



INDIAN NOTICES TO MARINERS



EDITION NO. 20 DATED 16 OCT 2013

(CONTAINS NOTICES 182 TO 187)

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(PUBLISHED ON NHO WEBSITE ON 1ST & 16TH OF EVERY MONTH)

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INSIST ON INDIAN CHARTS AND
PUBLICATIONS
Original, Authentic and Up-to-Date



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II

MARINER'S OBLIGATION AND A CHART MAKER'S PLEA

Observing changes at sea proactively and reporting them promptly to the concerned charting agency, is an obligation that all mariners owe to the entire maritime community towards SOLAS. Mariners are requested to notify the Chief Hydrographer to the Government of India at the above mentioned address/fax number/ E mail address immediately on discovering new or suspected dangers to navigation, changes/defects pertaining to navigational aids, and shortcomings in Indian charts/publications. The Hydrographic Note [Form IH – 102] is a convenient form to notify such changes. Specimen form is attached at Section IX with this notice. Also visit our website for downloading and filling up instructions for Hydrographic Note.

**Chief Hydrographer
to the Government of India**



III

EXPLANATORY NOTES

Corrections to Charts and Publications. Section I comprises List of Charts affected by the notices contained in this edition. Whereas sections II and III contain information for correcting the charts and publications. Mariners should insist on corrected charts from their chart distributors/agents.

- (a) Geographical positions given are in the horizontal datum of the current edition of the chart, unless otherwise stated.
- (b) Bearings are true, reckoned clockwise from 000° to 359°. Bearings to lights are from seaward.
- (c) Symbols referred to, are those shown on the chart 5020 (INT 1).
- (d) Alterations to depth contours, deletion of depths to make way for new detail, etc; are not normally mentioned, unless they have some navigational significance.
- (e) Blocks and notes, if any, accompanying the Notices in Sections II and III are placed after Section IX.

Temporary and Preliminary Notices. These are indicated by (T) and (P) respectively after the Notice number and are placed in Section III. Sl Nos. of those in force are published quarterly on 01 Jan, 01 Apr, 01 Jul and 01 Oct, and their text is published in Annual Edition of Indian Notices to Mariners. They should be inserted in pencil, by the user, on receipt.

Source of Information. A star preceding the number of a Notice indicates that the notice is promulgated by INHO based on original information received.

Sailing Directions. Corrections for the Sailing Directions (Pilots) are given in Section VI.

Lights. Corrections to Indian List of Lights are given in Section VII, where affected Light List number is quoted.

- (a) These corrections should be incorporated as per instructions given on page XI of the List of Lights.
- (b) Such correction notices to list of lights may be published in either an earlier or a later Edition of N to M than the Edition containing the Notice to the chart correction.
- (c) The range of a light given is its nominal range. Its geographical range is given in parenthesis only if it is less than the nominal range.
- (d) A star indicates that the corresponding field is to be amended and all stars indicate that new light is to be inserted.

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

Radio Navigational Warnings.

- (a) These are broadcast as serially numbered NAVAREA warnings by the concerned NAVAREA coordinator through GMDSS and Area Radio Broadcasts.
- (b) They contain important information affecting navigational safety, which cannot await the publication of the next edition of N to M.
- (c) It should be borne in mind that they may be based on reports which cannot always be verified before promulgation.
- (d) It is therefore necessary to be selective, and promulgate only the more important warnings to avoid overloading users; the less important information is included in the forthcoming edition of N to M or the Chart/publication concerned.

IV

Laws and Regulations. While in the interest of the safety of shipping, the Hydrographic Office makes every endeavor 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. Notices to Mariners contain important information concerning safety of navigation at sea, hence, they should be used to keep the specified charts and publications up-to-date.

Reliance on Charts and Associated Publications. While every effort is made by the Hydrographic Office to ensure the accuracy of the information on Charts and Publications before they are published, it should be appreciated that it may not always be complete and up-to-date. The mariner must be the final judge for the reliance he can place on the information available, bearing in mind his particular circumstances, local pilotage guidance and judicious use of available navigational aids.

Use of Global Positioning System (WGS 84) positions.

- (a) The positions of hydrographic objects shown on most of the Indian charts and publications are 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 a difference in the position values obtained by visual fixing (Everest Datum) and GPS position (WGS 84 datum).
- (b) Wherever these differences have been ascertained, their average values are published as a Cautionary Note on the chart concerned, as shifts in Latitude and Longitude. Whilst plotting GPS positions on charts, the shift values as given on the chart must be applied, before making any assessment of the navigational situation vis-à-vis the other charted information.
- (c) These datum shift values are not uniform, particularly in areas off Andaman and Nicobar and Lakshadweep Islands, as these places are not linked to mainland network (Everest datum). Mariners are advised to use alternate source of position information such as Visual or Radar, particularly when closing the shore or navigating in the vicinity of dangers.

Source Data on Charts. All Indian charts contain specific information on their source of hydrographic data. In areas where the source data is very old, incomplete and less reliable, the mariner must use such charts with prudence. Mariner should always use the largest scale charts available for the area. Apart from being the most detailed, the larger scale charts are usually corrected first. Hydrographic information may be sparse on small scale charts. On such charts, a charted shoal may be in error as regards position, least depth and extent. Uncharted dangers may also exist, particularly in areas away from well-established routes. Mariners must exercise due caution.

Further Guidance. The Mariner's Hand Book (NP 100) gives full explanation on the use of charts and the type of information contained on charts. In their own interest, all users of charts should refer to it.

NEWLY PUBLISHED INDIAN CHARTS, ENC's AND PUBLICATION

1. The new Indian Charts that is available for mariners in the market are as follows:-

<i>Chart No.</i>	<i>Date of Publication</i>	<i>Title, Limits & Description</i>	<i>Scale</i>	<i>Folio</i>	<i>Price</i>
2077	31-07-2013	HARNAI ANCHORAGE <u>Limits</u> 17° 45'.60N; 72° 57'.00E. 17° 53'.30N; 73° 07'.79E.	30,000	3	Rs. 1870.00
		APPROACHES TO PAVAS BAY <u>Limits</u> 16° 50'.00N; 73° 10'.00E. 16° 56'.70S; 73° 19'.00E.	25,000		
3024	15-07-2013	KALINGAPATNAM ANCHORAGE <u>Limits</u> 18° 16'.50N; 84° 06'.00E. 18° 23'.40N; 84° 11'.50E.	20,000	5	Rs. 1870.00
		BAVANAPADU ANCHORAGES <u>Limits</u> 18° 30'.00N; 84° 19'.00E. 18° 36'.90N; 84° 24'.50E.	20,000		

2. The Indian Chart permanently withdrawn is as follows:-

<i>Chart No.</i>	<i>Date of Publication</i>	<i>Title</i>	<i>On Publication of New Chart / Edition</i>	<i>Date of Publication</i>
2077	15-12-2010	HARNAI ANCHORAGE	2077	31-07-2013
		PAWAS ANCHORAGE		
3024	31-07-2007	KALINGAPATNAM ANCHORAGE	3024	15-07-2013
		BAVANAPADU ANCHORAGE		

3. The forthcoming Indian Charts are as follows:-

<i>Chart No</i>	<i>Title</i>	<i>Scale</i>	<i>Remarks</i>
210	UMARGAM TO SATPATI	150,000	New Edition
2002 (INT 7351)	PORTS OF NEW MANGALORE AND MANGALORE	20,000	New Edition
2010	KARWAR HARBOUR	12,500	New Edition
2105	JAIGARH PORT	12,500	New Edition

VI

Availability of ENC's.

The complete folios of Official Indian ENC's are distributed worldwide through JEPPESEN MARINE (formerly C-MAP), UKHO and Norwegian Hydrographic Service. UKHO distributes Indian ENC's through the world wide network of their agents and distributors. Updates are also made available as per the existing policy of the distributor. Mariners and other ENC users may contact the under mentioned for further details:

United Kingdom Hydrographic Office Admiralty Way, Taunton, Somerset TA1 2DN, UK Tel: +44 (0) 1823 337900 Fax: +44 (0) 1823 330561, 1823 284077 Telex: 46274 Email: helpdesk@ukho.gov.uk Web site: www.ukho.gov.uk	JEPPESEN MARINE Jeppesen Norway AS Hovalandsveien 52 P.O. 212, N-4379, Egersund, Norway Ph: 0047 51 464700 Fax: 0047 51 464701 Email: enc@jeppesen.com , info@c-map.co.no Website: www.jeppesen.com
M/s Primar Norwegian Hydrographic Service, Postbox 60, 4001 Stavanger Norway Telephone - +47 - 51 85 87 00 Fax - + 47 - 51 85 87 08 E-mail:- data@ecc.no Website: - www.primar.org	



SECTION – I

The list of charts affected by the Notices 182 to 187 contained in this edition are as follows:

CHART NUMBER	FOLIO NO.	NOTICE NO.
23	1	185
208	2	182
268 (INT 7353)	4	184
273	4	185
288	1	186
289	1	186
2006	4	185
2007	4	184
2039	2	182
2074	3	183
2077	3	183
7702 (INT 702)	1	187



SECTION – II

PERMANENT NOTICES

***182/(20/13) INDIA – WEST COAST – Gulf of Khambhat – Northern Portion– Foul.**

Source: VTS Khambhat.

Chart 208 [previous update 161/13]

Insert  # 21° 42'·32N., 72° 27'·61E.

Chart 2039 [previous update 161/13]

Insert  # 21° 42'·31N., 72° 27'·63E.

***183/(20/13) INDIA – WEST COAST – Pawas Bay – Ranapar Port – Buoys. Light.**

Source: Finolex Port, Ranapar Port.

Chart 2077 [previous update NC 31 Jul 13]

Insert	 Fl. G (Sep to May)	16° 53'·05N., 73° 17'·10E.
	 Fl. R (Sep to May)	16° 53'·33N., 73° 17'·03E.
	 Fl. V (Sep to May)	16° 53'·48N., 73° 17'·70E.
Delete	 Fl. G. 5s	16° 53'·05N., 73° 17'·10E.
	 Fl. R. 5s	16° 53'·33N., 73° 17'·03E.
Amend	light to, Fl(2)15s11m4M	16° 53'·58N., 73° 16'·68E.

Chart 2074 [previous update 154/13]

Insert	 Fl. G (Sep to May)	16° 53'·05N., 73° 17'·10E.
	 Fl. R (Sep to May)	16° 53'·33N., 73° 17'·03E.
	 Fl. V (Sep to May)	16° 53'·48N., 73° 17'·70E.
Delete	 Fl. G. 5s	16° 53'·05N., 73° 17'·10E.
	 Fl. R. 5s	16° 53'·33N., 73° 17'·03E.

***184/(20/13) INDIA – LAKSHADWEEP – Androth Island – Light. Buoy.**

Source: NHO Dehradun.

Chart 268 (INT 7353) [previous update 136/13]

Amend light to Fl(2)10s42m16M Racon (D) 10° 48'·90N., 73° 42'·10E.

Chart 2007 [previous update 529/07]

Delete  10° 49'·19N., 73° 40'·74E.

Amend light to, Fl(2)10s42m16M Racon (D) 10° 48'·93N., 73° 42'·10E.

Chart 2007 (Plan) [previous update 529/07]

Insert  10° 49'·215N., 73° 40'·740E.

Delete  10° 49'·190N., 73° 40'·742E.

Move  from: 10° 49'·250N., 73° 40'·725E.

to: 10° 49'·254N., 73° 40'·723E.

***185/(20/13) INDIA – LAKSHADWEEP – Minicoy island– Racon.**

Source: IH -102 (INS Sutlej).

Chart 23 [previous update 088/13]

Insert radar beacon, Racon (G), at light 08° 16'·00N., 73° 02'·00E.

Chart 273 [previous update 137/13]

Insert radar beacon, Racon (G), at light 08° 16'·00N., 73° 01'·50E.

Chart 2006 [previous update 137/13]

Amend Characteristics of Racon to (G), at light 08° 16'·16N., 73° 01'·57E.

186/(20/13) UNITED ARAB EMIRATES – Qatar to Shatt- Al - Arab – AIS.

Source: BA Notice 4326/13.

Chart 288 [previous update 172/13]Insert  AIS, at light- buoy 28° 15'·00N., 49° 18'·60E.

Legend, AIS, at light- buoy

26° 53'·00N., 50° 58'·40E.

28° 56'·20N., 48° 53'·10E.

28° 32'·00N., 49° 30'·20E.

27° 12'·70N., 50° 38'·90E.

27° 06'·10N., 50° 57'·50E.

Chart 289 [previous update 173/13]Insert  AIS, at light- buoy 26° 53'·00N., 50° 58'·40E.

Legend, AIS, at light- buoy

27° 12'·70N., 50° 38'·90E.

27° 06'·10N., 50° 57'·50E.

187/(20/13) INDIAN OCEAN – Chagos Archipelago to Madagascar – Depth.

Source: BA Notice 4328/13.

Chart 7702 (INT 702) [previous update 080/13]

Insert depth 35 enclosed by 200m contour 18° 28'·00S., 58° 24'·00E.

SECTION – III
TEMPORARY AND PRELIMINARY NOTICES

NIL



SECTION – IV **MARINE INFORMATION**

1. NAVTEX TRANSMISSION

MSI Promulgation by NAVTEX Stations at Mumbai and Chennai are temporarily out of operation.

(Source – DG Shipping)

2. MISIDENTIFYING FISHING BOATS AS PIRATE SKIFFS

All merchant vessels entering Indian EEZ are advised that dense fishing activity may be encountered off West Coast of India. Fishing is generally carried out by mechanized boats and single hull boats with outboard motors carrying 4-5 crew using long lines upto 50 NM from coast. The vessels traversing the nets are likely to be approached by fishing boats for safeguarding nets and lines and should not be mistaken as skiffs and PAG's. Masters of vessels to report any suspicious activity of fishing vessels immediately to MRCC (Mumbai) on telephone +91-22-24388065, 24316558, Email: - indsar@vsnl.net, or icgmrc_mumbai@mtnl.net. Any suspicious activity of skiffs / boats to be photographed if possible. Merchant vessels with armed guards on board are to report presence of guards to Indian Navy/Coast Guard while transiting Indian EEZ.

(Source - NAVAREA VIII Warning 100/12)

3. DISPLAY ANOMALIES IN ECDIS

(a) Mariners are advised that the International Hydrographic Organization (IHO) check data set shows that some ECDIS systems fail to display some significant underwater features in the standard display mode. The use of this check data set, issued through ENC service providers and available from the IHO website www.iho.int, to check the operation of ECDIS is strongly recommended. JRC has confirmed that certain versions of JRC ECDIS fail to display some types of wreck and obstructions, including stranded wrecks, in any display mode.

Where JRC ECDIS is in use, paper charts should be the primary means of navigation until the ECDIS has been proved to operate correctly. See www.jrc.co.jp/eng/product/marine/whatsnew/20120313/index.html for further information.

(b) Some Electronic Chart Display and Information Systems (ECDIS) may exhibit operating anomalies. The International Maritime Organization's (IMO) circular SN.1/CIRC.312 pages /imodocs.aspx (registration required) lists identified anomalies, Their characteristics and remedial advice. Mariners are reminded that they should access the International Hydrographic Organization (IHO) data presentation and performance check (DPPC) dataset (news links of <http://www.iho.int/srv1>) and ensure that all installed ECDIS units are checked.

(Source - NAVAREA VIII Warning 141/12 & 529/12)

4. SAFETY FAIRWAYS, RECOMMENDED ROUTES, TRAFFIC SEPARATION SCHEME

The Director General Shipping has established Safety fairways, recommended routes and traffic separation scheme (TSS) in restricted Indian waters including the offshore development area to enhance safety of navigation. The details of coordinates for the above have been published in the fortnightly Indian Notices to Mariners Edition No 14 of 2008 (16th July 2008).

(a) **Safety Fairways:** An area within which permits are not granted for the erection of oil or gas related structures. The use of a safety fairway is not usually mandatory, but is recommended. Safety fairways have been promulgated in and round offshore development area in Arabian Sea up to the Exclusive Economic

4.2

Zone (EEZ) due to increased weather related marine accidents and dense traffic. These are mandatory for all Indian ships and vessels transiting through the ODA and recommendatory for all foreign flag ships and vessels irrespective of size.

(b) Recommended routes have been established along the coast of Gujarat. These are to assist mariners to navigate safely in order to represent the best routes for crossing traffic and to minimize head-on encounters in vicinity of Oilfield Development Areas and regulate coastal traffic. Mariners are advised to keep 1 to 2 miles starboard of the shown routes consistent with Rules of the Road.

(c) Traffic Separation Schemes (TSS). The TSS off Mumbai harbour is mandatory for all Indian and foreign flag ships and vessels entering and leaving Mumbai harbour and Jawaharlal Nehru Port Trust (JNPT)/ Nhava-Sheva harbour irrespective of size.



Distribution of Indian Paper Charts and Nautical Publications

Indian Nautical Charts and Publications from National Hydrographic Office, India are now available globally. Details of overseas chart agents are as follows:-

JEPPESEN MARINE Jeppesen Norway AS P.O. 212, N-4379, Egersund, Norway Ph: 0047 51 464700 Fax: 0047 51 464701 Email: info@c-map.no Site: www.c-map.no	C-Map US Commercial 133 Falmouth Road, Building 2, Postal Code: 02649, Mashpee, MA, America Ph: +1 (508) 477 8010 Fax: +1 (508) 539 4381 Email: info@c-map.com	C-Map (UK) Ltd. Systems House Delta Business Park Salterns Lane, Fareham, PO16 0QS, United Kingdom, Ph: +44 (0) 1329 517777 Fax: +44 (0) 1329 517778 Email: info@c-map.co.uk
Mari-Sys Pte Ltd. 20 Ayer Rajah Crescent, 08-21, SE 139964, Republic of Singapore Ph: +65 6776 1898 Email: info@mari-sys.com	Bogerd Martin NV, Oude Leeuwenrui 37 2000 Antwerp, Belgium Ph: +32 (3) 2134170 Fax: +32 (3) 2326167 Email: sales@martin.be Site: www.martin.be	Bogerd Martin Tianjin(China Branch) 2-B101 FTZ Hi-Tech Development Centre 131 Haibin 9 Road 300461 Tianjin China Ph: +86 22 257 62 721 Fax: +86 22 257 62 722 Email: charts-tj@martincn.com
C-Map Holland Paleiskade100 PO Box 7 1781 AR Den Helder, Holland Ph: +31 223 616 700 E Mail: CorMallie cor@chartworx.nl		

List of Indian Chart Agents.

M/s OSA Books and Periodicals, R-246, Greater Kailash -I New Delhi - 110 048 Tel/Fax: 011-46557337, Mob: 9971093992 Email: rpani246@gmail.com	M/s Sterling Book House, 181, Dr. DN Road Fort, Mumbai – 400 001 Tel: 91-22-22612521, Fax: 91-22-22623551 Email : sbh@vsnl.com
M/s Global Charts & Nav. Aids Pvt. Limited 1A, Goa Mansion, Ground Floor 58, Dr. Sunderlal Bahl Path (Goa Street) Fort, Mumbai - 400 001 Tel: 91-22-22626318, 22626380, Fax: 91-22-22621488 Email: sales@bogerdmartin.com , sarmarin@vsnl.com	M/s EW Stevens & Co. (Pvt.) Ltd. Mackinnon Mackenzie Bldg, Ground Floor, 4 Shoorji Vallabhdas Marg, Mumbai-400 038 Tel: 91-22-22618567, Fax: 022-22619146 Email: ewsbom@bom3.vsnl.net.in
M/s C & C Marine Combine 25 Bank Street, 1 st Floor, Mumbai - 400 023 Tel: 91-22- 22660525, 22661937, 22672143 Fax: 91-22-22670896 Email: ccmarine@bom5.vsnl.net.in	M/s Maritime Charts & Publications 2/524 Sundeep Road, Chinna Neelangarai, Chennai 600041 Land Mark - Nearby Suganya Kalyana Mandapam Tele/Fax : +91-44-24490668 Mob No : +91-9003245348 Email: ewl-india@ewliner.com
M/s SVR Chart Agencies Door No.50-81-35/6, Santhipuram, Seetammampeta, Visakhapatnam-530 016 Tele Fax: 0891-2799471, Cell: 9440132553, 9849120988, 9885308200 Email : mahalakshmitravel@hotmial.com	M/s Jeppesen India Pvt. Ltd 505, Raheja Arcade, Sector 11 CBD, Belapur Navi Mumbai – 400 614 Tel: +91 22 5610 3668, Fax: +91 22 55939504 Mob: +9322238542 Email: raj_chakravorty@yahoo.com info@c-map.co.in Website: www.c-map.co.in
M/s JM Maritime Services 24/24C Kavarana Building Ground Floor, Wadi Bunder P.D. Mellow Road, Mumbai – 400 009 Tel: +91 22 23736956, Fax: 022 - 23725083 Cell: +91 9820788357 Email : jmms@mtnl.net.in charts@mtnl.net.in	M/S Inspire Shipping, 46a, Ashok Chamber, Broach Street, Masjid Bunder (E), Mumbai – 400 009 Fax : 022 – 27713146 Email : info@inspireship.com pramod@inspireship.com
M/S Lift-O-Marine Allens Mansion, Flat – C6 Nungi Station Road, Bata Nagar PO. Parbangla Kolkata - 700140 Tel: +91-33-24924283, Cell: +91-8902228463 Email: sankar_roy342@yahoo.in	M/s Global Marine Infratech Pvt. Ltd. Siksha Sandan, Ground Floor, ND-7, VIP Area, IRC Village Bhubaneswar – 751015 Tel: +91-674-2550599, Fax: +91-674-2551899 Email: ashiskantha@gmiindia.in Web: www.gmiindia.in
Engineering Logistics Executive Multi Services Door No: 61-4-45-A/4 Prakash Nagar Malkapuram Visakhapatnam - 530 014 Mob: +91 9133362541/9966244818 Email: elemulti.services69@yahoo.com	

SECTION – V

NAVAREA – VIII WARNINGS IN FORCE

1. For details of NAVAREA limits and organisation/coordination, please refer to Notice No. 13 of the Special edition of Indian Notice to Mariners – 2012.

2. NAVAREA VIII Warnings in force as on 30 Sep 13:

2013 SERIES – 008 012 035 160 197 203 228 265 303 320 335 343 370 374 428 430 451 473
493 498 506 507 510 519 532 535 536 540 546 547 549 551 552 554 556 557 559 560 561
562 563

3. NAVAREA VIII Warnings issued during the period from 01 Oct to 15 Oct 13 (both dates inclusive) are as tabulated below: –

536. India East Coast – off Kakinada. Chart 31 32 354 3009 INT 706. RIG Hercules triumph anchored at 17-01.6N 082-20.4E
2. Caution advised.
537. Cancel NAVAREA VIII 521/13. India West Coast – Gulf of Kachchh. Charts 21 203 2068 INT 705. Following reported on deep water channel buoy:
(a) Paga buoy (22-35.42N 069-14.45E) temporarily removed.
(b) Ranwara buoy reported unlit and drifted. Superstructure missing. Sighted in vicinity 22-39.52N 069-43.70E.
(c) Mithapur buoy (22-24.71N 068-51.84E) reported sunk.
(d) Dhani buoy (22-36.76N 069-27.51E) unlit.
(e) Chandri buoy reported missing.
2. Caution advised.
538. NAVAREA VIII – Messages in force as on 011003 UTC Oct 13: 2013 Series – 008 012 035 160 197 203 228 265 303 320 335 343 370 374 428 451 453 473 484 493 498 506 507 510 519 527 528 532 535 536 537
(a) NAVAREA VIII Warnings less than 42 days old (473/13 onward) are promulgated via SafetyNET.
(b) Text of NAVAREA VIII warnings in force including those which are no longer being broadcast are available on website www.hydrobharat.nic.in
(c) Texts of NAVAREA VIII warnings are also printed in section V of fortnightly editions of Indian Notices to Mariners.
2. Cancel this MSG 111001 UTC Oct 13.
539. India West Coast – Gulf of Khambhat. Charts 21 209 210 254 292 INT 705. Firing practice by Coast Guard aircraft from 050130 UTC to 060830 UTC Oct 13. Danger area bounded by:
(a) 20-18.50N 072-02.50E (b) 20-18.50N 072-15.00E
(c) 20-09.50N 072-12.00E (d) 20-09.50N 072-00.00E
2. Safe flying height 1600 metres.
3. Cancel this MSG 060930 UTC Oct 13.
540. India East Coast – Kadapakkam. Charts 32 33 357 INT 71 INT 706. Kadapakkam light beacon FL(3) 20 seconds established at 12-11.6N 079-58.4E on trial basis on top of 30 metres height circular RCC Tower (colour-red and white spiral).
541. India West Coast – off Mumbai. Charts 21 292 INT 705. STS Lighterage operations shifted from LPO Vadinar to LPO Mumbai within 02 miles radius of 18-56.00N 072-24.00E.
2. Cancel this MSG.
542. Bay of Bengal – off Kakinada. Charts 31 32 355 INT 71 INT 706. Firing practice by Naval ships from 0330 UTC to 0730 UTC on 15 Oct and 19 Oct 13 in area bounded by:
(a) 16-30.0N 083-30.0E (b) 16-00.0N 084-15.0E
(c) 15-20.0N 084-05.5E (d) 15-45.0N 083-30.0E
2. Safe flying height 10000 metres.
3. Cancel this MSG 190830 UTC Oct 13.
543. Cancel NAVAREA VIII 537/13. India West Coast – Gulf of Kachchh. Charts 21 203 2068 INT 705. Following reported on deep water channel buoy:
(a) Paga buoy (22-35.42N 069-14.45E) temporarily removed.
(b) Ranwara buoy reported unlit and drifted. Superstructure missing. Sighted in vicinity 22-39.52N 069-43.70E.
(c) Mithapur buoy (22-24.71N 068-51.84E) reported sunk.

543.	Continued.		
	(d)	Dhani buoy (22-36.76N 069-27.51E) unlit.	
	(e)	Chandri buoy reported missing.	
	(f)	Tilburn buoy temporarily removed.	
2.	Caution advised.		
544.	India East Coast – Vishakhapatnam. Charts 31 32 308 354 391 3002 3012 INT 706. Seaward firing practice by Naval Coast Battery between 0830 UTC to 1130 UTC on 10 Oct and 11 Oct 13.		
2.	Danger zone sector of 15 NM radius between 070 degree and 130 degree from position 17-42N 083-18E.		
3.	Safe flying height 13000 metres.		
4.	Cancel this MSG 111230 UTC Oct 13.		
545.	India West Coast – Arabian Sea. Charts 21 22 208 209 254 292 293 2044 INT 71 INT 705 INT 706. Rig list. Correct at 091001 UTC Oct 13:		
	ABAN III	19-00.60N	072-11.96E
	ABAN IV	19-06.83N	070-56.43E
	BADRINATH	17-55.79N	071-24.81E
	CE THROTON	19-34.69N	071-20.09E
	DEEP SEA FORTUNE	19-31.79N	071-22.50E
	DEEP SEA FOSSIL	19-20.95N	071-18.20E
	DISCOVERY-1	18-38.20N	071-00.93E
	DYNAMIC VISION	18-39.23N	070-58.87E
	ENERGY DRILLER	18-11.38N	071-48.12E
	ENSCO 54	19-16.46N	071-59.83E
	FG MC CLINTOK	19-15.34N	071-21.80E
	GREAT DRILLER CHAAYA	19-14.46N	071-58.88E
	GREATDRILL CHETNA	19-18.31N	071-58.56E
	GREATDRILL CHITRA	18-58.76N	071-37.73E
	JT ANGEL	18-47.09N	072-19.51E
	KEDARNATH	19-41.96N	070-57.23E
	NOBLE CHARLIE YESTER	18-42.58N	072-20.49E
	NOBLE ED HOLT	19-12.54N	072-02.23E
	NOBLE KENNETH DELANEY	18-33.76N	072-17.63E
	RON TAPPMAYER	18-30.15N	072-15.92E
	SAGAR GAURAV	20-19.56N	071-18.67E
	SAGAR JYOTI	20-26.62N	071-19.74E
	SAGAR KIRAN	18-45.24N	072-18.00E
	SAGAR LAXMI	20-58.00N	071-33.00E
	SAGAR PRAGATI	18-32.27N	072-15.44E
	SAGAR UDAY	20-21.88N	071-05.87E
	TRIDENT II	19-10.40N	070-57.68E
	TRIDENT XII	18-36.18N	071-01.64E
	VIRTUE 1	18-47.00N	071-59.01E
	wide berth requested.		
2.	Cancel NAVAREA VIII 453/13.		
546.	Cancel NAVAREA VIII 542/13. Bay of Bengal – off Kakinada. Charts 31 32 355 INT 71 INT 706. Firing practice by Naval ships from 0330 UTC to 0730 UTC on 15 Oct and 19 Oct 13 in area bounded by:		
	(a)	16-30.0N 083-30.0E	(b) 16-00.0N 084-15.0E
	(c)	15-20.0N 084-05.5E	(d) 15-45.0N 083-30.0E
2.	Safe flying height 8000 metres.		
3.	Cancel this MSG 190830 UTC Oct 13.		
547.	India West Coast – Mandvi. Charts 31 203 2068 INT 71 INT 705. Mandvi break water lighthouse temporarily removed.		
2.	Caution advised.		
548.	Cancel NAVAREA VIII 543/13. India West Coast – Gulf of Kachchh. Charts 21 203 2068 INT 705. Following reported on deep water channel buoy:		
	(a)	Paga buoy (22-35.42N 069-14.45E) temporarily removed.	
	(b)	Ranwara buoy reported unlit and drifted. Superstructure missing. Sighted in vicinity 22-39.52N 069-43.70E.	
	(c)	Mithapur buoy (22-24.71N 068-51.84E) reported sunk.	
	(d)	Dhani buoy (22-36.76N 069-27.51E) unlit.	
	(e)	Chandri buoy reported missing.	
2.	Caution advised.		

549. India West Coast – Gulf of Kachchh. Charts 21 203 2068 INT 705. Tilburn buoy re-established at 22-37.2N 069-32.0E.
550. Indian Ocean – Eastern Part. Charts INT 71 INT 702. 14.33 metres long white coloured yacht Nureyev departed Coco Islands, Australia to Rodrigues Island reported missing since 23 Sep 13 with three crew onboard. 2. Vessel transiting through the area to keep sharp look out and render assistance.
551. Cancel NAVAREA VIII 484/13. India West Coast – Gulf of Khambhat. Charts 21 207 254 292 INT 705 INT 706. Following reported on narmada channel marking buoy: (a) Narmada channel marking buoy no 4 and Sultanpur buoy unlit. (b) Buoy no 2 unlit and off station at 20-36.62N 071-58.51E. (c) Buoy no 6 unlit and off station at 20-52.61N 072-06.4E. (d) Buoy no 9 unlit and off station at 21-03.61N 072-10.14E. (e) Buoy no 7 lit and off station at 20-57.79N 072-07.89E. (f) Buoy no 3 unlit. 2. Caution advised.
552. NAVAREA VIII – Messages in force as on 11005 UTC Oct 13: 2013 Series – 008 012 035 160 197 203 228 265 303 320 335 343 370 374 428 430 451 473 493 498 506 507 510 519 532 535 536 540 544 545 546 547 548 549 550 551 (a) NAVAREA VIII warnings less than 42 days old (473/13 onward) are promulgated via SafetyNET. (b) Text of NAVAREA VIII warnings inforce including those which are no longer being broadcast are available on website www.hydrobharat.nic.in (c) Texts of NAVAREA VIII warnings are also printed in section V of fortnightly editions of Indian Notices to Mariners. 2. Cancel this MSG 181001 UTC Oct 13.
553. Western Indian Ocean – off Somalia. Piracy. Charts INT 71 INT 72 INT 701. M/V attacked in vicinity 04-39N 052-19E at 110930 UTC Oct 13. 2. Caution advised. 3. Cancel this MSG 141130 UTC Oct 13.
554. Indian Ocean – Northern Part. Charts 31 301 351 INT 71 INT 706. MV Bingo suspected sunk in vicinity 21-14.6N 088-13.4E at 121015 UTC Oct 13. All eighteen crew rescued. 2. Caution advised. 3. Cancel this MSG 171001 UTC Oct 13.
555. Cancel NAVAREA VIII 550/13 and This MSG.
556. India East Coast – Bay of Bengal. Charts 31 351 352 INT 71 INT 706. Dynamic trial of artillery rocket scheduled from PXE between 0430 UTC to 1100 UTC daily from 23 Oct to 24 Oct 13. Danger zone bounded by (a) 21-25.48N 087-00.16E (b) 21-04.05N 087-33.45E (c) 20-54.20N 087-23.51E (d) 20-48.70N 087-10.45E 2. Caution advised. 3. Cancel this MSG 241200 UTC Oct 13.
557. Cancel NAVAREA VIII 548/13. India West Coast – Gulf of Kachchh. Charts 21 203 2068 INT 705. Following reported on deep water channel buoy: (a) Paga buoy (22-35.42N 069-14.45E) temporarily removed. (b) Ranwara buoy reported unlit and drifted. Superstructure missing. Sighted in vicinity 22-39.52N 069-43.70E. (c) Mithapur buoy (22-24.71N 068-51.84E) reported sunk. (d) Dhani buoy (22-36.76N 069-27.51E) unlit. (e) Chandri buoy reported missing. (f) Narara buoy temporarily removed. 2. Caution advised.
558. Indian Ocean – Bay of Bengal. Charts 31 32 354 355 391 INT 71 INT 706. Firing practice by Naval ships from 0330 UTC to 0930 UTC from 17 Oct to 18 Oct 13 in area bounded by: (a) 16-00N 082-54E (b) 18-20N 085-20E (c) 16-00N 087-50E (d) 13-40N 085-24E 2. Safe flying height 8000 metres. 3. Cancel this MSG 181030 UTC Oct 13.
559. Western Indian Ocean – off Somalia. Piracy. Charts INT 71 INT 72 INT 701. F/V attacked in vicinity 04-09N 056-49E at 140700 UTC Oct 13. 2. Caution advised. 3. Cancel this MSG 171006 UTC Oct 13.

560. India West Coast – Arabian Sea. Charts 21 22 208 209 254 292 293 2044 INT 71 INT 705 INT 706. Rig list. Correct at 151001 UTC Oct 13:

ABAN III	19-00.60N	072-11.96E
ABAN IV	19-06.83N	070-56.43E
BADRINATH	17-55.79N	071-24.81E
CE THORNTON	19-34.69N	071-20.09E
DEEP SEA FORTUNE	19-31.79N	071-22.50E
DEEP SEA FOSSIL	19-20.95N	071-18.20E
DISCOVERY-1	18-38.20N	071-00.93E
DYNAMIC VISION	18-39.23N	070-58.87E
ENERGY DRILLER	18-11.38N	071-48.12E
ENSCO 54	19-16.46N	071-59.83E
FG MC CLINTOK	19-15.34N	071-21.80E
GREAT DRILLER CHAAYA	19-14.46N	071-58.88E
GREATDRILL CHETNA	20-32.80N	071-58.43E
GREATDRILL CHITRA	18-58.76N	071-37.73E
JT ANGEL	18-47.09N	072-19.51E
KEDARNATH	19-41.96N	070-57.23E
NOBLE CHARLIE YESTER	18-42.58N	072-20.49E
NOBLE ED HOLT	19-12.54N	072-02.23E
NOBLE KENNETH DELANEY	18-33.76N	072-17.63E
RON TAPPMAYER	18-30.15N	072-15.92E
SAGAR GAURAV	20-19.56N	071-18.67E
SAGAR JYOTI	20-26.62N	071-19.74E
SAGAR KIRAN	18-45.24N	072-18.00E
SAGAR LAXMI	20-58.00N	071-33.00E
SAGAR PRAGATI	18-32.27N	072-15.44E
SAGAR UDAY	20-21.88N	071-05.87E
TRIDENT II	19-10.40N	070-57.68E
TRIDENT XII	18-36.18N	071-01.64E
VIRTUE 1	18-47.00N	071-59.01E

wide berth requested.

2. Cancel NAVAREA VIII 545/13.

561. India West Coast – Arabian Sea. Charts 22 293 INT 771 INT 705. Firing by Naval ships between 0830 UTC to 1829 UTC on 21 Oct 13 in area bounded by:

Primary Area

(a)	16-52N	069-38E	(b)	16-13N	068-31E
(c)	15-32N	069-40E	(d)	16-27N	070-22E

Alternate Area

(a)	15-20N	071-20E	(b)	15-20N	072-45E
(c)	14-00N	072-45E	(d)	14-00N	071-20E

2. Safe flying height 22000 metres.

3. Cancel this MSG 211929 UTC Oct 13.

562. India West Coast – Port of Mumbai. Charts 21 22 211 255 292 293 2015 2016 2076 INT 705 INT 706. Firing from 0400 UTC to 0730 UTC on 23 Oct 13 in following areas:

Middle Ground

(a)	18-54.65N	072-50.58E	(b)	18-50.00N	072-54.50E
(c)	18-54.50N	072-54.00E	(d)	18-55.16N	072-54.83E

Oyster Rock

(a)	18-54.65N	072-50.58E	(b)	18-50.00N	072-54.50E
(c)	18-48.00N	072-52.00E	(d)	18-54.08N	072-49.80E

Colaba Point

(a)	18-48.00N	072-38.00E	(b)	18-53.58N	072-48.75E
(c)	19-00.00N	072-44.08E	(d)	19-00.00N	072-38.00E

2. Safe flying height 2000 metres.

3. Cancel this MSG 230830 UTC Oct 13.

563. Cancel NAVAREA VIII 558/13. Indian Ocean – Bay of Bengal. Charts 31 32 354 355 391 INT 71 INT 706. Firing practice by Naval ships from 0330 UTC to 0930 UTC From 18 Oct to 19 Oct 13 in area bounded by:

(a)	16-00N	082-54E	(b)	18-20N	085-20E
(c)	16-00N	087-50E	(d)	13-40N	085-24E

2. Safe flying height 8000 metres.

3. Cancel this MSG 191030 UTC Oct 13.

SECTION – VI

CORRECTIONS TO SAILING DIRECTIONS (PILOTS)

(Note: For hard copy in colour, kindly download from www.hydrobharat.nic.in Indian Notices to Mariners section)

NIL

SECTION – VII

CORRECTIONS TO LIST OF LIGHTS

Please insert lights D7295 to D7300.95 inclusive on page 47.

Insert lights D8800 to D8865 inclusive on page 129.

These lights were previously entered in NP 21(a) Volume D&E in E section of Indian list of lights and Fog signals 2010 edition.

No	Name & Location	Position (Lat-Long)	Characteristics	Ht. mts	Range miles	Structure & Height (mts)	Remarks
D7295	ASEB BAY. FATUMA DESET ISLAND -Ras Fatuma	13 02.52N 42 52.44E	Fl(3)W 26s	29	10	Black round masonry tower, white bands 27	
*	--Emergency light	. .	F W	. .	7		*
		*	*	*	*	*	*
D7295.005	ASEB BAY. ASEB (ASSAB) - Detached Breakwater. S end	12 59.70N 42 45.04E	Q G	5	5	White round, tower, green bands	
*		*	*	*	*	*	*
D7295.01	-- N end	13 00.04N 42 45.22E	Fl R 3s	5	5	White round tower, red bands	
*		*	*	*	*	*	*
D7295.012	- N Jetty. Head	13 00.13N 42 45.11E	F G	5	5	White round tower, green bands	
*		*	*	*	*	*	*
D7295.013	- Ras Gombo	13 01.29N 42 44.89E	Fl(2)W 10s	23	11	White tower, black bands 13	
*	--Emergency light	. .	F W	. .	7		*
		*	*	*	*	*	*
D7295.014	SOUTH MASSAWA CHANNEL - Sha'b Shakhs	14 38.98N 41 06.77E	Fl(2) W 22s	38	9	White metal tower on white tripod with black band 37	TE 1997
*		*	*	*	*	*	*
D7295.015	SOUTH MASSAWA CHANNEL. UMM ES SAHRIG ISLAND - Umm es Sahrig Island	15 04.66N 40 30.23E	Fl W 8s	27	9	White metal frame work tower, black bands 17	fl 0.5. TE 1997
*		*	*	*	*	*	*
D7295.016	SOUTH MASSAWA CHANNEL. SHUMMA ISLAND -Shumma Island. S end	15 31.59N 40 00.30E	Fl(3) W 20s	33	9	White round metal tower 22	(fl 0.7, ec1.5) x 2, fl 0.7, ec 14.9
*		*	*	*	*	*	*
D7295.017	SOUTH MASSAWA CHANNEL. ASSARCA ISLAND - Assarca Island	15 32.19N 37 55.06E	Fl W 2s	10	9	White metal frame work tower, black bands 8	fl 0.5
*		*	*	*	*	*	*
D7295.018	SOUTH MASSAWA CHANNEL -Madote Island	15 34.79N 39 45.74E	Fl W 5s	15	9	White metal frame work tower, black bands 13	fl 1
*		*	*	*	*	*	*
D7295.019	MASSAWA (MITS'I'WA) - Ldg Lts 243.5°. Rear. 128m from Front	15 36.58N 39 28.07E	F R	17	8	White metal framework tower, black bands, on white square concrete base 15	Vis 4° each side of leading line
*		*	*	*	*	*	*
D7295.02	-- Front	15 36.61N 39 28.13E	F R	12	6	White metal framework tower, black bands, on white square concrete base 10	Vis 15° each side of leading line
*		*	*	*	*	*	*

7.2

No	Name & Location	Position (Lat-Long)	Characteristics	Ht. mts	Range miles	Structure & Height (mts)	Remarks
D7295.021	- Ras Abd-el Kader. N arm	15 37.03N 39 28.86E	Fl G 3s	7	7	White concrete tower, green bands 5	f.1. TE 1994
*	*	*	*	*	*	*	*
D7295.022	- Ras Mudur. S arm. Head	16 36.87N 39 28.80E	Fl R 3s	7	7	White concrete tower, red bands 2	fl 1. Traffic signals 370m SW
*	*	*	*	*	*	*	*
D7295.023	--	15 36.66N 39 28.86E	Iso W 4s	26	14	Black round metal tower, white bands 22	W 150°-310°(160°)
*	*	*	*	*	*	*	*
D7295.024	NORTH MASSAWA CHANNEL. SHEIKH EL ABU ISLAND - Sheikh el Abu Island	16 01.95N 39 26.26E	Fl W 10s	19	9	White framework tower, black band 17	fl 1. W 277°-187° (270°). Reported TE 2001
*	*	*	*	*	*	*	*
D7295.025	NORTH MASSAWA CHANNEL. DIFNEIN ISLAND - Difnein Island. NE point	16 37.23N 39 19.44E	Fl(2)W 10s	44	10	White metal tower and tripod, black bands 38	fl 0.5, ec 1.5, fl 0.5, ec 7.5. Reported TE 2001
*	--- Emergency light	..	F W	..	7	*	*
*	*	*	*	*	*	*	*
D7295.03	SAWAKIN GROUP. MASAMIRIT ISLAND - Masamirit	18 49.82N 38 45.51E	Fl W 10s	26	10	Red metal framework tower	fl 1
*	*	*	*	*	*	*	*
D7295.031	SAWAKIN GROUP - Hindi Gider	19 23.01N 37 54.70E	Fl(2) W 20s	27	10	Red metal framework tower	fl 0.8, ec 1, fl 0.8, ec 17.4, Reported TE 1990
*	*	*	*	*	*	*	*
D7295.032	- Sha'ab Jibna	19 26.54N 37 43.77E	Fl(3)W 10s	11			
*	*	*	*	*	*	*	*
D7295.04	SAWAKIN - Entrance channel. Atturkia	19 08.50N 37 21.94E	Fl(2) W 5s	8	5	Black and white metal framework tower on base	
*	*	*	*	*	*	*	*
D7295.041	--	19 08.18N 37 21.84E	Q G	8	6	Beacon	
*	*	*	*	*	*	*	*
D7295.042	-- No 5	19 08.20N 37 22.04E	Q R	8	6	Beacon	
*	*	*	*	*	*	*	*
D7295.043	--	19 07.98N 37 21.77E	Fl R 5s	8	6	Beacon	
*	*	*	*	*	*	*	*
D7295.044	--	19 07.73N 37 21.34E	Fl(2)G 10s	8	6	Beacon	
*	*	*	*	*	*	*	*
D7295.045	--	19 07.65N 37 21.44E	Fl(2)R 5s	8	6	Beacon	
*	*	*	*	*	*	*	*
D7295.046	--	19 07.56N 37 21.16E	Fl G 5s	8	6	Beacon	
*	*	*	*	*	*	*	*
D7295.047	- Osman Digna Port	19 07.09N 37 20.73E	F R	8	6	Beacon	
*	*	*	*	*	*	*	*
D7295.05	TOWARTIT REEFS. INSHORE CHANNEL TO SAWAKIN - North-eastwards of Sawakin. No 9	19 09.71N 37 24.44E	Fl W 10s	8	5	Red framework tower on red concrete base, white bands	ILRS Vol 2 Station 76105
*	---	..	Racon	..	..	..	*
D7295.06	- Towartit Reefs. Al Mansooriya. No 8	19 13.31N 37 23.14E	Q W	8	5	Red framework tower on red concrete base	
*	*	*	*	*	*	*	*

7.3

No	Name & Location	Position (Lat-Long)	Characteristics	Ht. mts	Range miles	Structure & Height (mts)	Remarks
D7295.07	- Al Mansooriya	19 13.79N 37 23.30E	Fl R 5s	10	5	Red metal framework tower, white bands, on red base	
*	*	*	*	*	*	*	*
D7295.08	- Mersa Kuwai. No 3	19 14.33N 37 20.46E	Fl(3)G 15s	8	7	Black framework tower, white bands, on black concrete base	
*	*	*	*	*	*	*	*
D7295.09	- Sha ab Ata. No 7	19 16.52N 37 23.16E	Fl(3)R 15s	8	5	Red framework tower on red concrete base, white stripes	
*	---	..	Racon	..	..	..	ILRS Vol 2 Station 76102
*	*	*	*	*	*	*	*
D7295.1	- Williamson Shoals	19 17.85N 37 27.58E	Fl(2)W 5s	9	5	Red and white metal framework tower	
*	*	*	*	*	*	*	*
D7295.11	- Keeriya. No 6	19 18.24N 37 22.58E	Fl(2)R 10s	8	5	Red framework tower on red concrete base, white stripes	
*	*	*	*	*	*	*	*
D7295.12	- Hadaraweb. No 2	19 22.10N 37 19.44E	Fl(2)G 10s	8	7	Black framework tower, white bands, on black concrete base, white stripes	
*	*	*	*	*	*	*	*
D7295.13	- Bashayer II Oil Terminal. Petrodar Terminal. SPM	19 23.12N 37 19.83E	Mo(U)W	..	..	Yellow SPM	
*	----	..	Horn Mo(U)	*	*	*	*
D7295.14	- Bashayer Oil Terminal, (Marsa ain Harees). CALM/SPM	19 24.11N 37 19.38E	Mo(U)W	..	..	Tanker mooring buoy	
*	----	..	Horn Mo(U)	..	..	..	ILRS Vol 2 Station 76100
*	*	*	*	*	*	*	*
D7295.15	- Bashayer Oil Terminal. Jetty. Head	19 24.51N 37 18.38E	Fl W 5s	10	10		
*	*	*	*	*	*	*	*
D7295.16	- No 4	19 28.04N 37 19.53E	Q R	8	5	Red framework tower on red concrete base	
*	*	*	*	*	*	*	*
D7295.17	- North Towartit Reef. Towartit Reefs Anchorage. S Beacon	19 28.90N 37 19.71E	Fl G 10s	8	5	Black metal framework tower on black concrete base, white stripes	fl 1. TE 1988
*	*	*	*	*	*	*	*
D7295.18	- Towartit Elbow	19 29.30N 37 17.82E	Fl(4)W 20s	6	6	Red metal framework tower on red and white chequered concrete base	(fl 0.5, ec 1)x3, fl 0.5, ec 15. TE 1988
*	*	*	*	*	*	*	*
D7295.19	- North Towartit Reef. Towartit Reefs Anchorage. N Beacon	19 29.89N 37 20.18E	Fl W 7.5s	8	5	Metal framework tower on red concrete base, white bands	fl 0.7. TE 1988
*	*	*	*	*	*	*	*
D7295.195	--- N Beacon	19 30.56N 37 19.18E	Q R	8	4	White metal framework tower, black bands, on black and white chequered concrete base	
*	----	..	Racon	..	..	..	ILRS Vol 2 Station 76097
*	*	*	*	*	*	*	*
D7295.3	PORT SUDAN - Al Khair Oil Terminal. SW end	19 34.96N 37 15.01E	Q R 4s	10	..	GRP lantern	
*	*	*	*	*	*	*	*
D7295.35	-- NW end	19 35.18N 37 14.86E	Q(3)W 10s	2	..	Concrete beacon	
*	*	*	*	*	*	*	*

7.4

No	Name & Location	Position (Lat-Long)	Characteristics	Ht. mts	Range miles	Structure & Height (mts)	Remarks
D7295.355	-- NE end	19 35.20N 37 14.89E	Q(3)W 5s	2	..	Concrete beacon	
*	*	*	*	*	*	*	*
D7295.5	- Entrance. S shore	19 35.35N 37 14.92E	FI(2)W 10s	19	10	Stone tower, white band 22	fl 0.5, ec 1, fl .5, ec 8
*	*	*	*	*	*	*	*
D7295.6	--- Damma Damma	19 35.79N 37 14.57E	Q R	8	6	Red and white chequered metal framework tower, concrete base	
*	*	*	*	*	*	*	*
D7295.61	-- N Shore	19 36.26N 37 14.24E	FI(2)G 5s	8	4		
*	*	*	*	*	*	*	*
D7295.62	-- Main Quay. S end	19 36.34N 37 14.08E	F G	8	3	Green concrete column, white bands 7	
*	*	*	*	*	*	*	*
D7295.63	- Grain Silo Quay. Near head. No 15	19 36.37N 37 13.85E	FI R 3s	8	5	Metal framework tower	fl 1
*	*	*	*	*	*	*	*
D7295.64	- South Town. Coal Quay. E corner. No 17	19 36.43N 37 13.64E	F R	6	..	Concrete structure 5	
*	*	*	*	*	*	*	*
D7295.65	- West Town. Harbour Ldg Lts 305°. Front	19 36.70N 37 13.43E	F R	..	..	Red metal frame work tower 34	R 260°- 320° (60°). Neon
*	*	*	*	*	*	*	*
D7295.655	--- Rear. 0.55M from fron	19 37.00N 37 12.98E	F R	..	..	Red metal framework tower, white band 48	R 260°- 320° (60°). Neon
*	*	*	*	*	*	*	*
D7295.66	- Lts in ine 314°18'. Front. Near Hotel Jetty	19 36.72N 37 13.59E	2 F G	5	..	..	Occas. These Lts in line mark the anchor berths in key anchorage and should not be used for navigating the channel.
*	*	*	*	*	*	*	*
D7295.665	-- Rear. 198m from front	19 36.80N 37 13.51E	2 F G	21	..	..	Occas
*	*	*	*	*	*	*	*
D7295.67	- Anchorage. S	19 36.72N 37 13.59E	2 F G(hor)	..	..	Port offices, S end	
*	*	*	*	*	*	*	*
D7295.68	-- N	19 36.72N 37 13.59E	2 F G(hor)	..	..	Port offices, middle	
*	*	*	*	*	*	*	*
D7295.69	- West Town. NW Quay	19 37.18N 37 13.55E	F R	5	3	Red and white metal framework tower	
*	*	*	*	*	*	*	*
D7295.7	--	19 37.27N 37 13.51E	FI(3)R 10s	4	4.5	Beacon	
*	*	*	*	*	*	*	*
D7295.71	--	19 37.32N 37 13.49E	Q R	5	4.5	Beacon	
*	*	*	*	*	*	*	*
D7295.72	--	19 37.38N 37 13.41E	FI R 5s	4	4.5	Beacon	
*	*	*	*	*	*	*	*
D7295.73	--	19 37.45N 37 13.43E	FI(2)W 5s	5	6	Beacon	
*	*	*	*	*	*	*	*
D7295.74	- East Town. Green Port. No 1	19 36.57N 37 14.53E	Q R	11	7		
*	*	*	*	*	*	*	*
D7295.75	--- No 2	19 36.71N 37 14.64E	Q G	11	7		
*	*	*	*	*	*	*	*

7.5

No	Name & Location	Position (Lat-Long)	Characteristics	Ht. mts	Range miles	Structure & Height (mts)	Remarks
D7295.76	--- No 5	19 37.22N 37 14.78E	Fl G 3s	11	7		
*	*	*	*	*	*	*	*
D7295.77	--- No 6	19 37.32N 37 14.79E	Fl(2)G 5s	11	7		
*	*	*	*	*	*	*	*
D7295.78	PORT SUDAN. SILAYET (WINGATE REEF) - S end	19 37.09N 37 17.24E	Fl G 3s	8	6	Black metal framework tower, white hut, on piles on round concrete base 8	fl 0.3.
*	*	*	*	*	*	*	*
D7295.79	- Nimra Talata	19 38.59N 37 19.42E	Fl(3)W 15s	7	6	Black and white chequered concrete tower 7	(fl 0.5, ec 2.5) x 2, fl 0.5, ec 8.5,
*	--	..	Racon	..	..	..	ILRS Vol 2 Station 76095
*	*	*	*	*	*	*	*
D7295.8	SANGANEB REEF -Sanganeb Reef. S end	19 43.41N 37 26.53E	Fl W 5s	50	19	Round concrete tower and dwelling, white lantern	fl 0.5
*	---	..	Dia 30s	..	..	..	bl 3
*	*	*	*	*	*	*	*
D7295.9	ABINGTON REEF - Abington Reef	20 53.64N 37 27.00E	Fl(2)W 18s	30	15	Brown metal framework tower on concrete base	fl 0.5, ec 5, fl 0.5, ec 12. Vis except where obscured by Makawwar Island
*	*	*	*	*	*	*	*
D7296	Marsa Halaib	22 14.48N 36 39.26E	Fl R 4s	4	3	Beacon	
*	*	*	*	*	*	*	*
D7296.01	BERENICE (BARNIS). APPROACHES. MIDDLE CHANNEL - Horseshoe Reef Beacon	23 48.60N 35 47.93E	Fl R 3s	7	3	Metal tower	
*	*	*	*	*	*	*	*
D7296.02	BERENICE (BARNIS). APPROACHES. MIDDLE CHANNEL. JAZIRAT MUKAWWA - South Jazirat Mukawwa Beacon	23 49.85N 35 48.44E	Fl G 3s	7	3	Metal tower	
*	*	*	*	*	*	*	*
D7296.03	BERENICE (BARNIS). APPROACHES. NORTH CHANNEL - Shap Ra's Banas Beacon	23 51.10N 35 46.50E	Fl R 5s	..	..	.. 5	P A
*	*	*	*	*	*	*	*
D7296.04	BERENICE (BARNIS). - Old Towers. Ldg Lts 270°. Front	23 54.95N 35 28.87E	F R				
*	*	*	*	*	*	*	*
D7296.041	--- Rear	23 54.95N 35 28.75E	F G				
*	*	*	*	*	*	*	*
D7296.05	- Sandy Beacon	23 55.50N 35 30.56E	Fl W 5s	..	3	5	
*	*	*	*	*	*	*	*
D7296.06	- Inner Pass Beacon	23 56.17N 35 29.83E	Fl G 3s	7	3	Metal tower	
*	*	*	*	*	*	*	*
D7296.07	- Inner Port. Ldg Lts 316°. Front	23 56.47N 35 29.40E	F R	..	5	White△ on metal tower	Ra refl
*	*	*	*	*	*	*	*
D7296.071	--- Rear	23 56.55N 35 29.32E	F G	..	5	White▽ on metal tower	Ra refl
*	*	*	*	*	*	*	*
D7296.08	- Farida Point. Ldg Lts 314°. Front	23 56.02N 35 35.05E	F R	11	5	Metal tower with white and green stripes	
*	*	*	*	*	*	*	*
D7296.081	--- Rear	23 56.18N 35 34.88E	F R	17	5	Metal tower with white and green stripes	
*	*	*	*	*	*	*	*

7.6

No	Name & Location	Position (Lat-Long)	Characteristics	Ht. mts	Range miles	Structure & Height (mts)	Remarks
D7296.09	- Philadelphus Point	23 55.85N 35 35.75E	FI R	10	6	Red GRP beacon	
*	*	*	*	*	*	*	*
D7296.1	ABU EL KIZÂN (DAEDALUS REEF) - Abu el Kizân	24 55.93N 35 52.13E	FI(1+2)W 12s	30	15	White round stone tower, black bands, on concrete base, 2-storey dwelling	fl 0.2, ec 5.2, fl 0.2, ec 1, fl 0.2, ec 5.2
	--	..	Racon	..	..	..	ILRS Vol 2 Station 74270. TD 2004
*	*	*	*	*	*	*	*
D7296.2	AL IKHWAN (THE BROTHERS) - Al Ikhwan. N islet	26 18.66N 34 50.64E	FI W 5s	36	17	White round tower on square dwellings 31	fl 0.5. TE 2005
	---	..	Racon	..	..	..	ILRS Vol 2 Station 74280. TD 2004
*	*	*	*	*	*	*	*
D7296.25	Al Qusayr	26 06.08N 34 17.16E	F R	..	5	Transporter	
*	*	*	*	*	*	*	*
D7296.3	SAFAGA (BUR SAFAJAH). APPROACHES - Safaga Ulbur	26 36.45N 34 01.08E	FI W 5s	13	6	White GRP tower with red top	
*	*	*	*	*	*	*	*
D7296.31	- Hyndman Reef. W end. (Handy Man)	26 39.40N 34 02.36E	VQ(9) W 10s	9	5	▽ on yellow beacon, black band	
*	*	*	*	*	*	*	*
D7296.32	- Shi b Shear	26 39.20N 34 06.51E	VQ(3)W 5s	5	5	◊ on black beacon, yellow band	
*	*	*	*	*	*	*	*
D7296.33	- Middle reef	26 42.35N 34 05.92E	Q(3)W 10s	7	5	◊ on black beacon, yellow band	
*	*	*	*	*	*	*	*
D7296.34	- Panorama Reef	26 45.34N 34 04.75E	Q W	9	5	△ on yellow GRP tower, black top	
*	*	*	*	*	*	*	*
D7296.35	SAFAGA (BUR SAFAJAH). JAZIRAT SAFAJAH - Jazirat Safajah. Southward. El Morewood	26 42.07N 33 59.76E	FI(3)G 10s	9	6	Green △, on green GRP tower	
*	*	*	*	*	*	*	*
D7296.36	SAFAGA (BUR SAFAJAH) - Spit Reef. NE end	26 41.47N 33 58.38E	FI(3)R 10s	9	3	Red □ on red GRP tower	
*	*	*	*	*	*	*	*
D7296.37	- Ldg Lts 311°. Front	26 44.20N 33 56.40E	F R	41	3.5	Metal framework tower	
*	*	*	*	*	*	*	*
D7296.371	-- Rear	26 44.37N 33 56.18E	F R	50	3.5	Metal framework tower	
*	*	*	*	*	*	*	*
D7296.38	SAFAGA (BUR SAFAJAH). JAZIRAT SAFAJAH - Jazirat Safajah. Dir Lt. 219°	26 42.90N 33 59.89E	Dir FI WRG 3s	15	W12 R10 G10	White GRP tower	FI G214°-218° (4°). FI W218°-220° (2°). FI R220°-224° (4°)
	---	..	Racon	..	..	..	ILRS Vol 2 Station 74300
*	*	*	*	*	*	*	*
D7296.39	-- NE Beacon	26 45.72N 33 59.56E	Q(3)W 10s	20	5	◊ on black beacon, yellow band	TE 2003
*	*	*	*	*	*	*	*
D7296.4	Ra's Abu Sawmah	26 51.27N 34 00.22E	FI(4)W 20s	30	16	Black metal tower, white top	
	-	..	Racon	..	..	..	ILRS Vol 2 Station 74310
*	*	*	*	*	*	*	*
D7296.5	JAZA'IR JIFTUN - Jiftun as Saghir	27 11.85N 33 58.96E	FI(3)W 20s	30	16	Black galvanised metal tower	
*	*	*	*	*	*	*	*
D7296.51	Al Ghardaqah (Hurghada). Minqar Channel. Abu Minqar	27 12.96N 33 51.14E	FI(2)R 5s	9	..	Red round GRP tower 5	
*	*	*	*	*	*	*	*

7.7

No	Name & Location	Position (Lat-Long)	Characteristics	Ht. mts	Range miles	Structure & Height (mts)	Remarks
D7296.52	- Ldg Lts 194°18'. Front	27 12.53N 33 50.55E	Oc R 5s	55	18	Black and white on black framework tower 15	ec 2. TE 2005
*	*	*	*	*	*	*	*
D7296.521	-- Rear. 404m from front	27 12.32N 33 50.49E	Oc R 5s	76	18	White on black framework tower 18	ec 2
*	*	*	*	*	*	*	*
D7296.53	- Minqar Channel. Hurghada Marina. Entrance	27 13.43N 33 50.58E	Fl R 3s	7	3	..	Ra refl
*	*	*	*	*	*	*	*
D7296.54	----	27 13.46N 33 50.59E	Fl G 3s	7	3	..	Ra refl
*	*	*	*	*	*	*	*
D7296.55	-- Franken Point	27 14.17N 33 50.93E	Fl(2)G 5s	9	..	Green round GRP tower 5	
*	*	*	*	*	*	*	*
D7296.56	-- Al Fanadir	27 15.39N 33 50.64E	Fl G 5s	9	8	Green round GRP tower 5	
*	*	*	*	*	*	*	*
D7296.57	-- Jiftun al Kabir	27 16.10N 33 53.10E	Fl R 5s	9	..	Red round GRP tower 5	
*	*	*	*	*	*	*	*
D7296.58	JAZIRAT UMM QAMAR - Jazīrat Umm Qamar	27 21.51 N 33 54.48 E	Fl W 3s	24	15	Red GRP tower, white stripe	TE 2010
*	--	..	Racon	..	..	..	ILRS Vol 2 Station 74320
D7296.59	Shi b al Irj	27 23.94N 33 52.90E	VQ(3) W 5s	9	..	on black GRP beacon, yellow band 5	TE 2006
*	*	*	*	*	*	*	*
D7296.595	Melana	27 25.27N 33 51.96E	Q(3) W 10s	9	..	on black GRP beacon, yellow band 5	
*	*	*	*	*	*	*	*
D7296.6	Abu Tiq Marina. Beacon. No 7	27 24.51N 33 40.69E	Fl G 5s	5	1	..	fl 0.5
*	*	*	*	*	*	*	*
D7296.61	-- No 8	27 24.51N 33 40.69E	Fl R 5s	5	1	..	fl 0.5
*	*	*	*	*	*	*	*
D7296.62	SHADWAN CHANNEL - Shi b Abu Shayban	27 28.58N 33 49.53E	Q W	9	8	on black round GRP tower, yellow base 5	
*	*	*	*	*	*	*	*
D7296.63	- Jazirat Tawīlah	27 34.75N 33 48.07E	Fl(2)G 5s	11	8	Green round GRP tower 5	TE 2005
*	*	*	*	*	*	*	*
D7296.64	- Suyul as Sughra	27 34.13N 33 50.26E	Fl(2) R 5s	9	..	Red round GRP tower 5	
*	*	*	*	*	*	*	*
D7296.65	JAZIRAT SHAKIR. SUYŪL AL KHUBRĀ - Suyūl al Khubrā	27 33.63 N 33 52.75 E	Fl(4)W 20s	15	15	White GRP tower, black stripe 10	TE 2010
*	*	*	*	*	*	*	*
D7296.7	GULF OF GUBAL. JAZIRAT SHAKIR - Jazīrat Shākīr. SE Point	27 27.17N 34 02.25E	Fl(2)W 20s	37	22	White round stone tower, black stripe, white dwelling, black stripes	W 187°-100° (273°).
*	---	..	Racon	..	..	..	ILRS Vol 2 Station 74330.
*	*	*	*	*	*	*	*
D7296.71	GULF OF GUBAL - Sha b Abu Nuhās	27 34.55N 33 55.99E	Q(3)W 10s	11	7	Red on beacon	fl 1
*	--	..	Racon	..	..	..	ILRS Vol 2 Station 74360
*	*	*	*	*	*	*	*

7.8

No	Name & Location	Position (Lat-Long)	Characteristics	Ht. mts	Range miles	Structure & Height (mts)	Remarks
D7296.72	GULF OF GUBAL. JAZIRAT JUBAL. JAZIRAT JUBAL AS SAGHIRAH - Bluff Point	27 40.80N 33 48.42E	FI W 5s	24	15	White GRP tower 10	TE 2010
*	--	..	Racon	..	..	..	ILRS Vol 2 Station 74390.
D7296.723	GULF OF GUBAL. SINAI PENINSULA - Qad Ibn Haddan. Southward	27 42.25N 34 07.50E	Q(6)+LFI W 15s	9	8	▽ on black beacon, yellow top	Ra refl.
D7296.724	- Ra's Muhammad	27 43.48N 34 14.90E	FI (4) W 30s	15	15	White round GRP tower, black bands 10	Ra refl.
*	--	..	Racon	..	..	..	ILRS Vol 2 Station 75600
D7296.725	- Qad Ibn Haddan.	27 48.28N 34 06.00E	FI W 10s	47	22	White on framework tower 39	ILRS Vol 2 Station 75580 TD 2004
*	--	..	Racon	..	..	..	ILRS Vol 2 Station 75580 TD 2004
D7296.73	GULF OF GUBAL. SHA'B ALI - Sha'b Ali. S end. Shag Rock	27 46.49N 33 53.15E	Q(9)W 15s	12	15	⚓ on yellow beacon, black band	TE 2006
*	----	..	Racon	..	..	..	ILRS Vol 2 Station 75550. TD 2006
D7296.74	GULF OF GUBAL. JUZUR ASHRAFI - NE inner reef near S end. Umm al Kiman	27 47.34N 32 42.38E	FI(3+1)W 15s	38	17	Black brick structure, white bands	Aeromarine. (fl 0.3, ec 1.4) x 2, (fl 0.3, ec 5.5) x 2. TE 2003
D7296.75	GULF OF GUBAL - Umm al Kiman	27 49.63N 33 34.88E	FI W 10s	24	15	Black GRP tower, white stripe 10	TE 2010
D7296.76	- Marsa Zaytiyah. Ldg Lts 257°. Front	27 49.90N 33 34.76E	2 FR(Vert)	14	2	White Δ on metal tower	*
D7296.761	--- Rear. 100m from front	27 49.89N 33 34.69E	2 FR (Vert)	17	2	White Δ on metal tower	*
D7296.77	Ra's Zayt	27 56.96N 33 30.68E	FI(2)W 20s	28	15	White GRP beacon, red stripe 10	TE 2006
D7296.78	Ra's Dubb	28 01.80N 32 24.93E	FI W 5s	45	15	Black GRP tower 10	TE 2006
D7296.8	-	..	Racon	..	..	..	ILRS Vol 2 Station 74480
D7296.8	Ra's Shuqayr.	28 07.88N 33 16.52E	FI(3)W 20s	85	22	White □ on framework tower 17	TE 2006
D7296.81	- S Quay	28 08.03N 33 16.84E	FI R	*	*	*	*
D7296.82	- N Quay	28 08.08N 33 16.86E	FI G	*	*	*	*
D7296.85	Al-Mallahah	28 14.80N 33 09.65E	FI W 10s	12	15	Red GRP tower 10	TE 2007
D7296.86	RÂS GHÂRIB -Sea Berth No 3. Lts in line 265°. Front. No 9	28 19.78N 33 06.63E	F R	13	5	□ on framework tower	*

No	Name & Location	Position (Lat-Long)	Characteristics	Ht. mts	Range miles	Structure & Height (mts)	Remarks
D7296.861	---Rear 240m from Front No 10	28 19.77N 33 06.48E	F R	14	5	□ on framework tower	
*	*	*	*	*	*	*	*
D7296.87	-Sea Berth No.2. Lts in line 264°20'. Front. No 12	28 20.15N 33 06.60E	F R	14	5		
*	*	*	*	*	*	*	*
D7296.871	--- Rear. 480m from Front. No 11	28 20.13N 33 06.31E	F R	24	5		
*	*	*	*	*	*	*	*
D7296.88	- Sea Berth No 3. Lts in line 299° 15'. Front No 8	28 20.43N 33 06.57E	F G	15	5	□ on framework tower	
*	*	*	*	*	*	*	*
D7296.881	--- Rear. 760m from front. No 7	28 20.63N 33 06.15E	F G	38	5	□ on framework tower	
*	*	*	*	*	*	*	*
D7296.89	- Sea Berth No 2. Lts in line 298° 50'. Front. No 5	28 20.50N 33 06.63E	F G	10	5		
*	*	*	*	*	*	*	*
D7296.891	--- Rear. 430m from front. No 4	28 20.61N 33 06.40E	F G	37	5		
*	*	*	*	*	*	*	*
D7296.9	- Sea Berth No 1. Lts in line 269°. Front. No 3	28 20.80N 33 06.59E	F R	11	5		
*	*	*	*	*	*	*	*
D7296.91	--- Rear. 380m from front. No 6	28 20.80N 33 06.36E	F R	49	5		
*	*	*	*	*	*	*	*
D7296.95	- Ras Gharib	28 21.10N 33 06.66E	FI(4)W 20s	46	22	White daymark on white metal framework tower on white dwelling 39	(fl 0.2, ec 2.4)x3, fl 0.2, ec12. W150°-308° (158°). Liable to be obscured by sand storms. TE 2009 ILRS Vol 2 Station 74680
*	--	..	Racon	..	..	..	*
D7296.96	- Sea Berth No 1. Lts in line 302°40'. Front. No 2	28 21.11N 33 06.60E	F G	12	5		
*	*	*	*	*	*	*	*
D7296.961	--- Rear. 1770 m from Front.	28 21.60N 33 05.59E	F G	22	5		
*	*	*	*	*	*	*	*
D7296.97	False Ras Gharib	28 30.89N 32 57.60E	FI W 5s	11	15	White GRP tower, red stripe 10	
*	*	*	*	*	*	*	*
D7296.98	Ra's Rawāhimī	28 43.20 N 32 49.41 E	FI(3)W 20s	22	15	Black GRP tower 10	TE 2009
*	-	..	Racon	..	..	..	ILRS Vol 2 Station 74740.
D7296.991	Marsa Thilimit. Jetty	29 01.50N 32 38.20E	FI R 2s				*
*	*	*	*	*	*	*	*
D7296.992	--	29 01.82N 32 38.20E	FI G 2s	..	..	..	FI R 10s and FG on new jetty 1M NNW (P) 2004
*	*	*	*	*	*	*	*
D7296.995	- Ldg Lts 302°. Front	29 03.01N 32 37.30E	F R	15	5	White Δ on metal framework tower	Ra refl
*	*	*	*	*	*	*	*
D7296.9951	-- Rear	29 03.10N 32 37.16E	F R	20	5	White ▽ on metal framework tower	Ra refl
*	*	*	*	*	*	*	*
D7297	Ra's az Za'faranah	29 06.71N 32 39.93E	FI W 10s	25	17	White round stone tower and white square dwelling 25	fl 0.3. TE 2006
*	-	..	Racon	..	..	..	ILRS Vol 2 Station74770. TD 2009
*	*	*	*	*	*	*	*

7.10

No	Name & Location	Position (Lat-Long)	Characteristics	Ht. mts	Range miles	Structure & Height (mts)	Remarks
D7297.01	Ra's Abu Daraj	29 22.86N 32 34.06E	Fl(2)W 20s	50	19	White round tower on white square building	fl 0.3, ec 3, fl 0.3, ec 16.4 TE 2009
*	-	..	Racon	..	..	..	ILRS Vol 2 Station 74800. TD 2009
*	*	*	*	*	*	*	*
D7297.02	Port Sokhna Marina. E Breakwater. Elbow	29 26.58N 32 29.28E	Q R	..	..	Round concrete tower, red top	PA
*	*	*	*	*	*	*	*
D7297.03	- N Breakwater. Head	29 26.60N 32 29.28E	VQ G	..	..	Round concrete tower, green top	PA
*	*	*	*	*	*	*	*
D7297.05	'Ayn Sukhna	29 36.12N 32 20.52E	Fl W 5s	44	22	White daymark on framework tower 39	
-	-	..	Oc WRG	40	15	..	G260°-273° (13°), W273°-298° (25°), R298°- 306° (8°)
-	-	..	Racon	..	..	..	ILRS Vol 2 Station 74890. TD 2009.
*	*	*	*	*	*	*	*
D7297.06	NORTH AIN SUKHNA PORT (SOKHNA PORT)						
-	- S Breakwater. Head	29 38.63N 32 22.31E	Fl R 3s	..	6	Red metal column 2	
*	*	*	*	*	*	*	*
D7297.07	- N Breakwater. Head	29 39.02N 32 22.21E	Fl G 3s	..	6	Green metal column 2	
*	*	*	*	*	*	*	*
D7297.08	- Ldg. Lts 270°. Front	29 38.82N 32 21.11E	Oc W 6s	..	9	White metal column	ec 2. Vis 4.5° each side of leading line
*	*	*	*	*	*	*	*
D7297.081	-- Rear. 280m from front	29 38.82N 32 20.94E	Oc W 6s	..	9	White metal column	ec 2. Vis 4.5° each side of leading line
*	*	*	*	*	*	*	*
D7297.09	Ra's Muhajjarah	29 48.61N 32 28.18E	Fl(4)W 15s	43	18	Framework tower 39	
-	-	..	Racon	..	..	..	ILRS Vol 2 Station 74980. TD 2009
*	*	*	*	*	*	*	*
D7297.1	SUEZ BAY (BAHR AL QULZUM)						
-	- Sha'b Mansiyah	29 52.87 N 32 30.39 E	Fl R 4s	6	..	+ on black and white framework structure	
*	*	*	*	*	*	*	*
D7297.11	-Sha'b Ataqah	29 53.08N 32 29.45E	Oc G 3s	11	3	White framework tower, black bands.	
*	*	*	*	*	*	*	*
D7297.12	- 'Ataqah. Fishing Harbour Jetty	29 53.76N 32 27.70E	Fl R 4s	..	..	Red post	fl 0.5
*	*	*	*	*	*	*	*
D7297.13	--- Breakwater. SW End	29 53.79N 32 27.76E	Fl G 4s	..	..	Green post	fl 0.5
*	*	*	*	*	*	*	*
D7297.14	---- NE end	29 53.93N 32 27.93E	Fl R 4s	..	..	Red post	fl 0.5
*	*	*	*	*	*	*	*
D7297.15	--- Outer Mole. Head	29 53.91N 32 27.99E	Fl G 4s	..	..	Green Post	fl 0.5
*	*	*	*	*	*	*	*
D7297.16	-Oil Berth	29 55.02N 32 30.66E	Mo(U)W 15s				
*	*	*	*	*	*	*	*
D7297.17	SUEZ BAY (BAHR AL QULZUM). QAL AH KABIRAH						
-	- Al Jazirat al Khadrâ'. Off S end	29 54.59N 32 31.79E	Q W	23	..	Metal framework tower	TE 2008
*	*	*	*	*	*	*	*
D7297.18	SUEZ BAY (BAHR AL QULZUM). BUR IBRAHIM (PORT IBRAHIM)						
-	- Al Mina' al Jadidah	29 56.42N 32 32.39E	Fl R				
*	*	*	*	*	*	*	*

7.11

No	Name & Location	Position (Lat-Long)	Characteristics	Ht. mts	Range miles	Structure & Height (mts)	Remarks
D7297.19	- Petroleum Basin. E Arm. Head	29 57.06N 32 32.02E	F G				
*	*	*	*	*	*	*	*
D7297.2	-- Ldg Lts 334°. Front	29 57.30N 32 31.81E	Oc R	7	. .	Mast	Shown when vessels are entering or leaving the basin
*	*	*	*	*	*	*	*
D7297.21	--- Rear. 130m from front	29 57.36N 32 31.77E	2 Oc R (vert)	13	. .	Mast	2m apart. Shown when vessels are entering or leaving the basin.
*	*	*	*	*	*	*	*
D7297.22	- Detached Breakwater. W end	29 56.23N 32 32.63E	FI G 2s	8	5	Black and white metal beacon	fl 0.3
*	*	*	*	*	*	*	*
D7297.23	-- E end	29 56.20N 32 33.25E	Q W	8	5	Black and White metal structure	
*	*	*	*	*	*	*	*
D7297.24	- N Mole. Head	29 56.25N 32 33.36E	F R	8	4	White tower, black bands	
*	*	*	*	*	*	*	*
D7297.25	- S Mole. Head	29 56.19N 32 33.39E	F G	8	4	White tower, black bands	
*	*	*	*	*	*	*	*
D7297.26	- Ldg Lts 060°. Front	29 56.30N 32 33.54E	F W	12	6	Black and white framework tower	
*	*	*	*	*	*	*	*
D7297.27	-- Rear. 200m from front	29 56.35N 32 33.65E	F WR (vert)	25	W10 R 6	Black and white framework tower	6m apart
*	*	*	*	*	*	*	*
D7297.28	SUEZ BAY (BAHR AL QULZUM) - Birkat Misallat. South-eastwards	29 54.44N 32 35.60E	FI W 3s	42	18	White daymark on metal framework tower 39	TE 2009
*	*	*	*	*	*	*	*
	---	. .	Racon	. .	. .	. .	ILRS Vol 2 Station 75400. TD 2009.
D7297.29	- Newport Rock	29 53.11N 32 33.08E	FI W 5s	17	10	Tripod on 3-pile structure 9	Channels are marked by buoys and buoyant beacons carrying R or G lights. TE 2009
*	*	*	*	*	*	*	*
D7297.3	SINAI PENINSULA - Qād al Tawīla	29 47.81 N 32 38.42 E	FI W 10s	47	18	White daymark on framework tower 39	
*	--	. .	Racon	. .	. .	. .	ILRS Vol 2 Station 75430
D7297.31	- Lahāṭa	29 40.38N 32 41.23E	FI(3)W 15s	47	18	White daymark on framework tower 39	
*	--	. .	Racon	. .	. .	. .	ILRS Vol 2 Station 75460 TD 2007
D7297.4	-Abu Zanimah. Approaches	29 02.50N 33 06.50E	FI R 3s	6	6	Red metal tower	
*	*	*	*	*	*	*	*
D7297.41	-- Ldg Lts 334°. Front	29 02.80N 33 06.64E	F R	12	5	Δ on white metal tower, black bands	
*	*	*	*	*	*	*	*
D7297.411	--- Rear. 150m from front	29 02.88N 33 06.60E	F R	15	5	▽ on white metal tower, black bands	
*	*	*	*	*	*	*	*
D7297.42	-- Ldg Lts 012°. Front	29 02.70N 33 07.11E	F G	12	5	Δ on white metal tower, black bands	
*	*	*	*	*	*	*	*
D7297.421	--- Rear. 90m from front	29 02.75N 33 07.12E	F R	16	5	▽ on white metal tower, black bands	
*	*	*	*	*	*	*	*

7.12

No	Name & Location	Position (Lat-Long)	Characteristics	Ht. mts	Range miles	Structure & Height (mts)	Remarks
D7297.43	- Ra's Badran. SBM	28 56.15N 33 07.92E	Mo(U)Y	..	5	Buoy	Marks pipeline
*	---	..	Horn Mo(U) 120s	..	..	..	Omnidirectional
D7297.5	- El Tur (At Tur). Grafton Reef	28 13.63N 33 36.58E	Fl W 3s	5	5	White square tower, black band	Ra refl. TE 2004
D7297.51	-- Boat Harbour Breakwater. Head	28 13.70N 33 37.26E	F R	..	..	..	Occas
D7297.52	-- Ldg Lts 095°. Front	28 13.39N 33 37.49E	F G	..	..	Δ on Beacon	Lead between Grafton beacon and Erg Riyadh. Shown only during the pilgrimage season, or by request, when vessels are expected.
D7297.521	--- Rear. 470m from front	28 13.37N 33 37.76E	F R	..	..	○ on Beacon	
D7297.53	-- Irq ar Riyadh. Reef	28 12.83N 33 36.29E	Oc G	..	..	Wreck	
D7297.6	SINAI PENINSULA - Sharm El Sheikh Port. Sharm el Sheikh (Sharm ash Shaykh)	27 50.54N 34 16.56E	Oc R 5s	7	3	Red beacon	ec 2 TE 2006
D7297.61	---	27 51.00N 34 17.16E	Oc G 5s	7	3	Green beacon	ec 2 TE 2006
D7297.62	-- Ras Umm Sudd	27 51.00N 34 18.88E	Fl(3)W 20s	45	22	White on framework tower 17	
	---	..	Racon	..	..	..	ILRS Vol 2 Station 75610 TD 2004.
D7297.65	STRAIT OF TIRAN. GRAFTON PASSAGE. JAZIRAT TIRAN - Chisholm Point	27 56.74N 34 30.18E	Fl(2+1)W 20s	12	9	White GRP beacon 10	
	--	..	Racon	..	..	..	ILRS Vol 2 Station 75660
D7297.67	STRAIT OF TIRAN. INTERPRISE PASSAGE. SINAI PENINSULA - Tower	27 58.80N 34 26.16 E	Fl W 10s	13	15	Green GRP tower 10	
	--	..	Oc G 7s	..	8	..	ec 2. Sync with E6040-7 ILRS Vol 2 Station 75620
D7297.68	- Ra's Nasranl Airfield	27 59.04N 34 23.96 E	2 F R (vert)	..	..	..	PA
D7297.69	- Light	28 00.23N 34 25.78E	F RW (vert)	..	..	..	PA
D7297.7	STRAIT OF TIRAN. ENTERPRISE PASSAGE. GORDON REEF - Gordon Reef. SW end	27 59.16N 34 27.03E	Oc R 7s	13	8	Red and white GRP beacon 10	ec 2. Ra Refl. Sync with E6040-5 Oc G 7s ILRS Vol 2 Station 75630
	---	..	Racon	..	..	..	
D7297.71	STRAIT OF TIRAN. GRAFTON PASSAGE. JAZIRAT TIRAN - Johnson Point. Westwards	27 59.84N 34 29.02E	Fl(2)G 5s	9	8	Green GRP tower 5	Sync with E6040. 72. TE 2001
D7297.72	STRAIT OF TIRAN. GRAFTON PASSAGE. JACKSON REEF - Jackson Reef. E side	28 00.46N 34 28.53E	Fl(2)R 5s	9	8	Red GRP tower 5	Sync with E6040.74

7.13

No	Name & Location	Position (Lat-Long)	Characteristics	Ht. mts	Range miles	Structure & Height (mts)	Remarks
D7297.73	STRAIT OF TIRAN. GRAFTON PASSAGE. JAZIRAT TIRAN - Johnson Point. North-westward	28 00.83N 34 29.17E	Fl G 5s	9	8	White GRP tower, green top 6	TE 2007
*	*	*	*	*	*	*	*
D7297.74	STRAIT OF TIRAN. SINAI PENINSULA - Nabq	28 03.43N 34 26.06E	VQ(3)W 5s	8	5	Black GRP tower, yellow band 6	W 185°-345° (160°), Ra refl.
*	*	*	*	*	*	*	*
D7297.75	-Al Fawz. South-eastward	28 03.50N 34 26.69E	Q(3)W 10s	7	5	On black beacon, yellow band	
*	*	*	*	*	*	*	*
D7297.76	Wādī Kīd	28 10.36N 34 26.97 E	Q(3)W 10s	11	8	Black round GRP tower, yellow band 9	W 192°-293° (101°) Ra refl
*	-	..	Racon	..	..	..	ILRS Vol 2 Station 75650
*	*	*	*	*	*	*	*
D7297.77	Dhahab	28 29.92N 34 31.09E	Fl(2)W 20s	20	15	White round GRP tower, black band 10	Ra refl. TE 1997
*	-	..	Racon	..	..	..	ILRS Vol 2 Station 75680
*	*	*	*	*	*	*	*
D7297.78	Al Mamlah. Gebel Sukhn	28 45.67N 34 34.54E	Q R	..	..	Radio mast	
*	*	*	*	*	*	*	*
D7297.79	SINAI PENINSULA - Nuwaybi	29 01.59N 34 39.42E	Fl(2+1)W 10s	46	15	White round GRP tower 10	Ra refl.
*	--	..	Racon	..	..	..	ILRS Vol 2 Station 75700 TD2005
*	*	*	*	*	*	*	*
D7297.8	- Taba Heights. Marina. Breakwater	29 22.48N 34 47.68E	Fl R 5s	..	5	..	fl 0.5
*	*	*	*	*	*	*	*
D7297.81	----	29 22.48N 34 47.68E	Fl G 5s	..	5	..	fl 0.5
*	*	*	*	*	*	*	*
D7297.9	EILAT - Eilat. South west-ward	29 29.96N 34 54.77E	Fl W 10s	64	21	White concrete tower, black bands	fl 1. TE 2006
*	*	*	*	*	*	*	*
D7297.91	- KATZA OIL TERMINAL. South Oil Jetty. SW end	29 30.99N 34 55.77E	Fl G 2s	..	2		
*	*	*	*	*	*	*	*
D7297.92	--- Berth. SW end	29 31.04N 34 55.86E	F G				
*	*	*	*	*	*	*	*
D7297.93	--- Inner side	29 31.07N 34 55.86E	F R				
*	*	*	*	*	*	*	*
D7297.94	----	29 31.09N 34 55.88E	F R				
*	*	*	*	*	*	*	*
D7297.95	--- Berth. NE end	29 31.10N 34 55.91E	F G				
*	*	*	*	*	*	*	*
D7297.96	--- Ldg Lts 011°58'. Front. NE end	29 31.23N 34 55.98E	Fl(2)Y 10s	..	3		
*	*	*	*	*	*	*	*
D7297.961	---- Rear. 620m from front	29 31.57N 34 56.06E	Fl Y 5s	..	3		
*	*	*	*	*	*	*	*
D7297.97	- Port of Eilat. South Quay. Basin entrance. SE side	29 32.02N 34 56.58E	F R	..	2		
*	*	*	*	*	*	*	*
D7297.98	--- NW side	29 32.04N 34 56.55E	F G	..	2		
*	*	*	*	*	*	*	*

7.14

No	Name & Location	Position (Lat-Long)	Characteristics	Ht. mts	Range miles	Structure & Height (mts)	Remarks
D7297.99	-	29 33.02N 34 57.39E	Aero A1FI (10)WG 60s	..	..	Building	
*	*	*	*	*	*	*	*
D7297.995	- Marina	29 32.89N 34 57.63E	FI (1+3+6)R	..	2		
*	*	*	*	*	*	*	*
D7298	AL'AQABA	29 32.33N 34 59.17E	Oc R 2s	..	..	Red framework tower	
*	-	..	F R(vert)	*	*	*	*
D7298.1	- Yacht Club Entrance. S side	29 31.74N 34 59.87E	Q G	..	..	White round tower, green top	
*	*	*	*	*	*	*	*
D7298.15	-- N side	29 31.76N 34 59.90E	FI R	..	..	White round tower, red top	
*	*	*	*	*	*	*	*
D7298.2	- Control Tower	29 30.82N 34 59.82E	FI(3)W 10s	72	17	White round concrete tower	(fl 0.2, ec 1.1) x 2, fl 0.2, ec 7.2.
*	*	*	*	*	*	*	*
D729.21	- Southward	29 26.79N 34 58.06E	Q(9)W 15s	9	7	White metal structure	
*	*	*	*	*	*	*	*
D7298.22	Tala Bay. Entrance channel. Breakwater	29 24.54N 34 58.65E	FI R 5s	..	2	..	fl 0.5
*	*	*	*	*	*	*	*
D7298.23	---	29 24.54N 34 58.65E	FI G 5s	..	2	..	fl 0.5
*	*	*	*	*	*	*	*
D7298.24	Royal Jordanian Naval Base. Wave Barrier. N end	29 23.85N 34 57.84E	FI R 2s	3			
*	*	*	*	*	*	*	*
D7298.245	-- S end	29 23.82N 34 57.83E	FI R 2s	3			
*	*	*	*	*	*	*	*
D7298.25	- Internal Berth. Entrance. E Side	29 23.80N 34 57.91E	FI R 2s	9			
*	*	*	*	*	*	*	*
D7298.255	--- W side	29 23.78N 34 57.87E	FI G 2s	..	..	Beacon	
*	*	*	*	*	*	*	*
D7298.26	El 'Aqaba Industiral Port. East Shoal	29 22.09N 34 57.58E	F R	..	..	White Δ on white metal column, red stripes	
*	*	*	*	*	*	*	*
D7298.262	- JFI Jetty. N side	29 22.10N 34 57.52E	2 F R(vert)				
*	*	*	*	*	*	*	*
D7298.265	-- S side	29 21.93N 34 57.51E	2 F G(vert)				
*	*	*	*	*	*	*	*
D7298.3	JAZIRAT ABU SHUSHAH - Jazirat Abu Shushah	27 55.74N 34 54.15E	FI W 10s	99	9	Metal structure 1	fl 0.5
*	*	*	*	*	*	*	*
D7298.31	BURQAN ISLAND - Burqan	27 54.58N 35 04.20E	FI W 4s	38	9	Metal structure 1	fl 0.5
*	*	*	*	*	*	*	*
D7298.32	Ash Sharma. Ldg. Lts 036°. Front	27 55.63N 35 16.44E	Q W				
*	*	*	*	*	*	*	*
D7298.321	-- Rear. 336m from front	27 55.86N 35 16.62E	Q W				
*	*	*	*	*	*	*	*
D7298.33	Jaza ir Sila	27 39.13N 35 16.77E	FI W 12s	15	12		
*	-	..	Racon	..	..	..	ILRS Vol 2 Station 75750
*	*	*	*	*	*	*	*

No	Name & Location	Position (Lat-Long)	Characteristics	Ht. mts	Range miles	Structure & Height (mts)	Remarks
D7298.34	Port of Duba. No1	27 33.73N 35 31.77E	Fl G 3s				
*	*	*	*	*	*	*	*
D7298.35	- No 2	27 33.85N 35 31.81E	Fl R 3s				
*	*	*	*	*	*	*	*
D7298.36	- No 3	27 33.69N 35 32.15E	Fl G 1.5s				
*	*	*	*	*	*	*	*
D7298.37	- No 4	27 33.79N 35 32.17E	Fl R 1.5s				
*	*	*	*	*	*	*	*
D7298.38	- No 5	27 33.64N 35 32.53E	Fl(2)G 3s				
*	*	*	*	*	*	*	*
D7298.39	- No 6	27 33.75N 35 32.54E	Fl(2)R 3s				
*	*	*	*	*	*	*	*
D7298.4	Ar Wajh	26 12.28N 36 28.43E	Aero AIFI WG 5s				
*	*	*	*	*	*	*	*
D7298.41	Shi'b Shu'aybah. No 3	24 29.73N 37 07.33E	Fl(2)W 6s	7	5	Black pile, red band	Lit beacons Nos 4, 7, 2, 5 and 6 mark reefs eastward
*	*	*	*	*	*	*	*
D7298.42	- No 11	24 23.65N 37 09.52E	Fl(2)W 20s	7	5	Black pile, red band	Lit beacons Nos 9, 8, 12 and 13 mark reefs eastward
*	*	*	*	*	*	*	*
D7298.43	Sharm al Khaur. No 20	24 14.16N 37 39.06E	Fl R 5s	5	2	Red pile	Passage into Sharm al Khaur marked by lit Beacons
*	*	*	*	*	*	*	*
D7298.44	- No 21	24 13.79N 37 39.34E	Q W	7	4	Yellow pile, black top	Lit beacons No 22, 23, 24 and 26 mark reefs south- eastwards
*	*	*	*	*	*	*	*
D7298.45	MADINAT YANBU AS SINAIYAH-MINA AL MALIK FAHD. NW APPROACHES - Shi'b ash-Sharm (Schermo)	27 03.37N 37 51.54E	Fl W 5s	10	11	Mast on concrete block	
	--	..	Horn 20s	..	..	..	bl 4
	--	..	Racon	..	..	..	ILRS Vol 2 Station 75780
*	*	*	*	*	*	*	*
D7298.46	-- No. 29	24 00.26N 37 53.03E	Q(6)+LFI W 15s	7	4	Black pile, yellow top	
*	*	*	*	*	*	*	*
D7298.47	- Sharm Yanbu. West. No. 27	24 08.51N 37 55.56E	Fl R 2s	5	2	Red pile	
*	*	*	*	*	*	*	*
D7298.48	-- East. No 28	24 08.42N 37 55.85E	Fl G 2s	5	2	Green pile	
*	*	*	*	*	*	*	*
D7298.49	MADINAT YANBU AS SINA'IYAH-MINA 'AL MALIK FAHD. NW APPROACHES. YANBU 'AL BAHR- PORT OF YANBU - No 2	24 03.99N 38 02.81E	Q R	..	5	Beacon	
*	*	*	*	*	*	*	*
D7298.5	- No 1	24 03.99N 38 03.04E	Q G	..	5	Beacon	
*	*	*	*	*	*	*	*
D7298.51	- No 6	24 04.34N 38 03.31E	Fl R 2s	..	5	Beacon	
*	*	*	*	*	*	*	*
D7298.52	MADINAT YANBU AS SINA'IYAH-MINA 'AL MALIK FAHD. NW APPROACHES - Umm al Nukuth	24 01.40N 38 02.27E	Fl(2) W 15s	..	10	Black  on black beacon, red band	
*	*	*	*	*	*	*	*
D7298.53	-- No 30	23 57.23N 37 57.64E	Fl(2)W 6s	7	5	Black pile, red band	
*	*	*	*	*	*	*	*
D7298.54	- Shi'b al-Qirin. No 31	23 54.78N 38 01.73E	Q W	7	4	Yellow pile, black top	
*	*	*	*	*	*	*	*

7.16

No	Name & Location	Position (Lat-Long)	Characteristics	Ht. mts	Range miles	Structure & Height (mts)	Remarks
D7298.55	-- No 33	23 52.48N 38 04.55E	Q(3)W 10s	7	4	Black pile, yellow band	
*	*	*	*	*	*	*	*
D7298.56	-- No 36	23 50.37N 38 08.08E	Q(9)W 15s	7	4	∇ on yellow beacon, black band	
*	*	*	*	*	*	*	*
MADINAT YANBU AS SINA'IYAH-MINA 'AL MALIK FAHD. OFFSHORE REEFS							
D7298.57	- Shi'b as Sabah. No 32	23 51.97N 37 53.46E	Q W	7	4	Yellow pile, black top	Marks reef
*	*	*	*	*	*	*	*
D7298.58	-- No 34	23 49.97N 37 54.38E	Q(6)+LFI W 15s	7	4	∇ on black pile, yellow top	
*	*	*	*	*	*	*	*
D7298.59	-- No 35	23 49.32N 37 56.00E	VQ W	7	2	△ on yellow pile, black top	
*	*	*	*	*	*	*	*
D7298.6	-- No 39	23 45.12N 37 59.92E	Q(3)W 10s	7	4	◆ on black pile, yellow band	
*	*	*	*	*	*	*	*
D7298.61	- Mansi. No 41	23 38.96N 38 01.98E	FI(2)W 20s	7	5	Black pile, red band	
*	*	*	*	*	*	*	*
MADINAT YANBU 'AS SINA'IYAH-MINA 'AL MALIK FAHD							
D7298.62	- No 2C	23 56.81N 38 10.54E	Q(6)+LFI W 15s	..	..	∇ on black beacon, yellow top	
*	*	*	*	*	*	*	*
D7298.63	- No 3C	23 57.13N 38 11.23E	Q G	..	..	△ on green beacon	
*	*	*	*	*	*	*	*
D7298.64	- No 4C	23 57.63N 38 11.14E	FI(4) R 10s	..	..	□ on red beacon	
*	*	*	*	*	*	*	*
D7298.65	- Ldg Lts 037° 51'. Front. No 37	23 57.88N 38 11.59E	Q W	..	..	Black △, white stripe, on red and white structure	
*	*	*	*	*	*	*	*
D7298.651	-- Rear. No 38. 220m from front	23 57.98N 38 11.67E	Iso W 7s	..	..	Black △, white stripe, on red and white structure	
*	*	*	*	*	*	*	*
D7298.66	- No 9C	23 57.98N 38 11.58E	Q(9)W 15s	..	..	∇ on yellow beacon, black band	
*	*	*	*	*	*	*	*
D7298.67	- Ldg Lts 015° 22'. Front. No 39	23 58.45N 38 11.48E	Q W	..	..	Red and white post	
*	*	*	*	*	*	*	*
D7298.671	-- Rear. No 40	23 58.47N 38 11.49E	Iso W 7s	..	..	Red and white post	
*	*	*	*	*	*	*	*
D7298.68	- No 14C	23 58.19N 38 11.64E	Iso R 2s	..	..	□ on red beacon	
*	*	*	*	*	*	*	*
D7298.69	- Export Refinery	23 58.59N 38 14.36E	Aero FI W 1.5s	142 75	..	Chinmey	Obstruction. High intensity strobe lights. 2 chimneys close by also marked as reference light
*	*	*	*	*	*	*	*
D7298.7	- No 13C	23 57.56N 38 12.19E	Q G	..	..	△ on green beacon	
*	*	*	*	*	*	*	*
D7298.71	- No 22C	23 57.54N 38 12.46E	Q R	..	..	□ on red beacon	
*	*	*	*	*	*	*	*
D7298.72	- No 19C	23 57.42N 38 12.34E	Q G	..	..	△ on green beacon	
*	*	*	*	*	*	*	*
D7298.73	- No 24C	23 57.36N 38 12.66E	FI R 5s	..	..	□ on red beacon	
*	*	*	*	*	*	*	*
D7298.74	- No 23C	23 57.05N 38 12.83E	Q(3)W 10s	..	..	◆ on black beacon, yellow band	
*	*	*	*	*	*	*	*

7.17

No	Name & Location	Position (Lat-Long)	Characteristics	Ht. mts	Range miles	Structure & Height (mts)	Remarks
D7298.75	- Service Harbour. W Breakwater. Head	23 57.27N 38 12.90E	Oc R				
*	*	*	*	*	*	*	*
D7298.76	-- E Breakwater	23 57.23N 38 12.94E	Oc G				
*	*	*	*	*	*	*	*
D7298.77	- Export Refinery Terminal. No 26C	23 57.02N 38 13.46E	VQ R				
*	*	*	*	*	*	*	*
D7298.78	-- No 28C	23 57.13N 38 13.57E	Q R				
*	*	*	*	*	*	*	*
D7298.79	-- No 30C	23 57.18N 38 13.72E	Oc R 5s				
*	*	*	*	*	*	*	*
D7298.8	-- No 32C	23 57.12N 38 13.81E	Q R				
*	*	*	*	*	*	*	*
D7298.81	-- No 34C	23 57.04N 38 14.16E	Oc R 10s				
*	*	*	*	*	*	*	*
D7298.82	-- No 25C	23 56.94N 38 13.69E	VQ G				
*	*	*	*	*	*	*	*
D7298.83	-- Crude Oil Berths. W end	23 56.63N 38 13.31E	2 F R(vert)				
*	*	*	*	*	*	*	*
D7298.84	-- E end	23 56.15N 38 14.29E	2 F R(vert)	..	..	..	2 F R(vert) mark extremities of the inner berths.
*	---	..	Horn Mo (U) 30s				
*	*	*	*	*	*	*	*
MADINAT YANBU AS SINA'IYAH-MINA 'AL MALIK FAHD. S APPROACHES							
D7298.85	- Yanbu Petromin Refinery Terminal. Entrance. No 1	23 54.91N 38 17.35E	F R	..	..	Red □ on beacon	Berths marked by 2 FR (vert)
*	*	*	*	*	*	*	*
D7298.86	--- No 2	23 54.84N 38 17.56E	F G	..	..	Green Δ on beacon	
*	*	*	*	*	*	*	*
D7298.87	--- No 3	23 55.12N 38 17.47E	F G	..	..	Green Δ on beacon	
*	*	*	*	*	*	*	*
D7298.88	--- No 4	23 55.11N 38 17.25E	F G	..	..	Green Δ on beacon	
*	*	*	*	*	*	*	*
D7298.89	- Ra's al Ma'ajiz. Jetty. NW end	23 48.63N 38 23.89E	Mo(U)G 15s	..	7		
*	*	*	*	*	*	*	*
D7298.9	---	23 48.55N 38 23.99E	Mo(U)R	..	..	..	PA. 3 lights shown from terminal
*	*	*	*	*	*	*	*
D7298.91	--- SE end	23 48.10N 38 24.47E	Mo(U)G 15s	..	7		
*	*	*	*	*	*	*	*
D7298.92	- No 37	23 45.74N 38 17.10E	Q(6)+LFI W 15s	7	4	Black pile, yellow top	
*	*	*	*	*	*	*	*
D7298.93	- No 40	23 42.71N 38 21.09E	Q W	7	4	Yellow pile, black top	
*	*	*	*	*	*	*	*
D7298.94	- No 42	23 39.34N 38 17.81E	Q(9)W 15s	7	4	Yellow pile, black band	
*	*	*	*	*	*	*	*
D7298.95	- S7	23 41.15N 38 28.64E	FI(4) G 12s	12	8	Green Δ on beacon	Ra refl
*	*	*	*	*	*	*	*
D7298.96	- S6	23 38.39N 38 25.17E	FI(4)R 12s	12	8	□ on red beacon	Ra refl
*	*	*	*	*	*	*	*

7.18

No	Name & Location	Position (Lat-Long)	Characteristics	Ht. mts	Range miles	Structure & Height (mts)	Remarks
D7298.97	- S3	23 31.01N 38 29.90E	FI(3)G 10s	12	8	Δ on green beacon	Ra refl
*	*	*	*	*	*	*	*
D7298.98	- No 43	23 31.02N 38 21.19E	Q(9)W 15s	7	4	Yellow pile, black band	
*	*	*	*	*	*	*	*
D7298.99	- Shi'b as Suflani. No 44	23 30.45N 38 14.64E	Q(6)+LF1 W 15s	7	4	Black pile, yellow top	
*	*	*	*	*	*	*	*
D7298.995	- Yanbu South	23 28.13N 38 25.51E	FI WR 10s	32	W20 R17	White round metal tower, red bands	fl 0.2, W200°-090°(250°), R 090°-140° (50°). Ra refl. ILRS Vol 2 Station 75860
*	--	. .	Racon	. .	. .	. .	*
*	*	*	*	*	*	*	*
D7299	RABIGH. APPROACHES - Shi b al Khamsa. No 12	22 44.91N 38 37.16E	FI W 5s	20	16	▽ on black beacon, yellow top	fl 1. Raf refl
*	---	. .	Racon	. .	. .	. .	ILRS Vol 2 Station 75890
*	*	*	*	*	*	*	*
D7299.01	- Shib Al Bayda. No 13	22 43.00N 38 48.10E	Q(6)+LF1 W 15s	12	10	▽ on black metal column with platform, yellow top	Ra refl
*	*	*	*	*	*	*	*
D7299.02	- Tanta Rock. No 14	22 43.60N 38 56.00E	Q W	10	8	Δ on yellow metal column with platform, black top	Ra refl
*	*	*	*	*	*	*	*
D7299.03	RABIGH - Rabigh Industirial Port. No 1	22 43.96N 38 59.02E	Q G	10	5	Yellow and green beacon	
*	*	*	*	*	*	*	*
D7299.04	-- No 3	22 44.22N 38 59.36E	FI G 3s	5	3		
*	*	*	*	*	*	*	*
D7299.05	-- No 4	22 44.33N 38 59.30E	FI R 6s	5	3		
*	*	*	*	*	*	*	*
D7299.06	-- No 5	22 44.40N 38 59.76E	Q(6)+LFI G 15s	5	3		
*	*	*	*	*	*	*	*
D7299.07	-- No 6	22 44.57N 38 59.63E	FI R 3s	5	3		
*	*	*	*	*	*	*	*
D7299.08	-- No 7	22 44.84N 38 59.71E	Q(2)+LFI W 15s	5	3		
*	*	*	*	*	*	*	*
D7299.09	-- No 8	22 44.92N 38 59.98E	FI R	5	3		
*	*	*	*	*	*	*	*
D7299.1	-- No 10	22 45.13N 39 00.57E	FI W 2s	5	3	Yellow beacon	
*	*	*	*	*	*	*	*
D7299.11	-- No 9	22 44.67N 39 00.12E	FI(4)G 10s	5	3		
*	*	*	*	*	*	*	*
D7299.12	- No 11	22 39.92N 38 59.53E	Q(3)W 10s	. .	. .	⬢ on black metal column, yellow band	The entrance to Rabigh refinery is marked by lights
*	*	*	*	*	*	*	*
D7299.2	MINA AL QADIMAH - Qita' al Kirsh	22 25.91N 38 59.78E	VQ(3)W 10s	. .	10		
*	*	*	*	*	*	*	*
D7299.21	- P-06	22 21.69N 39 05.58E	FI W	7	5		
*	*	*	*	*	*	*	*
D7299.22	- P-05	22 20.04 N 39 04.11 E	FI G	7	5		
*	*	*	*	*	*	*	*

7.19

No	Name & Location	Position (Lat-Long)	Characteristics	Ht. mts	Range miles	Structure & Height (mts)	Remarks
D7299.23	- P-04	22 20.32 N 39 04.23 E	FI R	7	5		
*	*	*	*	*	*	*	*
D7299.24	- P-02	22 20.09N 39 04.79E	FI W 3s	7	5		fl 0.5
*	*	*	*	*	*	*	*
D7299.3	- REEFS SOUTH OF MINA AL QADIMAH	22 15.43N 38 57.23E	FI R				
*	*	*	*	*	*	*	*
D7299.31	-	22 14.33N 38 56.92E	FI G				
*	*	*	*	*	*	*	*
D7299.311	-	22 13.43N 38 57.98E	Lit				
*	*	*	*	*	*	*	*
D7299.312	-	22 11.95N 38 58.98E	FI G				
*	*	*	*	*	*	*	*
D7299.313	-	22 12.34N 38 59.05E	FI R				
*	*	*	*	*	*	*	*
D7299.314	-	22 10.97N 38 59.87E	FI G				
*	*	*	*	*	*	*	*
D7299.315	-	22 11.11 N 38 59.98 E	Q R				
*	*	*	*	*	*	*	*
D7299.316	-	22 10.49N 39 00.71 E	Q G				
*	*	*	*	*	*	*	*
D7299.317	-	22 10.71N 39 00.72E	FI R				
*	*	*	*	*	*	*	*
D7299.318	-	22 10.50N 39 01.19E	Lit				
*	*	*	*	*	*	*	*
D7299.319	-	22 10.74N 39 01.51E	FI R				
*	*	*	*	*	*	*	*
D7299.32	-	22 10.62N 39 01.51E	FI G				
*	*	*	*	*	*	*	*
D7299.33	-	22 09.29N 38 56.31E	FI G				
*	*	*	*	*	*	*	*
D7299.34	-	22 08.84N 38 54.79E	FI R				
*	*	*	*	*	*	*	*
D7299.35	-	22 05.31N 38 57.42 E	Q G				
*	*	*	*	*	*	*	*
D7299.36	-	22 04.81N 38 56.73E	FI R				
*	*	*	*	*	*	*	*
D7299.37	-	22 04.14N 38 57.21 E	Q W				
*	*	*	*	*	*	*	*
D7299.38	- Ra's Hâtibah. W	22 01.14N 38 53.64E	FI R				
*	*	*	*	*	*	*	*
D7299.39	- - E	22 00.98N 38 55.33E	FI G				
*	*	*	*	*	*	*	*
D7299.4	- ELIZA SHOALS - Eliza Shoals. N	21 52.83 N 38 54.40 E	Q W				
*	*	*	*	*	*	*	*

7.20

No	Name & Location	Position (Lat-Long)	Characteristics	Ht. mts	Range miles	Structure & Height (mts)	Remarks
D7299.41	-- E	21 46.64 N 38 58.36 E	VQ(3)W15s				
*	*	*	*	*	*	*	*
D7299.42	-- SW. Shi b al Kabir	21 40.90N 39 50.39E	FI WRG 10s	14	W19	White tripod, red band	W 327°-118° (151°), G118°-163° (45°), R163°-327° (164°) ILRS Vol 2 Station 75930
*	----	..	Racon	..	..	..	*
D7299.43	-- SE	21 39.79N 38 59.64E	Q W				
*	*	*	*	*	*	*	*
D7299.44	JEDDAH HARBOUR - Airfield	21 40.64N 39 08.86E	Aero AIFI WG				
*	*	*	*	*	*	*	*
D7299.5	- Approaches. No 31	21 29.94N 39 07.40E	VQ W	8	6	△ on yellow metal column, black top	Ra refl
*	*	*	*	*	*	*	*
D7299.501	-- Ra's al Makhbat	21 30.06N 39 08.02E	FI R 2s	8	6	Red beacon	
*	*	*	*	*	*	*	*
D7299.502	-- Ra's ash Shi'b	21 29.93N 39 08.30E	FI G 2s	8	6	Green beacon	
*	*	*	*	*	*	*	*
D7299.503	-- Shi' b Jahan	21 28.51N 39 07.19E	FI WRG 5s	14	W 15	Red on white structure	W 027°-044° (17°), R044°-093° (49°), W093°-129° (36°), G129°-165° (36°), R 165°-027° (222°). Ra refl
*	*	*	*	*	*	*	*
D7299.504	-- Shi'b Qaham	21 27.19N 39 06.69E	FI WRG 2.5s	14	W14	Black on white structure	fl 0.2. G010°-039° (29°), W039°-064° (25°), R064°-128° (64°), W128°-178° (50°), R178°-010° (192°). Ra refl
*	---	..	Racon	..	..	..	ILRS Vol 2 Station 75960
D7299.505	-- Middle Gateway. N	21 28.01N 39 07.90E	FI R 3s	..	..	Red □ on red metal post, concrete base	075°-105° (30°) Intens. Ra refl
*	*	*	*	*	*	*	*
D7299.506	--- S	21 27.80N 39 08.07E	FI G 3s	..	..	Green △ on black metal post, concrete base	075°-105° (30°) Intens. Ra refl
*	*	*	*	*	*	*	*
D7299.507	-- Inner Gateway. N	21 28.00N 39 08.87E	FI(2)R 6s	..	..	Red □ on red metal post, concrete base	075°-105° (30°) Intens. Ra refl
*	*	*	*	*	*	*	*
D7299.508	--- S	21 27.78N 39 08.94E	FI(2)G 6s	..	..	Green △ on black metal post, concrete base	Intens 075°-105°(30°). Ra refl
*	*	*	*	*	*	*	*
D7299.509	- Control Tower	21 28.11N 39 08.98E	FI(3)W 20s	137	25		
*	*	*	*	*	*	*	*
D7299.51	- Ship Repair Yard. Dolphin A	21 28.58N 39 09.01E	UQ R	3	4	Dolphin	
*	*	*	*	*	*	*	*
D7299.511	-- Dolphin B	21 28.65N 39 08.99E	UQ R	3	4	Dolphin	
*	*	*	*	*	*	*	*
D7299.512	-- S Floating Dock. S W end	21 28.69N 39 08.99E	F W	15	4		
*	*	*	*	*	*	*	*

7.21

No	Name & Location	Position (Lat-Long)	Characteristics	Ht. mts	Range miles	Structure & Height (mts)	Remarks
D7299.513	--- N W end	21 28.71N 39 08.98E	F W	15	4		
*	*	*	*	*	*	*	*
D7299.514	-- N Floating Dock. S W end	21 28.72N 39 08.95E	F W	16	4		
*	*	*	*	*	*	*	*
D7299.515	--- N W end	21 28.74N 39 08.95E	F W	16	4		
*	*	*	*	*	*	*	*
D7299.516	-- Breakwater	21 28.84N 39 09.03E	2 UQ R (vert)	6	3	Framework tower	
*	*	*	*	*	*	*	*
D7299.517	- Tusdeer Container Terminal. Feeder Berth	21 29.04 N 39 09.11 E	F G	..	..	Green beacon	PA
*	*	*	*	*	*	*	*
D7299.518	-- Main Berth	21 29.48 N 39 09.21 E	F R	..	..	Red beacon	PA
*	*	*	*	*	*	*	*
D7299.52	- Approaches. N side	21 23.38N 39 06.39E	FI R	..	..	..	Reported TE 1995
*	*	*	*	*	*	*	*
D7299.521	-- S side. 1A	21 22.78N 39 06.52E	FI G 3s	..	5		
*	----	..	Horn	*	*	*	*
D7299.522	-- N side. 2B	21 24.13N 39 07.87E	FI R 6s	..	5		
*	----	..	Horn	*	*	*	*
D7299.523	-- S side. 2A	21 23.50N 39 08.00E	FI G 5s	..	3	..	Reported TE 1995
*	*	*	*	*	*	*	*
D7299.524	- Ammunition Pier. Approach Channel. S side. A-1E	21 23.84N 39 08.80E	FI G 3s	..	3		
*	*	*	*	*	*	*	*
D7299.525	--- N side. A-2E	21 23.90N 39 08.81E	FI R 2s	..	3		
*	-----	..	Horn	*	*	*	*
D7299.526	- Royal Saudi Naval Facility. Approach Channel. N side. 2E	21 24.75N 39 08.88E	Q R	..	3		
*	*	*	*	*	*	*	*
D7299.527	--- S side. 1E	21 24.63N 39 08.89E	Q G	..	3		
*	*	*	*	*	*	*	*
D7299.528	--- No 6	21 25.38N 39 09.77E	FI R	..	2	Red beacon	
*	*	*	*	*	*	*	*
D7299.529	--- No 5	21 25.31N 39 09.82E	Q G	..	..	Green beacon	
*	*	*	*	*	*	*	*
D7299.53	--- No 8	21 25.56N 39 09.95E	FI R	..	2		
*	*	*	*	*	*	*	*
D7299.531	--- D3+7	21 25.37N 39 10.02E	FI G 2.5s	..	2		
*	*	*	*	*	*	*	*
D7299.532	-- No 9	21 25.59N 39 10.36E	Q G	..	2		
*	*	*	*	*	*	*	*
D7299.533	-- Pier 5. No 13	21 25.72N 39 10.34E	FI Y				
*	*	*	*	*	*	*	*
D7299.534	-- No 14	21 25.86N 39 10.51E	Oc Y				
*	*	*	*	*	*	*	*
D7299.535	-- No 11	21 26.09N 39 10.35E	FI G 5s	..	2		
*	*	*	*	*	*	*	*

No	Name & Location	Position (Lat-Long)	Characteristics	Ht. mts	Range miles	Structure & Height (mts)	Remarks
D7299.536	-- (D2+10) No 10	21 26.08N 39 10.03E	F R	..	2		
*	*	*	*	*	*	*	*
D7299.55	JEDDAH HARBOUR. S APPROACHES - Shi b Mismari	21 19.46N 39 01.88E	FI(3)WR 15s	14	W19	Black on white structure	W025°-185° (160°), R185°-196° (11°), W196°-208° (12°), R208°-025° (177°) Ra refl. Reported TE 1994 ILRS Vol 2 Station 75990
*	--	..	Racon	..	..	..	*
D7299.56	JIZAN. W APPROACHES. FARASAN ARCHIPELAGO. SHI'B FARASAN - Al Baghlah. Sayl Makawa	16 56.60N 41 23.52E	FI W 4s	12	10	Tripod 12	*
D7299.565	--	16 57.08N 41 24.25E	FI(2)W 10s	7	5	White beacon	*
D7299.57	JIZAN. N APPROACHES. FARASAN ARCHIPELAGO - No 2	17 16.83N 41 33.45E	FI(3)W 12s	..	12	Red daymark	
*	--	..	Racon	..	..	..	ILRS Vol 2 Station 76030. TD 1999
D7299.58	- North Ghurab	17 06.32N 42 03.97E	FI W 4s	..	10	Red beacon	*
*	--	..	Racon	..	..	..	ILRS Vol 2 Station 76060
D7299.59	JIZAN. WESTWARD. FARASAN ARCHIPELAGO. SULAIN ISLAND - Sulain Island	16 45.60N 42 12.80E	FI W 10s	..	..	Beacon	*
D7299.6	JIZAN. SOUTH-WESTWARD. FARASAN ARCHIPELAGO. SOUTH MAZARKIFF ISLAND - South Mazarkiff	16 34.47N 42 21.68E	FI (3)W 12s	..	15	Red tripod daymark	*
D7299.7	JIZAN - Small Craft Harbour. N Breakwater. Head	16 53.79N 42 32.07E	FI R 6s	..	5		*
D7299.71	-- S Breakwater. Head	16 53.73N 42 32.09E	FI G 6s	..	5		*
D7299.72	- Jizan Harbour. N Breakwater. Head	16 53.07N 42 31.69E	Q R	8	..	Red metal framework tower	*
D7299.73	-- S Breakwater. Head	16 52.97N 42 31.51E	Q G	7	..	Green metal framework tower	*
D7299.74	-- Ldg Lts 096° 30'. Front	16 52.95N 42 32.26E	Q R				*
D7299.741	--- Rear 300m from front	16 52.93N 42 32.42E	FI R 2s				*
D7299.75	- Jizan Jetty. E breasting Dolphin	16 51.81N 42 32.79E	FI(3) W 12s	..	..	Dolphin	(P) 1999
D7299.76	-- W breasting Dolphin	16 51.81N 42 32.79E	FI(3) W 12s	..	..	Dolphin	(P) 1999
D7299.761	- Oil Terminal. No 1	16 51.06N 42 32.18E	FI Y 10s	..	..	Pile	Marks pipe line
D7299.762	-- No 2	16 51.24N 42 32.42E	FI Y 10s	..	..	Pile	Marks pipe line
D7299.763	-- No 3	16 51.43N 42 32.68E	FI Y 10s	..	..	Pile	Marks pipe line

No	Name & Location	Position (Lat-Long)	Characteristics	Ht. mts	Range miles	Structure & Height (mts)	Remarks
D7299.764	-- No 4	16 51.62N 42 32.92E	Fl Y 10s	..	..	Pile	Marks pipe line
*	*	*	*	*	*	*	*
D7299.765	-- No 5	16 51.85N 42 33.13E	Fl Y 10s	..	..	Pile	Marks pipeline
*	*	*	*	*	*	*	*
D7299.766	-- No 6	16 52.11N 42 33.32E	Fl Y 10s	..	..	Pile	Marks pipeline
*	*	*	*	*	*	*	*
D7300	FARASAN ARCHIPELAGO. DAW HARAB ISLAND - Daw Harab	16 19.36N 41 58.13E	Fl W 4s	15	10	White daymark	Ra refl. TE 2006
*	*	*	*	*	*	*	*
D7300.5	MADIQ KAMARAN. NW APPROACHES - Uqban	15 28.71N 42 24.35E	Fl(2)W 10s	26	12	White round tower	fl 1, ec 1, fl 1, ec 7. TE 2006
*	*	*	*	*	*	*	*
D7300.51	- Al Jabul	15 25.12N 42 31.45E	Fl Y 5s	5	7	Black round tower, red bands	fl 0.5, TE 2006
*	*	*	*	*	*	*	*
D7300.52	- NW Pathces	15 27.60N 42 33.24E	Fl R 3s	6	5	Red topmark on white round tower on piles	fl 0.3. TE 2006
*	*	*	*	*	*	*	*
D7300.53	- Lansdown Shoal	15 31.17N 42 32.96E	Fl G 3s	6	5	Black topmark on white round tower on piles	fl 0.3 TE 2006
*	*	*	*	*	*	*	*
D7300.54	MADIQ KAMARAN. PORT OF AS SALIF. KAMARAN ISLAND - Kamaran Island. N end	15 27.24N 42 37.62E	Fl(2) W 7.5s	8	5	White round tower on concrete base 6	TE 2006
*	*	*	*	*	*	*	*
D7300.55	MADIQ KAMARAN - Harrison Shoal	15 28.94N 42 41.43E	Fl R 5s	6	5	Red topmark on white round tower on piles	fl 0.5 TE 2006
*	*	*	*	*	*	*	*
D7300.56	- Al Khawbah. Fishing Harbour. Breakwater. Head	15 31.73N 42 44.50E	Fl R 3s	..	..	..	fl 0.5 TE 2006
*	*	*	*	*	*	*	*
D7300.57	- Ras as Salif	15 18.95N 42 40.23E	Q(2)W 3s	6	5	White round tower 6	Ra refl TE 2006
*	*	*	*	*	*	*	*
D7300.58	MADIQ KAMARAN. KAMARAN - Jabal al Yaman	15 17.32N 42 34.94E	Fl(3)W 15s	40	10	White tubular framework tower on three concrete pillars 18	(fl 1, ec 1.5) x 2, fl 1, , ec 9. TE 2006
*	*	*	*	*	*	*	*
D7300.59	MADIQ KAMARAN. SW APPROACHES. RASHSHAH - Rashshah	15 10.50N 42 34.18E	Fl W 7s	9	6	White , black top, on metal framework tower on concrete pillars 8	
*	*	*	*	*	*	*	*
D7300.6	MADIQ KAMARAN. SW APPROACHES. RA'S ISA MARINE TERMINAL - SBM	15 08.50N 42 36.50E	Fl W				
*	*	*	*	*	*	*	*
D7300.61	JAZA'IR AZ ZUBAYR. CENTRE PEAK ISLAND - Centre Peak Island	15 00.95N 42 09.81E	Fl W 10s	154	12	Concrete tower 14	TE 2006
*	*	*	*	*	*	*	*
D7300.7	AL HUDAYDAH - Fishing Harbour. S Breakwater. Head	14 46.87N 42 56.69E	Q(2)G 6s				
*	*	*	*	*	*	*	*
D7300.8	ABU ALI ISLANDS. QUOIN ISLAND - Quoin Island	14 04.68N 42 48.89E	Fl(2)W 10s	104	13	White square building, name on side 9	2 fl each of 0.1s. TE 2009
*	*	*	*	*	*	*	*

7.24

No	Name & Location	Position (Lat-Long)	Characteristics	Ht. mts	Range miles	Structure & Height (mts)	Remarks
D7300.81	JABAL ZUGAR ISLAND - Jabal Zugar Island. S end	13 54.70N 42 47.20E	FI W 7s	35	9	Frame work tower 10	TE 2009
*	*	*	*	*	*	*	*
D7300.82	JABAL ZUGAR ISLAND. HANISH AS SUGHRA. LOW ISLAND - Low Island (Jaz al Hanish as Sagir)	13 52.40N 42 49.20E	FI(3)W 15s	..	10	White metal structure 8	TE 2009
*	*	*	*	*	*	*	*
D7300.83	HANISH AL KUBRA - Hanish al Kubra (Jaz al Hanish al Kabir). NE end	13 46.29N 42 47.10E	FI(2)W 12s	..	14	Red framework tower, white top 10	
*	*	*	*	*	*	*	*
D7300.84	-- SW end	13 39.95N 42 40.65E	FI W 5s	200	16	White round GRP tower, red bands 6	fl 0.1. Vis 010° -070° (60°). TE 2009
	--- Emergency light	..	FI W 5s	..	10	..	fl 1
*	---	..	AIS				
*	*	*	*	*	*	*	*
D7300.85	AL MUKHA BAY. AL MUKHA - Breakwater. Head	13 18.93N 43 13.64E	FI G 3s	..	4		
*	*	*	*	*	*	*	*
D7300.86	- Ldg Lts 137°. Front	13 18.68N 43 14.08E	VQ W	..	9		
*	*	*	*	*	*	*	*
D7300.861	-- Rear. 370m from front	13 18.53N 43 14.22E	Iso W 2s	..	9		
*	*	*	*	*	*	*	*
D7300.9	BAB EL MANDEB. MAYYUN (PERIM) ISLAND - Balfe Point	12 39.37N 42 23.24E	FI W 4s	13	11	Black lantern on stone tower 8	W 343°-192° (209°) Reported FI R 4s (T) 2010
*	--	..	AIS				
*	*	*	*	*	*	*	*
D7300.95	- High Light	12 39.28N 43 25.88E	FI(4)W 15s	85	24	Grey stone tower with embattled wall, white lantern 25	(fl 0.2, ec 2.1)x3, fl 0.2, ec 7.9. Reduced range (T) 2006
*	--	..	AIS				
*	*	*	*	*	*	*	*

No	Name & Location	Position (Lat-Long)	Characteristics	Ht. mts	Range miles	Structure & Height (mts)	Remarks
D8800	AIN SUKHANA TERMINAL - SBM No 1	29 35.32N 32 23.69E	Mo(A)W 15s	..	..	Yellow superbuoy	Ra refl
*	--	..	Horn	*	*	*	*
D8801	- SBM NO 2	29 34.22N 32 22.80E	Mo(B)W 15s	..	..	Yellow superbuoy	Ra refl
*	--	..	Horn	*	*	*	*
D8802	- SBM NO 3	29 35.32N 32 22.37E	Mo(C) W 15s	..	..	Yellow superbuoy	Ra refl
*	--	..	Horn	*	*	*	*
D8803	- SBM NO 4	29 34.08N 32 24.44E	Mo(D) W 15s	..	..	Yellow superbuoy	Ra refl
*	--	..	Horn	*	*	*	*
D8804	ZAAFARNA OILFIELD - HB 77-5	29 10.81N 32 41.92E	Mo(U)W 15s	..	10	Platform	
*	--	..	Racon	..	..	..	ILRS Vol 2 Station 74780
D8805	- Oil loading terminal	29 10.48N 32 41.58E	Mo(U)W 15s	..	10	Storage tanker	One on each side
	--	..	3 Mo(U)R 15s	..	5		
	--	..	Horn Mo(U) 30s				
*	*	*	*	*	*	*	*
	NORTH AMER OILFIELD						
D8806	- GG-83-2	28 45.82N 32 55.38E	Mo(U)W 15s	..	..	Platform	
	--	..	Horn Mo(U)				
*	--	..	Racon	..	..	..	ILRS Vol 2 Station 74750
D8807	- FF 83-2	28 49.23N 32 55.02E	Mo(U)W	..	..	Platform	
	--	..	Racon	..	..	..	ILRS Vol 2 Station 74760
*	*	*	*	*	*	*	*
D8808	AMER OILFIELD - AMER - 2	28 32.13N 32 58.34E	Mo(U)W	10	2	Platform	Other installations, marked by Mo(U)W lights, exist in this field
*	*	*	*	*	*	*	*
D8809	- AMER - 8	28 33.13N 32 58.30E	Mo(U)W 10s	..	6	Platform	
*	*	*	*	*	*	*	*
D8811	RAS BUDRAN OILFIELD - RB-PP-B	28 58.12N 33 07.83E	Mo(U)W 15s	..	5	..	Other installations, marked by Mo(U)W lights exist in this field
	--	..	Horn Mo(U) 30s				
*	*	*	*	*	*	*	*
D8812	EAST TANKA OILFIELD - A	28 59.10N 32 56.83E	Mo(U)W	..	..	Platform	
	--	..	Horn Mo(U)				
*	--	..	Racon	..	..	..	ILRS Vol 2 Station 75480
D8813	- F	28 57.00N 32 59.60E	Mo(U)W	..	..	Platform	
*	*	*	*	*	*	*	*

7.26

No	Name & Location	Position (Lat-Long)	Characteristics	Ht. mts	Range miles	Structure & Height (mts)	Remarks
D8814	OCTOBER OILFIELD - October complex-H	28 51.11N 33 04.31E	Mo(U)W 15s	..	..	Platform	Other installations, marked by Mo(U)W lights, exist in this field.
*	--	..	Horn Mo(U) 18s	..	..	..	(U) in 3s
	*	*	*	*	*	*	*
D8815	BELAYIM OILFIELD - Sheratib Shoals. Petrobel D10	28 37.20N 33 06.71E	Q(9)W 15s	23	15	Platform	Others installations, marked by Mo(U)W lights, exists in this field.
*	---	..	Racon	..	..	..	ILRS Vol 2 Station 75490
	*	*	*	*	*	*	*
D8816	SHAB GHARIB OILFIELD - Ras Fanar 1	28 24.28N 33 05.20E	Mo(U)W 15s	17	2	Platform	fl 0.5. Other installations, marked by Mo(U)W lights, exist in this field
*	*	*	*	*	*	*	*
D8817	SG 300	28 18.57N 33 09.13E	Mo(U)W 15s	..	5	Platform	
*	-	..	Racon	..	..	..	ILRS Vol 2 Station 74650
	*	*	*	*	*	*	*
D8819	RAMADAN OILFIELD - GS-277	28 24.74N 33 18.11E	Mo(U) 15s	..	..	Platform	
	--	..	Horn Mo(U) 18s				
*	*	*	*	*	*	*	*
D8820	- Shamal Ramadan	28 19.91N 33 11.90E	Mo(U)W 15s	15	10	Platform	1 on opposite diagonal corners of platform
	--	..	Mo(U)R 15s	..	5	..	1 on opposite diagonal corners of platform
	--	..	Horn Mo(U) 30s				
*	*	*	*	*	*	*	*
D8821	JULY OILFIELD - NJ-1	28 19.18N 33 13.66E	Mo(U)W 15s	..	10	Platform	1 on opposite diagonal corners of platform
	--	..	Mo(U)R 15s	..	5	..	1 on opposite diagonal corners of platform
	--	..	Horn Mo(U) 30s				
*	*	*	*	*	*	*	*
D8822	ASMA-8	28 13.18N 33 20.48E	Mo(U)W 15s	..	10	Platform	1 on opposite diagonal corners of platform
	-	..	Horn Mo(U) 30s				
*	-	..	Racon	..	..	..	ILRS Vol 2 Station 74550
	*	*	*	*	*	*	*
D8823	JULY OILFIELD - July-10 complex	28 14.89N 33 15.28E	Mo(U)W 15s	..	5	Platform	Other installations, marked by Mo(U)W lights, exist in this field
	--	..	Horn Mo (U) 18s				
*	*	*	*	*	*	*	*
D8824	- J-29	28 15.44N 33 14.58E	Lit	..	..	Platform	
	--	..	Racon	..	..	..	ILRS Vol 2 Station 74590
*	*	*	*	*	*	*	*
D8826	- J-58	28 17.41N 33 14.68E	Mo(U)W	..	..	Platform	
*	*	*	*	*	*	*	*
D8827	- J-62	28 14.42N 33 16.87E	Mo(U)W	..	..	Platform	
	--	..	Racon	..	..	..	ILRS Vol 2 Station 74560
*	*	*	*	*	*	*	*

7.27

No	Name & Location	Position (Lat-Long)	Characteristics	Ht. mts	Range miles	Structure & Height (mts)	Remarks
D8828	RAMADAN OILFIELD - Ramadan-6 complex	28 16.75N 33 19.29E	Mo(U)W 15s	..	5	Platform	Other installations, marked by Mo(U)W lighths, exist in this field
*	--	..	Horn 20s	*	*	*	*
D8829	- R-5	28 17.24 N 33 18.64 E	Lit	..	..	Platform	
*	--	..	Racon	..	..	..	ILRS Vol 2 Station 74620
*	*	*	*	*	*	*	*
D8830	BADRI OILFIELD - M-3	28 14.60N 33 25.48E	Mo(U) W 15s	..	3	Platform	Numerous oil installations, marked by lights, are shown in the prohibited areas of Morgan Field (U) in 3s
*	--	..	Horn Mo(U) 18s	..	..	..	*
*	*	*	*	*	*	*	*
D8831	MORGAN OILFIELD - Morgan-8 complex	28 11.30N 33 28.69E	Mo(U) W	..	..	Platforms	Other installations marked by Mo(U)W lights , exist in this field
*	*	*	*	*	*	*	*
D8832	- Morgan-36 complex	28 10.93N 33 27.45E	Mo(U)W	..	..	Platforms	Other installations, marked by Mo(U)W lights, exist in this field.
*	*	*	*	*	*	*	*
D8833	- M-72	28 10.72N 33 26.75E	Lit	..	..	Platform	
*	--	..	Racon	..	..	..	ILRS Vol 2 Station 74510
*	*	*	*	*	*	*	*
D8834	- Morgan-55 Complex	28 10.57N 33 29.45E	Mo(U)W	..	..	Platforms	Other installations, marked by Mo(U)W lights, exist in this field
*	*	*	*	*	*	*	*
D8835	- Morgan-1 complex	28 13.69N 33 26.18E	Mo(U)W	..	..	Platforms	Other installations, marked by Mo(U)W lights, exist in this field
*	*	*	*	*	*	*	*
D8836	- GS-324	28 12.75N 33 24.07E	Mo(U)W 15s	14	6	Platform	1 on opposite diagonal corners of platform
*	--	..	Horn Mo(U) 30s	*	*	*	*
D8837	East of Ras Shukheir LPG Terminal. No 1	28 04.00N 33 23.13E	Mo(U)W 15s	12	10	Platform	TE 2006
*	--	..	Horn Mo(U) 30s	..	..	..	TD 2006
*	*	*	*	*	*	*	*
D8838	SOUTH BELAYIM OILFIELD - GS-347	28 07.45N 33 38.27E	Mo(U)W 15s	..	..	..	Other oil installations, some marked by lights and fog signals, exist in this field. IQ lights on structure 7.5M SSE
*	*	*	*	*	*	*	*
D8839	GULF OF SUEZ OILFIELD - GS- 327	28 12.22N 33 34.55E	Mo(U)W 15s	..	5		
*	--	..	Horn Mo (U) 18s	*	*	*	*
D8840	NESSIM OILFIELD - GS-336	28 08.76N 33 31.78E	Lit	..	..	Platform	Other oil installations exist in this field
*	*	*	*	*	*	*	*
D8841	Felix Jones Patches. GS-345	28 05.34N 33 32.44E	Lit	..	..	Platform	
*	*	*	*	*	*	*	*

No	Name & Location	Position (Lat-Long)	Characteristics	Ht. mts	Range miles	Structure & Height (mts)	Remarks
D8842	AMAL OILFIELD - Felix Jones patches. AMAL-B	28 04.16 N 33 34.31 E	Lit	..	..	Platform	
*	*	*	*	*	*	*	*
D8843	-- AMAL-A	28 03.41 N 33 34.42 E	Lit	..	..	Platform	
*	*	*	*	*	*	*	*
D8844	-- AMAL-9	28 03.69N 33 34.80E	Lit	..	..	Platform	
*	---	.. *	Racon	..	..	..	ILRS Vol 2 Station 75520
			*	*	*	*	*
D8845	WALY OILFIELD - Felix Jones Patches. GS-356	28 02.66N 33 36.19E	Mo(U)W 30s	..	..	Platform	
	---	..	Horn Mo(U) 18s	..	..	..	(U) in 3s
*	*	*	*	*	*	*	*
D8846	GS-365	27 59.80N 33 37.52E	Lit	..	..	Platform	
*	*	*	*	*	*	*	*
D8847	SIDKI B	27 56.63N 33 38.73E	Lit	..	..	Platform	
*	-	.. *	Racon	..	..	..	ILRS Vol 2 Station 74450
			*	*	*	*	*
D8848	GULF OF GUBAL. EAST ZEIT OILFIELD - A	27 52.57N 33 41.07E	Fl W 8s	..	6	Platform	
	--	..	Horn 20s				
*	--	.. *	Racon	..	..	..	ILRS Vol 2 Station 74430
			*	*	*	*	*
D8849	GULF OF GUBAL. ZEIT OIL TERMINAL - Zeit Bay Terminal. SBM	27 49.94N 33 36.27E	Mo(D)W 30.5s	..	..	Yellow Superbuoy	
	---	..	Horn Mo(D) 120s				
*	*	*	*	*	*	*	*
D8850	- East Zeit Terminal. SBM	27 50.91N 33 35.98E	Mo(U)W 15s	..	5	Red superbuoy	
	---	..	Horn 20s				
*	*	*	*	*	*	*	*
D8852	GULF OF GUBAL. EAST ZEIT OILFIELD - C	27 51.43N 33 42.56E	Mo(U)W 15s	12	5	Platform	1 on each corner
	--	..	Horn Mo(U) 30s				
*	--	.. *	Racon	..	..	..	ILRS Vol 2 Station 74425
			*	*	*	*	*
D8853	ZEIT OIL TERMINAL - Marine Park. Prod A	27 44.21N 33 33.81E	Mo(U)W 15s	..	..	Platform	
	---	..	Horn Mo(U) 30s				
*	*	*	*	*	*	*	*
D8854	-- Prod B	27 43.67N 33 34.20E	Mo(U)W 15s	..	..	Platform	
	---	..	Horn Mo(U) 30s				
*	*	*	*	*	*	*	*
D8855	-- Prod C	27 44.96N 33 34.55E	Mo(U)W 15s	..	..	Platform	
	---	..	Horn Mo(U) 30s				
*	*	*	*	*	*	*	*
D8856	-- Prod D	27 43.96N 33 34.88E	Mo(U)W 15s	..	..	Platform	
	---	..	Horn Mo(U) 30s				
*	*	*	*	*	*	*	*

No	Name & Location	Position (Lat-Long)	Characteristics	Ht. mts	Range miles	Structure & Height (mts)	Remarks
D8857	GULF OF GUBAL. SHAB ALI OILFIELD -	27 50.95N 33 51.98E	Mo(U)W 15s	..	..	Platform	Several oil installations, some marked by lights, and fog signals, exist in this field.
*	*	*	*	*	*	*	*
D8858	GULF OF GUBAL. HILAL OILFIELD - 404	27 50.23N 33 43.72E	Mo(U)W 15s	..	8	Platform	
	--	..	Horn Mo(U) 18s	..	..	..	bl 15
	--	..	Racon	..	..	..	ILRS Vol 2 Station 74420
*	*	*	*	*	*	*	*
D8860	GULF OF GUBAL. ASHRAFI OILFIELD - WHP2	27 48.92N 33 42.03E	Lit	..	..	Platform	
	--	..	Racon	..	..	..	ILRS Vol 2 Station 74410
*	*	*	*	*	*	*	*
D8861	-	27 47.87N 33 43.48E	Lit	..	..	Platform	
*	*	*	*	*	*	*	*
D8862	-Prod SW	27 46.92N 33 42.43E	Lit	..	..	Platform	
*	*	*	*	*	*	*	*
D8863	GEISUM OILFIELD - WP-A	27 38.15N 33 42.27E	Mo(U)W	..	..	Platform	Other oil installations, marked by lights and fog signals, exist in this field
	--	..	Horn Mo(U)	*	*	*	*
*	*	*	*	*	*	*	*
D8864	- Gemsa 4/5	27 36.68N 33 39.33E	Lit	..	..	Platform	
*	*	*	*	*	*	*	*
D8865	South West Gabal. Elziet-2	27 35.60N 33 39.80E	Mo(U)W 15s	15	5	Platform	
	---	..	Mo(U)R 15s	15	5		
	---	..	Whis Mo(U) 30s				
*	*	*	*	*	*	*	*

Please delete lights E5996 to E6152 inclusive.

Delete lights E8010 to E8385.5 inclusive.

These lights have been inserted into NP 21(a) Volume D&E in D section of Indian list of lights and Fog signals 2010 edition.

SECTION – VIII
CORRECTION TO LIST OF RADIO SIGNALS

INP 31(1), 2005

(Last correction: Edition No. 07 dated 01 Apr 2013)

NIL

INP 31(2), 2007

(Last correction: Edition No. 15 dated 01 Aug 2013)

PAGE 32, INDIA Section,

Delete Position and replace by

Androth Island , East End Lt Racon
360°

10° 48.93'N 73° 42.10'E **79050**
D

Minicoy Island Lt Racon
93s 192° -150° 18 n miles

08° 16.16'N 73° 01.57'E **79090**
G

(Source: INHO)

(20/13)

INP 31(5), 2011

(Last correction: Edition No. 19 dated 01 Oct 2013)

NIL

INP 31(6), 2012

(Last correction: Edition No. 19 dated 01 Oct 2013)

SECTION – IX

REPORTING OF NAVIGATIONAL DANGERS

Appeal to all Mariners

1. Mariners at sea whilst on passage, or whilst entering / leaving ports / harbours and other waterways, are requested to look out for new or suspected dangers to navigation, changes in aids to navigation, or corrections to published charts and Sailing Directions. Whenever any such changes / dangers are observed, mariners are requested to notify the same to the Chief Hydrographer to the Government of India at the following address: -

National Hydrographic Office
107-A, Rajpur Road,
Dehradun - 248001
(UTTARAKHAND), INDIA
e-mail: - inho-navy@nic.in, msis-inho-navy@nic.in
Fax No.: +91-135- 2748373
WEB: www.hydrobharat.nic.in

Instructions for filling up IH 102

2. Kindly follow the instructions below in order to help the Hydrographic Office (the recipient) to quickly issue NAVAREA warning / Notice to Mariners for the benefit of all other mariners at sea.

Position Reporting

3. Accurate position or knowledge of position error is of great importance. Latitude and Longitude should only be used to specify position details when they have been fixed by GPS or Astronomical Observations. A full description of the method, equipment, time and datum (WGS 84/Everest/Other) used should be given. When position is defined by sextant angles or bearings (true or magnetic to be specified), more than two bearings should be used in order to provide a redundancy check. Distances observed by Radar should be corrected for index errors. Where position is derived after the event, from other observations and/or Dead Reckoning, the methodology of deriving the position should be included.

4. Paper Charts. A copy/tracing of largest scale chart is the best medium for forwarding details, the alterations and additions being shown thereon in red, but adequate details from the chart must be traced in black ink to enable the amendments to be fitted correctly.

5. ENCs. A Screen shot of largest scale usage band ENC with the alterations and additions being shown thereon in red. If it is to report an issue with the display of an ENC, a screen shot of the affected cell should be sent along with details of the ECDIS make and version in use at the time.

Depth Reporting

6. When soundings are obtained using echo sounders, the echo sounding trace should be duly annotated with date, times, position, depths, etc., and forwarded with the IH102. It is important to state whether the echo sounder is set to register depths below the surface or below the keel; in the latter case the vessel's draught should be given. Time and date should be given in order that corrections for the height of the tide may be made where necessary. The make, name and type of echo sounder should also be given.

7. For modern echo sounders that use electronic 'range gating', care should be taken that the correct range scale and appropriate gate width are in use. Older electro-mechanical echo sounders frequently record signals from echoes received back after one or more rotations of the stylus have been completed. Thus with a set whose maximum range is 500m, an echo recorded at 50m may be from depths of 50m, 550m or even 1050m. Soundings recorded beyond the set's nominal range can usually be recognised by the following:

- (a) the trace being weaker than normal for the depth recorded;
- (b) the trace passing through the transmission line;
- (c) the feathery nature of the trace.

As a check that apparently shoal soundings are not due to echoes received beyond the set's nominal range, soundings should be continued until reasonable agreement with charted soundings is reached. However, soundings received after one or more rotations of the stylus can still be useful and should be submitted if they show significant differences from the charted depths. Efforts should be made to identify and negate false echoes if any. The Mariners Handbook (NP100) and Notice 15 Special Edition of Notice to Mariners may be consulted.

8. Reports which cannot be confirmed or are lacking in certain details should not be withheld. Shortcomings should be stressed and any firm expectation of being able to check the information on a succeeding voyage should be notified.

9. Reports of **shoal soundings**, uncharted dangers and aids to navigation out of order should, at the mariner's discretion, also be made by radio to the nearest coast radio station. The draught of modern tankers in such that any uncharted depth under 30 meters or 15 fathoms may be of sufficient importance to justify a radio message.

10. Changes to Port information should be forwarded on Form IH.102A together with form IH.102. Form 102 A contains the information required for Sailing Directions and should be used as an *aide memoir*. The Mariners Handbook, NP100, Chapter 8 gives general instructions. Where there is insufficient space on the forms an additional sheet should be used.

Please Note: - An acknowledgement will be sent by National Hydrographic Office for Hydrographic Notes received. When a Notice to Mariners is issued, the sender's ship or name is quoted as authority unless the information is also received from other authorities/foreign Notices to Mariners. Further communication from National Hydrographic Office to the sender of Hydrographic Notes will only be necessary to verify unusual features or abnormal values reported.

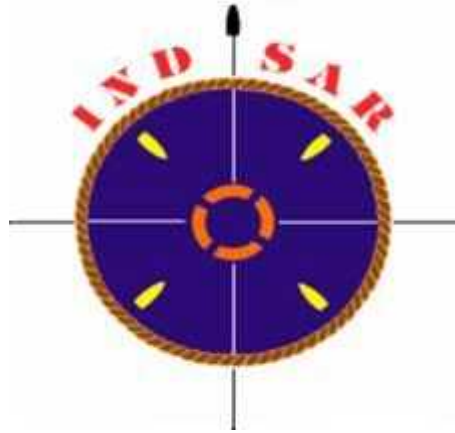


HYDROGRAPHIC NOTE				IH.102 (Revised 2012)	
For Forwarding information for Indian Charts, ENC's and Publications and reporting of ENC related issues					
Date			Ref. Number		
Name of the Ship or Sender					
Address					
Tel/FAX/E-mail address					
Observation Date			Time (UTC/IST)		
Object of Changes Observed (Tick appropriate)	☐ Bathymetry		☐ Nav. Dangers		☐ Nav. Aids
	☐ Designated Areas		☐ Others		
Geographical Position (See Instructions Overleaf)	Latitude			Longitude	
Position Method	☐ DGPS	☐ GPS	☐ Radar	☐ Others	
Datum Used	☐ WGS84	☐ Everest	☐ Others		
Charts Affected				Edition	
Latest Edition of Indian Notices to Mariners Held					
Tracing/Plot/Photograph if enclosed					
ENCs Affected					
Latest Update Disk Held					
Publication Affected				Edition	
Page No./Light No. etc					
Details:					
Limitations if any in Reporting the Changes Above					
Details of Documents/Photos attached:					
Signature of the Master/Reporter/Observer					

HYDROGRAPHIC NOTE FOR PORT INFORMATION (To accompany Form IH.102)		IH.102A (Revised 2012)	
Date		Ref. No.	
Name of the Ship or Sender			
Address			
Tel/Fax/E-mail			
1. NAME OF PORT			
Location	Latitude		Longitude
2. GENERAL REMARKS			
Principal activities and trade			
Number of ships and tonnage handled per year			
Maximum size of draught of vessel handled			
Copy of Port handbook (if available)			
3. ANCHORAGES			
Type / Purpose			
Minimum depth at anchorage			
Shelter afforded			
Holding ground			
Recommended pilotage to the anchorage			
4. PILOTAGE			
Authority for request			
Embarkation position			
Regulations			
Documents to be provided			
Recommended pilotage to approach of Harbour and Berths			
Information on VTMS			
5. DIRECTIONS			
Entry and Berthing Information			
Tides (Height)			
Tidal Stream Information			
Wind Speed and Direction			
Navigational Aids (Beacons / Buoys / Lights / Etc.)			
6. POLLUTION CONTROL			
Local regulation in force (If Any)			
7. TUGS			
Number available / Tug type			
Maximum HP / Bollard pull			

7. TUGS (Continued)	
Requesting authority	
Availability timing / Communication	
Hiring charges	
8. BERTHING AND WHARVES	
Type & Number of berths available	
Length	
Depth alongside	
Facilities available	
Procedure for requesting berth & hiring charges	
9. CARGO HANDLING	
Containers	
Lighters & Ro-Ro etc.	
10. CRANES	
Brief details of Max. lifting capacity, Height of boom at wharf level and Outreach	
Container handling facilities	
11. BRIDGES	
Vertical clearance	
12. REPAIRS	
Hull machinery and underwater	
Ship and Boat yards	
Docking or Slipway facilities (Size/ Dimensions of vessels handled)	
Hards and Ramps	
Divers / Diving assistance	
13. SERVICES	
Radio / FAX / Telephone / Internet etc.	
Medical	
Quarantine	
Consul	
Ship chandlery and Stevedores	
Compass adjustment	
Tank cleaning	
Hull painting	
Police / Ambulance / Firefighting (Fixed and Mobile facilities)	
Nav. Warning and Weather bulletin	
Garbage disposal / Waste oil disposal	
Helicopter landing facilities	

14. RESCUE & DISTRESS	
Salvage, Lifeboat, Life guards, etc	
15. SUPPLIES	
Fuel (Type, Quantities & Method of delivery)	
Fresh water (Method of delivery and Rate of supply)	
Provisions	
Chart agents	
16. COMMUNICATIONS	
Road, Rail and Air services available	
Nearest airport or airfield	
Port Radio and Information Service (Frequencies and Operating Hours)	
17. PORT AUTHORITY	
Designation, Address, Telephone, E-mail Address and Website	
18. SECURITY	
Security of ports / International Ship and Port Facility Security (ISPS) compliance	
Custom and Immigration Regulations in force	
19. SMALL CRAFT FACILITIES	
Information and facilities for small craft, yachts visiting the port	
Yacht clubs, berths etc	
20. SHORT LEAVE	
21. CLUBS RECREATION	
Information Kiosk (Location)	
Foreign Exchange firms / Banks (Within / Near Port Area)	
Places of interest near port	
22. VIEWS	
Photographs(Duly annotated) of the approaches, leading marks, the entrance to the harbour etc.	
23. ADDITIONAL DETAILS	
Any other information considered to be useful for the mariners	
SIGNATURE OF THE OBSERVER / REPORTER / MASTER	



FOR 24 X 7 SAR ASSISTANCE IN INDIAN SRR

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