

Paper for Consideration by TSM4

Update of KHOA Testbed

Submitted by:	Republic of Korea (KHOA)
Executive Summary:	This paper outlines the update of KHOA Testbed
Related Documents:	S-100, S-100 Test Framework
Related Projects:	IHO S-100/S-101 Test Bed Project

Introduction / Background

KHOA has conducted a research project to cope with the development of IHO S-100 and developed the S-101 Viewer as KHOA Testbed. KHOA and NOAA agreed on technical cooperation of IHO S-100/10X testbed and established a joint project. As a plan of this year within the joint project, it's supposed to improve the S-101 viewer developed by KHOA.

Analysis/DiscussionProgress of updating the KHOA Testbed

The contents of joint project between KHOA and NOAA is to improve the S-101 Viewer developed by KHOA in this year. The detailed content is like below:

- Extending the Simple Viewer that was initially developed by KHOA to incorporate different types of S-100 based products and to handle additional capabilities of S-101 such as:
 - Exchange Sets
 - Support Files
 - Expanded Metadata information
 - S-102 high resolution bathymetry datasets
 - GML format
 - Adopt S-100 Portrayal mechanism

KHOA is considering the S-122 MPA (Marine Protected Area) for the test of GML format in accordance with the recommendation of NIPWG. The research team made a progress on S-100 portrayal process, operation of GML format and S-102 BAG data by the time. The data loading and unloading part were been developing based on the exchange set including metadata and support files.

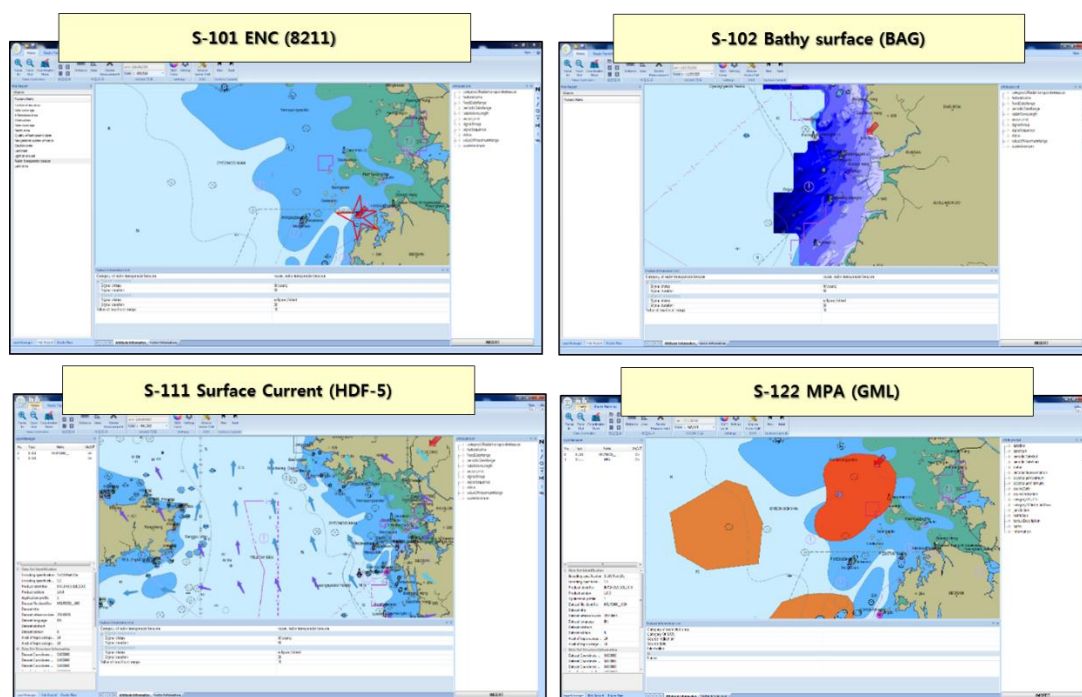


Figure 1. Update of KHOA Testbed

Discussion topics

It was identified that below packages need to be ready for developing the S-100 viewer properly.

	Encoding	Exchange set Catalogue	TDS	FC	PC
S-101 ENC	8211	Yes	Yes	Yes	Yes
S-102 Bathy	BAG	No	No	No	No
S-122 MPA	GML	No	No	No	No

When the full package on S-101, S-102, S-122 including the metadata, TDS, FC, PC is ready in the baseline level at least, the S-100 viewer can be developed as planned. The package of S-101 is available, but S-102 and S-122 is not. Therefore, the meeting is invited to discuss this issue that S-102 PT and NIPWG can support KHOA testbed on the package including TDS, FC and PC. If the support from the group cannot be available, temporal information will be used to forward the KHOA testbed in this year.

Future plan

The research team will speed up developing the S-100 viewer, which 8211, BAG and GML format is available and draft the viewer until November. After discussing with NOAA, the work will be finalized in December. KHOA and NOAA agreed to demonstrate the S-100 Viewer in the 2017 e-Navigation Underway Conference. In this connection, the preparation of demonstration will be followed at the beginning of next year.

Action Required of TSM4

The TSM4 is invited to:

- a. note the progress reported in this paper.
- b. discuss the issues raised in the discussion topics