

RESOLUTION 359 (WRC – 12)

Submitted by IHB

**SUMMARY**

Executive Summary: This document provides details of the consideration of regulatory provisions for modernization of the GMDSS and studies related to e-navigation.

Action to be taken: Paragraph 2.

Related documents: None

1. See attached document.
2. The Sub-Committee is invited to note the information provided and take action as appropriate.

ADD

## RESOLUTION 359 (WRC-12)

**Consideration of regulatory provisions for modernization of the  
Global Maritime Distress and Safety System and  
studies related to e-navigation**

The World Radiocommunication Conference (Geneva, 2012),

*considering*

- a)* that there is a continuing need in the Global Maritime Distress and Safety System (GMDSS), on a global basis, for improved communications to enhance maritime capabilities;
- b)* that the International Maritime Organization (IMO) has initiated work plans for GMDSS modernization;
- c)* that the Automatic Identification System (AIS) offers potential enhancements to VHF maritime safety communications;
- d)* that advanced maritime MF/HF/VHF data systems and satellite communication systems may be used to deliver Maritime Safety Information (MSI) and other GMDSS communications;
- e)* that additional global and regional GMDSS satellite providers may be considered by IMO;
- f)* that IMO is developing a strategy and implementation plan for e-navigation, defined as the harmonized collection, integration, exchange, presentation and analysis of marine information on board and ashore by electronic means to enhance berth-to-berth navigation and related services for safety and security at sea and protection of the marine environment;
- g)* that GMDSS modernization may be influenced by the development of e-navigation,

*noting*

that WRC-12:

- a)* has reviewed Appendix 17 and Appendix 18 to improve efficiency and introduce bands for new digital technology;
- b)* has reviewed the regulatory provisions and spectrum allocations for use by maritime safety systems for ships and ports,

*recognizing*

- a)* that advanced maritime communication systems may support the implementation of GMDSS modernization and e-navigation;
- b)* that IMO efforts to implement GMDSS modernization and e-navigation may require a review of the Radio Regulations to accommodate advanced maritime communication systems;

c) that due to the importance of these radio links in ensuring the safe operation of shipping and commerce and security at sea, they must be resilient to interference,

*resolves to invite WRC-18*

1 to consider possible regulatory actions, including spectrum allocations based on the ITU-R studies, to support GMDSS modernization;

2 to consider possible regulatory actions, including spectrum allocations based on the ITU-R studies, for maritime mobile service supporting e-navigation,

*invites ITU-R*

to conduct studies, as a matter of urgency, taking into consideration the activities of IMO, in order to determine spectrum requirements to support GMDSS modernization, the implementation of e-navigation and propose possible regulatory actions,

*invites*

all members of the Radiocommunication Sector, IMO, the International Association of Marine Aids to Navigation and Lighthouse Authorities (IALA), the International Electrotechnical Commission (IEC), the International Hydrographic Organization (IHO), the International Organization for Standardization (ISO) and the World Meteorological Organization (WMO) to contribute to these studies,

*instructs the Secretary-General*

to bring this Resolution to the attention of IMO and other international and regional organizations concerned.