



**INTERNATIONAL HYDROGRAPHIC ORGANIZATION  
MESO AMERICAN & CARIBBEAN SEA HYDROGRAPHIC  
COMMISSION**



# Report of the MACHC INTEGRATED CHART COMMITTEE

INT CHART AND ENC COVERAGE FOR THE MACHC REGION

NOVEMBER 2017

## INTRODUCTION

The purpose of the Meso American and Caribbean Sea Hydrographic Commission's (MACHC) Integrated Chart Committee (MICC) is to provide consistency in the development and maintenance of regional charting schemes, including the monitoring of INT Chart and ENC production, and to promote standardization of charting activities of the in International Hydrographic Organization (IHO). This is an on-going activity and this report provides the status of these efforts. Previous reports included detailed plans of ENC schemes, compilation, and expected delivery dates and the various methodologies used for assessing their status. While this effort continues, the 2017 effort was concentrated at identifying needs and resolving gaps in ENC coverage. Similar efforts are being dedicated to completing the INT Chart coverage within the MACHC Region. However, detailed information on methodology and approaches used to resolve issues is not replicated in this report. This Report provides a summary of activities of the MICC during 2017.

## MICC ORGANIZATION

Participation on the MICC is open to all MACHC members. However, as people are reassigned within their organizations and new persons come aboard the actual list is in a constant state of flux. The current list of participants is at Annex A.

## MICC WORK PLAN AND PROCESS

The work plan for 2017 included acceptance by members of Port Analysis that identified gaps in ENC coverage (Bands 4, 5, and 6) for cruise vessels ports Further, plans to expand this effort to include other vessel types continue to be investigated. Other tasks included resolving gaps and overlaps of ENCs and INT charts within the MACHC region.

These activities were handled primarily through three Conference Calls and one face-to-face meeting as follows:

1. May 04, 2017

2. August 09, 2017
3. November 01, 2017
4. November 27, 2017 at the MACHC meeting.

Additional communications were conducted among individuals in an on-going nature.

## PORT ANALYSIS EVALUATION

The ports analysis included evaluating 18 months of data of Cruise Ships destinations. The Ports of Call were compared to the availability of Bands 4, 5, and 6 ENC coverage of those ports. The ports identified were sent to all MACHC members for review and acceptance. During the past year, MACHC members finalized the Cruise Ship Ports list. This information was added to the original priority ports data that identified gaps in ENC coverage within the MACHC region. Currently 14 of the 46 ports identified will have large scale ENC coverage. There were 3 ports identified as having no port significance and were removed. The complete data set is located in Annex B. The committee will continue to work with members to produce large scale coverage of ENCs for the identified priority ports.

## INT CHARTS

There have been several INT Chart updates for calendar year 2017. In addition, Paulo Matos from Brazil has been named the new INT Chart Coordinator. There was an overlap between INT Chart 4025 and 4011. The members from both UK and Columbia worked to resolve this overlap and INT Chart 4025 was reduced in coverage scale to 1:1,200,000. INT Chart 4191 and 4090 are in the process of being re-schemed to resolve overlap issues and to include better coverage of the port of Paramaribo. The MICC is grateful for the members of France, UK and Suriname for working together on this chart scheme.

The MICC utilizes the MACHC section (INT Region B) of the Korean built INT Chart Web Catalog. All changes and updates to the INT Charts within the MACHC region can be viewed at <http://chart.iho.int:8080/iho/main.do>.

## ELECTRONIC CHARTS

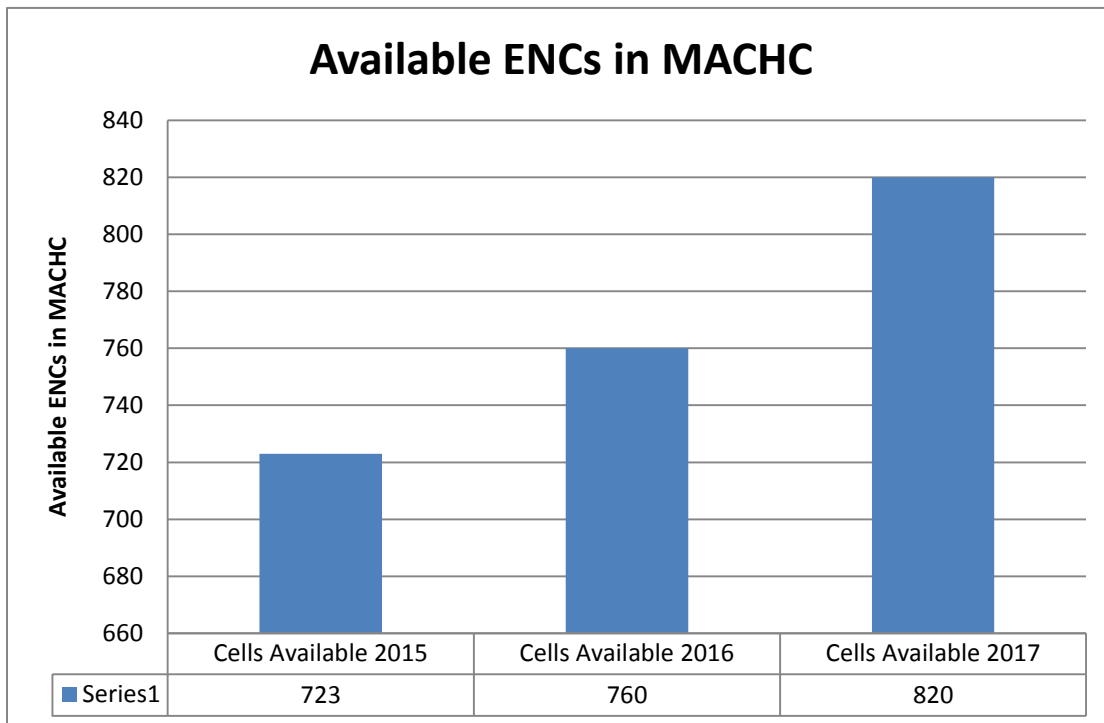
During the past year, the MICC addressed and resolved the Band 2 overlaps between the US and Mexico. Two US cells were revised based on the Exclusive Economic Zone (EEZ) boundary shared with Mexico. Additionally Mexico has created 8 new band 2 cells that will be available at the end of 2017. With the availability of an increasing number of ENCs, other overlaps are often introduced and are continuously being addressed as they arise. The new approach of using results of the Port analysis to determine adequate ENC coverage clearly identified the requirement for additional ENCs. The MICC Technical Coordinator is closely working with the impacted Member States to resolve this. The goal of attaining the required number of ENC cells

to achieve adequate coverage as per the WEND Principles is progressing. Although this number will achieve adequate coverage within the Region, it should be noted that the Cruise Line Industry has requested several additional large-scale ENC coverage for selected Ports of Call. Steps are being explored to supplement the existing suite of ENCs to improve coverage beyond the “adequate” requirement of the WEND Principles and to satisfy the Cruise Lines. All ENC cells are included in the listing of ENCs at Annex A to this report.

The table at right represents a summary of this year’s accomplishments. It should be noted that because 3 cells were withdrawn due to possible duplication and/or overlaps, it reduced the new 2017 increase from 60 cells to a net of 57 new cells for this year.

Newly Available cells in 2017	60
Cells canceled in 2017	3
Total Cells Available 2016	760
Total Cells Available 2017	820
Net New Cells 2017	57

The bar graph below provides a snapshot of the significant increase in ENC cells for the MACHC Region.



## ENC-ON LINE

The MICC is grateful to the Member States who have provided their data for ENC Online. This year the MICC added Suriname ENCs to the viewer. The MACHC ENC Online viewer can be accessed here: <https://www.iho-machc.org/#enconline>. Results of this activity, which has been closely coordinated with the MEIP, can be viewed at: <http://www.iho-machc.org/>.

## RECOMMENDATIONS

The MICC makes the following recommendations for 2018:

1. MICC continue to monitor and update the Region B, both for the Atlantic and Pacific side, ENC scheme for all Usage Bands on a continuing basis.
2. As a permanent task, MICC invites all MACHC Member States to provide the MICC Technical Coordinator with updates to their ENC production plans.
3. The MICC continue with the Ports Analysis and work directly with Member States to build the required ENCs in order to provide adequate coverage as required by IMO.
4. In order to create the IHO worldwide ENC database, the MICC encourages all ENC producers to make their ENCs available through Regional Electronic Navigational Chart Coordinating Centers (RENCs), even if they are also distributed by different channels.
5. MICC continue to monitor and update the Region B INT Chart scheme for all scales for both the Atlantic and Pacific sides.
6. As a permanent task, MICC invites all MACHC Member States to provide the MICC Technical Coordinator with updates to their INT Chart schemes and production plans.
7. MICC encourages Member States to synchronize the release of new (and updated editions) “INT Charts” and “ENCs” as best as possible.
8. MACHC Chair is invited to provide this report to the International Hydrographic Bureau (IHB) as the region’s contribution to global (ENC and INT) chart coverage so that it may be conveyed as appropriate to the IMO.

## ACTIONS REQUIRED OF THE MACHC

The MICC invites MACHC Member States to note and endorse this report and its recommendations. The MICC also requests that the MACHC Chair then transmit the report to the IHB for final communications as appropriate to the IMO.