



PAKISTAN NATIONAL REPORT

12th MEETING
NORTH INDIAN OCEAN HYDROGRAPHIC COMMISSION (NIOHC)

Colombo, Sri Lanka
20-23 March 2012

BY
PAKISTAN NAVY HYDROGRAPHIC DEPARTMENT

SCHEME OF PRESENTATION



- Introduction
- PNHD Components
- Hydrographic Surveys
- Nautical Charts & Publications
- ENC Division
- NAVAREA IX
- Capacity Building
- Oceanographic Activities
- Conclusion

INTRODUCTION



- ▶ Pakistan Navy Hydrographic Department (PNHD) is working since 1949 to meet all hydrographic related national/international requirements
- ▶ PNHD is well equipped to undertake surveys as per IHO standards and has already published a series of International / National charts for the entire coast of Pakistan

PNHD COMPONENTS



PNHD comprises of

- Hydrographic Office
 - Cartographic Section
 - ENC Division
 - HQ Navarea-IX
 - PN Chart Depot
 - Meteorology Cell
 - National Hydrographic Data Bank (NHDB)

- Hydrographic Dte (ISB)
- Survey Vessel/boats
- Dredging Vessel BEHR KUSHA
- Hydrographic School

HYDROGRAPHIC SUREVYS



▶ COASTLINE OF PAKISTAN



HYDROGRAPHIC SUREVYS



- ▶ Pakistan's coast is approximately 990 Kms
- ▶ Coast is categorized into two types
 - Sindh coast
 - Makran coast

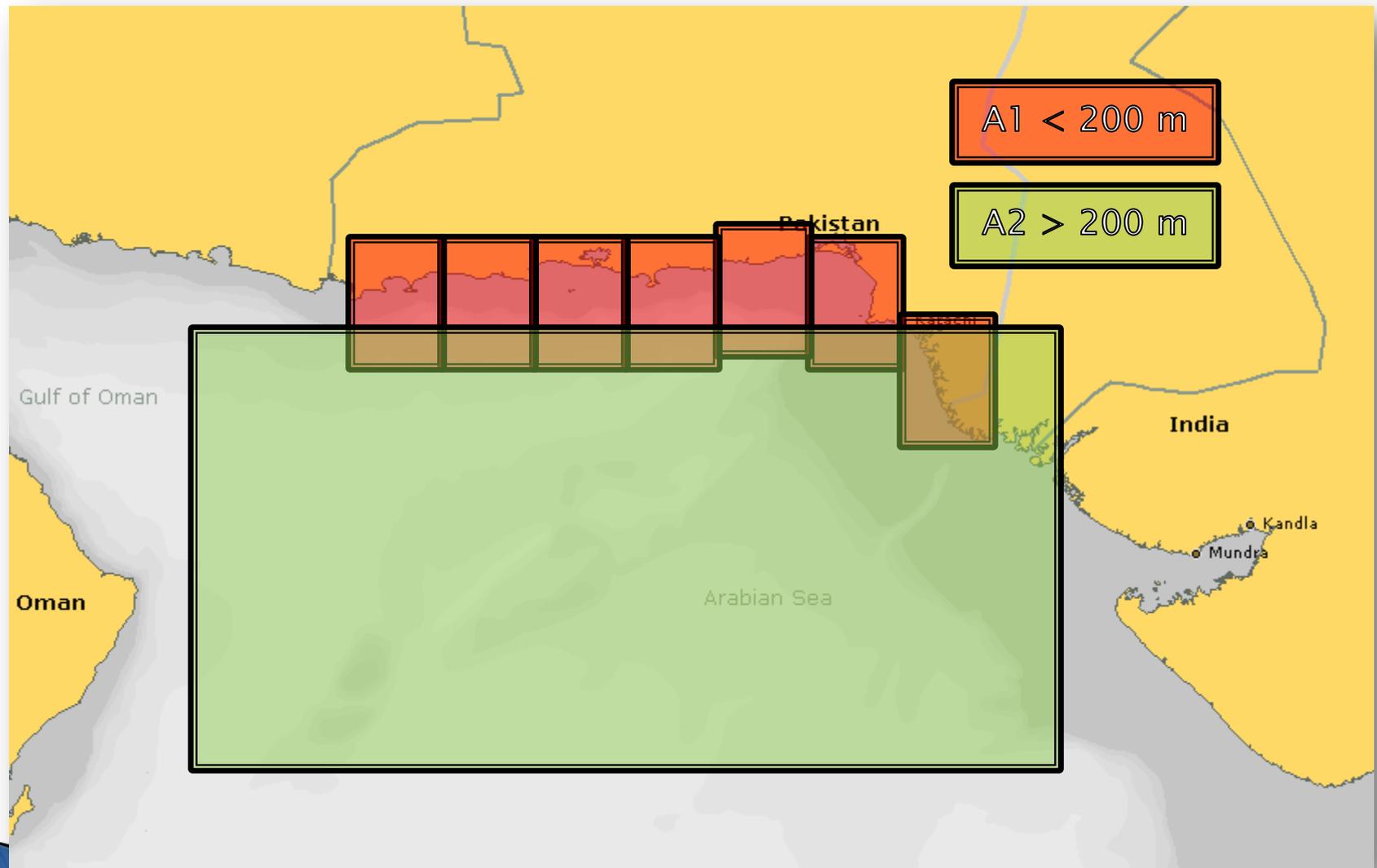
HYDROGRAPHIC SUREVYS



- ▶ SV BEHR PAIMA carried out survey of entire Pakistan Coast



PROGRESS OF HYDROGRAPHIC SURVEYING



ENC DIVISION



- ▶ ENC Division was established in 2005
- ▶ ENC's of major ports (i.e Karachi, Port Muhammad Bin Qasim & Gwadar) along with approaches and major shipping routes of area of responsibility are produced, validated by IC-ENC and now available on web
- ▶ Future plan is to cover ENC's of coastal band and updation of existing ENC's, the work is in progress

ENC DIVISION



- ▶ Medium scale ENC of INT-7019, covering shipping route through Arabian Sea, is available to mariners
- ▶ New Cell of INT-7312 and New Edition of INT-751 are in progress and will be available to mariners as soon as possible

INT Charts



- ▶ Presently 8 charts form part of INT area “I”

Pakistan doesn't produce other charts e.g for pleasure craft, as their demand is almost nil but this product can be met if required.

HQ NAVAREA IX at PNHD



Pakistan is a Coordinator of NAVAREA IX since 1976

- Issues coastal warnings to all ships and concerned National Authorities

NAVAREA IX consists of these 16 countries



- Bahrain
- Djibouti
- Egypt
- Ethiopia
- Iran
- Iraq
- Jordan
- Kuwait
- Oman
- Pakistan
- Qatar
- Saudi Arabia
- Somalia
- Sudan
- UAE
- Yemen

MARITIME SAFETY INFORMATION



- ▶ Pakistan is responsible for transmission of MSIs in NAVAREA IX :
 - NAVAREA IX warnings promulgated through International Safety Net
 - Coastal warnings promulgated on NAVTEX

NAVAREA IX Warnings



NAVAREA IX broadcast is passed daily at 0800 UTC through INMARSAT using LES Perth. Whereas, unscheduled broadcast for urgent navigational warnings is done at any time. A numerical list of all enforced NAVAREA IX warnings is broadcasted each Saturday. A reprint of all NAVAREA IX warnings issued during a week is also included in the weekly edition of Pakistan Notices to Mariners.

CAPACITY BUILDING



PNHD can offer assistance to regional countries in following areas:

- ▶ Hydrographic surveys.
- ▶ Geodetic and bathymetric data processing / production of charts.
- ▶ Basic Survey Recorder / Technician Course.
- ▶ Assistance in ENC production line procedures and quality management system.
- ▶ Handling of MSIs
- ▶ Cat B Hydrographic Course

CAPACITY BUILDING



<u>Country</u>	<u>No. of Candidates</u>	<u>Year</u>	<u>Course Name</u>
FIJI	04	1989	Basic Hydrography Course
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Nigeria	01	2008	Basic Cartographic Officers Course
Azerbaijan	01	2009	Basic Hydrography Officers Course
Sri Lanka	01	2009	Basic Hydrography Course
UAE	01	2009	Basic Hydrography Course
Sri Lanka	02	2009	Basic Cartographic Officers Course
Bangladesh	01	2009	Advance Professional Course
Sudan	01	2010	Advance Professional Course
Sudan	01	2010	Basic Hydrography Officers Course
Sri Lanka	01	2010	Basic Hydrography Officers Course
Nigeria	01	2010	Basic Hydrography Officers Course
Bangladesh	01	2010	Basic Hydrography Officers Course

OCEANOGRAPHIC ACTIVITIES



- ▶ Oceanographic activities conducted with NIO
- ▶ Oceanographic cruises are arranged for data collection
- ▶ Data processing is done at NIO
- ▶ PNHD provides her survey ship for oceanographic cruises



OCEANOGRAPHIC ACTIVITIES



▶ TIDE GAUGE NETWORK

- Work on national network of automatic tide gauges is in progress
- Four satellite tide gauges i.e Gwadar, Ormara , Karachi and KT Bandar are Installed





CONCLUSION

This department participates in national, regional and international maritime activities and conducts surveys of waters as per IHO standards to published nautical charts (paper and electronic both) & publications. Being NAVAREA IX coordinator, responsible for promulgation of navigational warnings



THANK YOU