IHO International Hydrographic Organization

THAILAND NATIONAL REPORT

20th MEETING OF THE NORTH INDIAN OCEAN HYDROGRAPHIC COMMISSION

Scope of presentation

- Hydrographic Office / Service
- Survey activities
- New charts and Updates
- New Publications and Updates
- Maritime Safety Information (MSI)
- C-55
- Capacity building program
- Oceanographic Activities
- Other Activities
- Conclusion

Hydrographic Office / Service

Area of Thai waters

(HDRTN)

- Gulf of Thailand
200,000 square KM

- West coast of Thailand
120,000 square KM

Inland hydrographic survey

(Harbor Department)

- lake
- Lagoon
- river

THE HYDROGRPAHIC DEPARTMENT
ROYAL THAI NAVY (HDRTN)

HTMS. SUK (Oceanographic Vessel)

HTMS. SURIYA (Buoy Tender Vessel)

HTMS. CHANTARA

HDRTN'S VESSELS

HTMS. Pharuehatsabodi

Inland Hydrographic Survey boat (LOMA 1,2,3)

Survey activities

Type of survey	FY 2019-2020
Harbor Survey	3
Approach Survey	2
Coastal Survey	1
General Survey	-
Total	**6**

New charts and Updates

Paper Charts

HDRTN totally produced and maintained 81 paper charts covering Thai waters

Approaches & Ports/Large Scale	**59**
Coastal passage/Medium scale	**20**
Offshore passage/Small scale	**2**

THE HYDROGRPAHIC DEPARTMENT
ROYAL THAI NAVY (HDRTN)

New and Updates paper charts

FY	New Edition
FY 2016	4
FY 2017	3
FY2018	2
FY2019	4
FY2020	4
TOTAL	17

7

New charts and Updates ENCs

45 ENCs Covering 11 Thai Main Shipping Routes

- Bangkok Port
- Laem Chabang Port
- Si Chang Port
- Sattahip Port
- Maptaput Port
- TPI Port
- Prachaupkhirikhan Port
- Songkla Port
- Phuket Port
- Pang-nga Port
- Ranong Port

Status of Thai ENC

- 55 Cells on Services –

40 Cells in MSR & 15 cells out MSR

New Publications and Updates

HDRTN's Publications in 2020 - 2021

- INT 1 Symbols, Abbreviations, Terms and S-57 Objects used on Thai Nautical and Electronic Navigational Charts 6th Edition 2021
- Hydrographic Spatial Data Infrastructure ; Hydro SDI A.D.2020
- Tide table in Thai Water A.D.2020, 2021
- Sunrise-Sunset and Moonrise-Moonset Thailand A.D.2020, 2021

Maritime Safety Information (MSI)

- Issued 34 NTMs and 55 Navigational Warnings since January 2020 both in Thai and English Languages (the Navy Radio Stations and Bangkok Radio Coast Stations run by NT (Public) Co. Ltd.) and NAVAREA XI

C-55

Status of Hydrographic survey

Survey Coverage (Depth < 200 m)

Survey Coverage (Depth > 200 m)

Survey coverage, where:

A = percentage which is adequately surveyed.

B = percentage which requires re-survey at larger scale or to modern standards.

C = percentage which has never been systematically surveyed.

C-55

Status of Nautical Charting

Coverage of charts published by HDRTN, where:
A = percentage covered by INT series, or a paper chart series meeting the standards in M-4.
B = percentage covered by Raster Navigational Charts (RNCs) meeting the standards in S-61.
C = percentage covered by ENCs meeting the standards in S-57.

Capacity building program 2019-2020

Courses	Number
Marine Cartography and Data Assessment in Singapore and UK	1
Access and Analysis of Waveform IMS Data and IDC Products in Austria.	1
workshop on ENC and AML Production in Canada.	2
Hydrographic For Charting and Disaster Management (Internationally Accredited Category B) in Japan	1
Training for Trainers Programme in Basic Hydrography in Korea.	1
Marine Cartography and Data Assessment in UK	1
Basic Hydrography Course (CAT B) in India	1

Oceanographic Activities

TIDE PREDICTION

- **Provides tide table on 29 sites around the Thai waters. Using harmonic constants derived from one year's observations of tide Gauges Supporting from HDRTN, Port Authority of Thailand, and Marine Department for the tide prediction.**

http://www.hydro.navy.mi.th/servicestide.htm

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ROYAL THAI NAVY (HDRTN)

Oceanographic Activities

Tide gauge programme

- Sea Level Monitoring Array currently consists of 21 permanent gauges monitoring sea level around the Thai Coastline, including the Chao-Phraya River.

- Supporting Information on Sea Level Determination
- Supporting Information to National Disaster Warning Center

http://203.147.59.19/Tsunami2011/StaticPage.aspx/

Aids to Navigation Activities

- Maintenance of Aids to Navigation along The Gulf of Thailand and Andaman sea including 9 lighthouses, 79 beacons, 6 leading lights, 77 buoys.
- Installation of Automatic Identification System (AIS) into Aids to Navigation along the Gulf of Thailand and Andaman sea including 8 Base Stations, and 39 A to N station.

Marine Meteorological Activities and Standard Time Keeping Activity

Participation at International/Regional activities

IHO WGs / Others	Date
11th EAHC TRDC – BOD and 7th EAHC – SC, JAPAN	FEB 2020
IHO A-2 and IHO Council conference.	NOV 2020

Conclusions

HDRTN has tried to do its best to carry out hydrographic works to meet IHO standards and to keep all products up-to-date.

In addition, HDRTN will fully cooperate with NIOHC for safety of navigation of North Indian Ocean region and the world.

Since 1921

Hydrographic Department,
Royal Thai Navy

THANK YOU