

**Joint 18th TSMAD & 1st DIPWG Meeting
Ottawa, Canada, 4-8 May 2009**

Paper for Consideration by TSMADWG/DIPWG

S-101 User Outreach

Submitted by:	United States (NOAA)
Executive Summary:	This paper summarizes ongoing user outreach activities and potential user outreach activities concerning the development of S-101
Related Documents:	Any relevant documents and references to the extent that they are known to the originator.
Related Projects:	Any related projects that may impact upon considerations

Introduction / Background

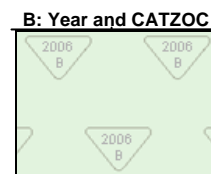
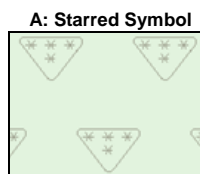
In order to develop S-101, it was determined that there should be a user outreach component in order to poll the mariners and manufacturers regarding potential changes to S-101. The United States has begun preliminary user outreach to its customer base using a questionnaire. However, user outreach should be coordinated by both TSMAD and DIPWG to ensure that there is a common message sent from the working groups to various member states and to the private sector. This paper summarizes the United States effort and provides other potential questions that could be used by member states for their own user outreach activities.

Analysis/Discussion

Every three years the United States (NOAA) conducts a customer satisfaction survey to approximately 8000 – 9000 mariners and users. The recipients of the questionnaire include members of the BoatUS Boat Owners Association, Local Port Authorities, the Masters and Mates Union, Workboat companies, the US Navy and Coast Guard. Normally, this survey focuses on products and services provided by NOAA. However, this year NOAA was able to include several questions regarding the presentation of S-52 data for the purposes of developing portrayal for S-101. The questions are as follows:

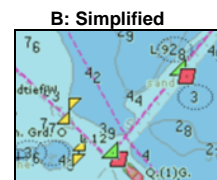
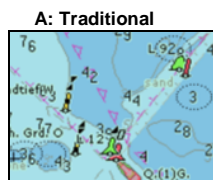
Q.19. If Hydrographic survey quality areas could be portrayed with the Starred Symbol (as shown in A) or the Year of the survey and the Zone of Confidence level (CATZOC) (as shown in B). Which of these would you prefer?

- A Starred Symbol
 - B Year and CATZOC
 - C No opinion
- 1(63)
 2
 3



Q.20. There are two types of ECDIS Buoy symbology– Traditional as in A and Simplified as in B. Which do you prefer?

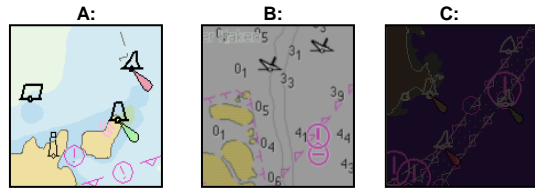
- A Traditional
 - B Simplified
 - C No opinion
- 1(64)
 2
 3



Q.20a) Which ECDIS color palette do you prefer to use to navigate at night?

- A
- B
- C

- 1 (65)
- 2
- 3



Q.20b) How often do you navigate at night?

- Regularly
- Sometimes
- Never

- 1(66)
- 2
- 3

The results of this survey are expected to be available in late April 2009 and will be presented at the joint TSMAD/DIPWG meeting in May.

In addition to the survey done by the United States, there is a need to develop a common questionnaire that member states can use to survey their own maritime communities. The following potential questions are provided to start the discussion of developing a common questionnaire.

Proposed questions and topics for Questionnaire on improvements to ENC.

- 1) As a mariner, are you interested in 'layers' of information grouped for specific users (fishing, recreational, military)? Yes/No
- 2) Do you view ECDIS 'read-me' files? Yes/No
What type of information would you like added/removed from new readme files?

- 3) What features do you believe are most extraneous? _____
- 4) List 3 features you would like to see improved upon in the implementation of S-101? (e.g. lights, traffic separation schemes)
 - a. _____
 - b. _____
 - c. _____
- 4.a) What improvements would you recommend for each of these features?
 - a. _____
 - b. _____
 - c. _____
- 5) On a scale of 1-10 (with 10 being the greatest level of understanding) do you understand the portrayal of S-57 features _____
- 6) List the optimal file size you would like to use for uploading patches
Less than 1mb/2mb/5mb/10mb/20mb/50mb/100mb/1gig
- 7) As a navigator, what additional information would you find essential for digital navigation?

- 8) As an OEM, should the 8 character rules for defining character sets be relaxed? Yes/No
- 9) Do you find nautical publications useful as overlays? Yes/No -- If No, would you prefer them as separate features? Yes/No

In addition, the delegate from Japan also proposed the following questions for user outreach in relation to maximum cell size:

1. What are the dimensions of the cell that is desirable for end-users?
2. What is the maximum cell size that is desirable for manufacturers?
3. What type of chart contents would necessitate the need for larger cell sizes. E.g. depth contours?
4. What is the data size which is acceptable for existing hardware installed by revised software?

Conclusions

The United States (NOAA) believes that in order to enhance S-101 with new features and presentation that it is essential that user outreach is performed. The United States would like to see a common questionnaire that is used by the IHO and Member States in order to gage the reaction of the maritime community to the proposed changes.

Recommendations

The United States recommends that a common questionnaire be developed by TSMAD and DIPWG for user outreach.

Action Required of [HSSC] [Relevant HSSC WG]

The TSMAD/DIPWG is invited to:

- a. endorse the development of a common user outreach questionnaire.