



HSSC-16

Update on the Development of INTToGIS III

Agenda Item 07.2B



IHO

What is INTToGIS III ?

International
Hydrographic
Organization

INTToGIS III = current INTToGIS II (also know as S-11 Part B, IHO Web Catalogue of Charts) + [**S-100 Phase I Products and ENDS**]

- ❖ **INTToGIS 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** (communication)



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INTOGIS III: 2024 PLANNING

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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 the development 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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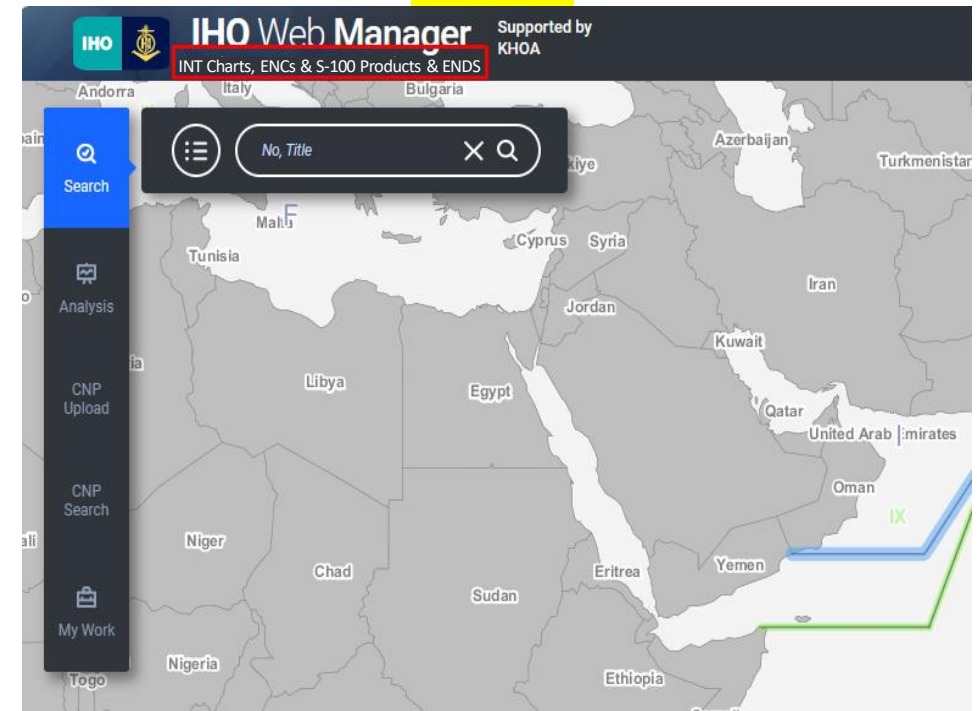
❖ Change the main title to read

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

AS-IS



TO-BE





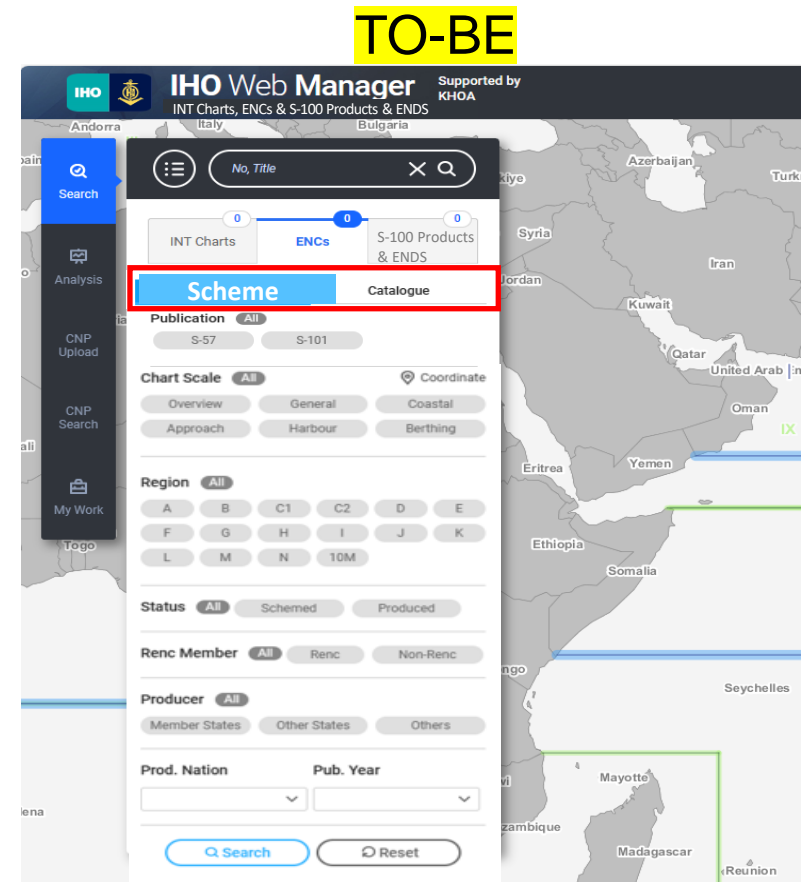
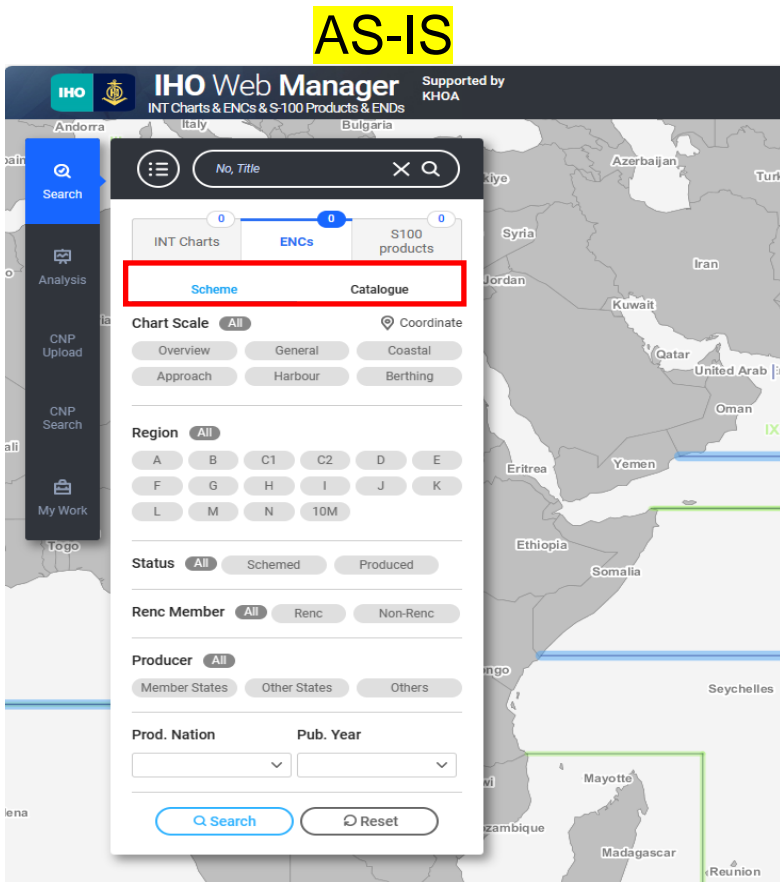
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❖ Change the ENC's tab interface

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





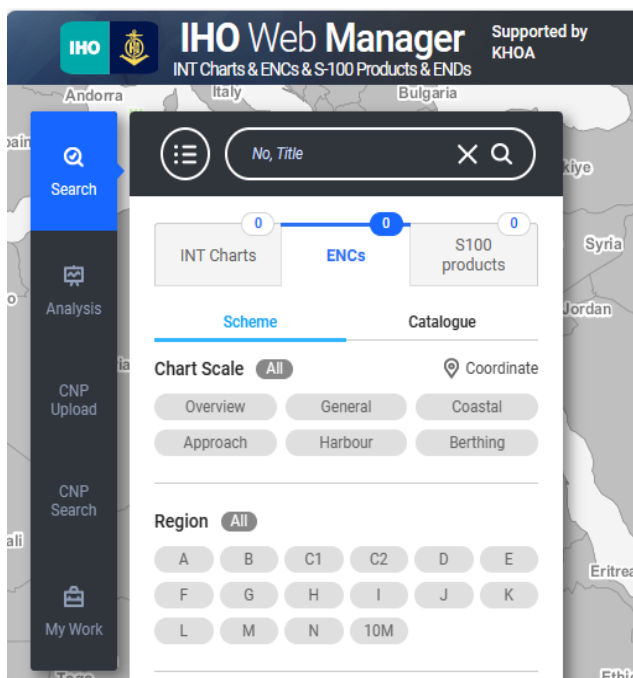
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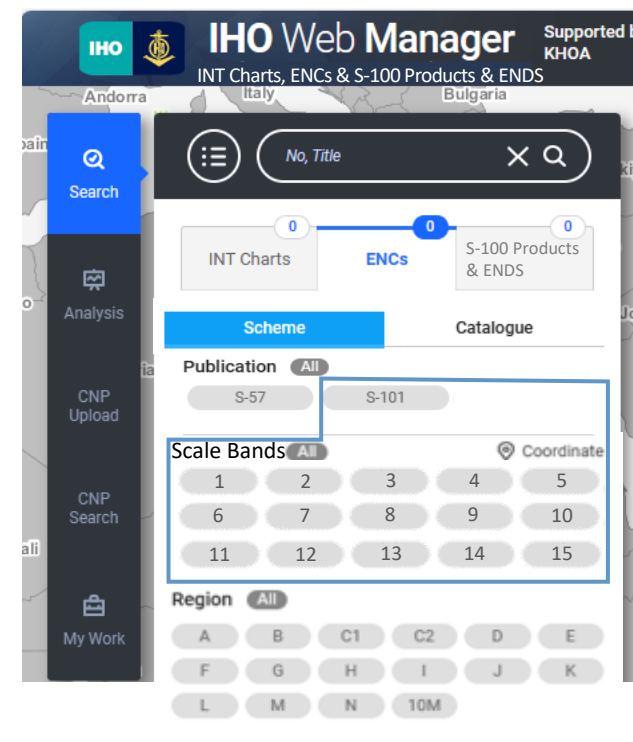
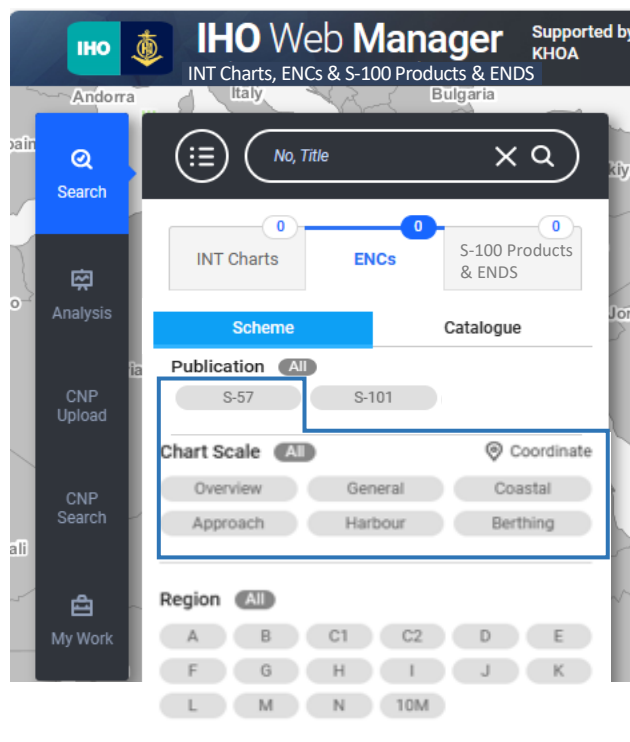
International Hydrographic Organization

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

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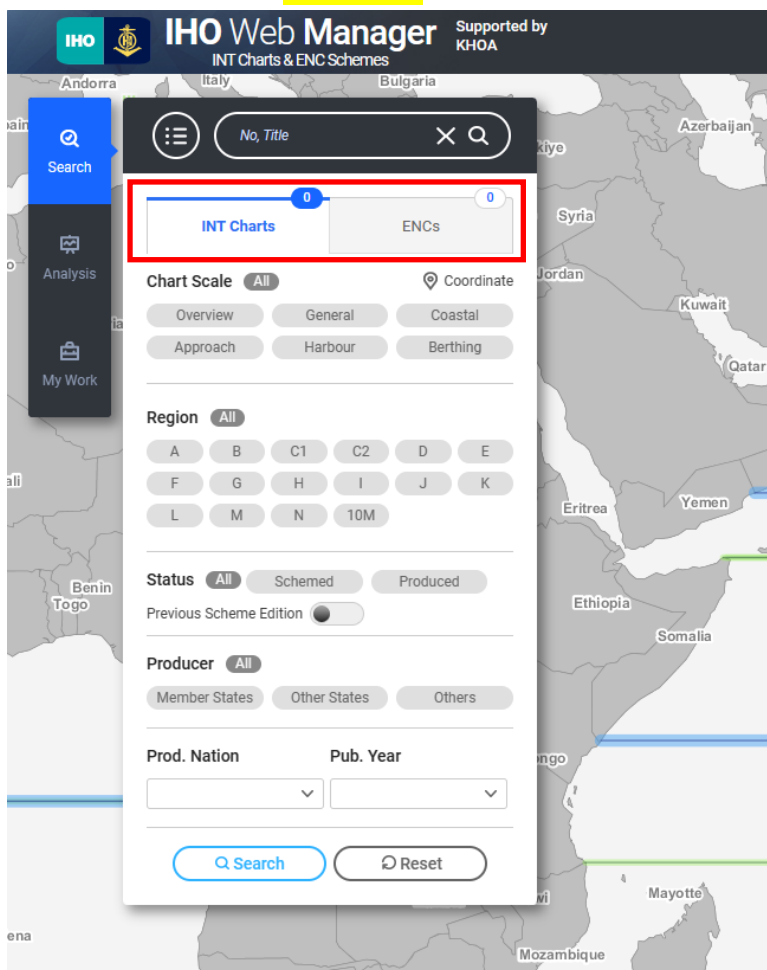
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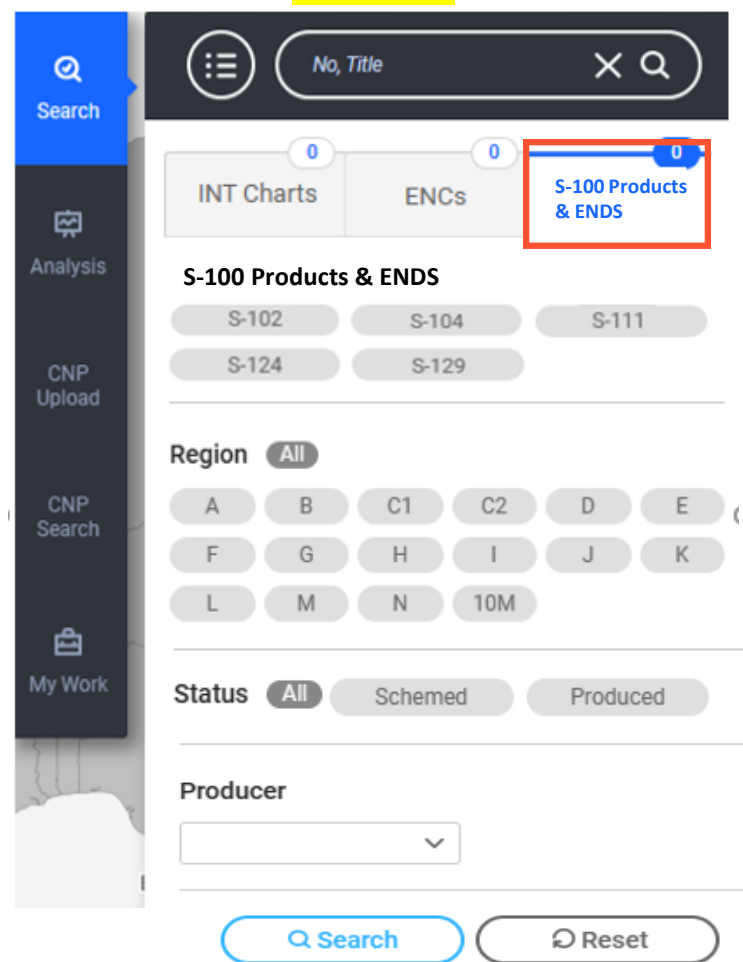
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❖ Add S-100 Products category for S-100 Products & ENDS (Phase I) search

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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 under development.

The screenshot displays the IHO web application interface. At the top, there is a navigation bar with 'CNP Search' and 'My Work' buttons. Below this, a map shows a geographical area with a yellow polygon overlaid. A dialog box is open over the map, allowing the user to enter coordinates for a 'point' or 'polygon'. The dialog has a grid of input fields for latitude and longitude, with 'N/A' in some fields. There are 'Delete' buttons for each field, and 'add Geom', 'del GeomTb', and 'add Hole' buttons at the bottom. An 'OK' button is also visible. Below the map, there is a control bar with buttons for 'Upload', 'Download', 'Ready', 'New', 'Delete', and 'Cancel'. The 'S-100 Products' tab is selected. Below the control bar is a table with columns: Action, Product ID, Title, INT Region, Producer, Geom, Date, Version, Status, Comment, Catalogue Element, and Not For Navigation. The table contains one row with the following data: Action: New, Product ID: S-104, Title: 102KR000, INT Region: K, Producer: KR, Geom: (empty), Date: (empty), Version: (empty), Status: Scheme, Comment: (empty), Catalogue Element: Nautical Publication, Not For Navigation: False.

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 displays the IHO GEOTWO web application interface. At the top, there is a navigation bar with the user name "Hello GEOTWO", a "Disclaimer" button, a "Manual" button, and a "Logout" button. The main area shows a map of the Indian Ocean region, including countries like Azerbaijan, Turkmenistan, Tajikistan, China, Iran, Pakistan, Nepal, Bhutan, India, Bangladesh, Myanmar (Burma), Laos, Thailand, Cambodia, Philippines, Sri Lanka, and Indonesia. The map is overlaid with various layers, including Coastal, Approach, Harbour, and Berthing. A "Layers" panel on the right side of the map is highlighted with a red border. This panel contains two sections: "S-100 Scheme" and "S-100 Produced". Each section lists several layers (S-101, S-102, S-104, S-111, S-124, S-129) with a toggle switch, a color swatch, a "50%" value, and a "T" icon. The "S-100 Scheme" section has a "Default" link, and the "S-100 Produced" section also has a "Default" link.



❖ **Some display symbols on the map** Will be developed later by expressing simple symbols such as *(to be confirmed on 22 May IHO Secretariat/KHOA VTC meeting)*:

- **S-104**



- **S-111**



- **S-124**



NAVAREA

National NW

Local NW

(large↑,

medium↑,

small↑)

- **S-129**



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

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



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- ❖ **From 2026**, a tool to extract automatically SPIs in relation to S-100 Production if retained in the Revised IHO Strategic Plan (IHO Strategic Plan 2027-2023)
- ❖ **From 2026**, development of **INToGIS IV** for including **Phase II S-100 Products and ENDS**
- ❖ **Once S-128 files become available**, manual interface will become obsolete for existing products but may remain useful to some MS for planning /scheming