



INDIAN NOTICES TO MARINERS FOR 2009

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

EDITION No. 10 DATED 16 MAY 2009

(CONTAINS NOTICES 186 TO 202)

REACH US 24 HOURS A DAY



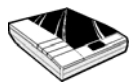
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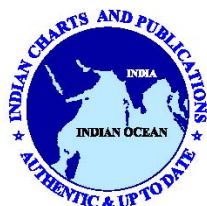
Mariner's Obligation and A Chart Maker's Plea. Observing changes at sea proactively and reporting them promptly to the concerned charting agency, is an obligation that all mariners owe to the entire maritime community towards SOLAS. Mariners are requested to notify the Chief Hydrographer to the Govt. of India at the above mentioned address/fax number/ E mail ID immediately on discovering new or suspected dangers to navigation, changes/defects pertaining to navigational aids, and short comings 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 N to M editions 1, 7, 13 and 19.

**Chief Hydrographer
to the Government of India**

**National Hydrographic Office
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Dehradun 248 001
India**

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For the Indian Ocean Area
INSIST ON INDIAN CHARTS AND
PUBLICATIONS
(Original, Authentic and Most Up-to-date)

EXPLANATORY NOTES

Corrections to Charts and Publications. Section I comprises List of Charts affected by the notices contained in this edition. Where as 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 INT 1 (5020).
- (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. These corrections are not inserted on charts before they are issued to the users. 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 can not 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.

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

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

Correction of Charts and Publications by the users. Notices to Mariners contain important information concerning safety of navigation at sea, hence, they should be used to keep the specified Charts and publications up to date.

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

Use of Global Positioning System (WGS 84) positions.

- (a) The positions of Hydrographic objects shown on most of the Indian charts and publications are in Everest datum. However, the positions of vessels obtained from Global Positioning System (GPS) are on World Geodetic System 1984 datum. There will always exist a difference in the position values obtained by visual fixing (Everest Datum) and GPS position (WGS 84 datum).
- (b) Where ever 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 & 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.

INDIAN CHARTS AND PUBLICATIONS NOW PUBLISHED AND AVAILABLE**(a) NEW INDIAN ELECTRONIC NAVIGATIONAL CHART**

<i>Sl. No.</i>	<i>Cell Name</i>	<i>Chart No.</i>	<i>Title</i>	<i>Publication Date</i>
1	<i>IN62504M</i>	2504	MATHURIN HARBOUR	31-08-2008

(b) NEW EDITION ELECTRONIC NAVIGATIONAL CHARTS

<i>Sl. No.</i>	<i>Cell Name</i>	<i>Chart No.</i>	<i>Title</i>	<i>Publication Date</i>
1	<i>IN62001M</i>	2001	MUMBAI DOCKS	31-12-2008
2	<i>IN52011J</i>	2011	JAIGARH HARBOUR	01-03-2008

(c) ENCs PERMANENTLY WITHDRAWN

<i>Sl. No.</i>	<i>Cell Name</i>	<i>Chart No.</i>	<i>Title</i>	<i>Publication Date</i>
1	<i>IN62001M</i>	2001	MUMBAI DOCKS	01-02-2001
2	<i>IN52011J</i>	2011	JAIGARH HARBOUR	31-12-2003

(d) FORTHCOMING CHARTS

<i>Chart No</i>	<i>Title</i>	<i>Scale</i>	<i>Remarks</i>
2051	SALAYA HARBOUR	25,000	New Chart
2076 (INT 7338)	JAWAHARLAL NEHRU PORT AND TROMBAY	20,000	New Edition
3013 (INT 7422)	HUGLI RIVER-HALDIA TO KUKRAHATTI REACH	37,500	New Chart

AVAILABILITY OF ENCs:

The complete folios of Official Indian ENCs are distributed worldwide through JEPPESEN MARINE (formerly C-MAP) and UKHO. UKHO distributes Indian ENCs through the world wide net work of their agents and distributors. Details of UKHO agents / distributors may be obtained from UKHO web site www.ukho.gov.uk 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:

The Chief Hydrographer to the Government of India National Hydrographic Office 107-A, Rajpur Road Dehradun- 248 001 Tele: +91 135 2747365 Fax: +91 135 2748373 Email: incho@dataone.in Website: www.hydrobharat.nic.in	Director, JEPPESEN MARINE Jeppesen India Pvt. Ltd. 505, Raheja Arcade, Sector-11, CBD Belapur, Navi Mumbai 400 614 Ph: 91 22 65103668 Fax: 91 22 67939504 Email: info@c-map.co.in Website: www.c-map.co.in	United Kingdom Hydrographic Office Admiralty Way, Taunton, Somerset TA1 2DN, UK Tel: +44 (0) 1823 337900 Fax: +44 (0) 1823 330561, 1823 284077 Telex: 46274 Email: helpdesk@ukho.gov.uk Web site: www.ukho.gov.uk
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SECTION – I**List of charts affected by****The Notices 186 to 202 contained in this Edition**

CHART NUMBER	FOLIO NO.	NOTICE NO.
20	1	191
21	2	187, 192, 197(T)
23	4	202(T)
31	5	200(T), 202(T)
32(INT 754)	5	200(T)
33	5	202(T)
41	6	196
202	2	187
204	2	187
212	3	188
249	2	192
250	2	192
252(INT 7325)	2	187
253(INT 7328)	2	197(T)
271	2	187
288	1	191
291	2	187, 192
292(INT 7021)	2	187, 197(T)
353	5	200(T)
354(INT 7408)	5	200(T)
356(INT 7400)	5	200(T)
391	5	200(T)
435	7	194, 195
436	7	193, 194
2011	3	188
2049	2	201(T)
2050	2	201(T)
2078	3	189
2086	1	186
3029	5	198(T)
3035	5	199(T)
4002	6	190
4026	7	194
7073(INT 73)	1	196
7702(INT 702)	1	202(T)
7705(INT 705)	1	187, 192
7706(INT 706)	1	196, 202(T)
7707(INT 707)	1	196, 202(T)


SECTION – II: PERMANENT NOTICES
INDIAN HYDROGRAPHIC CHARTS AND PUBLICATIONS

* 186/(10/09) **INDIAN OCEAN – MAURITUS – Approaches to Port Louis – Submarine cable area. Buoys. Beacon. Jetty.**

Source: UKHO and Mauritius Port Authority

(HJ/632/92)

Chart 2086 [previous update 598/07]

Insert E. limit of Submarine cable area,  joining; 20° 08'.300S., 57° 27'.840E.
20° 09'.670S., 57° 28'.750E.(Shore)

Jetty, firm line, joining; 20° 08'.635S., 57° 29'.250E.(Shore)

(a) 20° 08'.535S., 57° 29'.200E.

and

20° 08'.530S., 57° 29'.125E.

20° 08'.535S., 57° 29'.150E.

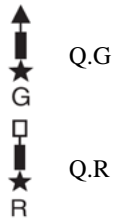
20° 08'.525S., 57° 29'.180E.

(a) above.

20° 08'.535S., 57° 29'.220E.

20° 08'.550S., 57° 29'.250E.

20° 08'.560S., 57° 29'.275E.



Q.G

G

Q

R

R

Q.R

R

Delete



Q.G

G



Q.R

R

20° 08'.692S., 57° 28'.736E.






20° 08'.606S., 57° 28'.885E.

20° 08'.700S., 57° 28'.700E.

20° 08'.555S., 57° 28'.830E.

* 186/(10/09) INDIAN OCEAN – MAURITUS – Approaches to Port Louis – Submarine cable area. Buoys.
Beacon. Jetty.(Continued)

Chart 2086 (Plan – Port Louis) [previous update 598/07]

Insert	E. limit of Submarine cable area,  joining;	20° 08'.300S., 57° 27'.840E. 20° 09'.670S., 57° 28'.750E.(Shore)
	Jetty, firm line, joining;	20° 08'.635S., 57° 29'.250E.(Shore)
	(a)	20° 08'.535S., 57° 29'.200E.
	and	20° 08'.530S., 57° 29'.125E.
		20° 08'.535S., 57° 29'.150E.
		20° 08'.525S., 57° 29'.180E.
	(a) above.	20° 08'.535S., 57° 29'.220E.
		20° 08'.550S., 57° 29'.250E.
		20° 08'.560S., 57° 29'.275E.
	Legend, "Oil Jetty" centered on;	20° 08'.600S., 57° 29'.150E.
	 Y	20° 08'.305S., 57° 29'.615E.
	 Q.G	20° 08'.692S., 57° 28'.736E.
	 Q.R	20° 08'.606S., 57° 28'.885E.
	 Fl(2).R.6s No.8	20° 08'.262S., 57° 29'.363E.
Amend	Buoy to, Fl.G.3s No1	20° 08'.460S., 57° 28'.860E.
	Buoy to, Fl.R.3s No2	20° 08'.260S., 57° 28'.910E.
	Buoy to, Oc.G.4s No3	20° 08'.500S., 57° 29'.040E.
	Buoy to, Fl(3).R.10s No4	20° 08'.300S., 57° 29'.090E.
	Light to, Fl.G No5	20° 08'.570S., 57° 29'.360E.
	Buoy to, Fl(2).R.7s No6	20° 08'.340S., 57° 29'.270E.

*** 186/(10/09) INDIAN OCEAN – MAURITUS – Approaches to Port Louis – Submarine cable area. Buoys. Beacon. Jetty.(Continued)**

Amend	Buoy to, Fl(2).R.7s No10	20° 08' .250S., 57° 29' .490E.
	Light to, F.R No12	20° 08' .410S., 57° 29' .630E.
	Buoy to, Oc.1.5s No13	20° 08' .300S., 57° 29' .560E.
	Buoy to, Oc.4s No14	20° 08' .250S., 57° 29' .680E.
Delete	Buoy, Oc.G.15s	20° 08' .540S., 57° 29' .220E.
	 Q.G	20° 08' .700S., 57° 28' .700E.
	 Q.R	20° 08' .555S., 57° 28' .830E.

***187/(10/09) INDIA – WEST COAST – Jakhau to Dwarka – Wrecks.**

Source: INS Sarveshak ROS A(N) -243

(HJ/1131/21)

Chart 21 [previous update 135/09]

Delete  PA 22° 06' .4N, 68° 57' .7E.

Chart 291 [previous update 138/09]

Insert  PA 22° 08' .4N, 68° 55' .4E.

Delete  PA 22° 06' .4N, 68° 57' .7E.

Chart 292(INT 7021) [previous update 170/09]

Insert  PA 22° 08' .4N, 68° 55' .4E.

Delete  PA 22° 06' .4N, 68° 57' .7E.

Chart 271 [previous update 599/08]

Insert  PA 22° 08' .4N, 68° 55' .4E.

Delete  PA 22° 06' .4N, 68° 57' .7E.

Chart 252(INT 7325) [previous update 139/09]

Insert  PA 22° 08' .4N, 68° 55' .4E.

Delete  PA 22° 06' .4N, 68° 57' .7E.

187/(10/09) INDIA – WEST COAST – Jakhau to Dwarka – Wrecks.(Continued)*Chart 202** [previous update 138/09]

Insert		PA	22° 08' .4N, 68° 55' .4E.
Delete		PA	22° 06' .4N, 68° 57' .7E.

Chart 204 [previous update 139/09]

Insert		PA	22° 08' .4N, 68° 55' .4E.
Delete		PA	22° 06' .4N, 68° 57' .7E.

Chart 7705(INT 705) [previous update 052/09]

Delete			22° 06' .4N, 68° 57' .7E.
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



*** 188/(10/09) INDIA – WEST COAST – Port Dabhol – Anchorage Area. Buoys.**

Source: C (P) – 505
(HJ/1030/76)

Chart 212 [previous update 482/08]

Delete		Fl.5s	17° 34' .54N, 73° 07' .89E.
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Chart 2011 [previous update 340/08]

Insert			17° 34' .50N, 73° 06' .50E.
		Fairway Buoy	17° 34' .50N, 73° 03' .20E.
		Fl.5s	17° 34' .17N, 73° 04' .43E.
			17° 34' .15N, 73° 07' .87E.
Delete			17° 34' .70N, 73° 09' .65E.
		F.R (Oct to May)	17° 34' .78N, 73° 09' .97E.
			17° 34' .83N, 73° 10' .06E.
			17° 34' .57N, 73° 09' .75E.
		Fl.5s	17° 34' .59N, 73° 07' .85E.

*** 189/(10/09) INDIA – WEST COAST – Port of Mormugoa – Buoy.**

Source: Hydrographic Note, INS Investigator
(HJ/1030/56)

Chart 2078 [previous update 037/09]

Delete		Fl.Am.2s	15° 24' .86N, 73° 46' .18E.
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* **190/(10/09) INDIA – ANDAMAN ISLANDS – Approaches to Port Meadows and Kotara Anchorage – Jetty.**

Source: Hydrographic Note, INS Darshak
(HJ/1028/27)

Chart 4002 [previous update 561/08]

Delete Jetty, firm line, joining;

12° 00′.46N, 92° 45′.78E. (Shore)

12° 00′.46N, 92° 45′.75E.

12° 00′.45N, 92° 45′.75E.

191/(10/09) ARABIA - Khawr al Kafka - Buoy.

Source: BA Notice 2429/09


(HJ/1133/90)

Chart 20 [previous update 150/09] COMPATIBLE WITH WGS84 DATUM

Insert  Q

29° 20′.7N., 49° 02′.5E.

Chart 288 [previous update 164/09] WGS84 DATUM

Insert  Q

29° 20′.7N., 49° 02′.5E.

192/(10/09) PAKISTAN -Karachi South-westwards - Wrecks.

Source: BA Notice 2092/09

(HJ/1131/43)

Chart 21 [previous update 187/09](WGS 84 DATUM)

Insert 

(a) 24° 23′.9N., 66° 12′.2E.

Delete  Wk, adjacent to;

(a) above

Chart 291 [previous update 187/09](WGS 84 DATUM)

Insert 

(a) 24° 23′.9N., 66° 12′.2E.

Delete  Wk, adjacent to;

(a) above

Chart 249 [previous update 168/09](WGS 84 DATUM)

Insert 

24° 23′.9N., 66° 12′.2E.

Chart 250 [previous update 180/09] (WGS 84 DATUM)

Insert 

24° 23′.9N., 66° 12′.2E.

Chart 7705(INT 705) [previous update 187/09] (COMPATIBLE WITH WGS 84 DATUM)

Insert 

24° 24′.0N., 66° 12′.0E.

193/(10/09) MALAYSIA - Peninsular Malaysia, West Coast - P. Jarak Westwards -Obstruction.

Source: BA Notice 2282/09

(HJ/928/30)

Chart 436 [previous update 054/09] REVISED KERTAU DATUM

Insert  *Explos* 3° 57'·87N., 99° 44'·46E.

194/(10/09) MALAYSIA - Peninsular Malaysia, West Coast - Pulau Pinang Northwards - North Channel - Dredged depth.

Source: BA Notice 2374/09

(HJ/927/59)

Chart 435 [previous update 182/09] REVISED KERTAU DATUM

Amend legend to, *Dredged to 10·0m*, centred on: 5° 32'·3N., 100° 16'·8E.

Chart 436 [previous update 193/09] REVISED KERTAU DATUM

Amend legend to, *Dredged to 10·0m*, centred on: 5° 32'·3N., 100° 17'·4E.

Chart 4026 [previous update 181/09] REVISED KERTAU DATUM

Amend legend to, *Dredged to 10·0m*, centred on: 5° 33'·36N., 100° 15'·80E.

195/(10/09) MALAYSIA - Peninsular Malaysia, West Coast - Kuala Kedah and Kuala Perlis Westwards and Southwards - Depths. Light. Buoy.

Source: BA Notice 2375/09

(HJ/927/69)

Chart 435 [previous update 194/09] REVISED KERTAU DATUM

Insert depth 3₂ and extend 5m contour W to enclose (a) 6° 05'·25N., 100° 14'·61E.

Amend range of light to, 8M 6° 19'·95N., 100° 09'·50E.

Delete depth 6₄, adjacent to: (a)above



Fl.R.2s

6° 22'·95N., 100° 03'·50E.

196/(10/09) MALACCA STRAIT - Pulau Perak Westwards - Depths.

Source: BA Notice 2379/09

*(HJ/928/51)***Chart 41** [*previous update 149/09*] UNDETERMINED DATUM

Insert depth 59 5° 37'·7N., 98° 13'·0E.

Chart 7073(INT 73) [*previous update 094/09*] COMPATIBLE WITH WGS84 DATUM

Insert depth 59 (a) 5° 37'·7N., 98° 13'·0E.

Delete depth 84, close NE of: (a)above

Chart 7706(INT 706) [*previous update 052/09*] COMPATIBLE WITH WGS84 DATUM

Insert depth 59 5° 37'·7N., 98° 13'·0E.

Chart 7707(INT 707) [*previous update 052/09*] COMPATIBLE WITH WGS84 DATUM

Insert depth 59 5° 37'·7N., 98° 13'·0E.

SECTION – III: TEMPORARY AND PRELIMINARY NOTICES

***197(T)/(10/09) INDIA – WEST COAST – Veraval to Pipavav – Seismic Survey.**

Source: NAVAREA VIII Warnings 230/09.

(HJ/1131/00)

1. Seismic Survey is in progress by RV Sagar Sandhani from 08 Dec to 30 Jun 09 in area bounded by:
 - (a) 20°32'.00N 069°00'.00E
 - (b) 20°32'.00N 069°35'.00E
 - (c) 20°11'.00N 069°35'.00E
 - (d) 20°11'.00N 069°00'.00E
2. Vessel towing two seismic cables of length 5000 meters each with green and yellow buoys with flashing light to mark the tail end of each cable.
3. All vessels operating in vicinity are to maintain a clearance of 06 nm all around the vessel and exercise caution.
4. *Cancel this notice on 01 Jul 2009.*
5. *Former Notice 639(T)/08 is cancelled.*

Charts affected – 21 - 292(INT 7021) – 253(INT 7328).

***198(T)/(10/09) INDIA – EAST COAST – Approaches to Tirukkadaiyur Port – Buoy.**

Source: PPN Power Generating Company Pvt. Ltd. Tamilnadu

(HJ/1030/10)

1. The discharge cooling water pipeline marker buoy is re-installed at position 11°04'.40N 079°51'.68E.
2. *Former Notice 640(T)/08 is cancelled.*

Charts affected – 3029.

***199(T)/(10/09) INDIA – EAST COAST – Gangavaram Port – Data Buoy.**

Source: Gangavaram Port Limited

(HJ/1029/76)

1. A orange colour spherical wave rider buoy Fl(5).Y.20s , with light range of 0.59 NM, deployed in position 17°38'.0N., 083°15'.9E for a duration of three (03) years w.e.f. 11 May 09.
2. All vessels are advised not to navigate in the vicinity and to keep clear of the buoy at least 500m.

Charts affected – 3035.

***200(T)/(10/09) INDIA – EAST COAST – Bay of Bengal – Chennai to Kalingapatnam - Underwater Moorings.**

Source: NIO Goa and NAVAREA VIII Warnings 233/09.

(HJ/1029/59)

1. Seven underwater moorings consisting of an upward looking Acoustic Doppler Current Profiler (ADCP) for measuring the current laid in the following positions:

Sl.	Mooring	Position		Depth of ADCP(m)	Charts Affected
		Latitude	Longitude		
01.	BORS-1	15-00.56N	080-20.15E	92	31- 32(INT 754) – 391 – 356(INT 7400).
02.	BORD-1	14-59.80N	080-33.14E	303	31- 32(INT 754) – 391 – 356(INT 7400).
03.	BVKD-1	16-50.22N	082-58.92E	321	31- 32(INT 754) – 391 – 354(INT 7408).
04.	BVKS-1	17-02.55N	082-48.39E	92.5	31- 32(INT 754) – 391 – 354(INT 7408).
05.	BOGD-1	18-51.45N	085-26.05E	290	31 – 353.
06.	BOGS-1	19-00.20N	085-03.50E	91.5	31 – 353.
07.	BNBD-1	18-59.93N	088-59.85E	298	31.

2. All vessels operating in vicinity are to maintain a safe distance from moorings and exercise caution.

201(T)/(10/09) PAKISTAN - Karachi Harbour - Lower Harbour Eastwards - Works.

Source: BA Notice 2277(T)/09

(HJ/1131/53)

1. Dredging and reclamation works are in progress within an area bounded by the following positions.

24° 47'·30N., 66° 59'·30E.

24° 48'·60N., 66° 58'·60E.

24° 48'·90N., 66° 59'·20E.

24° 48'·70N., 67° 00'·50E.

24° 48'·10N., 67° 00'·40E.

24° 47'·60N., 67° 00'·00E.

2. Mariners should navigate with caution and consult the local authorities for the latest information.

Charts affected – 2049 – 2050.

202(T)/(10/09) INDIAN OCEAN - Data buoys.

Source: BA Notice 2501(T)/09

(HJ/1028/59)

1. The National Oceanic and Atmospheric Administration (NOAA) maintains an array of buoys called Autonomous Temperature Line Acquisition system (ATLAS) in the Indian Ocean.
2. The ATLAS buoys, orange and white bands, *Q*(2-3 metre toroid buoy), which make up the array are located in the following positions (WGS84 Datum):

*15° 00′.0N., 90° 01′.2E.

*11° 56′.4N., 89° 54′.6E.

8° 01′.2N., 89° 00′.6E.

3° 58′.8N., 89° 35′.4E.

* 1° 34′.8N., 80° 28′.8E.

1° 34′.2N., 90° 05′.4E.

*0° 04′.8N., 80° 31′.2E.

0° 02′.4N., 89° 49′.2E.

*1° 31′.2S., 80° 30′.0E.

*7° 54′.0S., 55° 06′.0E.

*7° 59′.4S., 80° 28′.2E.

*8° 02′.4S., 66° 59′.4E.

*12° 03′.0S., 54° 58′.8E.

* Indicates new or revised entry

3. Mariners are advised to give all moorings a 5 nautical mile wide berth.

4. ***Former Notice 332(P)/08 is cancelled.***

Charts affected – 23 – 31 – 33 – 7702(INT 702) - 7706(INT 706) - 7707(INT 707).

SECTION – IV: MARINE INFORMATION

MUMBAI NAVTEX COAST STATION

MSI Promulgation by Mumbai NAVTEX Coast Station position 19° 05'00 N, 072° 50'00 E is closed for maintenance.

(Source - NAVAREA VIII Warning 305/08)

Distribution of Indian Paper Charts and Nautical Publications

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

<p>*JEPPESEN MARINE Jeppesen India Pvt. Ltd. 505, Raheja Arcade, Sector-11, CBD Belapur, Navi Mumbai 400 614 Ph: 91 22 65103668 Fax: 91 22 67939504 Email: info@c-map.co.in</p>	<p>*JEPPESEN MARINE Jeppesen Norway AS P.O. 212, N-4379, Egersund, Norway Ph: 0047 51 464700 Fax: 0047 51 464701 Email: info@c-map.no Site: www.c-map.no</p>	<p>C-Map US Commercial 133 Falmouth Road, Building 2, Postal Code: 02649, Mashpee, MA, America Ph: +1 (508) 477 8010 Fax: +1 (508) 539 4381 Email: info@c-map.com</p>
<p>C-Map (UK) Ltd. Systems House Delta Business Park Salterns Lane, Fareham, PO16 0QS, United Kingdom, Ph: +44 (0) 1329 517777 Fax: +44 (0) 1329 517778 Email: info@c-map.co.uk</p>	<p>Mari-Sys Pte Ltd. 20 Ayer Rajah Crescent, 08-21, SE 139964, Republic of Singapore Ph: +65 6776 1898 Email: info@mari-sys.com</p>	<p>Bogerd Martin NV, Oude Leeuwenrui 37 2000 Antwerp, Belgium Ph: +32 (3) 2134170 Fax: +32 (3) 2326167 Email: sales@martin.be Site: www.martin.be</p>
<p>Bogerd Martin Tianjin(China Branch) 2-B101 FTZ Hi-Tech Development Centre 131 Haibin 9 Road 300461 Tianjin China Ph: +86 22 257 62 721 Fax: +86 22 257 62 722 Email: charts-tj@martincn.com</p>	<p>C-Map Holland Paleiskade100 PO Box 7 1781 AR Den Helder, Holland Ph: +31 223 616 700 E Mail: CorMallie cor@chartworx.nl</p>	
<p>* Indicates C Map Norway AS has changed name to Jeppesen Marine Norway AS. Indicates C Map India has changed name to Jeppesen India.</p>		

TSUNAMI NOTICE

Major changes likely to have occurred in topography of coastline and bathymetry in Andaman & Nicobar islands, coasts of Andhra Pradesh, Tamilnadu, Kerala, Maldives and Srilanka as a consequence of recent earthquakes followed by Tsunami waves in South Asia. Number of uncharted wrecks/obstructions may also be encountered. Mariners are advised to exercise utmost caution and contact local authorities while approaching these areas.

SECTION – V: RADIO NAVIGATIONAL WARNINGS IN FORCE

1. For details of NAVAREA limits and organization/ coordination, please refer to Notice No. 12 of the Special edition of Indian Notice to Mariners – 2008.
2. **NAVAREA Warnings in force:** - The serial numbers of all the NAVAREA warnings in force as on 14 May 09, covering the entire world are listed below against the respective NAVAREA.

<u>NAVAREA No.</u>	<u>LOCATION</u>	<u>LAST NAVAREA</u>	<u>NAVAREA IN FORCE</u>
I	N.E. Atlantic	112	2007 Series: 019. 2008 Series: 341 377 387 . 2009 Series: 055 077 080 083 086 089 091 093 096 103 104 105 107 110 112.
II	E. Atlantic	116	2009 Series: 007 030 058 073 102 104 105 106 107 110 111 113 114 115 116.
III	Mediterranean	203	2008 Series: 412 512. 2009 Series: 051 145 147 149 154 155 161 164 165 166 170 173 174 176 184 186 189 193 194 195 196 200 201 202 203.
IV	N.W. Atlantic	162	2009 Series: 135.
V	W. Atlantic	973	2009 Series: 876
VI	S.W. Atlantic	141	2009 Series: Nil.
VII	S.E. Atlantic	099	2009 Series: 028 059 082 088 090 096 097 098.
VIII	Indian Ocean	247	2009 Series: - 120 164 179 180 181 182 187 191 193 199 208 218 220 226 227 228 229 230 231 232 233 234 237 238 239 240 241 242 243 244 245 246 247

3. NAVAREA Warnings issued during the period from 30 Apr 09 to 14 May 09 (both dates inclusive) are as tabulated below:-

220.	India West Coast-Narmada Bank. Charts 21 207 254 292 INT 705. Wooden fishing boat Ram Prasad length 32 feet sunk in approximate position 20-42.00N., 072-07.50E due to flooding with 05 crew missing since 280230 UTC.
2.	All vessels operating in vicinity to keep sharp lookout render assistance and exercise caution.
221.	Cancelled.
222.	Cancelled.
223.	Cancelled.
224.	Cancelled.
225.	Cancelled.

226. Cancel NAVAREA VIII messages 172 194 195 196 197 211 212 213 and 214 of 2009. India West Coast – Arabian Sea. Charts 21 22 202 207 209 211 251 254 253 255 271 291 292 293 INT 705 INT 706. Present position of Oil Rigs / Drill Ships as follows:

ABAN II	20-06.65N	072-04.05E
ABAN III	19-25.13N	071-21.11E
ABAN IV	18-40.36N	072-21.46E
ABAN V	18-48.40N	072-20.00E
BADRINATH	18-36.36N	071-21.93E
CE THROTON	19-20.48N	072-12.11E
DISCOVERY 1	20-20.16N	072-01.35E
ENERGY DRILLER	10-00.03N	075-38.85E
FG McCLINTOCK	17-45.38N	072-31.43E
GREATDRILL CHETNA	20-32.30N	072-08.88E
JT ANGEL	18-34.95N	072-14.45E
KEDARNATH	20-43.31N	072-38.81E
NOBLE GEORGE McLEOD	18-39.66N	072-13.33E
NOBLE CHARLIE YESTER	19-27.50N	071-22.93E
NOBLE ED HOLT	18-33.63N	072-14.93E
PRIDE HAWAI	20-05.31N	071-52.50E
PRIDE PENNSYLVANIA	19-32.00N	071-19.16E
RANDOLPH YOST	18-29.85N	072-15.00E
RON TAPPMAYER	19-12.00N	072-11.00E
SAGAR GAURAV	19-28.60N	071-12.63E
SAGAR JYOTI	19-36.61N	071-22.90E
SAGAR KIRAN	19-24.05N	071-19.05E
SAGAR LAXMI	18-36.15N	071-01.63E
SAGAR PRAGATI	19-38.26N	071-19.93E
SAGAR SAMRAT	19-32.13N	071-18.81E
SAGAR SHAKTI	19-32.65N	071-21.35E
SAGAR UDAY	19-21.96N	071-19.56E
TRIDENT – 2	18-37.23N	072-14.93E
TRIDENT – 12	18-29.05N	072-15.15E
VIRTUE 1	19-25.35N	071-19.55E
ENSCO 53	19-22.38N	072-00.60E

2. Wide berth requested.

227. Cancel NAVAREA VIII Messages 173 204 and 219 of 2009. India East Coast– Bay of Bengal. Charts 31 32 33 301 351 352 353 354 355 356 357 3009 INT 706. Present position of Oil Rigs / Drill Ships as follows:

HERCULES 260	16-19.30N	081-47.00E
DISCOVERER 534	16-09.30N	082-31.10E
SAGAR VIJAY	16-35.70N	082-27.30E
HERCULES 258	16-40.90N	082-24.00E
ATWOOD BEACON	16-40.90N	082-28.60E
DEEP WATER FRONTIER	16-33.00N	082-31.00E
PERRO NEGRO III	16-40.10N	082-25.70E
DISCOVERER SEVEN SEAS	16-03.90N	081-44.30E
DEEPWATER EXPEDITION	16-01.30N	082-47.10E
DEEP SEA MATDRILL	16-22.10N	081-57.80E
ACTINIA	15-22.00N	080-42.00E
ESSAR WILD CAT	16-42.30N	082-32.20E
SAGAR BHUSHAN	16-15.60N	082-11.20E
SAGAR RATNA	17-40.50N	083-25.00E

2. Wide berth requested.

<p>228. India East Coast - Gopalpur. Charts 31 352 353 3005 INT 706. Firing exercise will be carried out from 2330 UTC to 1800 UTC on 12 May to 14 May 2009.</p>		
<p>2. Danger area bounded by:</p>		
(a)	19-14.60N 084-53.70E	(b) 19-37.05N 085-27.85E
(c)	18-46.05N 085-22.86E	
<p>and arc of 42 nm radius joining point (b) and (c).</p>		
<p>3. Safe flying height 6100 metres.</p>		
<p>4. Cancel this message on 15 May 2009.</p>		
<p>229. India East Coast – Bay of Bengal. Charts 32 33 357 INT 706. Drilling operation is in progress by rig Deep Driller- 8 in position 11-30.20N., 079-56.10E.</p>		
<p>2. Wide berth requested.</p>		
<p>230. India West Coast – Arabian Sea. Charts 21 253 292 INT 705. Seismic survey is in progress by Sagar Sandhani till 30 Jun 2009 in area bounded by:</p>		
(a)	20-32.00N 069-00.00E	(b) 20-32.00N 069-35.00E
(c)	20-11.00N 069-35.00E	(d) 20-11.00N 069-00.00E
<p>2. Vessel is towing two seismic cables of length 5000 metres each with green and yellow buoys with flashing light to mark the tail end of each cable.</p>		
<p>3. All vessels operating in vicinity are to maintain a clearance of 06 NM all around the vessel and exercise caution.</p>		
<p>4. Cancel this message on 01 Jul 2009.</p>		
<p>231. India West Coast - Kochi. Charts 22 32 220 259 260 2004 2029 2045 INT 706. Firing exercise by Naval Coast Battery from 0900 UTC to 1200 UTC and 1230 UTC to 1430 UTC on 15 May 2009. Danger area bounded by:</p>		
(a)	09-57.50N 075-59.50E	(b) 09-57.70N 076-14.20E
(c)	09-44.00N 076-17.50E	(d) 09-42.50N 076-09.50E
<p>2. Safe flying height 10000 meters.</p>		
<p>3. Cancel this message on 16 May 2009.</p>		
<p>232. India East Coast – Bay of Bengal. Charts 31 32 356 INT 706. Seismic survey in progress by Ramform Explorer till 11 Jun 2009 in area bounded by:</p>		
(a)	14-16.50N 080-33.50E	(b) 14-23.00N 080-52.00E
(c)	13-15.00N 081-17.55E	(d) 13-08.50N 080-59.00E
<p>2. Vessel towing 8 in number 8100 meters long streamer cable each attached to yellow coloured tail buoy with white flashing light and radar reflector.</p>		
<p>3. All vessels operating in vicinity are to give wide berth of 06 NM all around the vessel and exercise caution.</p>		
<p>4. Cancel this message on 12 Jun 2009.</p>		
<p>233. India East Coast- Bay of Bengal. Charts 31 353 354 356 INT 706. Seven underwater moorings consisting of an upward looking Acoustic Doppler Current Profiler (ADCP) for measuring the current laid in the following positions:</p>		
Mooring	Position	
BORS-1	15-00.56N	080-20.15E
BORD-1	14-59.80N	080-33.13E
BVKD-1	16-50.22N	082-58.92E
BVKS-1	17-02.55N	082-48.39E
BOGD-1	18-51.45N	085-26.05E
BOGS-1	19-00.19N	085-03.50E
BNBD-1	18-59.93N	088-59.85E
<p>2. All vessels operating in vicinity are to maintain a safe distance from moorings and exercise caution.</p>		

<p>234. India West Coast – Mormugao. Charts 22 257 INT 705 INT 706. Firing practice by Naval Aircraft between 0230 UTC to 1230 UTC from 14 May to 21 May 2009. Danger area bounded by:</p> <table> <tr> <td>(a)</td> <td>15-13.0N</td> <td>073-57.0E</td> <td>(b)</td> <td>15-13.0N</td> <td>073-52.0E</td> </tr> <tr> <td>(c)</td> <td>15-11.0N</td> <td>073-57.0E</td> <td>(d)</td> <td>15-11.0N</td> <td>073-52.0E</td> </tr> </table> <p>2. Safe flying height 3500 metres.</p> <p>3. Cancel this message on 22 May 2009.</p>	(a)	15-13.0N	073-57.0E	(b)	15-13.0N	073-52.0E	(c)	15-11.0N	073-57.0E	(d)	15-11.0N	073-52.0E
(a)	15-13.0N	073-57.0E	(b)	15-13.0N	073-52.0E							
(c)	15-11.0N	073-57.0E	(d)	15-11.0N	073-52.0E							
<p>235. Cancelled.</p>												
<p>236. Cancelled.</p>												
<p>237. India East Coast – Bay of Bengal. Charts 31 354 INT 706. Seismic survey will be carried out by vessel Geco Topaz from 11 May to 20 May 2009 in area bounded by:</p> <table> <tr> <td>(a)</td> <td>16-22.0N</td> <td>084-26.0E</td> <td>(b)</td> <td>016-22.0N</td> <td>084-39.0E</td> </tr> <tr> <td>(c)</td> <td>17-12.0N</td> <td>085-08.0E</td> <td>(d)</td> <td>017-33.0N</td> <td>085-08.0E</td> </tr> </table> <p>2. Vessel towing 06 cables of 9000 m long attached to a yellow tail buoy with flashing strobe light at end of cable.</p> <p>3. All vessels operating in vicinity to give 06 NM clearance and exercise caution.</p> <p>4. Cancel this message on 21 May 2009.</p>	(a)	16-22.0N	084-26.0E	(b)	016-22.0N	084-39.0E	(c)	17-12.0N	085-08.0E	(d)	017-33.0N	085-08.0E
(a)	16-22.0N	084-26.0E	(b)	016-22.0N	084-39.0E							
(c)	17-12.0N	085-08.0E	(d)	017-33.0N	085-08.0E							
<p>238. India West Coast – Arabian Sea. Charts 22 211 255 292 INT 705. Seismic survey will be carried out by Geowave Commander from 13 May to 31 May 2009 in area bounded by:</p> <table> <tr> <td>(a)</td> <td>18-56.00N</td> <td>071-58.00E</td> <td>(b)</td> <td>18-56.00N</td> <td>072-21.50E</td> </tr> <tr> <td>(c)</td> <td>18-49.30N</td> <td>071-58.00E</td> <td>(d)</td> <td>18-49.30N</td> <td>072-21.50E</td> </tr> </table> <p>2. The vessel is towing six seismic streamer of 6000 metres length the cable are just below the surface at 08 metres depth. the trailing end are attached to tail buoys with radar reflector and flashing white lights spread over a width of approx 700 metres.</p> <p>3. All vessels operating in the area are to maintain a clearance of 05 NM all around the vessel and exercise caution</p> <p>4. (a) Keep listening watch on VHF channel 06 for safety message giving navigational warning on the specialised operation conducted by vessel geowave commander from 13 May to 31 May 2009 at an interval of 01 hour.</p> <p>(b) Vessel Geowave Commander will also warn the shipping by some signaling appliances of Morse code light if the shipping gets closed to clearance distance.</p> <p>(c) The chase boats guarding the vessel and the streamers shall also direct the shipping to keep clear of the vessel and streamers.</p> <p>(d) In the event of any clarifications of the operation of seismic survey vessel the mariner are advised to contact MRCC/DG COM CENTRE.</p> <p>5. Cancel this message on 01 Jun 2009.</p>	(a)	18-56.00N	071-58.00E	(b)	18-56.00N	072-21.50E	(c)	18-49.30N	071-58.00E	(d)	18-49.30N	072-21.50E
(a)	18-56.00N	071-58.00E	(b)	18-56.00N	072-21.50E							
(c)	18-49.30N	071-58.00E	(d)	18-49.30N	072-21.50E							
<p>239. India West Coast – Off Karwar. Charts 22 215 216 257 293 2008 INT 705. Barge Mahalakshmi with MT Iron Ore sunk in position 14-48.27N., 074-03.87E.</p> <p>2. Mariners to exercise caution.</p>												
<p>240. India West Coast - Kochi. Charts 22 32 220 259 260 2004 2029 2045 INT 706. Firing exercise by Naval Coast Battery from 0900 UTC to 1200 UTC on 19 may 2009. Danger area bounded by:</p> <table> <tr> <td>(a)</td> <td>09-57.50N</td> <td>075-59.50E</td> <td>(b)</td> <td>09-57.70N</td> <td>076-14.20E</td> </tr> <tr> <td>(c)</td> <td>09-44.00N</td> <td>076-17.50E</td> <td>(d)</td> <td>09-42.50N</td> <td>076-09.50E</td> </tr> </table> <p>2. Safe flying height 10000 meters.</p> <p>3. Cancel this message on 20 May 2009.</p>	(a)	09-57.50N	075-59.50E	(b)	09-57.70N	076-14.20E	(c)	09-44.00N	076-17.50E	(d)	09-42.50N	076-09.50E
(a)	09-57.50N	075-59.50E	(b)	09-57.70N	076-14.20E							
(c)	09-44.00N	076-17.50E	(d)	09-42.50N	076-09.50E							

<p>241. India East Coast- Bay of Bengal. Charts 31 33 351 352 INT 71 INT 706. Experimental Flight Vehicle launching scheduled from ITR launch complex between 0430 UTC to 1030 UTC from 19 May to 20 May 2009.</p> <p>2. Danger zone:</p> <p>(a) Sector O1- L1-R2-O2-L2- R1 bounded by following points</p> <table> <tbody> <tr> <td>(O1)</td> <td>20-46.34N</td> <td>087-05.37E</td> <td>(L1)</td> <td>20-27.56N</td> <td>087-18.66E</td> </tr> <tr> <td>(R2)</td> <td>03-18.73N</td> <td>085-27.55E</td> <td>(O2)</td> <td>02-45.33N</td> <td>088-47.11E</td> </tr> <tr> <td>(L2)</td> <td>03-47.91N</td> <td>091-34.16E</td> <td>(R1)</td> <td>20-26.60N</td> <td>088-55.55E</td> </tr> </tbody> </table> <p>(b) A circular zone of 06 km radius around point O1.</p> <p>3. No over flight and shipping activity is permissible within the above mentioned sector.</p> <p>4. Cancel this message on 21 May 2009.</p>	(O1)	20-46.34N	087-05.37E	(L1)	20-27.56N	087-18.66E	(R2)	03-18.73N	085-27.55E	(O2)	02-45.33N	088-47.11E	(L2)	03-47.91N	091-34.16E	(R1)	20-26.60N	088-55.55E
(O1)	20-46.34N	087-05.37E	(L1)	20-27.56N	087-18.66E													
(R2)	03-18.73N	085-27.55E	(O2)	02-45.33N	088-47.11E													
(L2)	03-47.91N	091-34.16E	(R1)	20-26.60N	088-55.55E													
<p>242. India East Coast- Visakhapatnam. Charts 31 32 308 354 3002 3012 INT 706. Seaward firing exercise by Naval Coast Battery from 0001 UTC to 0200 UTC and from 1500 UTC to 1700 UTC on 20 May 2009. Danger area bounded by:</p> <table> <tbody> <tr> <td>(a)</td> <td>17-42.0N</td> <td>083-18.0E</td> <td>(b)</td> <td>17-47.0N</td> <td>083-32.0E</td> </tr> <tr> <td>(c)</td> <td>17-34.0N</td> <td>083-30.0E</td> <td>(d)</td> <td>17-28.0N</td> <td>083-18.0E</td> </tr> </tbody> </table> <p>2. Safe flying height 13000 metres.</p> <p>3. Cancel this message on 21 May 2009.</p>	(a)	17-42.0N	083-18.0E	(b)	17-47.0N	083-32.0E	(c)	17-34.0N	083-30.0E	(d)	17-28.0N	083-18.0E						
(a)	17-42.0N	083-18.0E	(b)	17-47.0N	083-32.0E													
(c)	17-34.0N	083-30.0E	(d)	17-28.0N	083-18.0E													
<p>243. India East Coast - Gopalpur. Charts 31 352 353 3005 INT 706. Firing exercise will be carried out from 2330 UTC to 1800 UTC on 20 May to 22 May 2009.</p> <p>2. Danger area bounded by</p> <table> <tbody> <tr> <td>(a)</td> <td>19-14.60N</td> <td>084-53.70E</td> <td>(b)</td> <td>19-37.05N</td> <td>085-27.85E</td> </tr> <tr> <td>(c)</td> <td>18-46.05N</td> <td>085-22.86E</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>and arc of 42 nm radius joining point (b) and (c).</p> <p>3. Safe flying height 6100 metres.</p> <p>4. Cancel this message on 23 May 2009.</p>	(a)	19-14.60N	084-53.70E	(b)	19-37.05N	085-27.85E	(c)	18-46.05N	085-22.86E									
(a)	19-14.60N	084-53.70E	(b)	19-37.05N	085-27.85E													
(c)	18-46.05N	085-22.86E																
<p>244. India West Coast – Ambai. Chart 22 215 216 257 293 2009 INT 705. Surface and underwater demolition exercise will be conducted from 17 May to 21 May in area bounded by:</p> <table> <tbody> <tr> <td>(a)</td> <td>14-43.9N</td> <td>074-12.7E</td> <td>(b)</td> <td>14-44.2N</td> <td>074-12.4E</td> </tr> <tr> <td>(c)</td> <td>14-43.9N</td> <td>074-12.2E</td> <td>(d)</td> <td>14-43.7N</td> <td>074-12.4E</td> </tr> </tbody> </table> <p>2. Mariners to exercise caution.</p> <p>3. Cancel this message on 22 May 2009.</p>	(a)	14-43.9N	074-12.7E	(b)	14-44.2N	074-12.4E	(c)	14-43.9N	074-12.2E	(d)	14-43.7N	074-12.4E						
(a)	14-43.9N	074-12.7E	(b)	14-44.2N	074-12.4E													
(c)	14-43.9N	074-12.2E	(d)	14-43.7N	074-12.4E													
<p>245. India West Coast – Approaches to Mormugao. Charts 22 214 215 257 293 2022 INT 705. One marker buoy marking perimeter of acoustic range broken away from mooring and adrift from actual position 15-18.54 N 073-41.51E.</p> <p>2. Mariners to exercise caution.</p>																		
<p>246. Andaman Sea – India Andaman Islands. Charts 41 405 473 4030 INT 706. Firing practice by Naval Ships on two meter rock near Passage Island between 0330 UTC to 0730 UTC on 20 May 2009.</p> <p>2. Danger area bounded by:</p> <table> <tbody> <tr> <td>(a)</td> <td>11-00.00N</td> <td>092-30.00E</td> <td>(b)</td> <td>11-15.00N</td> <td>092-30.00E</td> </tr> <tr> <td>(c)</td> <td>11-00.00N</td> <td>092-50.00E</td> <td>(d)</td> <td>11-15.00N</td> <td>092-50.00E</td> </tr> </tbody> </table> <p>3. Safe flying height 7000 metres.</p> <p>4. Cancel this message on 21 May 2009 .</p>	(a)	11-00.00N	092-30.00E	(b)	11-15.00N	092-30.00E	(c)	11-00.00N	092-50.00E	(d)	11-15.00N	092-50.00E						
(a)	11-00.00N	092-30.00E	(b)	11-15.00N	092-30.00E													
(c)	11-00.00N	092-50.00E	(d)	11-15.00N	092-50.00E													
<p>247. India West Coast - Kochi. Charts 22 32 220 259 260 2004 2029 2045 INT 706. Firing exercise by Naval Coast Battery from 0900 UTC to 1200 UTC and 1230 UTC to 1430 UTC on 22 May 2009. Danger area bounded by</p> <table> <tbody> <tr> <td>(a)</td> <td>09-57.50N</td> <td>075-59.50E</td> <td>(b)</td> <td>09-57.70N</td> <td>076-14.20E</td> </tr> <tr> <td>(c)</td> <td>09-44.00N</td> <td>076-17.50E</td> <td>(d)</td> <td>09-42.50N</td> <td>076-09.50E</td> </tr> </tbody> </table> <p>2. Safe flying height 10000 meters.</p> <p>3. Cancel this message on 23 May 2009.</p>	(a)	09-57.50N	075-59.50E	(b)	09-57.70N	076-14.20E	(c)	09-44.00N	076-17.50E	(d)	09-42.50N	076-09.50E						
(a)	09-57.50N	075-59.50E	(b)	09-57.70N	076-14.20E													
(c)	09-44.00N	076-17.50E	(d)	09-42.50N	076-09.50E													

<u>NAVAREA No.</u>	<u>LOCATION</u>	<u>LAST NAVAREA</u>	<u>NAVAREA IN FORCE</u>
IX	Persian Gulf, Red Sea, NW Arabian Sea	088	2007 Series: 062 095 172 200 212. 2008 Series: 022 027 044 045 046 051 061 069 089 105 107 128 176 179 182 191 202 207 211 213 216. 2009 Series: 001 002 010 024 035 040 043 062 077 078 081 082 085 086 087 088.
X	Australia, New Guinea	105	2009 Series: 044 048 060 072 083 084 085 086 088 089 090 092 096 099 100 102 103 104 105.
XI	Malacca Strait, China Sea, N. Pacific	0290	2001 Series: 0775. 2003 Series: 0106. 2004 Series: 0361. 2005 Series: 0307. 2007 Series: 0002 0093 0133 0309 0344 0366 0513 0519 0523 0557 2008 Series: 0054 0113 0160 0210 0219 0322 0336 0347 0348 0349 0350 0352 0375 0380 0384 0398 0411 0475 0618 0675 0677. 2009 Series: 0079 0120 0125 0171 0202 0215 0216 0244 0251 0259 0263 0264 0265 0266 0268 0279 0281 0282 0283 0284 0285 0286 0287 0288 0289 0290.
XII	N.E. Pacific	223	2009 Series: Nil
XIII	N.W. Pacific	053 of 08	2009 Series: Nil
XIV	S.W. Pacific	014	2008 Series: 085. 2009 Series: 014.
XV	S.E. Pacific	035	2009 Series: Nil
XVI	E. Pacific	041	2009 Series: Nil
Hydropacs	Pacific, Indian Ocean	904	2008 Series: 1140 1141 1473. 2009 Series: 687
Hydroplants	Atlantic, Mediterranean	863	2008 Series: 300. 2009 Series: Nil

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
D6894	- Ldg Lts 140°. Front. Île Blanche *	12 43-1 S 45 10-4 E *	VQ W	10	..	Beacon	Rear D6894-05 *
D7083-96	- Sainte Marie. E Breakwater. Ldg Lts 147°. Front *	20 53-6 S 55 32-3 E *	Q W 1-2s	7	4	White square post	142-5°- 151-5°(9°) *
D7083-961	- Sainte Marie. E Breakwater. Ldg Lts 147°. Rear. 10m from front *	20 53-6 S 55 32-3 E *	Q W 1-2s	9	4	White round post	142-5°- 151-5°(9°) *
D7084-2	Sainte-Rose. Mole *	21 07-5 S 55 47-3 E *	Fl G 4s	4	2	White pylon, green top	<i>fl 1</i> *
D7085	Sainte-Rose. N Breakwater *	21 07-5 S 55 47-2 E *	Fl(4)WR 15s	15	W10 R7	White metal tower, red top	W065°-325°(260°), R325°-065°(100°) *
D7085-1	Sainte-Rose. Spur *	21 07-5 S 55 47-2 E *	Q G 1-2s	4	2	White pylon, green top	* *
D7085-15	Sainte-Rose. Tenon *	21 07-5 S 55 47-2 E *	Q R 1-2s	4	2	White pylon, red top	* *
D7091-475	Marine Nature Reserve. Roche aux Oiseaux. BG1 *	21 18-7 S 55 20-2 E *	Fl Y 4s	..	..	Yellow buoyant beacon	Entry to the sanctuary in any way is prohibited. (P) 2009 *
D7091-476	Marine Nature Reserve. Étang - Salé. BGR7 *	21 17-4 S 55 19-7 E *	Fl(4)Y 15s	..	..	Yellow buoyant beacon	(P) 2009 *
D7091-477	Marine Nature Reserve. Étang - Salé. BS9 *	21 16-2 S 55 19-5 E *	Fl Y 2-5s	..	..	Yellow buoyant beacon	Marks seaward limit of sanctuary. (P)2009 *
D7091-478	Marine Nature Reserve. Étang - Salé. BS8 *	21 16-0 S 55 19-5 E *	Fl Y 2-5s	..	..	Yellow buoyant beacon	Marks seaward limit of sanctuary. (P)2009 *

D7091-5	Marine Nature Reserve. Cap La Houssaye - Saint Gilles. BGR1	21 00-6 S 55 14-3 E	Fl Y 4s	..	..	Yellow buoyant beacon	Entry to the sanctuary in any way is prohibited
*	*	*	*	*	*	*	*
D7389-006	- Approach Channel. 3N	25 17-4 N 51 41-7 E	Fl(2)G 4s	..	..	Green beacon	
	*		*				
D7389-007	- Approach Channel. 3S	25 17-3 N 51 41-6 E	Fl(2)R 4s	..	..	Red beacon	
	*		*				
D7389-01	- Approach Channel. 5N	25 17-7 N 51 40-6 E	Fl G 1-5s	..	..	Green beacon	
	*		*				
D7389-011	- Approach Channel. 5S	25 17-6 N 51 40-6 E	Fl R 1-5s	..	..	Red beacon	
	*		*				
D7389-014	- Approach Channel. 7N	25 18-1 N 51 39-5 E	Fl(3)G 7s	..	..	Green beacon	
	*		*				
D7389-015	- Approach Channel. 7S	25 18-0 N 51 39-5 E	Fl(3)R 7s	..	..	Red beacon	
	*		*				
D7389-107	- Approach Channel. 9N	25 18-4 N 51 38-4 E	Fl(2)G 4s	..	..	Green beacon	
	*		*				
D7389-108	- Approach Channel. 9S	25 18-3 N 51 38-4 E	Fl(2)R 4s	..	..	Red beacon	
	*		*				
D7389-111	- Approach Channel. 11N	25 18-8 N 51 37-3 E	Fl G 1-5s	..	..	Green beacon	
	*		*				
D7389-112	- Approach Channel. 11S	25 18-7 N 51 37-3 E	Fl R 1-5s	..	..	Red beacon	
	*		*				

F0755.2	- W end	10 49.0N 73 39.7E	Fl W 15s	15	16	White concrete column 10	Vis 041°- 247° (206°)	*
F0969	- Entrance. N Breakwater. Head	17 37.7 N 83 14.8 E	Fl G 10s	*	*	*	*	*
F0969-1	- Entrance. S Breakwater. Head	17 37.4 N 83 14.9 E	Fl R 10s	*	*	*	*	*
F0969-2	- Transit. Front	17 37.48 N 83 13.76 E	Q W	..	..	14		*
F0969-21	- Transit. Rear. 500m from front	17 37.46 N 83 13.47 E	Oc W 10s	..	..	29		*
F1617-2	Permatang Sedepa (One Fathom Bank) (I)	2 48.7 N 100 56.5 E	Q W	11	11	△ on yellow buoyant beacon, black top	Ra refl. TE 2009	
	-	..	Racon	..	..	..	ILRS Vol 2 Station 79920	*
K0883-8	Serangai (I)	3 25.0 S 101 53.7 E	Fl W 5s	21	14	White beacon	<i>fl 0-5</i>	*
K0922-6	Panjang. Entrance (I)	5 28.0 S 105 18.7 E	Fl G 5s	7	12	Green △ on green beacon	<i>fl 0-5</i> . Ra refl	*
K1072-8	- Sunda Kelapa (I)	6 06.9 S 106 48.5 E	Fl R 6s	12	9.5	Red □ on red GRP beacon	<i>fl 0-6</i>	*
K1133-3	- Tanjung Emas. E Breakwater. Head (I)	6 55.3 S 110 25.3 E	LFl R 10s	14	10	Red □ on red GRP tower	<i>fl 3</i>	*
K1144-58	Pecangakan. Fishing Harbour (I)	6 41.3 S 111 14.0 E	Fl W 4s	23	12	White metal framework tower 20	<i>fl 1-2</i>	*

SECTION – VIII: CORRECTION TO LIST OF RADIO SIGNALS**INP 31(1), 2005***(Last correction: Edition No. 07 dated 01 Apr 2009)***NIL****INP 31(2), 2007***(Last correction: Edition No. 08 dated 16 Apr 2009)***PAGE 85, Mauritius.** Delete entry and replace by:

Mauritius	-04	-05	Last Sun in Oct 0200h LT	Last Sun in March 0200h LT
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BA 18/09**10/09****PAGE 85, Pakistan.** Delete entry and replace by:

Pakistan	-05	-06	15 April 2009 0000h LT	31 Oct 2009 2400h LT
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BA 18/09**10/09****BA, VOLUME 3 Part 1, NP 283(1), 2006/07***(Last correction: Edition No. 15 dated 01Aug 2006)***NIL****INP 31(5), 1997***(Last correction: Edition No. 07 dated 01 Apr 09)***NIL****INP 31(6), 2005***(Last correction: Edition No. 09 dated 01 May 2009)***NIL**

SECTION – IX: REPORTING OF NAVIGATIONAL DANGERS

Instructions for raising Hydrographic Note (Form IH 102) [Enclosed with editions 1,7,13 & 19 of N to M]

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,
Post Box No. 75, Dehradun - 248 001
(UTTARAKHAND), INDIA
e-mail: - inho@dataone.in; inho_marinesafety@dataone.in
 in角度_navwarnings@dataone.in; inho_helpdesk@dataone.in
Fax No.: (0135) 2748373
WEB: www.hydrobharat.nic.in

Instructions for filling up Form IH 102 (Enclosed with editions 1,7,13 & 19 of N to M)

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. When a position is defined by bearings (true or magnetic to be specified) more than two bearings should be used in order to provide a check. Distances observed by Radar should be corrected for index errors. Latitude and Longitude obtained from GPS / DGPS should specify the datum (WGS 84 or other). A copy / tracing from the largest scale chart may be used for forwarding details, with the corrections and additions being shown thereon in red.

Depth Reporting

4. When soundings are obtained using Echo Sounders, the echo-gram should be duly annotated with date, time, position and depth, etc., before enclosing it with the Form IH 102. It is important to state whether 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 applied where necessary. The make, name and type of echo sounder should also be given. Care should be taken to set the echo sounder to the largest scale / phase, so as to obtain maximum details of echo of the feature. Efforts should be made to identify and negate false echoes if any.

5. Reports, which cannot be confirmed or are lacking in certain details should not be withheld. Limitations or shortcomings should be duly notified in the form.

6. Reports on shoal soundings, uncharted dangers and navigational aids out of order should be reported through fastest available means at the mariner's discretion, and also be made by radio to the nearest coast radio station. The draught of modern tankers is such that any uncharted depth under 50 metres should be of sufficient importance to justify a radio message.

7. Port information should be forwarded on form IH 102a together with IH 102. Form 102a contains the information required for Sailing Direction and should be used as an *aide memoir*. Where there is insufficient space on the form, additional sheet should be used.

Please Note: - The receipt of all Hydrographic Notes will be duly acknowledged by the Hydrographic Office. Normally, the sender's ship or name is quoted as the source when the Notices to Mariners reporting the change is issued, unless the information is received through a foreign Notices to Mariners. Further communication from the Hydrographic Office to the sender of the hydrographic note will only be necessary to verify unusual features or abnormal values reported.