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| IALA Recommendation |

Document reference

maritime autonomous surface ships

Edition 1.0

Document date

Revisions to this IALA Document are to be noted in the table prior to the issue of a revised document.

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| Date | Page / Section Revised | Requirement for Revision |
| Month Year approved |  |  |
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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.
3. The provisions of IALA S1060 on Digital Communications.

**RECOGNISING**:

1. That IALA fosters the safe, economic and efficient movement of vessels through improvement and harmonization of Marine Aids to Navigation, including communications exchange, obligations for regulatory compliance, risk management and the provision of appropriate AtoN for the mix of vessel traffic.
2. The International Maritime Organization activity on the review of regulatory aspects related to the introduction of Maritime Autonomous Surface Ships (MASS).
3. The ongoing development of technology to implement, support and monitor MASS.

**CONSIDERING** the proposals of the [to be confirmed] Committee

**ADOPTS** the Recommendation on MASS, as described below and as amplified in IALA Guideline 1xxx],

**INVITES** Members and marine aids to navigation authorities worldwide to implement the provisions of the Recommendation,

**RECOMMENDS** National members and other appropriate Authorities providing marine aids to navigation services comply with this recommendation during trials, testing and implementation of AtoN, communications and monitoring systems to support MASS.

**REQUESTS** the IALA ENAV Committee or such other committee as the Council may direct to keep the Recommendation under review and to propose amendments as necessary.

**RECOMMENDATIONS ON MASS**

* 1. Reports on any trials or testing of systems to support MASS are highlighted to IALA and reported using the format presented in IALA Guideline 1107 - PLANNING AND REPORTING OF E-NAVIGATION TESTBEDS
  2. The levels of autonomy reflect international best practice on autonomous systems, as presented in IALA Guideline 1xxx
  3. There is a need to recognise the ongoing role of shore systems, including:
     1. Communication requirements
     2. The provision of AtoN, including visual, radio, audible and virtual AtoNs
     3. The role of VTS reflecting international best practice.
     4. Resilience of positioning