5th WENDWG Meeting

3-5 March 2015 (Singapore)

# Update on the IHO ENC Catalogue

IHB (WENDWG Secretary)

# Content

# Objective

**IMO NCSR 1/WP.8** " ECDIS – Guidance for Good Practice"

"The IHO provides an **online chart catalogue** that details the coverage of ENCs together with references to coastal state guidance on any requirements for paper charts (where this has been provided). *The catalogue also provides links to IHO Member States' websites where additional information may be found. The IHO online chart catalogue can be accessed from the IHO website.*"

# IHO Strategic Performance Indicator No.2

"Growth in ENC coverage worldwide, **as reported in the IHO on-line catalogue**, relative to the existing gap in adequate coverage (as defined by IMO/NAV) from the benchmark 01 Aug. 2008"

ENC Availability:

www.iho.int > ENCs & ECDIS > ENC Availability

# Today…

✦ The metadata for the ENC catalogue are provided by UKHO as the AVCS metadata set (most comprehensive coverage information available at the IHB)

✦ Monthly updated

✦ 1 layer and 1 shape file for 1 usage band (total of 6)

✦ Basic but sufficient? Is it used by IHO MS? Any other requirement?

# The IHO ENC Catalogue moving into the IHO GIS environment

web page based on ArcGIS online

Browse and search ENC coverage

User

WFS upload

AVCS

Metadata

IHB
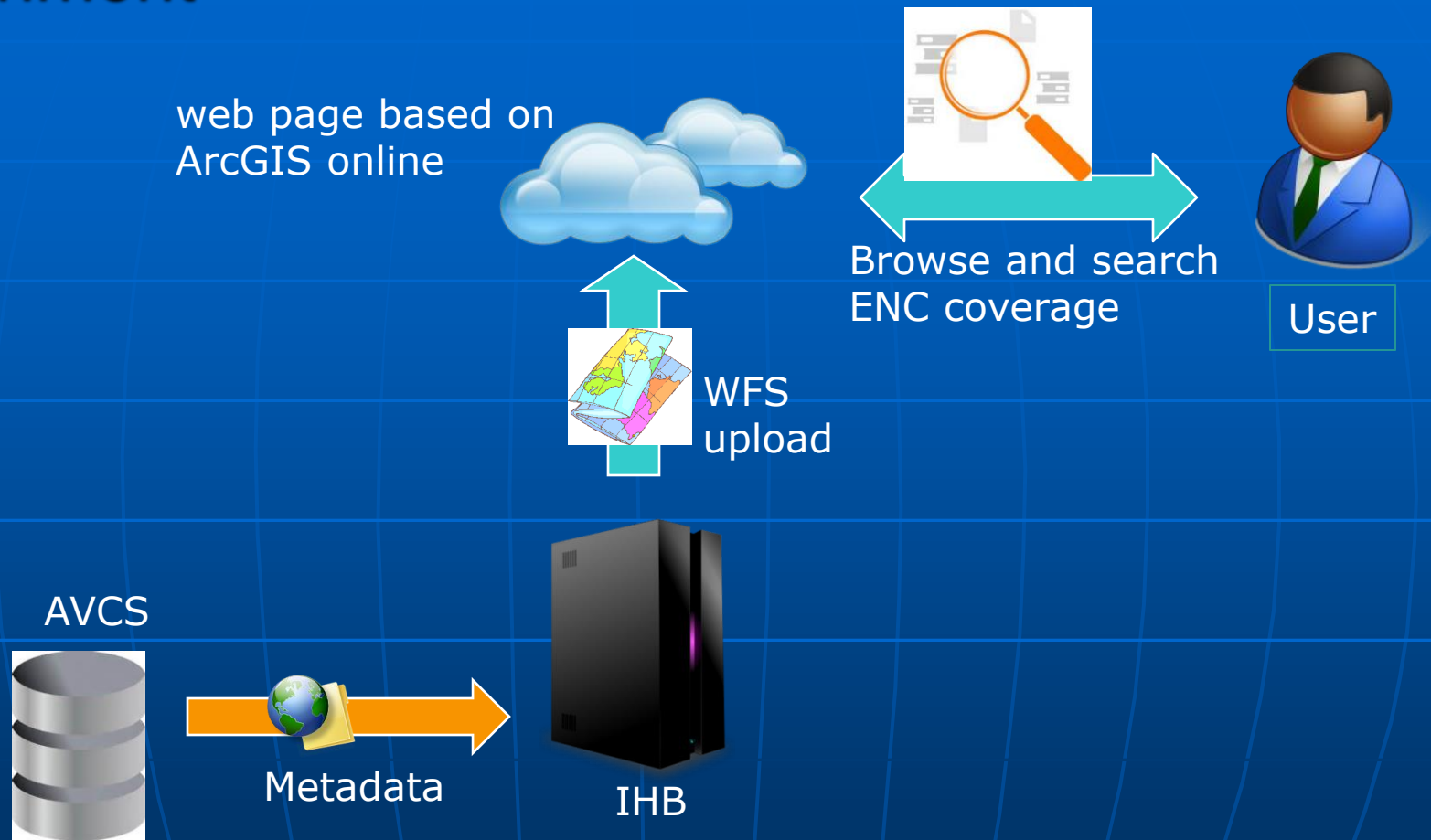
- ✦ The metadata is provided only from AVCS and kept on the server of the IHB

- ✦ Only the WFS uploaded to the ArcGIS online to be browsed

# The IHO ENC Catalogue moving into the IHO GIS environment

web page based on ArcGIS online

Browse and search ENC coverage

User

WFS upload

Metadata

IHB
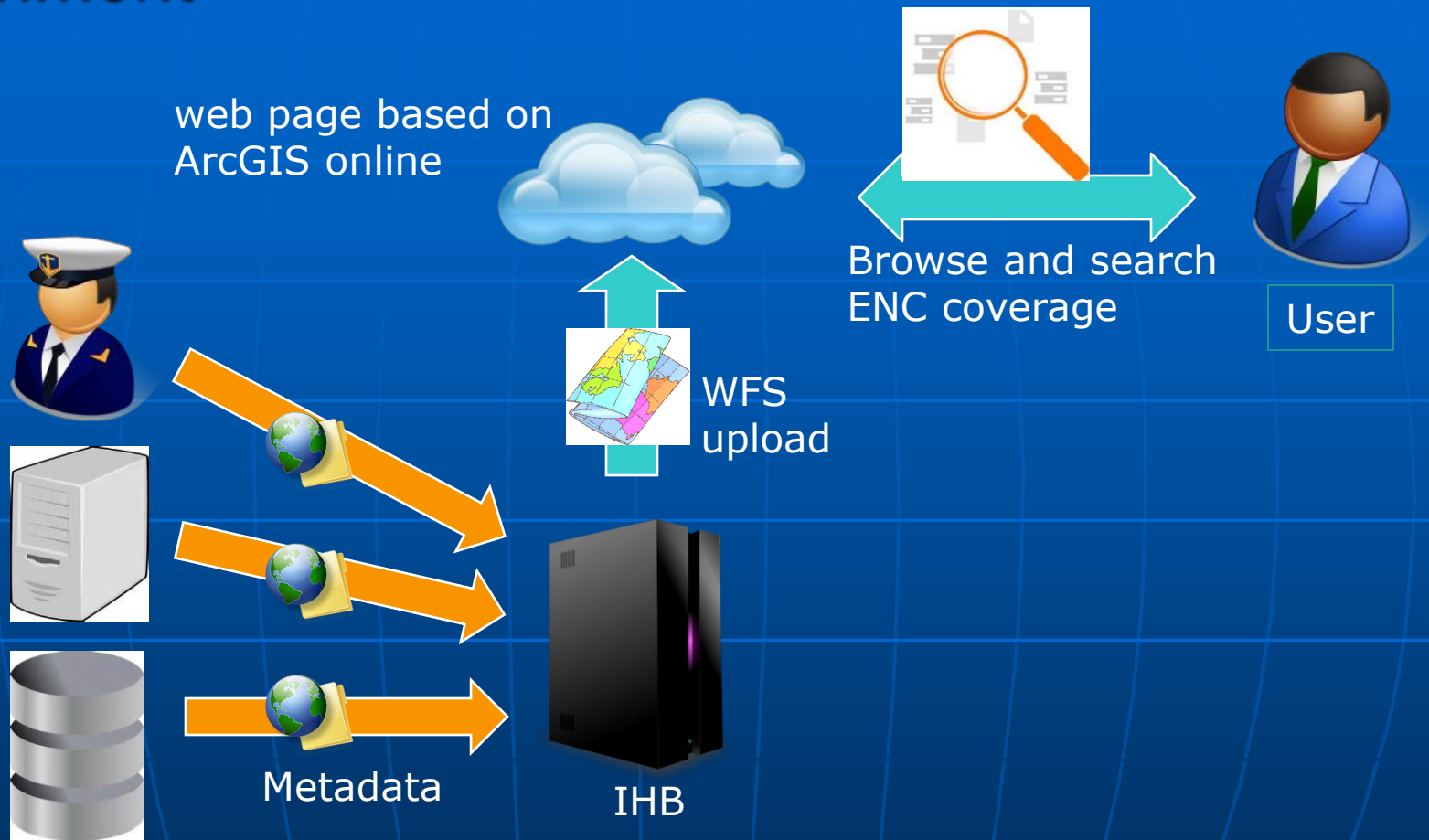
- ✦ the ENC metadata, including update information will be collected from many sources

- ✦ Only the WFS uploaded to the ArcGIS online to be browsed

# Rationale for migration to a new GIS environment using ArcGIS online

- Information display much faster  (3 x?) than the previous system

- Compliant for more layers, more features in 1 layer, more attributes for 1 feature

- All GIS on-line search functions will be available…making analysis much easier for getting SPI, statistics, coverage comparison, etc.

- Easier and cost-effective system maintenance and updates of the content from an IHB point of view

# Examples – a simple interface



IHO ENC Catalogue — Side bar (legend, layer select, base map select and print)

# Examples – Layered information



Multi layer
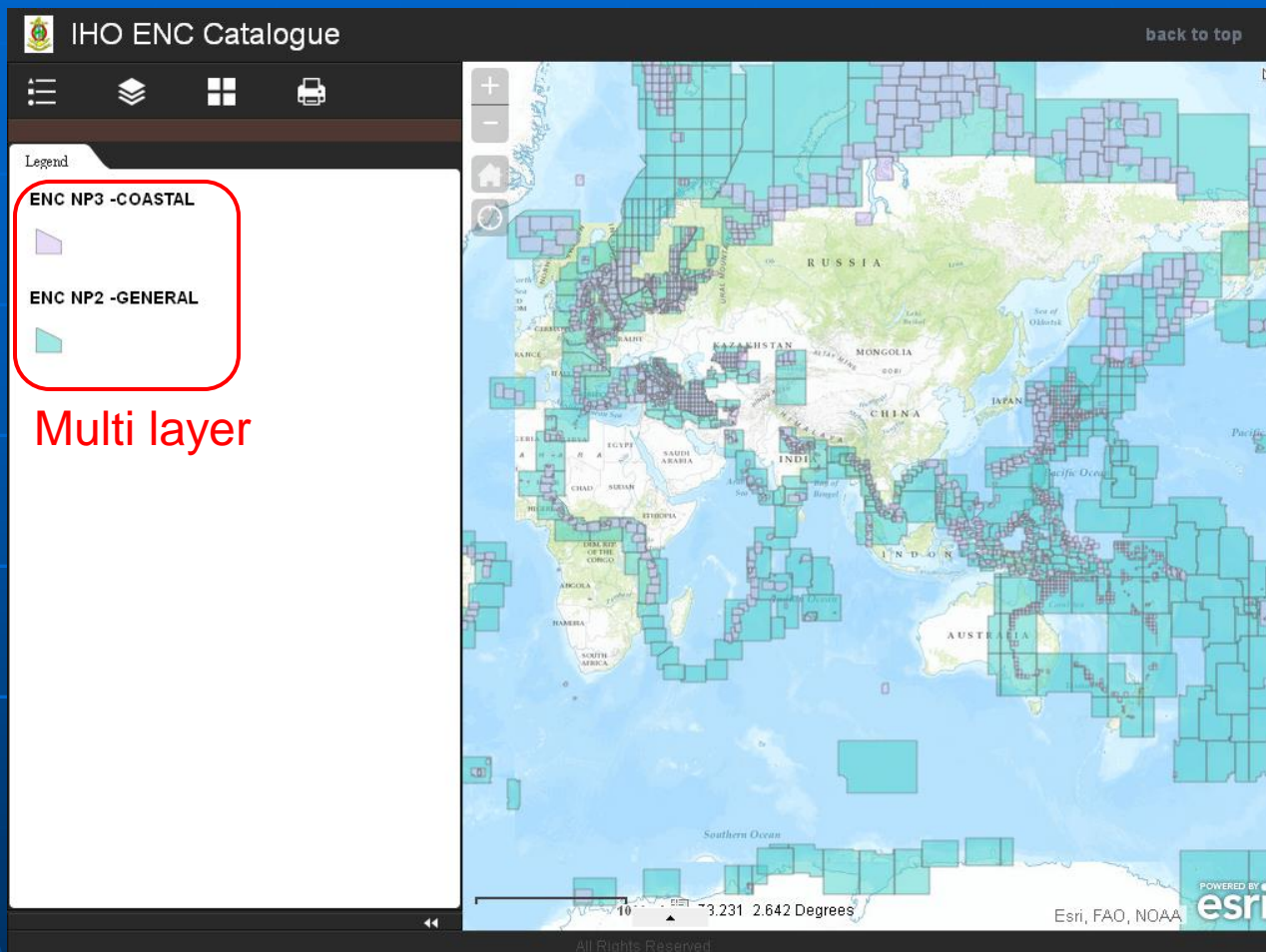
# Examples – Layer selection



Selectable layers by usage band

# Examples – Handling



Operational layer (transparency, Sequence of the layers)

# Examples – Attributes



IHO ENC Catalogue

ENC NP4 -APPROACH

CELL NAME    ID400065
USAGE BAND   4
SCALE        90,000.00

Zoom to

Detail information popped up
with clicking the feature

# Examples – Attributes



When you click the place with multi features

Number of the features shown

# Examples – Attributes
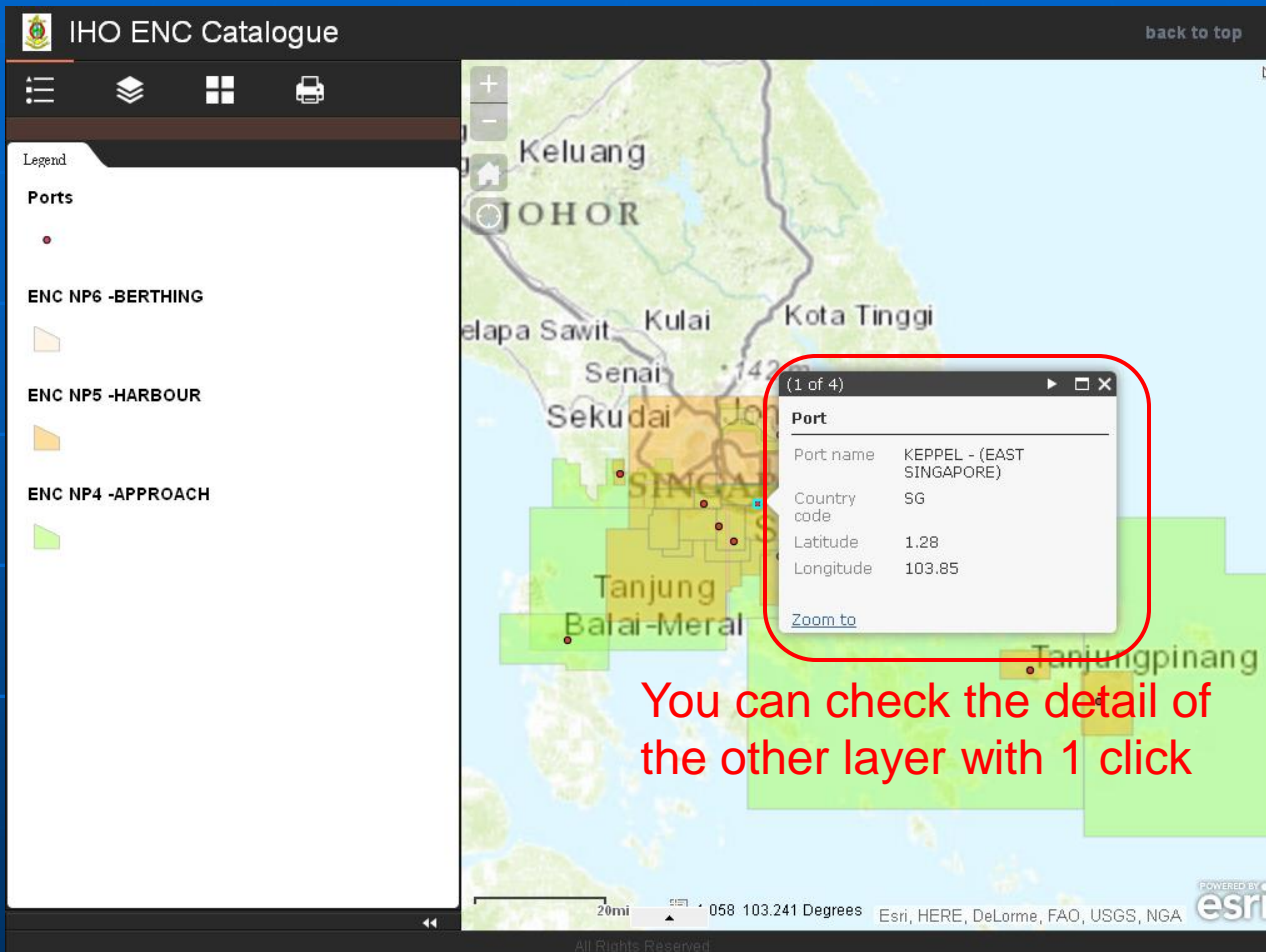


Table of the detail information can be opened up

# Examples – Overlay with other information
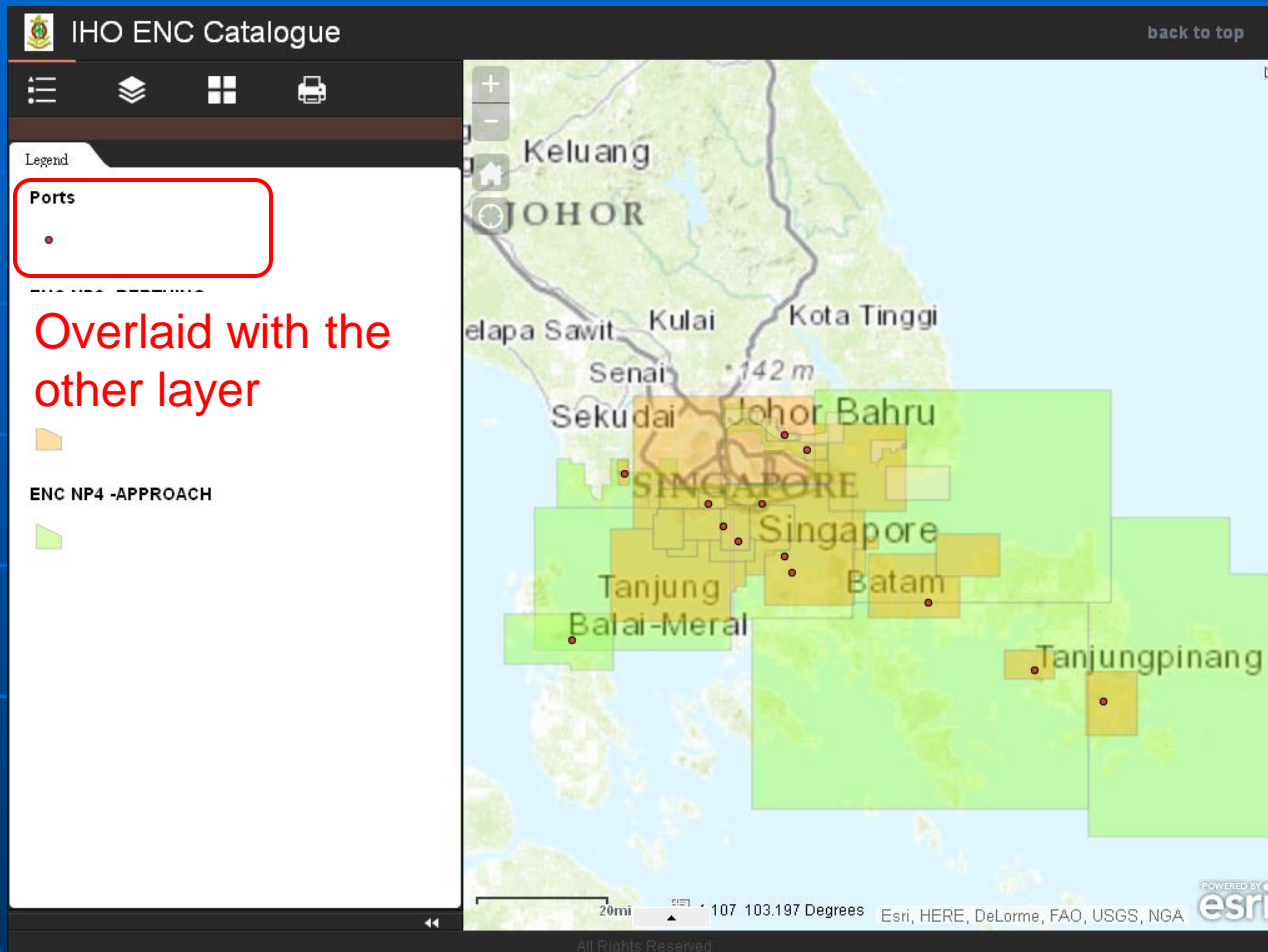


Port information derived from "World Port Index" of NGA PUB.150

# Examples – Overlay with other information

# Towards the IHO GIS…

- Enrich the search function of the features by attribute, by the other layer (f.g. INT region)

- Overlay with the other information(INT charts, RHC area, INT chart schemes, survey metadata, C-55, …)

- Generation of SPI, WPI…

- Collection all necessary ENC metadata for required functions from various sources
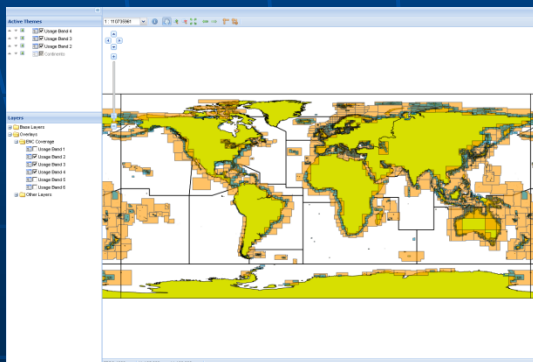
GIS portal for all the IHO geographical information

# Towards the IHO GIS...
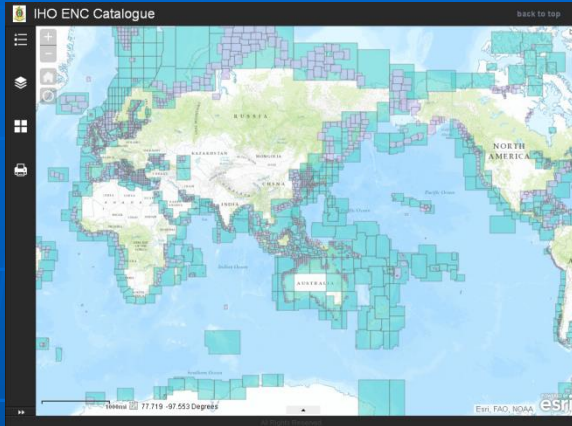


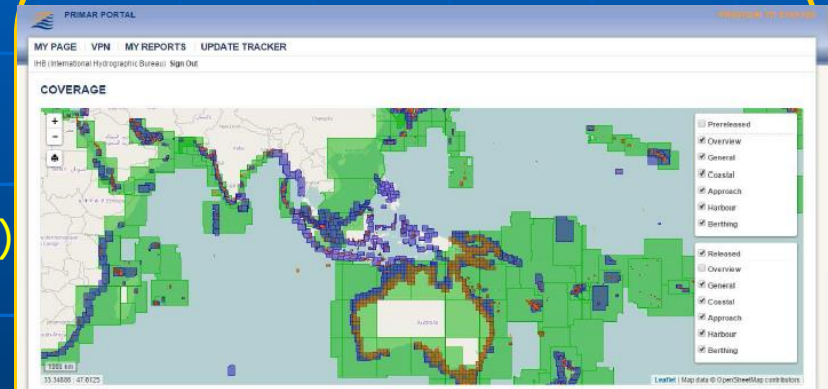New version

**Public** (on IHO website)

Starting up March 2015 (tbc)

Old version    To be superseded

ENC coverage not available through RENCs

RENC coverage

IHB

Coverage & Overlap Checker

**Close system**
(only internal use by RHC, RENC, IHB...)

# Suggested actions to WENDWG

- Endorse the principles of the IHO ENC Catalogue evolution

- Take any actions as appropriate (such as ENC metadata provision to IHB, ENC Schemes metadata when they are approved, Top 2000 Ports Ranking 2006 shp, etc.)

# Questions?

More on <u>www.iho.int</u> > ENCs &ECDIS > ENC Availability> View ENC Coverage Catalogue