

Use latest template or Rev 1 ?

TOOLS TO AID RISK ASSESSMENT

1 At the request of IALA, the Maritime Safety Committee, at its one hundred and seventh session (xx to yy May 2023), with a view to enhancing the safety and efficiency of navigation, approved the circulation of details (at the Annex) relating to IALA's suite of risk assessment tools.

2 These tools can assist Member States assess the degree of maritime risk, including probabilities of collisions and groundings, in their waters.

3 Member Governments are invited to bring the information in the Annex to the attention of all concerned.

4 This circular revokes SN.1/Circ. 296

ANNEX

1 Chapter V, regulation 13 of the International Convention for the Safety of Life at Sea 1974, as amended (SOLAS 1974), states that Contracting Governments undertake to provide such aids to navigation as the volume of traffic justifies and the degree of risk requires. Similarly, Chapter V, regulation 12 states that Contracting Governments undertake to arrange for the establishment of Vessel Traffic Services (VTS) where, in their opinion, the volume of traffic or the degree of risk justifies such services.

2 Risk assessments are useful, systematic processes to identify, analyse and develop mitigation measures. IALA has a suite of tools, collectively known as the IALA Risk Management Toolbox. It includes both qualitative and quantitative tools and simulation guidance that the maritime community can use to objectively assess the degree of risk.

3 3 The tools are:

- a. The Ports and Waterways Safety Assessment (PAWSA MK II) – a method that identifies major waterway safety hazards, estimates risk levels, evaluates potential mitigation measures and sets the stage for implementation of selected measures to reduce risk.
- b. IALA Waterway Risk Assessment Programme (IWRAP) – a standardized, quantitative method to evaluate the probability of collisions and groundings in a given waterway, using AIS data and a Windows-based software program.
- c. Simplified IALA Risk Assessment Method (SIRA) - a simplified qualitative method to assess the volume of traffic and degree of risk and identify potential risk mitigation options to reduce the risks to acceptable levels.
- d. Guidance on navigational simulation as a tool for waterway design and Marine Aids to Navigation planning.

4 The assessments generated by these tools can be used to support a variety of initiatives, including proposals to establish or amend ships' routing systems and ships' reporting systems.

5 These tools are described in the latest editions of the following IALA standards, recommendations and guidelines:

- Standard 1010 AtoN Planning and Service Requirement
- Recommendation R1002 Risk Management for Marine Aids to Navigation
- G1018 Risk Management
- G1123 The Use of IALA Waterway Risk Assessment Programme (IWRAP)
- G1124 The Use of Ports and Waterways Safety Assessment (PAWSA) MkII
- G1138 The Use of the Simplified IALA Risk Assessment Method (SIRA)
- G1058 Use of Simulation as a Tool for Waterway Design and AtoN Planning

6 IALA publications are available free of charge on the IALA website – www.iala-aism.org.

7 Member States responsible for maritime safety are encouraged to use the tools described in this circular.
