

**20<sup>TH</sup> MEETING OF THE MESO AMERICAN – CARIBBEAN SEA  
HYDROGRAPHIC COMMISSION (MACHC20)  
Santo Domingo, Dominican Republic – 3-6 December 2019**

**NATIONAL REPORTS FROM CUBA TO THE MACHC20**

References:

- A. IHO Resolution 2/1997 as amended (see doc. C3-04.2A, [Appendix to Annex A](#))
- B. IHO Circular Letter 20/2019, The IHO online form system for responses to Circular Letters and input to IHO Publications (P-5 and C-55): [link](#)  
Online system for P-5 (Yearbook): [link](#)  
Online system for C-55 (Status of Surveys and Charting Worldwide): [link](#)

**Executive summary**

1. Hydrographic Office / Service:
  - a) Name of the institution: [Hydrography and Geodesy National Office]
  - b) Description: [*General description, including updates for the IHO Yearbook e.g. reorganization*]
  - c) Submitted by: [Jorge Martín Ruiz, hg@unicom.co.cu]

Detailed information to update IHO Publication P-5 (*Yearbook*) is submitted in Annex A (alternatively, use the online system, reference B). Please indicate "no change" in Annex A if this is the case.

2. Surveys:
 

[*Describe any significant developments since the last RHC meeting in surveys related to the items below*]

  - a) Coverage of new surveys:
  - b) New technologies and /or equipment
  - c) New ships
  - d) Crowdsourced and satellite-derived bathymetry - national policy
  - e) Challenges and achievements

Detailed information about surveys to update IHO Publications P-5 (*Yearbook*) and C-55 (*Status of Hydrographic Surveying and Charting Worldwide*) is submitted in Annexes A and B, respectively (alternatively, use the online system, reference B). Please indicate "no change" in Annexes A and B if this is the case.

3. New charts & updates:
 

[*Describe any significant developments since the last RHC meeting in charting related to the items below*]

  - a) ENC coverage, gaps and overlaps
  - b) ENC distribution method
  - c) RNCs
  - d) INT charts
  - e) National paper charts
  - f) Other charts, e.g. for pleasure craft
  - g) Challenges and achievements

Detailed information about charting to update IHO Publications P-5 (*Yearbook*) and C-55 (*Status of Hydrographic Surveying and Charting Worldwide*) is submitted in Annexes A and B, respectively (alternatively, use the online system, reference B). Please indicate "no change" in Annexes A and B if this is the case.

4. New publications & updates:

*[Describe any significant developments since the last MACHC meeting in nautical publications related to the items below]*

- a) New Publications
- b) Updated publications
- c) Means of delivery, e.g. paper, digital
- d) Challenges and achievements

Detailed information to update IHO Publication P-5 (*Yearbook*) is submitted in Annex A (alternatively, use the online system, reference B). Please indicate "no change" in Annex A if this is the case.

5. MSI

*[Describe the status of Maritime Safety Information (MSI) related to the items below]*

- a) Existing infrastructure for MSI dissemination
- b) Statistics on work of the National Coordinator
- c) New infrastructure in accordance with GMDSS Master Plan
- d) Challenges and achievements

Detailed information about MSI to update IHO Publication C-55 (*Status of Hydrographic Surveying and Charting Worldwide*) is submitted in Annex B (alternatively, use the online system, reference B). The national self-assessment of MSI is submitted in Annex C. Please indicate "no change" in Annexes B and C if this is the case.

6. C-55

The table with the latest information to update IHO Publication C-55 (*Status of Hydrographic Surveying and Charting Worldwide*) is provided in Annex B (alternatively, use the online system, reference B). Please indicate "no change" in Annex B if this is the case.

7. Capacity Building

*[Describe the need for or ability to offer Capacity Building in relation to the items below]*

- a) Offer of and/or demand for Capacity Building
- b) Training received, needed, offered
- c) Status of national, bilateral, multilateral or regional development projects with a hydrographic component. (In progress, planned, under evaluation or study)
- d) Description of proposals and requests to the IHO/CBSC

8. Oceanographic activities

*[Describe any significant developments in oceanographic activity since the last MACHC meeting related to the items below]*

- a) General
- b) GEBCO/IBC's activities, GEBCO Seabed 2030 activities
- c) Tide gauge network

- d) New equipment
- e) Challenges and achievements

9. Spatial data infrastructures

- a) Status of MSDI
- b) Relationship with the NSDI
- c) Involvement in regional or global MSDI efforts
- d) National implementation of the Shared Data Principles – including any national data policy and impact on marine data.
- e) MSDI national portal
- f) Best practices and lessons learned
- g) Challenges and achievements

10. Innovation

- a) Use of new technologies
- b) Risk assessment
- c) Policy matters

11. Other activities

*[Describe any other significant developments of interest to the MACHC since the last meeting related to the items below]*

- a) Participation in IHO meetings
- b) Meteorological data collection
- c) Geospatial studies
- d) Preparation for responses to disasters
- e) Environmental protection
- f) Engagement with the Maritime Administration
- g) Aids to Navigation matters
- h) Magnetic and gravity surveys
- i) International engagements
- j) Others

12. Conclusions

*[Provide a short summary statement that highlights any of the following:*

- a) Areas of significant achievement*
- b) Areas of particular concern*
- c) Any other matters of interest to the MACHC]*

Input to the IHO Publication P-5 (*Yearbook*)Country: CUBAOrganization: Servicio Hidrográfico y Geodésico de la República de Cuba

(Please provide the information in English)

| <b>Contact information/ Informations de contact / Información de contacto</b>   |  |
|---|--|
| -National Hydrographer or equivalent<br>-Directeur du service hydrographique ou équivalent<br>-Director del Servicio Hidrográfico o equivalente   | Director<br>Name: Jorge MARTÍN RUIZ.<br>Postal address: 19th Avenue and 84th Street, 3rd floor south wing Playa, Havana. Cuba<br>Tel: +53 7 209 0926<br>Fax: -<br>Email: hg@unicom.co.cu |
| -Head of the Hydrographic Office (if different from the person indicated above)<br>-Directeur du Service Hydrographique (si différent de la personne indiquée ci-dessus)<br>-Director del Servicio Hidrográfico (si diferente de la persona indicada anteriormente) | Post: -<br>Name: -<br>Postal address: -<br>Tel: -<br>Fax: -<br>Email: -  |
| -Other point(s) of contact<br>-Autre(s) point(s) de contact<br>-Otros punto(s) de contacto  | - Head of the Hydrographic and Aids to Navigation Department. MSc. Diógenes LÓPEZ ALMEIDA.<br><br>- Head of Geodetic and Cartographic Department. MSc. Fernando GUANCHE DEL VALLE.       |
| -Web site<br>-site web<br>-sitio web  |  |
| <b>Country information / Informations sur le pays/ Información sobre el país</b>  |  |
| -Declared National Tonnage<br>-Tonnage national déclaré<br>-Tonelaje Nacional Declarado   | Tonnage:<br>Date:  |
| -National day<br>-Fête nationale<br>-Fiesta nacional  | 1 January  |
| -Date of establishment and Relevant National Legislation<br>-Date de mise en place et législation nationale pertinente<br>-Fecha de constitución y legislación nacional pertinente  |  |
| -Date first joined IHO<br>-Date d'adhésion à l'OHI<br>-Fecha de adhesión a la OHI   | 20/04/1950   |

|   |   |
|---|---|
| -Date ratification Convention<br>-Date de ratification de la Convention<br>-Fecha de ratificación de la Convención  | 20/12//1967   |
| -Remarks on membership<br>-Remarques sur l'adhésion<br>-Comentarios sobre la adhesión   |   |
| <b>Agency information/ Information sur l'agence/ Información sobre la agencia</b>   |   |
| -Top level parent organisation<br>-Organisme mère<br>-Organización asociada de nivel superior   | Ministry of Revolutionary Armed Forces  |
| -Principal functions of the organisation or the department<br>-Attribution principales de l'organisme ou du département<br>-Principales funciones de la Organización o departamento | Supervision and control of the goverment policy in the execution of hydrographic surveys, cartography, total, geodesy and for ais to navegation activities.   |
| -Annual operating budget<br>-Budget annuel<br>-presupuesto anual  |   |
| -Total number of staff employed<br>-Effectifs totaux<br>-Número total de personal empleado  |   |
| -Number of INT charts published<br>-Nombres de cartes INT publiées<br>-Número de cartas INT publicadas  | 4   |
| -Total number of paper charts published<br>-Nombre total de cartes papier publiées<br>-Número total de cartas de papel publicadas   | 186   |
| -Number of ENC cells published<br>-Nombres de cellules ENC publiées<br>-Número de células ENC publicadas  | 45  |
| -Number of Other charts<br>-Nombre d'Autres cartes<br>-Número de Otras cartas   | 186   |
| -Type of publications produced<br>-Type d'ouvrages produits<br>-Tipo de publicaciones producidas  | <ul style="list-style-type: none"> <li>- Notice to mariners (monthly).</li> <li>- Annual summary notice to mariners.</li> <li>- Lights list of cuba.</li> <li>- Sailing direction (9 fascicles).</li> <li>- Tide tables of cuba.</li> </ul> |

|  |   |  |  |  |
|--|---|--|--|--|
|  | <ul style="list-style-type: none"> <li>- Nautical almanac.</li> <li>- Symbols, abbreviations and terms used on charts (int1).</li> <li>- Charts and nautical publications catalogue.</li> <li>- Official yachting charts (leisure)</li> </ul> |  |  |  |
| <ul style="list-style-type: none"> <li>-Detail of surveying vessels/<br/>aircraft</li> <li>-Détail des bâtiments<br/>hydrographiques / aéronefs</li> <li>-Detalle de los buques<br/>hidrográficos / aeronaves</li> </ul> | <ul style="list-style-type: none"> <li>-Name</li> <li>-Nom</li> <li>-Nombre</li> </ul>  | <ul style="list-style-type: none"> <li>-Displacement</li> <li>-Déplacement</li> <li>-Desplazamiento</li> </ul> | <ul style="list-style-type: none"> <li>-Date<br/>Launched</li> <li>-Date de<br/>mise en<br/>service</li> <li>-Fecha de<br/>botado</li> </ul> | <ul style="list-style-type: none"> <li>-Number of<br/>crew</li> <li>-Nombre de<br/>l'équipage</li> <li>-Tripulación</li> </ul> |
|  | H-102<br>Taíno  | 1123   | 1979   | 21   |
|  | H-111<br>GEOMAR   | 211  | 1980   | 8  |
|  | H-94  | 125  | 1969   | 8  |
|  | H-95  | 125  | 1969   | 8  |
|  | H-96  | 125  | 1969   | 8  |
|  | H-85  | 200  | 1990   | 9  |
|  | H-87  | 800  | 1990   | 9  |
|  | H-116   | 400  | 1983   | 10   |
| <ul style="list-style-type: none"> <li>-Other information of interest</li> <li>-Autres informations utiles</li> <li>-Otra información de interés</li> </ul>  |   |  |  |  |

Input to the IHO Publication C-55 (*Status of Hydrographic Surveying and Charting Worldwide*)

Country: Cuba

(Please provide the information in English)

| <b>C-55 Summary for:</b>                         |                     |                     |                      | <b>Comments on Charts:</b>  |
|--|---------------------|---------------------|----------------------|-----------------------------|
| Country:   | Cuba                |                     |                      |                             |
| Country Iso Code:                                | CU                  |                     |                      |                             |
| Country SubCode:                                 | 1                   |                     |                      |                             |
| INT Region:                                      | 1                   |                     |                      |                             |
| Country/Depend:                                  |                     |                     |                      |                             |
| Last updated:                                    | December 2019       |                     |                      |                             |
| Provided by:                                     |                     |                     |                      |                             |
| <b>Chart coverage</b>                            | <b>Passage (%)</b>  | <b>Coastal (%)</b>  | <b>Port (%)</b>      | <b>Comments on Surveys:</b> |
| INT  |                     |                     |                      |                             |
| RNC  |                     |                     |                      |                             |
| ENC  |                     |                     |                      |                             |
| <b>Status of Paper Charts</b>                    |                     |                     |                      |                             |
| Paper charts with depths in meters (%)           |                     |                     |                      |                             |
| Paper charts referenced to a satellite datum (%) |                     |                     |                      |                             |
| <b>Status of surveys</b>                         | <b>Adequate (%)</b> | <b>Resurvey (%)</b> | <b>No survey (%)</b> |                             |
| 0-200m   |                     |                     |                      |                             |
| > 200m   |                     |                     |                      |                             |

| <b>MSI</b>      | <b>Y/N</b> | <b>Comments on MSI:</b>   |
|-----------------|------------|---------------------------|
| Local warning   |            |                           |
| Coastal warning |            |                           |
| Nav warning     |            |                           |
| Port warning    |            |                           |
| <b>GMDSS</b>    | <b>Y/N</b> | <b>Comments on GMDSS:</b> |
| Master Plan     |            |                           |
| Area A1         |            |                           |
| Area A2         |            |                           |
| Area A3         |            |                           |
| NAVTEX          |            |                           |
| SafetyNet       |            |                           |

## National MSI Self-Assessment

Country: \_\_\_\_\_

Organization: \_\_\_\_\_

(Please provide the information in English)

## 1. Maritime area

*[Describe maritime area including details of the geographic boundaries]*

## 2. Operational Points of Contact for the National Coordinator

| INSTITUTION | TELEPHONE | FACSIMILE | EMAIL |
|-------------|-----------|-----------|-------|
|             |           |           |       |

## 3. GMDSS Master Plan

*[Report on the status of the GMDSS Master Plan: Is it up to date? When was the last update?]**[Specifics of equipment used and software version with date up-dated]*

| Equipment Type for Ports and Local Area | Software Version | Date of Up-date |
|---|------------------|-----------------|
|   |                  |                 |
|   |                  |                 |
|   |                  |                 |

*[Detail the number of warnings identified as immediate priority (requiring transmission within 30 minutes) and the average elapsed time for passing to NAVAREA coordinator, as reported to the last RHC meeting]:*

| Year Y-2 |                      | Year Y-1 |                      | Year Y |                      |
|----------|----------------------|----------|----------------------|--------|----------------------|
| Total    | Average elapsed time | Total    | Average elapsed time | Total  | Average elapsed time |
| xx       | xx.x Mins            | xx       | xx.x Mins            | xx     | xx.x Mins            |

## 4. NAVTEX Coverage:

*[Diagram of NAVTEX stations and service areas within maritime area; Contact details for NAVTEX Stations; Confirm operational status has been validated.]*

## 5. Operational Issues:

*[New infrastructure in accordance with GMDSS Master Plan; Problems encountered?]*



6. Contingency Planning

*[Provide information regarding contingency plans that have been established and future plans where appropriate. Also report on any testing of the plan that has been conducted]*

7. Capacity Building

*[Demands for Capacity Building, Training requested or received, any offered, status of national, bilateral, multilateral or regional development projects with MSI component]*

8. Other Activities

*[Participation in other IHO or IMO Working Groups, Regional Hydrographic Commissions, regional conferences related to MSI over past year]*

9. National Maritime Website

*[(Address, statistics (if permitted by national legislation; how often is the information on your web site updated? Do you display the date and time of the last update on your web site?)]*

10. Recommendations

*[If any]*

11. Summary

*[Please provide a short summary of this paper which will be included in the final report of the meeting.]*