



#### CAPACITY BUILDING PLAN Programme document for the period 2023-2025

## **1. INTRODUCTION**

1.1. Rationale

It is estimated that over 30% of the world's crude oil passes through the Caribbean which is home to over 50% of the world's cruise shipping. In addition, the Caribbean endures a hurricane season from July to November; the storms can and do leave a trail of devastation on the islands and their coasts. For these reasons, it is crucial that SOLAS contracting Governments undertake hydrographic surveys as and when required, that they arrange for the compilation and publication of hydrographic data, the dissemination and keeping up to date of all nautical information necessary for safe navigation.

The IHO Capacity Building Strategy classifies the development of hydrographic services into three phases:

- those which are in Phase 1: Collection and circulation of nautical information, necessary to maintain existing charts and publications up to date;

- those which are in Phase 2: Creation of a surveying capability to conduct coastal and offshore projects; and

- those which are in Phase 3: Produce paper charts, ENC and publications independently.

An important and complementary element of hydrographic capacity building is the development of a mature infrastructure for Maritime Safety Information (MSI) and such an infrastructure sits firmly in Phase 1.

Coastal/maritime states have certain treaty obligations (SOLAS) placed on them and the IHO/MACHC effort aims at assisting states in meeting these obligations. To achieve this a national understanding and coordination effort is required noting that:

- resources (human, time, finance etc) are limited, consequently prioritization is a fundamental issue;

planning must be realistic;longer term training such as CAT A or B are not covered because such training is out of the scope of the IHO CB budget.

Nowadays, the rapidly evolving technology has replaced old navigation paradigms and demands continuous investments in education and training so that the Hydrographic Services can continue to provide high quality products and services which satisfy new demands of the maritime community.

MACHC is aware of its Member States' efforts to provide quality service to the international maritime community in order to contribute to the safety and security of navigation and human life at sea as well as the preservation of the environment in its region and, as part of the IHO community, to contribute to the achievement of the objectives and directions of the Organization. This document provides the MACHC Capacity Building plan to support those efforts.

#### 1.2. Aims and objectives

The overall aims of the Plan are:

a) to train staff, at various levels, to ensure a much-needed capability on MSI, hydrography and nautical cartography, particularly after natural disaster or other incidents which could affect water depths in harbours and approaches; and

b) to comply with the IHO resolutions and guidelines regarding MSI, hydrographic and nautical cartographic activities.

The specific objectives of this Plan are:

a) to ensure a basic level of MSI is established in all coastal states to produce Local/Coastal/NAVAREA Warnings, communicate effectively with the charting authority and implement the MSI elements of GMDSS;

b) to instruct staff in the region on the methods of carrying out hydrographic surveys, to improve safety of navigation through enhanced navigational products.

c) to promote the establishment of Hydrographic Services (HS) and the evolution of CB Phases of the established ones.

1.3. Priorities

Despite the breadth of need existing in the Region, for the period of 2022 to 2022, priorities should be set in the sequence of the following list, the first of which are the highest:

0 - activities which may promote awareness of national MSI and hydrographic obligations;

1 - activities which may improve the capacity of existing HS in Phase 1, including MSI-activities;

2 - activities which may improve the capacity of existing HS in Phase 2; and

3 - activities which may improve the capability of existing HS in Phase 3.

Note the link between the training activities listed in paragraph 2. Activities below, and phases 0 to 3 listed above

The current hydrographic capacity status of countries/territories of the region is in Annex  $\underline{A}$ .

1.4. Methodology and Procedures

This Plan will be reviewed each year, and adjustments made as necessary.

Each year the Commission will decide responsibilities for the programmed events of the subsequent year.

The MACHC Capacity Building Coordinator will send to the Chair, no later than February 15th of each year details of all planned projects. The projects must be written in the standards established by the IHO CBSC (see Annex  $\underline{B}$ ).

Projects supported by IHO CB Fund must follow the IHO CBSC procedures published at the IHO website.

The Chair will check the proposed projects and endorse them. The CB Coordinator will send them to the IHO CBSC and Secretary using the Capacity Building Management System or appropriate mechanism by the agreed CBSC deadline.

## 2. Activities

| Phase | Activity                                     | Project Objective   | Target Audience  |
|-------|--|---|--|
|       | Technical and<br>Advisory Visits             |   |  |
| 0.1   | High level visit to governmental authorities | To raise government awareness of their SOLAS treaty obligations | Related Ministries<br>and Heads of<br>National<br>Agencies,<br>particularly<br>governmental<br>decision makers |
| 0.2   | Technical assessment<br>and advice visit     | Provide advice to identify how<br>coastal states meet their     | Maritime Sector<br>National  |

| Phase | Activity   | Project Objective  | Target Audience   |
|-------|--|--|---|
|       |  | hydrographic and MSI reponsibilities   | Agencies.<br>Stakeholders and decision makers                                   |
| 0.3   | Technical<br>Implementation Visit  | To audit the state of recommendations made as a result of previous technical visits  | Maritime Sector<br>National<br>Agencies.<br>Stakeholders and<br>decision makers |
| 0.4   | Seminar on Raising<br>Awareness of<br>Hydrography  |  | Maritime Sector<br>National<br>Agencies.<br>Stakeholders and<br>decision makers |
|       | <u>Technical Workshops,</u><br><u>Seminars, Short</u><br>Courses   |  |   |
| 1.1   | MSI Course (3 days)<br>Training on<br>establishment of MSI<br>structure and basic MSI<br>procedures                          | To establish a core group of trained persons to deal with MSI  | MSI Practioners   |
| 1.2   | Phase 1 Skills (5 days)<br>An introduction to the<br>assessment and<br>promulgation of<br>navigationally significant<br>data | To provide a core group with the<br>skills and knowledge to assess and<br>promulgate navigationally significant<br>information to the wider maritime<br>community (this course supports the<br>MSI course) | MSI Practioners   |
| 1.3   | MSI Workshop (3 days)  | To reinforce the learning at 1.1 above   | MSI Practioners   |
| 2.1   | Basic Hydrographic<br>Survey Course (10<br>days)   | To provide awareness of national hydrography, hydrographic surveying and nautical cartography  | Maritime Sector<br>Decision Makers  |
| 2.2   | Port and Shallow Water<br>Survey Course (5 days)   | A workshop to aid exchange of<br>information and ideas about the<br>challenges faced by port and<br>shallow water surveyors in the<br>MACHC region   | Port Surveyors  |
| 2.3   | MBES Processing (5<br>days)  | To train a group of hydrographic<br>surveyors the techniques required to<br>post-process MBES data   | Hydrographic<br>Practioners   |
| 2.4   | MSDI and Database<br>Management (5 days)   | To give participants an<br>understanding of spatial data<br>infrastructures (SDI) including the<br>importance and role of data<br>management and databases   | Government<br>Planners  |
| 2.5   | Tides and Water Level<br>Workshop (5 days)   | To provide fundamental knowledge<br>and understanding of tides and<br>water level, and their applications<br>for hydrographic surveying and<br>mapping activities  | Hydrographic<br>Practioners   |
| 2.6   | Seabed Classification<br>Workshop (5 days)   | To provide a group of professionals<br>with the skill and knowledge to use<br>acoustic techniques to map<br>extensive seabed surfaces and to<br>determine the products of seabed                           | Hydrographic<br>Practioners   |

| Phase | Activity   | Project Objective  | Target Audience                              |
|-------|--|--|--|
|       |  | mapping  |  |
| 3.1   | Basic ENC and ENC<br>Production course (10<br>days)  | To train a group of professionals<br>with a practical introduction to S-57<br>data   | Cartographic<br>Practioners                  |
| 3.2   | ENC Production and QA (5 days)   | To train a group of professionals to verify and validate S-57 data Practioners   |  |
| 4.1   | Law of the Sea<br>Workshop (5 days)  | To teach participants the basic<br>technical principles applicable to<br>maritime boundary delimitation. The<br>delegates should be from technical<br>hydrographic or cartographic<br>backgrounds                                    |  |
| 4.2   | Tsunami inundation<br>mapping workshop (5<br>days)   | To improve the modelling and presentation of regional tsunami inundation maps  | Maritime Sector<br>and emergency<br>planning |
| 4.3   | Foundation Module of<br>the Marine Cartography<br>& Data Assessment<br>(MCDA) CAT B Course<br>(3 weeks)              | To provide participants with the<br>knowledge of cartographic basics<br>covering the underlying details of<br>the nautical chart.  | Cartographic<br>Practioners                  |
| 4.4   | Compilation Module of<br>the Marine Cartography<br>& Data Assessment<br>(MCDA) CAT B Course<br>(5 weeks)             | A highly practical module where the<br>student will compile into a database<br>all the relevant nautical chart<br>content in compliance with IHO S-57<br>using CARIS S-57 Composer<br>software.                                      | Cartographic<br>Practioners                  |
| 4.5   | Product Construction<br>Module of the Marine<br>Cartography & Data<br>Assessment (MCDA)<br>CAT B Course (2<br>weeks) | This module covers the production<br>of an ENC base cell including ENC<br>validation and exchange set<br>creation using CARIS S-57<br>Composer together with the<br>production of a Paper Chart using<br>CARIS Paper Chart Composer. | Cartographic<br>Practioners                  |
| 4.6   | Data Assessment<br>Module of the Marine<br>Cartography & Data<br>Assessment (MCDA)<br>CAT B Course (3<br>weeks)      | This module focuses on decision<br>making and processing of new<br>information using software and<br>traditional checking processes.   | Cartographic<br>Practioners                  |
| 4.7   | Maintenance Module of<br>the Marine Cartography<br>& Data Assessment<br>(MCDA) CAT B Course<br>(2 weeks)             | Another highly practical module<br>which features Notice to Mariner<br>updating of digital and paper<br>products together with New Edition<br>maintenance of the ENC and Paper<br>Chart.   | Cartographic<br>Practioners                  |
|       | Long Courses and<br>Programmes   |  |  |
| HA    | Category "A"<br>Hydrographic<br>Programme  | A recognized CAT A level<br>Programme in accordance with IHO<br>Publication S-5 – <i>Standards of</i><br><i>Competence for Hydrographic</i><br><i>Surveyors</i>  | Hydrographic<br>Managers                     |
| HB    | Category "B"<br>Hydrographic<br>Programme  | A recognized CAT B level<br>Programme in accordance with IHO<br>Publication S-5 – <i>Standards of</i><br><i>Competence for Hydrographic</i><br><i>Surveyors</i>  | Hydrographic<br>Practioners                  |

| Phase | Activity              | Project Objective   | Target Audience             |
|-------|-----------------------|---|-----------------------------|
| CA    | Category "A" Nautical | A recognized CAT A level  | Cartographic                |
|       | Cartography Programme | Programme in accordance with IHO  | Managers                    |
|       |                       | Publication S-8 – Standards of  |                             |
|       |                       | Competence for Nautical   |                             |
| 00    | Ostana "D" Nastia al  | Cartographers   | O anta ana a bia            |
| CB    | Category "B" Nautical | A recognized CAT B level  | Cartographic<br>Practioners |
|       | Cartography Programme | Programme in accordance with IHO<br>Publication S-8 – <i>Standards of</i> | Practioners                 |
|       |                       | Competence for Nautical   |                             |
|       |                       | Cartographers   |                             |
|       | On-the-job and        |   |                             |
|       | onboard training      |   |                             |
| OJ    | On-the-job training   |   |                             |
| OB    | Onboard training      |   |                             |
|       |                       |   |                             |
|       |                       |   |                             |
|       |                       |   |                             |
|       |                       |   |                             |

**3. Capacity Building Program** The program of capacity building activities for the period 2023-2025 is detailed in Annex <u>C</u>.

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## MACHC Counties/Territories Capacity Building Phase Stage

|    |  | NHC or | СВ      | СВ         | CB Phase |         |
|----|--|--------|---------|------------|----------|---------|
|    | Country / Territory                      | NHCC   | Phase 1 | Phase<br>2 | 3        | Last TV |
| 1  | Antigua & Barbuda                        | 2      | 4       | 1          | 3        | 2006    |
| 2  | Bahamas                                  | -1     | 2       | 1          | 3        | 2006    |
| 3  | Barbados                                 | 2      | 4       | 1          | 3        | 2006    |
| 4  | Belize                                   | 1      | 2       | 2          | 3        | 2011    |
| 5  | Brazil                                   | 2      | 4       | 4          | 4        | 2008    |
| 6  | Colombia                                 | -1     | 4       | 4          | 4        | N/R     |
| 7  | Costa Rica                               | -1     | 2       | 1          | 3        | 2011    |
| 8  | Cuba                                     | 1      | 4       | 4          | 4        | N/R     |
| 9  | Dominica                                 | -1     | 2       | 1          | 3        | 2006    |
| 10 | Dominican Republic                       | 1      | 2       | 1          | 3        | 2018    |
| 11 | El Salvador                              | 1      | 1       | 3          | 3        | 2017    |
| 12 | FR - Guadeloupe                          | 2      | 4       | 4          | 4        | N/R     |
| 13 | FR - Martinique                          | 2      | 4       | 4          | 4        | N/R     |
| 14 | FR – Saint Martin                        | 2      | 4       | 4          | 4        | N/R     |
| 15 | FR Saint Barthélemy                      | 2      | 4       | 4          | 4        | N/R     |
| 16 | FR – French Guyana                       | 2      | 4       | 4          | 4        | N/R     |
| 17 | Grenada                                  | 0      | 3       | 1          | 3        | 2006    |
| 18 | Guatemala                                | 2      | 2       | 2          | 3        | 2019    |
| 19 | Guyana                                   | -1     | 4       | 2          | 3        | 2013    |
| 20 | Haiti                                    | -1     | 1       | 4          | 4        | 2017    |
| 21 | Honduras                                 | -1     | 1       | 2          | 3        | 2010    |
| 22 | Jamaica                                  | 2      | 4       | 1          | 3        | 2006    |
| 23 | Mexico                                   | -1     | 4       | 4          | 4        | N/R     |
| 24 | Netherlands - Antilles & Aruba (Leeward) | 2      | 4       | 4          | 4        | N/R     |
| 25 | Netherlands - Antilles<br>(Windward)     | 2      | 4       | 4          | 4        | N/R     |
| 26 | Nicaragua                                | -1     | 2       | 2          | 3        | 2014    |
| 27 | Panama                                   | 1      | 2       | 2          | 3        | 2020    |
| 28 | St. Kitts & Nevis                        | 1      | 4       | 1          | 3        | 2006    |
| 29 | St. Lucia                                | -1     | 4       | 1          | 3        | 2006    |
| 30 | St. Vincent &<br>Grenadines              | 0      | 4       | 1          | 3        | 2006    |
| 31 | Suriname                                 | 2      | 4       | 4          | 3        | 2008    |
| 32 | Trinidad & Tobago                        | -1     | 2       | 1          | 3        | 2006    |
| 33 | UK - Anguilla                            | 1      | 2       | 3          | 3        | 2006    |
| 34 | UK – Bermuda                             | -1     | 2       | 3          | 3        |         |
| 35 | UK - British Virgin                      | -1     | 2       | 3          | 3        | 2006    |
| 36 | UK - Cayman                              | -1     | 2       | 3          | 3        | 2006    |
| 37 | UK - Montserrat                          | 2      | 2       | 3          | 3        | 2006    |

Reference: http://www.iho-ohi.net/mtg\_docs/CB/CBA\_TechnicalVisits.htm

| 38 | UK - Turks & Caicos              | -1 | 2 | 3 | 3 | 2006 |
|----|----------------------------------|----|---|---|---|------|
| 39 | USA - Navassa                    | 0  | 4 | 4 | 4 | N/R  |
| 40 | USA - Puerto Rico & US<br>Virgin | 2  | 4 | 4 | 4 | N/R  |
| 41 | United States of America         | 2  | 4 | 4 | 4 | N/R  |
| 42 | Venezuela                        | -1 | 4 | 4 | 4 | N/R  |

## KEY

1. The numerical grid below describes the status of the National Hydrographic Committee (NHC)/National Hydrographic Coordination Committee (NHCC):

| Value | Assessment   |
|-------|--|
| -1    | No information available                                 |
| 0     | The country does not have a NHC/NHCC                     |
| 1     | The country is in the process of establishing a NHC/NHCC |
| 2     | The country has established a NHC/NHCC                   |

2. The numerical grid below applies to the Phases:

| Value | Assessment   |
|-------|--|
| -1    | No information available   |
| 0     | The country is unaware of its national obligations                 |
| 1     | The country is aware of its national obligations but does not      |
|       | have the means to do it  |
| 2     | The country has some ability to fulfil national obligations        |
| 3     | The country fulfils its national obligations through a third party |
| 4     | The country fulfils its national obligations in a sustainable      |
|       | manner   |

Note: the assessment represented by 3 is an alternative to 4 as explained in the IHO's Capacity Building Strategy – through bilateral agreements a third party may be used to provide a solution for chart production and distribution (for ENCS through RENCs).

3. Those coastal states with a mature hydrographic service and consequently don't require a technical visit are marked as N/R (not required)



## PROJECT SUBMISSION MODEL

**IDENTIFICATION** 

**Project Number:** 

| Project Name:             |  |
|---------------------------|--|
| Submitting RHC/Country:   |  |
| Date:                     |  |
| Institution executing the |  |
| project:                  |  |
| Name of responsible:      |  |
| Address:                  |  |
| Telephone:                |  |
| Fax:                      |  |
| e-mail:                   |  |

## **GENERAL SPECIFICATIONS**

(Please provide detailed information in Annex of no more than three pages)

| Background information       |  |
|------------------------------|--|
| Justification of the project |  |

| <b>.</b>                  |  |
|---------------------------|--|
| Countries involved        |  |
| Exposition of the problem |  |
| General objective         |  |
| Specific objectives       |  |
| Outputs/Products          |  |
| Other deliverables        |  |
| Achievements and awaited  |  |
| benefits                  |  |

| Schedule of activities |  |
|------------------------|--|

#### **RESOURCES**

| Contribution |  |
|--------------|--|
| by countries |  |
| involved     |  |
| Contribution |  |

| From CBC    |  |
|-------------|--|
| Fund (item  |  |
| and amount) |  |

## PROJECT SUMMARY

| Sponsor<br>RHC | Year of<br>Execution | Country/<br>Countries<br>involved | Priority/<br>Status | Project<br>Name | Project<br>Objective | Benefits | Assistance<br>required | Cost | Allocation and<br>Priority (to be<br>filled by CBC) | Contact<br>Person |
|----------------|----------------------|-----------------------------------|---------------------|-----------------|----------------------|----------|------------------------|------|---|-------------------|
|                |                      |                                   |                     |                 |                      |          |                        |      |   |                   |

Name and Signature of the RHC Chairman .....

# **Capacity Building Program for the period 2023-2025**

| 2023   | Capacity building                           | g Program for the pe    | riou 2025-20 | 25  |
|--|---|-------------------------|--------------|---|
| Activity   | Beneficiaries<br>Countries /<br>Territories | Responsible             | Period       | Obs.  |
| High Level<br>Technical Visit  | Dominican<br>Republic                       | MACHC CB<br>Coordinator | 2023         | Funded for<br>delivery in 2021.<br>Postponed due to<br>COVID. To be<br>carried over into<br>2023  |
| High Level<br>Technical Visit  | Jamaica                                     | MACHC CB<br>Coordinator | 2023         | Funded for<br>delivery in 2021.<br>Postponed due to<br>COVID. To be<br>carried over into<br>2023  |
| Technical<br>Assistance Visit  | Honduras                                    | MACHC CB<br>Coordinator | 2023         | Funded for<br>delivery in 2021.<br>Postponed due to<br>COVID. To be<br>carried over into<br>2023  |
| Technical<br>Assistance Visit  | Belize                                      | MACHC CB<br>Coordinator | 2023         | Proposal<br>submitted and<br>funded for<br>delivery in 2023   |
| Technical<br>Assistance Visit  | Cost Rica                                   | MACHC CB<br>Coordinator | 2023         | Proposal<br>submitted and<br>funded for<br>delivery in 2023   |
| Hydrographic<br>Awareness<br>Seminar to<br>precede the main<br>MACHC meeting | For identified coastal states               | MACHC CB<br>Coordinator | 2023         | To date<br>unfunded (Nov<br>22)   |
| Tides Workshop<br>for Spanish<br>Speakers                                    | For identified<br>coastal states            | P. Stone NOAA           | 2023         | Funded for<br>delivery in 2020<br>workplan.<br>Postponed due to<br>COVID. To be<br>carried into 2023.<br>Of importance to<br>region and<br>delivered in<br>conjunction the<br>Intergovernmental<br>Coordination |

| Non IHO Funded Re                                | egional Activities               |  |      | Group for the<br>Tsunami and<br>other Coastal<br>Hazards Warning<br>System for the<br>Caribbean and<br>Adjacent Regions<br>(ICG/CARIBE<br>EWS), the South<br>East Pacific<br>Hydrographic<br>Commission and<br>the South West<br>Atlantic<br>Hydrographic<br>Commission.<br>Date for proposed<br>Delivery Mar 23 |
|--|----------------------------------|--|------|--|
| COCATRAM   | For identified                   | COCATRAM   | 2023 | Funding our nort   |
|  | coastal states                   | COCATRAM   | 2023 | Funding support<br>provided for the<br>Tides Workshop<br>activity  |
| IALA World-Wide<br>Academy                       | For identified<br>coastal states | IALA<br>Gerardine<br>Delanoye -<br>Capacity Building &<br>Resources<br>Manager WWA | 2023 | Online Webinars<br>available via IALA<br>You Tube<br>Channel<br>Requests for<br>technical support<br>can be raised<br>directly with IALA<br>Technical<br>Missions funded<br>by the IALA<br>Worldwide<br>Academy.<br>National<br>Seminars<br>addressing<br>Technical<br>Challenges.                               |
| NOAA Ship<br>Experience<br>'Empowering<br>Women' | For identified<br>coastal States | NOAA   | 2023 | Empowering<br>Women in<br>Hydrography<br>Project   |

| 2024     |               |             |        |      |
|----------|---------------|-------------|--------|------|
| Activity | Beneficiaries | Responsible | Period | Obs. |

|  | Countries / Territories          |                      |      |   |
|--|----------------------------------|----------------------|------|---|
| Technical  | For identified coastal           | MACHC CB Coordinator | 2024 | IHO Funded.   |
| Implementation<br>Visits   | states                           |                      | 2024 | Requested by<br>Coastal States<br>directly with<br>CB<br>Coordinator or<br>via inclusion in<br>National<br>Report   |
| Technical<br>Implementation<br>Visits - Colombia                             | Colombia                         | MACHC CB Coordinator | 2024 | Raised at<br>MACHC22<br>CBC Meeting,<br>Nov 21,<br>submitted and<br>unfunded in<br>2023 workplan.<br><b>Resubmission</b><br>for 2024<br>consideration   |
| Hydrographic<br>Awareness<br>Seminar to<br>precede the main<br>MACHC meeting | For identified coastal states    | MACHC CB Coordinator | 2024 | To precede the<br>MACHC<br>plenary<br>meeting. To<br>assist in raising<br>regional<br>awareness and<br>to address<br>matters<br>important to<br>the region and<br>hydrographic<br>governance  |
| MBES Data<br>Processing<br>Course  | For identified coastal<br>states | MACHC CB Coordinator | 2024 | IHO Part<br>Funded.<br>Raised at<br>MACHC21<br>CBC – With<br>Neighbouring<br>RHCs. Did not<br>receive funding<br>for delivery in<br>2022.<br>Requirement<br>raised in<br>national<br>reports<br>propose to<br>resubmit for<br>delivery in |

|                            |                               | 1  |      | ,  |
|----------------------------|-------------------------------|--|------|--|
|                            |                               |  |      | 2024 – Seek  |
|                            |                               |  |      | additional   |
|                            |                               |  |      | regional   |
|                            |                               |  |      | funding  |
|                            |                               |  |      | support and  |
|                            |                               |  |      | open to  |
|                            |                               |  |      | neighbouring   |
|                            |                               |  |      | RHCs   |
| Data                       | For identified coastal        | MACHC CB Coordinator   | 2024 | For identified   |
| Management                 | states                        |  |      | MACHC  |
| Course                     |                               |  |      | Coastal States.  |
|                            |                               |  |      | And  |
|                            |                               |  |      | Neighbouring   |
|                            |                               |  |      | hydrographic   |
|                            |                               |  |      | Commissions  |
|                            |                               |  |      | South East   |
|                            |                               |  |      | Pacific  |
|                            |                               |  |      | Hydrographic   |
|                            |                               |  |      | Commission   |
|                            |                               |  |      | and the South  |
|                            |                               |  |      | West Atlantic  |
|                            |                               |  |      | Hydrographic   |
|                            |                               |  |      | Commission.  |
| S10X Awareness             | For identified coastal        | MACHC CB Coordinator   | 2024 | For identified   |
| / Production               | states                        |  | 2024 | MACHC and  |
| 71100000001                | 510105                        |  |      | neighbouring   |
|                            |                               |  |      | RHC Coastal  |
|                            |                               |  |      | States   |
| Non IHO Funded F           | Regional Activities           |  |      | olaloo   |
| COCATRAM                   | For identified coastal        | COCATRAM   |      | Funding  |
|                            | states                        |  |      | support is   |
|                            |                               |  |      | available, and   |
|                            |                               |  |      | СВ   |
|                            |                               |  |      | Coordinator  |
|                            |                               |  |      | will work  |
|                            |                               |  |      | COCATRAM to  |
|                            |                               |  |      | identify which   |
|                            |                               |  |      |  |
|                            |                               |  |      | submissions  |
|                            |                               |  |      | -  |
|                            |                               |  |      | submissions  |
| IALA World-Wide            | For identified coastal        | IALA   |      | submissions<br>could be co   |
| IALA World-Wide<br>Academy | For identified coastal states | Gerardine Delanoye -   |      | submissions<br>could be co<br>funded.  |
|                            |                               | Gerardine Delanoye -<br>Capacity Building &                      |      | submissions<br>could be co<br>funded.<br>Online<br>Webinars<br>available via   |
|                            |                               | Gerardine Delanoye -<br>Capacity Building &<br>Resources Manager |      | submissions<br>could be co<br>funded.<br>Online<br>Webinars  |
|                            |                               | Gerardine Delanoye -<br>Capacity Building &                      |      | submissions<br>could be co<br>funded.<br>Online<br>Webinars<br>available via   |
|                            |                               | Gerardine Delanoye -<br>Capacity Building &<br>Resources Manager |      | submissions<br>could be co<br>funded.<br>Online<br>Webinars<br>available via<br>IALA You Tube<br>Channel<br>Requests for |
|                            |                               | Gerardine Delanoye -<br>Capacity Building &<br>Resources Manager |      | submissions<br>could be co<br>funded.<br>Online<br>Webinars<br>available via<br>IALA You Tube<br>Channel                 |
|                            |                               | Gerardine Delanoye -<br>Capacity Building &<br>Resources Manager |      | submissions<br>could be co<br>funded.<br>Online<br>Webinars<br>available via<br>IALA You Tube<br>Channel<br>Requests for |

|  |                                  |      |      | with IALA<br>Technical<br>Missions<br>funded by the<br>IALA<br>Worldwide<br>Academy.<br>National<br>Seminars<br>addressing<br>Technical<br>Challenges. |
|--|----------------------------------|------|------|--|
| NOAA Ship<br>Experience<br>'Empowering<br>Women' | For identified coastal<br>States | NOAA | 2023 | Empowering<br>Women in<br>Hydrography<br>Project.  |

## 2025

| Activity  | Beneficiaries<br>Countries /  | Responsible             | Period | Obs.  |
|---|-------------------------------|-------------------------|--------|---|
| Activity  | Territories                   | Responsible             | renou  | 003.  |
| Technical<br>Implementation<br>Visits                                       | For identified coastal states | MACHC CB<br>Coordinator | 2025   | IHO Funded.<br>Requested by<br>Coastal States<br>directly with CB<br>Coordinator or<br>via inclusion in<br>National Report  |
| MSI Workshop  | For identified coastal states | MACHC CB<br>Coordinator | 2025   | IHO Funded.   |
| Hydrographic<br>Awareness Seminar<br>to precede the main<br>MACHC meeting – | For identified coastal states | MACHC CB<br>Coordinator | 2025   | To precede the<br>MACHC plenary<br>meeting. To<br>assist in raising<br>regional<br>awareness and<br>to address<br>matters<br>important to the<br>region and<br>hydrographic<br>governance |
| Survey Planning<br>Course   | For identified coastal states | MACHC CB<br>Coordinator | 2025   | Additional<br>funding will be<br>sought   |
| ENC Production &<br>Quality Assurance<br>Course                             | For identified coastal states | MACHC CB<br>Coordinator | 2025   |   |
| Non IHO Funded Reg  | ional Activities              |                         |        |   |

| COCATRAM   | For identified coastal states | COCATRAM   |      |   |
|--|-------------------------------|--|------|---|
| IALA World-Wide<br>Academy                       | For identified coastal states | IALA<br>Gerardine<br>Delanoye -<br>Capacity<br>Building &<br>Resources<br>Manager<br>WWA |      | Online<br>Webinars<br>available via<br>IALA You Tube<br>Channel<br>Requests for<br>technical support<br>can be raised<br>directly with<br>IALA Technical<br>Missions funded<br>by the IALA<br>Worldwide<br>Academy.<br>National<br>Seminars<br>addressing<br>Technical<br>Challenges. |
| NOAA Ship<br>Experience<br>'Empowering<br>Women' | For identified coastal States | NOAA   | 2023 | Empowering<br>Women in<br>Hydrography<br>Project.   |