

# AOMSUC-12

## The Joint RA-II/-V Coordination Meeting

### Updates on Operating Plans and Working Structure of RA II/V

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WMO Regional Office for Asia and Southwest Pacific (RAP)

18 Nov 2022

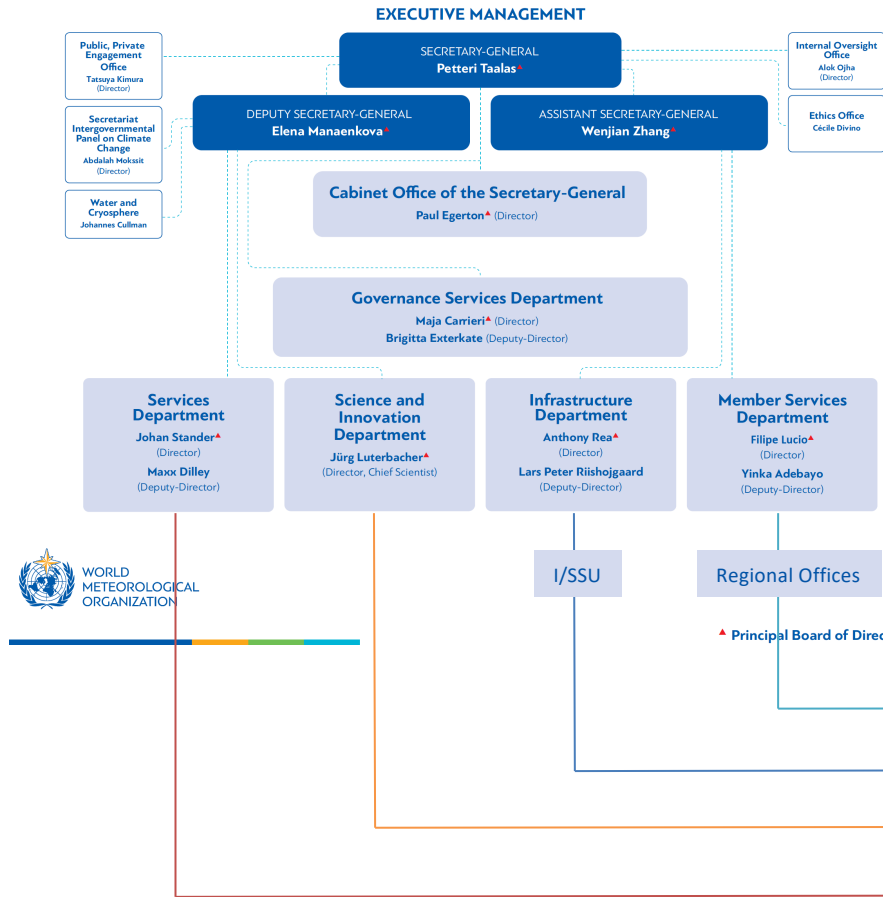


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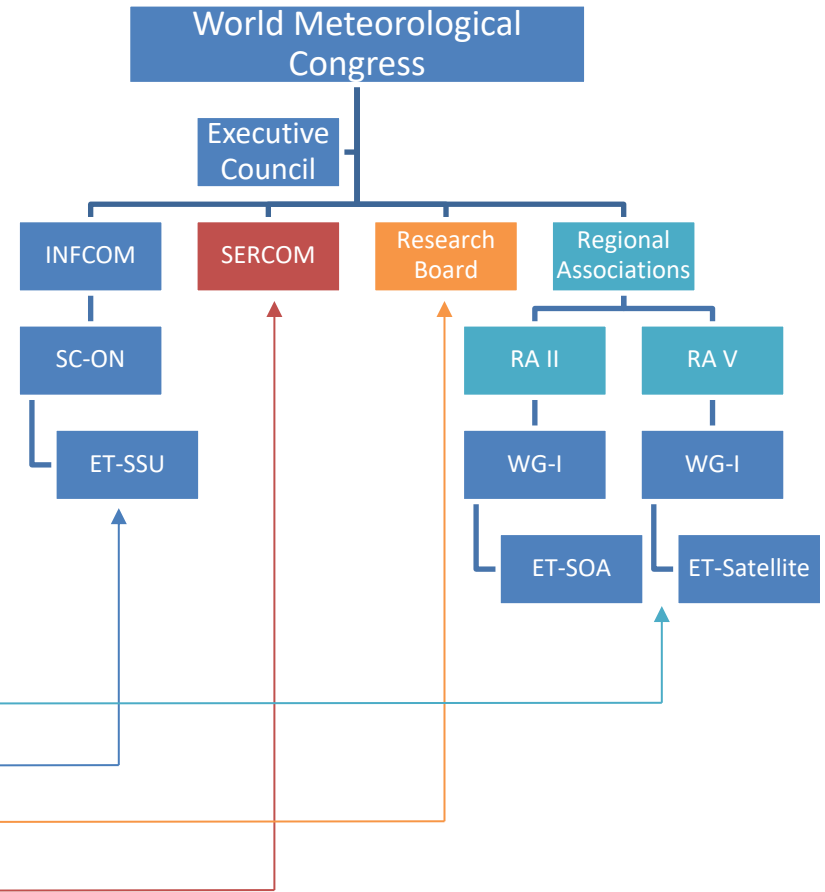
World Meteorological Organization

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# WMO Secretariat



# WMO Subsidiary Bodies



# Regional Operating Plan

## RA II(2021-2024)

- Approved by RA II – 17 (II) in 2021
- The Updated version was approved by RA II MG in April 2022
  - To address resolutions of Extra Congress(2021)

## RA V(2022-2023)

- Approved by RA V MG in September 2022

# Regional Working Structure

## • RA II

- New Working Structure established in RA II – 17
- Chair and Vice Chairs approved in established in RA II – 17
- Members of ETs were approved by RA II MG in July 2022

## • RA V

- New Working Structure established in RA II –18
- Chair and Vice Chairs approved in RA V MG-23
- Members of ETs have been submitted to RA V MG for approval.



# RA II Operating Plan 2021-2024

- **Adopted by RA II-17(II) and updated in 2022**
- **be a living document** ( to be updated from time to time by RA II WG/CP and approved by RA II Management Group )

- **Considered RA II priorities 2020-2023**
- **Directly related to the Resolutions and Decisions of cg-18, EC-72 , EC- 73, EC- 74 and Ext-cg(2021)**
  - ✓ **WIGOS**(RWCs, GBON,RBON,...); **WIS2.0; S/GDPFS**;...
  - ✓ **Service**(GMAS, Agriculture, Aviation, Marine, Climate, Urban ...)
  - ✓ **Hydrology**
  - ✓ ...

## • Led by WG-Infrastructure

- Establish RA II RWC
- Develop phased GBON implementation plan
- Develop regional AMDAR programmes
- Improve services of RIC
- Improve ocean observations
- Improve satellite observations and applications
- Implement WIS 2.0
- Accommodate S/GDPFS
- Promote long-term observing stations
- Coordinate on RFC
- Address WMO Data Policy and emerging data issues
- Capacity Building in Radar Techniques in Southeast Asia - Next Phase

## • Led by WG-Service

- Strengthen Multi-Hazard Early Warning Services: GMAS-A
- Promote Impact-based Forecast and Warning Services
- Improve Agricultural Meteorological Services
- Improve meteorological services for aviation
- Strengthen Marine and Coastal Services
- Promote Climate Services Implementation
- Promote WMO Cataloguing of Hazardous Events (WMO CHE)
- Advance Integrated Urban Services
- Global Air Quality Forecasting Information System (GAFIS) Asia Pilot

## • Hydrology-focused

- Improvement in hydrological services
- Promote cooperation in hydrology and water resources among RA II Members and ensure coordination among the hydrology substructures in RA II
- Improve Capabilities on Water Resources Assessment
- Improve Capabilities on Water Resources Assessment
- Reinforcing Members' capacities in hydrometry and sediment transport

## • Joint

- Promote polar and high mountain activities
- Improve observations and services for environmental needs, including air quality, and sand and dust storms
- Improve drought observations and services
- Public-Private Engagement for Smart Meteorological Services in Mega Cities





## Working Structure of Regional Association II (Asia)

## Management Group (MG)

### President

Dr Abdulla Ahmed AL MANDOUS

### Vice-president

Prof. Tran Hong THAI

### Members

Dr Mrutyunjay MOHAPATRA, Dr Sahar TAJBAKHSH MOSALMAN, Mr Naoyuki HASEGAWA, Mr PARK Kwangsuk, Mr ZHUANG Guotai, Dr Sung KIM (Regional Hydrological Adviser)

### Task Team on the Regional Concept (TT-RC)

C: Dr Sahar TAJBAKHSH MOSALMAN  
VC: Dr R. VENKATESAN

### Task Team on Review of the Regional Partnership and Sub-regional Cooperation (TT-RP)

C: Dr Mrutyunjay MOHAPATRA  
VC: Dr Ahad VAZIFEH

### WG Infrastructure

C: Mr SATO Yoshiaki  
VCs: Ms SHI Lijuan  
Dr K.S. HOSALIKAR  
Dr Ahad VAZIFEH

### Expert Teams

- WIGOS
- WIS
- Seamless GDPFS
- Hydrometry
- Ocean Observations
- WICAP
- RIC
- Radio Frequency
- Satellite

### WG Services

C: Mr ZHOU Qingliang  
VCs: Dr/Ms Kamaljit RAY  
Ms Saviz SEHAT KASHANI  
Mr KYODA Masayuki

### Expert Teams

- DRR
- Climate Services
- Hydrological Services
- Marine Services
- Agriculture Services
- Aviation Services
- Urban Services

### CP Hydrology

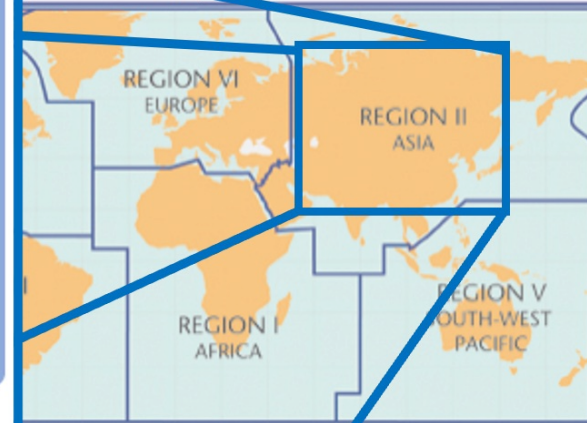
*Thematic Coordinator on Hydrology and Water Resources*  
C: Dr Hyo Seob CHO  
Co-C: Dr Sung KIM

### Joint Expert Teams

- Third Pole Regional Climate Centre
- Environmental Observations and Services

### Regional Focal Points on Research

Ms CHEN Jing (WWRP)  
Dr Ashis Kumar MITRA (WCRP)  
Dr Mai Van KHIEM (GAW/WWRP)



Credit: Jun YU (RAP/WMO)\_Feb 2022 ©



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## RA II Expert Team on Satellite Observations and Applications (ET-SOA)

ET and Leader	IP/DP/PP in <a href="#">RA II OP</a>	(Number of experts) Core member	Associate member
Expert Team on Satellite Observations and Applications (ET-SOA)  Leader: KIM Dohyeong (KMA) (Representatives of RA II-16 WIGOS project)	RA II-17-I-IP-6: Improve satellite observations and applications	(2) Other Representatives of RA II-16 WIGOS project: BESSHO Kotaro (JMA)  Xian Di (CMA)	Ms Bui Thi Hong Trang (VNMHA)  Representatives of V Labs <u>VLab CoE Gwanghyewon:</u> Ms KIM, OkHee  VLab CoE Beijing (TBD) VLab CoE Nanjing (TBD) VLab CoE Moscow (TBD) VLab CoE St Petersburg (TBD)
	RA-II-17-I-PP-1: Expansion of marine weather satellite broadcast service in Asia-Pacific	(1) Focal Point of this Project: KIM JinYoung (KMA)	Representative of this Project: Ms LEE, Soyung (KMA)

## Terms of Reference

(i) Lead the Implementation Project (IP)

•RA II-17-I-IP-6: Improve satellite observations and applications

Coordinate the Pilot Project (PP)

•RA-II-17-I-PP-1: Expansion of marine weather satellite broadcast service in Asia-Pacific

(ii) Liaise with coordinator of satellite matters of INFCOM and INFCOM Expert teams, in particular SC-ON ET-SSU;

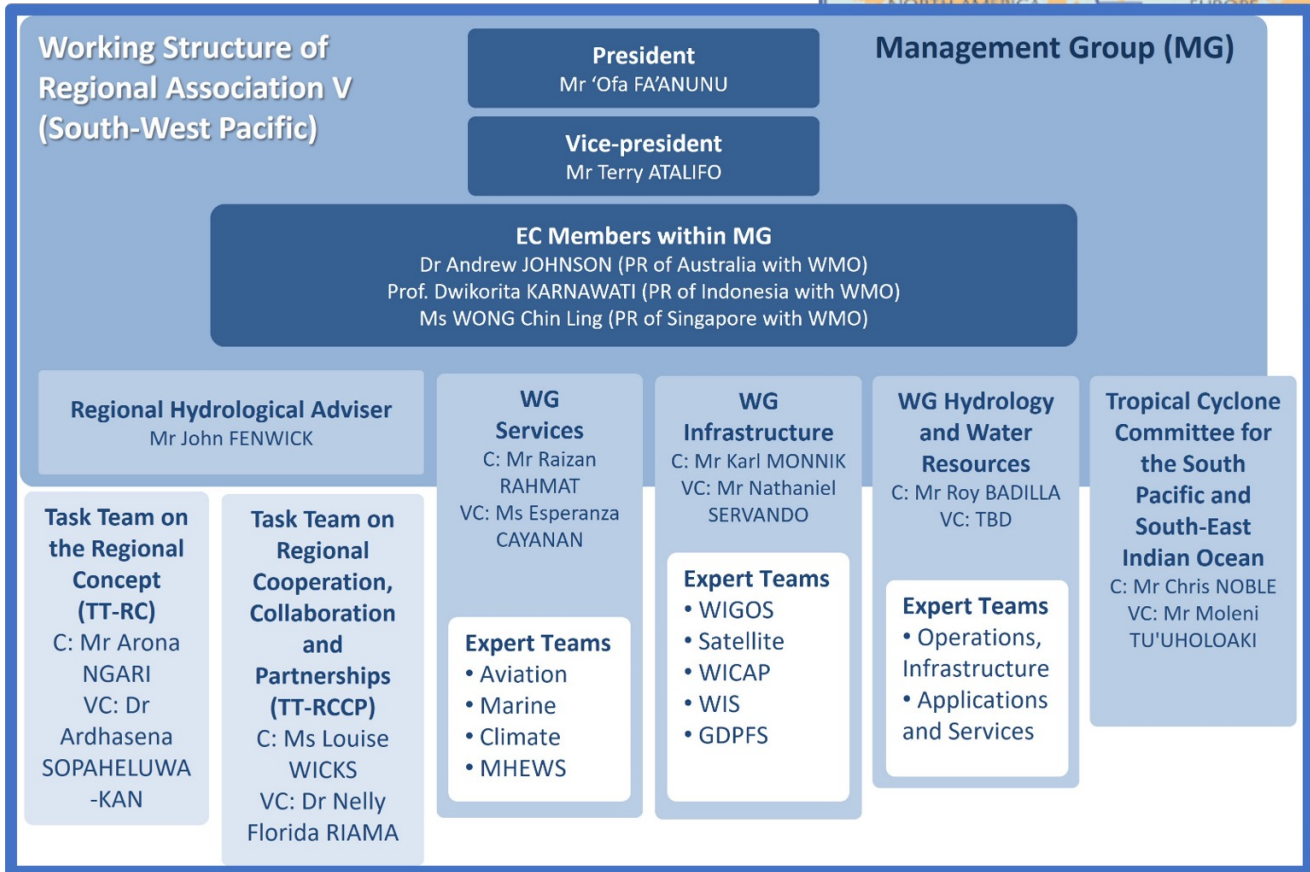
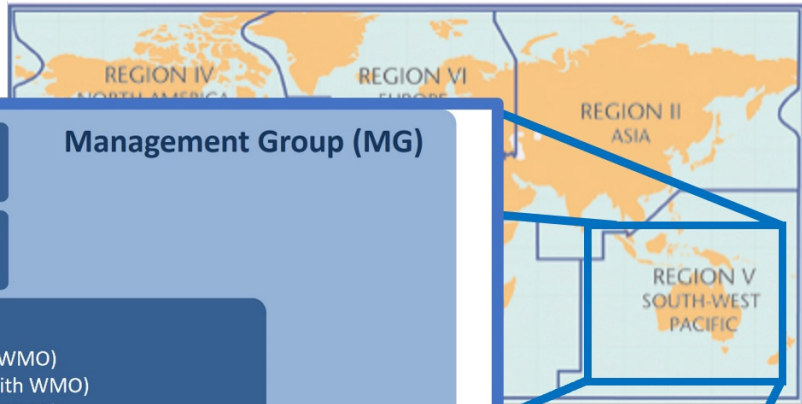
(iii) Maintain regional requirements for satellite data and products;

(iv) Develop and execute regional training plans for the use of satellite data and products with WMO-CGMS Virtual Laboratory for Education and Training in Satellite Meteorology (VLab) and WMO regional Training Centres (RTCs);

(v) Consider developing software/tools and methods for application of satellite observations in operational forecasting;

(vi) Support the SC-ON ET-SSU activities regarding WMO Members regarding matters with regional perspectives;

No.	LTG	CG/EC	P	KRA	Deliverables	KPI	Activities
RA II-17-I-IP-6	LTG-2/ Objective-2.1	R51, R52, R53, R54/ Cg-18	4	Improve satellite observations and applications	<ol style="list-style-type: none"> <li>Satellite observations and applications promoted at regional level</li> <li>AOMSUC further promoted</li> <li>VLab Strategy 2020-2024 implemented by hosting VLab activities</li> <li>SWCEM implemented in East Asia</li> <li>Assists NMHSs in RA II to make better use of satellite-related information</li> </ol>	<ol style="list-style-type: none"> <li>Number of Members accessing adequate satellite data</li> <li>Number of training events</li> <li>Number of available VLab training materials</li> <li>Number of satellite services supporting Members</li> </ol>	<ol style="list-style-type: none"> <li>AOMSUC-11 hosted by China in October 2021 (Virtual), together with a VLab training, and a RA II/V coordination meeting (Completed)</li> <li>AOMSUC-12 in 2022 hosted by Japan together with a VLab training, and a RA II/V coordination meeting</li> <li>SG-SWCEM-EAWP annual meetings (2022-2024)</li> <li>RA II WIGOS Project – Develop Support for NMHSs in Satellite Data, Products and Training - Next Phase</li> <li>Training course on satellite meteorology (RTC-Beijing) (2021-2024) (Partially Completed for 2021)</li> </ol>



## RA V Expert Team on Satellite Utilization (ET-SAT)

Leader/Co-Leader	Core members	Associate members
Leader: To be appointed shortly	TBD (2-3 members)	TBD (8-10 members)
Co-Leader: To be appointed shortly		

### Terms of Reference

- (a) To identify the priority needs of Members in RA V to obtain and exchange meteorological satellite data and related information;
- (b) To identify communications needs and solutions both within-country and in the Region;
- (c) To engage with global satellite service providers to facilitate access to specialized satellite services and products;
- (d) To investigate options and alternatives and make recommendations on effective and achievable means to overcome any shortcomings;
- (e) To make recommendations on capacity-development initiatives to enable sustained operation and maintenance of satellite data-receiving, data-processing and visualization systems, with particular regard to new generations of meteorological satellites;
- (f) To coordinate with relevant INFCOM subsidiary bodies and provide advice to the Working Group on Infrastructure on the above issues.

### RA V Operating Plan (2021-2023) (Relevant to ET-SAT)

WMO LTG	Key Result Areas	Output	KPIs	Related Activities and Milestones
LTG-2/ Objective- 2.1	<b>Improve satellite observations and applications</b>	<ol style="list-style-type: none"> <li>1. Satellite observations and applications promoted at regional level</li> <li>2. Asia Oceania Meteorological Satellite Users' Conference (AOMSUC) further promoted</li> <li>3. VLab Strategy 2020-2024 implemented by hosting VLab activities</li> <li>4. The Space-based Weather and Climate Extremes Monitoring (SWCEM) implemented</li> <li>5. NMHSs in RA V assisted to make better use of satellite-related information and products</li> </ol>	<ol style="list-style-type: none"> <li>1. Number of Members accessing adequate satellite data</li> <li>2. Number of training events (or other capacity development related activities), learning hours, Number of trainees and participants</li> <li>3. Number of available VLab training materials</li> <li>4. Number of satellite services supporting Members</li> </ol>	<ol style="list-style-type: none"> <li>1. Join AOMSUC-12 to be hosted by Japan in 2022 together with a VLab training, and support the organization of RA II/V coordination meeting (2022)</li> <li>2. Hold training events and other capacity development activities (e.g. in collaboration with VLab in RA V) (2022-2023)</li> <li>3. Support the implementation of SWCEM in RA V (2022-2023)</li> </ol>



# Alignment to Infrastructure Commissions

Proposal for New RA II Substructure	Proposal for New RA V Substructure	INFCOM
MG	MG	MG
ET-WIGOS	ET-WIGOS	SC-ON
ET-RF		
ET-Hydro		
ET-SAT	ET-SAT	
ET-WICAP	ET-WICAP	
ET-RIC		
ET-OO		SG-OOIS
ET-WIS	ET-WIS	SC-IMT
ET-GDPFS	ET-GDPFS	SC-ESMP

WIGOS

# Activities

## - Improve satellite observations and applications

### RA II

- 1. **AOMSUC-11** hosted by China in October 2021 (Virtual), together with a VLab training, and a RA II/V coordination meeting (Completed)
- 2. **AOMSUC-12** in 2022 hosted by Japan together with a VLab training, and a RA II/V coordination meeting
- 3. **SG-SWCEM-EAWP** annual meetings (2022-2024)
- 4. **RA II WIGOS Project** – Develop Support for NMHSs in Satellite Data, Products and Training - Next Phase)
- 5. **Training course** on satellite meteorology (RTC- Beijing) (2021-2024) (Partially Completed for 2021)

### RA V

- 1. Join **AOMSUC-12** to be hosted by Japan in 2022 together with a VLab training, and support the organization of RA II/V coordination meeting (2022)
- 2. Hold **training events** and other capacity development activities (e.g. in collaboration with VLab in RA V) (2022-2023)
- 3. Support the implementation of **SWCEM** in RA V (2022-2023)

# Thank You



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