

EL SALVADOR, NATIONAL REPORT TO REGIONAL HYDROGRAPHIC COMMISSIONS

- References:
1. IHO Resolution 2/1997 as amended.
 2. Statutes of the MACHC
 3. MACHC Letter 09/2021 – Virtual MACHC22 Conference.
 4. MACHC Letter 10/2021. September 27, 2021

The following structure is to be used for National Reports made to RHC meetings:

Executive summary

1. Hydrographic Office / Service: General, including updates for the IHO Yearbook e.g. reorganization.
 - a) Name of the institution: ***Instituto Geográfico y del Catastro Nacional - Centro Nacional de Registros***
 - b) Description: Entidad oficial encargada de realizar investigaciones y estudios geográficos siendo la responsable de mantener actualizada la información Geográfica, Cartográfica, Catastral, Fotogramétrica, Geodésica e Hidrográfica, así como brindar apoyo técnico para la delimitación municipal y de Fronteras.

Official entity in charge of carrying out research and geographic studies, being responsible for keeping the Geographic, Cartographic, Cadastral, Photogrammetric, Geodetic and Hydrographic information updated, as well as providing technical support for the municipal and border delimitation.
 - c) Submitted by:
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Note: use the available template for updates to the Yearbook or the online system.

Use separate sections if more than one national HO works within region for a single Member State.

2. Surveys: **Coverage of new surveys.**

La Comisión Ejecutiva Portuaria Autónoma (CEPA) ha hecho efectivo su plan de mantenimiento batimétrico y el monitoreo del diseño de circulación vigente hacia el puerto de La Unión.

The Autonomous Executive Port Commission (CEPA) has implemented its bathymetric maintenance plan and monitoring of the current circulation design towards the port of La Unión.

New technologies and /or equipment.

La Comisión Ejecutiva Portuaria Autónoma (CEPA) ha adquirido un sistema batimétrico monohaz con barrido lateral, a fin de atender sus necesidades en la actividad de los Puertos que administra.

The Autonomous Executive Port Commission (CEPA) has acquired a single beam bathymetric system with lateral scanning, in order to meet its needs in the activity of the Ports it manages

New ships.

Crowdsourced and satellite-derived bathymetry - national policy.

Challenges and achievements.

3. New charts & updates: ENC coverage, gaps and overlaps.

ENC distribution method.
RNCs.
INT charts.
National paper charts.
Other charts, e.g. for pleasure craft.
Challenges and achievements.

4. New publications & updates: **New Publications.**
Almanaque de Mareas 2022.
Tidal Almanac 2022
Updated publications.
Means of delivery, e.g. paper, digital.
Challenges and achievements.
5. MSI:
Existing infrastructure for MSI dissemination.
Statistics on work of the National Coordinator.
New infrastructure in accordance with GMDSS Master Plan.
Challenges and achievements.
Note: Use the WWNWS template for this section.
6. C-55:
Latest update.
Note: use the available template to update C-55 or the online system.
7. Capacity Building: **Offer of and/or demand for Capacity Building.**
Con el beneficio de:
Capacitaciones necesarias:
- *Cartografo Nautico categoria B*
- *Capacitación en Cartas Náuticas*
- *Capacitacion en levantamientos hidrograficos*
With the benefit of:
Required trainings:
- *Nautical Cartographer category B*
- *Training in Nautical Charts*
- *Training in hydrographic surveys*
Training received, needed, offered.
Status of national, bilateral, multilateral or regional development projects with hydrographic component. (In progress, planned, under evaluation or study).
Definition of proposals and requests to the IHO CBSC.
8. Oceanographic activities: General.
GEBCO/IBC's activities, GEBCO Seabed 2030 activities. **Tide gauge network.**

Se mantienen en operación tres (3) mareógrafos con información disponible en la web. Se vuelve

necesario el reemplazo del mareógrafo en la Base Naval de La Unión, por ambigüedad en el manejo de sus datos.

There are three tide gauges network in operation, but one in the Navy Force Base need to be change, because the download data is not functional at network.

New equipment.

Challenges and achievements.

9. Spatial data infrastructures: Status of MSDI.

Relationship with the NSDI.

Involvement in regional or global MSDI efforts.

National implementation of the Shared Data Principles – including any national data policy and impact on marine data.

MSDI national portal.

Best practices and lessons learned.

Challenges and achievements.

10. Innovation:

Use of new technologies. Risk assessment.

Policy matters.

11. Other activities:

Participation in IHO meetings.

Meteorological data collection.

Geospatial studies.

Preparation for responses to disasters.

Environmental protection.

Engagement with the Maritime Administration. **Aids to Navigation matters.**

En Septiembre-2021 se recibió en El Salvador una inspección por parte de IALA para investigar y diagnosticar el estado de nuestras Ayudas a la Navegación (AtoN) apoyar aspectos legales y reiterar la importancia de estas para la seguridad de la navegación. La misión fue coordinada por la Autoridad Marítima Portuaria (AMP).

In September-2021 El Salvador received an inspection by IALA to investigate and diagnose the status of our Aids to Navigation (AtoN), supporting legal aspects and reiterating their importance for the safety of navigation. The mission was coordinated by Maritime Port Authority (AMP).

Magnetic and gravity surveys. International engagements.

Etc.

12. Conclusions:

Tener una activa participación en las conferencias de la Comisión Hidrográfica de Mesoamérica y Mar Caribe representa un apoyo fundamental para la conformación de nuestros planes y el apoyo para ellos, así como para la ejecución de los levantamientos hidrográficos, tener personal capacitado y certificado, a fin de que estos transmitan los conocimientos adquiridos mediante la realización de proyectos hidrográficos, efectos multiplicadores y talleres. También nos acerca a la recuperación de la capacidad de hacer hidrografía y actualizar nuestras propias cartas náuticas, con el apoyo de formación y realización de proyectos en conjunto. La contribución de la OHI, MACHC, FOCAHIMECA y COCATRAM pueden hacer capaz a nuestro personal en actividades hidrográficas, lo que es indispensable para nuestro desarrollo institucional en el tema.

Se necesita la actualización de toda la cartografía náutica de las Costas y Puertos del país.

Having an active participation in the conferences of the Hydrographic Commission of Mesoamerica and the Caribbean Sea represents a fundamental support for the conformation of our plans and the support for them, as well as for the execution of hydrographic surveys, to have trained and certified personnel, in order to that these transmit the knowledge acquired through the realization of hydrographic projects, multiplier effects and workshops. It also brings us closer to recovering the ability to do hydrography and update our own nautical charts, with the support of training and realization of joint projects. The contribution of the IHO, MACHC, FOCAHIMECA and COCATRAM can make our staff capable of hydrographic activities, which is essential for our institutional development in this area.

The update of all the nautical cartography of the Coasts and Ports of the country is needed.