

INDIAN NOTICES TO MARINERS



EDITION NO. 23 DATED 01 DEC 2019

(CONTAINS NOTICES 245 TO 251)

REACH US 24 x 7



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CONTENTS

<u>Section No.</u>	<u>Title</u>
I	List of Charts Affected
II	Permanent Notices
III	Temporary and Preliminary Notices
IV	Marine Information
V	NAVAREA VIII Warnings in force
VI	Corrections to Sailing Directions
VII	Corrections to List of Lights
VIII	Corrections to List of Radio Signals
IX	Reporting of Navigational Dangers

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

FEEDBACK: msis-inho@navy.gov.in



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**

WARNING AGAINST USE OF COUNTERFEIT PRODUCTS

All mariners are cautioned against the use of counterfeit copies of IN Charts and publications. Navigational Charts produced after 31 Oct 14 carry NHO crest as watermark on the reverse with backslip. Chart Agent's stamp is mandatory on all Charts.

Counterfeit products may have errors resulting in potential risks. The same are not approved by inspecting agencies and do not satisfy the carriage requirements of SOLAS chapter V.

Mariners are strongly advised not to use or encourage the use of counterfeit charts and publications. Failure to comply with the warning may invite legal action.

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. SI 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 over loading 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 some 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 Electronic Navigational Chart that is available for mariners in the market is as follows:-

<i>ENC Cell Name</i>	<i>Chart No.</i>	<i>Title</i>	<i>Issue Date</i>
IN3304CA	304	APPROACHES TO CHANDRABHAGA	26-11-2019

2. The forthcoming Indian Charts are as follows:-

<i>Chart No</i>	<i>Title</i>	<i>Scale</i>	<i>Remarks</i>
22	MUMBAI TO CAPE COMORIN	15,00,000	New Edition
32	KOCHI (COCHIN) TO VISHAKHAPATNAM	15,00,000	New Edition
210	UMARGAM TO SATPATI	1,50,000	New Edition
256	MURUD - JANJIRA HR TO MALVAN	3,00,000	New Edition
263	CAPE COMORIN TO COLOMBO	3,00,000	New Edition
273	KADMAT ISLAND TO IHAVANDIFFULU ATOLL	5,00,000	New Edition
291	GWADAR TO DWARKA	7,50,000	New Edition
292	DWARKA TO MUMBAI	7,50,000	New Edition
293	MUMBAI TO NEW MANGALORE	7,50,000	New Edition
471	KATCHALL ISLAND TO SUMATERA	7,50,000	New Edition
472	NICOBAR ISLANDS	5,00,000	New Edition
4152	DUGONG CREEK	25,000	New Chart

3. The new edition Indian Publications that are available for mariners in the market are as follows:-

<i>Title of Publication</i>	<i>Edition</i>
INDIAN LIST OF RADIO SIGNALS VOLUME – 1 (INP – 31 (1))	2019
INDIAN LIST OF RADIO SIGNALS VOLUME – 2 (INP – 31 (2))	2019

Availability of ENCs

The complete folios of Official Indian ENCs are distributed worldwide through JEPPESEN MARINE (formerly C-MAP), UKHO and Norwegian Hydrographic Service. UKHO distributes Indian ENCs 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 Web site: www.hydro.gov.uk	C-MAP Norway AS Nyaskaiveien 2, 4379 Egersund, Norway Ph: +47 51 464700, +91 2262233326 Mob: +91 9820238542 Fax: +47 51 464701, +91 2267939504 Email: enc@c-map.com , info@c-map.co.no Website: www.c-map.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	M/s IIC Technologies Limited B-2-350/5/B-22, Road No. 3 Banjara Hills Hyderabad - 500 034 Telangana Tel:+91 4039144444 Fax: +91 4039144455 Email: somnath.marthi@iictechnologies.com Web: www.iictechnologies.com

SECTION – I

The list of charts affected by the Notices 245 to 251 contained in this edition is as follows:-

CHART NUMBER	FOLIO NO.	NOTICE NO.
21	2	245, 250(T)
22 (INT 752)	3	245, 250(T)
31 (INT 756)	5	248, 251(T)
32 (INT 754)	5	251(T)
33 (INT 755)	5	251(T)
41 (INT 757)	6	248, 249, 251(T)
214	3	250(T)
255 (INT 7334)	3	245
257 (INT 7343)	4	250(T)
268 (INT 7353)	4	250(T)
273	4	250(T)
292 (INT 7021)	2	245, 250(T)
293 (INT 7022)	3	245, 250(T)
313	5	251(T)
356 (INT 7400)	5	251(T)
357 (INT 7397)	5	251(T)
391	5	251(T)
404 (INT 7439)	6	251(T)
405 (INT 7440)	6	251(T)
473 (INT 7031)	6	251(T)
2020	3	250(T)
2022 (INT 7345)	3	250(T)
2047	4	246, 250(T)
2078 (INT 7346)	3	250(T)
3001 (INT 7402)	5	251(T)
3004 (INT 7403)	5	251(T)
3012 (INT 7411)	5	247
4115	6	251(T)
7703 (INT 703)	1	250(T)
7705 (INT 705)	1	250(T)

SECTION – II**PERMANENT NOTICES*****245 (23/19) INDIA – WEST COAST – Approaches to Mumbai – Wreck.**


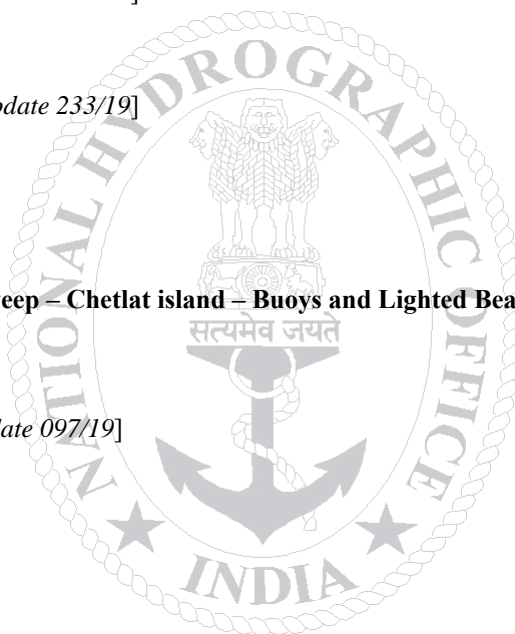
Source: MRCC, Mumbai.

Chart 21 [previous update 232/19]Insert  PA 18° 40'.00N., 70° 58'.00E.**Chart 22 (INT 752)** [previous update 241/19]Insert  PA 18° 40'.00N., 70° 58'.00E..**Chart 292 (INT 7021)** [previous update 239/19]Insert  PA 18° 40'.00N., 70° 58'.00E..**Chart 293 (INT 7022)** [previous update 221/19]Insert  PA 18° 40'.00N., 70° 58'.00E.**Chart 255 (INT 7334)** [previous update 233/19]Insert  PA 18° 40'.00N., 70° 58'.00E.***246 (23/19) INDIA – Lakshadweep – Chetlat island – Buoys and Lighted Beacons.**

Source: NHO, Dehradun.

Chart 2047 (Plan C) [previous update 097/19]Insert  11° 41'.66N., 72° 42'.50E.Move  from: 11° 41'.84N., 72° 43'.11E.

to 11° 41'.73N., 72° 43'.10E.

Substitute  Fl.G.5s for  11° 41'.61N., 72° 42'.18E. Fl.R.5s for  11° 41'.64N., 72° 42'.17E.Delete  11° 41'.67N., 72° 42'.33E.

***247 (23/19) INDIA EAST COAST - Visakhapatnam Harbour – Legend.**

Source: Visakhapatnam Port Trust.

Chart 3012 (INT 7411) [previous update 048/18]

Substitute	legend “Maintained depth 21,0m” for “Maintained depth 19,0m”, centered on:	17° 41′.28N., 83° 18′.06E.
	legend “Maintained depth 16,1m” for “Maintained depth 15,0m”, centered on:	17° 41′.27N., 83° 17′.14E.
		17° 41′.56N., 83° 16′.87E.
	legend “Maintained depth 16,1m” for “Maintained depth 14,0m”, centered on:	17° 42′.23N., 83° 16′.93E.
	legend “Maintained depth 16,1m” for “Maintained depth 12,1m”, centered on:	17° 42′.57N., 83° 16′.95E.

***248 (23/19) BAY OF BENGAL AND ANDAMAN SEA – Andaman Sea – Obstruction and Wreck.**

Source: Myanmar Notice 47/19.

Chart 31 (INT 756) [previous update 242/19]

Insert	 21 <i>Obstn (Rep)</i>	15° 32′.30N., 94° 02′.08E.
Delete	 PA	15° 32′.32N., 94° 02′.13E.


Chart 41 (INT 757) [previous update 229/19]

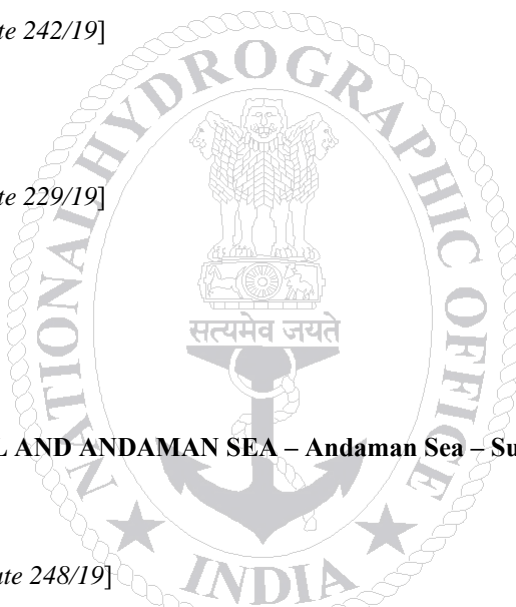
Insert	 21 <i>Obstn (Rep)</i>	15° 32′.30N., 94° 02′.08E.
Delete	 PA	15° 32′.32N., 94° 02′.13E.

***249 (23/19) BAY OF BENGAL AND ANDAMAN SEA – Andaman Sea – Submarine Pipeline and Legend.**

Source: BA Notice 5851/19.

Chart 41 (INT 757) [previous update 248/19]

Insert	submarine pipeline,  , joining:	06° 20′.20N., 100° 09′.13E.
		06° 18′.91N., 99° 56′.72E.
	legend, “Water”, centered on:	06° 18′.00N., 100° 02′.00E.



SECTION – III**TEMPORARY AND PRELIMINARY NOTICES*****250 (T) (23/19) INDIA – WEST COAST – Arabian Sea – Data Buoys and Tsunami Buoy.**

Source: NIOT, Chennai.

1. Following yellow colour data buoys characteristics FL(4)15s4M, 3m diameter and 3.5m height mast with radar reflector & mast carrying sensor laid in following positions:-

Buoy No./Name	Position	Charts affected
AD06/OB	18° 29'·70N., 67° 27'·00E.	21, 292 (INT 7021)
AD07/OB	14° 56'·13N., 68° 59'·07E.	7705 (INT 705)
AD08/OB	12° 04'·08N., 68° 37'·97E.	7703 (INT 703), 7705 (INT 705)
AD09/OB	08° 10'·98N., 73° 17'·90E.	22 (INT 752), 273
AD10/OB	10° 19'·30N., 72° 35'·23E.	22 (INT 752), 273, 268 (INT 7353)
CALVAL/MB	10° 36'·85N., 72° 17'·45E.	22 (INT 752), 273, 268 (INT 7353)
CB02/CB	10° 52'·43N., 72° 12'·53E.	22 (INT 752), 268 (INT 7353), 273, 2047
CB04/CB	15° 24'·30N., 73° 45'·12E.	22 (INT 752), 293 (INT 7022), 257 (INT 7343), 214, 2022 (INT 7345), 2020, 2078 (INT 7346)
TB12/TB	19° 53'·72N., 66° 59'·87E	21, 292 (INT 7021)
TB12A/TB	18° 38'·17N., 67° 10'·18E	21, 292 (INT 7021)
STB02/TB	20° 48'·00N., 65° 25'·00E	21

2. All vessels operating in vicinity are to maintain a clearance of 01 NM off the moored buoys.

3. All positions are in WGS 84 datum.

Former INTM 209(T)/19 is cancelled.

***251 (T) (23/19) INDIA – EAST COAST – Bay of Bengal – Andaman Sea – Data Buoys and Tsunami Buoys.**

Source: NIOT, Chennai.

1. Following yellow colour data buoys characteristics FL(4)15s4M, 3m diameter and 3.5m height mast with radar reflector & mast carrying sensor laid in following positions:-

Buoy No./Name	Position	Chart Affected
BD08/OB	17° 49'·48N., 89° 14'·15E	31(INT 756)
BD10/OB	16° 21'·70N., 87° 59'·42E	31(INT 756)
BD11/OB	13° 31'·50N., 84° 10'·00E	32 (INT 754), 33 (INT 755), 391
BD13/OB	13° 59'·40N., 86° 59'·82E	33 (INT 755)
BD14/OB	06° 33'·93N., 88° 21'·30E	33 (INT 755)
CB01/CB	11° 35'·33N., 92° 35'·77E	33 (INT 755), 41 (INT 757), 473 (INT 7031), 404 (INT 7439), 405 (INT 7440), 4115
CB06/CB	13° 06'·05N., 80° 19'·02E	32 (INT 754), 33 (INT 755), 356 (INT 7400), 357 (INT 7397), 391, 313, 3001 (INT 7402), 3004(INT 7403)
WHOI Buoy	17° 48'·23N., 89° 30'·28E	31(INT 756)
TB09/TB	17° 03'·28N., 90° 00'·22E	31(INT 756)
TB05/TB	10° 15'·42N., 88° 30'·60E	33 (INT 755)
STB01/TB	06° 15'·00N., 88° 48'·00E	33 (INT 755)

2. All vessels operating in vicinity are to maintain a clearance of 01 NM off the moored buoys.

3. All positions are in WGS 84 datum.

Former INTM 230(T)/19 is cancelled.

SECTION – IV

MARINE INFORMATION

1. NAVTEX TRANSMISSION

Status of MSI Promulgation by NAVTEX Stations is as follows:-

Mauritius (Cassis) - Operational

Seychelles (Mahe) - Operational

Following new Navtex stations along the Indian coast have commenced operations:-

INTERNATIONAL NATIONAL NAVTEX FREQUENCY - 518 kHz								
Sl.	Station Name	B1	Broad Cast Timings in UTC					
(a)	Veraval	H	0110	0510	0910	1310	1710	2110
(b)	Vengurla Point	J	0130	0530	0930	1330	1730	2130
(c)	Muttam Point	L	0150	0550	0950	1350	1750	2150
(d)	Porto Novo	O	0220	0620	1020	1420	1820	2220
(e)	Vakalpudi	Q	0240	0640	1040	1440	1840	2240
(f)	Balasore	S	0300	0700	1100	1500	1900	2300
(g)	Keating Point	V	0330	0730	1130	1530	1930	2330

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 crews 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 icgmrec_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.

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.

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 07 of 2018(01stApril 2018).

(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 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) 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-Shevaharbour irrespective of size.

5. **GAGAN SYSTEM COMMISSIONED FOR OPERATIONS**

The GAGAN System is now commissioned for safety of life, civil aviation, and en- route operations in addition to all other non-aviation applications. The GAGAN signal is being broadcasted through GSAT-8 and GSAT-10 with PRN127& 128 respectively.

All the GPS users are requested to enable SBAS functionality in their receivers, configure it to receive PRN-127& 128 and avail the benefits of GAGAN in terms of increased accuracy and reliability. There may be occasional signal outages due to system up-gradation activities.

6. **USAGE OF THURAYA/ IRIDIUM AND SATELLITE PHONE**

The use of Thuraya, Iridium and other such satellite phone is banned in India under Sec 6 of Indian Wireless Act and Sec 20 of Indian Telegraph Act. It is intimated to all shipping companies/ shipping agents that use of Thuraya/ Iridium and other such satellite phones are banned in Indian waters and seafarers should not use the same.

Satellite phones can be used only after no objections certificate issued by department of telecommunication (DOT) on a case to case basis. The shipping agents should mandatorily intimate the details of person carrying Thuraya and the particulars of Thuraya, Iridium and other such sets in pre arrival notification on security (PANS).

The unauthorized holders of Thuraya/ Iridium and other such Satellite phones can be prosecuted under Sec 6 of Indian Wireless Act and Sec 20 of Indian Telegraph Act.

7. **CAUTIONARY NOTE**

There is a finite amount of lag between publication of large and small scale Indian Nautical Charts. To avoid uncertainty the mariners are advised to use large scale charts for coastal navigation wherever applicable and available. In addition, mariners are to refer large scale charts in conjunction with small scale charts in areas where both overlap during both planning and conduct of passage.

8. **ADVISORY FOR ALL VESSELS NAVIGATING INDIAN WATERS**

(a) All vessels navigating in Indian waters are cautioned to keep a sharp look-out for fishing vessels and small crafts, as there have been several incidents of collisions with such vessels in the past resulting in loss of innocent lives as well as damage to property.

(b) It is further cautioned that all vessels need to exercise extreme care while navigating during hours of darkness as such vessels are generally of primitive built (wood/fibre/etc) due to which it may not be detected on ship's radar, especially during adverse weather conditions. Also, such vessels may not be properly lit, or sometimes, only one vessel may be lit among multiple vessels in a cluster.

(c) The general areas of concern on the west coast of India are the areas of convergence and divergence of traffic, mainly between Mangalore to Kanyakumari (Cape Comorin). Further, in these areas, additional caution needs to be exercised and wide berth be given to all such vessels.

(d) All fishing vessels are also cautioned to avoid fishing in areas having high density traffic. All fishing vessels are also required to always maintain proper lookout by sight, hearing and by all available means and comply with all applicable provisions of Collision Regulations.



List of Indian Chart Agents

<p>OSA Books and Periodicals R-246, Greater Kailash –I, New Delhi - 110 048 Tel/Fax: +91-11-26418643, 46557337, Mob: 9971093992 Email: rpani246@gmail.com</p>	<p>M/s VDO Marine Insrtuments Shanghar Building, PO Bag No – 645, 45/271, Corner of Bristow & Naval Road, Willingdon Island, Kochi – 682 003 Tel: +91 484 2667157 Fax: +91 484 2667121 Email: atmain@md4.vsnl.net.in</p>
<p>M/s Global Charts & Nav. Aids Pvt. Limited 1A, Goa Mansion, Ground Floor, 58, Dr. SunderlalBahl Path (Goa Street), Fort, Mumbai - 400 001 Tel: 91-22-22626318, 22626380 Fax: 91-22-22621488 Email: sales@globalcharts.in Web: www.globalcharts.com.sg</p>	<p>SMS Marine Private Ltd 505, Raheja Arcade, Sector 11, CBD Belapur, Navi Mumbai – 400 614 Tel: +91-22-62233326, Fax: 022-67939504 Mobile: +91 9820 238 542 Email: info@c-map.co.in , raj.chakravorty@smsmap.com Web: www.smsmaps.co.in</p>
<p>M/s C & C Marine Combine 25 Bank Street, 1st Floor, Fort Mumbai - 400 023 Tel: 91-22- 22660017/0018/0525/1937 Ext: 32 Tel: 91-22-22672143 Fax: 91-22-22670896 Email: vijay@ccmarine.in, sales@ccmarine.in</p>	<p>M/s Global Marine Infratech Pvt. Ltd. SikshaSandan, Ground Floor, Plot No. ND7, VIP Area, IRC Village, Bhubaneswar – 751015 Tel: +91-674-2550599, Fax: +91-674-2551899 Cell:- +91-9337477799, 7077702499 Email: tusarkantha@gmiindia.in Web: www.gmiindia.in</p>
<p>M/s JM Maritime Services 24/24C Kavarana Building, Ground Floor, WadiBunder, 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</p>	<p>L. R. Marine Services 301, 3rd Floor, Biryra House, 265, PerinNariman Street, Fort, Mumbai - 400 001. Tel: +91-22-2269 1535, Fax: +91-22-66359148 Cell No: +91 8108926880/ +91 98214 60258 Email: lrcharts@gmail.com, lrmarine@live.com</p>
<p>M/s Lift o Marine Allen’s Mansion, C6, Nungi Station Road, Bata Nagar, Kolkata – 700 140 Tel: +91 9836972027 Fax: 033 24924283 Email: sankar@liftomarine.org, liftomarine77@gmail.com Web: www.liftomarine.org</p>	<p>IIC Technologies Limited 8-2-350/5/B-22, Road No. 3, Banjara Hills, Hyderabad – 500 034, Telangana Tel: +91 40 39144444 Fax: +91 40 39144455 Email: somnath.marthi@iictechnologies.com sanjeev.sharma@iictechnologies.com Web: www.iictechnologies.com</p>
<p>M/s Zenith Surveys (I) Pvt. Ltd. Lakhani’sPlam View, First Floor, Office No. 889, Sector 48, Nerul, Navi Mumbai – 400 706 Tel/ Fax: +91-22- 27708011 Email: zenithsurveys703@gmail.com nyvmane@yahoo.com Web: www.zenithsurvey.com</p>	

SECTION – V**NAVAREA – VIII WARNINGS IN FORCE**

1. For details of NAVAREA limits and organisation/ coordination, please refer to Notice No. 12 of the Special edition of Indian Notice to Mariners – 2016.

2. NAVAREA VIII Warnings in force as on 30 Nov 19:-

2019 SERIES – 024 199 287 289 369 392 479 549 591 621 707 723 736 742 772 779 783 784 785 791 797 798 809 810 812 816 817 818 824 825 837 841 843 860 862 865 866 867 868 870 875 877 878 879 880 881 882 883 884 885 886
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3. NAVAREA VIII Warnings issued during the period from 16 Nov 19 to 30 Nov 19 (both dates inclusive) are as tabulated below:-

845. India West Coast – off Daman. Charts IN 21 209 210 254 292 INT 7331. Firing by CG Aircraft scheduled on 18, 19 Nov 19 from 0330 to 1130 UTC in danger area bounded within 20-10N to 20-40N and 072-20E to 072-40E. Wide berth from area advised.

2. Cancel this MSG 191230 UTC Nov 19.

846. Cancel NAVAREA VIII MSG 758/18, 774/19, 776, 792, 833 and this MSG. INTM 238/19, 239, 240, 241, 243(T) refers.

847. India East Coast – off Puri. Charts IN 31 352 INT 756. 19 containers and 02 buoys reported adrift in area within radial 110-175 Puri LT 40-140 NM and 01 pontoon reported adrift 175 Puri LT 115 NM on 16 Nov 19. Wide berth advised.

2. Cancel this MSG 191000 UTC Nov 19.

848. India East Coast – off Paradip. Charts IN 31 351 INT 756. Firing by naval ships scheduled from 221330 to 221530 UTC and 231030 to 231230 UTC Nov 19 in danger area bounded within 20-00.03N to 20-35.03N and 087-59.51E to 088-59.50E. Wide berth from area advised.

2. Cancel this MSG 231330 UTC Nov 19.

849. Bay of Bengal and Indian Ocean. Charts IN 33 357 391 INT 73. Rocket launch scheduled from 25 to 27 Nov 19 from 0330 to 0530 UTC.

2. Danger Zone as follows:-

Zone -1: Circle of 10 NM around 13-43.2N 080-13.8E

Zone -2: 13-10N 080-25E, 13-25N 080-40E, 12-45N 081-15E, 12-30N 081-00E

Zone -3: 11-45N 081-20E, 12-10N 081-50E, 10-45N 082-55E, 10-20N 082-25E

Zone -4: 10-15N 082-30E, 10-40N 083-00E, 09-50N 083-35E, 09-25N 083-05E

Zone -5: 08-40N 083-20E, 08-40N 083-55E, 07-15N 083-55E, 07-15N 083-20E

Zone -6: 03-00S 081-00E, 03-20S 082-20E, 07-05S 081-25E, 06-45S 080-05E

Zone -7: 29-55S 073-45E, 30-35S 076-20E, 40-05S 073-50E, 39-25S 071-15E

3. Wide berth from area advised.

4. Cancel this MSG 270630 UTC Nov 19.

850. India West Coast. Charts IN 251 253 254 255 256 292 INT 7021. Rig list:-

Aban III	18-01.06N 072-22.72E
Aban ice	19-27.64N 071-03.10E
Discovery1	19-12.51N 072-02.24E
FG Mclintok	18-55.88N 072-18.31E
Great Drill Chaaya	19-01.91N 072-07.29E New
Great Drill Chaaru	18-39.51N 072-12.85E
Great Drill Chetna	19-42.62N 070-51.07E
Great Drill Chitra	19-13.34N 072-10.86E
Harvey H Ward	18-17.26N 072-19.49E
Jindal Explorer	19-27.59N 071-24.98E
Jindal Star	18-55.59N 072-02.48E
JT Angel	18-33.76N 072-17.63E
Ron Tappmeyer	18-08.49N 072-22.08E
Sagar Bhushan	19-23.98N 070-58.01E New
Sagar Gaurav	19-07.50N 071-25.98E
Sagar Jyoti	18-18.09N 072-14.60E
Sagar Kiran	19-17.29N 071-01.93E
Sagar Ratna	19-07.35N 072-06.45E
Sagar Shakti	18-57.98N 071-28.47E
Sagar Uday	19-27.30N 070-52.18E

850. Continued.	
Sagar Vijay	19-25.52N 070-54.29E
Sundower7	18-30.07N 072-15.95E
Trident XII	18-36.16N 071-01.65E
Valiant Driller	18-44.08N 072-18.48E
Victory Driller	19-24.61N 071-13.18E
Vivekananda1	19-09.88N 072-05.99E
Vivekananda2	19-10.77N 072-05.56E
2.	Wide berth requested.
3.	Cancel NAVAREA VIII MSG 835/19.
851. India East Coast – off Chennai.	Chart 3001 INT 7402. Pulicat DGPS (13-25N 080-20E) off.
852. Bay of Bengal and Indian Ocean.	Charts IN 33 357 391 INT 73. Rocket launch scheduled on 27 Nov 19 from 0330 to 0530 UTC.
2.	Danger Zone as Follows:- Zone -1: Circle of 10 NM around 13-43.2N 080-13.8E Zone -2: 13-10N 080-25E, 13-25N 080-40E, 12-45N 081-15E, 12-30N 081-00E Zone -3: 11-45N 081-20E, 12-10N 081-50E, 10-45N 082-55E, 10-20N 082-25E Zone -4: 10-15N 082-30E, 10-40N 083-00E, 09-50N 083-35E, 09-25N 083-05E Zone -5: 08-40N 083-20E, 08-40N 083-55E, 07-15N 083-55E, 07-15N 083-20E Zone -6: 03-00S 081-00E, 03-20S 082-20E, 07-05S 081-25E, 06-45S 080-05E Zone -7: 29-55S 073-45E, 30-35S 076-20E, 40-05S 073-50E, 39-25S 071-15E
3.	Wide berth from area advised.
4.	Cancel NAVAREA VIII MSG 849/19 and this MSG 270630 UTC Nov 19.
853. Lakshadweep Sea – off Minicoy I.	Chart IN 273 INT 752. SLFV Dilshantha Puthal reported adrift 07-48N 074-25E at 200830 UTC Nov 19.
2.	Cancel this MSG 230830 UTC Nov 19.
854. India East Coast – off Vishakhapatnam.	Charts IN 31 INT 756. 03 white containers and 01 partially submerged white structure of 50 X 10 feet reported adrift 17-27.4N 085-53.1E, 17-27.05N 085-48.24E at 200605 UTC Nov 19. Wide berth advised.
2.	Cancel this MSG 230605 UTC Nov 19.
855. India West Coast.	Charts IN 251 253 254 255 256 292 INT 7021. Rig List:-
Aban III	18-01.06N 072-22.72E
Aban Ice	19-27.64N 071-03.10E
Discovery1	19-12.51N 072-02.24E
FG Mclintok	18-55.88N 072-18.31E
Great Drill Chaaya	19-01.91N 072-07.29E
Great Drill Chaaru	18-39.51N 072-12.85E
Great Drill Chetna	19-42.62N 070-51.07E
Great Drill Chitra	19-13.34N 072-10.86E
Harvey H Ward	18-17.26N 072-19.49E
Jindal Explorer	19-27.59N 071-24.98E
Jindal Star	18-55.59N 072-02.48E
JT Angel	18-33.76N 072-17.63E
Ron Tappmeyer	18-08.49N 072-22.08E
Sagar Bhushan	19-23.98N 070-58.01E
Sagar Gaurav	19-07.50N 071-25.98E
Sagar Jyoti	18-18.09N 072-14.60E
Sagar Kiran	19-17.29N 071-01.93E
Sagar Ratna	19-07.35N 072-06.45E
Sagar Shakti	18-57.98N 071-28.47E
Sagar Uday	19-27.30N 070-52.18E
Sagar Vijay	19-25.52N 070-54.29E
Sundower5	19-22.76N 071-16.31E New
Sundower7	18-34.11N 072-13.45E New
Trident XII	18-36.16N 071-01.65E
Valiant Driller	18-44.08N 072-18.48E
Victory Driller	19-24.61N 071-13.18E
Vivekananda1	19-09.88N 072-05.99E
Vivekananda2	19-10.77N 072-05.56E
2.	Wide berth requested.
3.	Cancel NAVAREA VIII MSG 850/19.
856. Cancel NAVAREA VIII MSG 751/19, 851 and this MSG.	
857. India West Coast - off Mormugao.	Charts IN 22 212 256 272 292 293 INT 71. Surface and Subsurface firing by

<p>857. Continued. Naval Ships scheduled from 260130 to 291330 UTC Nov 19 in danger area bounded by 13-39N 071-29E, 17-07N 072-40E, 18-28N 069-43.4E, 15-50N 068-05.3E. Wide berth from area advised. 2. Cancel this MSG 291430 UTC Nov 19.</p>
<p>858. India East Coast – off Paradip. Charts IN 31 351 352 353 INT 756. Experimental Flight trial scheduled on 26, 27 Nov 19 from 0345 to 0645 UTC in danger zone bounded by 18-20.74N 085-39.41E, 18-49.46N 089-10.25E, 20-27.59N 088-34.69E, 18-43.40N 085-30.74E. Wide berth from area advised. 2. Cancel this MSG 270745 UTC Nov 19.</p>
<p>859. India East Coast- Chennai. Charts IN 313 356 3001 INT 7400. Firing by Naval Coast Battery scheduled on 26 Nov 19 from 0830 to 0930 UTC. 2. Danger sector extending upto 11 NM between bearing 045 and 075 from 13-07.02N 080-18.01E. Wide berth from area advised. 3. Cancel this MSG 261030 UTC Nov 19.</p>
<p>860. India East Coast – off Gopalpur. Charts IN 31 352 353 INT 7413. Army air defence firing and BPTA flight scheduled on 27, 28, 29, 30 Nov 19 from 0130 to 0830 and 0930 to 1430 UTC in danger area bounded by (A) 19-14.6N 084-53.7E (B) 19-07.39N 085-35.94E (C) 18-33.61N 084-53.74E and arc of 40 NM radius joining point B And C. Wide berth from area advised. 2. Cancel this MSG 301530 UTC Nov 19.</p>
<p>861. India West Coast – off Alappuzha. Charts IN 22 32 221 259 260 INT 7356. Dropping of live depth charges scheduled on 27 Nov 19 from 0400 to 1100 UTC. Danger circle of 05 NM around 09-19.58N 075-46.84E. Wide berth from area advised. 2. Cancel this MSG 271200 UTC Nov 19.</p>
<p>862. Andaman Sea – off Irrawaddy. CHARTS IN 31 41 473 INT 756. MV PTSC Researcher progressing geophysical survey in areas (A) 14-11.98N 094-29.52E, 14-10.54N 094-27.87E, 14-07.32N 094-30.85E, 14-08.76N 094-32.51E (B) 14-05.7N 094-37.45E, 14-07.21N 094-39.04E, 14-05.66N 094-40.6E, 14-04.15N 094-39E. Wide berth of 5 NM requested. 2. Cancel this MSG 172359 UTC Dec 19.</p>
<p>863. NAVAREA VIII warnings in force as on 22 Nov 2019 2019 Series – 024 199 287 289 369 392 479 549 591 621 707 723 736 741 742 751 772 779 783 784 785 791 793 795 797 798 809 810 812 816 817 818 824 825 834 837 841 843 848 852 853 854 855 857 858 859 860 861 862 (A) NAVAREA VIII warnings less than 42 days promulgated via Safetynet. (B) Text of NAVAREA VIII warnings inforce including those which no longer broadcast available in www.hydrobharat.gov.in 2. Cancel this MSG 290930 UTC Nov 19.</p>
<p>864. India East Coast – off Vishakhapatnam. Chart IN 31 INT 756. One orange capsized boat 16-34.15N 085-31.88E, two containers 16-29.43N 086-06.36E, one container 16-47.73N 086-05.17E reported adrift at 230800 Nov 19. Wide berth advised. 2. Cancel this MSG 260800 UTC Nov 19.</p>
<p>865. India East Coast – Off Vishakhapatnam. Charts IN 31 32 308 354 391 3002 3012 INT 7409. Firing scheduled on 29 Nov, 02 Dec 19 from 0530 to 1400 UTC and 04 Dec 19 from 0530 to 1830 UTC in danger area bounded by 17-41.3N 083-17.2E, 17-46.25N 083-25.5E, 17-39.6N 083-29.8E, 17-34.5N 083-21.6E. Wide berth from area advised. 2. Cancel this MSG 041930 UTC Dec 19.</p>
<p>866. Bay of Bengal and Indian Ocean. Charts IN 31 351 353 3017 3038 INT 71. Experimental Flight trial scheduled on 30 Nov and 01 Dec 19 from 1300 to 1600 UTC in danger area bounded by 20-48.34N 087-02.61E, 18-12.34N 086-07.14E, 05-27.77S 087-05.32E, 05-06.07S 091-28.73E, 18-24.14N 088-30.47E, 20-48.74N 087-07.43E. Wide berth from area advised. 2. Cancel this MSG 011700 UTC Dec 19.</p>
<p>867. Andaman Sea – off Irrawaddy. Charts BA 830 INT 757. SV TAN CANG66 progressing drilling in area bounded by 14-39.98N 095-34.28E, 14-40N 096-04.82E, 14-00N 096-04.8E, 14-00N 095-51E, 13-54.22N 095-51E, 13-54.21N 095-44.26E, 13-59.99N 095-44.25E, 13-59.98N 095-34.35E. Wide berth of 2.5 NM requested. 2. Cancel this MSG 012359 UTC Dec 19.</p>
<p>868. Bay of Bengal – off Chittagong. Chart BA90 INT 756. SPM (21-37.64N 091-47.07E) and pipeline installation being progressed in vicinity of 21-40.27N 091-51.52E, 21-42.02N 091-45.82E, 21-46.12N 091-46.16E, 21-50.44N 091-46.52E, 21-54.76N 091-46.87E, 21-59.09N 091-47.23E, 22-03.41N 091-47.59E. Wide berth advised. 2. Cancel this MSG 292359 UTC Nov 19.</p>
<p>869. India West Coast. Charts IN 251 253 254 255 256 292 INT 7021. Rig List:- Aban III 18-01.06N 072-22.72E Aban Ice 19-27.64N 071-03.10E Discovery1 19-12.51N 072-02.24E FG Mclintok 18-55.88N 072-18.31E Great Drill Chaaya 19-01.91N 072-07.29E Great Drill Chaaru 18-39.51N 072-12.85E Great Drill Chetna 19-42.62N 070-51.07E</p>

869. Continued.	
Great Drill Chitra	19-28.15N 071-14.64E New
Harvey H Ward	18-17.26N 072-19.49E
Jindal Explorer	19-27.59N 071-24.98E
Jindal Star	18-55.59N 072-02.48E
JT Angel	18-33.76N 072-17.63E
Ron Tappmeyer	18-08.49N 072-22.08E
Sagar Bhushan	19-23.98N 070-58.01E
Sagar Gaurav	19-07.50N 071-25.98E
Sagar Jyoti	18-18.09N 072-14.60E
Sagar Kiran	19-17.29N 071-01.93E
Sagar Ratna	19-07.35N 072-06.45E
Sagar Shakti	18-57.98N 071-28.47E
Sagar Uday	19-27.30N 070-52.18E
Sagar Vijay	19-25.52N 070-54.29E
Sundower5	19-22.76N 071-16.31E
Sundower7	18-34.11N 072-13.45E
Trident XII	18-36.16N 071-01.65E
Valiant Driller	18-44.08N 072-18.48E
Victory Driller	19-24.61N 071-13.18E
Vivekananda1	19-09.88N 072-05.99E
Vivekananda2	19-10.77N 072-05.56E
2.	Wide berth requested.
3.	Cancel NAVAREA VIII MSG 855/19.
870. India East Coast – off Visakhapatnam.	Chart IN 308 INT 7409. INS Sandhayak progressing hydrographic survey in area bounded by 17-28.05N 083-01.5E, 17-21.13N 083-09.13E, 17-44.83N 083-35.05E, 17-45.2N 083-22.53E. Wide berth from ship and survey boats requested.
2.	Cancel this MSG 301830 UTC Nov 19.
871. Lakshadweep Sea – off Androth I.	Chart IN 268 INT 7353. Capsized white boat reported adrift 10-57.7N 074-03.7E at 260530 UTC Nov 19.
2.	Cancel this MSG 290530 UTC Nov 19.
872. India East Coast.	Charts IN 354 355 INT 756. Rig List:-
Aban II	16-27.74N 082-10.63E
Deep Driller8	16-40.09N 082-25.43E
DDKG1	16-11.20N 082-35.87E
Essar Wildcat	16-33.17N 082-26.49E
SSV Louisiana	16-18.80N 082-20.40E New
Olinda Star	16-25.03N 082-24.29E
DSR Platinum Explorer	16-15.39N 082-26.00E
2.	Wide Berth Requested.
3.	Cancel NAVAREA VIII MSG 834/19.
873. Cancel NAVAREA VIII MSG 741/19, 858 and this MSG.	
874. Bay of Bengal - off Bangladesh.	Chart IN 31 351 INT 756. Surface and Anti Air firing scheduled on 28 Nov 19 from 1500 to 1630 UTC in danger area bounded by 21-18N 089-31E, 21-18N 089-50E, 21-04N 089-54E, 21-04N 089-34E. Wide berth from area advised.
2.	Cancel this MSG 281730 UTC Nov 19.
875. India West Coast – Mumbai Port.	Chart IN 2016 INT 7336. INS Investigator progressing hydrographic survey in area bounded within 18-54.7N to 19-00N and 072-49.85E to 072-53.5E. Wide berth from Ship and Survey boats requested.
2.	Cancel this MSG 201830 UTC Dec 19.
876. India West Coast.	Charts IN 251 253 254 255 256 292 INT 7021. Rig List:-
Aban III	18-01.06N 072-22.72E
Aban Ice	19-27.64N 071-03.10E
Discovery1	19-12.51N 072-02.24E
FG Mclintok	18-55.88N 072-18.31E
Great Drill Chaaya	19-01.91N 072-07.29E
Great Drill Chaaru	18-39.51N 072-12.85E
Great Drill Chetna	19-42.62N 070-51.07E
Great Drill Chitra	19-28.15N 071-14.64E
Harvey H Ward	18-17.26N 072-19.49E
Jindal Explorer	19-27.59N 071-24.98E
Jindal Star	18-55.59N 072-02.48E
JT Angel	18-33.76N 072-17.63E

876. Continued.	
Ron Tappmeyer	18-08.49N 072-22.08E
Sagar Bhushan	19-23.98N 070-58.01E
Sagar Gaurav	19-07.50N 071-25.98E
Sagar Jyoti	18-18.09N 072-14.60E
Sagar Kiran	19-10.54N 071-00.71E New
Sagar Ratna	19-07.35N 072-06.45E
Sagar Shakti	18-57.98N 071-28.47E
Sagar Uday	19-27.30N 070-52.18E
Sagar Vijay	19-25.52N 070-54.29E
Sundower5	19-22.76N 071-16.31E
Sundower7	18-34.11N 072-13.45E
Trident XII	18-36.16N 071-01.65E
Valiant Driller	18-44.08N 072-18.48E
Victory Driller	19-24.61N 071-13.18E
Vivekananda1	19-09.88N 072-05.99E
Vivekananda2	19-10.77N 072-05.56E
2.	Wide berth requested.
3.	Cancel NAVAREA VIII MSG 869/19.
877. India East Coast. Charts IN 354 355 INT 756. Rig List:-	
Aban II	16-27.74N 082-10.63E
Deep Driller8	16-40.09N 082-25.43E
DDKG1	16-11.20N 082-35.87E
Essar Wildcat	16-33.17N 082-26.49E
SSV Louisiana	16-18.80N 082-20.40E
Olinda Star	16-25.03N 082-24.29E
Platinum Explorer	16-07.90N 082-17.20E New
2.	Wide berth requested.
3.	Cancel NAVAREA VIII MSG 872/19.
878. Bay of Bengal – off Bangladesh. Chart IN 31 INT 756. Firing by Naval Ships scheduled daily from 01 to 31 Dec 19 except on Fridays and Saturdays from 0001 to 1600 UTC in danger areas bounded by (A) 21-20.83N 090-34E, 21-41N 091-14E, 21-20.83N 091-28E, 21-00N 090-47.83E (B) 20-07N 090-52E, 20-22N 091-06E, 20-00N 091-36E, 19-44N 091-21E (C) 20-22N 091-06E, 20-46.5N 091-31E, 20-24N 091-59E, 20-00N 091-36E (D) 21-18N 089-31E, 21-18N 089-50E, 21-04N 089-54E, 21-04N 089-34E (E) 20-58N 089-34E, 20-58N 089-54E, 20-34N 089-54E, 20-34N 089-34E. Wide berth from area advised.	
2.	Cancel this MSG 311700 UTC Dec 19.
879. India East Coast – off Nagappattinam. Chart IN 357 INT 7397. RV Samudra Ratnakar progressing survey in area bounded by 10-35.52N 080-15.84E, 10-46.14N 080-35.04E, 10-28.56N 080-45.30E, 10-17.34N 080-26.58E. Wide berth requested.	
2.	Cancel this MSG 141830 UTC Dec 19.
880. India East Coast – off Balasore. Charts IN 31 351 352 INT 756. Experimental Flight trial scheduled on 03, 04 Dec 19 from 1300 to 1600 UTC in danger area bounded by 21-22.25N 086-55.73E, 21-08.94N 086-52.65E, 20-47.63N 087-13.44E, 19-43.67N 087-44.76E, 20-05.06N 088-17.51E, 20-55.16N 087-24.94E, 21-20.84N 087-10.8E, 21-22.68N 086-56.39E. Wide berth from area advised.	
2.	Cancel this MSG 041700 UTC Dec 19.
881. India East Coast – off Chennai. Charts IN 32 356 357 391 INT 7400. Firing by CG Aircraft scheduled on 03, 04, 05 Dec 19 from 0130 to 1130 UTC in danger area bounded within 12-49N TO 12-59N and 080-46E to 081-26E. Wide berth from area advised.	
2.	Cancel this MSG 051230 UTC Dec 19.
882. India East Coast – off Nizampatnam. Charts IN 31 32 355 391 3026 INT 7405. Firing by Air Force scheduled daily from 02 to 13 Dec 19 from 0030 to 1630 UTC.	
2.	Danger sector extending upto 54 NM Within bearing 100 and 210 from 15-50.5N 080-29.5E. Wide berth from area advised.
3.	Cancel this MSG on 131730 UTC Dec 19.
883. North Indian Ocean. Chart INT 71. SLFV Tikiri Yohan Putha3 reported adrift 03-12N 077-08E at 290430 UTC Nov 19.	
2.	Cancel this MSG 020430 UTC Dec 19.
884. India East Coast – off Kakinada. Chart IN 354 INT 7408. OSV Boa Deep C progressing support ops in area bounded by 16-42.2N 082-38.88E, 16-39.86N 082-43.15E, 16-42.76N 082-45.61E, 16-44.2N 082-41.35E. Wide berth requested.	
2.	Cancel this MSG 261830 UTC Dec 19.
885. India West Coast. Charts IN 251 253 254 255 256 292 INT 7021. Rig List:-	
Aban III	18-01.06N 072-22.72E

885. Continued.

Aban Ice	19-27.64N 071-03.10E
Discovery1	19-12.51N 072-02.24E
FG Mclintok	18-55.88N 072-18.31E
Great Drill Chaaya	19-01.91N 072-07.29E
Great Drill Chaaru	18-39.51N 072-12.85E
Great Drill Chetna	19-42.62N 070-51.07E
Great Drill Chitra	19-28.15N 071-14.64E
Harvey H Ward	18-17.26N 072-19.49E
Jindal Explorer	19-27.59N 071-24.98E
Jindal Star	18-55.59N 072-02.48E
JT Angel	19-10.61N 070-57.71E New
RON Tappmeyer	18-08.49N 072-22.08E
Sagar Bhushan	19-23.98N 070-58.01E
Sagar Gaurav	19-07.50N 071-25.98E
Sagar Jyoti	19-54.20N 072-18.03E New
Sagar Kiran	19-10.54N 071-00.71E
Sagar Ratna	19-07.35N 072-06.45E
Sagar Shakti	18-57.98N 071-28.47E
Sagar Uday	19-27.30N 070-52.18E
Sagar Vijay	19-25.52N 070-54.29E
Sundower5	19-22.76N 071-16.31E
Sundower7	18-34.11N 072-13.45E
Trident XII	18-36.16N 071-01.65E
Valiant Driller	18-44.08N 072-18.48E
Victory Driller	19-24.61N 071-13.18E
Vivekananda1	19-09.88N 072-05.99E
Vivekananda2	19-10.77N 072-05.56E

2. Wide berth requested.
3. Cancel Navarea VIII MSG 876/19.

886. NAVAREA VIII Warnings in force as on 29 Nov 2019

2019 Series – 024 199 287 289 369 392 479 549 591 621 707 723 736 742 772 779 783 784
785 791 797 798 809 810 812 816 817 818 824 825 837 841 843 860 862 865 866 867 870 875
877 878 879 880 881 882 883 884 885

- (A) NAVAREA VIII Warnings Less than 42 days promulgated via Safetynet.
- (B) Text of NAVAREA VIII warnings in force including those which no longer broadcast available in www.hydrobharat.gov.in

2. Cancel this MSG 060930 UTC Dec 19.

SECTION – VI
CORRECTIONS TO SAILING DIRECTIONS (PILOTS)

West coast of India Pilot (INP-1)
Chapter - 5 (Page 212)

Article 5.136, delete para 9

Bay of Bengal Pilot (INP-2)
Chapter - 8 (Page 317)

Article 8.157, para 1, line 7, delete and replace by

Island; it is visible between the bearing 054°-194°.

Chapter - 8 (Page 318)

Article 8.157, para 3, insert after line 3

The nature of bottom around the island mainly consists of corals and rocks. Anchorage near the island for vessels larger than 20m in length is not recommended.

SECTION – VIII
CORRECTION TO LIST OF RADIO SIGNALS

INP 31(1), 2014*(Last correction: Edition No. 11 dated 01 June 2019)*

NIL

INP 31(2), 2014*(Last correction: Edition No.12 dated 16 June 2019)*

NIL

NP 31(5), 2017*(Last correction: Edition No. 22 dated 16 Nov 2019)***PAGE 153, Chapter 10, DISTRESS, SEARCH AND RESCUE.***delete and replace by:*

DJIBOUTI			
Djibouti (J2A) maintains a continuous listening watch on VHF Ch 16 for distress calls.			
	Telephone +253	Fax +253	Others
RSC Djibouti (Cospas-Sarsat SPOC)	21340350 21340977	21340723	AFTN HDAMYDYD
DJIBOUTI (J2A)	21351501 21350489 21350498	21355900	Telex +979 5889 E-mail: djiboutiradio@intnet.dj

PAGE 161, Chapter 10, DISTRESS, SEARCH AND RESCUE.*delete and replace by:*

MADAGASCAR			
National SAR Agency: Agence Portuaire Maritime et Fluviale (APMF) Address: P.O. Box 581 Antananarivo (101), Madagascar Tel: +261 20 2253994, 20 2253995 & 20 2425700 Fax: +261 20 2253934			
A network of Coast Radio Stations maintains a continuous listening watch on international distress frequencies.			
	Telephone +261	Fax +261	Others
RCC ANTANANARIVO (Cospas-Sarsat SPOC)	20 2244410	20 2245909	AFTN FMMIYCYX Mobile: +261 32 0574228 Telex: +983 22286 ASEMAD MG Email:jrccmad@moov.mg Website: www.acm.mg

*(Source: BA 48/19)***(23/19)****INP 31(6), 2018***(Last correction: Edition No. 22 dated 16 Nov 2019)*

NIL

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.gov.in, msis-inho@navy.gov.in
Fax No.: +91-135- 2748373
WEB: www.hydrobharat.gov.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 102A 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.

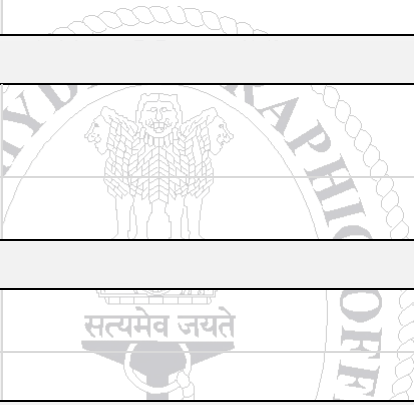

Please Note: - An acknowledgement will be sent by National Hydrographic Office for Hydrographic Notes, on receipt. When a Notice to Mariners is issued, the sender's ship or name is quoted as authority unless the information is also received from other authorities/ foreign Notices to Mariners. Further, 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)	<input type="checkbox"/> Bathymetry	<input type="checkbox"/> Nav. Dangers	<input type="checkbox"/> Nav. aids		
	<input type="checkbox"/> Designated Areas	<input type="checkbox"/> Others			
Geographical Position (See Instructions Overleaf)	Latitude		Longitude		
Position Method	<input type="checkbox"/> DGPS	<input type="checkbox"/> GPS	<input type="checkbox"/> Radar	<input type="checkbox"/> Others	
Datum Used	<input type="checkbox"/> WGS84	<input type="checkbox"/> Everest	<input type="checkbox"/> 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

Email: mrcc-west@indiancoastguard.nic.in

NATION WIDE SAR TELE: 1554 (LAND LINE)

INMARSAT C (IOR) 441907210 CODE: 43 (TOLL FREE)

AFTN: VABBYXYC