

RBON DESIGN IN RA VI


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**RA VI Webinar on Regional Basic Observing Network (RBON)
10 June 2025**

RBON DESIGN IN RA VI

- [Resolution 5](#) (RA VI-19) - Implementation of Global and Regional Basic Observing Networks (GBON/RBON) and the Systematic Observations Financing Facility (SOFF)
- Establishment of RBON Focus Group within the Working Group for Observation, Infrastructure and Information Systems in order to foster the RBON design and implementation in the Region
- Development of Action Plan for RBON design in RA VI



World Meteorological Organization
REGIONAL ASSOCIATION VI (EUROPE)
Nineteenth Session (First Part)
15 to 16 October 2024, Virtual Session

RA VI-19(I)/Doc. 3.3.2
Submitted by:
Chair
15.X.2024
APPROVED

AGENDA ITEM 3: PLANNING OF SCIENTIFIC AND TECHNICAL MATTERS
AGENDA ITEM 3.3: Development of Infrastructure for Services
AGENDA ITEM 3.3.2: Regional Basic Observing Network

REGIONAL BASIC OBSERVING NETWORK
DRAFT RESOLUTION
Draft Resolution 3.3.2/1 (RA VI-19(I))
Implementation of Global and Regional Basic Observing Networks (GBON/RBON) and the Systematic Observations Financing Facility (SOFF)

REGIONAL ASSOCIATION VI (EUROPE),
Recalling:
(1) [Resolution 1 \(Cg-Ext\(2021\)\)](#) - WMO Unified Policy for the International Exchange of Earth System Data,
(2) [Resolution 2 \(Cg-Ext\(2021\)\)](#) - Amendments to the Technical Regulations related to the establishment of the Global Basic Observing Network,
(3) [Resolution 3 \(Cg-Ext\(2021\)\)](#) - Systematic Observations Financing Facility: Supporting Members in the Implementation of the Global Basic Observing Network,
(4) [Resolution 2 \(Cg-19\)](#) - WMO Strategic Plan (2024–2027),
(5) [Resolution 21 \(Cg-19\)](#) - GBON Implementation,
(6) [Resolution 1 \(EC-78\)](#) - WMO Road Map for the Early Warnings for All Initiative,
(7) [Resolution 2 \(EC-78\)](#) - Priority Activities contributing to the Early Warnings for All initiative,
(8) [Resolution 13 \(EC-78\)](#) - Amendments to the Manual on the WMO Integrated Global Observing System (WMO-No. 1160),
(9) [Resolution 14 \(EC-78\)](#) - Global Basic Observing Network Implementation and the Systematic Observations Financing Facility,
(10) [Resolution 6 \(RA VI-17\)](#) - Regional WIGOS Implementation Plan 2018–2021,
(11) [Decision 13 \(RA VI-17\)](#), which decided to establish a pilot Regional Basic Observing Network (RBON) for the Region,

ACTION PLAN FOR RBON DESIGN IN RA VI

Activity	Deliverables	Status
Activity 1: Compile a list of national priority hazards based on Member responses and regional activities	1. National priority hazards identified in RA VI	1. Completed
Activity 2: Outreach and communication to encourage Members to assign RBON observing stations	1. Communication materials 2. RBON webinar 3. OSCAR/Surface information session for hydrological advisors and OSCAR/Surface metadata editors	1. Ongoing 2. Ongoing 3. Planned for early autumn 2025
Activity 3: Identification of observation requirements for the region and the priority hazards	1. Select the application areas that are part of the value chain for the priority hazards 2. Develop a list of high-priority variables and corresponding observational requirements 3. Create a concept note on RA VI RBON observation requirements linked with priority hazards, including checklist, comprising criteria for the selection of RBON stations and examples of observing station technologies to be considered for RBON 4. Roadmap for full RBON implementation in RA VI	1. Completed (for floods) 2. First draft prepared for floods for review and commenting by WG-I, Hydrological Coordination Panel and Members 3. First draft prepared

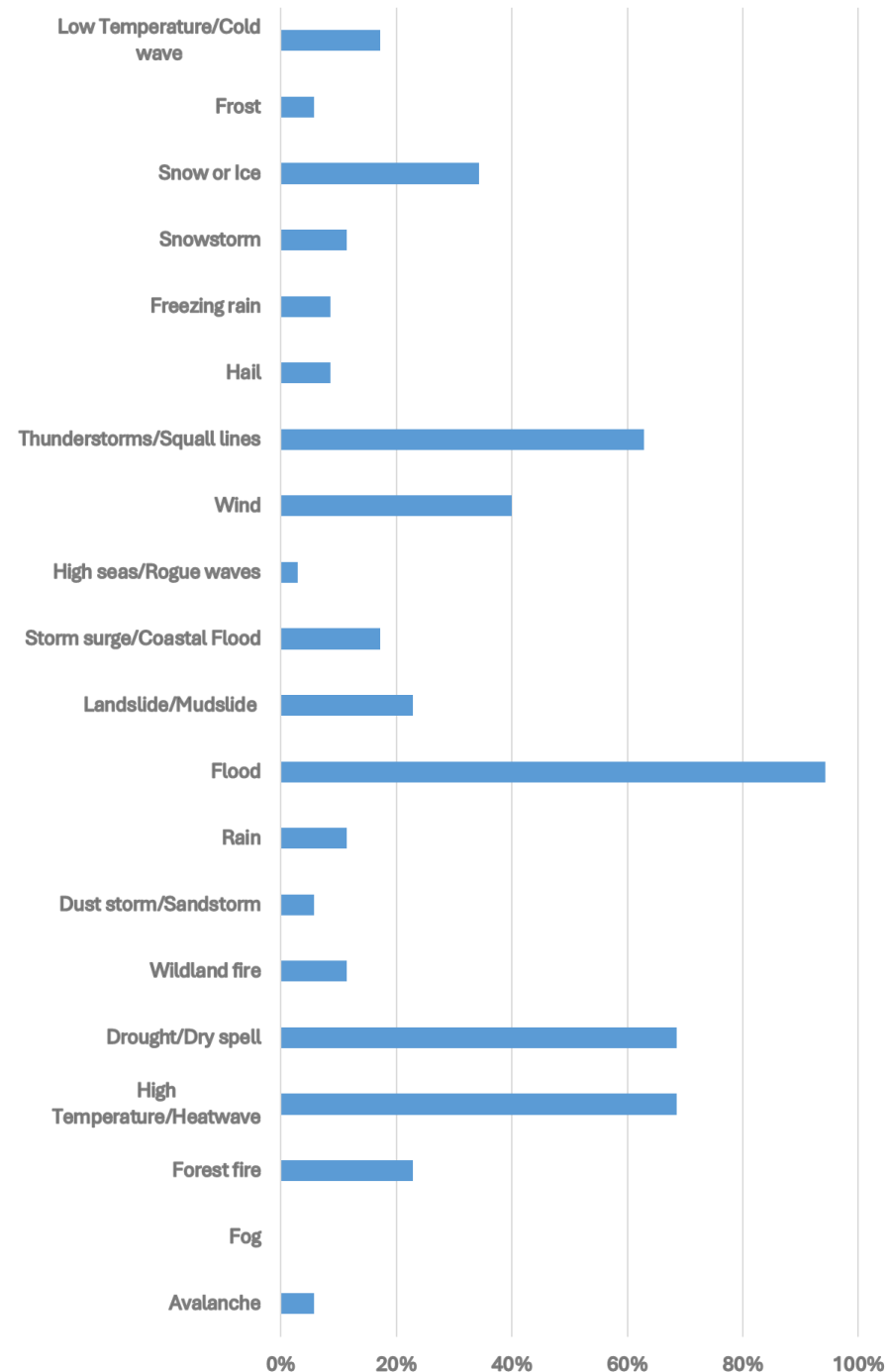
ACTION PLAN FOR RBON DESIGN IN RA VI

Activity	Deliverables	Status
Activity 4: Survey on existing and near to medium-term future capabilities based on RBON observation requirements	1. Survey developed, circulated to Members and results analysed	1. Ongoing, survey to be circulated in June
Activity 5: Perform RBON Gap analysis for the region and the considered hazards	1. Collaborate with EUMETNET on methodology aspects of RBON Gap analysis based on existing capabilities 2. Perform RBON Gap analysis	TBD
Activity 6: Tools for supporting RBON implementation	1. Provide RA VI requirements for RBON Compliance monitoring tool 2. Advice on further evolvement of the OSCAR modules 3. Provide RA VI requirements for Gap analysis tool	TBD
Activity 7: Develop a midterm plan for evolution of RBON in in RA VI to address the remaining gaps	1. Mid-term plan	TBD

SELECTING KEY CHALLENGES – RA VI

WMO survey (2024) to RA VI Members to gather a list of top 5 national priority hazards. 'Hazard' as classified in Guide to WIGOS.

- Results: Percentage of Member having identified a hazard in their list of top 5 National priority.
- Based on 38 responses so far.

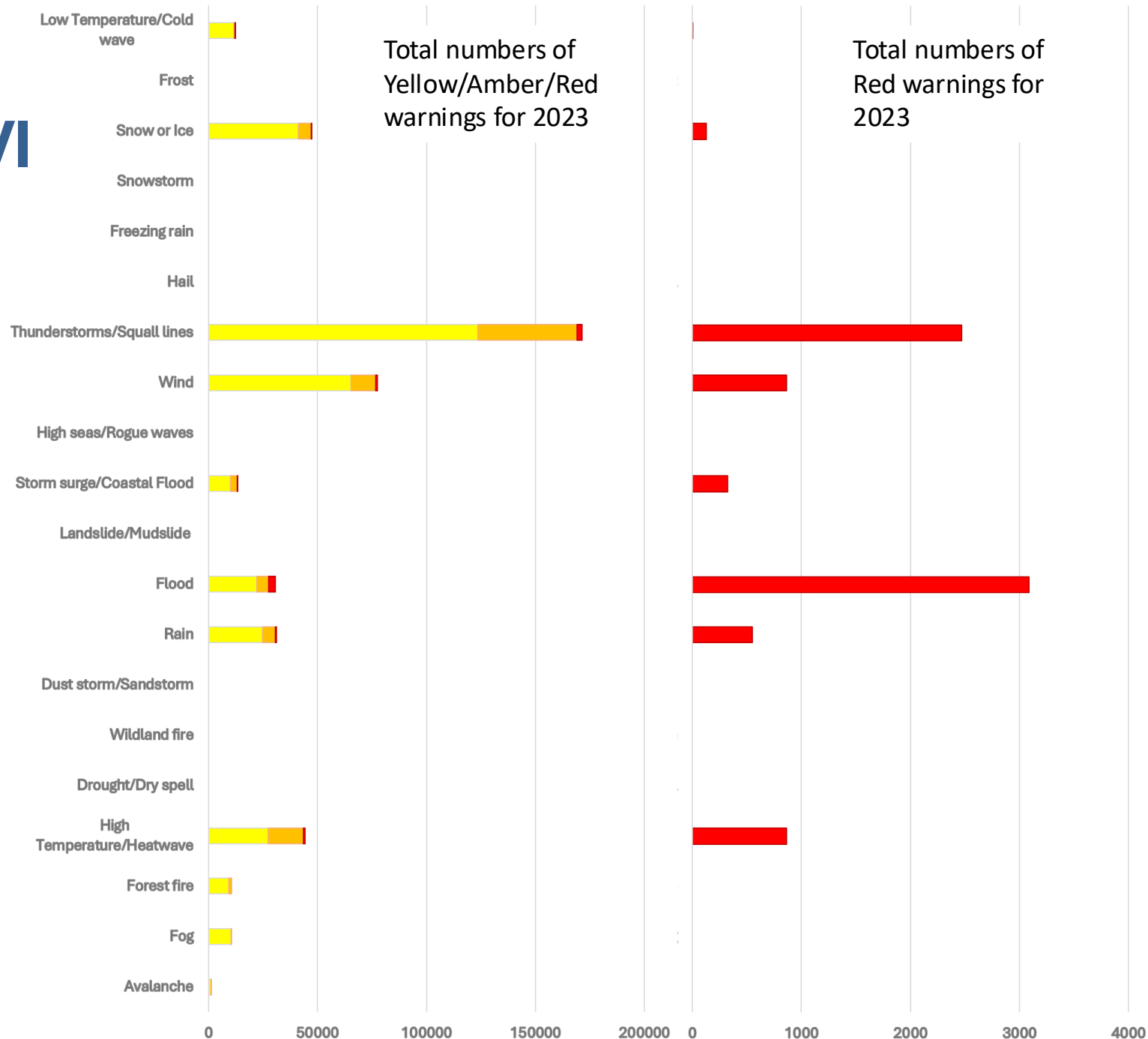


SELECTING KEY CHALLENGES – RA VI



Number of warning issued by Meteoalarm during 2023. Information kindly provided by the Meteoalarm Manager (Dec 2024).

Meteoalarm is an early warning dissemination system providing visual awareness information from 38 European National Meteorological and Hydrological Services. Warning are color coded yellow, amber and red.



SELECTING KEY CHALLENGES – RA VI

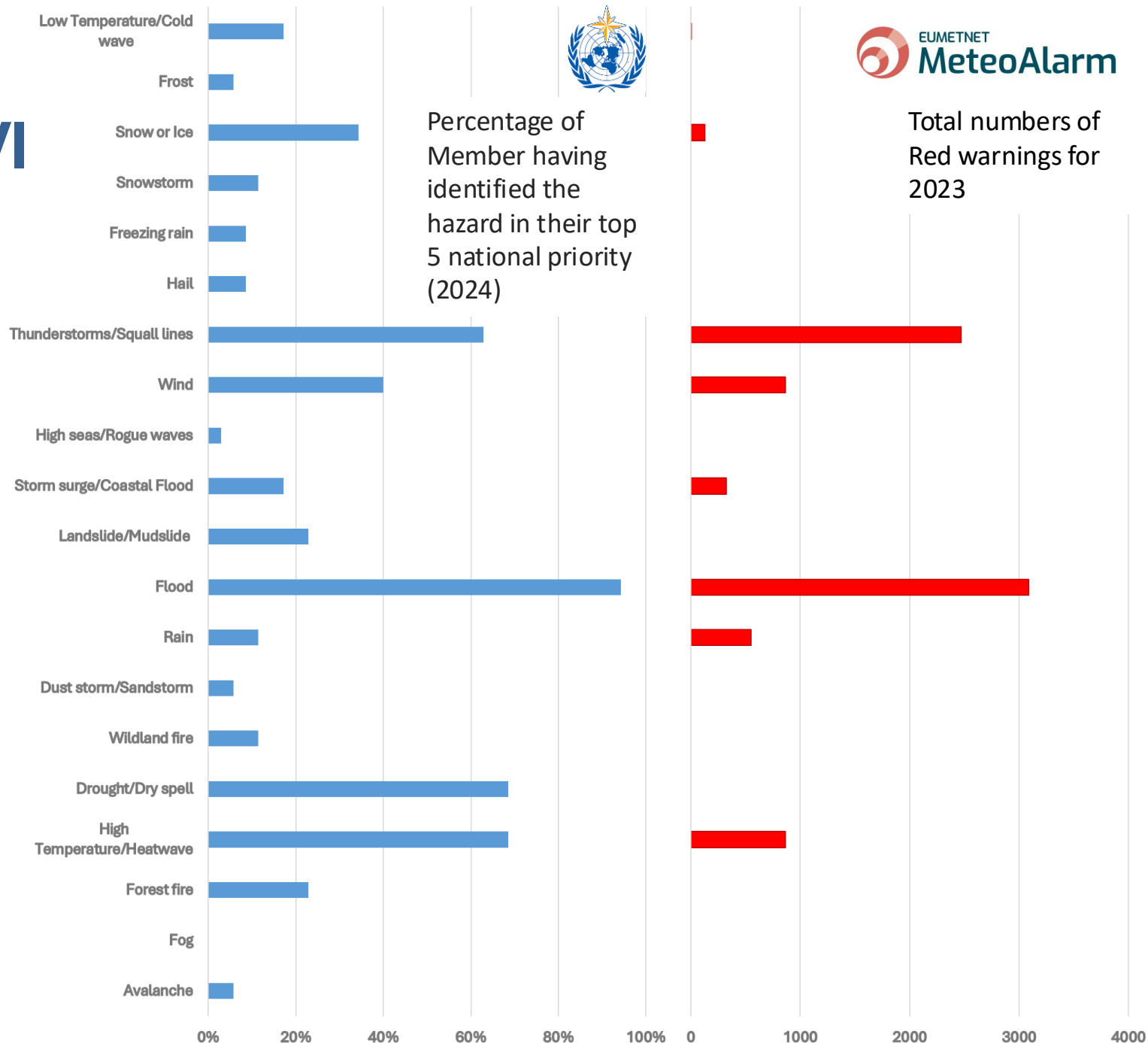
RA VI top priorities:

- Floods
- Thunderstorm/Squall lines
- Drought
- Heatwave

Outcome 1: RA VI

Implementation phased-approach:

1. Floods [2025]
2. Thunderstorm/Squall lines and Drought/ Heatwave [2026]



RECOMMENDATIONS TO MEMBERS

- Actively engage in implementation of RBON.
- Provide feedback to the proposed RBON high-priority variables and corresponding observational requirements.
- Respond to the survey on existing and near to medium-term future capabilities based on RBON observation requirements.
- Invite national partner organizations and programmes to participate in relevant RBON implementation activities.
- Register RBON stations in OSCAR/Surface.
- Provide and share data internationally and ensure long-term sustainability of observations.

THANK YOU FOR YOUR ATTENTION