ArcGIS for Maritime: Making Maritime Data Accessible Through ArcGIS Enterprise

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ArcGIS for Maritime

Source Datasets

Surface models

Server

System of Engagement

Bathymetry

Systems of Record

Charting

Nautical Data

Charts
ArcGIS for Maritime: Server
10.5.1

Maritime Chart Service (MCS)

Products on Demand (POD)
Maritime Chart Service

10.5.1 ArcGIS for Maritime: Server
ArcGIS for Maritime: Server
Overview

- Timely and accurate dissemination of S-57/S-63 datasets
  - Additional Military Layers (AML)
  - Electronic Navigational Charts (ENCs)
  - Inland ENC (IENC)
- Rich, authoritative information
- Availability of data through web map services
Maritime Chart Service
Architecture

Map Service
- Maritime Chart Service engine
- Server Object Extension
- SENC
- S-57
- S-63

Configuration
- Projection
- Available Layers
- Rendering (S-52 or custom)

Desktop
Web App Builder

ArcGIS for Server
OGC WMS
OGC WMTS
REST
Maritime Chart Service

Industries

- Defence
- Fisheries
- Marine Spatial Planning
- Oil and Gas
- Ports
- Recreational Mariner
- Many Others

Highlights
- Anti-Piracy
- Amphibious Warfare
- Situational Awareness
- Homeland Security
- Border Patrol
- Natural Resources
- National Spatial Data Infrastructure
- Windfarms & other resources
- Harbormasters
- Asset Management
- Common Operational Picture
- Port Security
- Voyage Planning
- Operational Basemap
- Vessel Traffic Management
- Basemap
Demo

http://esriho.maps.arcgis.com/home/index.html
Next…

- Vector PDF
- Chart Management
- S-100
Products on Demand

10.5.1 ArcGIS for Maritime: Server
Demo

http://esriho.maps.arcgis.com/home/index.html
Next…

Notes

S-52 Display parameters

**Maritime Display Properties**

- **Depth Contour (Meters)**
  - Shallow: 2
  - Safety: 12
  - Deep: 30

- **Miscellaneous**

**Apply**
Additional Information
Maritime resources

• Maritime on Geonet: https://geonet.esri.com/groups/arcgis-for-maritime

• Demonstrations: http://esriho.maps.arcgis.com/home/index.html

• Sample WAB Widgets: https://github.com/Esri/maritimechartservice-sample-viewer

• ArcGIS Runtime
  - S-57 Hydrographic Layer: Existing support for S-57 ENC
  - ArcGIS Runtime SDK 100.2: Future support for S-57/S-63 (ENC, AML, iENC)
Maritime Demonstrations

• Enterprise Area
  - ArcGIS for Maritime: Server

• Mapping and Visualization
  - ArcGIS for Maritime – all products

• Mapping and Statistics
  - ArcGIS for Maritime – all products
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