Liaison Note to IMO Correspondence Group on e-Navigation

List of relevant IALA publications to be considered in the development of e-Navigation

# Introduction

IALA is an international technical association, which aims to foster the safe and economic movement of vessels. It brings together aids to navigation authorities and other practitioners from around the world in an effort to harmonise and improve aids to navigation globally.

IALA has been invited by IMO to contribute to the development of e-Navigation concept.

IALA produces guidance by way of Recommendations, Guidelines and Manuals for its membership. IMO SOLAS Chapter V Regulation 13 (Establishment and operation of aids to navigation) states that contracting governments ‘undertake to take into account’ IALA guidelines and recommendations.

IALA has identified the latest publications listed below, as being relevant for the development of e-Navigation.

All IALA recommendations and guidelines are available for free download at [www.iala-aism.org](http://www.iala-aism.org).

# Recommendations

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| R-101 | On maritime radar beacons (racons) |
| V-103 | On standards for training and certification of VTS personnel |
| V-103/1 | Model Course - VTS operators basic training |
| V-103/2 | Model Course - VTS supervisors - Advancement training |
| V-103/3 | Model Course - VTS on the job training (VTS operator and VTS supervisor) |
| V-103/4 | Model Course - VTS on the job training instructor |
| E-111 | For port traffic signals |
| O-113 | For the marking of fixed bridges over navigable waters |
| R-115 | On the provision of maritime radionavigation services in the frequency band 283.5-315 kHz in Region 1 and 285-325 kHz in Region 2 and 3 |
| O-118 | On the recording of aids to navigation positions |
| V-119 | For the implementation of Vessel Traffic Services |
| V-120 | On Vessel Traffic Services in inland water |
| R-121 | For the performance and monitoring of a DGNSS Service in the band 283.5 - 325 kHz |
| A-123 | On the provision of shore based Automatic Identification Systems (AIS) |
| A-124 | On Automatic Identification System (AIS) shore station and networking aspects relating to the AIS Service |
| V-125 | On the use and presentation of symbology at a VTS centre (including AIS) |
| A-126 | On the use of Automatic Identification Systems (AIS) in Marine Aids to Navigation |
| V-127 | On operating procedures for Vessel Traffic Services |
| V-128 | On operational and technical performance requirements for VTS equipment |
| R-129 | On GNSS vulnerability and mitigation measures |
| O-130 | On categorisation and availability objectives for short range aids to navigation |
| O-134 | On the IALA risk management tool for ports and restricted waterways 12/2009 |
| R-135 | On the future of DGNSS |
| O-138 | Use of GIS and Simulation by Aids to Navigation Authorities 12/2007 |
| O-139 | On the Marking of Man-Made Offshore Structures |
| e-NAV140 | On The e-Navigation Architecture - the initial Shore-based Perspective \* |
| E-142 | On Maritime Data Sharing IALA-NET |

*\* The shore based perspective continues to be further developed.*

# Guidelines

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| 1008 | On remote monitoring and control of aids to navigation |
| 1014 | On accreditation of VTS training courses |
| 1016 | On bilateral agreements and inter-agency memorandums of understanding on the provision of DGNSS services in the frequency band 283.5 – 325 kHz |
| 1018 | On Risk Management |
| 1026 | On AIS as a VTS tool |
| 1027 | On designing and implementing simulation in VTS training at Training Institutes / VTS Centres |
| 1028\*\* | On Universal Automatic Identification (AIS) – Volume 1, Part 1 - Operational Issues |
| 1029\*\* | On the Universal Automatic Identification System (AIS) – Volume1 Part 2 – Technical Issues |
| 1032 | On the aspects of Training of VTS Personnel relevant to the introduction of the Automatic Identification System |
| 1033 | On the provision of aids to navigation for different classes of  vessels, including high speed craft |
| 1035 | Availability and Reliability of Aids to Navigation |
| 1045 | On Staffing levels for VTS Personnel |
| 1050 | On the Management and Monitoring of AIS Information |
| 1053 | On the Submission of a DGNSS Service for Recognition as a component of the IMO WWRNS |
| 1056 | On The Establishment of VTS Radar Services |
| 1057 | Use of Geographical Information Systems by Aids to Navigation Authorities |
| 1058 | Use of Simulation as a Tool for Waterway Design and Aids to  Navigation Planning |
| 1059 | On the Comparison of Different Types of AIS Stations 06/2008 |
| 1060 | On Recapitalisation of DGNSS |
| 1062 | On The establishment of AIS as an Aid to Navigation |
| 1068 | Provision of a Navigational Assistance Service by a Vessel Traffic Service |
| 1070 | VTS role in managing Restricted or Limited Access Areas |
| 1071 | the Establishment of a Vessel Traffic Service beyond territorial seas \*\*\* |
| 1072 | On AtoN Information Exchange and Presentation |
| 1081 | On Virtual AtoN 03/2010 |

*\*\* This document may be superseded in December 2010*

*\*\*\* Subject to further discussion by IMO*

# Manuals

1. IALA VTS Manual 2008
2. IALA NAVGUIDE (March 2010 Edition)

# Other publications

The following IALA documents must also be taken into account:

1. IALA Maritime Buoyage System (MBS)
2. IALA World-Wide Radionavigation Plan
3. IALA Maritime Radio Communication Plan
4. World VTS Guide
5. Guide for VTS authorities on fatigue awareness and human reliability.

# Action requested

The IMO Correspondence Group is requested to note the information provided.