

**MSI Self Assessment - NAVAREA XI - CPRNW 8-3-2 (NAVAREA XI)**  
**Submitted by: JAPAN**

1. **Action Required :** None, submitted for information only.

2. **Background :**

- .1 Provides emergency notification information to ensure the safety navigation at oceans through the Enhanced Group Call System (EGC) using INMARSAT Satellite ( Pacific Ocean and Indian Ocean ).
- .2 Broadcasts 3times per day : 0005Z, 0805Z and 1205Z

3. **Comments :**

	2003	2004	2005
NAVAREA XI	653	600	620

- .1 The type of NAVAREA Warning issued in 2005 is as follows.  
Gunnery and bombing accounts for about 30 percent(183), and warnings about piracy and armed robbery accounts \*for about 8 percent (49).

\* : The information offered by IMB Piracy Reporting Center.

4. **NAVTEX Coverage :**

- .1 27 NAVTEX stations are operating within this area.  
See Attachment 1.

5. **Operational Issues :**

- .1 NAVAREA Navigational Warnings Services  
We have performed program development of indispensability to change for an Internet E-mail from a private line and have shifted for the System operation using the Internet E-mail about means to transmit an NAVAREA warning messages to a land earth station (KDDI Yamaguchi Satellite Earth Station) in July 2006.  
We carry out operative management and operate the system stably .  
(See Attachment 2)
- .2 NAVTEX Navigational Warnings Services
  - .1 Democratic People's Republic of Korea (DPRK) performed application (two new stations ; Pyongyang and Hamhung) of International NAVTEX services establishment addressed to an IMO NAVTEX Co-ordinating Panel on 22 March 2006, and would like to co-ordinate indispensability again in the future on 28 June

2006, and an E-mail of address confirmation reached an NAVAREA XI Co-ordinator.

We informed DPRK of the contact address of NAVAREA XI on 8 August 2006 and are going to perform necessary co-ordination as an NAVAREA Co-ordinator in future. (See Attachment 3)

- .2 Vietnam and Philippines are planning to establish NAVTEX stations.

At present, Coastal Warning are promulgated through non-NAVTEX in Philippines.

**6. Capacity Building :**

Recently, we have come across the cases that national co-ordinator within the NAVAREA XI area fail to notify, NAVAREA XI Co-ordinator of the information of COASTAL WARNINGS that should be issued also by NAVAREA WARNINGS.

In order to ensure safe navigation of ocean-going mariners within NAVAREA XI area, NAVAREA XI Co-ordinator published a Circular Letter on the subject in May 2006 for national Co-ordinator within NAVAREA XI area to properly implement "IHO/IMO World-Wide Navigational Warnings Service Guidance Document (IMO Resolution A.706(17))" and " Operation Manual of NAVAREA XI Warnings " agreed in October 2000 at "Meeting on World-Wide Navigational Warning in Eastern Asia" and distributed in February 2002 to each nation in the area.

7. **Other Activities :** Nothing to report.

8. **NAVAREA Contact Info:** (include complete address with website, if any)

<http://www1.kaiho.mlit.go.jp/TUHO/nmj.html>

9. **NAVAREA Coordinator Contact Info :**

**JAPAN ( NAVAREA XI )**

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10. **Recommendations :** the commission is invited to note this report.

NAVTEX Stations within NAVAREA XI Area



Books referenced to "Admiralty list of Radio Signals Volume 5 NP 285 2006/07 "  
Global Maritime Distress and Safety System (GMDSS) 276p  
Published by The United Kingdom Hydrographic Office

## **Procedure of sending an Internet mail program for Broadcasting EGC SafetyNET messages ( NAVAREA warnings )**

### **1 . Overview of the System**

NAVAREA XI Co-ordinator have developed "INMARSAT EGC SafetyNET Control System" in order to draft EGC SafetyNET messages and transmit messages in a land earth station (KDDI Yamaguchi Satellite Earth Station, Yamaguchi-city, Yamaguchi Prefecture, JAPAN).

This system are operated by Client/Server Network and are set up two server computers (Sun Solaris 9) and two client computers (OS: Windows XP Professional).

Each server has some network interfaces. When it transmit a EGC SafetyNET message to the earth station (KDDI Yamaguchi satellite Earth station), it is connected to a network of IP-VPN ( Internet Protocol – Virtual Private Network).

In addition, a server has a function of database and a program of "Sendmail" .

A client program of a client computer sends an EGC SafetyNET message to Oracle (relational data base) of a server machine in accordance with a protocol of SQL\*Net and performs registration of data, update and search.

### **2 . Send an Internet mail for broadcasting EGC SafetyNET message**

An EGC SafetyNET message (an NAVAREA warning ) is broadcasted three times per day (0005Z, 0805Z and 1205Z).

It is transmitted at any time when we have to broadcast a message immediately.

#### **.1 Format of Internet mail**

.1 Network : IP-VPN (Internet Protocol – Virtual Private Network)

.2 Mail Account

Sender : NAVAREA XI Co-ordinator

Sender's mail account : xxx@xxx.xxx.xxx

An earth station's mail account : xxx@xxx.xxx.xxx

Format : Text

.2 Sample of an EGC SafetyNET message

NAVAREA XI WARNING  
NAVAREA XI 0330.  
NORTH PACIFIC, NANPO SHOTO.  
GUNNERY. 2300Z TO 0900Z COMMENCING DAILY  
31 JUL TO 30 AUG.  
AREA BOUNDED BY  
27-55-15N 144-57-48E  
28-15-15N 146-29-47E  
25-25-16N 147-37-47E  
25-00-16N 145-35-48E.  
CANCEL THIS MSG 311000Z AUG.

.3 Example of sending to the land earth station ( KDDI Yamaguchi Satellite Earth Station)

Input the items which are necessary on a program screen, and click a transmitting of button, and it is transmitted a message with a format of an E-mail to the earth station (KDDI Yamaguchi Satellite Earth Station).

**Broadcasting Menu for NAVAREA XI Navigational Warnings**

Please input the NAVAREA XI Number .

Number : 06-0330 OK

Check registered broadcast contents

**Contents**

Select of Inmarsat satellite Pacific ocean

Broadcast schedule 17:05

Initial broadcast date/time 271700 JULY 2006

Broadcast limit date/time 311700 AUG 2006

Immediately Broadcast None

**Message**

NAVAREA XI WARNING  
 NAVAREA XI 0330  
 NORTH PACIFIC, NANPO SHOTO.  
 GUNNERY. 2300Z TO 0900Z COMMENCING DAILY  
 31 JUL TO 30 AUG.  
 AREA BOUNDED BY  
 27-55-15N 144-57-48E  
 28-15-15N 146-29-47E  
 25-25-16N 147-37-47E  
 25-00-16N 145-35-48E  
 CANCEL THIS MSG 311000Z AUG.

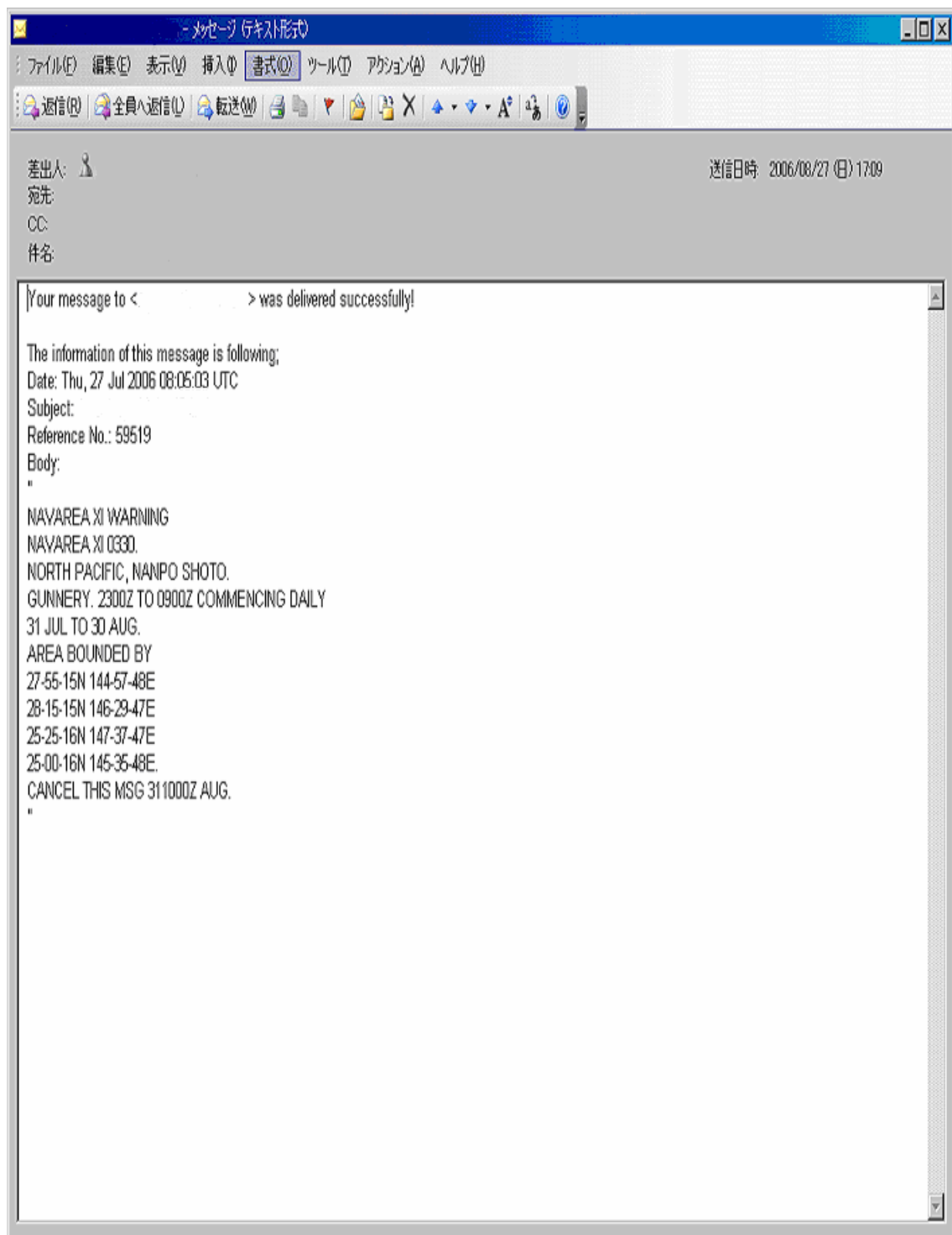
**Cancellation**

Number Pacific ocean Indian ocean OK

Transmitting Close

.4 Sample of an internet mail sent successfully from the land earth station ( KDDI Yamaguchi

Satellite Earth Station ) to NAVAREA XI Co-ordinator



Period.



Transmitting range (200NM) of NAVTEX service equipments  
in Democratic People's Republic of Korea

Attachment 3

