

## **AIS Aids to Navigation**

Submitted by NAVAREA X

### **SUMMARY**

Executive Summary: This paper proposes navigational warning text on AIS Aids to Navigation for inclusion in the Joint MSI Manual.

Action to be taken: Paragraph 7.

Related documents: Joint IMO/IMO/WMO Manual on Maritime Safety Information

### **Background**

1. The Australian Maritime Safety Authority (AMSA) is currently in the process of evaluating the use of various Automatic Identification System (AIS) Aids to Navigation (AtoN) in the Great Barrier Reef and Torres Strait. Australia has developed a local instruction to be used when promulgating MSI and that experience is passed on for consideration and incorporation in the Joint MSI Manual.

### **AIS Aids to Navigation**

2. There are currently three categories of AIS AtoN:

**Real AIS Aid to Navigation** – A conventional AtoN fitted with an AIS device.

**Synthetic AIS Aid to Navigation** – A conventional AtoN exists but the AIS message is generated from an AIS station located remotely.

**Virtual AIS Aid to Navigation** – The conventional AtoN does not physically exist and the AIS message is generated from an AIS station located remotely.

### **Warnings Text**

3. The Joint MSI Manual does not have any examples for wording relating to AIS AtoN so the following sample text is suggested for the various types:

For Real & Synthetic AIS AtoN: AIS AID TO NAVIGATION (DESCRIPTION) MMSI (995031XXX) ESTABLISHED AT (NAME OF LOCATION) (POSITION)

For Virtual AIS AtoN: VIRTUAL AIS AID TO NAVIGATION (DESCRIPTION) MMSI (995036XXX) ESTABLISHED AT (NAME OF LOCATION) (POSITION)

## **Examples**

4. The following examples are suggested:

For Real AIS AtoN: AIS AID TO NAVIGATION STARBOARD HAND MARK MMSI 995031022 ESTABLISHED AT HERALD PATCHES BUOY 10-30.16S 142-21.50E

For Synthetic AIS AtoN: AIS AID TO NAVIGATION STARBOARD HAND MARK MMSI 995031022 ESTABLISHED AT HERALD PATCHES BUOY 10-30.16S 142-21.50E

For Virtual AIS AtoN: VIRTUAL AIS AID TO NAVIGATION STARBOARD HAND MARK MMSI 995036022 ESTABLISHED AT HERALD PATCHES BUOY 10-30.16S 142-21.50E

Note: The only difference in the above three examples is the addition of the word “virtual” when a navigation warning for a Virtual AIS AtoN is issued.

## **Malfunction**

5. In the event of a malfunction with an AIS AtoN use the expression “INOPERATIVE” when issuing the navigation warning.

## **Recommendation**

6. It is recommended that the next revision of the Joint IMO/IHO/WMO Manual on Maritime Safety Information include the proposed amendments in Chapter 7 Paragraph 12.

## **Action Requested of the Sub-Committee**

7. The Sub-Committee is invited to consider the recommendation at paragraph 6.