



7th S-100 Working Group (S-100WG) Meeting

S-100P Project Team

Agenda Item 3.11



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S-100P MEETINGS

International
Hydrographic
Organization

- 1st S-100P CG Meeting
 - 8 June 2021 – VTC
 - Agree to prepare platforms such as web viewer and Wiki to discuss the S-100P project before the 2nd meeting.
- 2nd S-100P CG Meeting
 - 23 November 2021 – VTC
 - Theme 1: Web viewer was introduced and demonstrated for sharing S-XXX TDS
 - Theme 2: Wiki for S-100 Tools was discussed
 - Theme 3: Proposed plan of Open source management and operation was presented
 - 3 years work plan was introduced

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S-100P PROJECT

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• Building blocks and 4 Themes

No.	Title	Themes	Actions for short term	Activity Tools (Working Place)
1	GI Registry	- Theme 1 - Online Viewer and Simulation	<ul style="list-style-type: none">Members produce TDS described in the S-100 implementation roadmapShare the TDS via GI Registry and Web Viewer	Web Viewer provided by KHOA
2	Test Datasets			
3	Production Tools	- Theme 2 - Data production and Protection scheme	<ul style="list-style-type: none">Identify what tools are required to product and service S-100 productsInvestigate which tools are availableGather available tools and links to accessWrite wiki to record the status and changes of tools	Wiki for Theme 2
4	Validation Tools			
5	Storage Tools			
6	Protection Tools			
7	Dissemination Tools			
8	Data viewer	- Theme 3 - Open source management and Operation	<ul style="list-style-type: none">Prepare open source for S-100 ViewerImprove the open source for the purpose of shore based ECDISOperate and mange the open source	Gitub for Theme 3
9	Knowledge Base	- Theme 4 - Knowledge base and Capacity building	<ul style="list-style-type: none">Hold a webinarDevelop input and requirements to submit to S-100 and PS developers	Online meetings by VTC
10	Capacity Building			

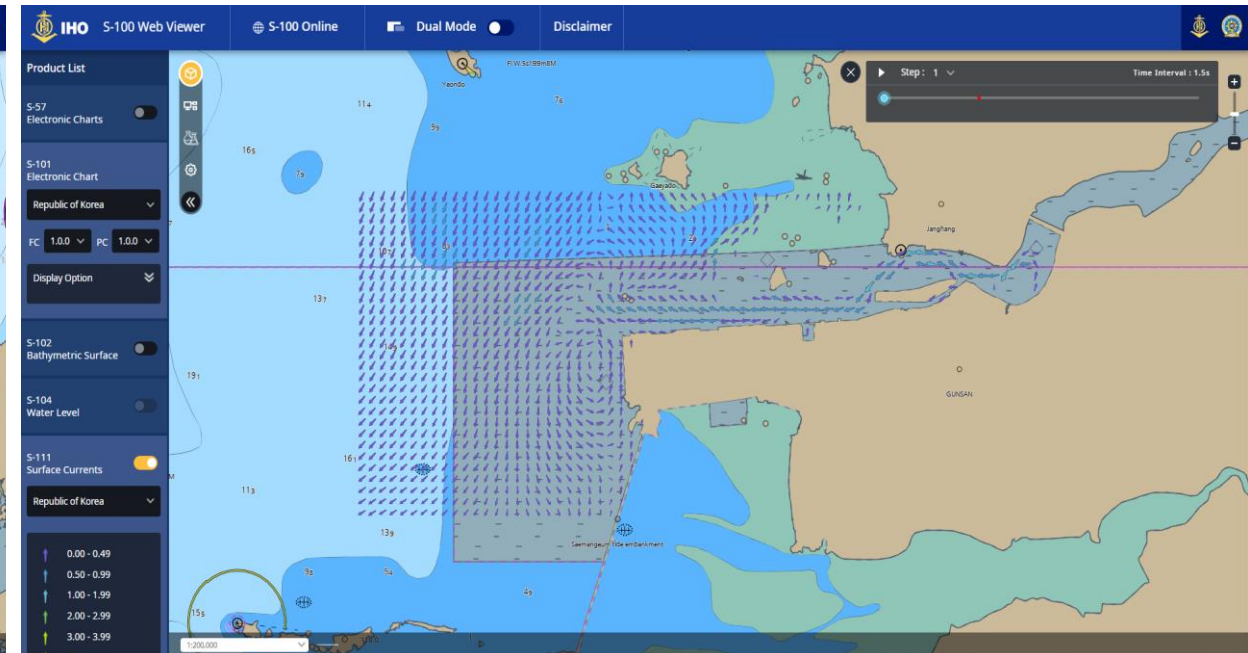
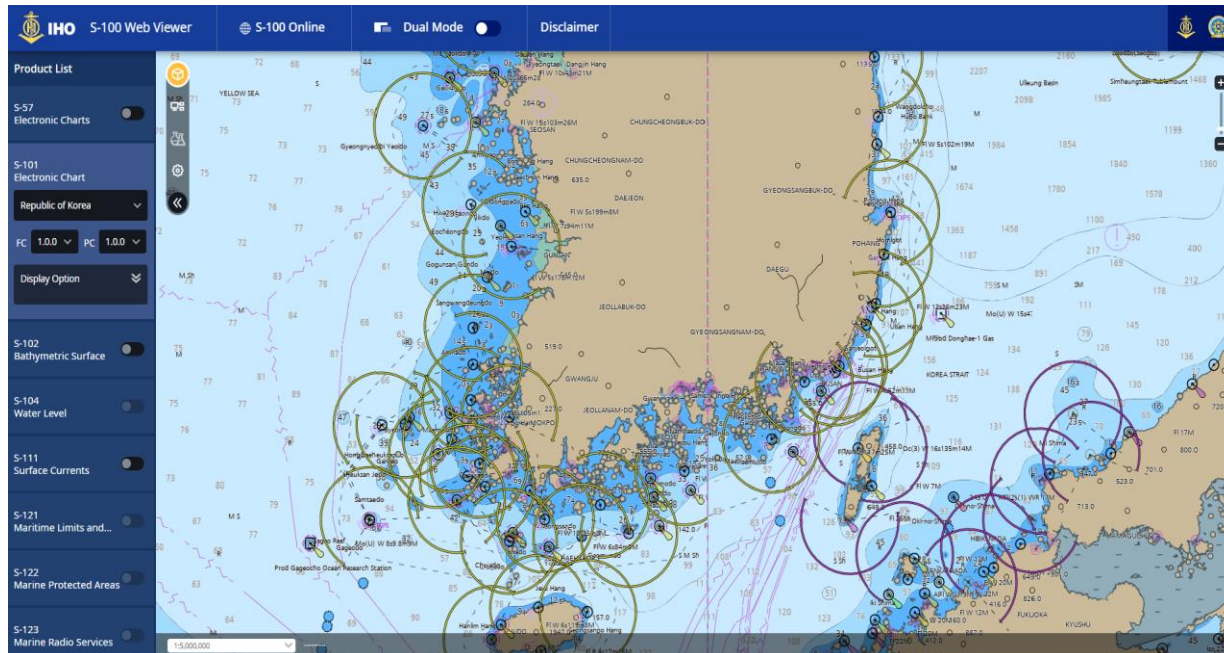


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THEME 1 (ONLINE VIEWER)

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- What is the Online Viewer?
 - Support loading and viewing of S-10X data on the website for test purpose
 - <http://119.195.114.103:8080/webview/>





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THEME 1 (ONLINE VIEWER)

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- Sharing S-100 Test Dataset on the online platform
 - Upload the S-10x TDS and provide metadata
 - Share the registration status of the TDS and download files

Test DataSet List

Test Data Sets are utilized to develop S-100 based Product Specifications and Services. It's also shared with the S-100 Open Online Platform Project.

Status: ALL Category: ProductID

No	Product ID	Project Name	Producer Code	Status	Proposed Date	View
1	S-102 Bathymetric Surface	Canada S-102 TDS	CA	Completed	16/11/2022 15:03	Go to viewer
2	S-102 Bathymetric Surface	UKHO S-102 Bristol	GB	Under review	16/11/2022 13:52	-
3	S-102 Bathymetric Surface	KHOA S-102	KR	Completed	16/11/2022 11:41	Go to viewer
4	S-101 Electronic Navigational Chart (ENC)	UKHO S-101	GB	Under review	16/11/2022 11:40	-
5	S-101 Electronic Navigational Chart (ENC)	KHOA S-101 (Level 5)	KR	Completed	16/11/2022 11:39	Go to viewer
6	S-101 Electronic Navigational Chart (ENC)	KHOA S-101 (Level 4)	KR	Completed	16/11/2022 11:38	Go to viewer
7	S-101 Electronic Navigational Chart (ENC)	KHOA S-101 (Level 3)	KR	Completed	16/11/2022 11:37	Go to viewer
8	S-101 Electronic Navigational Chart (ENC)	KHOA S-101 (Level 2)	KR	Completed	16/11/2022 11:35	Go to viewer
9	S-101 Electronic Navigational Chart (ENC)	KHOA S-101 (Level 1)	KR	Completed	16/11/2022 11:32	Go to viewer

Showing 1 to 9 of 9 rows

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KHOA Acknowledgements

< TDS Sharing Platform Board >

Test DataSet List

Test Data Sets are utilized to develop S-100 based Product Specifications and Services. It's also shared with the S-100 Open Online Platform Project.

Product ID *

Project Name *

Producer Code *

Contact Email *

Remarks

Feature Catalogue *

Portrayal Catalogue *

Test DataSet *

Country * Region *

Do you allow the file to be downloaded? *
☒ YES ☐ NO

Detail View

Product ID 1 S-101 Electronic Navigational Chart (ENC)

Project Name 1 UKHO S-101

Producer Code 1 GB

Proposed Date 1 16/11/2022 11:40

Remarks

File [Download all files](#)

Feature Catalogue 1

Portrayal Catalogue 1 S-101_PC.zip

Test DataSet 1

Country United Kingdom
Region England

101GB0040242B.000
101GB0040242C.000
101GB0050242A.000

CLOSE

< TDS Sharing Platform DataSet Upload & Download >

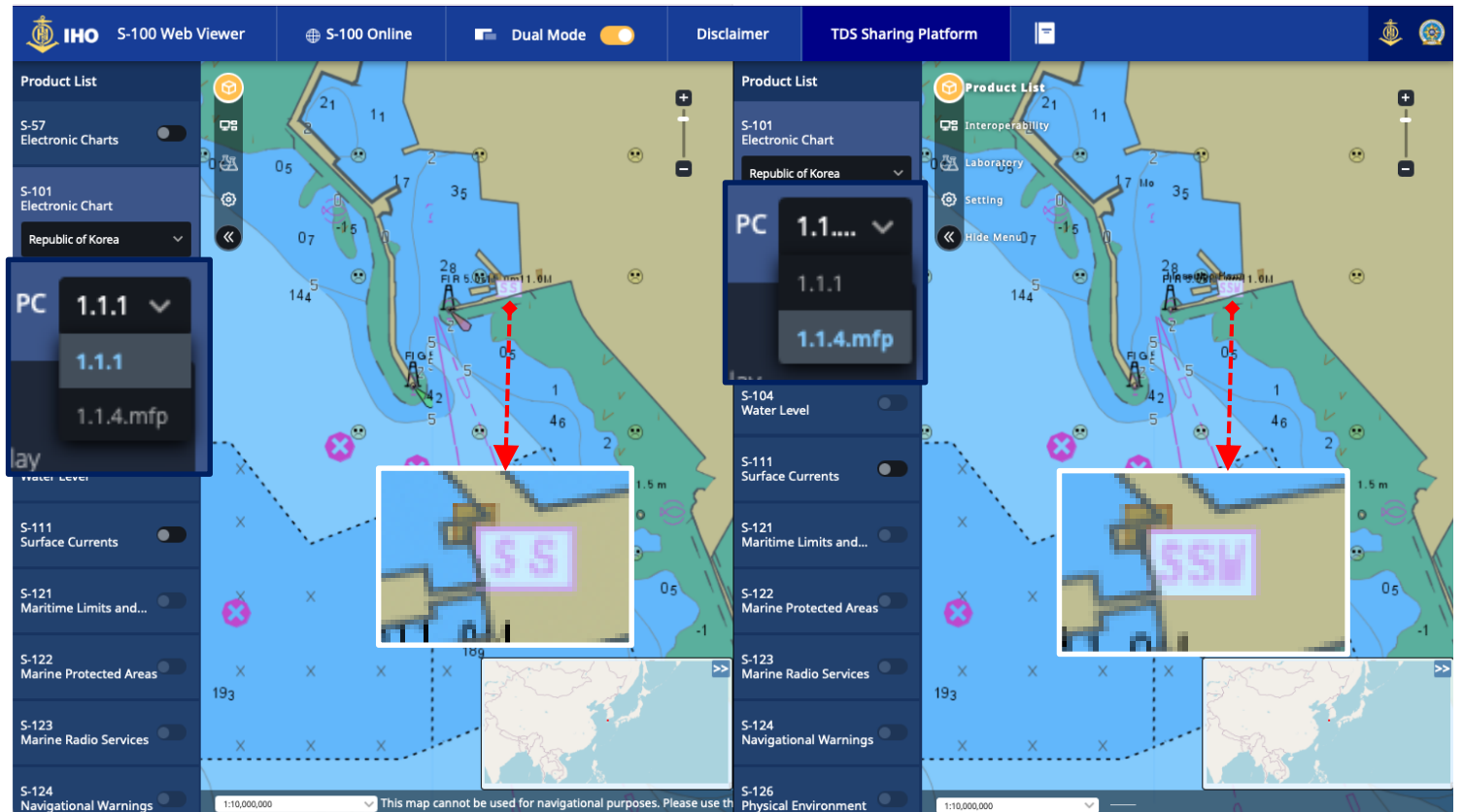


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THEME 1 (ONLINE VIEWER)

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- Support for the comparison of S-101 portrayal catalogue version
 - Display the registered TDS in S-100 Web Viewer
 - Compare with symbol comparison according to the selected pc





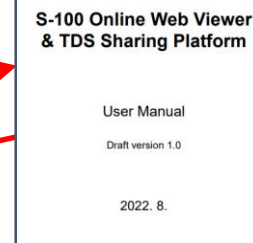
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THEME 1 (ONLINE VIEWER)

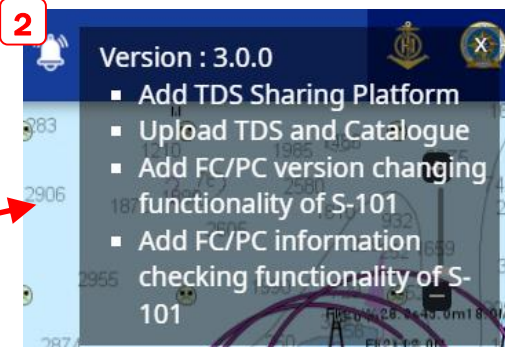
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- Manual, Loading Status, Mini Map...

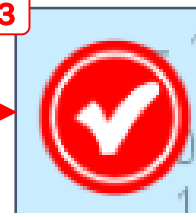
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2



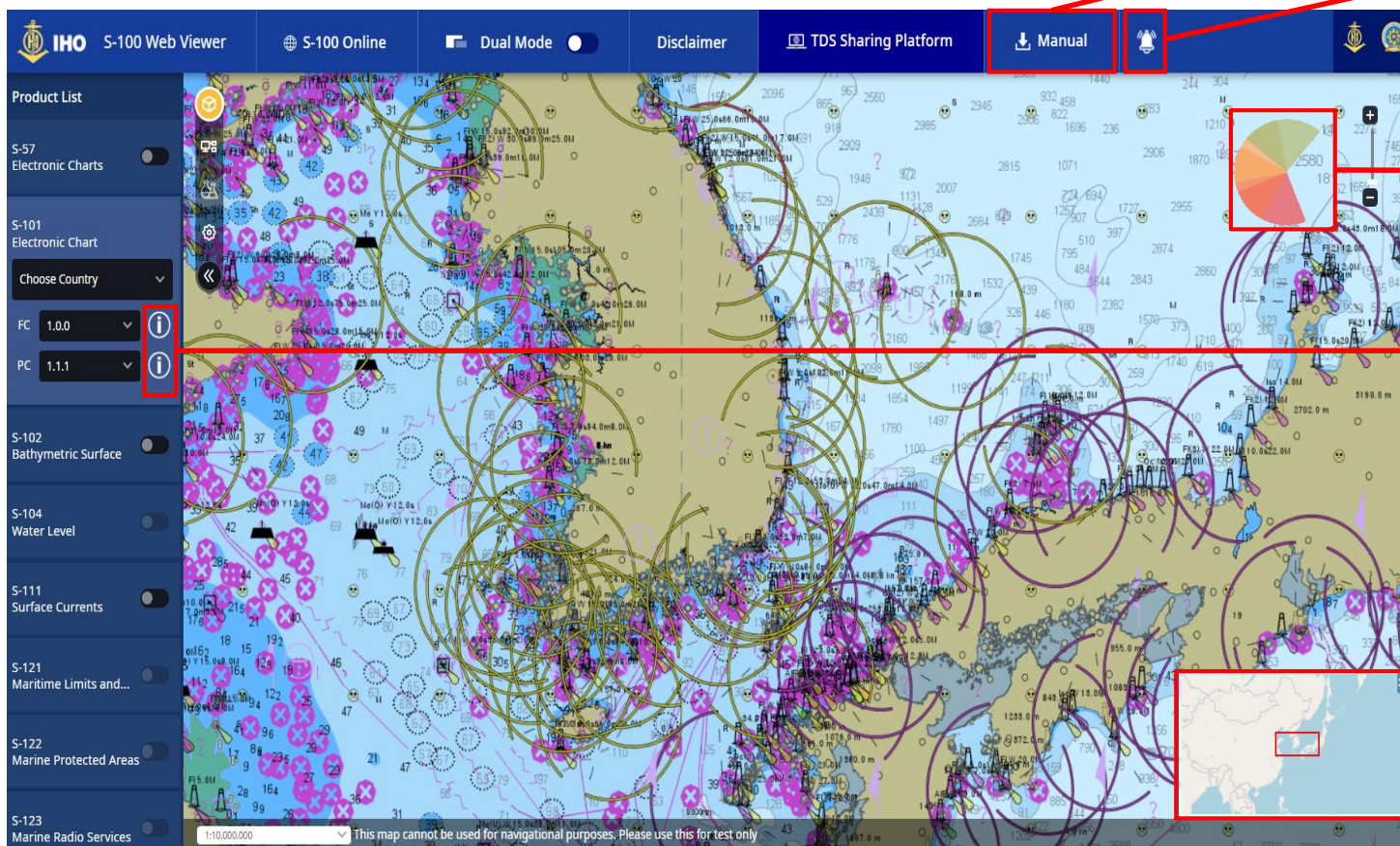
3



4

FC Information	
Version	1.0.0
Organization	International Hydrographic Organization
Version Date	2019-04-09

5



< S-100 WebViewer >

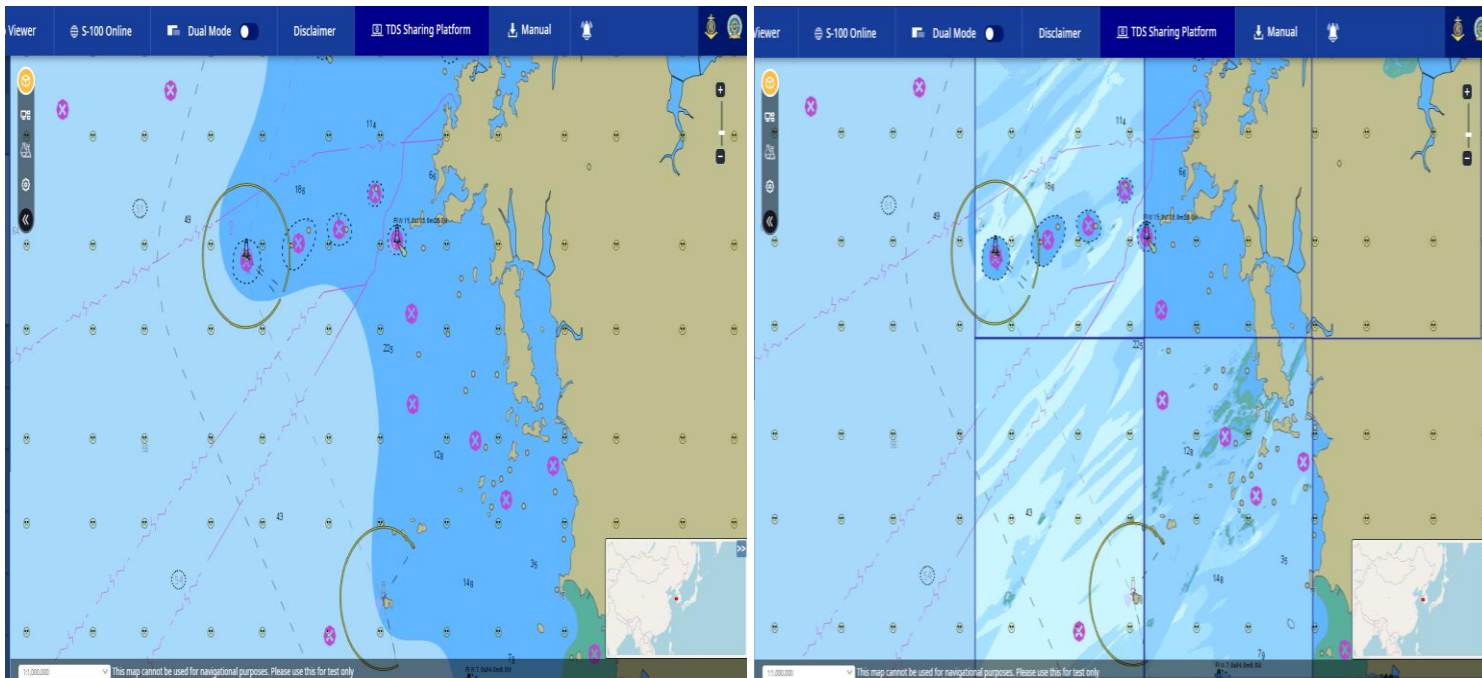


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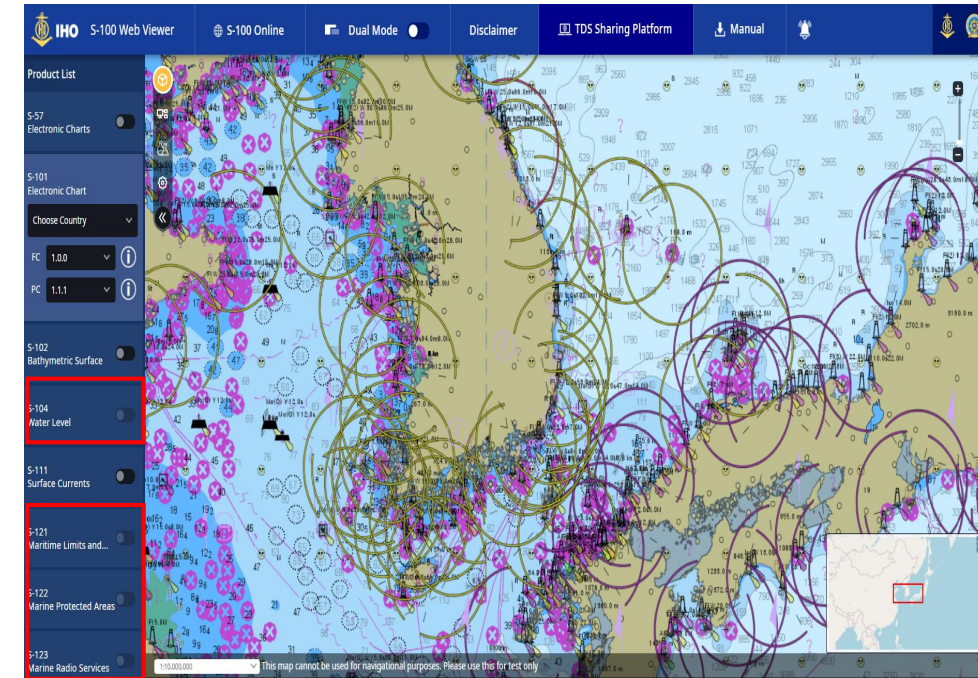
THEME 1 (ONLINE VIEWER)

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- Other improvements
 - Apply S-98 : adjust S-101 layer for S-102 (Level 1)
 - Plan to expand other various S-100 based products



< S-101 – S-102 Interoperability Level 1 >



< New types of products in S-100 Webviewer >



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THEME 2 (WIKI)

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- S-100P WIKI
 - Testbed work, development tools(Viewers, PCB, FCB..)
 - Provide and share the latest S-100 information and supporting tools
 - <http://119.195.114.103:8080/xwiki/>

Navigation

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S-100 Tools

Dissemination Tools

Production Tools

Protection Tools

Storage Tools

Validation Tools

S-101 Validation

Testbeds

Viewers

Other resources

Education and Training

S-100 Products

S-101 ENC

S-102 Dense Bathymetry

search...

About S-100P

Last modified by sewoongoh on 2022/11/22 10:29

S-100 Open Online Platform

- Overview & Background
 - The primary goal for S-100 is to support a greater variety of hydrographic-related digital data sources, products, and customers available
 - However, the development of the S-100 standard has been difficult for supporting various use cases as only a few S-100 experts and industry partners have been participating in
 - Needs of a GATEWAY to S-100 world for different potential users, developers
- What is S-100P?
 - S-100P is an S-100 community platform to accelerate wider adoption of the S-100 hydrographic framework by joint development.
 - The platform shares required building blocks to the public to overcome any technical difficulties for S-100 implementation.
- Visions
 - Support the introduction of the IHO S-100 Roadmap for the Implementation Decade.
 - Establish an online platform for testing S-100 based data and sharing information for the hydrographic community as well as other potential ones.
 - Develop a gateway to the S-100 World for different potential users and developers.
- Progress
 - 5th S-100WG meeting (March 2020)
 - WG requested voluntary participation
 - 12th HSSC meeting (October 2020)

< S100P Main Site >

Navigation

About S-100P

S-100 Tools

Dissemination Tools

Production Tools

Protection Tools

Storage Tools

Validation Tools

S-101 Validation

Testbeds

Viewers

Other resources

Education and Training

S-100 Products

S-101 ENC

S-102 Dense Bathymetry

search...

Global Administration: Groups

Manage user groups: add or remove groups, or change group members.

Search for...

Results 1 - 6 out of 6 per page of 15

Page 1

Group Name	Members	Actions
AdminGroup	0	Edit Delete
CommentGroup	0	Edit Delete
EditGroup	8	Edit Delete
ScriptGroup	0	Edit Delete
ViewGroup	0	Edit Delete
XWikiAllGroup	37	Edit Delete

Results 1 - 6 out of 6

Page 1

Create group

Look & Feel

< S100P ID – Group Authority >



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THEME 2 (WIKI)

- S-100P WIKI

- Identify what tools are required for S-100 products production and service
- Investigate which tools are available
- Gather available tools and links to access
- Write wiki to record the status and changes of tools

Initial category		Proposed change	Status
Dissemination Tools	→	Dissemination Tools	Invited to write
Production Tools	→	Production Tools	8211, GML, HDF-5 Tools
Protection Tools	→	Protection Tools	Invited to write
Storage Tools		X	
Validation Tools	→	Validation Tools	SevenCS S-101 Validation
Testbeds	→	Testbeds	KHOA Testbed NIWC, Norway invited
Viewers	→	Viewers	KHOA Viewer, Online NIWG invited
Other resources	→	Other resources	Open source S-100
		Standard Tools	FCB, PCB, DCEG, SVG Editor etc.



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THEME 3 (VIEWER)


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- Maintenance of KHOA S-100 Viewer
 - version 1.0.17 is available
 - S-10x GML editing function (prototype), improved conformity to S-100 portrayal standard, S-102 2.1.0 support
 - Improvement of other user convenience functions, etc.
 - Improved system stability and functions by resolving issues registered
- Use of Viewer
 - Release open source Viewer
 - Review of pilot-produced S-10X data
 - KHOA's S-100 data test
 - Applied to the development of the S-98 interoperability catalogue
- Planned update
 - S-100 5.0 support(2023), Exchange set and metadata, S-98 IC



THEME 3 (VIEWER)

- Open S-100 (Open source of KHOA S-100 Viewer)
 - Open source preparation
 - Organize the source code for the process and portrayal of S-101 ENC
 - Improve the FC/PC module function compared to the S-100 Viewer
 - Implications
 - Open source version of KHOA S-100 Viewer
 - Available for commercial purpose based on ML 2.0 license
 - Plans
 - Fully support the S-100 5.0
 - S-101 Exchange set and metadata
 - Support the GML and HDF-5 data

A screenshot of the OpenS-100 software interface. The window title is 'OpenS-100'. The main display area shows a map of a coastal region, likely a bay or harbor, with various navigational markers, including buoys, lights, and depth soundings. The map is color-coded with green for land and blue for water. There are several labels in Chinese characters, such as '香港' (Hong Kong) and '深圳' (Shenzhen). The interface includes a toolbar on the left with various icons for map manipulation and a status bar at the bottom.