



MYANMAR NATIONAL REPORT

To

the 16th North Indian Ocean Hydrographic Commission Meeting

14th-16th March 2016, Chittagong

Bangladesh

1. Myanmar Naval Hydrographic Centre-MNHC

1.1 Myanmar Naval Hydrographic Centre-MNHC was founded since 1952 has been conducting hydrographic surveys and producing nautical charts. MNHC is the only one authorized government organization which has solely responsibility of producing charts in the country though it is established under Myanmar Navy. MNHC is working together with International Hydrographic Community now days and other local government organizations such as Myanmar Port Authority, Myanma Oil and Gas Enterprise-MOGE, Department of Marine Administration-DMA and Directorate of Myanmar Inland Waterway, etc.

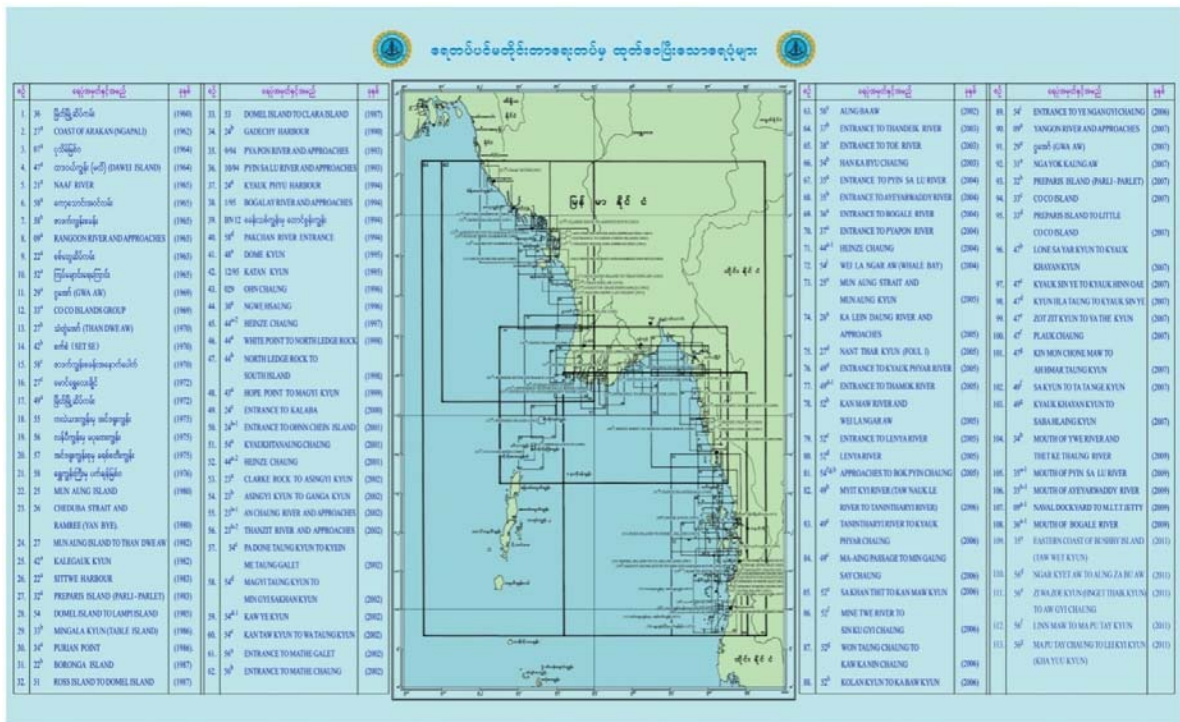
1.2 MNHC is also responsible for Maritime Safety Information-MSI in the working network of neighboring navies, NAV AREA Coordinator and Foreign HOs as a Maritime Safety Information Division is organized under its control.



2. MNHC's Mission

2.1 MNHC is focusing on National Shipping Volumes at Major and Minor Ports and producing the nautical charts in accordance with IHO standards. MNHC also aims to participating in International Hydrographic Events and Hydrographic Communities at different levels.

2.2 MNHC is also to conduct hydrographic surveys at National Waters in accordance with MNHC's own chart scheming.



3. MNHC Organization

3.1 Since established in 1952, MNHC was formed by follow divisions-

- (a) Geodetic and Hydrographic Survey Division
- (b) Cartographic Division
- (c) Oceanographic Division
- (d) Navigation and Survey Instrument Repairing Division
- (e) Maritime Safety Information Division
- (f) Administrative Division

3.2 Under administrative control of MNHC, the following three hydrographic survey ships are attached to No(1) Naval Fleet, Yangon, Myanmar-

(a) Coastal and Offshore Hydrographic Survey Ship “Innya”



This vessel came into hydrographic services in 2013 and was fully equipped with hydrographic instruments and systems in late 2013. As being a stalwart survey vessel, it has done successfully many coastal and offshore survey achievements.

(b) Coastal Survey Vessel “807”

This vessel is in hydrographic services since (1962) and till now. The vessel number appears as “807”. Digital survey equipment and systems are installed aboard.

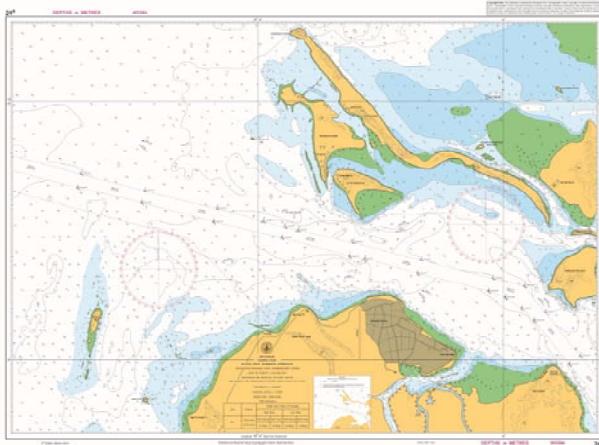
(c) Near Shore Survey Vessel “115”

This vessel has just recently joined to hydrographic services in year 2013, also fully equipped with modern hydrographic survey instruments and systems. The mission of this vessel is to conduct hydrographic survey at near shore waters.

4. Nautical Paper Chart Production

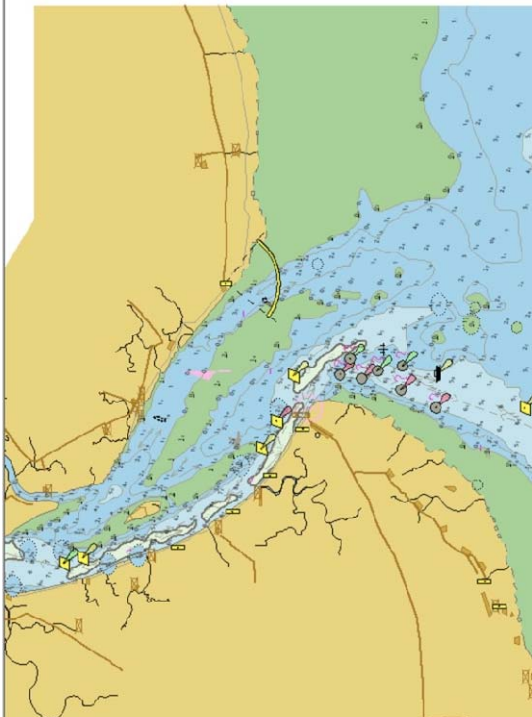
4.1 Since established in 1952, MNHC has produced 117 nautical paper charts but most of them are not in commercial used before. Now MNHC focus on safety of navigation purposes not only for navy ships also for commercial uses. MNHC will soon be categorizing nautical paper charts into two groups- Military Purposes and Commercial Uses, then those appear as commercial usage nautical paper charts will be distributed to various uses of mariners.

4.2 A deep sea crude oil harbor has been newly built up at Kyauk Phyu, western coast of country in Bay of Bengal. MNHC resurveyed the area and published 2nd Edition Kyauk Phyu Harbor Charts; usage band 4 and 5 which updated from 1st Edition promulgated in 1991.



5. ENC Production

5.1 MNHC efforts to produce ENC's which reflect from some existing paper charts which are of country's important navigable waters and major harbours. The first MNHC's two ENC's cells of Yangon River have been released through UKHO VAR in the end of year 2014.



5.2 The recent Kyauk Phyu Harbors' ENC's have also been encoded into ENC and those two ENC's Cells are ready to distribute now. To accelerate ENC production, MNHC still requires more trainings and experiences in the field of ENC production, Distribution and Maintenance.

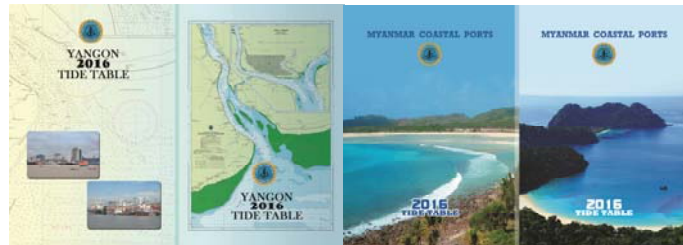
6. Production System

6.1 MNHC use the following systems for paper charts and ENC production-

- (a) Caris GIS
- (b) Caris S-57 Composer
- (c) Dkart Office
- (d) Dkart Publisher

7. MNHC Annual Tide Table

7.1 MNHC annually promulgates tide table for Myanmar Major and Minor Ports in country wide.



8. Maritime Safety Information

8.1 MNHC shares the maritime safety information in the form of Notices to Mariners which are promulgated by email. MNHC's Notices to Mariners are later promulgated on NAV AREA WARNING issued by Coordinators and also this information is given to other Foreign HOs. MNHC is free from the liability of the Data from NtMs which is reused on the products of other HOs unless the agreement has been established for the entitlement. MNHC pays attention to promulgate precise information which is critically important for safety of navigation in the region.

8.2 Total (31) Notices to Mariners were promulgated since last meeting in 2015 and so far (15) NM have been promulgated in this year 2016. The followings are the contact emails for MNHC's Maritime Safety Information concerns-

ltcdryehtuntoo.mnhc@gmail.com

yehtunoo@m-n-h-c.com

zawzawlat@m-n-h-c.com

slt.hsumonoo@gmail.com

sltkhinhuzar.mnhc@m-n-h-c.com

mnhcoffice@m-n-h-c.com

8.3 MNHC is also working together with Maritime Rescue Coordinating Centre-MRCC (Ayeyarwaddy) which is operating under Myanmar Navy. MRCC is also one of the focal point for Maritime Safety Information which is in the network of Regional Navies's MSI concerns. AIS with GMDSS systems are monitoring the regional seas and the information is shared between Regional Navies. The following focal points are to be contactable-

mrcc.ayeyarwaddy@gmail.com

9. Survey Activities

9.1 As it is one of the MNHC's mission, for covering the national water area we have been doing hydrographic surveys in new important water area and annually resurveys in the critical dynamic waterway.

9.2 In the year 2015, MNHC has done joint Survey in the approach water area of the developing Sittwe harbour with neighboring country, India by INS- Dershak. By the mutual cooperation of the survey officers and crews from both countries, the joint survey has been done successfully and the fair sheet comes tidy out as a commemorative picture.



10. Capacity Building

10.1 MNHC is receiving CAT A and CAT B hydrographic courses from regional coordinator, India annually. MNHC also received the following NIOHC's CB funding courses/workshop since last meeting-

- (a) ENC production training (Caris S-57 Composer) – Yangon, Myanmar
- (b) MSI Workshop – Muscat, Oman

(c) Multibeam Workshop – Vizag, India

(d) Marine Cartography and Data Assessment Course-UKHO, England



10.2 As approaching to ENC production, it is found that MNHC still requires more Cartographic and ENC production, ENC distribution trainings OR Workshops.

10.3 Annual Hydrographic Trainings at basic level for Myanmar Naval Officers are run at Naval Training Command Headquarters, Thanlyin, Myanmar as local training courses.

11. Conclusion

11.1 In year of 2015-2016, MNHC conducted hydrographic surveys at a recently built up important major port, updated nautical charts. ENC production progress has also been positively and moved forward to a proper stage. MNHC cooperated with NAV AREA COORDINATOR and Foreign HOs for MSI concerns. It also thankfully received training courses, workshop opportunity from North Indian Ocean Hydrographic Commission and this fruitful opportunity given by member States are thankful. In the conclusion, the hydrographic activities of MNHC are moving ahead properly and 2015-2016 is recorded as a successful year of MNHC.

Yangon, March 2016

MNHC CONTACT LIST

Commodore Min Thein Tint

Commanding Officer of MNHC

Mintheintint.hydro2010@gmail.com, mintheintint@m-n-h-c.com

Commander Ye Lwin

Deputy Commanding Officer of MNHC

yelwin@m-n-h-c.com

Lieutenant Commander Ye Htun Oo

Head of Geodetic and Hydrographic Survey Division, MNHC

In-charge of ENC production

lyehtunoo.mnhc@gmail.com, yehtunoo@m-n-h-c.com

Lieutenant Soe Nyunt Thaw

In-Charge of Maritime Safety Information

soenyunthaw52@gmail.com, soenyunthaw@m-n-h-c.com

Myanmar Naval Hydrographic Centre-MNHC

Myanmar Navy

Po-Box 511, Yangon, Myanmar

Ph/Fax: +953131669

mnhcoffice@m-n-h-c.com