

**Outcome of NAVAREA XI Regional Conference to discuss Navigational Warnings
Overlays in ECDIS**

Submitted by Japan

SUMMARY

Executive Summary: Report on the outcome of NAVAREA XI states meeting to consider Navigational Warnings Overlays in ECDIS

Action to be taken: Paragraph 3

Related documents: None

- 1 Outcome to discuss Navigational Warnings Overlays in ECDIS (WWNWS 2/3/5/3A: MSI Overlays in ECDIS) submitted by IHB at WWNWS Meeting 2.
- 2 Outline of NAVAREA XI Regional Conference on World-Wide Navigational Warnings
 - 2.1 Objectives
As an effort to realize the overlaying of navigational warnings, we gathered organizations involved in navigational warnings, Japanese satellite communication companies, and ECDIS manufacturers in one place to exchange opinions on issues associated with superimposing information on ECDIS with the premise of offering suggestions to international organizations in order to encourage future discussions.
 - 2.2 Organization
Hydrographic and Oceanographic Department, Japan Coast Guard
 - 2.3 Co-host
Ocean Policy Research Foundation
 - 2.4 Date
19 to 22 Oct. 2010
 - 2.5 Participants
China (Maritime Safety Administration)
Indonesia (Head of Research and Development Division, Indonesian Hydrographic Office)
Republic of Korea (Korea Hydrographic and Oceanographic Administration)
Malaysia (National Hydrographic Centre)
Philippines (Hydrographic Department, National Mapping and Resource Information Authority)
Singapore (Maritime and Port Authority of Singapore)

Thailand (Hydrographic Department, Royal Thai Navy)
Vietnam (AtoN and Hydrographic Department, Vietnam Maritime Safety-North)
Japan (Hydrographic and Oceanographic Department, Japan Coast Guard)
Vice chairman of WNWNS (Francois Lacroze)
NAVAREA VIII (India, National Hydrographic Office)
Satellite Communications Company (KDDI)
ECDIS manufacturers (JRC)

2.6 Agenda Items

- (1) Opening and Explanation of Conference schedule
- (2) Country Report
- (3) Keynote address by Mr. F. Lacroze, Vice-chairman of WNWNS
- (4) The discussion for overlaying navigational warnings in ECDIS
- (5) Preparation for the Conference report
- (6) Closing

2.7 Outcome

NAVAREA XI Regional Conference on World-Wide Navigational Warnings was held by 9 countries within NAVAREA XI region; China, Indonesia, Japan, Republic of Korea, Malaysia, Philippines, Singapore, Thailand, Vietnam, as well as India from adjacent region (NAVAREA VIII Coordinator) and WNWNS (Vice-Chairman: France).

WWNWS Vice-chairman presented current status review of E-navigation, examples of warning format, and review relating to ECDIS display on the WNWNS 2 meeting in 2010.

Satellite communications company “KDDI” presented status of safety net service on INMARSAT-C.

ECDIS manufacturer “JRC” presented examples of navigational warnings displayed on ECDIS and issues for display.

Based on their presentations, participants concluded that it is technically possible to display Navigational Warning provided by NAVTEX on ECDIS device and that it is also supposed to be possible to display Navigational Warning by INMARSAT with some problems to be considered.

Japan presented background and significance for displaying Navigational Warning on ECDIS, issues for displaying and proposed concept in cooperation with the WNWNS for consideration.

Through the discussion participants shared the recognition of the importance of displaying Navigational Warnings on ECDIS and the issues listed below, and decided to carry out reviews continuously.

- Standardization of the format of Navigational Warnings.
- Development of standard for the transfer method of Navigational Warning information from radio receiver to ECDIS.
- Data management to display Navigational Warnings on the ECDIS.

APPENDIX 1 Answer and/or comments about proposal concerning overlays of navigational warnings in ECDIS.

APPENDIX 2 Outline of Proposal for overlaying navigational warnings in ECDIS.

3 The Sub-Committee is invited to note the report.

Answer and/or comments about proposal concerning overlays of navigational warnings in ECDIS.

Q1 On overlaying of navigational warnings in ECDIS

[YES]

China, Indonesia, D.P.R of Korea, R of Korea, Malaysia, Philippines, Singapore, Vietnam.

[NO]

India, Thailand.

[Comment]

D.P.R of Korea ;

Navigational warnings overlaid in ECDIS will make effective and efficient contribution to safe navigation.

Malaysia ;

National Hydrographic Centre(NHC) is very well agreed with the proposals to make an overlay of navigational inside ECDID. Such proposal need to be layout properly especially on the correct use of primitive geometry, attribute and metadata values so that Host will able to produce and render the navigational warnings clearly to the mariners.

Philippines ;

Having navigational warnings included in one window will provided more accessibility to important navigational information which can be related promptly on electronic navigational chart for better understanding and decisive.

Q2 On unifying the format of navigational warnings internationally to overlay district information etc. of the navigation warning is ECDIS.

[YES]

China, Indonesia, D.P.R of Korea, R of Korea, Malaysia, Philippines, Singapore, Vietnam

[NO]

India, Thailand.

[Comment]

D.P.R of Korea ;

We agree to the united format of the navigational warning to an ECDIS Internationally.

Malaysia ;

Since NHC is only responsible to produce and distribute NTMs, this issue requires further discussions with Malaysian Marine Department. A proper coordination between domestic and international agencies also needs to be identified so that no repetitions of warnings distributed to mariners will happened.

Philippines ;

It would be proper that the format of the navigational warning is consistent to an ECDIS internationally for ease of comprehension.

Q3 On unifying technical standards internationally to overlays navigational warning in ECDIS.

[YES]

China, Indonesia, D.P.R of Korea, R of Korea, Malaysia, Philippines, Singapore, Vietnam

[NO]

India, Thailand.

[Comment]

China ;

1. Technical standards should be made by all national co-ordinator together.
2. The standards also should consider about the present conditions of maritime development in developing countries.

D.P.R of Korea ;

A technical standard to overlay navigational warning in ECDIS should be united to the ECDIS internationally.

Malaysia ;

It is more easy for the cartographers if the technical standard will be exactly same with the current S-57 format.

Philippines ;

A technical standard to overlay navigational warning in ECDIS which is uniform to the ECDIS internationally will give appropriate information to the ECDIS manufacturers

Q4 Other Comments

D.P.R of Korea ;

Loading ECDIS is duty-ized one by one from 2012, so ECDIS should be purchased cheap or free for at least an authority in charge of safe navigation in a country so that the authority can widely disseminate it to ship owners only for which it is responsible. Otherwise its great contribution to the safe navigation will become less efficient.

Philippines ;

In general, this initiative will be a significant contribution by NAVAREA XI region.

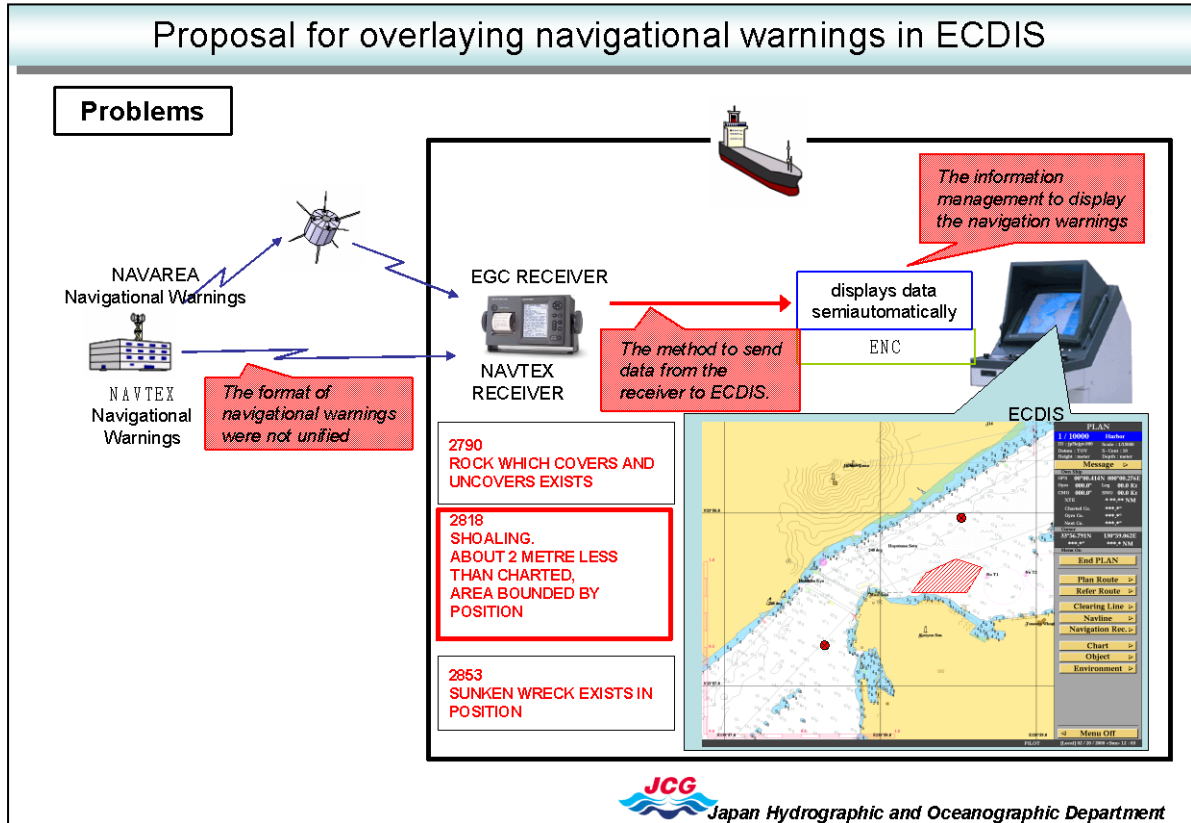
Thailand ;

Very interest, and will develop in future.

India ;

This office of the opinion that NAVAREA Warnings may not be included as separate layers in the ECDIS, as they are short term warnings that may be updated manually.

Outline of Proposal for overlaying navigational warnings in ECDIS.



Proposal for overlaying navigational warnings in ECDIS

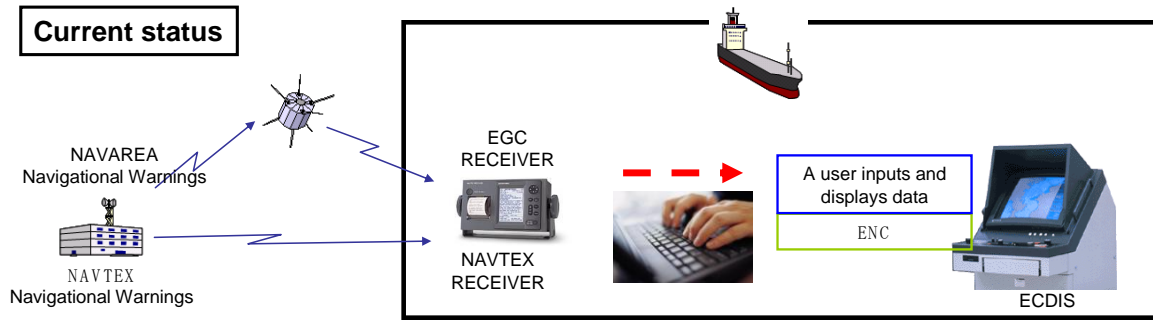
It is necessary to solve three problems to display the navigational warnings in ECDIS.

- ◆ The format of navigational warnings
- ◆ The method to send data from the receiver to ECDIS
- ◆ The information management to display the navigational warnings

JCG
Japan Hydrographic and Oceanographic Department

Proposal for overlaying navigational warnings in ECDIS

Current status



Problems

