

# Workshop on future radionavigation and radiocommunication systems

## WORKSHOP PROGRAMME

DAY 1 – Monday 2026 – 09 February 2026

| Time                 | Activity                                                                                  |                                                                |
|----------------------|-------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| 08:30 – 09:00        | Registration and morning tea/coffee                                                       |                                                                |
| <b>09:00 – 10:20</b> | <b>Session 1 – Welcome and introductions</b>                                              | <b>Chair – Hideki Noguchi (JSTRA)</b>                          |
| 09:00 – 09:20        | Welcome from the host                                                                     | Mike Bullock (NLB)                                             |
| 09:20 – 09:40        | Welcome from IALA                                                                         | Omar Eriksson (IALA)                                           |
| 09:40 – 10:00        | Workshop scope and purpose                                                                | Hideki Noguchi (JSTRA)                                         |
| 10:00 – 10:20        | WWA updates on Capacity building                                                          | Vincent Denamur (IALA WWA)                                     |
| 10:20 – 10:40        | Coffee Break                                                                              |                                                                |
| <b>10:40 – 12:00</b> | <b>Session 2 – Regulatory Constraints and Technical Capability</b>                        | <b>Chair – [ITU/IMO Representative]<br/>Stefan Bober (TBC)</b> |
| 10:40 – 11:00        | Overview of Maritime Spectrum Regulations and Gaps                                        |                                                                |
| 11:00 – 11:20        | Experience from VDES and AIS: Regulatory Adaptation for New Technologies                  | Hideki Noguchi (JSTRA)                                         |
| 11:20 – 11:40        | Experience from SBAS: Regulatory adaptation for marine radionavigation                    | Hideki Noguchi (JSTRA)                                         |
| <b>11:40 – 12:00</b> | <b>Session 2 Q&amp;A</b>                                                                  |                                                                |
| 12:00 – 13:00        | Lunch / Break                                                                             |                                                                |
| <b>13:00 – 13:20</b> | <b>Session 3 – Users' view on radionavigation and communication</b>                       | <b>Chair – Phillip Day (NLB)</b>                               |
| 13:20 – 13:40        | AtoN                                                                                      | Natasha McMahon (CCG) <i>(online)</i>                          |
| 13:40 – 14:00        | Digital VTS and the Future of Maritime Connectivity                                       | Olli Soininen (Fintraffic)                                     |
| 14:00 – 14:20        | Standard Navigation for GNSS Disruption: Bringing Visual Perception Back to the Forefront | Capt Aly Elsayed (AFNI)                                        |
| <b>14:20 – 14:40</b> | <b>Session 3 Q&amp;A</b>                                                                  |                                                                |
| 14:40 – 15:00        | Break                                                                                     |                                                                |
| <b>15:00 – 15:20</b> | <b>Session 4 – VHF radio navigation and communication</b>                                 | <b>Chair – Peter Douglas (NLB)</b>                             |
| 15:20 – 15:40        | VDES as a communication system                                                            | Stefan Pielmeier<br>(FLIR TransponderTech AB)                  |
| 15:40 – 16:00        | VDES R-Mode                                                                               | Ronald Raulefs (DLR)                                           |
| 16:00 – 16:20        | VHF digital radio                                                                         |                                                                |
| <b>16:20 – 16:40</b> | <b>Session 4 Q&amp;A</b>                                                                  |                                                                |
| <b>18:00 – 19:30</b> | <b>Welcome reception</b>                                                                  |                                                                |



## DAY 2 – Tuesday 2026 – 10 February 2026

| Time                 | Activity                                                                                     |                                                                                |
|----------------------|----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| <b>09:00 – 10:00</b> | <b>Session 5 – LF/MF/HF radio navigation and communication</b>                               | <b>Chair – [National Authority/Technical Expert]<br/>Gillian (TBC)</b>         |
| 09:00 – 09:15        | e-Loran                                                                                      | <b>Dr Jan Safar (TH, GRAD)</b>                                                 |
| 09:15 – 09:30        | Advancing the Korean eLoran System: Development Status and New LDC design                    | <b>Ki-yeol Seo (KRISO)</b>                                                     |
| 09:30 – 09:50        | DGNSS and MF R-Mode                                                                          | <b>Stefan Gewies (DLR)</b>                                                     |
| 09:50 – 10:10        | NAVDAT                                                                                       | <b>Pierre Mingot (Cerema)</b>                                                  |
| <b>10:10 – 10:30</b> | <b>Session 5 Q&amp;A</b>                                                                     |                                                                                |
| <b>10:30 – 10:40</b> | <b>Coffee Break</b>                                                                          |                                                                                |
| <b>10:40 – 12:00</b> | <b>Session 6 – IMT and other technology</b>                                                  | <b>Chair – Ronald Raulefs (TBC)</b>                                            |
| 10:40 – 11:00        | The potential of the IMT technology family, considering the outcome of the IMT workshop 2025 | <b>Jan-Hendrik Oltmann (WSV)</b>                                               |
| 11:00 – 11:20        | IMT 2030 (6G)                                                                                | <b>Hyounghee Koo (SyncTechno)</b>                                              |
| 11:20 – 11:40        | INS and Quantum Navigation                                                                   | <b>Dr Kevin Sheridan (TH, GRAD)</b>                                            |
| <b>11:40– 12:00</b>  | <b>Session 6 Q&amp;A</b>                                                                     |                                                                                |
| <b>12:00 – 13:00</b> | <b>Coffee Break</b>                                                                          |                                                                                |
| <b>13:00 - 14:40</b> | <b>Session 7 – Satellite (1)</b>                                                             | <b>Chair – Dennis Khoo (MPA)</b>                                               |
| 13:20 – 13:40        | Beidou Messaging Service                                                                     | <b>Sun Qian (China MSA)</b>                                                    |
| 13:40 – 14:00        | Galileo return link                                                                          | <b>Eduardo Diaz (EUSPA)</b>                                                    |
| 14:00 – 14:20        | SBAS as a radionavigation system                                                             | <b>Jose-Luis Martin (ESSP)</b>                                                 |
| <b>14:20 – 14:40</b> | <b>Session 7 Q&amp;A</b>                                                                     |                                                                                |
| <b>14:40 – 15:00</b> | <b>Lunch / Break</b>                                                                         |                                                                                |
| <b>15:00 – 15:40</b> | <b>Session 8 – Satellite (2)</b>                                                             | <b>Chair – [Satellite Industry Representative]<br/>Philip Lane, IMSO (TBC)</b> |
| 15:20 – 15:40        | Inmarsat                                                                                     | <b>John Dodd (Inmarsat)</b>                                                    |
| 15:40 – 16:00        | Iridium                                                                                      |                                                                                |
| 16:00 – 16:20        | Starlink / OneWeb / Kuiper (Status of the satellite communication systems)                   |                                                                                |
| <b>16:20 – 16:40</b> | <b>Session 8 Q&amp;A</b>                                                                     |                                                                                |
|                      |                                                                                              |                                                                                |
|                      |                                                                                              |                                                                                |

## DAY 3 – Wednesday 2026 – 11 February 2026

### Working groups

| Time                 | Activity                                                                   |                                                     |
|----------------------|----------------------------------------------------------------------------|-----------------------------------------------------|
| <b>09:00 – 17:00</b> | <b>Session 9 – Establishing working groups</b>                             |                                                     |
|                      | WG1 – MarCom                                                               | <b>Chair – Stefan Pielmeier</b>                     |
|                      | WG2 – MarNav                                                               | <b>Chair – Jeffrey van Gils /<br/>Stefan Gewies</b> |
| <b>10:20 – 10:40</b> | <b>Coffee Break</b>                                                        |                                                     |
| <b>12:00– 13:00</b>  | <b>Lunch</b>                                                               |                                                     |
| <b>15:30– 16:00</b>  | <b>Coffee Break</b>                                                        |                                                     |
| <b>16:00 – 20:00</b> | <b>Technical visit – Visit on board vessel Pole Star + Workshop Dinner</b> |                                                     |

## DAY 4 – Thursday 2026 – 12 February 2026

### Working groups



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 International Organization for Marine Aids to Navigation



| Time                 | Activity                                        |                                             |
|----------------------|-------------------------------------------------|---------------------------------------------|
| <b>09:00 – 17:00</b> | <b>Session 10 – Establishing working groups</b> |                                             |
|                      | WG1 – MarCom                                    | Chair – Stefan Pielmeier                    |
|                      | WG2 – MarNav                                    | Chair – Jeffrey van Gils /<br>Stefan Gewies |
| <b>10:20 – 10:40</b> | <b>Coffee Break</b>                             |                                             |
| <b>12:00– 13:00</b>  | <b>Lunch</b>                                    |                                             |
| <b>15:00– 15:20</b>  | <b>Coffee Break</b>                             |                                             |

#### DAY 5 – Friday 2026 – 13 February 2026

| Time                 | Activity                                 |                                             |
|----------------------|------------------------------------------|---------------------------------------------|
| <b>09:00 – 10:00</b> | <b>Session 11 – WG report</b>            | Chair – Omar Eriksson                       |
| 09:00 – 09:20        | WG 1 report                              | Chair – Stefan Pielmeier                    |
| 09:20 – 09:40        | WG 2 report                              | Chair – Jeffrey van Gils /<br>Stefan Gewies |
| <b>10:00 – 10:20</b> | <b>Session 11 Q&amp;A/Discussion</b>     |                                             |
| <b>10:20 – 11:00</b> | <b>Coffee Break</b>                      |                                             |
| <b>11:00 – 11:40</b> | <b>Session 12 – Workshop Conclusions</b> | Chair – Hideki Noguchi                      |
| 11:00 – 11:20        | Summary of Workshop Findings             | Hideki Noguchi (JSTRA)                      |
| 11:20 – 11:30        | Remarks from the host                    | Mike Bullock (NLB)                          |
| 11:30 – 11:40        | Remarks from IALA                        | Omar Eriksson (IALA)                        |