

## **USE OF EMAIL AS SUPPORT COMMUNICATION SYSTEM FOR REDUCTION IN COMMUNICATION LOAD ON PRIME COSPAS-SARSAT NETWORK**

### **1. ACTION REQUIRED**

The Task Group is invited to review the e-mail statistics collected recently by INMCC in real operational scenario.

### **2. BACKGROUND**

AUMCC supported transmission of email messages (parallel to AFTN) to INMCC from 27 January 2000 to collect current e-mail statistics for presentation to TG-2 in support of this paper. The data was considered until 24 February 2000.

### **3. COMMENTS**

Most the messages are delivered within 15 minutes (87%), remaining 13% within 60 minutes. No message was lost. E-mail combined with sequential message checking and resend request would provide one of the efficient mode for data communication. The statistical details are given in Annex-1 and Figure 1.

### **4. RECOMMENDATIONS**

The Task Group may consider inclusion of e-mail as support communication system for exchange of SIT messages between MCCs. The e-mail system can be configured in such a way that delays and loss of messages may be taken care by the prime communication systems.

page left blank

**ANNEX-1****STATISTICAL ANALYSIS OF EMAIL MESSAGES**

**PERIOD: 27 JANUARY 2000 TO 24 FEBRUARY 2000.**

TOTAL NUMBER OF MESSAGES TRANSMITTED BY AUMCC 406

TOTAL NUMBER OF MESSAGES RECEIVED SUCCESSFULLY AT INMCC 406

THE MAXIMUM DELIVERY TIME 409 Minutes (ONLY ONE MESSAGE-ELSE  
54 MINUTES)

THE MINIMUM DELIVERY TIME 1 Minute

THE AVERAGE DELIVERY TIME 8 Minutes (5 minutes if 409 is  
ignored)

NUMBER OF MESSAGES ARRIVED IN THE INTERVAL 0-5(min) :208 (50%)

NUMBER OF MESSAGES ARRIVED IN THE INTERVAL 5-10(min) :113 (27%)

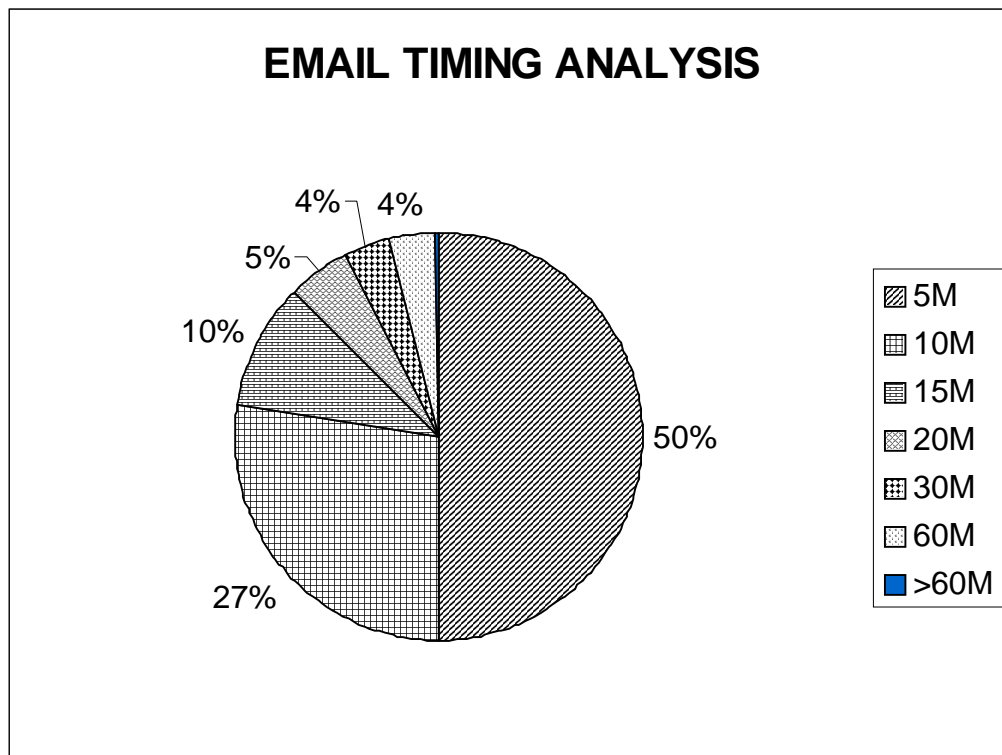
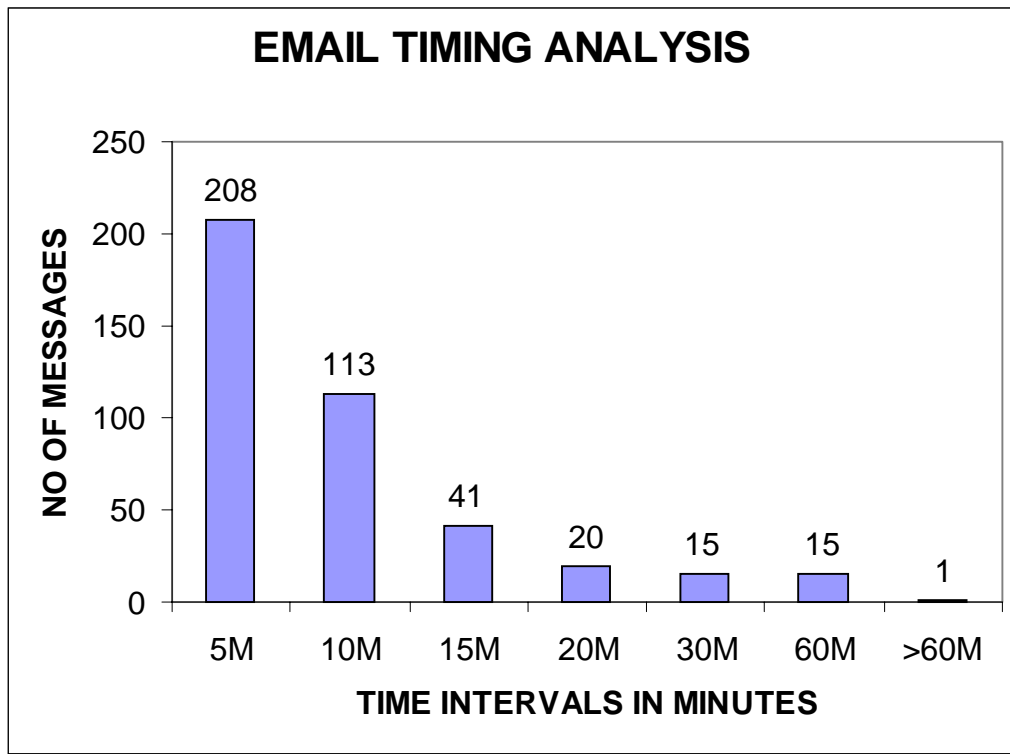
NUMBER OF MESSAGES ARRIVED IN THE INTERVAL 10-15(min) 41 (10%)

NUMBER OF MESSAGES ARRIVED IN THE INTERVAL 15-20(min) 20 (5%)

NUMBER OF MESSAGES ARRIVED IN THE INTERVAL 20-30(min) 15 (4%)

NUMBER OF MESSAGES ARRIVED IN THE INTERVAL 30-60(min) 15 (4%)

NUMBER OF MESSAGES WHICH HAS ARRIVED AFTER 60(min) 1 (0.25%)



**FIG. 1: E-MAIL TIMING STATISTICS**