



# INDIAN NOTICES TO MARINERS



EDITION NO. 06 DATED 16 MAR 2019

(CONTAINS NOTICES 071 TO 081)

REACH US 24 x 7



incho@navy.gov.in  
msis-incho@navy.gov.in



+91-135-2748373



National Hydrographic Office  
107-A, Rajpur Road  
Dehradun – 248001  
INDIA



Commander (H)  
Maritime Safety Information Services  
+91- 135 - 2746290-117

WWW

[www.hydrobharat.gov.in](http://www.hydrobharat.gov.in)

## 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 inforce
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 1<sup>ST</sup> & 16<sup>TH</sup> OF EVERY MONTH)

**FEEDBACK:** [msis-incho@navy.gov.in](mailto:msis-incho@navy.gov.in)



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



© Govt. of India Copyright

No permission is required to make copies of these Notices. However, such copies are not to be commercially sold.

## 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. 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 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 Charts that are available for mariners in the market are as follows:-

<i>Chart No.</i>	<i>Date of Publication</i>	<i>Title, Limits &amp; Description</i>	<i>Scale</i>	<i>Folio</i>	<i>Price</i>
215	31-01-2019	<b>BETUL TO BELEKERI LIMIT</b> 14° 30'.00N; 72° 59'.00E. 15° 22'.50N; 74° 22'.00E.	1,50,000	3	Rs. 1950.00
2022 (INT 7345)	31-01-2019	<b>APPROACHES TO MORMUGAO LIMIT</b> 15° 16'.20N; 73° 22'.00E. 15° 36'.90N; 73° 55'.00E.	60,000	3	Rs. 1950.00
7701 (INT 701)	15-02-2019	<b>MAPUTO TO MUQDISHO LIMIT</b> 27° 00'.00S; 32° 00'.00E. 05° 28'.70N; 53° 25'.70E.	35,000,00	1	Rs. 1950.00

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

<i>Chart No.</i>	<i>Date of Publication</i>	<i>Title, Limits &amp; Description</i>	<i>Scale</i>	<i>Folio</i>	<i>Price</i>
2020	31-01-2019	<b>MORMUGAO AND PANAJI LIMIT</b> 15° 18'.70N; 73° 42'.00E. 15° 32'.00N; 73° 51'.00E.	25,000	3	Rs. 1950.00
2078 (INT 7346)	31-01-2019	<b>PORT OF MORMUGAO LIMIT</b> 15° 23'.55N; 73° 43'.75E. 15° 27'.90N; 73° 50'.60E.	12,500	3	Rs. 1950.00

3. The Indian Charts permanently withdrawn are 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>
215	31-01-2019	BETUL TO BELEKERI	215	31-07-2012
2020	31-01-2019	MORMUGAO AND PANAJI	2020	31-10-2015
2022 (INT 7345)	31-01-2019	APPROACHES TO MORMUGAO	2022 (INT 7345)	31-03-2011
2078 (INT 7346)	31-01-2019	PORT OF MORMUGAO	2078 (INT 7346)	30-04-2015
7701 (INT 701)	15-02-2019	MAPUTO TO MUQDISHO	7701 (INT 701)	31-07-2006

## VI

4. The new Indian Electronic Navigational Charts that are available for mariners in the market are as follows:-

<i>ENC Cell Name</i>	<i>Chart No.</i>	<i>Title</i>	<i>Issue Date</i>
IN3215BT	215	BETUL TO BELEKERI	11-03-2019
IN42022G	2022	APPROACHES TO MORMUGAO	08-03-2019

5. The new edition Indian Electronic Navigational Charts that are available for mariners in the market are as follows:-

<i>ENC Cell Name</i>	<i>Chart No.</i>	<i>Title</i>	<i>Issue Date</i>
IN52020O	2020	MORMUGAO AND PANAJI	08-03-2019
IN62078O	2078	PORT OF MORMUGAO	08-03-2019
IN52099M	2099	MALE ATOLL	08-03-2019
IN62524P	2524	PORT OF ZANZIBAR	08-03-2019

6. The Indian Electronic Navigational Charts that are permanently withdrawn are as follows:-

<i>ENC Cell Name</i>	<i>Chart No.</i>	<i>Title</i>	<i>Issue Date</i>
IN3215BB	215	BETUL TO BELEKERI	04-06-2013
IN52020O	2020	MORMUGAO AND PANAJI	26-11-2015
IN42022M	2022	APPROACHES TO MORMUGAO	05-03-2012
IN62078O	2078	PORT OF MORMUGAO	17-11-2015
IN52099M	2099	MALE ATOLL	16-01-2014
IN62524P	2524	PORT OF ZANZIBAR	30-06-2015

7. The forthcoming Indian Charts are as follows:-

<i>Chart No</i>	<i>Title</i>	<i>Scale</i>	<i>Remarks</i>
205	NAVIBANDAR TO VERAVAL	1,50,000	New Chart
206	VERAVAL TO DIU HEAD	1,50,000	New Chart
3040	RAMESHWARAM TO ADAM'S BRIDGE	50,000	New Chart
7704 (INT 704)	RED SEA	22,50,000	New Chart

## VII

### 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:

<b>United Kingdom Hydrographic Office</b> Admiralty Way, Taunton, Somerset TA1 2DN, UK Tel: +44 (0) 1823 337900 Fax: +44 (0) 1823 330561, 1823 284077 Web site: <a href="http://www.hydro.gov.uk">www.hydro.gov.uk</a>	<b>C-MAP Norway AS</b> Nyaskaiveien 2, 4379 Egersund, Norway Ph: +47 51 464700, +91 2262233326 Mob: +91 9820238542 Fax: +47 51 464701, +91 2267939504 Email: <a href="mailto:enc@c-map.com">enc@c-map.com</a> , <a href="mailto:info@c-map.co.no">info@c-map.co.no</a> Website: <a href="http://www.c-map.com">www.c-map.com</a>
<b>M/s Primar</b> Norwegian Hydrographic Service, Postbox 60, 4001 Stavanger Norway Telephone - +47 - 51 85 87 00 Fax - + 47 - 51 85 87 08 E-mail: <a href="mailto:data@ecc.no">data@ecc.no</a> Website: - <a href="http://www.primar.org">www.primar.org</a>	<b>M/s IIC Technologies Limited</b> B-2-350/5/B-22, Road No. 3 Banjara Hills Hyderabad - 500 034 Telangana Tel:+91 4039144444 Fax: +91 4039144455 Email: <a href="mailto:somnath.marthi@iictechnologies.com">somnath.marthi@iictechnologies.com</a> Web: <a href="http://www.iictechnologies.com">www.iictechnologies.com</a>



**SECTION – I**

The list of charts affected by the Notices 071 to 081 contained in this edition is as follows:

<b>CHART NUMBER</b>	<b>FOLIO NO.</b>	<b>NOTICE NO.</b>
21	2	074, 079(T)
22 (INT 752)	3	079(T)
31 (INT 756)	5	078(T), 080(T)
32 (INT 754)	5	078(T), 080(T)
33 (INT 755)	5	080(T)
41 (INT 757)	6	080(T)
211	3	076(P)
214	3	077(T), 079(T)
215	3	077(T)
255 (INT 7334)	3	076(P)
257 (INT 7343)	4	079(T)
268 (INT 7353)	4	079(T)
273	4	079(T)
292 (INT 7021)	2	076(P), 079(T)
293 (INT 7022)	3	076(P), 079(T)
313	5	080(T)
354 (INT 7408)	5	078(T)
356 (INT 7400)	5	080(T)
357 (INT 7397)	5	080(T)
391	5	078(T), 080(T)
404 (INT 7439)	6	072, 080(T)
405 (INT 7440)	6	072, 080(T)
472 (INT 7032)	6	080(T)
473 (INT 7031)	6	080(T)
2016 (INT 7336)	3	076(P)
2020	3	079(T)
2022 (INT 7345)	3	077(T), 079(T)
2047	4	079(T)
2076 (INT 7338)	3	076(P)
2078 (INT 7346)	3	079(T)
2099	1	073
2123	3	076(P)
2524	1	075
3001 (INT 7402)	5	080(T)
3004 (INT 7403)	5	080(T)
3044	5	071
4006 (INT 7449)	6	072
4016	6	072
4115	6	080(T)
7071 (INT 71)	1	081(T)
7703 (INT 703)	1	079(T)
7705 (INT 705)	1	079(T)
7707 (INT 707)	1	081(T)



**SECTION – II**  
**PERMANENT NOTICES**

**\*071 (06/19) INDIA – EAST COAST – Puducherry Anchorage – Buoy.**

Source: IH-102, INS Nirupak.

**Chart 3044** [previous update NC 30 Sep 18]

Delete  Al.RG.2s 11° 55'·73N., 79° 52'·35E.

**\*072 (06/19) INDIA – ANDAMAN SEA – Andaman Islands – Port Blair – Conspicuous Object.**

Source: HSU, Port Blair.

**Chart 404 (INT 7439)** [previous update 062/18]

Insert  FS(46) 11° 39'·91N., 92° 45'·40E.

**Chart 405 (INT 7440)** [previous update 062/18]

Insert  FS(46) 11° 39'·91N., 92° 45'·40E.

**Chart 4016** [previous update 154/17]

Insert  FS(46) 11° 39'·98N., 92° 45'·30E.

**Chart 4006 (INT 7449)** [previous update 139/18]

Insert  FS(46) 11° 39'·98N., 92° 45'·30E.

**\*073 (06/19) INDIAN OCEAN – MALDIVES – Male Atoll – Anchorage Area and Submarine Cable.**

Source: NHO, Dehradun.

**Chart 2099** [previous update 107/16]

Insert limit of anchorage area  joining: 04° 12'·50N., 73° 28'·00E.

04° 12'·50N., 73° 28'·80E.

04° 13'·00N., 73° 28'·80E.

04° 13'·00N., 73° 28'·00E.

04° 12'·50N., 73° 28'·00E.

and

04° 12'·10N., 73° 28'·00E.

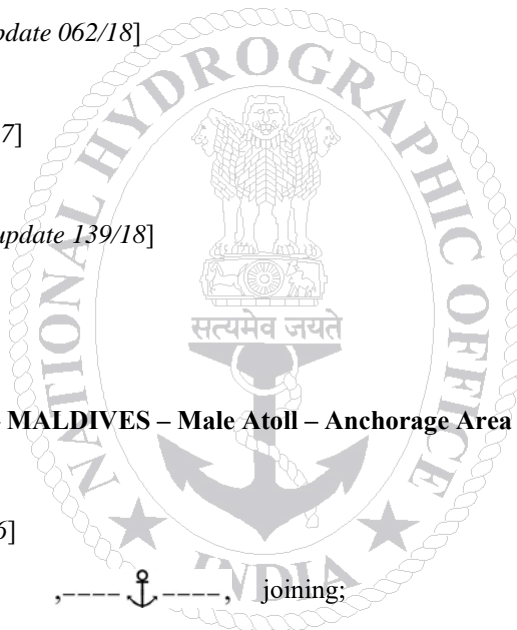
04° 12'·10N., 73° 28'·80E.

04° 12'·50N., 73° 28'·80E.

04° 12'·50N., 73° 28'·00E.

04° 12'·10N., 73° 28'·00E.

and



04° 13'·00N., 73° 28'·00E.

04° 13'·00N., 73° 28'·80E.

04° 13'·50N., 73° 28'·80E.

04° 13'·50N., 73° 28'·00E.

04° 13'·00N., 73° 28'·00E.

and

04° 12'·90N., 73° 29'·40E.

04° 12'·90N., 73° 30'·00E.

04° 13'·40N., 73° 30'·00E.

04° 13'·40N., 73° 29'·40E.

04° 12'·90N., 73° 29'·40E.

and

04° 12'·15N., 73° 30'·90E.

04° 12'·15N., 73° 31'·15E.

04° 12'·90N., 73° 31'·15E.

04° 12'·90N., 73° 30'·90E.

04° 12'·15N., 73° 30'·90E.

and

04° 12'·50N., 73° 25'·50E.

04° 12'·50N., 73° 27'·30E.

04° 13'·30N., 73° 27'·30E.

04° 13'·30N., 73° 25'·50E.

04° 12'·50N., 73° 25'·50E.

and

04° 12'·50N., 73° 27'·30E.

04° 12'·50N., 73° 28'·00E.

04° 13'·00N., 73° 28'·00E.

04° 13'·00N., 73° 27'·30E.

04° 12'·50N., 73° 27'·30E.

04° 12'·75N., 73° 28'·40E.

04° 12'·30N., 73° 28'·40E.

04° 13'·25N., 73° 28'·40E.

04° 13'·15N., 73° 29'·70E.

04° 12'·50N., 73° 31'·02E.

04° 12'·90N., 73° 26'·40E.

04° 12'·75N., 73° 27'·65E.



legend “General Purpose” centered on:

legend “Local Tanker” centered on:

legend “Laid-up Vessel” centered on:


legend “Reserved (Local Navy)” centered on:

legend “Small Craft” centered on:

legend “STS” centered on:

legend “Quarantine” centered on:

**\*073 (06/19) INDIAN OCEAN – MALDIVES – Male Atoll – Anchorage Area and Submarine Cable. (Continued).**

Insert submarine cable, , joining:

04° 10'·21N., 73° 29'·18E. (shore)

04° 10'·07N., 73° 29'·17E.

04° 09'·85N., 73° 29'·25E.

04° 09'·67N., 73° 29'·35E.

04° 09'·50N., 73° 29'·53E.

04° 09'·40N., 73° 30'·00E.

04° 09'·39N., 73° 30'·54E.

04° 09'·49N., 73° 30'·83E.

04° 09'·61N., 73° 30'·97E.

04° 09'·77N., 73° 31'·06E.

04° 09'·92N., 73° 31'·08E.

04° 10'·08N., 73° 31'·07E.

04° 10'·23N., 73° 31'·04E. (shore)

and

04° 10'·21N., 73° 31'·01E. (shore)

04° 09'·89N., 73° 31'·00E.

04° 09'·77N., 73° 31'·06E.

04° 09'·67N., 73° 31'·32E.

04° 09'·73N., 73° 32'·00E.

04° 10'·06N., 73° 32'·33E.

04° 11'·12N., 73° 32'·87E.

04° 12'·81N., 73° 33'·24E.

04° 12'·99N., 73° 33'·20E.

04° 13'·19N., 73° 32'·99E.

04° 13'·26N., 73° 32'·80E. (shore)

and

04° 10'·22N., 73° 31'·04E. (shore)

04° 09'·73N., 73° 31'·30E.

04° 09'·55N., 73° 31'·34E.

04° 09'·43N., 73° 31'·45E.

04° 09'·39N., 73° 31'·69E.

04° 09'·40N., 73° 32'·01E.

04° 09'·48N., 73° 32'·32E.

04° 09'·67N., 73° 32'·50E.

04° 09'·92N., 73° 32'·56E.

04° 10'·36N., 73° 32'·62E.



**\*073 (06/19) INDIAN OCEAN – MALDIVES – Male Atoll – Anchorage Area and Submarine Cable. (Continued).**

04° 11'·00N., 73° 33'·28E.  
 04° 11'·99N., 73° 33'·56E.  
 04° 12'·33N., 73° 33'·58E.  
 04° 12'·68N., 73° 33'·41E.  
 04° 12'·96N., 73° 33'·05E.  
 04° 13'·26N., 73° 32'·78E. (shore)  
 and  
 04° 13'·25N., 73° 32'·79E. (shore)  
 04° 13'·09N., 73° 32'·99E.  
 04° 12'·79N., 73° 33'·62E.  
 04° 12'·65N., 73° 34'·89E.  
 04° 12'·55N., 73° 35'·00E. (E border)  
 and  
 04° 13'·19N., 73° 32'·99E.  
 04° 13'·31N., 73° 33'·29E.  
 04° 13'·58N., 73° 33'·49E.  
 04° 13'·75N., 73° 33'·58E.  
 04° 13'·93N., 73° 33'·66E.  
 04° 14'·14N., 73° 33'·92E.  
 04° 14'·19N., 73° 34'·63E.  
 04° 14'·23N., 73° 34'·88E.  
 04° 14'·23N., 73° 35'·00E. (E border)  
 04° 09'·46N., 73° 29'·92E.  
 04° 11'·40N., 73° 32'·86E.  
 04° 11'·35N., 73° 33'·33E.  
 04° 12'·75N., 73° 34'·33E.  
 04° 14'·22N., 73° 34'·26E.  
 04° 11'·80N., 73° 34'·30E.



legend, “Submarine Cable (see Note)” centered on:

accompanying note “SUBMARINE CABLE” centered on:

**074 (06/19) ARABIAN SEA – Muscat to Mumbai – Light.**

Source: BA Notice 1332/18.

**Chart 21** [previous update 063/19]

Amend light to, FI(3)12M

25° 17'·60N., 60° 36'·50E.

**075 (06/19) AFRICA – EAST COAST – TANZANIA – Zanzibar Island – Port of Zanzibar – Restricted Area.**

Source: BA Notice 1717/18.

**Chart 2524** [previous update NC 15 Jun 15]

Insert	limit of restricted area, entry prohibited, pecked line, joining;	06° 10'·15S., 39° 11'·40E. (shore)
		06° 10'·15S., 39° 11'·10E.
		06° 10'·00S., 39° 11'·10E.
		06° 10'·00S., 39° 11'·27E. (shore)



**SECTION – III****TEMPORARY AND PRELIMINARY NOTICES****\*076(P) (06/19) INDIA – WEST COAST – Ulwa Channel – Construction Work.**

Source: JNPT.

1. Construction work is in progress in the area bounded by the following coordinates:-

Sl. No.	Position
(a)	18° 59'·20N., 072° 56'·90E.
(b)	18° 58'·00N., 072° 58'·80E.
(c)	18° 58'·00N., 073° 00'·30E.
(d)	18° 58'·30N., 073° 00'·70E.
(e)	18° 59'·60N., 072° 58'·90E.
(f)	18° 59'·85N., 072° 56'·90E.
(g)	18° 59'·20N., 072° 56'·90E.

2. Numerous buoys laid for marking the construction.  
 3. Mariners are advised to navigate with caution in the area and contact local port authority for latest information.

**Charts affected – 292 (INT 7021) – 293 (INT 7022) – 255 (INT 7334) – 211 – 2016 (INT 7336) – 2076 (INT 7338) – 2123.**

**Former INM 059(T)/19 is cancelled.**

**\*077(T) (06/19) INDIA– WEST COAST – Approaches to Murmugao – Buoys.**

1. Following buoys are missing:-

<u>Buoy</u>	<u>Position</u>	<u>Characteristic</u>
 (Oct to May)	15°18'.60N., 073°41'.83E	Fl.Y.4s
 (Oct to May)	14°18'.30N., 073°41'.50E	Fl.Y.4s

2. Mariners are advised to navigate with caution in the area.

**Charts affected – 214 – 215 – 2022 (INT 7345).**

**\*078(T) (06/19) INDIA – EAST COAST – Sacramento Shoal to Kalingapatnam – Unexploded Charges.**

Source: Indian Navy.

1. Unexploded charges reported dumped by Indian Naval Ship in position 17° 00'·00N., 83° 40'·50E on 07 Feb 19.

2. Mariners to take note.

**Charts Affected – 31 (INT 756) – 32 (INT 754) – 391 – 354 (INT 7408).**

**\*079 (T) (06/19) 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° 28'·70N., 67° 27'·00E.	21, 292 (INT 7021)
AD07/OB	14° 57'·88N., 68° 59'·55E.	7705 (INT 705)
AD08/ OB	11° 46'·12N., 68° 36'·65E.	7703 (INT 703), 7705 (INT 705)
AD09/ OB	08° 13'·98N., 73° 19'·90E.	22 (INT 752), 273
AD10/ OB	10°19'·30N., 72° 34'·95E.	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'·23N., 73° 46'·13E.	22 (INT 752), 293 (INT 7022), 257 (INT 7343), 214, 2022 (INT 7345), 2020, 2078 (INT 7346)
CALVAL/ MB	10° 36'·85N., 72° 17'·45E.	22 (INT 752), 273, 268 (INT 7353)
STB02/ TB	20° 48'·00N., 65° 25'·00E	21
Marker Buoy	08° 17'·00N., 73° 18'·16E	22 (INT 752), 273

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 INM 069(T)/19 is cancelled.*

**\*080(T) (06/19) 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° 47'·48N., 89° 12'·98E	31(INT 756)
BD09/ OB	17° 27'·98N., 89° 07'·00E	31(INT 756)
BD10/ OB	16° 28'·70N., 87° 58'·83E	31(INT 756)
BD11/ OB	13° 29'·83N., 84° 09'·67E	32 (INT 754), 33 (INT 755), 391
BD12/ OB	10° 26'·92N., 94° 01'·43E	33 (INT 755), 41(INT 757), 472 (INT 7032)
BD13/ OB	13° 58'·40N., 86° 56'·82E	33 (INT 755)
BD14/ OB	06° 34'·23N., 88° 14'·00E	33 (INT 755)
CB 01/ CB	11° 35'·33N., 92° 35'·77E	33 (INT 755), 41 (INT 757), 473 (INT 7031), 404 (INT 7439), 405 (INT 7440), 4115
CB 06/ CB	13° 06'·05N., 80° 19'·02E	32 (INT 754), 33 (INT 754), 356 (INT 7400), 357 (INT 7397), 391, 313, 3001 (INT 7402), 3004(INT 7403)
TB09/ TB	17° 13'·72N., 90° 00'·88E	31(INT 756)
STB01/ TB	06° 15'·00N., 88° 48'·00E	33 (INT 755)
Wave Rider	13° 05'·93N., 80° 18'·97E	32 (INT 754), 33 (INT 754), 356 (INT 7400), 357 (INT 7397), 391, 313, 3001 (INT 7402), 3004(INT 7403)

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 INM 070(T)/19 is cancelled.*

**\*081 (T) (06/19) MALDIVES TO SUMATERA – Data Buoy.**

Source: UKHO.

1. A yellow colour data buoy, 2m wide and 2.5m height mast with radar reflector laid in positions 00° 00'·10S., 85° 02'·20E

2. Mariners are advised to exercise caution.

**Charts affected – 7071 (INT 71) – 7707 (INT 707).**

## 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:-

<b>INTERNATIONAL NATIONAL NAVTEX FREQUENCY - 518 kHz</b>								
Sl.	Station Name	B1	Broad Cast Timings in UTC					
(a)	Veraval	H	0110	0510	0910	1310	1710	2110
(b)	Vengrula 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 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](mailto:indsar@vsnl.net), or [icgmrc\\_mumbai@mtnl.net](mailto: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.

#### 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](http://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](http://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(01<sup>st</sup>April 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/ IRRIDUM 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><b>OSA Books and Periodicals</b> R-246, Greater Kailash –I, New Delhi - 110 048 Tel/Fax: +91-11-26418643, 46557337, Mob: 9971093992 Email: <a href="mailto:rpani246@gmail.com">rpani246@gmail.com</a></p>	<p><b>M/s VDO Marine Insrtuments</b> Shanghar Building, PO Bag No – 645, 45/271, Corner of Bristow &amp; Naval Road, Willingdon Island, Kochi – 682 003 Tel: +91 484 2667157 Fax: +91 484 2667121 Email: <a href="mailto:atmain@md4.vsnl.net.in">atmain@md4.vsnl.net.in</a></p>
<p><b>M/s Global Charts &amp; Nav. Aids Pvt. Limited</b> 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: <a href="mailto:sales@globalcharts.in">sales@globalcharts.in</a> Web: <a href="http://www.globalcharts.com.sg">www.globalcharts.com.sg</a></p>	<p><b>SMS Marine Private Ltd</b> 505, Raheja Arcade, Sector 11, CBD Belapur, Navi Mumbai – 400 614 Tel: +91-22-62233326, Fax: 022-67939504 Mobile: +91 9820 238 542 Email: <a href="mailto:info@c-map.co.in">info@c-map.co.in</a> , <a href="mailto:raj.chakravorty@smsmap.com">raj.chakravorty@smsmap.com</a> Web: <a href="http://www.smsmaps.co.in">www.smsmaps.co.in</a></p>
<p><b>M/s C &amp; C Marine Combine</b> 25 Bank Street, 1<sup>st</sup> Floor, Fort Mumbai - 400 023 Tel: 91-22- 22660017/0018/0525/1937 Ext: 32 Tel: 91-22-22672143 Fax: 91-22-22670896 Email: <a href="mailto:vijay@ccmarine.in">vijay@ccmarine.in</a>, <a href="mailto:sales@ccmarine.in">sales@ccmarine.in</a></p>	<p><b>M/s Global Marine Infratech Pvt. Ltd.</b> 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: <a href="mailto:tusarkantha@gmiindia.in">tusarkantha@gmiindia.in</a> Web: <a href="http://www.gmiindia.in">www.gmiindia.in</a></p>
<p><b>M/s JM Maritime Services</b> 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 : <a href="mailto:jmms@mtnl.net.in">jmms@mtnl.net.in</a> , <a href="mailto:charts@mtnl.net.in">charts@mtnl.net.in</a></p>	<p><b>L. R. Marine Services</b> 301, 3rd Floor, Biry 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: <a href="mailto:lrcharts@gmail.com">lrcharts@gmail.com</a>, <a href="mailto:lrmarine@live.com">lrmarine@live.com</a></p>
<p><b>M/s Lift o Marine</b> Allen’s Mansion, C6, Nungi Station Road, Bata Nagar, Kolkata – 700 140 Tel: +91 9836972027 Fax: 033 24924283 Email: <a href="mailto:sankar@liftomarine.org">sankar@liftomarine.org</a>, <a href="mailto:liftomarine77@gmail.com">liftomarine77@gmail.com</a> Web: <a href="http://www.liftomarine.org">www.liftomarine.org</a></p>	<p><b>IIC Technologies Limited</b> 8-2-350/5/B-22, Road No. 3, Banjara Hills, Hyderabad – 500 034, Telangana Tel: +91 40 39144444 Fax: +91 40 39144455 Email: <a href="mailto:somnath.marthi@iictechnologies.com">somnath.marthi@iictechnologies.com</a> <a href="mailto:sanjeev.sharma@iictechnologies.com">sanjeev.sharma@iictechnologies.com</a> Web: <a href="http://www.iictechnologies.com">www.iictechnologies.com</a></p>
<p><b>M/s Zenith Surveys (I) Pvt. Ltd.</b> Lakhani’sPlam View, First Floor, Office No. 889, Sector 48, Nerul, Navi Mumbai – 400 706 Tel/ Fax: +91-22- 27708011 Email: <a href="mailto:zenithsurveys703@gmail.com">zenithsurveys703@gmail.com</a> <a href="mailto:nyvmane@yahoo.com">nyvmane@yahoo.com</a> Web: <a href="http://www.zenithsurvey.com">www.zenithsurvey.com</a></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 15 Mar 19:

<b>2017 SERIES</b> – 394 493 685 762 814 866
<b>2018 SERIES</b> – 222 312 375 428 471 567 661 758 767 815 818 826
<b>2019 SERIES</b> – 024 071 088 115 121 127 129 165 169 170 171 174 175 183 199 200 203 205 206 209 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232

3. NAVAREA VIII Warnings issued during the period from 01 Mar 19 to 15 Mar 19 (both dates inclusive) are as tabulated below:–

<p><b>185. India West Coast – off Kasaragod.</b> Charts IN 258 (INT 7348). Fully submerged abandoned MSV Jehovah Christ reported adrift 12-10.7N 074-09.4E at 280412 UTC Feb 19.</p> <p>2. Cancel this MSG 040415 UTC Mar 19.</p>
<p><b>186. India West Coast - off Trivandrum.</b> Charts IN 222 223 INT 752. Rocket launch from Thumba (08-31.98N 076-52.05E) scheduled on 05 Mar 19 from 0400-0600 UTC.</p> <p>2. Danger Sector:- (A) Radius of 05 NM from launcher between azimuth 190 and 300. (B) Radii of 45 and 75 NM from launcher between azimuth 220 and 260.</p> <p>3. Cancel this MSG 050700 UTC Mar 19.</p>
<p><b>187. Cancel NAVAREA VIII MSG 161/19 and this MSG.</b></p>
<p><b>188. Cancel NAVAREA VIII MSG 077/19, 079, 085, 087, 136, 140 and this MSG.</b> INTM 061, 062, 063, 065, 066, 068(T)/19 refers.</p>
<p><b>189. India West Coast - off Mormugao.</b> Charts 22 293 (INT 7022). Firing by Naval Ships scheduled from 051630 to 081830 UTC Mar 19 in danger area bounded by 14-15N 072-52E, 14-20N 071-52E, 15-30N 071-48E, 16-09N 072-44E, 15-17N 073-21E.</p> <p>2. Cancel this MSG 081930 UTC Mar 19.</p>
<p><b>190. Central Arabian Sea.</b> Charts INT 71 INT 705. Firing by Naval Ships scheduled on 04 Mar 19 from 0030 to 0930 UTC in danger area bounded within 13-25N to 14-00N and 065-50E to 066-30E.</p> <p>2. Cancel this MSG 041030 UTC Mar 19.</p>
<p><b>191. Central Arabian Sea.</b> Charts 22 INT 71 INT 705. Firing by Naval Ships scheduled on 05 Mar 19 from 0030 to 0930 UTC in danger area bounded within 11-40N to 12-17N and 069-12E to 069-50E.</p> <p>2. Cancel this MSG 051030 UTC Mar 19.</p>
<p><b>192. India West Coast - off Mormugao.</b> Charts 22 293 (INT 7022). Firing by Naval Aircraft scheduled from 051630 to 071830 UTC Mar 19 in danger area bounded within 13-27N to 15-00N and 070-15E to 071-47E.</p> <p>2. Cancel this MSG 071930 UTC Mar 19.</p>
<p><b>193. NAVAREA VIII warnings in force as on 01 mar 2019:-</b>  <b>2017 SERIES</b> – 394 493 685 762 814 866  <b>2018 SERIES</b> – 222 312 375 428 471 567 604 661 758 767 815 818 826  <b>2019 SERIES</b> – 023 024 060 071 078 083 088 099 106 115 117 121 127 129 131 153 156 160 164 165 167 169 170 171 174 175 176 177 178 179 181 182 183 184 185 186 187 188 189 190 191 192          (A) NAVAREA VIII warnings less than 42 days promulgated via safety net.          (B) Text of NAVAREA VIII warnings inforce including those which no longer broadcast available in <a href="http://www.hydrobharat.gov.in">www.hydrobharat.gov.in</a></p> <p>2. Cancel this MSG 081830 UTC Mar 19.</p>
<p><b>194. India West Coast- off Karwar.</b> Charts IN 257 293 (INT 7022). Firing of underwater explosives by Naval Ships and Aircrafts scheduled from 020001 to 102359 UTC Mar 19 in danger area bounded by 15-11N 072-14E, 15-47N 073-21E, 14-20N 074-22E, 13-25N 073-15E.</p> <p>2. Cancel this MSG 110100 UTC Mar 19.</p>
<p><b>195. India West Coast- off Okha.</b> Charts IN 21 291 292 INT 71. Firing of underwater explosives by Naval Ships and Aircrafts scheduled from 020001 to 102359 UTC Mar 19 in danger area bounded by 22-50N 068-00E, 20-50N 069-30E, 20-15N 068-30E, 22-20N 067-10E.</p> <p>2. Cancel this MSG 110100 UTC Mar 19.</p>
<p><b>196. India West Coast – off Mumbai to Daman.</b> Chart IN 292 (INT 7021). SV Fugro mapper progressing survey at 19-24.11N 071-23.06E, 19-21.87N 071-12.65E, 18-48.4N 072-20E, 19-34.28N 071-17.86E, 18-38.27N 072-14.04E, 18-39.23N 070-58.86E, 19-22.29N 071-03.63E, 19-12.8N 072-06.73E, 20-10.54N 071-55.7E. Wide berth requested.</p>

<b>196. Continued.</b>
2. Cancel this MSG 311830 UTC Mar 19.
<b>197. India West Coast- off Karwar.</b> Charts IN 215 216 257 (INT 7343). Firing of underwater explosives by Naval Ships and Aircrafts scheduled from 021000 to 102359 UTC Mar 19 in danger area bounded by 14-55N 071-51E, 15-12N 072-22E, 13-23N 073-15E, 13-09N 072-46E.
2. Cancel this MSG 110100 UTC Mar 19.
<b>198. India East Coast – Vishakhapatnam.</b> Charts IN 308 3002 INT 7408. Firing by Naval Coast Battery scheduled on 06 Mar 19 from 0001 to 0200 UTC in danger sector extending upto 17 NM between bearing 070 and 130 from 17-42N 083-18E.
2. Cancel this MSG 060300 UTC Mar 19.
<b>199. Andaman Sea – Sister Island.</b> Charts IN 405 (INT 7440) 4030. LT Fl(4)20s established at 11-08.66N 092-43.75E on trial run.
<b>200. NE Indian Ocean.</b> Chart INT 71. ODAS Buoy with radar reflector reported 00-00.1S 085-02.2E.
<b>201. India West Coast – off Mumbai.</b> Charts IN 255 (INT 7334). RV Pacific Finder and Neptune Naiad with support vessels progressing seismic survey in area bounded by 18-41.83N 070-44.15E, 18-50.55N 071-09E, 18-42.87N 071-08.95E, 18-36.11N 070-49.89E. Vessels towing 3 cables of 130 metres with 200 metres spread. Wide berth requested.
2. Cancel this MSG 091830 UTC Mar 19.
<b>202. Cancel NAVAREA VIII MSG 604/18, 060/19, 078, 083 and this MSG.</b>
<b>203. India West Coast – Gulf of Khambhat.</b> Charts IN 2044 INT 7331. Bhagva LT (21-19N 072-37E) damaged and non-operational.
<b>204. Andaman Sea – Keating Point.</b> Charts IN 407 (INT 7445). DGPS (09-15N 092-46E) off.
<b>205. SE Indian Ocean.</b> Chart INT 70. Fallout hazard predicted from rocket Vega VV14 daily from 15 Mar to 14 Apr 19 from 0402 - 0519 UTC in area bounded by 30-58S 086-42E, 18-35S 089-34E, 18-41S 089-58E, 31-03S 087-06E.
2. Cancel this MSG 140620 UTC Apr 19.
<b>206. Andaman Sea – off Andaman And Nicobar Islands.</b> Chart IN 41 (INT 757). SV Northern endeavour and MV ACOMS11 progressing route survey along 12-35.7N 093-13.42E, 12-30.59N 092-02.12E, 06-41.12N 093-07.67E, 06-51.02N 094-29.47E. Wide berth requested.
2. Cancel NAVAREA VIII MSG 099/19.
<b>207. India West Coast – off Mumbai.</b> Charts IN 255 (INT 7334). RV Pacific Finder and Neptune Naiad with support vessels progressing seismic survey in area bounded by 18-41.83N 070-44.15E, 18-50.55N 071-09E, 18-42.87N 071-08.95E, 18-36.11N 070-49.89E. Vessels towing 3 cables of 130 metres with 200 metres spread. Wide berth requested.
2. Cancel NAVAREA VIII MSG 201/19 and this MSG 121830 UTC Mar 19.
<b>208. India East Coast – Paradip.</b> Charts IN 3010 (INT 7418). DGPS (20-15N 086-39E) off from 0030 - 1230 UTC on 09 Mar 19.
2. Cancel this MSG 091230 UTC Mar 19.
<b>209. India East Coast - off Kakinada.</b> Charts IN 355 (INT 7405). SV Fugro Equator progressing survey in area bounded by 16-25.68N 082-00.58E, 16-24.98N 081-59.14E, 16-22.73N 082-02.12E, 16-22.31N 082-12.11E, 16-07.09N 082-12.46E, 16-06.24 082-22.95E, 16-15.29N 082-25.35E, 16-25.57N 082-25.75E, 16-35.55N 082-19.42E, 16-34.12N 082-18.01E, 16-31.21N 082-19.52E, 16-23.81N 082-07.85E, 16-24.04N 082-03E. Wide berth requested.
<b>210. NAVAREA VIII warnings in force as on 08 Mar 2019:-</b>
<b>2017 SERIES</b> – 394 493 685 762 814 866
<b>2018 SERIES</b> - 222 312 375 428 471 567 661 758 767 815 818 826
<b>2019 SERIES</b> – 023 024 071 088 115 121 127 129 131 153 156 160 165 167 169 170 171 174 175 176 182 183 184 194 195 196 197 199 200 203 204 205 206 207 208 209
(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 <a href="http://www.hydrobharat.gov.in">www.hydrobharat.gov.in</a>
2. Cancel this MSG 161830 UTC Mar 19.
<b>211. India West Coast.</b> Charts IN 254 255 292 INT 71. Rig list:-
ACTINIA 19-27.04N 071-01.19E
CE THORNTON 18-35.38N 072-17.46E
DEEP SEA MATDRILL 19-39.98N 071-35.75E
FG MCCLINTOCK 19-24.01N 071-15.55E
GREAT DRILL CHAAYA 18-37.24N 072-14.94E
GREAT DRILL CHAARU 19-13.97N 072-12.32E
GREAT DRILL CHETNA 21-37.96N 068-26.41E
GREAT DRILL CHITRA 19-22.58N 071-00.85E
HARVEY H WARD 18-56.59N 071-38.49E NEW
JINDAL STAR 20-14.88N 071-57.76E
JINDAL SUPREME 19-14.58N 072-14.66E
JT ANGEL 19-35.30N 071-38.70E
PARAMESWARA 22-55.80N 068-21.48E
SAGAR GAURAV 19-35.93N 070-57.18E

<b>211. Continued.</b>																																																	
	<table> <tr><td>SAGAR KIRAN</td><td>18-47.39N 072-30.66E</td></tr> <tr><td>SAGAR SHAKTI</td><td>20-22.31N 072-18.69E</td></tr> <tr><td>SAGAR UDAY</td><td>19-08.42N 070-53.87E</td></tr> <tr><td>TRIDENT II</td><td>19-19.47N 071-12.06E</td></tr> <tr><td>TRIDENT XII</td><td>18-44.96N 072-20.01E</td></tr> <tr><td>VALIANT DRILLER</td><td>19-33.05N 071-40.12E</td></tr> <tr><td>VICTORY DRILLER</td><td>19-28.70N 071-46.66E</td></tr> <tr><td>VIRTUE-I</td><td>19-15.20N 072-02.17E</td></tr> <tr><td>VIVEKANANDA1</td><td>20-08.71N 071-44.94E</td></tr> <tr><td>VIVEKANANDA2</td><td>19-11.05N 072-11.20E</td></tr> </table>	SAGAR KIRAN	18-47.39N 072-30.66E	SAGAR SHAKTI	20-22.31N 072-18.69E	SAGAR UDAY	19-08.42N 070-53.87E	TRIDENT II	19-19.47N 071-12.06E	TRIDENT XII	18-44.96N 072-20.01E	VALIANT DRILLER	19-33.05N 071-40.12E	VICTORY DRILLER	19-28.70N 071-46.66E	VIRTUE-I	19-15.20N 072-02.17E	VIVEKANANDA1	20-08.71N 071-44.94E	VIVEKANANDA2	19-11.05N 072-11.20E																												
SAGAR KIRAN	18-47.39N 072-30.66E																																																
SAGAR SHAKTI	20-22.31N 072-18.69E																																																
SAGAR UDAY	19-08.42N 070-53.87E																																																
TRIDENT II	19-19.47N 071-12.06E																																																
TRIDENT XII	18-44.96N 072-20.01E																																																
VALIANT DRILLER	19-33.05N 071-40.12E																																																
VICTORY DRILLER	19-28.70N 071-46.66E																																																
VIRTUE-I	19-15.20N 072-02.17E																																																
VIVEKANANDA1	20-08.71N 071-44.94E																																																
VIVEKANANDA2	19-11.05N 072-11.20E																																																
2.	Wide berth requested.																																																
3.	Cancel NAVAREA VIII MSG 176/19.																																																
<b>212. India West Coast – off Mumbai.</b>	Charts IN 211 INT 7334. RV Pacific Finder with support vessels progressing seismic survey in area bounded by 18-51.13N 072-13.04E, 18-54.61N 072-25.34E, 18-45.59N 072-26.53E, 18-45.4N 072-13.03E. Vessels towing 3 Cables of 130 metres with 200 metres spread. Wide berth requested.																																																
2.	Cancel this MSG 081830 Apr 19.																																																
<b>213. Cancel NAVAREA VIII MSG 204/19 and this MSG.</b>																																																	
<b>214. India West Coast.</b>	Charts IN 254 255 292 INT 71. Rig list:-																																																
	<table> <tr><td>ACTINIA</td><td>19-27.04N 071-01.19E</td></tr> <tr><td>CE THORNTON</td><td>18-35.38N 072-17.46E</td></tr> <tr><td>DEEP SEA MATDRILL</td><td>19-39.98N 071-35.75E</td></tr> <tr><td>FG MCCLINTOCK</td><td>19-24.01N 071-15.55E</td></tr> <tr><td>GREAT DRILL CHAAYA</td><td>18-37.24N 072-14.94E</td></tr> <tr><td>GREAT DRILL CHAARU</td><td>19-13.97N 072-12.32E</td></tr> <tr><td>GREAT DRILL CHETNA</td><td>21-37.96N 068-26.41E</td></tr> <tr><td>GREAT DRILL CHITRA</td><td>19-22.58N 071-00.85E</td></tr> <tr><td>HARVEY H WARD</td><td>18-56.59N 071-38.49E</td></tr> <tr><td>JINDAL STAR</td><td>20-14.88N 071-57.76E</td></tr> <tr><td>JINDAL SUPREME</td><td>19-14.58N 072-14.66E</td></tr> <tr><td>JT ANGEL</td><td>19-14.98N 071-28.43E NEW</td></tr> <tr><td>PARAMESWARA</td><td>22-55.80N 068-21.48E</td></tr> <tr><td>SAGAR GAURAV</td><td>19-35.93N 070-57.18E</td></tr> <tr><td>SAGAR KIRAN</td><td>18-47.39N 072-30.66E</td></tr> <tr><td>SAGAR SHAKTI</td><td>20-22.31N 072-18.69E</td></tr> <tr><td>SAGAR UDAY</td><td>19-08.42N 070-53.87E</td></tr> <tr><td>TRIDENT II</td><td>19-19.47N 071-12.06E</td></tr> <tr><td>TRIDENT XII</td><td>18-44.96N 072-20.01E</td></tr> <tr><td>VALIANT DRILLER</td><td>20-23.60N 071-21.13E NEW</td></tr> <tr><td>VICTORY DRILLER</td><td>19-28.70N 071-46.66E</td></tr> <tr><td>VIRTUE-I</td><td>19-15.20N 072-02.17E</td></tr> <tr><td>VIVEKANANDA1</td><td>20-08.71N 071-44.94E</td></tr> <tr><td>VIVEKANANDA2</td><td>19-11.05N 072-11.20E</td></tr> </table>	ACTINIA	19-27.04N 071-01.19E	CE THORNTON	18-35.38N 072-17.46E	DEEP SEA MATDRILL	19-39.98N 071-35.75E	FG MCCLINTOCK	19-24.01N 071-15.55E	GREAT DRILL CHAAYA	18-37.24N 072-14.94E	GREAT DRILL CHAARU	19-13.97N 072-12.32E	GREAT DRILL CHETNA	21-37.96N 068-26.41E	GREAT DRILL CHITRA	19-22.58N 071-00.85E	HARVEY H WARD	18-56.59N 071-38.49E	JINDAL STAR	20-14.88N 071-57.76E	JINDAL SUPREME	19-14.58N 072-14.66E	JT ANGEL	19-14.98N 071-28.43E NEW	PARAMESWARA	22-55.80N 068-21.48E	SAGAR GAURAV	19-35.93N 070-57.18E	SAGAR KIRAN	18-47.39N 072-30.66E	SAGAR SHAKTI	20-22.31N 072-18.69E	SAGAR UDAY	19-08.42N 070-53.87E	TRIDENT II	19-19.47N 071-12.06E	TRIDENT XII	18-44.96N 072-20.01E	VALIANT DRILLER	20-23.60N 071-21.13E NEW	VICTORY DRILLER	19-28.70N 071-46.66E	VIRTUE-I	19-15.20N 072-02.17E	VIVEKANANDA1	20-08.71N 071-44.94E	VIVEKANANDA2	19-11.05N 072-11.20E
ACTINIA	19-27.04N 071-01.19E																																																
CE THORNTON	18-35.38N 072-17.46E																																																
DEEP SEA MATDRILL	19-39.98N 071-35.75E																																																
FG MCCLINTOCK	19-24.01N 071-15.55E																																																
GREAT DRILL CHAAYA	18-37.24N 072-14.94E																																																
GREAT DRILL CHAARU	19-13.97N 072-12.32E																																																
GREAT DRILL CHETNA	21-37.96N 068-26.41E																																																
GREAT DRILL CHITRA	19-22.58N 071-00.85E																																																
HARVEY H WARD	18-56.59N 071-38.49E																																																
JINDAL STAR	20-14.88N 071-57.76E																																																
JINDAL SUPREME	19-14.58N 072-14.66E																																																
JT ANGEL	19-14.98N 071-28.43E NEW																																																
PARAMESWARA	22-55.80N 068-21.48E																																																
SAGAR GAURAV	19-35.93N 070-57.18E																																																
SAGAR KIRAN	18-47.39N 072-30.66E																																																
SAGAR SHAKTI	20-22.31N 072-18.69E																																																
SAGAR UDAY	19-08.42N 070-53.87E																																																
TRIDENT II	19-19.47N 071-12.06E																																																
TRIDENT XII	18-44.96N 072-20.01E																																																
VALIANT DRILLER	20-23.60N 071-21.13E NEW																																																
VICTORY DRILLER	19-28.70N 071-46.66E																																																
VIRTUE-I	19-15.20N 072-02.17E																																																
VIVEKANANDA1	20-08.71N 071-44.94E																																																
VIVEKANANDA2	19-11.05N 072-11.20E																																																
2.	Wide berth requested.																																																
3.	Cancel NAVAREA VIII MSG 211/19.																																																
<b>215. North Indian Ocean.</b>	Chart INT 71. SLFV Nikela1 reported adrift 00-56N 079-13E at 110830 UTC Mar 19.																																																
2.	Cancel this MSG 140830 UTC Mar 19.																																																
<b>216. India West Coast.</b>	Charts IN 254 255 292 INT 71. Rig list:-																																																
	<table> <tr><td>ACTINIA</td><td>19-26.69N 070-58.52E NEW</td></tr> <tr><td>CE THORNTON</td><td>18-35.38N 072-17.46E</td></tr> <tr><td>DEEP SEA MATDRILL</td><td>19-39.98N 071-35.75E</td></tr> <tr><td>FG MCCLINTOCK</td><td>19-24.01N 071-15.55E</td></tr> <tr><td>GREAT DRILL CHAAYA</td><td>18-37.24N 072-14.94E</td></tr> <tr><td>GREAT DRILL CHAARU</td><td>19-13.97N 072-12.32E</td></tr> <tr><td>GREAT DRILL CHETNA</td><td>21-37.96N 068-26.41E</td></tr> <tr><td>GREAT DRILL CHITRA</td><td>19-22.58N 071-00.85E</td></tr> <tr><td>HARVEY H WARD</td><td>18-56.59N 071-38.49E</td></tr> <tr><td>JINDAL STAR</td><td>20-14.88N 071-57.76E</td></tr> <tr><td>JINDAL SUPREME</td><td>19-14.58N 072-14.66E</td></tr> <tr><td>JT ANGEL</td><td>19-14.98N 071-28.43E</td></tr> <tr><td>PARAMESWARA</td><td>22-55.80N 068-21.48E</td></tr> <tr><td>SAGAR GAURAV</td><td>19-35.93N 070-57.18E</td></tr> <tr><td>SAGAR KIRAN</td><td>18-47.39N 072-30.66E</td></tr> <tr><td>SAGAR SHAKTI</td><td>20-22.31N 072-18.69E</td></tr> </table>	ACTINIA	19-26.69N 070-58.52E NEW	CE THORNTON	18-35.38N 072-17.46E	DEEP SEA MATDRILL	19-39.98N 071-35.75E	FG MCCLINTOCK	19-24.01N 071-15.55E	GREAT DRILL CHAAYA	18-37.24N 072-14.94E	GREAT DRILL CHAARU	19-13.97N 072-12.32E	GREAT DRILL CHETNA	21-37.96N 068-26.41E	GREAT DRILL CHITRA	19-22.58N 071-00.85E	HARVEY H WARD	18-56.59N 071-38.49E	JINDAL STAR	20-14.88N 071-57.76E	JINDAL SUPREME	19-14.58N 072-14.66E	JT ANGEL	19-14.98N 071-28.43E	PARAMESWARA	22-55.80N 068-21.48E	SAGAR GAURAV	19-35.93N 070-57.18E	SAGAR KIRAN	18-47.39N 072-30.66E	SAGAR SHAKTI	20-22.31N 072-18.69E																
ACTINIA	19-26.69N 070-58.52E NEW																																																
CE THORNTON	18-35.38N 072-17.46E																																																
DEEP SEA MATDRILL	19-39.98N 071-35.75E																																																
FG MCCLINTOCK	19-24.01N 071-15.55E																																																
GREAT DRILL CHAAYA	18-37.24N 072-14.94E																																																
GREAT DRILL CHAARU	19-13.97N 072-12.32E																																																
GREAT DRILL CHETNA	21-37.96N 068-26.41E																																																
GREAT DRILL CHITRA	19-22.58N 071-00.85E																																																
HARVEY H WARD	18-56.59N 071-38.49E																																																
JINDAL STAR	20-14.88N 071-57.76E																																																
JINDAL SUPREME	19-14.58N 072-14.66E																																																
JT ANGEL	19-14.98N 071-28.43E																																																
PARAMESWARA	22-55.80N 068-21.48E																																																
SAGAR GAURAV	19-35.93N 070-57.18E																																																
SAGAR KIRAN	18-47.39N 072-30.66E																																																
SAGAR SHAKTI	20-22.31N 072-18.69E																																																

<b>216. Continued.</b>																																													
	<table> <tr><td>SAGAR UDAY</td><td>19-08.42N 070-53.87E</td></tr> <tr><td>TRIDENT II</td><td>19-19.47N 071-12.06E</td></tr> <tr><td>TRIDENT XII</td><td>18-44.96N 072-20.01E</td></tr> <tr><td>VALIANT DRILLER</td><td>20-23.60N 071-21.13E</td></tr> <tr><td>VICTORY DRILLER</td><td>19-28.70N 071-46.66E</td></tr> <tr><td>VIRTUE-I</td><td>19-15.20N 072-02.17E</td></tr> <tr><td>VIVEKANANDA1</td><td>20-08.71N 071-44.94E</td></tr> <tr><td>VIVEKANANDA2</td><td>19-11.05N 072-11.20E</td></tr> </table>	SAGAR UDAY	19-08.42N 070-53.87E	TRIDENT II	19-19.47N 071-12.06E	TRIDENT XII	18-44.96N 072-20.01E	VALIANT DRILLER	20-23.60N 071-21.13E	VICTORY DRILLER	19-28.70N 071-46.66E	VIRTUE-I	19-15.20N 072-02.17E	VIVEKANANDA1	20-08.71N 071-44.94E	VIVEKANANDA2	19-11.05N 072-11.20E																												
SAGAR UDAY	19-08.42N 070-53.87E																																												
TRIDENT II	19-19.47N 071-12.06E																																												
TRIDENT XII	18-44.96N 072-20.01E																																												
VALIANT DRILLER	20-23.60N 071-21.13E																																												
VICTORY DRILLER	19-28.70N 071-46.66E																																												
VIRTUE-I	19-15.20N 072-02.17E																																												
VIVEKANANDA1	20-08.71N 071-44.94E																																												
VIVEKANANDA2	19-11.05N 072-11.20E																																												
2.	Wide berth requested.																																												
3.	Cancel NAVAREA VIII MSG 214/19.																																												
<b>217. India West Coast - off Karwar.</b>	Charts IN 257 293 (INT 7022). Firing by Naval Ship scheduled on 16 Mar from 0730 to 0830 and 1030 to 1130, 17 Mar 19 from 0430 to 0530 and 0830 to 0930 UTC in danger area bounded within 14-35N to 14-45N and 072-50E to 073-00E.																																												
2.	Cancel this MSG 171030 UTC Mar 19.																																												
<b>218. India West Coast – off Mumbai.</b>	Charts IN 255 (INT 7334). RV Neptune Naiad with support vessel progressing seismic survey in area bounded by 18-41.83N 070-44.15E, 18-50.55N 071-09E, 18-45.62N 071-08.97E, 18-38.24N 070-47.76E. Vessels towing 3 cables of 130 metres with 200 metres spread. Wide berth requested.																																												
<b>219. India East Coast.</b>	Charts IN 355 (INT 7405). Rig list:-																																												
	<table> <tr><td>ABAN II</td><td>16-39.01N 082-22.73E</td></tr> <tr><td>DEEP DRILLER8</td><td>16-40.09N 082-25.43E</td></tr> <tr><td>DDKG1</td><td>16-09.53N 082-35.82E</td></tr> <tr><td>ESSAR WILDCAT</td><td>16-18.41N 082-12.33E</td></tr> <tr><td>SSV LOUISIANA</td><td>16-19.56N 082-21.06E</td></tr> <tr><td>OLINDA STAR</td><td>16-19.38N 082-16.53E NEW</td></tr> <tr><td>DSR PLATINUM EXPLORER</td><td>16-16.07N 082-23.17E</td></tr> <tr><td>SAGAR RATNA</td><td>16-20.49N 081-59.73E DEMOBILISED</td></tr> <tr><td>WEST TELESTO</td><td>17-01.00N 082-25.00E</td></tr> </table>	ABAN II	16-39.01N 082-22.73E	DEEP DRILLER8	16-40.09N 082-25.43E	DDKG1	16-09.53N 082-35.82E	ESSAR WILDCAT	16-18.41N 082-12.33E	SSV LOUISIANA	16-19.56N 082-21.06E	OLINDA STAR	16-19.38N 082-16.53E NEW	DSR PLATINUM EXPLORER	16-16.07N 082-23.17E	SAGAR RATNA	16-20.49N 081-59.73E DEMOBILISED	WEST TELESTO	17-01.00N 082-25.00E																										
ABAN II	16-39.01N 082-22.73E																																												
DEEP DRILLER8	16-40.09N 082-25.43E																																												
DDKG1	16-09.53N 082-35.82E																																												
ESSAR WILDCAT	16-18.41N 082-12.33E																																												
SSV LOUISIANA	16-19.56N 082-21.06E																																												
OLINDA STAR	16-19.38N 082-16.53E NEW																																												
DSR PLATINUM EXPLORER	16-16.07N 082-23.17E																																												
SAGAR RATNA	16-20.49N 081-59.73E DEMOBILISED																																												
WEST TELESTO	17-01.00N 082-25.00E																																												
2.	Wide berth requested.																																												
3.	Cancel NAVAREA VIII MSG 160/19.																																												
<b>220. India West Coast – off Azhikkal.</b>	Charts IN 218 INT 7348. Wreck reported 12-05N 075-00E.																																												
<b>221. North Indian Ocean.</b>	Chart INT 71. SLFV Nikela1 reported adrift 00-40N 079-22E at 130330 UTC Mar 19.																																												
2.	Cancel NAVAREA VIII MSG 215/19 and this MSG 160330 UTC Mar 19.																																												
<b>222. Bay of Bengal – off Balasore.</b>	Charts IN 31(INT 756) 351 352. Experimental Flight Trial scheduled from ITR on 18, 19, 20 Mar 19 from 0630 to 1030 UTC in danger area bounded by 21-31.27N 087-07.03E, 20-41.97N 088-04.61E, 19-20.74N 086-32.79E, 19-44.06N 086-15.91E, 20-32.21N 087-13.49E, 20-48.59N 087-08.02E, 20-57.36N 086-54.46E, 21-09.76N 086-48.84E, 21-19.69N 086-53.63E.																																												
2.	Cancel this MSG 201130 UTC Mar 19.																																												
<b>223. India East Coast – off Kakinada.</b>	Charts IN 31(INT 756) 391. Firing by Naval Ships scheduled from 180030 to 201630 UTC Mar 19 in danger area bounded by 15-30N 083-24E, 16-14N 084-00E, 15-34N 084-46E, 15-08N 084-24E.																																												
2.	Cancel this MSG 201730 UTC Mar 19.																																												
<b>224. India West Coast.</b>	Charts IN 251 254 255 292 INT 71. Rig list:-																																												
	<table> <tr><td>ACTINIA</td><td>19-26.69N 070-58.52E</td></tr> <tr><td>CE THORNTON</td><td>18-35.38N 072-17.46E</td></tr> <tr><td>DEEP SEA MATDRILL</td><td>19-39.98N 071-35.75E</td></tr> <tr><td>FG MCCLINTOCK</td><td>19-24.01N 071-15.55E</td></tr> <tr><td>GREAT DRILL CHAAYA</td><td>18-37.24N 072-14.94E</td></tr> <tr><td>GREAT DRILL CHAARU</td><td>19-13.97N 072-12.32E</td></tr> <tr><td>GREAT DRILL CHETNA</td><td>22-49.35N 068-24.86E NEW</td></tr> <tr><td>GREAT DRILL CHITRA</td><td>19-22.58N 071-00.85E</td></tr> <tr><td>HARVEY H WARD</td><td>18-56.59N 071-38.49E</td></tr> <tr><td>JINDAL STAR</td><td>20-14.88N 071-57.76E</td></tr> <tr><td>JINDAL SUPREME</td><td>19-14.58N 072-14.66E</td></tr> <tr><td>JT ANGEL</td><td>19-14.98N 071-28.43E</td></tr> <tr><td>PARAMESWARA</td><td>22-55.80N 068-21.48E</td></tr> <tr><td>SAGAR GAURAV</td><td>19-35.93N 070-57.18E</td></tr> <tr><td>SAGAR KIRAN</td><td>18-47.39N 072-30.66E</td></tr> <tr><td>SAGAR SHAKTI</td><td>20-22.31N 072-18.69E</td></tr> <tr><td>SAGAR UDAY</td><td>19-08.42N 070-53.87E</td></tr> <tr><td>TRIDENT II</td><td>19-19.47N 071-12.06E</td></tr> <tr><td>TRIDENT XII</td><td>18-44.96N 072-20.01E</td></tr> <tr><td>VALIANT DRILLER</td><td>20-23.60N 071-21.13E</td></tr> <tr><td>VICTORY DRILLER</td><td>19-28.70N 071-46.66E</td></tr> <tr><td>VIRTUE-I</td><td>19-15.20N 072-02.17E</td></tr> </table>	ACTINIA	19-26.69N 070-58.52E	CE THORNTON	18-35.38N 072-17.46E	DEEP SEA MATDRILL	19-39.98N 071-35.75E	FG MCCLINTOCK	19-24.01N 071-15.55E	GREAT DRILL CHAAYA	18-37.24N 072-14.94E	GREAT DRILL CHAARU	19-13.97N 072-12.32E	GREAT DRILL CHETNA	22-49.35N 068-24.86E NEW	GREAT DRILL CHITRA	19-22.58N 071-00.85E	HARVEY H WARD	18-56.59N 071-38.49E	JINDAL STAR	20-14.88N 071-57.76E	JINDAL SUPREME	19-14.58N 072-14.66E	JT ANGEL	19-14.98N 071-28.43E	PARAMESWARA	22-55.80N 068-21.48E	SAGAR GAURAV	19-35.93N 070-57.18E	SAGAR KIRAN	18-47.39N 072-30.66E	SAGAR SHAKTI	20-22.31N 072-18.69E	SAGAR UDAY	19-08.42N 070-53.87E	TRIDENT II	19-19.47N 071-12.06E	TRIDENT XII	18-44.96N 072-20.01E	VALIANT DRILLER	20-23.60N 071-21.13E	VICTORY DRILLER	19-28.70N 071-46.66E	VIRTUE-I	19-15.20N 072-02.17E
ACTINIA	19-26.69N 070-58.52E																																												
CE THORNTON	18-35.38N 072-17.46E																																												
DEEP SEA MATDRILL	19-39.98N 071-35.75E																																												
FG MCCLINTOCK	19-24.01N 071-15.55E																																												
GREAT DRILL CHAAYA	18-37.24N 072-14.94E																																												
GREAT DRILL CHAARU	19-13.97N 072-12.32E																																												
GREAT DRILL CHETNA	22-49.35N 068-24.86E NEW																																												
GREAT DRILL CHITRA	19-22.58N 071-00.85E																																												
HARVEY H WARD	18-56.59N 071-38.49E																																												
JINDAL STAR	20-14.88N 071-57.76E																																												
JINDAL SUPREME	19-14.58N 072-14.66E																																												
JT ANGEL	19-14.98N 071-28.43E																																												
PARAMESWARA	22-55.80N 068-21.48E																																												
SAGAR GAURAV	19-35.93N 070-57.18E																																												
SAGAR KIRAN	18-47.39N 072-30.66E																																												
SAGAR SHAKTI	20-22.31N 072-18.69E																																												
SAGAR UDAY	19-08.42N 070-53.87E																																												
TRIDENT II	19-19.47N 071-12.06E																																												
TRIDENT XII	18-44.96N 072-20.01E																																												
VALIANT DRILLER	20-23.60N 071-21.13E																																												
VICTORY DRILLER	19-28.70N 071-46.66E																																												
VIRTUE-I	19-15.20N 072-02.17E																																												

<b>224. Continued.</b>	VIVEKANANDA1 VIVEKANANDA2	20-08.71N 071-44.94E 19-11.05N 072-11.20E
2.	Wide berth requested.	
3.	Cancel NAVAREA VIII MSG 216/19.	
<b>225. India West Coast – off Mumbai.</b>	Charts IN 255 (INT 7334). RV Pacific Finder with support vessels progressing seismic survey in area bounded by 18-29.29N 072-07.89E, 18-29.21N 072-23.17E, 18-23.07N 072-23.20E, 18-22.97N 072-07.93E. Vessels towing 3 cables of 130 metres with 200 metres spread. Wide berth requested.	
2.	Cancel NAVAREA VIII MSG 212/19 and this MSG 011830 UTC Apr 19.	
<b>226. India East Coast – off Gopalpur.</b>	Charts IN 352 353 (INT 7413). Army Air Defence Firing and BPTA Flight scheduled on 18, 19, 20, 25, 26, 27, 28, 29 Mar 19 from 0130-0830 and 0930-1430 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.	
2.	Cancel this MSG 291530 UTC Mar 19.	
<b>227. India East Coast – Vishakhapatnam.</b>	Charts IN 308 3002 INT 7408. Firing by Naval Coast Battery scheduled on 20 Mar 19 from 0001 to 0200 UTC in danger sector extending upto 17 NM between bearing 070 and 130 from 17-42N 083-18E.	
2.	Cancel this MSG 200300 UTC Mar 19.	
<b>228. India East Coast – off Vishakhapatnam.</b>	Charts IN 31 354 (INT 7408). Firing by Naval Aircraft scheduled on 19, 20 Mar 19 from 0330-0930 UTC in danger area bounded within 16-39N to 16-49.5N and 083-47E to 083-57.5E.	
2.	Cancel this MSG 201030 UTC Mar 19.	
<b>229. India West Coast – Okha.</b>	Charts IN 271 2068 INT 7319. Firing by Naval Coast Battery scheduled on 20 Mar 19 from 0530 to 0730 UTC in danger sector extending upto 12 NM within bearing 300 to 020 from 22-28.75N 069-04.05E.	
2.	Cancel this MSG 200830 UTC Mar 19.	
<b>230. Andaman Sea – off Port Blair.</b>	Charts IN 404 473 4016 INT 757. Firing practice scheduled on 20 Mar 19 from 0230 to 0830 UTC in danger area bounded by 11-39.7N 092-46.3E, 11-40.6N 092-47E, 11-38.7N 092-53.1E, 11-32.9N 092-48.3E.	
2.	Cancel this MSG 200930 UTC Mar 19.	
<b>231. India West Coast – off Mumbai to Gulf of Khambhat.</b>	Charts IN 292 (INT 7021) 293. Crane Vessel Sapura 3000 progressing Sub Sea Wells and Pipe Line replacement activities in area bounded by (A) 19-42.36N 070-56.18E, 19-41.28N 072-09.73E, 18-54.89N 072-20.56E, 18-55.08N 071-46.56E, 18-55.74N 071-01.96E, 19-05.85N 070-55.71E, (B) 18-49.20N 072-09.49E, 18-48.81N 072-28.67E, 17-58.73N 072-27.66E, 17-59.05N 072-08.58E (C) 18-39.62N 070-57.67E, 18-39.55N 071-04.7E, 18-33.3N 071-04.62E, 18-33.51N 070-57.51E (D) 20-37.99N 071-56.7E, 20-37.8N 072-07.22E, 20-03.33N 072-06.53E, 20-03.75N 071-40.63E. Wide berth of over 5 NM requested .	
2.	Cancel NAVAREA VIII MSG 153/19 and this MSG 311830 UTC May 19.	
<b>232. NAVAREA VIII warnings in force as on 15 Mar 2019:-</b>		
	<b>2017 SERIES</b> – 394 493 685 762 814 866	
	<b>2018 SERIES</b> - 222 312 375 428 471 567 661 758 767 815 818 826	
	<b>2019 SERIES</b> – 024 071 088 115 121 127 129 165 169 170 171 174 175 183 199 200 203 205 206 209 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231	
(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 <a href="http://www.hydrobharat.gov.in">www.hydrobharat.gov.in</a>	
2.	Cancel this MSG 221830 UTC Mar 19.	



**SECTION – VI**  
**CORRECTIONS TO SAILING DIRECTIONS (PILOTS)**

**NIL**

**SECTION – VII**  
**CORRECTIONS TO LIST OF LIGHTS**

No	Name & Location	Position (Lat-Long)	Characteristics	Ht. (mts)	Range (miles)	Structure & Height (mts)	Remarks
D6411.2	- Ngqura harbour. E Breakwater. Inner	33 48.59 S 25 41.77 E	FI G 2s	15	7	Metal post 8	G 104°-194°(90°) *
D6832.1	- Ldg Lts 014°58'. Rear. 380m from front. Shela	02 17.84 S 40 54.79 E	FI W 8s	15	8	Red and White GRP column	W244°-064°(180°) MMSI No. 996340015
*	----- *	.. *	AIS *	.. *	.. *	.. *	* *
D7315.85	- - Royal Yachts Dock. E Corner	19 40.78 N 57 42.48 E	Q G	5	3	Galvanised steel beacon 1	*
D7315.96	- - - N Corner	19 41.19 N 57 43.61 E	Q R	5	3	Galvanised steel beacon 1	*
D7742	<b>Ormara</b>	25 11.38 N 64 41.35 E	FI(2)W 20s	227	19	Grey metal framework tower on white base 8	*
F0472	- Bhagva Creek. Entrance. Dandi	21 18.88 N 72 36.86 E	LFI W 10s	25	10	Metal framework tower 26	<i>fl 2.</i> W355°-180° (185°) <b>TE 2019</b> *
F0682	<b>Kadalur Point</b>	11 28.15 N 75 38.24 E	FI W 5s	57	23	White round masonry tower, black bands 34	<i>fl 0.2</i> *
F1526	- South Channel. Peal Beacon	05 22.15 N 100 21.09 E	FI(2)G 5s	10	8	Δ on green beacon	*
F1586	- <b>Pulau Angsa</b>	03 11.18 N 101 13.03 E	FI WR 10s	36	<b>W22 R15</b>	White round concrete tower 11	W 145°-315°(170°), R 315°-145°(190°). Partially obscured 323.5°-010.5° (47°) by Air Obstruction light F R 28m close by. <b>Range 15M (T) 2019</b> *
F1616	- <b>Northbound Route. N</b> Side. Permatang Sedepa (One Fathom Bank)	02 53.31 N 100 59.71 E	FI(4)W 20s	43	23	White round metal tower, red bands on concrete piles. Dome shaped roof at base of tower	ILRS Vol 2 station 79880 *
	----	..	Racon	..	..	..	*
F1619	<b>Tg Gabang</b>	02 40.90 N 101 29.01 E	FI W 4s	28	16	Round concrete tower on piles	*

**SECTION – VIII**  
**CORRECTION TO LIST OF RADIO SIGNALS**

**INP 31(1), 2014**

*(Last correction: Edition No. 15 dated 01 Aug 2018)*

NIL

**INP 31(2), 2014**

*(Last correction: Edition No.04 dated 16 Feb 2019)*

NIL

**NP 31(5), 2017**

*( Last correction: Edition No. 23 dated 1 Dec 2018)*

NIL

**INP 31(6), 2012**

*(Last correction: Edition No. 04 dated 16 Feb 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.

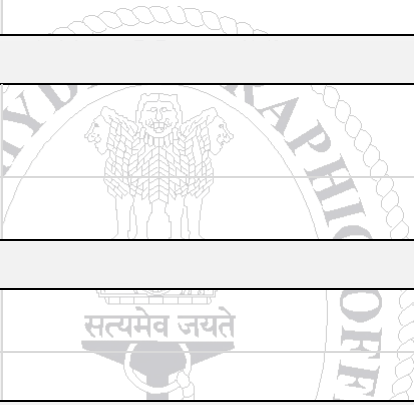



<b>HYDROGRAPHIC NOTE</b>				<b>IH.102 (Revised 2012)</b>	
For Forwarding information for Indian Charts, ENC's and Publications and reporting of ENC related issues					
Date			Ref. Number		
Name of the Ship or Sender					
Address					
Tel/FAX/E-mail address					
Observation Date			Time (UTC/IST)		
Object 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					

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

<b>7. TUGS (Continued)</b>	
Requesting authority	
Availability timing / Communication	
Hiring charges	
<b>8. BERTHING AND WHARVES</b>	
Type & Number of berths available	
Length	
Depth alongside	
Facilities available	
Procedure for requesting berth & hiring charges	
<b>9. CARGO HANDLING</b>	
Containers	
Lighters & Ro-Ro etc.	
<b>10. CRANES</b>	
Brief details of Max. lifting capacity, Height of boom at wharf level and Outreach	
Container handling facilities	
<b>11. BRIDGES</b>	
Vertical clearance	
<b>12. REPAIRS</b>	
Hull machinery and underwater	
Ship and Boat yards	
Docking or Slipway facilities (Size/ Dimensions of vessels handled)	
Hards and Ramps	
Divers / Diving assistance	
<b>13. SERVICES</b>	
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	



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

*To accompany Indian Notice to Mariners 073/19*

*Chart 2099*

SUBMARINE CABLE

Mariners are advised not to anchor or trawl in the vicinity of submarine cables.



**FOR 24 X 7 SAR ASSISTANCE IN INDIAN SRR**

**Email: [indsar@vsnl.net](mailto:indsar@vsnl.net)**

**NATION WIDE SAR TELE: 1554 (LAND LINE)**

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

**AFTN: VABBYXYC**