



WMO OMM

World Meteorological Organization
Organisation météorologique mondiale
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Всемирная метеорологическая организация

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Secrétariat

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19 October 2023

Our ref.: 21864/2023/I/ONM/RA II/WIGOS

Annex: 1 (available in English only)

Subject: WMO Integrated Global Observing System (WIGOS) Implementation

Workshop for the WMO Regional Association II (RA II) Members

Action required: To take note of the Workshop and nominate participant(s) from your

country, at your earliest convenience, but preferably not later than

25 October 2023

Dear Sir/Madam,

I am pleased to inform you that the WMO Integrated Global Observing System (WIGOS) Implementation Workshop for the WMO Regional Association II (RA II) Members will be held in Beijing, China, from 27 to 30 November 2023, at the kind invitation of the China Meteorological Administration (CMA). The Workshop will be conducted in English. In-person participation is encouraged, although there will be a possibility for online participation.

The purpose of the Workshop is to address the needs of and provide necessary support to RA II Members towards ensuring full implementation of WIGOS, and better respond to the requirements of the UN Early Warnings for All initiative (EW4All). The following topics will be covered during the Workshop: the Global Basic Observing Network (GBON), the Regional Basic Observing Network (RBON), the WMO Rolling Review of Requirements (RRR), operational weather radar networks and related data exchange, Aircraft Meteorological Data Relay (AMDAR) and Regional Centres supporting WIGOS. The Workshop's draft agenda is attached as an annex to this letter, while the detailed programme and other Workshop information will be made available on the WMO website under this link, in due course.

It is envisaged that the first day of the Workshop will be for higher-level management, while the following three days will be for middle-management staff and the experts concerned.

In this context, I would like to invite you to nominate the representative(s) of your country to participate in the Workshop and indicate whether they will attend in person or online.

It is hoped that the cost of your participant(s) will be borne by your Organization. However, if this is not possible, WMO is prepared to consider, upon request, providing financial support for up to one (1) participant from your country.

Regarding insurance coverage for non-staff members, may I draw your attention to the following:

To: Permanent Representatives of Members of Regional Association II with WMO

cc: Hydrological Advisers of Members of Regional Association II with WMO

"Non-staff members of WMO who are authorized to travel at the Organization's expense and/or who are receiving a DSA from WMO must ensure they are fully responsible for expenses incurred in the event of death, illness or injury during official travel and attendance at meetings on behalf of the Organization. They are, therefore, fully responsible for arranging life, health, accident, as well as any other forms of insurance with an adequate level of coverage for the duration of such meetings and events.

WMO liability is limited to the performance of services or attendance at a meeting on behalf of the Organization, is covered by an injury and illness benefit insurance which provides a limited coverage for medical, emergency and supplementary official travel expenses".

I should be grateful if you could kindly notify the Secretariat, by email to Ms Bing Liu at bliu@wmo.int, with the name and contact details of your expert(s)/representatives(s) who will attend the Workshop and indicate if their participation will be in-person or online, at your earliest convenience, but preferably not later than **25 October 2023**.

It is the participants' responsibility to acquire a visa for entering China. However, if necessary, WMO can assist in coordinating with CMA to obtain a formal invitation letter in support of a visa application, per request.

I would like to express my appreciation for your continued support in promoting the activities of WMO.

Yours faithfully,

Dr Wenjian Zhang for the Secretary-General

RA II - WIGOS Regional Implementation Workshop (Hybrid)

Concept Note

27-30 November 2023 Beijing, China (hosted by CMA)

1. Purpose

The purpose of the Workshop is to discuss and make progress on the key activities of the WIGOS implementation in Regional Association II (RA II):

- Implementation of Global Basic Observing Network (GBON)
- Development of the Regional Basic Observing Network (RBON)
- Strengthening collaboration with Regional WIGOS Centres (RWC), and with other WIGOS-related regional centres (Regional Instrument Centres (RIC), Regional Marine Instrument Centres (RMIC), Regional Radiation Centres (RRC), Regional Climate Centres (RCC) including third pole, Regional Training Centres (RTC)), GSRN Lead Centre
- Development of the WMO-IATA Collaborative AMDAR Programme (WICAP)
- Enhancement of Radar observation network capabilities
- Emerging technologies
- Environmental sustainability
- Contribution of Members to the Early Warnings for All (EW4All) initiative
- Capacity development

2. Background

Several successful workshops on WIGOS implementation in Regional Association II have already been organized, for example:

- Regional Association II (RA II) Training Workshop on Regional WIGOS Centre (RWC) Functions and Tools (online), 5–12 July 2021
- OSCAR/Surface training in RA II, 13–15 November 2019, Tokyo, Japan
- WMO RA II Workshop on Regional WIGOS Centres for West Asia, 30 April-2 May 2019, Jeddah, Saudi Arabia
- OSCAR/Surface training in RA II, 16–18 April 2019, Muscat, Oman
- WMO RA II WIGOS Workshop Regional WIGOS Centres and its services for Members, 6–9 March 2019, Tokyo, Japan
- RA II WIGOS Workshop, 6–9 November 2018, Beijing, China
- RA II/RA-VI Workshop on WIGOS, 12–14 September 2017, Minsk, Belarus

Through the interaction with experts and Members' representatives from WMO Regional Association II (RA II) during recent events held in Geneva, consultation with the WMO Regional Office for Asia and the South-west Pacific and following the visit of the WMO Secretary-General and Assistant Secretary-General earlier this year in China, a clear need to further support the full implementation of WIGOS in RA II has been identified.

To address the need and provide necessary support, the Commission for Observation, Infrastructure and Information Systems (INFCOM) is organizing the WMO Regional Association II (RA II) WIGOS Implementation Workshop for RA II Members, from 27 November to 30 November 2023, in Beijing, China.

3. Expected outcomes

In relation to recent Congress decisions and the RA II priorities, the Workshop is expected to:

- Provide a regional perspective on the contribution of GBON high-density networks per GBON technical regulations
- Provide guidance on how to achieve appropriate GBON standard density by taking into account cross-border areas
- Provide awareness and guidance on GBON Compliance monitoring and on the role of RWC
- Raise awareness of Members on their expected contributions to RBON to facilitate the design of RBON in RA II
- Provide information on the required RBON compliance, and explore what mechanisms and tools could be introduced for RBON compliance monitoring, in particular in relation to the role of the RWCs
- Provide guidance on how to address the identified regional challenges, and contribute to observational requirements of EW4AII
- Identify regional requirements for the AMDAR data
- Explore a regional operational mechanism for the AMDAR programme implementation, including WICAP
- Explore the possibility of expanding radar mosaic, exchange of data, to be one component of RBON in the region in response to the EW4All initiative
- Discuss and identify regional challenges regarding environmental sustainability of observations

4. Target Audience

The main/target audiences of the Workshop are as follows:

Day 1

high-level management, decision makers

Day 2-4

- Middle-level (technical) management
- Experts dealing with networks, radars, ABO matters
- Chairs/co-Chairs of relevant Regional (RA II) teams (WG-INF; ET-WIGOS; ET-RIC, ET-WICAP
- Chairs/co-Chairs of relevant Global (INFCOM) teams (TT-GBON-Next; ET-WTR; JET-EOSDE; ET-QTC)
- National Focal Points for WIGOS, WICAP

Provisional programme

Day 1, Monday, 27 November 2023					
Time (UTC)	Item	Topic	Speaker/Lead (TBC)		
	1	Opening and introduction			
	1.1	Welcome PR of China			
	1.2	Welcome from P-RA II			
	1.3	Representative of WMO SG			
	1.4	Local arrangements (10 minutes)			
	2	SESSION 1: WIGOS PRIORITIES			
	2.1	Outcome of Cg-19: WMO Strategic Plan			
	2.2	EW4All, RA II services, including INFCOM aspects			
	2.3	WIGOS framework			
	2.4	WMO technical regulations and guidance material			
	2.5	RA II WIGOS Operating plan and challenges			
	3	SESSION 2: GBON in RA II			
	3.1	The Global Basic Observing Network (technical regulations)			
	3.2	GBON compliance monitoring			
	3.3	WIGOS Tools for GBON			
	3.5	National presentations on GBON			
	4.1	Discussion on the GBON implementation in RA II			

Day 2, Tuesday, 28 November 2023					
Time. (UTC)	Item	Topic	Speaker/Lead (TBC)		
	3.5	National presentations on GBON (cont'd)			
	3.6	Discussion on the GBON implementation in RA II (cont'd)			
	4	SESSION 3: RBON Implementation in RA II			
	4.1	Introduction to the WMO Rolling Review of Requirements (RRR) process			
	4.2	Regulatory framework and guidance material supporting RBON implementation			
	4.3	Report on the progress with RBON design in RA II			
	4.4	Plan for full RBON Implementation in RA II			
	4.5	Discussion of the report and plan			
	5	SESSION 4: CMA observing capabilities			
	5.1	Presentations on CMA observing capabilities including emerging technologies			

Day 3, Wednesday, 29 November 2023				
Time. (UTC)	Item	Topic	Speaker/Lead (TBC)	
		SESSION 4: Regional Centres supporting WIGOS		
	6.	Regional WIGOS Centres		
	6.1	RWC Beijing - operations		
	6.2	RWC Tokyo - operations		
	6.3	Audit of the centres – report		
	6.4	Members' experience with the RWCs – national presentations		
	6.5	Discussion		
	7	Other regional Centres in support of WIGOS		
	7.1	Regional Instrument Centres in RA II – report (2, RIC-Beijing, RIC Tsukuba)		
	7.2	Regional Marine Instrument Centre China – report		
	7.3	Regional Radiation Centres in RA II – report (3, Pune, Tokyo, Saint Petersburg)		
	7.4	Regional Climate Centres in RA II – report (4, Beijing, Tokyo, Moscow, Pune)		
	7.5	Regional Training Centres in RA II – report (8, Nanjing (Beijing), New Delhi (Pune-IMD, Pune- NWA, Roorkee), Tehran, Baghdad, Seoul, Doha, Tashkent, Moscow)		
	7.6	Outcomes of seventh RMIC/AP Marine Instrumentation Workshop		
<u> </u>	7.7	Discussion		
	8	Visit to Regional Centres in Beijing (2-hour tour at CMA)		

Day 4, Thursday, 30 November 2023					
Time. (UTC)	Item	Topic	Speaker/Lead (TBC)		
	9	SESSION 5: Aircraft-based Observations (ABO) and Radar Observations capabilities and opportunities			
	9.1	WIGOS implementation concerning aircraft observations (WSI, metadata repository, data exchange, compliance monitoring)			
	9.2	Introduction to WICAP regulatory framework			
	9.3	Report on WICAP implementation in RA II			
	9.4	New and developing systems (MODE-S, UAS, ADD)			
	9.5	Introduction to Radar guidance and standardization material			
	9.6	Radar databases and data exchange formats			
	9.7	Radar networks in RA II (South-Asia network, Gulf network)			
	9.8	National experience and practices with Radar observations			
	9.9	Discussion			
	10	SESSION 6: SUMMARY AND CLOSING			
		Final discussion and summary of the Workshop recommendations			
		Closure of the Workshop			