, IALA MARITIME BUOYAGE  
(REGION A)
  - (c) 1° 31'.25N., 101° 30'.00E.
  - (d) 2° 41'.35N., 100° 37'.85E.
  - (e) 4° 49'.20N., 96° 41'.50E.
  - (f) 4° 31'.80N., 97° 48'.90E.
  - (g) 3° 25'.00N., 98° 31'.80E.
  - (h) 3° 21'.20N., 101° 29'.50E.
  - (i) 2° 48'.20N., 102° 10'.00E.
  - (j) 1° 58'.10N., 103° 25'.70E.

## II

- (k) 2° 57'.00N., 98° 09'.60E.  
 (l) 0° 54'.00N., 100° 46'.00E.

**Chart** [*Last correction*]: – **B.A. 3574** (a) [170/02] – **3584** (b) [290/02] – **3933** (c) [459/02] – **3940** (d) [108/03] – **3919** (e) [109/03] – **3920** (f) [185/01] – **3921** (g) [476/02] – **3945** (h) [44/03] – **3946** (i) [108/03] – **3947** (j) [42/03] – **1353** (k) [109/03] – **1358** (l) [108/03]

(B.A. Notice 654/03: HJ/927/18)

**111 (04/03) SINGAPORE STRAIT – Singapore – Changi East – Angler Bank Northwestwards and Westwards – Buoy; Works**

- |        |   |     |   |
|--------|---|-----|---|
| Insert | port-hand can light-buoy, <i>Fl(3)R. 10s HKB1</i> | (a) | 1° 21'.58N., 104° 02'.40E.                        |
| Delete | limit of works area, pecked line, joining:        | (b) | 1° 19'.45N., 104° 02'.11E.<br>(restricted limit)  |
|        |   | (c) | 1° 19'.93N., 104° 02'.17E.<br>(Source data panel) |
|        |   | (d) | 1° 21'.34N., 104° 02'.36E. (shore)                |
|        | legend, Works in progress (1999), centred on:     | (e) | 1° 19'.75N., 104° 02'.05E.                        |
|        |   | (f) | 1° 20'.30N., 104° 01'.80E.                        |
|        | legend, Works in progress (1997), centred on:     | (g) | 1° 20'.68N., 104° 01'.88E.                        |

**Chart** [*Last correction*]: – **B.A. 4042** (b,c,e) [478/02] – **4043** (a,b,d,g) [443/02] – **4044** (a,b,d,g) [477/02] – **3831** (b,d,f) [457/02]

(B.A. Notice 533/03: HJ/827/80)

**112 (04/03) INDONESIA – Sumatera – East Coast – Pulau Batam, East Coast – Tanjung Bemban Southeastwards – Light-beacons; Buoyage**

- |        |   |     |                            |
|--------|---|-----|----------------------------|
| Insert | light-beacon, <i>Fl. 5s5M</i>                                       | (a) | 1° 09'.71N., 104° 08'.75E. |
|        | port-hand light-beacon with topmark, <i>Fl.R.5s9m5M No4</i>         | (b) | 1° 09'.73N., 104° 09'.10E. |
|        | starboard-hand light-beacon with topmark, <i>Fl.G.4s9m5M No3</i>    | (c) | 1° 09'.77N., 104° 09'.00E. |
|        | port-hand can light-buoy with topmark, <i>Fl.R.2s No2</i>           |     | 1° 09'.79N., 104° 09'.22E. |
|        | starboard-hand conical light-buoy with topmark, <i>Fl.G. 3s No1</i> |     | 1° 09'.83N., 104° 09'.24E. |

**Chart** [*Last correction*]: – **B.A. 4042** [111/03] – **3831** (a-c) [111/03]

Light List Vol. F, 1772.1, 1772.15, 1772.2

(B.A. Notice 532/03: HJ/927/25)

**113 (04/03) INDONESIA – Kalimantan – West Coast – Selat Karimata – Pulau Karimata Southeastwards and Serutu – Rocks; Depths; Less water; Light**

- |        |  |     |                            |
|--------|--|-----|----------------------------|
| Insert | ⊕  | (a) | 1° 43'.60S., 109° 08'.90E. |
|        |  | (b) | 1° 45'.05S., 109° 05'.70E. |
|        | depth 16 <sub>4</sub> m                              | (c) | 1° 45'.55S., 109° 20'.50E. |
|        | depth 16 <sub>1</sub> m                              |     | 1° 46'.80S., 109° 18'.80E. |
|        | Legend, <i>Less Water reported (1998)</i> , between: | (d) | 1° 52'.70S., 109° 12'.90E. |
|        |  | (e) | 1° 44'.50S., 109° 24'.20E. |
| Amend  | range of light to, <i>36M</i>                        | (f) | 1° 43'.10S., 108° 41'.70E. |
|        | light to, <i>Q(3)36M</i>                             | (g) | (f) above                  |
| Delete | depth 18 m   | (h) | close N. of (c) above      |

**Chart** [*Last correction*]: – **B.A. 3758** (a-f,h) [334/02] – **1312** (a,b,d,e) [457/02] – **941A** (g) [334/02]

Light List Vol. K, 1406

(B.A. Notice 682/03: HJ/827/80)

**114 (04/03) PENINSULAR MALAYSIA – East Coast – Pulau Aur Southeastwards – Wreck**

- |        |  |     |                            |
|--------|--|-----|----------------------------|
| Insert | ○ <i>Wk</i> , least depth 40m, (B.A. chart 3543, ○ <i>Wk</i> , least depth 22fm) | (a) | 2° 14'.80N., 104° 56'.65E. |
| Delete | ○ <i>Wk</i> , least depth 32m  | (b) | (a) above                  |
|        | ○ <i>Wk</i> , least depth 32m, (B.A. chart 3543, ○ <i>Wk</i> , least depth 17fm) | (c) | close NW. of (a) above     |

## II

**Chart** [*Last correction*]: – **B.A. 1311** (*a,c*) [457/02] – **3543** (*a,c*) [457/02] – **3482** (INT 550) (*b*) [242/02]  
(B.A. Notice 655/03: HJ/927/25)

**115 (04/03) PENINSULAR MALAYSIA – East Coast – Pulau Tenggol Westwards – Wreck**

Insert  4° 47'.86N., 103° 39'.40E.

**Chart** [*Last correction*]: – **B.A. 2414** [387/00] – **3482** (INT 550) [114/03] – **3543** [114/03]  
(B.A. Notice 656/03: HJ/927/46)

**116 (04/03) PENINSULAR MALAYSIA – East Coast – Pulau Perhentian Besar Northwards – Wreck**

Insert ○ *Wk*, least depth 13fm, (chart 7508, ○ *Wk*, least depth 24m) 6° 17'.13N., 102° 45'.29E.

**Chart** [*Last correction*]: – **7508** (INT 508) [*New Chart 01/01/03*] – **2414** [115/03]  
(B.A. Notice 657/03: HJ/927/67)

**117 (04/03) SOUTH CHINA SEA – Tapis Oilfield Northnortheast wards – Wreck**

Insert ○ *Wk*, least depth 12fm,  
(chart 7508 & B.A. 3482, ○ *Wk*, least depth 22m) 7° 16'.25N., 105° 43'.35E.

**Chart** [*Last correction*]: – **7508** (INT 508) [116/03] – **B.A. 2414** [116/03] – **3482** (INT 550) [115/03]  
(B.A. Notice 658/03: HJ/927/74)

### III

#### TEMPORARY AND PRELIMINARY NOTICES

##### **118 (P) (04/03) RED SEA – Sudan – Sawakin – Berths**

1. Mariners are advised that the following three new berths have been recently constructed at Sawakin Harbour
  - a. Asphalt Export Berth (Berth No.12) in position 19° 07'.421N., 37° 21'.005E. The length of this berth is 45m and the depth alongside is 8m.
  - b. Livestock Export Berth (Berth No.11) in position 19° 07'.412N., 37° 21'.186E. The length of this berth is 100m and the depth alongside is 6.5m.
  - c. Gas Exporting Berth (Berth No. 13) in position 19° 07'.937N., 37° 21'.477E. The length of this berth is 90m and the depth alongside is 9m.

**Chart affected – B.A. 81**

(B.A. Notice 484(P)/03: HJ/1031/03)

##### **\*119 (T) (04/03) INDIA – West Coast – Gulf of Kachchh – Buoys**

###### Cancel former INM 61(T)/2003

1. The following buoys are unlit:
  - (a) Gurur buoy 22° 35'.50N., 68° 58'.00E.
  - (b) Chandri buoy 22° 37'.00N., 69° 07'.40E.
  - (c) Kachchh buoy 22° 38'.00N., 69° 12'.80E.
  - (d) VLCC bouy 22° 35'.70N., 69° 16'.40E.
  - (e) Mithapur bouy 22° 24'.70N., 68° 51'.80E.
2. Mariners to exercise caution.

**Chart affected – 2031– 2055 – 2068 – 203**

(Navarea VIII 013 & 015/03: HJ/1131/20)

##### **\*120 (T) (04/03) INDIA – West Coast – Arabian Sea – Seismic survey**

1. Seismic survey in the following area is in progress by RV C-Explorer and will be completed by 15 May 2003.
  - (a) 20° 42'.0N., 72° 11'.0E.
  - (b) 20° 42'.0N., 72° 34'.0E.
  - (c) 20° 15'.0N., 72° 19'.0E.
  - (d) 20° 30'.0N., 72° 00'.0E.
2. Vessel towing three high voltage cables of 4,500 metres long with a light-flashing buoy at night attached at the end.
3. Mariners are advised to exercise caution and keep well clear while operating in vicinity.

**Chart affected – 210 – 211 – 254 – 255 (INT 7334) – 292 – 21 – 7705 (INT 705)**

(Navarea VIII 081/03: HJ/1130/22)

##### **\*121 (T) (04/03) INDIA – West Coast – Arabian Sea – Oil Rigs**

###### Cancel former INM 89 (T)/2003

1. The present positions of oil rigs as follows
  - (1) Pride Pennvania 18-38.8N., 072-14.9E.
  - (2) Hitdrill 19-21.9N., 071-12.7E.
  - (3) Kedarnath 20-59.1N., 072-33.1E.
  - (4) Trident-II 19-15.0N., 071-28.4E.
  - (5) Ida 19-36.6N., 071-18.9E.
  - (6) CE Thornton 20-27.5N., 071-48.4E.
  - (7) JT Angel 19-26.6N., 071-20.6E.
  - (8) Frontier Duchthess 19-01.1N., 072-12.3E.
  - (9) Frontier Ice 19-10.0N., 071-57.9E.

### III

(10)	PN III	19-30.9N., 071-21.4E.
(11)	Sagar Samrat	19-06.4N., 072-20.1E.
(12)	Sagar Bhushan	19-15.1N., 072-02.1E.
(13)	Sagar Pragati	18-41.5N., 072-20.9E.
(14)	Sagar Shakti	19-23.2N., 071-17.5E.
(15)	Sagar Jyoti	19-31.8N., 071-25.0E.
(16)	Sagar Ratna	19-35.4N., 071-16.8E.
(17)	Sagar Kiran	19-19.8N., 071-23.9E.
(18)	Sagar Laxmi	18-55.9N., 072-18.3E.
(19)	Sagar Uday	19-35.0N., 071-23.7E.
(20)	FGMC Clintok	19-24.6N., 071-21.3E.
(21)	Pride West Virginia	19-23.0N., 071-27.4E.
(22)	Sagar Gaurav	18-43.4N., 072-22.3E.
(23)	Trans Ocean Nordic	23-07.4N., 068-20.3E.
(24)	ENSCO-54	21-07.8N., 072-32.5E.

2. Mariners are advised to give wide berth while operating in these areas.

**Chart affected – 2101 – 2005 – 2019 – 2044 – 209 – 202 – 208 – 211 – 251 (INT 7318) – 253 (INT 7428) – 254 – 255 (INT 7334-) – 271 – 291 – 292 – 21 – 22 – 7705 (INT 705) – 7706 (INT 706)**

(Navarea VIII 078 & 100/03: HJ/1130/87)

**\*122 (P) (04/03) INDIA – East Coast – Nagapattinam Anchorage – Trestle; pipeline**

1. Mariners are advised that a new Trestle has been constructed in position from 10° 49'.42N., 79° 51'.19E. (shore) to 10° 49'.42N., 79° 51'.88E. (seaward). The trestle is 1400 metres long and 4 metres wide extending in easterly direction towards sea with 6 in number Dolphins made of concrete pillars erected on either side of the trestle (3 in No. in northerly and 3 in No. southerly directions).
2. Pipelines are laid from trestle head to CPCL refinery for facilitating transfer of crude oil from trestle head to refinery. The trestle is capable of berthing barges of 4,000 DWT to 40,000DWT tanker.
3. The above changes being included in New Edition of Chart 3007 under print.

**Chart affected – 3007 – 357 (INT 7397)**

(RoS INS Nirupak, I (P)-95 A: HJ/1030/00)

**\*123 (T) (04/03) INDIA – East Coast – Bay of Bengal – Oil Rigs**

**Cancel former INM 90 (T)/2003**

1. The present positions of oil rigs as follows:
  - (a) Aban –II 16° 24'.5N., 82° 00'.7E.
  - (b) Sagar Vijay 16° 01'.0N., 81° 48'.9E.
  - (c) Discoverer - 534 16° 31'.6N., 82° 31'.8E.
2. Mariners are advised to give wide berth while operating in these areas.

**Chart affected – 355 (INT 7405) – 31 – 32 – 7706 (INT 706)**

(Navarea 79/2003: HJ/1029/67)

**\*124 (T) (04/03) INDIA – East Coast – Vishakhapatnam Inner Harbour – Bulk**

1. The channel berth (New dredges Berth) at the entrance to Inner Harbour is open for vessels with permissible LOA 150m, beam 18.75m and draught 8.5m.

**Chart affected – 3012 (INT 7411)**

(VSKP Port Trust: HJ/1029/76)

## IV

### MARINE INFORMATION

#### REPORTING OF INFORMATION BY MARINERS

1. It has been observed that mariners do not timely intimate changes at sea concerning mariners safety for promulgation. Mariners are, therefore, requested to report such changes immediately through Hydrographic Note on form I.H.-102/102a.

2. Mariners are also advised to comply with Special Edition 1999 Notice No. 8, for ship reporting system (INSPIRES) within boundary of Navarea VIII for safety of mariners. The beneficial effects of this system are as follows:

- (a) To provide upto-date information on shipping for search and rescue
- (b) For effective vessel traffic management services.
- (c) For weather forecasting.
- (d) For prevention and containment of marine pollution.

#### MRCC CHENNAI

ISDN Internet connection Email Id. [isareast@md3.vsnl.net.in](mailto:isareast@md3.vsnl.net.in) installed at MRCC Chennai dedicated for emergencies at sea.

# V

## NAVIGATIONAL WARNINGS

Refer to Notice No. 12 (Special Edition, Notice to Mariners – 1999). Navigational Warning pertaining to Navigational Warning Area (NAVAREA VIII) is reproduced in this section. Text of NAVAREA VIII known to be cancelled prior to the date indicated are not given. Serial numbers only of Navigational warnings in force, pertaining to other NAVAREAS are given.

(1) Navarea I (N.E. Atlantic)  
(15 Feb 2003)  
038 Received

(2) Navarea II (E. Atlantic)  
(15 Feb 2003)  
Nil

(3) Navarea III (Mediterranean)  
(15 Feb 2003)  
56 Received

(4) Navarea IV (N.W. Atlantic)  
(15 Feb 2003)  
10 (25)

(5) Navarea V (W. Atlantic)  
(15 Feb 2003)  
Nil

(6) Navarea VI (S.W. Atlantic)  
(15 Feb 2003)  
454/02

(7) Navarea VII (S.E. Atlantic)  
(15 Feb 2003)  
020 Received

(8) Navarea VIII (Indian Ocean)  
(15 Feb 2003)  
105 Received

**2003** 004 045 055 072 078 079 080 081 083 084 085 088 089 090 091 092 093 094 095 096 097 098 099 100  
101 102 103.

065 to 071. Cancelled.

072. India West Coast – Gulf Of Kachchh. Charts 203 271 2055 2068 INT 706. Paga buoy 22-35.4N., 069-14.4E. laid in position.

073 to 077. Cancelled.

078. Cancel Navarea 031 040 044 046 of 2003. India West Coast. Charts 21 22 209 210 211 255 292 INT 706. Present position of oil rigs as on 06 Feb 2003 as follows:

(1)	Pride Pennvania	18-38.8N., 072-14.9E.
(2)	Hitdrill	19-21.9N., 071-12.7E.
(3)	Kedarnath	20-59.1N., 072-33.1E.
(4)	Trident-II	19-15.0N., 071-28.4E.
(5)	Ida	19-36.6N., 071-18.9E.
(6)	CE Thornton	20-48.7N., 072-22.9E.
(7)	JT Angel	19-26.6N., 071-20.6E.
(8)	Frontier Duchthess	19-01.1N., 072-12.3E.
(9)	Frontier Ice	19-10.0N., 071-57.9E.
(10)	PN III	19-30.9N., 071-21.4E.
(11)	Sagar Samrat	19-06.4N., 072-20.1E.

## V

(12)	Sagar Bhushan	19-15.1N., 072-02.1E.
(13)	Sagar Pragati	18-41.5N., 072-20.9E.
(14)	Sagar Shakti	19-23.2N., 071-17.5E.
(15)	Sagar Jyoti	19-31.8N., 071-25.0E.
(16)	Sagar Ratna	19-35.4N., 071-16.8E.
(17)	Sagar Kiran	19-34.4N., 071-21.9E.
(18)	Sagar Laxmi	18-55.9N., 072-18.3E.
(19)	Sagar Uday	19-35.0N., 071-23.7E.
(20)	FGMC Clintok	19-24.6N., 071-21.3E.
(21)	Pride West Virginia	19-23.0N., 071-27.4E.
(22)	Sagar Gaurav	18-43.4N., 072-22.3E.
(23)	Trans Ocean Nordic	23-07.4N., 068-20.3E.
(24)	ENSCO-54	21-07.8N., 072-32.5E.

Wide berth requested.

079. Cancel Navarea 030 of 2003 India East Coast. Charts 31 32 354 355 357 INT 706. Present position of oil rigs as on 06 Feb 2003 as follows:

(a)	Aban-II	16-24.5N., 082-00.7E.
(b)	Sagar Vijay	16-01.1N., 081-48.9E.
(c)	Discoverer-534	16-31.6N., 082-31.8E.

Wide berth requested.

080. India West Coast- Off Pipavav. Charts 21 207 253 292 2056 INT 705. Yellow coloured data buoy with light quick flashing 2.5 seconds and radar reflector deployed in position 20-53.3N., 071-29.7E. Mariners are advised to keep clear by 500 metres.

081. India West Coast-Arabian Sea. Charts 21 210 211 254 255 292 INT 705. Seismic survey by RV C-Explorer from 09 Feb to 14 May 2003 in area bounded by: 20-42.0N., 072-11.0E; 20-42.0N., 072-34.0E; 20-15.0N., 072-19.0E; 20-30.0N., 072-00.0E. Vessel towing three high voltage cables of 4,500 metres long with a light flashing buoy at night attached at the end. All vessels operating in vicinity to keep well clear and exercise caution. Cancel this message on 15 May 2003.

082. Cancelled.

083. India West Coast- Cochin. Charts 22 32 220 259 260 2004 INT 706. Firing exercise by coast battery between 0330 UTC and 1530 UTC on 14 Feb and 18 Feb 2003 in area bounded by: 09-57.6 N., 075-59.5 E; 09-57.7 N., 076-14.2 E; 09-40.0 N., 076-14.5 E; 09-42.5 N., 076-09.5 E. Safe flying height 10,000 metres. Cancel this message on 19 Feb 2003.

084. Cancelled.

085. India West Coast – Mormugao. Charts 22 214 215 257 INT 706. Air to ground firing practice on land and sea by air crafts between 0230 UTC and 1230 UTC from 14 Feb to 21 Feb 2003 in area bounded by: 15-13.0N., 073-57.0E; 15-13.0N., 073-52.0E; 15-11.0N., 073-57.0E; 15-11.0N., 073-52.0E. Safe flying height 3,500 metres. Cancel this message on 22 Feb 2003.

086 & 087. Cancelled.

088. India West Coast - Pigeon Island. Charts 22 216 257 INT 706. Firing exercise by Naval ships and aircrafts between 0230 UTC and 1130 UTC from 15 Feb to 21 Feb 2003 on Pigeon Island. Danger Area – Circle of 06 NM radius around the position 14 –01.0N., 074 –19.6E. Safe flying height 3,500 metres. Cancel this message on 22 Feb 2003.

089. Cancelled.

090. Andaman Sea - India Andaman Islands. Charts 41 404 405 473 4006 4016 INT 706. Firing exercise by Naval ships between 0330 UTC and 0930 UTC on 15 Feb 2003 in area bounded by: 11- 43.0N., 092- 51.3E; 11- 43.0N., 093- 11.3E; 11- 21.0N., 093- 11.3E; 11-21.0N., 092- 51.3E. Safe flying height 9,200 metres. Cancel this message on 16 Feb 2003.

091. India West Coast - Arabian Sea. Charts 22 INT 705. Firing exercise by Naval ships between 0330 UTC and 1530 UTC from 15 Feb to 21 Feb 2003 in area bounded by: 15-31.0N., 069-38.0E; 16-13.0N., 068-30.0E; 16-10.0N., 070-08.0E; 16-45.0N., 069-30.0E. Safe flying height 30,000 metres. Cancel this message on 22 Feb 2003.

## V

092. India West Coast - Lakshdweep Sea. Charts 22 258 272 INT 705 INT 706. Firing exercise by naval ships between 0430 UTC and 1330 UTC from 15 Feb to 21 Feb 2003 in area bounded by: 13-56.0N., 071-11.0E; 12-09.0N., 073-58.0E; 12-09.0N., 072-12.0E; 13-07.0N., 071-53.0E. Safe flying height 30,000 metres. Cancel this message on 22 Feb 2003.
093. India West Coast - Arabian Sea. Charts 22 INT 705. Firing exercise by Naval ships between 0200 UTC and 1400 UTC from 15 Feb to 22 Feb 2003 in area bounded by: 13-35.0N., 070-11.0E; 14-07.0N., 069-25.0E; 14-18.0N., 070-28.0E; 14-38.0N., 069-52.0E. Safe flying height 30,000 metres. Cancel this message on 23 Feb 2003.
094. India West Coast - Arabian Sea. Charts 22 214 215 256 257 272 INT 705 INT 706. Firing exercise by Naval ships from 0130 UTC to 1730 UTC on 16 Feb 2003 in area bounded by: 15-36.0N., 072-10.0E; 16-16.0N., 072-44.0E; 13-52.0N., 073-43.0E., 13-32.0N., 073-09.0E. Safe flying height 30,000 metres. Cancel this message on 17 Feb 03.
095. India West Coast - Arabian Sea. Charts 22 214 215 257 INT 705 INT 706. Firing exercise by Naval ships between 0530 UTC and 1430 UTC from 16 Feb to 20 Feb 2003 in area bounded by: 14-10.0N., 073-00.0E; 15-26.0N., 071-50.0E; 15-42.0N., 071-55.0E; 15-10.0N., 073-00.0E. Safe flying height 30,000 metres. Cancel this message on 21 Feb 2003.
096. India West Coast - Arabian Sea. Charts 21 22 253 292 INT 705. Firing exercise by Naval ships between 0030 UTC and 1230 UTC from 16 Feb to 21 Feb 2003 in area bounded by: 19-32.0N., 068-48.0E; 19-23.0N., 067-55.0E; 18-45.0N., 069-20.0E; 18-52.0N., 070-00.0E. Safe flying height 30,000 metres. Cancel this message on 22 Feb 2003.
097. Andaman Sea - India Nicobar Islands. Charts 33 407 472 4032 INT 706. Keating Point DGPS station 09-15.7N., 092-46.5E. off air.
- 098 & 099. Cancelled.
100. Refer Navarea 078/2003. Following rigs moved to new position:-  
(a) CE-Thornton - 20-27.5N., 071-48.4E.  
(b) Sagar Kiran - 19-19.8N., 071-23.9E.  
Wide berth requested.
101. India West Coast - Arabian sea. Charts 21 22 211 214 256 257 292 7072 INT 705 INT 706. Firing exercise by Naval ships from 0030 UTC to 1730 UTC on 17 Feb 2003 in area bounded by: 18-12.0N., 072-17.0E; 15-27.0N., 073-05.0E; 14-40.0N., 070-19.0E; 16-21.0N., 070-06.0E., 17-17.0N., 070-42.0E; 17-56.0N., 071-25.0E. Safe flying height 3,000 metres. Cancel this message on 18 Feb 03.
102. India West Coast – Trivandrum. Charts 22 32 222 260 261 INT 706. Rocket launching from Thumba Equatorial Rocket Launching Station 08-31.9N., 076-52.1E. between 1300 UTC and 1530 UTC from 19 Feb to 20 Feb and 26 Feb to 27 Feb 2003.  
Danger Zones:  
(a) Sector of 5 NM radius between azimuth 190 degree and 300 degree from launcher.  
(b) Sector of 45 NM and 75 NM radius between azimuth 220 degree and 260 degree from launcher.  
Cancel this message on 28 Feb 2003.
103. India West Coast - Arabian Sea. Charts 21 INT 705. Firing exercise by Naval ships between 0830 UTC and 1730 UTC from 17 Feb to 22 Feb 2003 in area bounded by: 17-27.0N., 066-38.0E; 17-43.0N., 067-58.0E; 17-15.0N., 068-50.0E; 16-38.0N., 067-50.0E. Safe flying height 30,000 metres. Cancel this message on 23 Feb 2003.
- 104 & 105. Cancelled.

(9) Navarea IX (Persian Gulf, Red Sea, NW Arabian Sea)  
(15 Feb 2003)  
003

(10) Navarea X (Australia, New Guinea)  
(15 Feb 2003)  
005

## V

(11) Navarea XI (Malacca Strait, China Sea, N. Pacific)

(15 Feb 2003)

045

(12) Navarea XII (N.E.Pacific)

(15 Feb 2003)

10 (83) Received

(13) Navarea XIII (N.W.Pacific)

(15 Feb 2003)

Nil

(14) Navarea XIV (S.W. Pacific)

(15 Feb 2003)

007

(15) Navarea XV (S.E. Pacific)

(15 Feb 2003)

Nil

(16) Navarea XVI (E. Pacific)

(15 Feb 2003)

Nil

(17) Hydropacks

(15 Feb 2003)

73 (62) Received

(18) Hydrolants

(15 Feb 2003)

104 (24) Received

## VII

### CORRECTIONS TO LIST OF LIGHTS

**Edition No. 04 dated 15 Feb 2003**

<b>F 0386</b>	Chank Tapu. Off N side	22 32.8 69 24.6	Fl W 15s	12	11	White square concrete tower, black bands	<i>fl 1</i>	
								*
<b>F 9526.309</b>	-- E I I R-C	4 18.4 112 43.7	Lit	...	...	Platform		
	*                   *	*                   *	*                   *	*                   *	*                   *			*
<b>F 1045</b>	- Jefford Point	21 44.4 89 32.6	Fl(2)W 20s	36	<b>16</b>	? on grey metal framework tower		
								*
<b>F 1054</b>	<b>Kutubdia Island</b>	21 51.8 91 50.7	Fl(3)W 10s	39	<b>20</b>	Red and white □ on metal framework tower	(fl 0.22, ec 1.44) x2, fl 0.22, ec 6.46. Racon. <b>TE 2003</b>	
								*
<b>F 1327.2</b>	<i>Remove from List</i>							
<b>K 0850.5</b>	-Karsik Bungus	1 02.6 100 23.4	Fl W 3s	17	6	White framework structure	<b>Fa refl</b>	
	*                   *	*                   *	*                   *	*                   *	*                   *			*
<b>K 0872</b>	<i>Remove from List</i>							
<b>K 0932</b>	-Ldg Lts 214° 30'. No 3. Front	2 14.6 104 54.9	Fl W 2s	9	7	? on white metal framework tower 5	<b>fl 0.5.</b> Ra refl. Tide guage	
								*

VIII

**CORRECTION TO LIST OF RADIO SIGNALS**

**Edition No. 04 dated 15 Feb 2003**

**VOL. 1, 1987**

*(Last correction: Edition No. 23 dated 01 Dec 2002)*

Page 34, **SEYCHELLES, Seychelles (S7Q)**, contact numbers table, delete and replace by:

		34° 37'S., 55° 26'E
TELEPHONE	+248 375733	
FAX	+248 376291	
TELEX	+2263 SEYCS SZ	
E-MAIL	shipshore@cws.cwplc.com	

(B.A. Notice 05/03)

(04/03)

**VOL. 2, 1995**

*(Last correction: Edition No. 01 dated 01 Jan 2003)*

**NIL**

**B.A. VOL. 3 Part 1, NP 283(1), 2002/03**

*(Last correction: Edition No. 23 dated 01 Dec 2002)*

**NIL**

**VOL. 5, 1997/98**

*(Last correction: Edition No. 03 dated 01 Feb 2003)*

**NIL**

**B.A. VOL. 7, 1997/98-PART 2**

*(Last correction: Edition No. 16 dated 15 Aug 2000)*

**NIL**

**VOL. 8, 1999**

*(Last correction: Edition No. 02 dated 15 Jan 2003)*

Keating Point DGPS ID 119  
Not functioning

09° 15'.40N., 92° 46'.33E.

**2243**

(DLL Port Blair)

(04/03)

*To accompany Notice to Mariners (110/03)*

*On. B.A. Chart 1353*

AIDS TO NAVIGATION

The aids to navigation within Indonesian waters are reported to be unreliable. They may be missing, unlit or out of position.

*On. B.A. Chart 1358*

AIDS TO NAVIGATION

The aids to navigation within Indonesian waters are reported to be unreliable. They may be missing, unlit or out of position.

*On. B.A. Chart 3574*

AIDS TO NAVIGATION

The aids to navigation within Indonesian waters are reported to be unreliable. They may be missing, unlit or out of position.

*On. B.A. Chart 3584*

AIDS TO NAVIGATION

The aids to navigation within Indonesian waters are reported to be unreliable. They may be missing, unlit or out of position.

*On. B.A. Chart 3919*

AIDS TO NAVIGATION

The aids to navigation within Indonesian waters are reported to be unreliable. They may be missing, unlit or out of position.

*On. B.A. Chart 3920*

AIDS TO NAVIGATION

The aids to navigation within Indonesian waters are reported to be unreliable. They may be missing, unlit or out of position.

*On. B.A. Chart 3921*

AIDS TO NAVIGATION

The aids to navigation within Indonesian waters are reported to be unreliable. They may be missing, unlit or out of position.

*On. B.A. Chart 3933*

AIDS TO NAVIGATION

The aids to navigation within Indonesian waters are reported to be unreliable. They may be missing, unlit or out of position.

*On. B.A. Chart 3940*

AIDS TO NAVIGATION

The aids to navigation within Indonesian waters are reported to be unreliable. They may be missing, unlit or out of position.

*On. B.A. Chart 3945*

AIDS TO NAVIGATION

The aids to navigation within Indonesian waters are reported to be unreliable. They may be missing, unlit or out of position.

*On. B.A. Chart 3946*

AIDS TO NAVIGATION

The aids to navigation within Indonesian waters are reported to be unreliable. They may be missing, unlit or out of position.

*On. B.A. Chart 3947*

AIDS TO NAVIGATION

The aids to navigation within Indonesian waters are reported to be unreliable. They may be missing, unlit or out of position.

*To accompany Notice to Mariners (93/03)*

*To accompany Text (a)*

361	South Hatia Island to Naaf River	1992	<b>1992-332. 1994-364. 1995-58. 1996-71-248. 1997-41-226-465. 1998-36-134-319-454. 1999-228-275-330. 2000-264. 2001-415. 2002-169-456-462-472.</b>
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*To accompany Text (d)*

4030	Manners Strait and Duncan Passage	2001	<b>2002-213</b>
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