



**IHO**

International  
Hydrographic  
Organization



# 16th Conference of the EAtHC / *16<sup>ème</sup> Conférence de la CHAtO*

**National Report**

**Spain**

**Instituto Hidrográfico de la Marina**

**Agenda Item 6**



IHO

# FRAMEWORK / GENERAL INFORMATION

International  
Hydrographic  
Organization



<http://www.armada.mde.es/ihm>

EAtHC16, Hybrid, Lisbon, 29 September – 1 October 2021





**IHO**

## **FRAMEWORK / GENERAL INFORMATION**

International  
Hydrographic  
Organization

### **National Hydrographic services responsibilities**

- Hydrographic surveys, oceanographic works and studies of submarine relief.
- Nautical charts and aid navigation publications.
- Notices to Mariners.
- Study tides, currents, temperatures and acoustic propagation.
- Acting as coordinator NAVAREA III.
- GEOMETOC.
- Representing Spain in the IHO
- Geographical and hydrographic work of interest to the Navy.



**IHO**

# **FRAMEWORK / GENERAL INFORMATION**

International  
Hydrographic  
Organization

## **Relationship with IHO**

### **Council member:**

- EAtHC 2017-2019.
- MBSHC 2020 - now

### **Hydrographic Commissions:**

- HCA
- EAtHC
- MBSHC currently Chair and NAVAREA III

### **Coordinator**

- MACHC as observer

### **Other IHO committees & working groups:**

- HSSC
- IRCC
- ENC-WG
- S-100 WG
- NIPWG
- NCWG
- TWLWG
- WWNWS
- MSDIWG
- CBSC
- IENWG



**IHO**

# **FRAMEWORK / GENERAL INFORMATION**

International  
Hydrographic  
Organization

## **Relationship with other relevant national organizations**

- **NATO**
  - Geospatial Maritime Working Group (GMWG)
  - Defence Maritime Geospatial Exchange Model (DMGEM)
  - AML Co-Production Program (NACPP) (Additional Military Layers)
  - Military Oceanography Working Group (MILOC)
- **Bilateral agreements:**
  - France
  - Portugal (almost ready)
  - UK (almost ready)
  - Algeria (in progress)



**IHO**

# TOP ACHIEVEMENT SINCE EATHC15

International Hydrographic Organization

- Since EAtHC15 IHM has produced 35 ENC's within the area

| General (P2)       | Coastal (P3)       | Approach (P4)      | Harbour (P5)        | Berthing (P6)    | TOTAL                   |
|--------------------|--------------------|--------------------|---------------------|------------------|-------------------------|
| 3                  | 2                  | 6                  | 23                  | 1                | 35                      |
| 100 %<br>Published | 100 %<br>Published | 100 %<br>Published | 83,5 %<br>Published | 7 %<br>Published | 29 New Ed.<br>6 New ENC |



- Increasing workload associated with maintaining and updating the ENC catalog, which slows the production of new ENC's

| NUMBER   | TITLE                           |
|----------|---------------------------------|
| ES540501 | Puerto de Cudillero             |
| ES541513 | Puerto de Portosín              |
| ES541301 | Islas Sisargas                  |
| ES540401 | Puerto de Candás                |
| ES541201 | Puerto de Malpica               |
| ES506102 | Puertos de Taliarte y Salinetas |



IHO

# TOP ACHIEVEMENT SINCE EATHC15

International  
Hydrographic  
Organization

- **Renewal FIG/IHO/ICA IBSC recognition:**
  - Specialization Program in Hydrography and Oceanography for Naval Officer (cat A) in 2019
  - Specialization Program in Hydrography and Oceanography for Naval Petty Officer (cat B) in 2020
- **Training activities not affected by COVID-19**

|           | Cat A  | Cat B  |
|-----------|--|--|
| 2019-2020 | 4 Officers from Spanish Navy<br>1 Officer from Uruguay                             | 4 Petty Officers from Spanish Navy<br>1 Petty Officer from Morocco |
| 2020-2021 | 2 Officers from Spanish Navy<br>1 Officer from Argentina<br>1 Officer from Tunisia | 3 Petty Officers from Spanish Navy                                 |



IHO

# TOP ACHIEVEMENT SINCE EATHC15

International  
Hydrographic  
Organization

- MSDI Progress

- IHM has developed its own SDI (IDE-IHM), with the purpose of giving an answer to the increasing demand of users to have access to nautical information

<http://ideihm.covam.es/index1.html>



### Offered services:

- Nautical Chart WMS Services.
- WMS/WFS for Spanish Coast line.
- CSW Service of Metadata Catalog
- WMS/WFS for straight territorial sea baseline.
- WMS/WFS for Maritime boundaries.
- WMS/WFS for IHM nautical chart catalogue scheme.
- WMS/WFS for military maritime practice areas.
- WMS/WFS for List of Lights and Fog Signals.



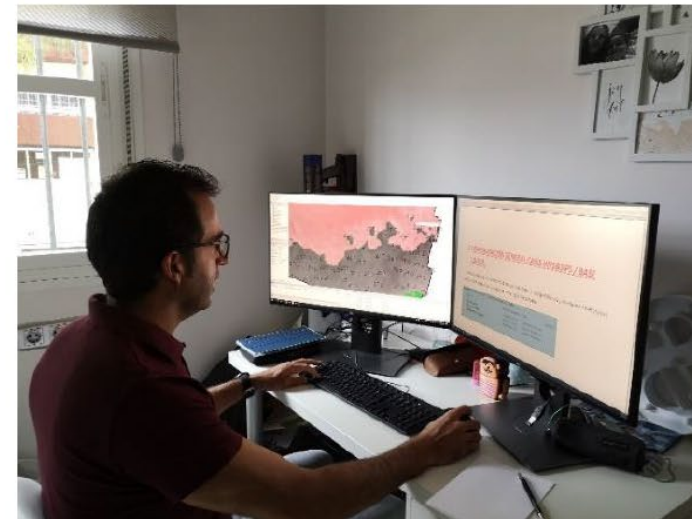


IHO

# TOP ISSUES OR SHORTFALLS

International  
Hydrographic  
Organization

- Need for adaptation of some processes to teleworking during the most severe phases of the pandemic.





IHO

# TOP PLANS THAT AFFECT THE REGION

International  
Hydrographic  
Organization

- Replace of the hydrographic fleet
  - 1 oceanic vessel (with polar and REA capabilities)
  - 2 coastal vessels
  - 5 survey boats
- CB offer:
  - Hydrography specialization course of **Cat A or Cat B** (10 months)
  - Others:
    - Hydrographic surveys basic course (8 weeks)
    - Hydrography and Cartography middle course (15 weeks)
    - Hydrographic equipment management basic course (8 weeks)
    - Processing multibeam data and acquisition advanced course (15 weeks)



**IHO**

# **TOP CHALLENGES FOR THE NEXT 2-3 YEARS (3 MAXIMUM)**

International  
Hydrographic  
Organization

- Digital transformation plan. S-100
- Organization changes
- New Hydrographic Fleet



**IHO**

# **ACTIONS REQUESTED FROM EATHC16**

International  
Hydrographic  
Organization

- Take note of this report