



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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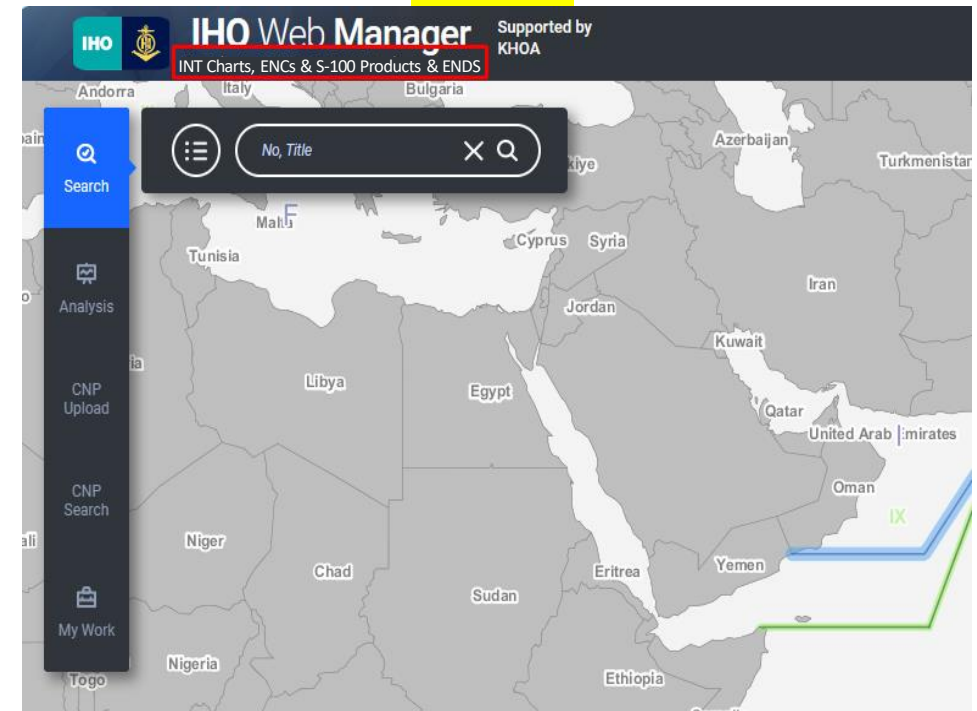
❖ Change the main title to read

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

AS-IS



TO-BE





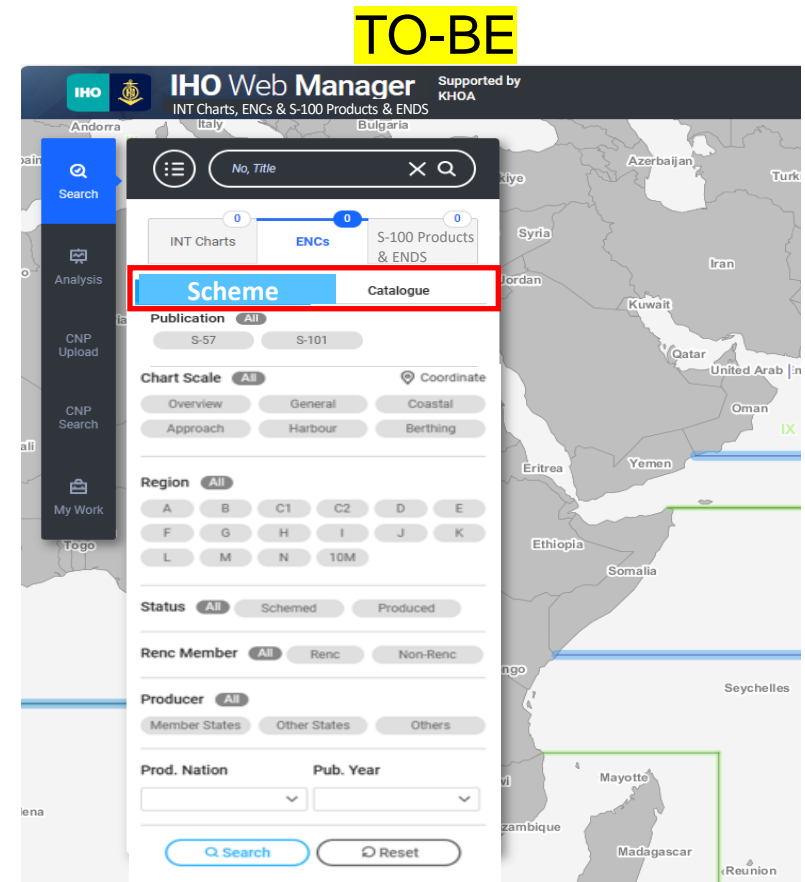
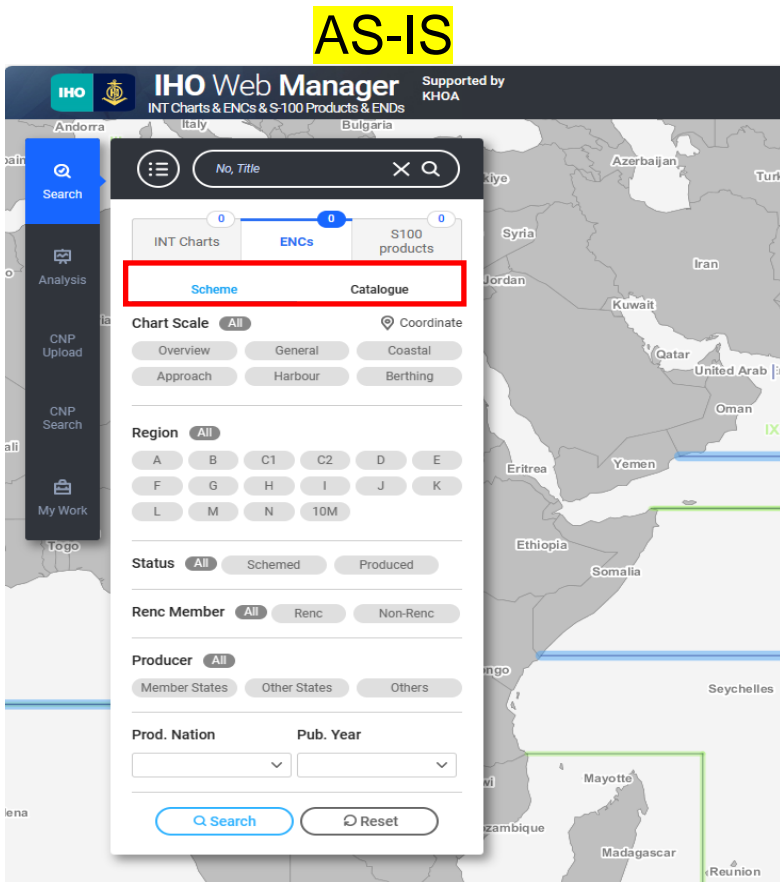
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❖ Change the ENC's tab interface

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





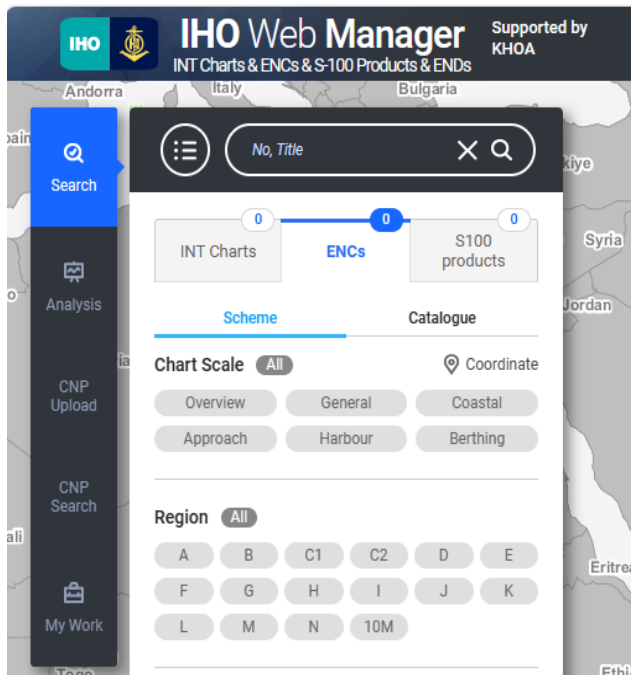
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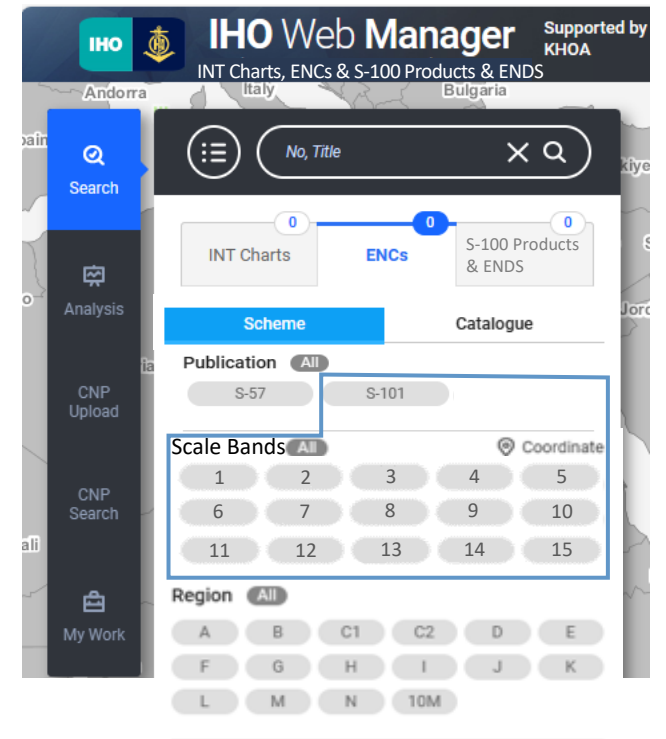
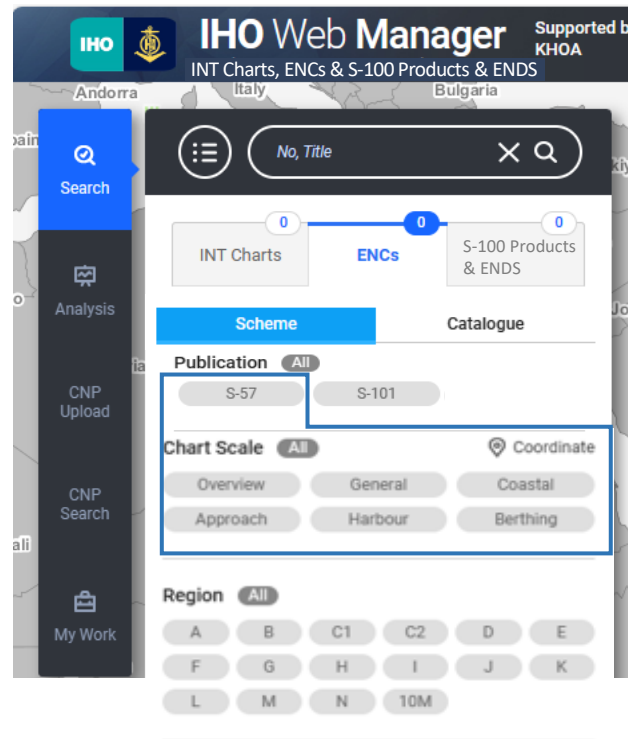
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- ❖ Add a product condition item to search for S-57, S-101 in ENC's scheme

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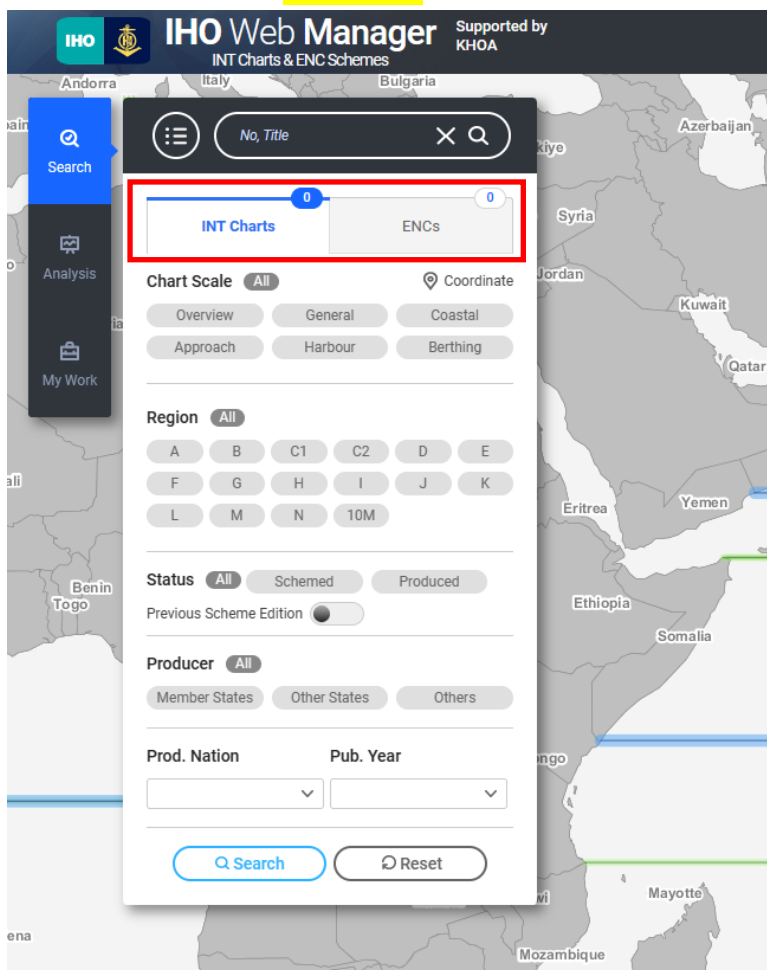
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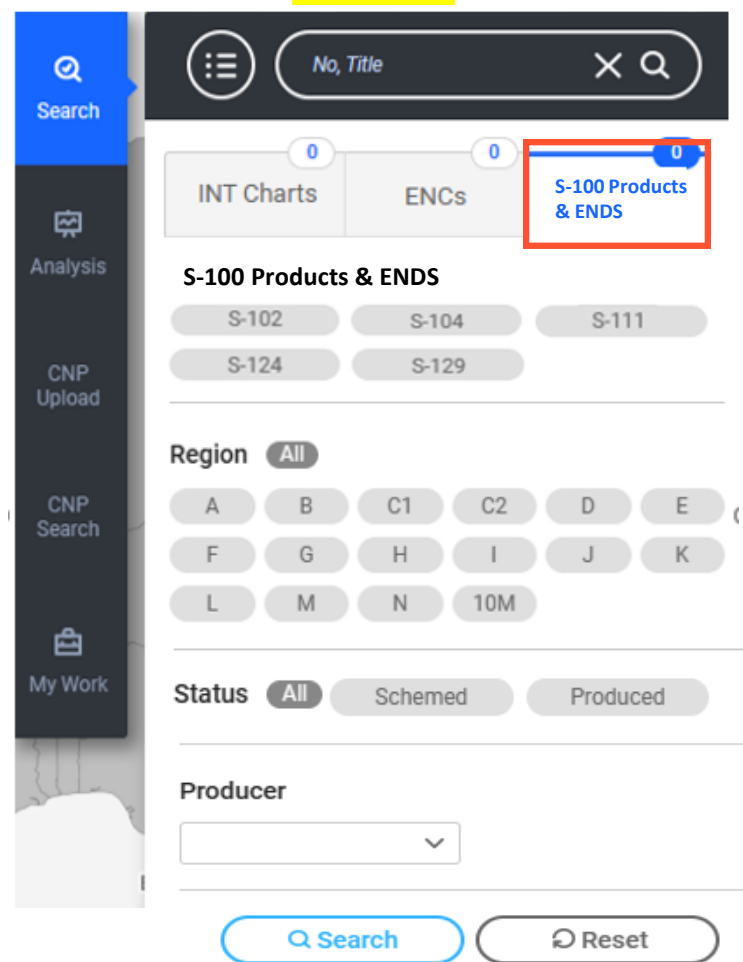
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❖ Add S-100 Products category for S-100 Products & ENDS (Phase I) search

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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 shows the IHO web application interface. A modal window for adding a polygon is open, with a red box highlighting the 'polygon' tab and the coordinate input fields. A red arrow points from the 'OK' button in the modal to the map preview. The map preview shows a yellow polygon on a map of the Pacific Ocean. Below the map, the 'S-100 Products' section is active, with a red box highlighting the 'S-100 Products' tab. The table below shows the 'Geom' column highlighted with a red box.

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 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 data layers, including a grid and colored areas representing different products. On the right side, there is a "Layers" panel with a "Layers" button and a "Layers" dropdown menu. The "Layers" panel is divided into two sections: "S-100 Scheme" and "S-100 Produced". Each section contains a list of products (S-101, S-102, S-104, S-111, S-124, S-129) with toggle switches, a color swatch, a "50%" value, and a "T" icon. The "S-100 Scheme" section is highlighted with a red border.

Layer Name	Toggle	Color Swatch	Value	Icon
Coastal	<input type="checkbox"/>		50%	T
Approach	<input type="checkbox"/>		50%	T
Harbour	<input type="checkbox"/>		50%	T
Berthing	<input type="checkbox"/>		50%	T
S-100 Scheme Default				
S-101	<input type="checkbox"/>		50%	T
S-102	<input type="checkbox"/>		50%	T
S-104	<input type="checkbox"/>		50%	T
S-111	<input type="checkbox"/>		50%	T
S-124	<input type="checkbox"/>		50%	T
S-129	<input type="checkbox"/>		50%	T
S-100 Produced Default				
S-101	<input type="checkbox"/>		50%	T
S-102	<input type="checkbox"/>		50%	T
S-104	<input type="checkbox"/>		50%	T
S-111	<input type="checkbox"/>		50%	T
S-124	<input type="checkbox"/>		50%	T
S-129	<input type="checkbox"/>		50%	T



❖ **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**

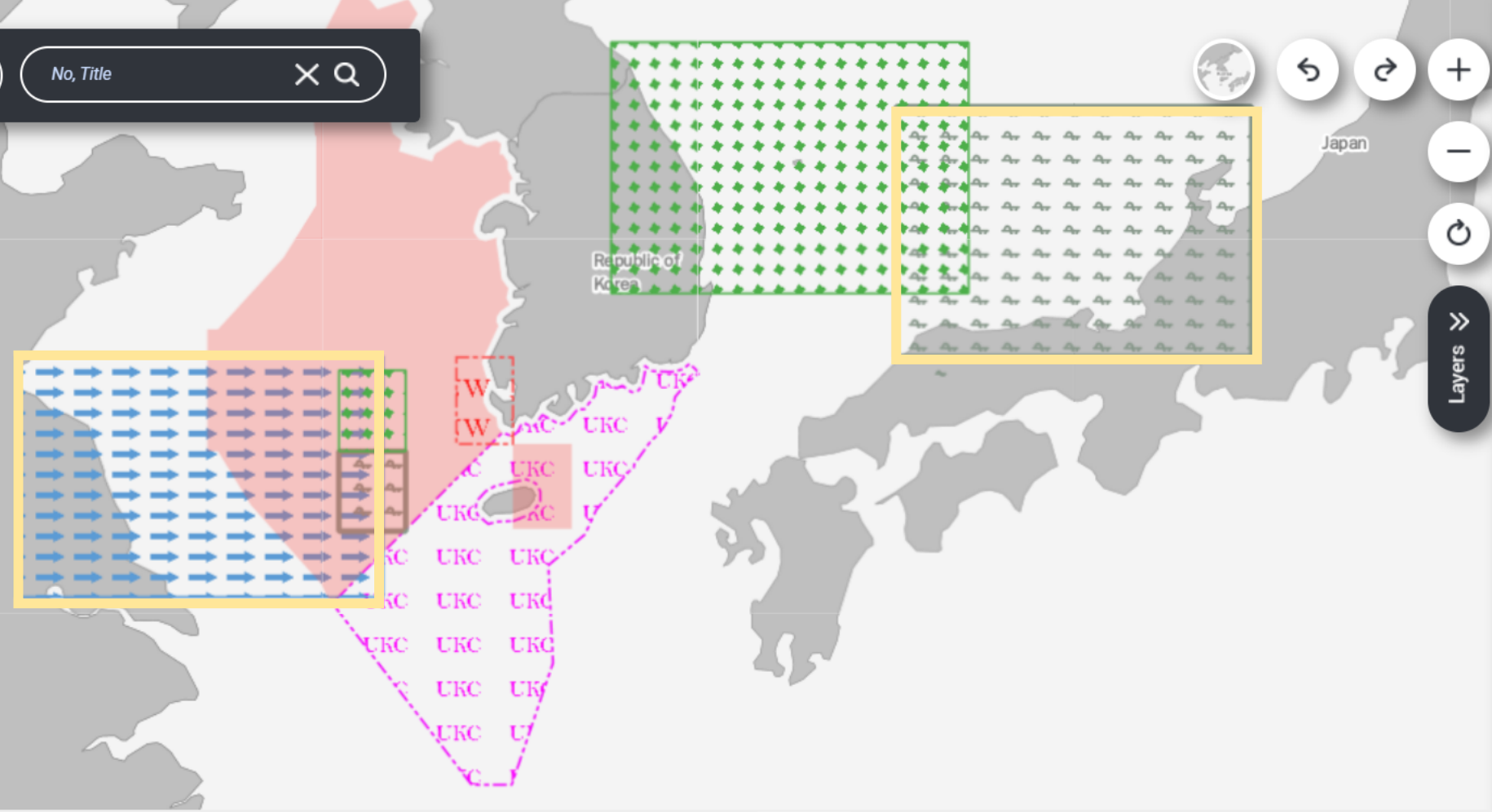


• Data flow INTOGIS I, INTOGIS III remains the same:

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

Search
Analysis
My Work

No, Title



Layers

Berthing 50%

S100 Products - Scheme (ver Default)

- S-101 [Red checkered]
- S-102 [Green diamond]
- S-104 [Blue anchor]
- S-111 [Blue arrow]
- S-124 [Red NW]
- S-129 [Purple UKC]

S100 Products - Produced (ver Default)

- S-101 [Red checkered]
- S-102 [Green diamond]
- S-104 [Blue anchor]
- S-111 [Blue arrow]
- S-124 [Red NW]
- S-129 [Purple UKC]

141° 16.28' E / 34° 17.11' N



- ❖ **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 (communication)
- ❖ **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