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<b>Document title</b>	Information on IALA Workshop on R-Mode 2019
<b>Code</b>	6-1
<b>Category</b>	INF
<b>Agenda Item</b>	6 – Cooperation with other organizations
<b>Submission date</b>	15.05.2019
<b>Submitted by</b>	Secretariat
<b>Reference</b>	

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## Background

Attached to this document is a flyer on IALA Workshop on Ranging Mode (R-Mode), including VHF (AIS) implementation, to be held at IALA Headquarters, Saint-Germain-en-Laye, France, on 9-12 September 2019.

The working language will be English. The workshop is supported by the project R-Mode Baltic which is co-financed by the European Union through the European Regional Development Fund within the Interreg Baltic Sea Region Programme.

This IALA workshop aims to achieve the following:

- Give participants an overview about the recent status of world-wide R-Mode activities and latest results;
- Define R-Mode requirements for implementation with VDES;
- Develop a roadmap for the standardisation and implementation of R-Mode on MF and VHF transmissions.

Online registration is now open on the IALA website: <https://www.iala-aism.org/product/workshop-on-ranging-mode/>

## Action requested

The Meeting is invited to take note of the information.



9 – 12 September 2019

## WORKSHOP ON RANGING MODE (R-Mode)

IALA Headquarters, Saint-Germain-en-Laye, France



The International Association of Marine Aids to Navigation and Lighthouse Authorities (IALA) is hosting a workshop on Ranging Mode (R-Mode) at IALA Headquarters, Saint-Germain-en-Laye from 9-12 September 2019. The working language will be English. The workshop is supported by the project R-Mode Baltic which is co-financed by the European Union through the European Regional Development Fund within the Interreg Baltic Sea Region Programme.

### BACKGROUND

Ranging Mode (R-Mode) is a terrestrial positioning and timing system under development which supports vessel operations in coastal areas. It is foreseen as a backup system for GNSS. The R-Mode system itself consists of maritime radio transmitters, which were modified in a way that they broadcast synchronised ranging signals. Here, the transmissions of maritime radio beacons and base stations of Automatic Identification System (AIS) or, in the future, VHF Data Exchange System (VDES) are considered as signals of opportunity. The R-Mode system should be standardized to be used as a transnational navigation system.

### OBJECTIVE

This IALA workshop aims to achieve the following:

- Give participants an overview about the recent status of world-wide R-Mode activities and latest results;
- Define R-Mode requirements for implementation with VDES;
- Develop a roadmap for the standardisation and implementation of R-Mode on MF and VHF transmissions.

### TOPICS

The workshop deals with general R-Mode aspects which have to be agreed upon in the early phase of system development. In particular the maritime user requirements on a backup system and the implementation approach of R-Mode as part of VDES. Furthermore, world-wide experts are invited to discuss and share their results of R-Mode research, and agree a way forward, including R-Mode standardisation. To support ongoing and upcoming R-Mode research, development, validation and implementation activities a concept for an information exchange platform will be further developed which should comprise world-wide available R-Mode testbeds and test facilities.

### ATTENDEES

The workshop will provide a forum for discussions between stakeholder groups. It is envisaged that the workshop will be attended by representatives of:

- IALA's members
- IALA Sister Organisations
- Research institutions, which work on resilient PNT
- Key industry stakeholders such as manufacturers and users (shipowners, navigators, pilots, etc.)



## REGISTRATION FEE

The registration fee for the workshop is EUR 150. It includes workshop material, coffee breaks and a workshop dinner. Registration should preferably be made online on [www.iala-aism.org](http://www.iala-aism.org), news and events, calendar. Participants who are unable to pay online are invited to send the registration form at Page 3, duly filled in, by e-mail to [contact@iala-aism.org](mailto:contact@iala-aism.org).

## VENUE

The venue will be held at IALA headquarters, 9-12 September 2019.



IALA Headquarters, Saint-Germain-en-Laye, France

## HOTEL

Delegates are responsible for booking their own hotels. Please see Hotel Information flyer provided by the IALA secretariat via this link <https://www.iala-aism.org/contact/>

## PROVISIONAL PROGRAMME

### DAY 1 - Monday 9 September 2019

12:00 - 13:00	Registration	
13:00 - 14:30	Session 1	Opening and keynote addresses
14:30 - 15:10	Group photo and Tea / coffee break	
15:10 - 17:30	Session 2	Presentations by expert speakers

### DAY 2 - Tuesday 10 September 2019

09:00 - 10:20	Session 3	Goals and objectives of the workshop
10:20 - 10:50	Tea / coffee break	
10:50 - 12:30	Session 4	Common Working Group: Requirements of stakeholder on the R-Mode system
12:30 - 13:30	Lunch	
13:30 - 15:15	Session 5	Working Group 1: VDES R-Mode implementation Working Group 2: Guidelines on Implementation of R-Mode on MF and VHF
15:15 - 15:45	Tea / coffee break	
15:45 - 17:30	Session 5 continued	Working Groups 1 and 2

### DAY 3 - Wednesday 11 September 2019

09:00 - 10:30	Session 6	Common Working Group: Development a platform concept for test facilities and testbeds
10:30 - 11:00	Tea / coffee break	
11:00 - 12:30	Session 7	Working Group 1: VDES R-Mode implementation (continue Tuesday session) Working Group 2: R-Mode development, standardisation and implementation roadmap
12:30 - 13:30	Lunch	
13:30 - 15:30	Session 7 continued	Working Groups 1 and 2
15:30 - 16:00	Tea / coffee break	
16:00 - 17:00	Session 8	Panel Discussion: What is the future of R-Mode?
19:00 - 21:30	Workshop dinner	

### DAY 4 - Thursday 12 September 2019

09:00 - 10:30	Session 9	Reports from Working Groups
10:30 - 11:00	Tea / coffee break	
11:00 - 12:00	Session 10	Conclusions and closing



## REGISTRATION FORM

Bookings should preferably done using the link <https://www.iala-aism.org/product/workshop-on-ranging-mode/>

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### WORKSHOP ON RANGING MODE

9 – 12 September 2019

IALA Headquarters

Saint-Germain-en-Laye, France

Registration closes on the 26 August 2019

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#### Participant's details

Surname (family name): -----

First name (given name): -----

Title (Mr. /Mrs. /Dr., etc.): -----

Organisation or company: -----

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Address: -----

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Country: -----

Phone (incl. country code): -----

Mobile (incl. country code): -----

E-mail: -----

Dietary requirements (please specify):

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I agree to my contact details being provided  
in the final report of the workshop:

Yes  No

I need an invitation letter for visa purposes:

Yes  No

#### Payment details

by enclosed cheque or bank draft in EUROS

by VISA or MASTERCARD

No: -----

Expiry date: -----

Holder's name: -----

Total to be charged: -----

Signature -----

by bank transfer on receipt of an invoice

Other requirements (please specify):

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#### CANCELLATION POLICY

All cancellations must be sent by e-mail to  
[contact@iala-aism.org](mailto:contact@iala-aism.org)

A refund in full of the registration fee will only be provided  
if notification is given at least one week prior to the event.  
Otherwise, a cancellation charge of 50% will be applied.  
Name changes will be accepted.

In case of a no-show, 100% of the registration fee  
will be charged.