



THE HYDROGRAPHIC DEPARTMENT
ROYAL THAI NAVY (HDRTN)



THAILAND NATIONAL REPORT

19th MEETING OF THE NORTH INDIAN OCEAN
HYDROGRAPHIC COMMISSION

MUSCAT, OMAN

25th – 28th March 2019



THE HYDROGRAPHIC DEPARTMENT ROYAL THAI NAVY (HDRTN)



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





THE HYDROGRAPHIC DEPARTMENT ROYAL THAI NAVY (HDRTN)

Scope of presentation

- Oceanographic Activities
- Other Activities
- Conclusion

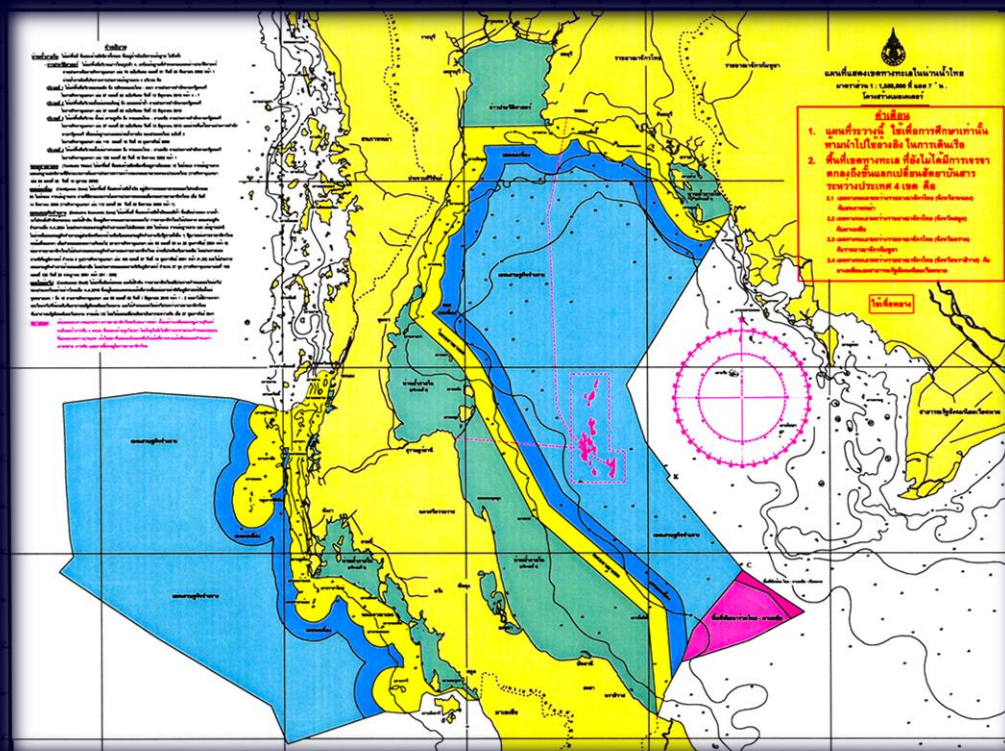




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Hydrographic Office / Service



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



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HTMS. SUK (Oceanographic Vessel)



HTMS. SURIYA (Buoy Tender Vessel)



HTMS. CHANTARA

HDRTN'S VESSELS



HTMS. Pharuehatsabodi



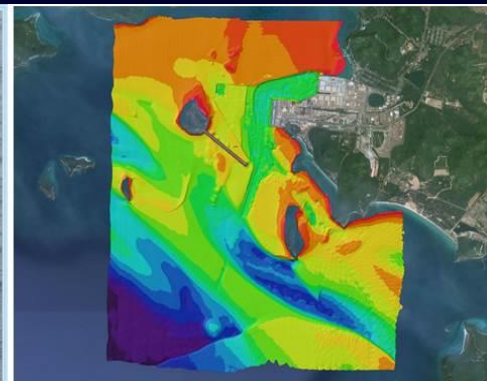
Inland Hydrographic Survey boat (LOMA 1,2,3)



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Survey activities

Type of survey	FY 2018
Harbor Survey	3
Approach Survey	2
Coastal Survey	1
General Survey	-
Total	6



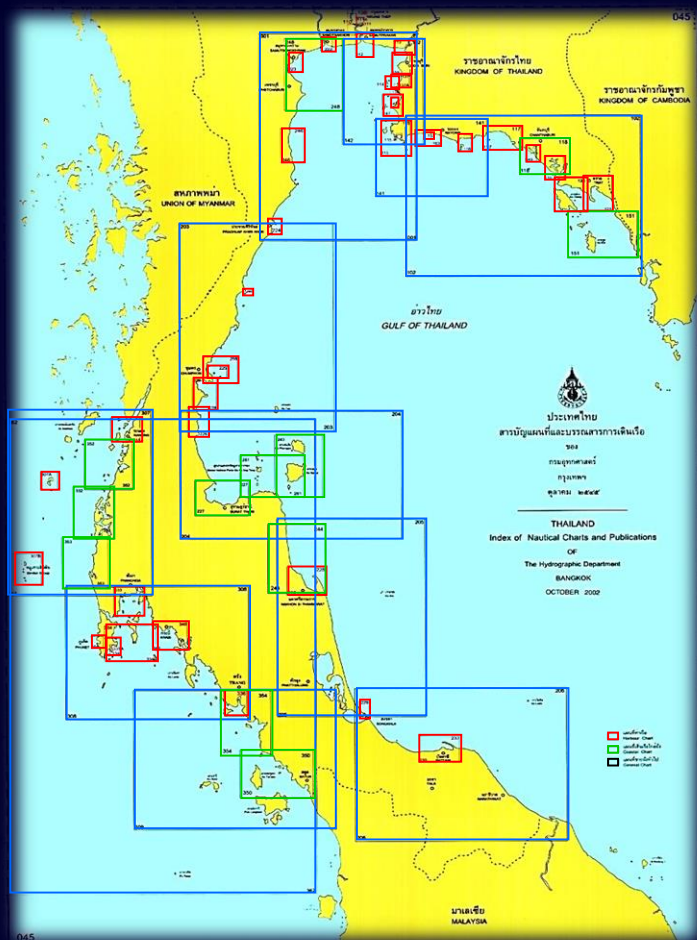


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New charts and Updates

Paper Charts

**HDRTN totally produced
and maintained
80 paper charts covering Thai waters**



Harbour Chart 16

Approach Chart 37

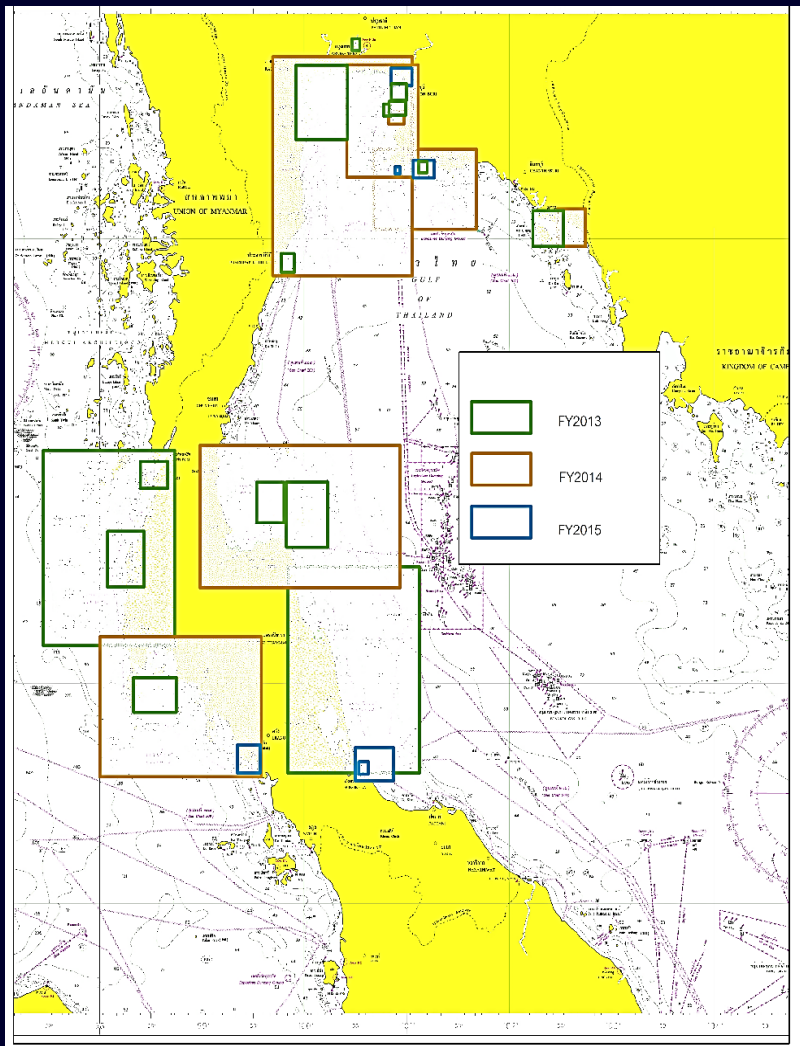
Coastal Chart 16

General Chart 10

Overview Chart 1



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New and Updates paper charts

FY	New Edition
FY 2014	6
FY 2015	6
FY2016	4
FY2017	3
FY2018	2
TOTAL	21



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New charts and Updates

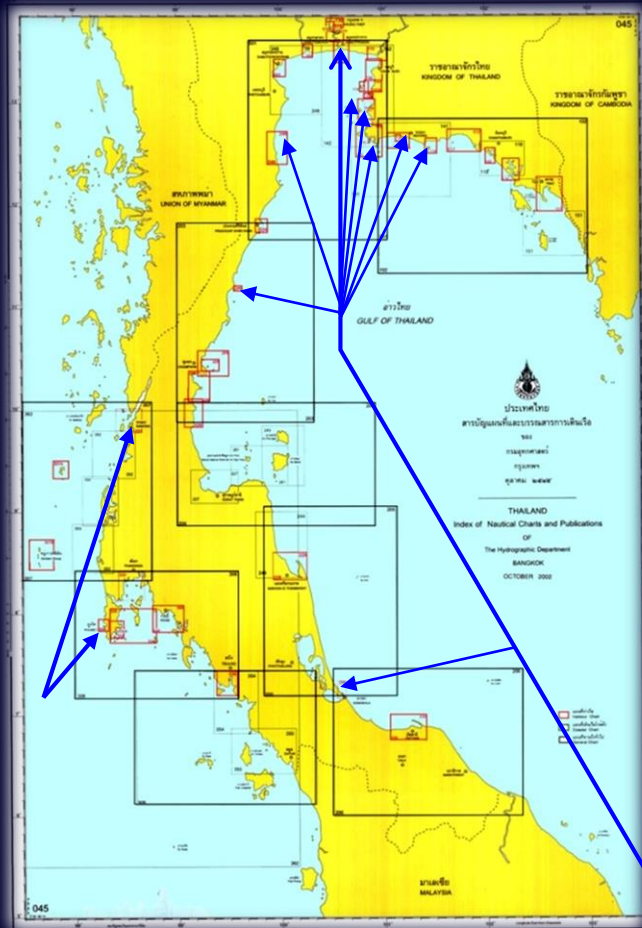
ENCs

8

44 ENC's 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

- 47 Cells on Services –

39 Cells in MSR & 8 cells out MSR

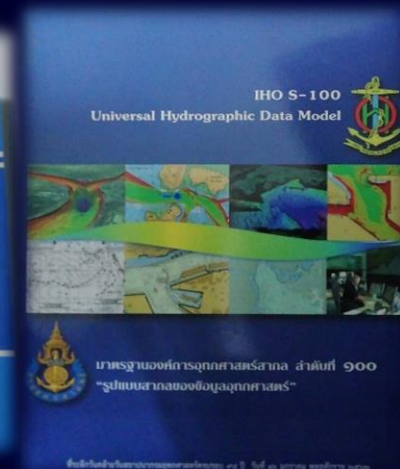
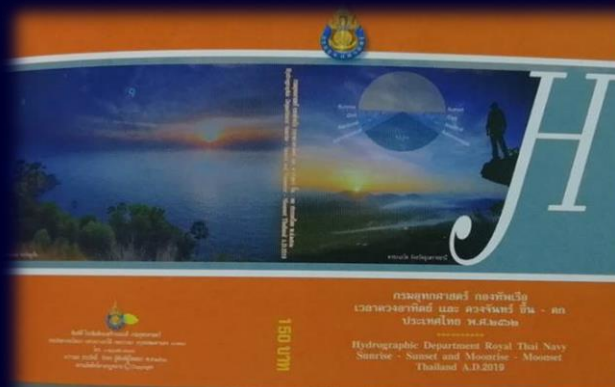


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New Publications and Updates

HDRTN's Publications in 2018 - 2019

- IHO S-100 Universal Hydrographic Data Model, 2019
- Tide table in Thai Water A.D.2019
- Sunrise-Sunset and Moonrise-Moonset Thailand A.D.2019





THE HYDROGRAPHIC DEPARTMENT ROYAL THAI NAVY (HDRTN)

Maritime Safety Information (MSI)

- Issued 42 NTMs and 63 Navigational Warnings since January 2018 both in Thai and English Languages (the Navy Radio Stations and Bangkok Radio Coast Stations run by CAT Telecom (Public) Co. Ltd.) and NAVAREA XI



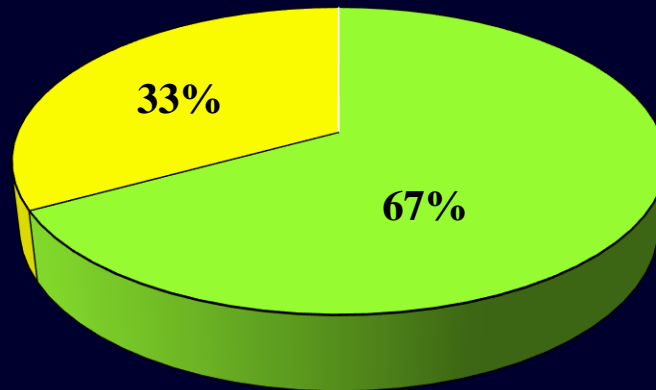


THE HYDROGRAPHIC DEPARTMENT ROYAL THAI NAVY (HDRTN)

C-55

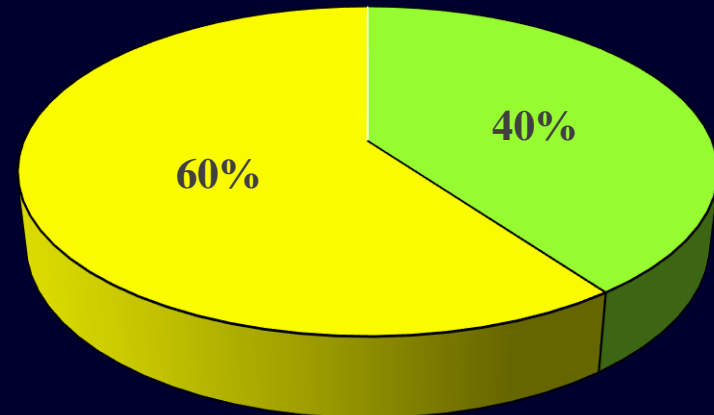
Status of Hydrographic survey

Survey Coverage (Depth < 200 m)



■ A ■ B ■ C

Survey Coverage (Depth > 200 m)



■ A ■ B ■ C

Survey coverage, where:

A = percentage which is adequately surveyed.

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

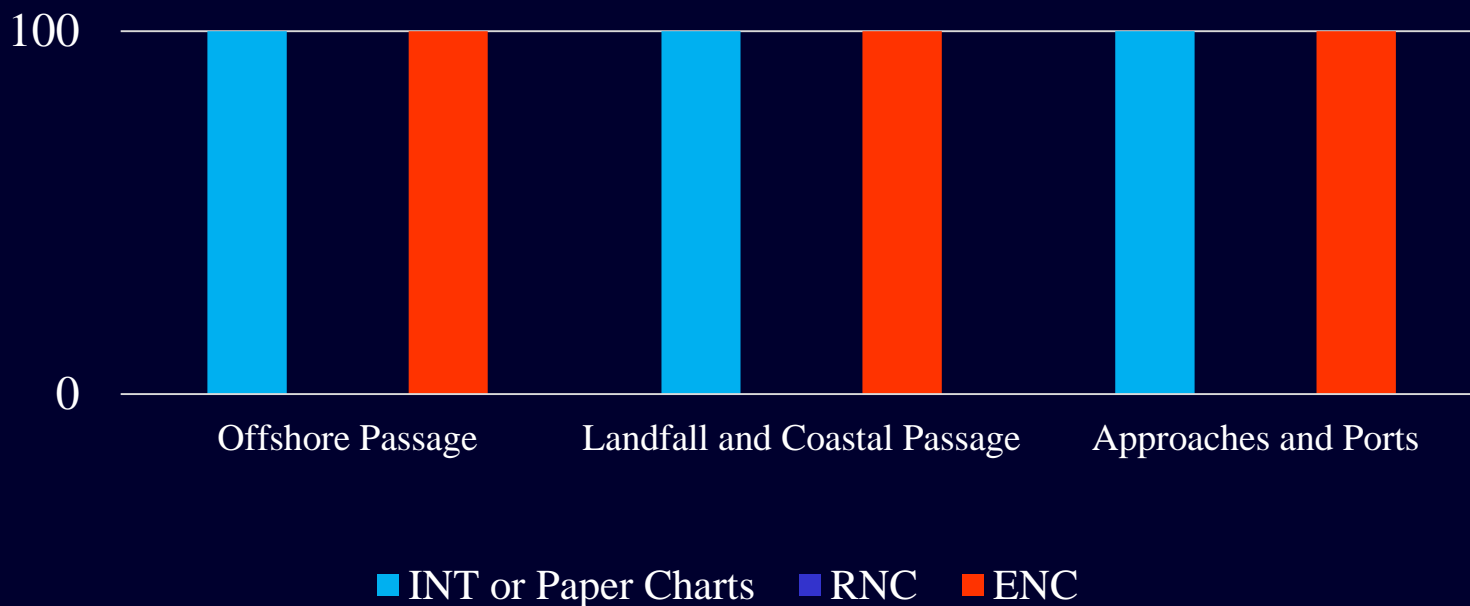
C = percentage which has never been systematically surveyed.



THE HYDROGRAPHIC DEPARTMENT ROYAL THAI NAVY (HDRTN)

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 ENC meeting the standards in S-57.



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Capacity building program 2018

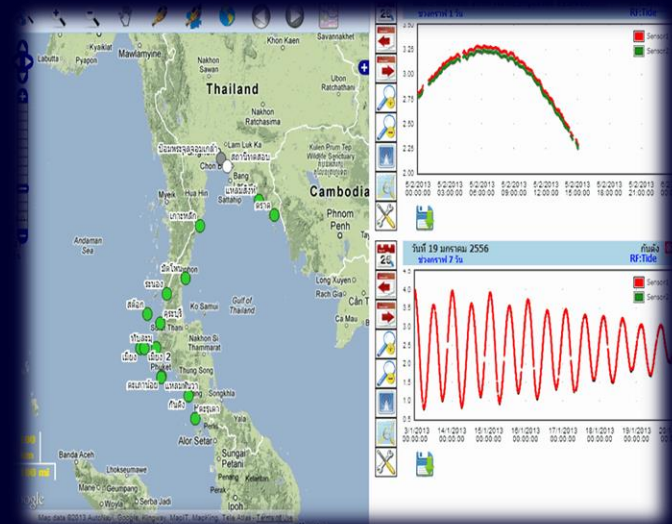
Courses	Number
Workshop on Lidar and Satellite Derive Bathymetry, Japan	1
Workshop on Negotiating Maritime Boundaries, Singapore	1
SAR MAP Course, Australia	1
Basic Cartographic Course, HDRTN_Thailand	13
Basic Hydrographic Course, HDRTN_Thailand	10



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Oceanographic Activities

- Provides tide table on 29 sites within Chao-Phraya River, Gulf of Thailand and Andaman Sea.
- Supporting Information on Sea Level Determination
- Supporting Information to National Disaster Warning Center



<http://203.147.22.19/Tsunami2011/>

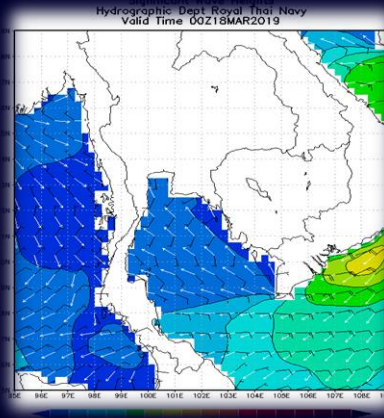




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Other Activities

- Aids to Navigation Activities
- Marine Meteorological Activities
- Standard Time Keeping Activity





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Participation at International/Regional activities

IHO WGs / Others	Date
19th IALA Conference, South Korea.	MAY 2018
ESRI Conference, USA	JULY 2018
13th EAHC Commission, Malaysia.	SEPT 2018
5th EAHC Steering Committee, Indonesia	FEB 2019



THE HYDROGRAPHIC DEPARTMENT ROYAL THAI NAVY (HDRTN)

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.



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THANK YOU