

**20TH MEETING OF THE MESO AMERICAN – CARIBBEAN SEA
HYDROGRAPHIC COMMISSION (MACHC20)
Santo Domingo, Dominican Republic – 3-6 December 20189**

NATIONAL REPORTS FROM COSTA RICA 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:
National Geographic Institute of Costa Rica.
- b) Description:
It is the leading scientific and technical unit of the national cartography, destined for the execution of the official Basic Map and the Basic Geographical Description of the Republic of Costa Rica and for studies, research or work and the development of national cartographic, geographic policies, geodesic, geophysical and similar in nature that is related to these works, to support the planning processes.
- c) Submitted by:
Marvin Chaverri Sandoval, Vice Principal of the National Geographic Institute from Costa Rica; mchaverri@rnp.go.cr

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:
Not applicable.
- b) New technologies and /or equipment:
Not applicable.
- c) New ships:
Not applicable.
- d) Crowdsourced and satellite-derived bathymetry - national policy:
Not applicable.
- e) Challenges and achievements:
Challenges:
 - Create a National Hydrography Committee, or any other similar structure.

- That this structure, elaborate a work plan for hydrographic development, the elaboration and publication of nautical charts and actions for the strengthening of navigation safety.
- Establish international cooperation agreements for the development of hydrographic surveys and the production of nautical charts.

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:
Not applicable.
- b) ENC distribution method:
Not applicable.
- c) RNCs:
Not applicable.
- d) INT charts:
Not applicable.
- e) National paper charts:
Not applicable.
- f) Other charts, e.g. for pleasure craft:
Not applicable.
- 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:
Not applicable.
- b) Updated publications:
Not applicable.
- c) Means of delivery, e.g. paper, digital:
Not applicable.
- 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:
Important maritime safety information is disseminated to navigators, through the publication of notices on the website of the Ministry of Public Works and Transportation.
- b) Statistics on work of the National Coordinator:
Not applicable.
- c) New infrastructure in accordance with GMDSS Master Plan:
Not applicable.
- 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:
Training is required for specialization in nautical chart development, as well as in CADET B.
- b) Training received, needed, offered:
See previous point.
- c) Status of national, bilateral, multilateral or regional development projects with a hydrographic component. (In progress, planned, under evaluation or study):
A cooperation agreement with the United Kingdom Hydrographic Office (UKHO) is under study to promote cooperation in the field of marine geospatial information, hydrography and related disciplines.
- d) Description of proposals and requests to the IHO/CBSC:
A specialized course is required for the development of digital nautical cartography and the processing of nautical information.

8. Oceanographic activities

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

- a) General:
Bathymetric surveys were carried out in Quepos and Culebra Bay and in this month of November 2019, bathymetric surveys will be carried out in Jaco.
- b) GEBCO/IBC's activities, GEBCO Seabed 2030 activities:
There are no cooperation activities with GEBCO.
- c) Tide gauge network:
No tide gauges have been purchased.
- d) New equipment:

Not applicable.

- e) Challenges and achievements

9. Spatial data infrastructures

- a) Status of MSDI:

There is no Marine Spatial Data Infrastructure (MSDI).

- b) Relationship with the NSDI:

No relationship.

- c) Involvement in regional or global MSDI efforts:

We have not participated.

- d) National implementation of the Shared Data Principles – including any national data policy and impact on marine data:

Not applicable.

- e) MSDI national portal:

There is not.

- f) Best practices and lessons learned:

Not applicable.

- g) Challenges and achievements:

Start with the creation of a Marine Spatial Data Infrastructure (MSDI).

10. Innovation

- a) Use of new technologies:

Not applicable.

- b) Risk assessment:

Not applicable.

- c) Policy matters:

Not applicable.

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:

Not applicable.

- b) Meteorological data collection:

It is done by the Costa Rican Meteorological Institute.

- c) Geospatial studies:

No data.

- d) Preparation for responses to disasters:

In charge of the National Commission for Risk Prevention and Emergency Assistance.

- e) Environmental protection:

In charge of the Ministry of Environment and Energy.

- f) Engagement with the Maritime Administration:

Not applicable.

- g) Aids to Navigation matters:

The Maritime Port Division of the Ministry of Public Works and Transportation has a database of all floating and land navigation aids in ports nationwide. This information is obtained through each port.

- h) Magnetic and gravity surveys:

A materialized network of points was established in the Costa Rican territory with their respective absolute gravity value to serve as a reference for relative gravimetric surveys in the future.

- i) International engagements:
Not applicable.
- 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]*

There is no organization in Costa Rica that is regularly responsible for the execution of hydrographic surveys for the updating of nautical charts.

There is no system for handling and disseminating sensitive information for navigation security.

There is no National Hydrographic Committee that is responsible for everything related to the hydrography of the country, which endeavors and plans the actions.

Input to the IHO Publication P-5 (*Yearbook*)

Country: Costa Rica

Organization: National Geographic Institute of Costa Rica

(Please provide the information in English)

Contact information/ Informations de contact / Información de contacto	
-National Hydrographer or equivalent -Directeur du service hydrographique ou équivalent -Director del Servicio Hidrográfico o equivalente	Post: Director of the National Geographic Institute of Costa Rica. Name: Max A. Lobo Hernández Postal address: 523-2010 San José - Costa Rica Tel: (506) 2202-0601 Fax: (506) 2202-0668 Email: mlobo@rnp.go.cr
-Head of the Hydrographic Office (if different from the person indicated above) -Directeur du Service Hydrographique (si différent de la personne indiquée ci-dessus) -Director del Servicio Hidrográfico (si diferente de la persona indicada anteriormente)	Post: Vice Principal of the National Geographic Institute from Costa Rica. Name: Marvin Chaverri Sandoval Postal address: 523-2010 San José - Costa Rica Tel: (506) 2202-0667 Fax: (506) 2202-0668 Email: mchaverri@rnp.go.cr
-Other point(s) of contact -Autre(s) point(s) de contact -Otros punto(s) de contacto	
-Web site -site web -sitio web	www.rnpdigital.com
Country information / Informations sur le pays/ Información sobre el país	
-Declared National Tonnage -Tonnage national déclaré -Tonelaje Nacional Declarado	Tonnage: No data. Date:
-National day -Fête nationale -Fiesta nacional	Not applicable.
-Date of establishment and Relevant National Legislation -Date de mise en place et législation nationale pertinente -Fecha de constitución y	No data.

legislación nacional pertinente	
-Date first joined IHO -Date d'adhésion à l'OHI -Fecha de adhesión a la OHI	Not applicable.
-Date ratification Convention -Date de ratification de la Convention -Fecha de ratificación de la Convención	Not applicable.
-Remarks on membership -Remarques sur l'adhésion -Comentarios sobre la adhesión	Not applicable.
Agency information/ Information sur l'agence/ Información sobre la agencia	
-Top level parent organisation -Organisme mère -Organización asociada de nivel superior	National Geographic Institute of Costa Rica.
-Principal functions of the organisation or the department -Attribution principales de l'organisme ou du département -Principales funciones de la Organización o departamento	It is the leading scientific and technical unit of the national cartography, destined for the execution of the official Basic Map and the Basic Geographical Description of the Republic of Costa Rica and for studies, research or work and the development of national cartographic, geographic policies, geodesic, geophysical and similar in nature that is related to these works, to support the planning processes.
-Annual operating budget -Budget annuel -presupuesto anual	\$ 3.733.700,00 approximately.
-Total number of staff employed -Effectifs totaux -Número total de personal empleado	29
-Number of INT charts published -Nombres de cartes INT publiées -Número de cartas INT publicadas	0
-Total number of paper charts published-Nombre total de cartes papier	6 nautical charts prepared by the National Geographic Institute and published by the United States Defense Mapping Agency.

publiées-Número total de cartas de papel publicadas				
-Number of ENC cells published -Nombres de cellules ENC publiées -Número de células ENC publicadas	0			
-Number of Other charts -Nombre d'Autres cartes -Número de Otras cartas	Not applicable.			
-Type of publications produced -Type d'ouvrages produits -Tipo de publicaciones producidas	Not applicable.			
-Detail of surveying vessels/ aircraft -Détail des bâtiments hydrographiques / aéronefs -Detalle de los buques hidrográficos / aeronaves	-Name -Nom -Nombre	-Displacement -Déplacement -Desplazamiento	-Date Launched -Date de mise en service -Fecha de botado	-Number of crew -Nombre de l'équipage -Tripulación
	Not applicable.			
-Other information of interest -Autres informations utiles -Otra información de interés				

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

Country: Costa Rica

(Please provide the information in English)

C-55 Summary for:				Comments on Charts: Not applicate.
Country:				
Country Iso Code:				
Country SubCode:				
INT Region:				
Country/Depend:				
Last updated:				
Provided by:				
Chart coverage	Passage (%)	Coastal (%)	Port (%)	Comments on Surveys: Not applicate.
INT				
RNC				
ENC				
Status of Paper Charts				
Paper charts with depths in meters (%)				
Paper charts referenced to a satellite datum (%)				
Status of surveys	Adequate (%)	Resurvey (%)	No survey (%)	
0-200m				
> 200m				

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

National MSI Self-Assessment

Country: Costa RicaOrganization: National Geographic Institute from Costa Rica.

(Please provide the information in English)

1. Maritime area

The International Maritime Boundary is made up of lines that define international boundaries within the oceanic masses. They are drawn according to the geographical coordinate points embodied in the maritime boundary treaties with the countries involved.

In the Pacific Ocean there are ratified maritime boundaries with Panama, Colombia, Ecuador, Nicaragua and with international waters.

The limit with Nicaragua is the result of the sentence issued by the International Court of Justice, based in The Hague, The Netherlands, dated February 2, 2018.

The maritime limits with Panama and Nicaragua have been ratified in the Caribbean Sea, the latter being the result of the ruling issued by the International Court of Justice, based in The Hague, The Netherlands, dated February 2, 2018.

2. Operational Points of Contact for the National Coordinator

INSTITUTION	TELEPHONE	FACSIMILE	EMAIL
National Geographic Institute from Costa Rica	(506)2202-0601	(506)2202-0668	SecretariadelInstitutoGeograficoNacional@rnp.go.cr

3. GMDSS Master Plan

[Report on the status of the GMDSS Master Plan: Is it up to date? When was the last update?]
Not applicable.

[Specifics of equipment used and software version with date up-dated]

Equipment Type for Ports and Local Area	Software Version	Date of Up-date
Not applicable.		

[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]:

No data.

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.]

Not applicable.

5. Operational Issues:

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

Not applicable.

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]

Not applicable.

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]

Training is required for specialization in nautical chart development, as well as in CADET B.

A cooperation agreement with the United Kingdom Hydrographic Office (UKHO) is under study to promote cooperation in the field of marine geospatial information, hydrography and related disciplines.

8. Other Activities

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

Not applicable.

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?)]

Not applicable.

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.]

There is no organization in Costa Rica that is regularly responsible for the execution of hydrographic surveys for the updating of nautical charts.

There is no system for handling and disseminating sensitive information for navigation security.

There is no National Hydrographic Committee that is responsible for everything related to the hydrography of the country, which endeavors and plans the actions.