Uncover Hidden Value in Maritime Data

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NOAA/NOS Office of Cost Survey
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Overview

Timely and accurate dissemination of Electronic Navigational Charts (ENCs) is critical for Safety of Navigation.

- Emerging technology allows for availability of data through web map services
- NOAA makes ENC portfolio available

Highlights
- Timely and accurate dissemination
- Hydrographic Offices providing rich maritime data
- Safety of Navigation
Maritime Chart Server Architecture

- Authoritative
- Up to Date Information
- Simple
- Integrated

Highlights
- ArcGIS Server Object Extension
- S-52 Display
- Search
- Identify
- S-63 Decryption

Rapid display of authoritative data
NOAA Implementation

Overview

NOAA ArcGIS Server

Desktop

Web

Field

Web GIS

Highlights

- REST
- OGS WMS
- AGOL
- Custom web app
  - NOAA ENC® Online
- Collector App for field work

NOAA ENC® Online Usage

~150 Unique Hits/Day
NOAA Usage

Highlights
- NOAA ENC® Online
- ENC familiarization
- Consistent encoding
- Seamless view
- Answer questions
- Operational basemap

Providing new services...
... Increased quality
Potential Industries

- Asset Management
- Common Operational Picture
- Operational Basemap
- Voyage Planning

Highlights

- Fisheries
- Marine Spatial Planning
- Oil and Gas
- Ports
- Defense Anti-Piracy
- Recreational Mariner
- Many Others

Maritime Chart Server

... One authoritative dataset with many uses
Examples
Improving the ENC Suite – Depth Areas
Examples

Improving the ENC Suite – Missing VALSOU
Examples
Improving the ENC Suite – Compilation through the Scales
Conclusion

- Simple to deploy
- Higher quality datasets
- Up-to-date authoritative data
- Operational or Base layers through REST or OGC WMS
- Ways for Agencies to provide additional premium services
- Future...IHO world service?
Thank You

http://www.nauticalcharts.noaa.gov/ENCOnline/enconline.html