**Recommendations Plan – Working paper**

2017-01-13, revised 2017-02-08 , from PAP33-10.2

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| Indicates **NEW** or amended Recommendation is required | Indicates action needed, or a new or amended Guideline, etc. |
| Some items are from earlier PAP work, some are new from DSG. | |

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| **Standard** | **Topic area** | **Reference** |  | **Recommendation** | **Comment** |
| **IALA1010**  **AtoN Planning and Service Requirements** | **Maritime Buoyage System** | IALA1010-R1001  **NEW 2017** | **Normative** | **The Maritime Buoyage System**   * This Recommendation will   + note the original but superseded International Agreement   + note the subsequent amendment of the original scheme to include additional marks   + and note the universal acceptance of the MBS worldwide   + refer to a Guideline for details of the MBS | Guideline to consist of the present IALA MBS booklet as an interim measure.  Then a new Guideline in the the new corporate style and its distibution in the usual way via the website.  Today we have no Recommendation or Guideline for the MBS, only a booklet which has unclear status in our document structure. |
|  | **Obligations, International & national criteria** | IALA1010-R1002  **NEW** | **Normative** | **The need for a national competent authority for marine aids to navigation and vessel traffic services**   * Recommends one or two authorities depending on national preferences or arrangements | New Guideline(s) describing purpose, management, legislation needs, regulation needs, perhaps with examples of legislation and regulation clauses to assist understanding.  WWA teaches its students in this area but we have no Recommendation or Guideline. |
|  |  | IALA1010-R1003  **NEW** | **Normative** | **The international obligations of competent authorities**   * IMO SOLAS, UNCLOS, EU Directives, etc. | New supporting Guideline detailing references and obligations.  WWA teaches in this area but we have no Recommendation or Guideline. |
|  |  | ~~IALA1010-R0105~~  ~~E-105~~ |  | ~~The Need to Follow National and International Standards~~ | Withdrawn by Council 63 |
|  | **Levels of service objectives, Availability and Categories** | IALA1010-R0130  O-130 | **Normative** | Categorisation and Availability Objectives for Short Range Aids to Navigation |  |
|  | **Risk Management ~~Toolbox~~** | IALA1010-R1004  **NEW** | **Normative** | **Risk management for aids to navigation and related services** | Guidelines on:   1. IWRAP 2. PAWSA 3. Simple qualitative tool 4. Prepare for future IALA-approved risk analysis software that directly accesses and uses our stored IALANET AIS data |
|  |  | IALA1010-R0142  E-142 | Informative | Maritime Data Sharing 'IALA-NET'   * New title **“Maritime data sharing for risk assessment and analysis”** | Revise this Recommendation to note the storage and use of historical [AIS and other] data for risk analysis.  Guideline(s) on:   * How to connect to IALA net * Data format(s)   Correct |
|  |  | ~~O-134~~ |  | ~~The IALA Risk Management Tool for Ports and Restricted Waterways~~ | Withdraw this and create R1004 and its Guidelines |
|  |  | IALA1010-R0138  O-138 | ~~Informative~~  **Normative** | The Use of GIS and Simulation by Aids to Navigation Authorities | The informative content should become a normative recommendation |
|  | **Quality management, Record keeping** | IALA1010-R0132  O-132 | **Normative** | Quality Management for Aids to Navigation Authorities |  |
|  |  | IALA1010-R0118  O-118 | **Normative** | The Recording of Aids to Navigation Positions |  |
|  | **Offshore signals, Bridge signals, Traffic signals** | IALA1010-R0111  (E-111) | **Normative** | Port Traffic Signals | ? Correct |
|  |  | IALA1010-R0113  O-113 | **Normative** | The Marking of Fixed Bridges and Other Structures over Navigable Waters |  |
|  |  | IALA1010-R0139  O-139 | **Normative** | The Marking of Man-Made Offshore Structures |  |
|  | **AIS, AIS AtoN, Virtual AtoN** | IALA1010-R0143  O-143 | Informative | Provision of Virtual Aids to Navigation | Does this need updating or revision? |

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| **Standard** | **Topic area** | **Reference** |  | **Recommendation** | **Comment** |
| **IALA1020**  **AtoN Design and Delivery** | **Visual AtoN** | IALA1020-R0106  (E-106) | **Normative** | The Use of Retroreflecting Material On Aids To Navigation Marks Within The IALA Maritime Buoyage System | Correct |
|  |  | IALA1020-R0108  (E-108) | **Normative** | The Surface Colours used as Visual Signal on Aids to Navigation | Correct |
|  |  | IALA1020-R0110  (E-110) | **Normative** | The Rhythmic Characters of Lights on Aids to Navigation | Correct |
|  |  | IALA1020-R0112  (E-112) | **Normative** | On Leading Lights | Correct, to be updated after 2018. Guideline 1023 to be reviewed to support this |
|  |  | IALA1020-R0200  (E-200-1) | **Normative** | Marine Signal Lights - Colours | Correct |
|  |  | IALA1020-R0104  O-104 | **Normative** | Off Station Signals for Major Floating Aids |  |
|  | **Range and Performance** | IALA1020-R0200  E-200-0 |  | Marine Signal Lights - Overview | **TBC To review the need for this, it may be converted into a guideline/informative recommendation** |
|  |  | IALA1020-R0200-2  (E-200-2) | **Normative** | Marine Signal Lights Part 2 - Calculation, Definition and Notation of Luminous Range | Becomes a Guideline Revised recommendation to go to Council 65. Correct |
|  |  | IALA1020-R0200-3  (E-200-3) | **Normative** | On definitions of Marine Signal Lights Performance | Becomes a Guideline Recommendation to be revised at ENG8. Correct |
|  |  | IALA1020-R0200-4  (E-200-4) | **Normative** | Marine Signal Lights - Determination and Calculation of Effective Intensity | Revised recommendation to go to Council 65. Correct |
|  |  | E-200-5 |  | Marine Signal Lights Part 5 - Estimation of the Performance of Optical Apparatus | Becomes a Guideline Correct To be reviewed after 2018 and converted to a guideline in due course |
|  | **Design, Implementation & Maintenance** | IALA1020-R0126  A-126 | Informative | Use of the AIS **Aid to Navigation** in Marine Aids to Navigation Service | * Change title to make clear that it is AIS AtoN * Consider to split into Recommendation and Guideline * Make sure it is compatible with the new VDES documents below |
| **New recommendation needed on the responsible Design & Maintenance of AtoN ?** |
|  | **Power systems** |  |  |  |  |
|  | **Floating AtoN** | IALA1020-R0107  (E-107) | Informative | Moorings for Floating Aids to Navigation | Correct |
|  | **Environment, Sustainability & Legacy** | IALA1020-R1004  **NEW 2017** | Informative | **Environmental Management in the provision on Marine Aids to Navigation** | Correct, approved at Council 64 |
|  |  | IALA1020-R1005  **NEW 2017** | Informative | **Conserving the built heritage of lighthouses and other aids to navigation**   * An informative Recommendation to recognise the need to preserve AtoN heritage and to assist members having heritage obligations * Important for 2018 Conference | * Correct |
|  | **Additional AtoN systems, including Sound signal** | IALA1020-R0109  (E-109) | Informative | The Calculation of the Range of a Sound Signal | Correct |

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| **Standard** | **Topic area** | **Reference** |  | **Recommendation** | **Comment** |
| **IALA1030**  **Radionavigation Services** | **Satellite positioning and timing** | IALA1030-R1001  **NEW** | Informative | **WAS augmentation for maritime use  (SBAS)** | EGNOS, other national WAS, and existing ENAV work to date may inform a Guideline. |
|  | **Terrestrial positioning and timing** | IALA1030-R1004  **NEW** | Informative | **Terrestrial radionavigation systems**  Can note the IMO multi-sensor receiver for SOLAS ships (NCSR/MSC) | Supporting Guidelines   1. eLoran. (Refer to an RTCM document?) 2. R-Mode operation of MF broadcasting stations 3. R-Mode use of AIS signals 4. Intelligent radar beacons (racons) 5. Guidelines for the creation or use of other emissions as the need arises, e.g Signals of Opportunity |
|  |  | ~~R-129~~ |  | GNSS Vulnerability and Mitigation Measures | * Becomes a Guideline under IALA1030-R1001 above. * Maybe some text from R-129 can inform Recommendation IALA1030-R1001 |
|  | **RACON & Radar positioning** | e-NAV-146 |  | ~~Strategy for~~ Maintaining Racon Service Capability | * Change title * Revision needed. * Becomes Guideline under IALA1030-R0101 below |
|  |  | IALA1030-R0101  R-101 | **Normative** | Marine Radar Beacons (racons) | * Check content * E-NAV-146 becomes a Guideline under this Recommendation |
|  | **Terrestrial augmentation services (DGNSS)** | IALA1030-R0115  R-115 | **Normative** | 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 |  |
|  |  | IALA1030-R0121  R-121 | **Normative** | The Performance and Monitoring of DGNSS Services in the Frequency Band 283.5 - 325 kHz |  |
|  |  | IALA1030-R0150  R-150 | Informative | DGNSS service provision upgrade and future use | * Does this need revision? * Merge with R-135? * Do we need to mention R-mode here too? |
|  |  | R-135 |  | The Future of DGNSS | * Should be guideline, do not list in standard * Is it still valid? Add R-Mode? * Withdraw this document? |
| **Standard** | **Topic area** | **Reference** |  | **Recommendation** | **Comment** |
| **IALA1040**  **Vessel Traffic Services** | **VTS implementation** | IALA1040-R0102  V-102 | Informative | The application of the 'User Pays' principle to Vessel Traffic Services |  |
|  |  | IALA1040-R0119  V-119 | **Normative** | The Implementation of Vessel Traffic Services |  |
|  |  | IALA1040-R0120  V-120 | Informative | Vessel Traffic Services in Inland Waters | * Is this still needed and used? * EU rules, USA practices? |
|  | **VTS operations** | IALA1040-R0127  V-127 | **Normative** | Operational Procedures for Vessel Traffic Services |  |
|  | **VTS data and information management** | IALA1040-R0125  V-125 | **Normative** | The use and presentation of symbology at a VTS centre |  |
|  | **VTS communications** | IALA1040-R1001  **NEW** | **Normative** | **Standard voice communications phrases for VTS operations**   * Recognise the IMO SMCP in the Recommendation | The list of VTS phrases could be an annex to the Recommendation, or a separate Guideline. |
|  |  | IALA1040-R1002  **NEW** | **Normative** | **Digital information transfer between ship and shore in VTS operations (Operational aspects)** | See IALA1070 for a separate technical Recommendation to cover message format, communications channels, etc.  Covers:   * Maritime safety information (MSPs) * Route information transfer (route exchange) * Other? |
|  | **VTS technologies** | IALA1040-R0128  V-128 | **Normative** | Operational and Technical Performance of VTS Systems |  |
|  | **Auditing and assessing of VTS** | IALA1040-R1003  **NEW** | **Normative** | **Auditing of Vessel Traffic Services** | * Audit includes, staff, procedures, equipment and sensors, records, and recording |

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| **Standard** | **Topic area** | **Reference** |  | **Recommendation** | **Comment** |
| **IALA1050**  **Training and Certification** | **Training and assessment** | IALA1050-R0141  (E-141) | **Normative** | ~~Standards for~~ Training and Certification of AtoN Personnel | Amend title  Correct. Reviewed and to go to Council 65 |
|  |  | IALA1050-R0103  V-103 | **Normative** | ~~Standards for~~ Training and Certification of VTS Personnel | Amend title |
|  | **Accreditation, Competency certification and revalidation** | IALA1050-R0149  O-149 | **Normative** | Accreditation of Training Organisations | Amend Topic area title |
|  |  | ~~IALA1050-R1001~~  **~~NEW~~** | **~~Normative~~** | ~~Certification of VTS personnel~~ | ~~Supporting Guideline~~ |
|  |  | ~~IALA1050-R1002~~  **~~NEW~~** | **~~Normative?~~** | ~~Certification of AtoN personnel~~ | ~~Supporting Guideline~~ |
|  | **~~Simulation in training~~** |  |  |  | Delete Topic area |
|  | **~~Human factors and ergonomics~~** |  |  |  | Delete Topic area |

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| **Standard** | **Topic area** | **Reference** |  | **Recommendation** | **Comment** |
| **IALA1060**  **Digital Communication Technologies** |  | IALA1060-R1001  **NEW** | **Normative** | **Communications channels for [public service] digital information services in coastal areas.**   * Single new Recommendation on (free-to-air, non-commercial) communications channels to be used by coastal authorities for digital information transfer between ship and shore in coastal areas * Absorb A-123 and A-124? | Explains/recommends our plan/vision in a single document.  Supporting Guidelines would cover   * VDES Including AIS * NAVDAT on 500KHz * Future possibility of [NAVDAT} on 300KHz * Other?   **Alternative** following is preferable  See IALA1070 below for a separate Recommendation with Guidelines for data models for these channels. |
|  |  |  | **ALTERNATIVE: -** | |  |
|  | **Wide/Medium bandwidth systems (AIS & VDES)** | IALA1060-R1002  **NEW 2017** | **Normative** | **VDES for shore infrastucture**   * Could this absorb A-123 and A-124below? | Supporting Guidelines |
|  |  | IALA1060-R0123  A-123 | **Normative** | The Provision of Shore Based Automatic Identification System (AIS) |  |
|  |  | ~~IALA1060-R0124~~  ~~A-124~~ |  | The AIS Service | ~~Supporting Guideline~~  Move recommendation content to Recommendation IALA1060-R1001 or 1002, remainder to Guideline(s) |
|  |  | ~~A-124 APPENDIX 0 to APPENDIX 19~~ |  |  | A-124 APPENDIX 0 to APPENDIX 19 become Guidelines for Recommendation IALA1060-R1001 or 1002 |
|  | **Narrow bandwidth systems (NAVDAT, MF beacons)** | IALA1060-R1003  **NEW** | **Normative** | **NAVDAT for MSI broadcast** | Supporting Guideline   * 500KHz * Other channels (MF beacons?) |
|  | **Maritime Internet of Things (Intelligent sensors, AtoN monitoring)** | IALA1060-R1005  **NEW** | Informative | **Maritime Resource Numbering** | Will apply to [Maritime Cloud] and elsewhere in the maritime environment |

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| **Standard** | **Topic area** | **Reference** |  | **Recommendation** | **Comment** |
| **IALA1070**  **Information Services** | **Harmonised maritime connectivity framework (CMDS)** | IALA1070-R0140  e-NAV-140 | Informative? | The Architecture for Shore-based Infrastructure 'fit for e-Navigation' |  |
|  |  | IALA1070-R0148  e-NAV-148 | Informative? | The need to implement regional e-Navigation solutions based on international standards | * Do we still need this document? * Could this be merged with the above? |
|  |  | IALA1060-R1004  **NEW** | Informative | **Framework for harmonised maritime connectivity** | * Placeholder for the Maritime Cloud.   Name, content, need, etc., will become clearer in late 2017 or early 2018 after the E2 workshops. |
|  | **Data models and data encoding (IVEF, S-100, S-200, ASM)** | IALA1070-R1001  **NEW** | **Normative** | **Data models for digital information services [for VTS and AtoN services] in coastal areas (Technical)** | Supporting Guidelines covering data models and their management   * S200 series * E-NAV 147 as Guideline * Application Specific Messages * Route exchange/route transfer * Maritime Service Portfolios * Time stamps for maritime data |
|  |  | ~~e-NAV-144~~ | **~~Normative~~** | ~~Harmonized implementation of Application Specific Message (ASM)~~ | Merge into IALA1070-R1001 and its Guidelines |
|  |  | ~~e-NAV-147~~ | **~~Normative~~** | Product Specification Development and Management | Merge into IALA1070-R1001 and its Guidelines |
|  |  | IALA1070-R0145  V-145 | **Normative** | The Inter-VTS Exchange Format (IVEF) Service | Split into Recommendation and Guideline |
|  | **Data exchange systems (Traffic Information)** |  |  |  |  |
|  | **~~User requirements~~** |  |  |  |  |
|  | **Terminology and symbology (IALA Dictionary)** | IALA1070-R1002  **NEW** | Informative | **Use of IALA terms and definitions in documents and publications** | Dictionary as pseudo-Guideline |