



# IALA RECOMMENDATION

R1011

## THE PERFORMANCE AND MONITORING OF eLORAN SERVICES IN THE FREQUENCY BAND 90 – 110 KHZ

**Edition 1.0**

**June 2017**



# DOCUMENT HISTORY

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Date	Details	Approval
16 June 2017	1 <sup>st</sup> Edition	IALA Council session 64



# THE IALA COUNCIL

## RECALLING:

- 1 The function of IALA with respect to Safety of Navigation, the efficiency of maritime transport and the protection of the environment.
- 2 Article 8 of the IALA Constitution regarding the authority, duties and functions of the Council.

## RECOGNISING:

- 1 The need to ensure that eLoran services in the frequency band 90 kHz – 110 kHz are operated in accordance with certain minimum standards that take into account relevant ITU-R Recommendations and IMO Resolutions.
- 2 The minimum standards should include the signal format, reference datum, availability, continuity, integrity, accuracy, signal monitoring, range and coverage, status reporting, validation, and the publication of information about the system.

## NOTING:

- 1 IMO resolutions A.915(22) on Maritime Policy for the Future Global Navigation Satellite System (GNSS), and A.1046 (27) on World Wide Radionavigation System.
- 2 ITU-R Recommendation M.589-3, Technical characteristics of methods of data transmission and interference protection for radionavigation services in the frequency bands between 70 and 130 kHz

**CONSIDERING** the proposals of the IALA e-Navigation Committee,

**RECOMMENDS** National members and other appropriate Authorities providing, or intending to provide, eLoran services in the frequency band 90 – 110 kHz adhere to the following principles.

- 1 Provide integrity information for eLoran.
- 2 Provide the service with a level of redundancy so as to achieve the performance requirements of IMO A.1046 (27).
- 3 Provide means of verifying the performance of the service, in terms of showing how the system accuracy, integrity, availability and continuity meet the requirements as set out in IMO A.1046 (27).
- 4 Provide mariners with information about the service. This should include:
  - a description of the service.
  - b service performance.
  - c service disruptions.
  - d geographical coverage.
- 5 Adopt the design and implementation principles set out in the relevant IALA Guideline(s).



**REQUESTS** the e-Navigation Committee or such other Committee as the Council may direct to keep this Recommendation under review and to propose amendments as necessary.