



# 19<sup>th</sup> HCA Conference (2024)

## ***Update on the Development of INTToGIS III***

### **Agenda Item 07.5B**



IHO

# INTOGIS III: 2024 PLANNING

International  
Hydrographic  
Organization

## GOAL

October 10 INTOGIS III commissioning announced by IHO CL

- After completion of **Internal IHO Secretariat Test** ...
- ... Followed by completion of **external test** with RHCs Coordinator

## PLAN

1. **[MAY]** **Completion of INTOGIS III version 1.0**
  - Version 1.0 to be testbed, User manual version 1.0, Test data set, if appropriate for each S-1xx products
2. **[JUN]** **Completion of Internal IHO Secretariat Test on INTOGIS III version 1.0**
  - Report on correction action and improvement\* of testing
  - \* N(Necessary), I(Important), NtD (Nice-to-do)
  - Implement correction item including updating to user manual
3. **[SEP]** **Completion of Testing Phase by RHC S-100 Coordinators**
  - Report on testing outcome, Amend INTOGIS III and user manual version 1.x
4. **[10 OCT]** **Commissioning of INTOGIS III version 2.0 by IHO CL**



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# DEVELOPMENT PLAN

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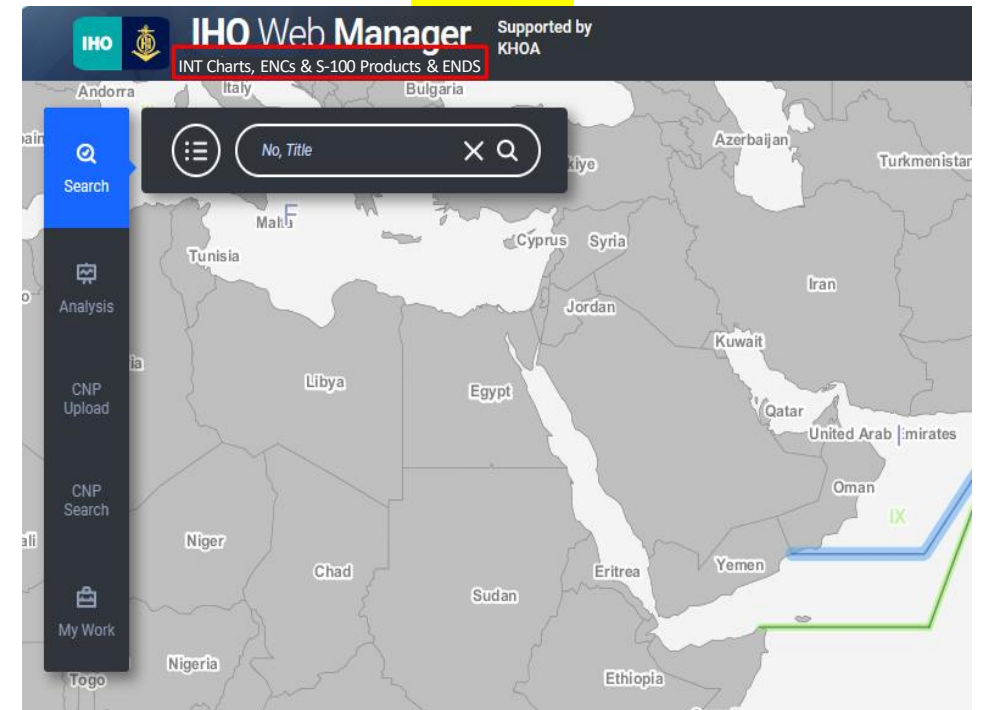
## ❖ Change the main title

- INT Charts, ENC's & S-100 Products & ENDS

AS-IS



TO-BE





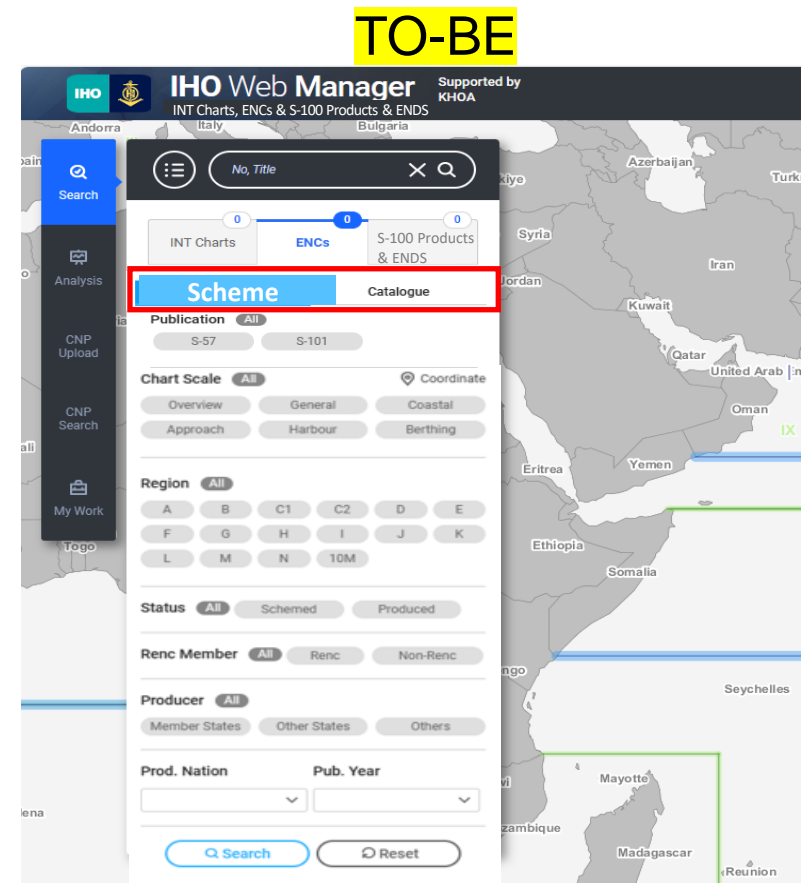
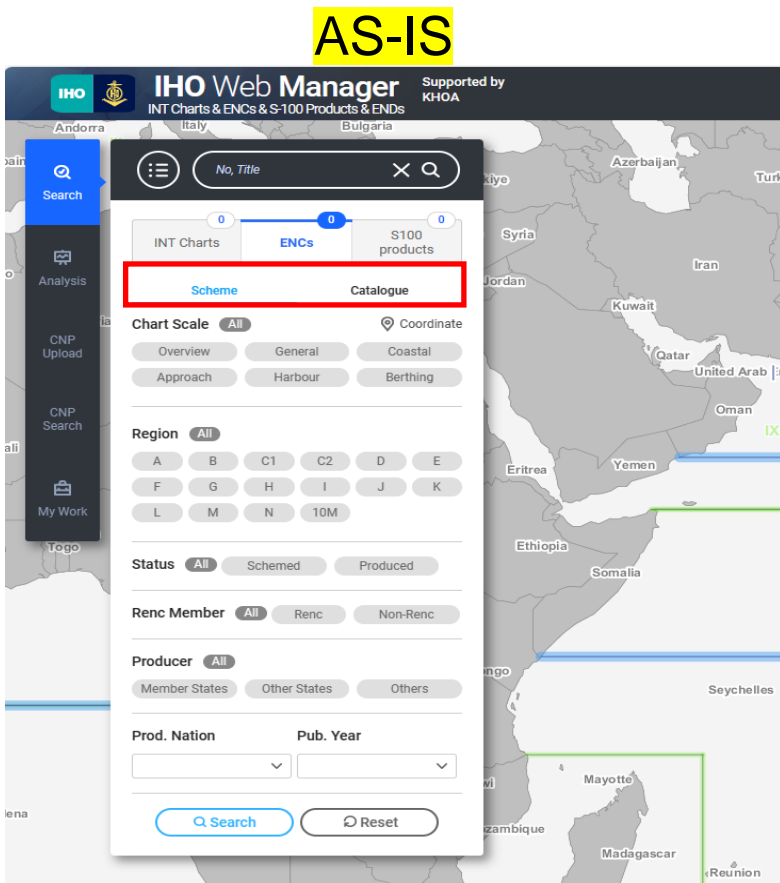
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## ❖ Change the ENC's tab interface

- Change the interface for better visibility when selecting scheme and catalogue





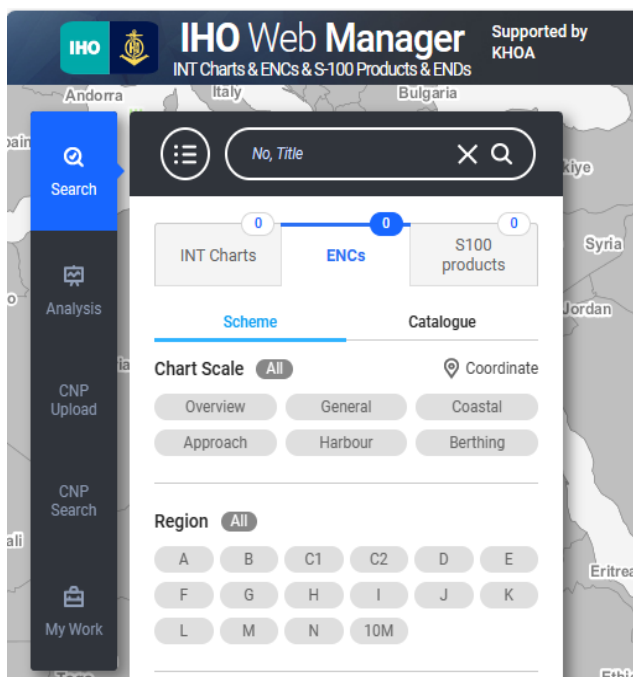
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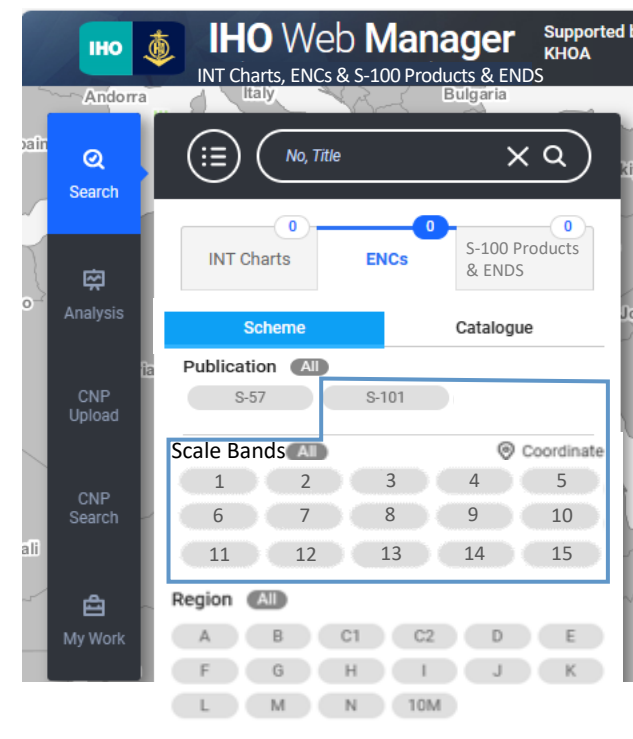
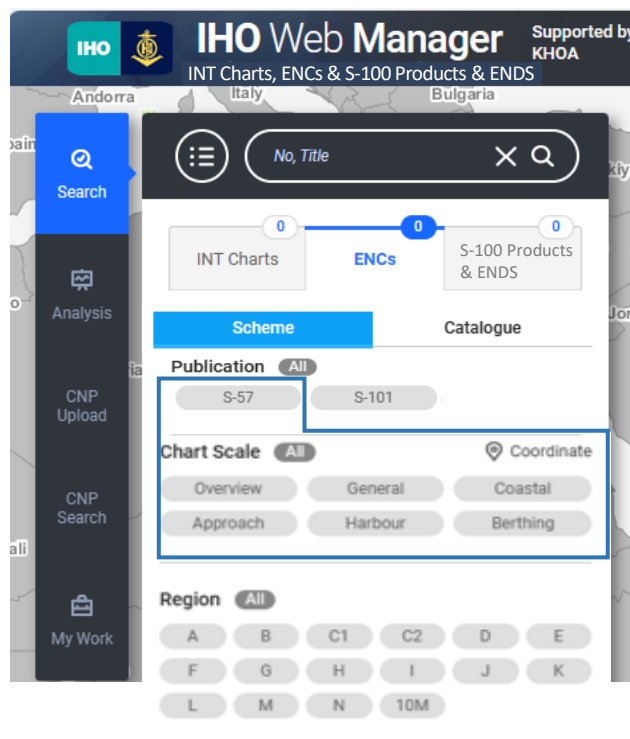
International Hydrographic Organization

- ❖ Add a product condition item to search for S-57, S-101 in ENC's scheme

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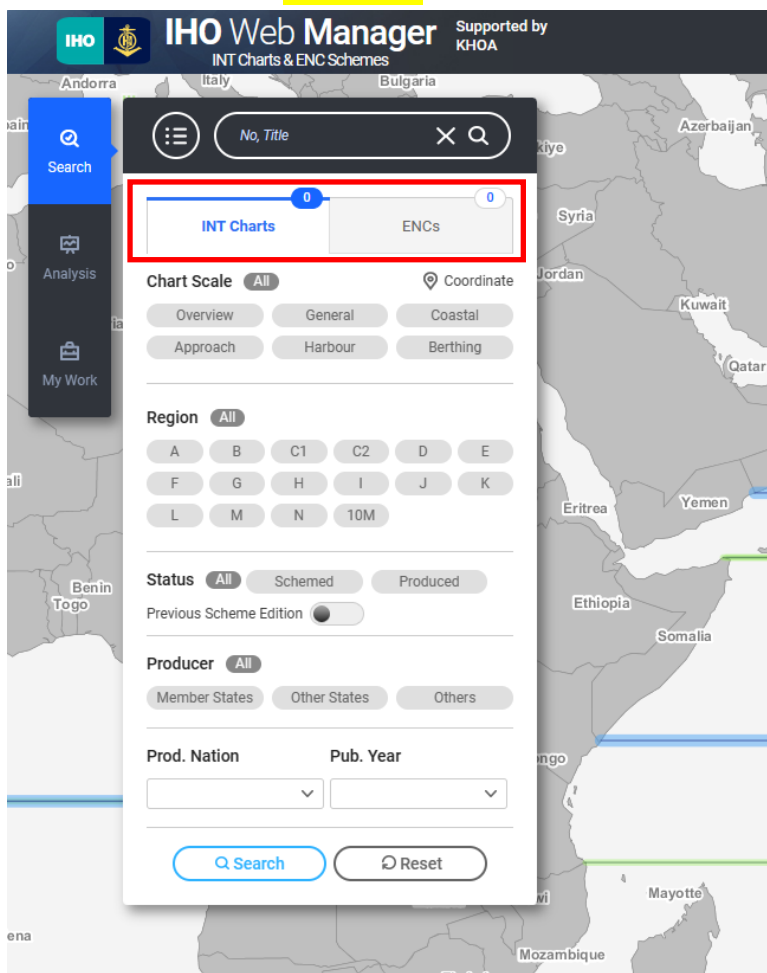
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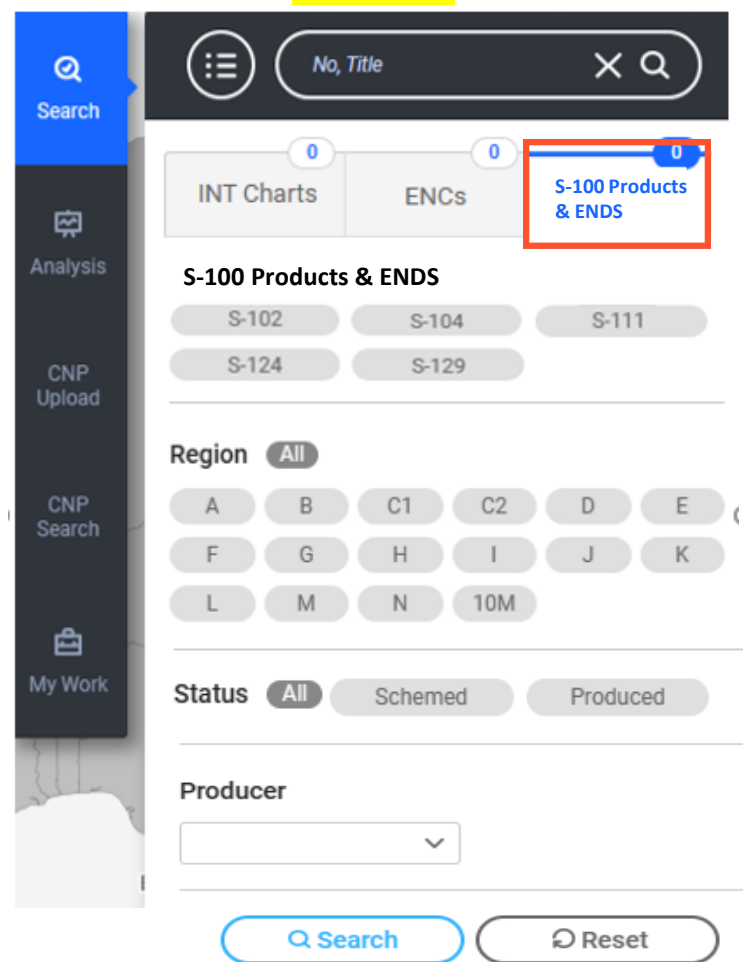
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## ❖ Add S-100 Products category for S-100 Products & ENDS (Phase I) search

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- ❖ **Add S-100 Products & ENDS (Phase I) items in the submit process.**
  - Enter point or polygon coordinates in the Geometry(Geom) attribute.
  - After entering coordinates, preview the corresponding layer on the map.
  - File upload and download functions will be developed later.

The screenshot displays the IHO web application interface. At the top, there are navigation buttons for 'CNP Search' and 'My Work'. The main content area shows a map with a modal window for adding a polygon. The modal window has tabs for 'point' and 'polygon', and a table for entering coordinates. Below the modal, there is a map preview showing the resulting layer. The bottom navigation bar has buttons for 'Upload', 'Download', 'Ready', 'New', 'Delete', and 'Cancel'. The 'S-100 Products' tab is selected, and the 'Geom' column is highlighted in the table below.

Action	Product ID	Title	INT Region	Producer	Geom	Date	Version	Status	Comment	Catalogue Element	Not For Navigation
New	S-104	102KR000	K	KR				Scheme		Nautical Publication	False

- ❖ **Future Plan (later) :** Circle shape or Linestring layer



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❖ Add layer to display approved products on the map in Manager Mode.

The screenshot shows the GEOTWO web application interface. At the top, there are navigation buttons for 'Hello GEOTWO', 'Disclaimer', 'Manual', and 'Logout'. The main map area displays a geographical view of the Indian Ocean region with various data layers overlaid. On the right side, there is a 'Layers' panel with a search icon and a refresh icon. Below the search bar, there are four layers: 'Coastal', 'Approach', 'Harbour', and 'Berthing', each with a toggle switch and a 50% opacity setting. Below these, there are two sections: 'S-100 Scheme' and 'S-100 Produced'. Each section contains a list of product codes (S-101, S-102, S-104, S-111, S-124, S-129) with toggle switches and 50% opacity settings. The 'S-100 Produced' section is highlighted with a red border.

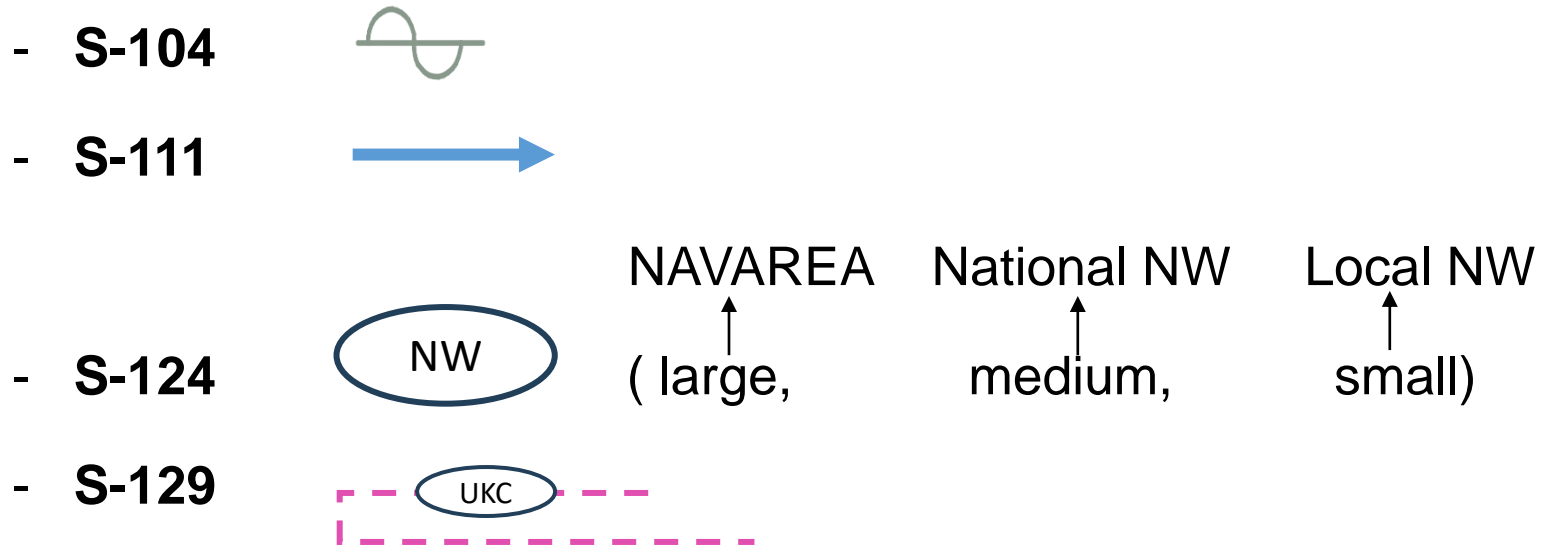
Layer Name	Toggle	Opacity	Color
Coastal	<input type="checkbox"/>	50%	Green
Approach	<input type="checkbox"/>	50%	Green
Harbour	<input type="checkbox"/>	50%	Green
Berthing	<input type="checkbox"/>	50%	Green
<b>S-100 Scheme</b>			
S-101	<input type="checkbox"/>	50%	Brown
S-102	<input type="checkbox"/>	50%	Purple
S-104	<input type="checkbox"/>	50%	Purple
S-111	<input type="checkbox"/>	50%	Purple
S-124	<input type="checkbox"/>	50%	Purple
S-129	<input type="checkbox"/>	50%	Purple
<b>S-100 Produced</b>			
S-101	<input type="checkbox"/>	50%	Light Blue
S-102	<input type="checkbox"/>	50%	Light Blue
S-104	<input type="checkbox"/>	50%	Light Blue
S-111	<input type="checkbox"/>	50%	Light Blue
S-124	<input type="checkbox"/>	50%	Light Blue
S-129	<input type="checkbox"/>	50%	Light Blue





## ❖ Display symbols on the map

- Will be developed later by expressing simple symbols such as:



- Data flow INTOGIS I, INTOGIS III remains the same:

MS → Coordinator (after approval by RHC) → IHO Secretariat



- ❖ **Once S-128 files became available, manual interface will become obsolete for existing products but useful for planning /scheming**
- ❖ **INToGIS III** : a tool for planning/scheming ENC's, S-100 Products & ENDS (**Phase I**) from 2025 to 2029, by Member States, through a coordinated process within the RHCs, then for displaying **coverage planning and availability** (no data) of ENC's and S-100 products & ENDS in RHCs Reports to IRCC/WENDWG and in IHO Secretariat's Annual Reports to IMO NCSR.
- ❖ **From 2026, a tool to extract automatically SPIs in relation to S-100 Production.**
- ❖ **From 2026, development of INToGIS IV for including Phase II S-100 Products and ENDS**