

**IALA COUNCIL**  
**4th Session**



**8 - 11 June 2026**  
**HQ, France**

## **10 – TECHNICAL ACTIVITIES**

### **10.4 – ENG**

#### 10.4.1 – ENG22 summary report

Note by the Secretariat

### **1. INTRODUCTION**

The 22nd session of the ENG Committee was held from 13 to 23 April 2026, chaired by Dr Alwyn Williams with Michel Cousquer as Vice-Chair, and Alisa Nechyporuk serving as Secretary.

The physical meeting week took place from 13 to 17 April 2026 at IALA Headquarters followed by an approval period and the virtual closing plenary on 23 April 2026. A total of 119 participants from 29 countries attended ENG22, including 26 first-time participants and 24 online attendees. The Committee considered 55 input papers and produced 31 output papers across three Working Groups.

### **2. SUMMARY OF THE WORK ITEMS**

The Committee reviewed and updated its 2025–2027 work programme, achieving major developments across three Working Groups:

#### **Working Group 1 – Visual and Physical AtoN**

- Finalised the Revised Guideline G1023 on the Design of Leading Lines, with new acquisition-region content, clarified beam-width and illuminance requirements, and revised guidance on passing lights; submitted for Council approval.
- Progressed the new draft Guideline on the Measurement of Marine Lights Performance, addressing reference-light usage, FWHM/maximum-deviation metrics, and an example test sheet.
- Substantially revised G1066 on the Design of Floating AtoN Moorings with realigned terminology, a single-solution catenary calculation including tail length and sinker height, and an upgraded Excel calculation tool with worked examples.
- Completed the new draft Guideline on the Maintenance of Floating AtoN, with photographs and worked maintenance examples; forwarded for Secretariat quality-check ahead of ENG23.
- Continued the revision of G1008 on Remote Monitoring and Control of AtoN, drawing on China MSA input.
- Advanced the joint AtoN for SIDS / LoCAN project with ARM, conveyed through liaison note (ENG22-9.2.1.1).
- Reviewed and updated WWA Modules C2001-1 to C2001-10, C2005-1 and C2006-1, with the Level 2 Technician Training Overview, submitted for Council approval.

#### **Working Group 2 – Radionavigation Services**

- Advanced draft G1180 Edition 1.1 on Resilient PNT and prepared amendments to R1017 Ed.2.0, with a Liaison Note to ARM, VTS and DTEC requesting review (ENG22-9.2.2.3).
- Progressed the draft Guideline on the Implementation of MF and VDES R-Mode systems and services, supporting parallel IMO NCSR work on the R-Mode performance standard.
- Initiated a new task on eLoran Harmonization based on the input from the Republic of Korea, France and the United Kingdom and the Edinburgh workshop, agreeing IALA could play a coordinating role subject to PAP/Council direction.
- Finalised the new Guideline on GNSS Satellite-based Precise Point Positioning (PPP) Maritime Service (ENG22-9.2.2.4), submitted for Council approval; established a new task on Terrestrial-Based PPP Maritime Service.
- Progressed Racon work, including update of R0101 to current template, the new Guideline on Use and Applications of Racons, and a Liaison Note to ARM on offshore wind-farm impacts on Racon performance (ENG22-9.2.2.2).
- Reviewed eLoran content for the S-200 PNT Product Specification and agreed a common data model for S-241 PNT Station Almanac based on input papers from China MSA and the Republic of Korea, with R-Mode station-almanac data also proposed for inclusion.
- Reported on the IMO Correspondence Group developing the SBAS DFMC and ARAIM shipborne-receiver performance standard for NCSR13; draft Recommendation on SBAS Service and a Guideline on SBAS retransmission via VDES to be progressed at ENG23.

### **Working Group 3 – Heritage and Culture**

- Finalised Revised Guideline G1063 on Partnership Agreements for Complementary Use of Lighthouse Property (ENG22-9.2.3.2), restructured with legal-disclaimer wording and submitted for Council silent approval.
- Completed task-group review of G1075 on Business Plans for Heritage Lighthouses (renamed and rescoped, with a fillable business-plan template); intersessional review for finalisation at ENG23.
- Restructured G1080 on Selection and Display of Heritage Artefacts to align with UNESCO and ICOM frameworks and applicable UN SDGs; forwarded as a working paper to ENG23.
- Updated the syllabus for the WWA L1.1 Heritage Module and submitted a Liaison Note to WWA proposing revision of the L1.1 2D Lighthouse Model Course (ENG22-9.2.3.1); progressed work on the heritage webpage, the IALA Heritage Lighthouse certification scheme and twinning.

### **3. OUTCOMES OF THE COMMITTEE**

The following draft documents have been prepared for Council approval (agenda item 10.4):

1. C04-10.4.2 (ENG22-9.2.2.4) New draft Guideline on GNSS Satellite-based Precise Point Positioning (PPP) Maritime Service.
2. C04-10.4.3 (ENG22-9.2.1.2) Revised Guideline G1023 on the Design of Leading Lines.
3. C04-10.4.4 (ENG22-9.2.3.2) Revised Guideline G1063 Partnership Agreements for Complementary Use of Lighthouse Property.
4. C04-10.4.5 (ENG22-9.2.1.3) Revised IALA Model Course – Technician Training Level 2 Overview.
5. C04-10.4.6 (ENG22-9.2.1.4) Revised Model Course C2001-1 Introduction to Aids to Navigation.
6. C04-10.4.7 (ENG22-9.2.1.5) Revised Model Course C2001-2 Introduction to Aids to Navigation – Buoyage.

7. C04-10.4.8 (ENG22-9.2.1.6) Revised Model Course C2001-3 Buoy Handling and Safe Working Practices.
8. C04-10.4.9 (ENG22-9.2.1.7) Revised Model Course C2001-4 Buoy Moorings.
9. C04-10.4.10 (ENG22-9.2.1.8) Revised Model Course C2001-5 Buoy Cleaning.
10. C04-10.4.11 (ENG22-9.2.1.9) Revised Model Course C2001-6 Introduction to Buoy Positions.
11. C04-10.4.12 (ENG22-9.2.1.10) Revised Model Course C2001-7 Maintenance of Plastic Buoys.
12. C04-10.4.13 (ENG22-9.2.1.11) Revised Model Course C2001-8 Maintenance of Steel Buoys.
13. C04-10.4.14 (ENG22-9.2.1.12) Revised Model Course C2001-9 Power Sources on Buoys.
14. C04-10.4.15 (ENG22-9.2.1.13) Revised Model Course C2001-10 Introduction to Shore Marks.
15. C04-10.4.16 (ENG22-9.2.1.14) Revised Model Course C2005-1 Surface Preparation Before Coating.
16. C04-10.4.17 (ENG22-9.2.1.15) Revised Model Course C2006-1 AtoN Service Craft and Buoy Tenders.
17. C04-12.4.2 (ENG22-9.2.2.1) Liaison Note to RTCM on the 10402.3 amendment.

#### **4. THE COUNCIL IS REQUESTED TO**

**NOTE** the information provided in this document.