



Marine Spatial Data Infrastructure Instituto Hidrográfico de la Marina



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CURRENT STATE OF SPANISH MSDI

- **Available services:**

- **Nautical Chart WMS.**- Geographical information included in the Spanish IHM official nautical cartography. The visual representation mimics the standard S-52 of IHO.

URL's for Nautical Chart WMS Service

<http://ideihm.covam.es/wms/cartaENCp2>

<http://ideihm.covam.es/wms/cartaENCp3>

<http://ideihm.covam.es/wms/cartaENCp4>

<http://ideihm.covam.es/wms/cartaENCp5>

- **WMS/WFS for Spanish Coastline.**- These services provide capabilities to display and download the Spanish coastline included in the official nautical cartography (scale 1:50.000).

[http://ideihm.covam.es/wms/costaspain \(WMS\)](http://ideihm.covam.es/wms/costaspain)

[http://ideihm.covam.es/wms/costaspain \(WFS\)](http://ideihm.covam.es/wms/costaspain)



CURRENT STATE OF SPANISH MSDI

- **Available services:**

- **CSW Service of Metadata Catalog (Spanish IHM Nautical Chart).**- Capabilities of Cataloguing and searching for metadata files published in the IDE-IHM as WMS, WMS Layers, ENC's and Paper Charts.

<http://ideihm.covam.es/geonetwork/srv/spa/csw?REQUEST=GetCapabilities&SERVICE=CSW> (CSW)



CURRENT STATE OF SPANISH MSDI

- **Viewer:**

- Layers:

- Base map
- ENC's
- Coastline
- Administrative limits
- Paper charts and ENC's Catalog

- Add WMS.
- Search for geographical names.
- Search for lights

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

GOBIERNO DE ESPAÑA MINISTERIO DE DEFENSA

ARMADA ESPAÑOLA

Geoportal de la Infraestructura de datos espaciales del Instituto Hidrográfico de la Marina

Temas

- Mapa Base
- Cartas Náuticas
- Costa
- Límites Administrativos
- Catálogo de ENCs
- Catálogo de Cartas

Escala = 1: 20M

Ver coordenadas: EPSG:4326 (Geog.) 24°57'11.6"N, 24°09'05.9"O

CURRENT STATE OF SPANISH MSDI

- Metadata catalog.

GOBIERNO DE ESPAÑA MINISTERIO DE DEFENSA

ARMADA ESPAÑOLA

Geoportal of Spatial Data Infrastructure
Instituto Hidrográfico de la Marina

Home | Contact us | Links | About | Help | English | Username | Password | Login

Simple Search | Advanced Search | Show map

WHAT?
WHERE?

Search

Reset Options

• Digital Terrain Model (DTM)
• Electronic Nautical Chart (ENC)
• Paper Nautical Chart (CNP)
• WMS (Layers)
• WMS (Services)

GeoRSS

- carta ENC ES561501. Puerto de Santa Cruz de La Palma
- carta ENC ES561502. Puerto de San Sebastián de La Gomera
- carta ENC ES560502. Puerto de Puerto del Carmen
- carta ENC ES561002. Puerto de Las Nieves
- carta ENC ES560303. Punta de Morro Jabie
- carta ENC ES560501. Puerto Calero
- carta ENC ES560301. Puerto de Puerto del Rosario
- carta ENC ES560302. Puerto de Gran Tarajal
- carta ENC ES548801. Puerto de Valcarca
- carta ENC ES561503. Puerto de La Estaca

FIND INTERACTIVE MAPS, GIS DATASETS, SATELLITE IMAGERY AND RELATED APPLICATIONS

WELCOME TO THE SPANISH NAVY HYDROGRAPHIC INSTITUTE (IHM)'S METADATA CATALOG:

From this page users could consult any feature of the IHM's nautical cartographic products through a wide collection of metadata files. Thus, users could get a best understanding of the represented geographical information.

Using the Searcher, you can find useful information (meta-data) for INSPIRE web Service, Paper Nautical Chart (CNP), Electronic Nautical Chart (ENC), Terrain Digital Model(TMD), etc.

Category of Metadata, currently published:

- INSPIRE WMS web Service
- INSPIRE WMS web Service `s layers
- Electronic Nautical Chart (ENC)
- Paper Nautical Chart (CNP)
- Terrain Digital Model(TMD)

The 'GetCapabilities' file, that describes IHM's Catalog Service(CSW), is available at following URL: <http://ideihm.covam.es/geonetwork/srv/spa/csw>

WARNING: THIS SITE IS ONLY A PROTOTYPE AND IT IS STILL IN PHASE OF DEVELOPMENT

Contact us: lhmesp@fn.mde.es

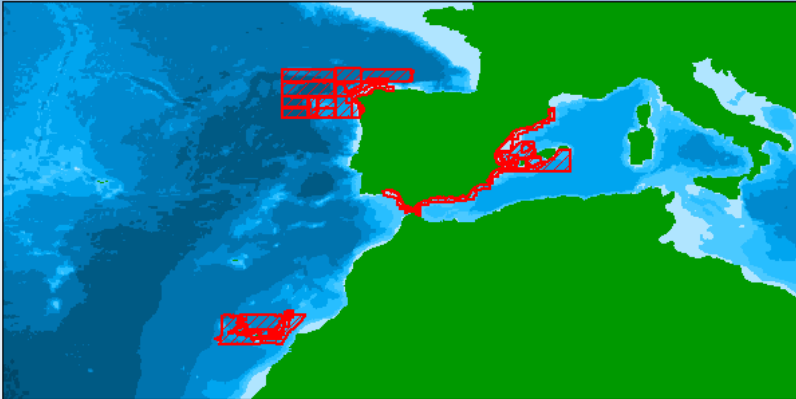
CURRENT STATE OF SPANISH MSDI

- EMODnet.
 - European project for a common Maritime Policy.
 - **Objective:** Collecting and harmonizing data for provision and use by industry, science or any activity related to the sea and the coast.
 - State government agencies, universities, research centres and companies.
 - **Seven themes:** Hydrography, Geology, Biology, Physical, Chemistry, Habitats and Human Activity.
 - 58 DTM's with bathymetry. Resolution 230 metres.
 - **Policy:** Request download and fill in authorization form. Disclaimer

http://summary.emodnet-hydrography.eu/v_cdi_v3/browse_step.asp

Tools

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- Enlarge
- Position
- Index



Layer control Expand Add layer

- CDI entry Points ?
- CDI entry Tracks ?
- CDI entry Areas ?
- Grid Lines ? ? ?
- Regional sea ? ? ?
- Regional sea labels ? ? ?
- Main sea ? ? ?
- Main sea labels ? ? ?
- Bathymetry ? ? ?
- Blue Marble ? ? ?
- World ? ? ?
- Display all selected records
- Only selected records in results list

Zoom to selected

Search by:

Geographical Box

Time period

Measuring area type
surface (58)

Add to basket 20 100 1000 Records Go | Found 58 | Show (1-20) | Previous | Next 20

#	Data set name	Disciplines - Parameter groups	Instrument / gear type	Show
<input type="checkbox"/>	MULTIBEAM DTM OF THE SPANISH CANARIAS ISLANDS EEZ 2001 DEEP WATERS	Marine geology > Gravity, magnetics and bathymetry Terrestrial > Terrestrial	multi-beam echosounders	
<input type="checkbox"/>	MULTIBEAM DTM OF THE SPANISH CANARIAS ISLANDS EEZ 2000 DEEP WATERS	Marine geology > Gravity, magnetics and bathymetry Terrestrial > Terrestrial	multi-beam echosounders	
<input type="checkbox"/>	MULTIBEAM DTM OF THE SPANISH CANARIAS ISLANDS EEZ 1999 DEEP WATERS	Marine geology > Gravity, magnetics and bathymetry Terrestrial	multi-beam echosounders	



GOALS FOR THE FUTURE

- WMS for Maritime borders.
- WMS/WFS for straight territorial sea baseline.
- WMS for IHM cartographic production plan.

GOALS FOR THE FUTURE

- Classification of layers: Themes in order to INSPIRE guidelines.
- New viewer provided with:
 - Edition tools
 - Possibility of selecting charts/ENC's and zoom to it.
 - Adding marks
 - Direct link with Spanish list of lights: “.csv” file or “.kml” file.
 - Layer Paper Chart Catalog: Link with updates.
 - http://ideihm.covam.es/visor_luces



DATA POLICY

- Implemented the copyright of nautical publications.
- S-57 and Tide table data in process.
- Internal and external study, consulting to different organizations about sale and/or transfer of S-57 raw data.
- WMS's: Data not used for navigation/other purpose relating to safety at sea and not allowed for commercial purposes.



Thanks

