ArcGIS for Maritime: Charting
Charting

Create, maintain and publish nautical data and charts for navigational and marine purposes.

Bathymetry

Store, discover, model and manage bathymetric data.
ArcGIS for Maritime: Charting

- Official and unofficial products
- High quality cartography
- Integration with full GIS

Marine Charts

Inland Waters

Electronic

Paper
What

A production system for the **creation** and **maintenance** of navigational products and nautical spatial data.
ArcGIS for Maritime: Charting

Enterprise Implementation

Central Data

Product Library

Desktop Implementation

Product Library
ArcGIS for Maritime: Charting

What’s new at 10.1
• New Symbology Engine
• New Export Wizard
• New Product Wizard
• Cartography Tools
• Stability/Usability focus
Why

Solves problems

• Centralizes data
• Improves efficiency
• Database driven cartography
• Same data, different products
• GIS based, Server enabled
How

Edit

Data

Quality & Workflow

Product Library

Nautical Products

Metadata

Manage

Data

Create

Paper

Electronic

Features

Share

Distribute

Apps

Cloud
ArcGIS for Maritime: Charting Cartography

- Toolbar reorganization
- Support for BSB
- Masking tools (easy/fast)
- New symbology engine
- New scale bar tool
- Source Diagram tool
- Interactive workflows
Centralized data

- Product Neutral Geodatabase
- Scale banded (configurable)
- Hybrid S-57/INT-1 data model (extendable)
- Multiple cartographic displays supported
- Single Application
- Secure – historical archive
- Multi-user access
ArcGIS for Maritime: Charting

Product Management

- Framework within ArcGIS for effective management of products and associated metadata.
- Products managed internally through “Check-in/out” process
- Symbology, validation rules, conditions stored centrally
- Multiuser access
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Product Management

- New Metadata engine for traditional and S-57 charts
- Create Product Wizard
  - Faster product creation
  - Integrated with metadata
- Export Product Wizard
- PDF Publisher
ArcGIS for Maritime: Charting Product Management

New Metadata engine for traditional and S-57 charts

Create Product Wizard - Faster product creation

Export Product Wizard - Integrated with metadata

PDF Publisher
ArcGIS for Maritime: Charting

Editing

Feature Manager
- Efficiently manage features while editing
- Symbolized favorites (Templates)
- Integrated with Product Library
- Use of construction tools
- Integrated metadata

Field display

Validation rules

Metadata configuration
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Workflow Management
ArcGIS for Maritime: Charting
Workflow Management

Workflow Manager Extension
- Bundled with ArcGIS for Maritime
- Equipped for the enterprise (Server enabled)
- Build standardized workflows
- Assign, share and monitor jobs

Task Assistant Manager
- Bundled with ArcGIS for Maritime
- Deployable through centralized location or locally
- Build detailed workflow steps (akin to SOPs)
- Start/stop, pass to other users and chart progress
Task Assistant Workflows

Sample Workflows:

← Bathymetry &

↓ Applying Symbology for Charting
From GIS to anywhere…

Chart Production

Charting

Surveys

ArcGIS

Bathymetry

SSDM

Oil & Gas

The Cloud

Defence

Survey Companies

Coastal Engineering

Ports

Habitat Mapping

Coast & Marine Spatial Planning

Marine Science
Thank you.

Rafael Ponce
rponce@esri.com