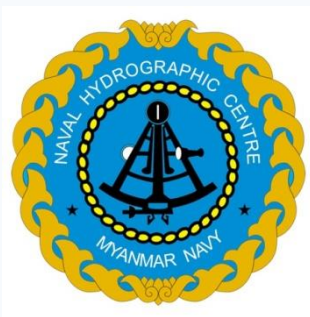




19th Meeting of the North Indian Ocean Hydrographic Commission National Report by



Myanmar Naval Hydrographic Centre-MNHC



International Hydrographic Organization
Organisation Hydrographique Internationale

North Indian Ocean Hydrographic Commission



Hydrographic Office/Service

- Established since 1957.
- Located at Thanlyin, Yangon Division, Myanmar.
- Official Recognized Authority of Chart Production.
- Provides information for safety of Navigation and
- Coordinating with other governmental organizations.
- MSI
- 5 Departments
 - Geodetic and Hydrographic Survey Department
 - Cartographic Department
 - Oceanographic Department
 - Navigation and Survey Equipment Repairing Department
 - Maritime Safety Information Department



Survey Ships

MNS INNYA



- Multibeam System
- Singlebeam ES
- Varipos Ultra/Apex

MNS 807



- Singlebeam ES
- RTK

MNS115



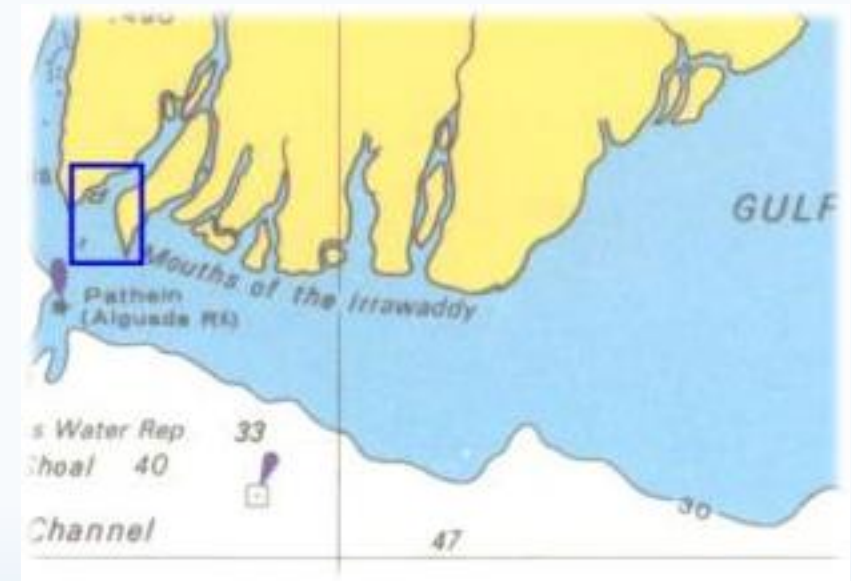
- Multibeam System
- Singlebeam ES
- RTK



Surveys (2018-2019)

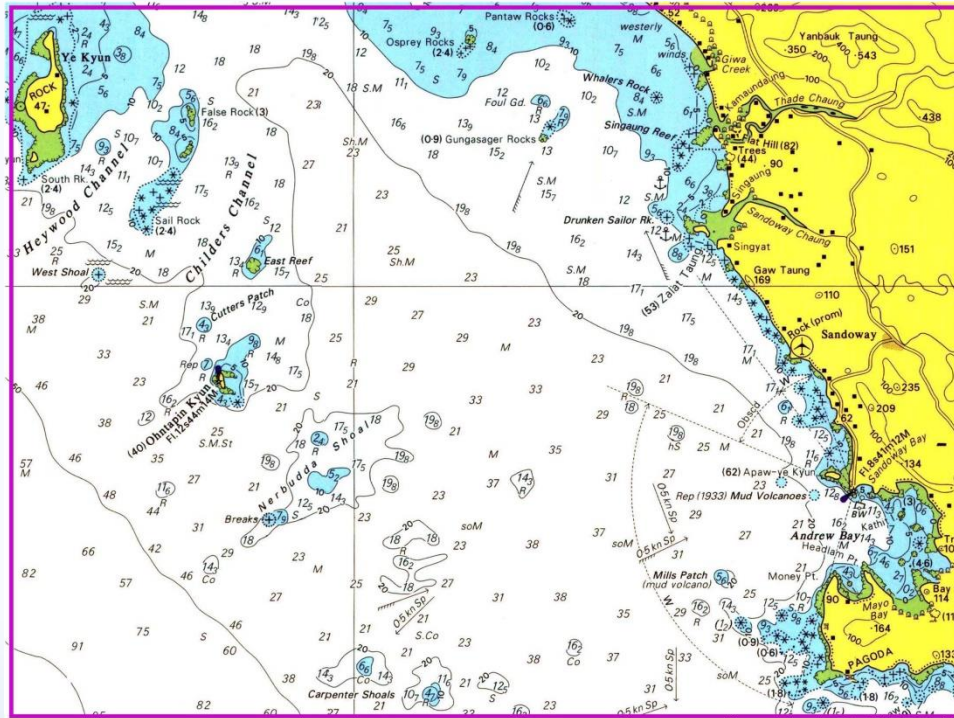
Conducted the following surveys-

- Conducted survey a portion of INT 7438 area by INS INNYA and the survey to be continue.
- As coastal survey, MNS 115 conducted survey along Patheingyi River Channel.



Joint Survey with India (2019)

Joint survey has been carrying out by MNS INNYA and INS Darshak in Andrew Bay early of this year.



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Technologies used

- EM 2040C MB
- Geoswath Plus
- Singlebeam ES
- HYPACK
- Kongsberg SIS
- Geoswath Plus
- Varipos Ultra/Apex
- Leica RTK/GNSS
- Caris HIPs and SIPs
- Caris S-57 Composer
- Dkart Office/Dkart Editor
- Dkart Publisher



Chart Production/Distribution

- ENCs



- (a) MM4009A0 (Yangon River)
- (b) MM4009A1 (Yangon River)
- (c) MM40024A (KyaukPhyu)
- (d) MM40024B (KyaukPhyu)

Distribution

MNHC has been distributing its ENCs through UKHO for past years. At the current moment, MNHC may establish a new distribution system with VARs.



Chart Production

Paper Charts

Chart No	Surveyed Year	Location	Scale	Remark
07a	2018	Pathein River Entrance	1:40000	
07b	2018	Pathein River Channel	1:50000	
07c	2018	Pathein River Channel	1:25000	
07d	2018	Pathein River Channel	1:25000	



Maritime Safety Information (MSI)

Myanmar Governmental

- Myanmar Port Authority-MPA,
- Myanma Oil and Gas Enterprise-MOGE, Ministry of Transportation and Communication- MoTC,
- Department of Marine Administration-DMA and
- Directorate of Myanmar Inland Waterway,

Foreign Organizations

- Regional Nav Area Coordinator (India)
- Foreign HOs

2018		2019	
NtMs	Nav Warning	NtMs	Nav Warning
37	-	11	1



MSI Data Sharing Centre

Maritime Rescue Coordinating Centre-MRCC

Telephone +953131642, +953131651

Fax +951202417

E-mail mrcc.yangon@mptmail.com.mm

(The information is shared between regional navies RCCs)



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Status of Hydrographic Surveying

	A	B	C
Depth< 200 m	80%	15%	20%
Depth>200 m	-	-	90%

Status of Nautical Charting

	A	B	C
Offshore Passage/ Small Scale	10%	-	-
Landfall and Coastal	-	-	-
Approaches and Ports/ Large Scale	10%	-	60%



Capacity Building

Local Training

- 4 officers Basic Hydrographic Course
- Grade 1,2,3 Sailor Hydrographic Courses

Abroad Training

- 4 officers (ENC Production Workshop, India)
- 1 PO Sailor Course in India
- 1 Officer participated NIOHC funded MSI Workshop (2019)

More Training Requirements

- ENC Production
- ENC Distribution



Oceanographic Activities (2018)

- Chinese Oceanographic Research Vessel
- Norwegian Research Vessel (Dr Fridtjof Nansen
(Climate Change, Chemical Properties of Seawater and Living Stock Reservation)



Conclusion

- MNHC is founded since 1957.
- Authority of Nautical Chart production in Country.
- Supporting information for safety of navigation.
- Upgrading the existing charts.
- Also support technical advices and data information for maritime boundary demarcation cases.
- MNHC is always trying to upgrade its capability to meet IHO standard.
- Require more training for ENC Production and Distribution.



Thank You

Question?



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