

RA II WIGOS Project to Develop Support for NMHSs in Satellite Data, Products and Training

Seventh Session of the Expert Team on Satellite Utilization and Products
(ET-SUP-7)

27-30 May 2013
WMO HQ, Geneva

Japan Meteorological Agency



Contents

1. About RA II WIGOS Project

- History
- Terms of Reference
- Structure
- Members

2. Third and Fourth Phase Accomplishments

- Second Meeting of the Coordinating Group
- Newsletters
- RA II Pilot Project Webpage
- RA II Pilot Project Web-based Questionnaire
- Alignment of Pilot Project with VL activities

1. About RA II WIGOS Project

History

December 2008

The 14th session of WMO Regional Association II (XIV-RA II) held in Tashkent, Uzbekistan adopted a resolution to establish the “RA II Pilot Project to develop support for NMHSs in satellite data, products and training”.

After XIV-RA II, the WMO Secretariat invited WMO Members to join the **Pilot Project Coordinating Group**.

First phase:	September 2009 to August 2010
Second phase:	September 2010 to August 2011
Third phase:	September 2011 to August 2012
Fourth phase:	September 2012 to August 2013

December 2012

The 15th session of WMO Regional Association II (XV-RA II) held in Doha, Qatar decided the “Pilot Project” to be evolved into the “RA II WIGOS Project to develop support for NMHSs in satellite data, products and training”.

Coordinating Group Members

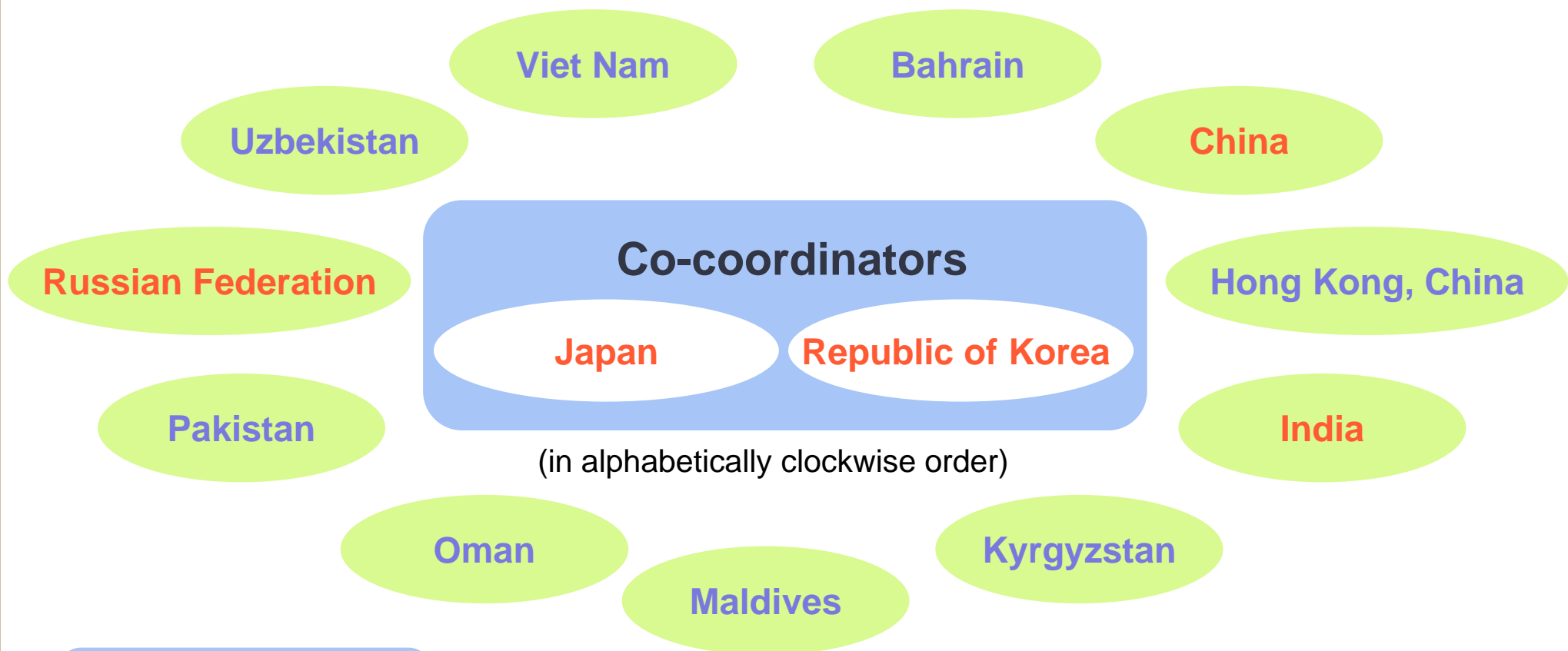
Coordinating Group

(as of 31 March 2013)

WMO

Space Programme

Regional Office for Asia and South-West Pacific



(in alphabetically clockwise order)

EUMETSAT
(Observer)

Satellite Operators & NMHSs

2. Third and Fourth-Phase Accomplishments (from Sep. 2011 up to now)

- a. Second Meeting of the Coordinating Group
- b. Quarterly **newsletters** for RA II Members
- c. Establishment of RA II Pilot Project **webpage** on the WMO Space Programme (WMOSP) website (hosted by WMOSP)
- d. Conducting RA II Pilot Project **questionnaire** on the web to understand the needs of satellite data users in RA II
- e. Operating on-site “**Training Program**” of satellite data processing, utilization and application as part of VLab

The 2nd Meeting of Coordinating Group *in Jeju, Republic of Korea, 8 October 2011*

- 4th phase action plan agreed to continue and extend on-going activities
 - Issuance of quarterly newsletters
 - Enhancement of Pilot Project web pages
 - Alignment of pilot project with Virtual Lab activities
 - Identification of requirements from RA II Members through questionnaire

To response to the CBS-XV recommendation to formulate procedure for documenting regional requirements for satellite data access and exchange for each region,

- Agreed to proceed to **a WMO RA-II WIGOS project**



Quarterly Newsletters

Contents

- **Information on access** to satellite imagery, data and products, including application products
- **News** on meteorological satellites and new services
- **Progress** in the Pilot Project
- **Introduction to the activities** of other RAs and WMO VLab activities
- **Information on training activities** and satellite related **meetings**

The Anticipated Contributors to the Newsletter

- Satellite Operators in RA II
CMA, IMD, JMA, KMA, ROSHYDROMET and EUMETSAT (observer)
- R&D Satellite Agencies
CNSA, JAXA, KARI, ROSCOSMOS
- WMO-CGMS Virtual Laboratory (VLab) Members
- All the RA II Members

Quarterly Newsletters (cont.)

Issued Date

Newsletters have been issued almost quarterly.

Newsletter Vol. 1 No. 1, Sep. 2009

Newsletter Vol. 1 No. 2, Apr. 2010

Newsletter Vol. 1 No. 3, May 2010

Newsletter Vol. 1 No. 4, Jul. 2010

Newsletter Vol. 1 No. 5, Aug. 2010

Newsletter Vol. 2 No. 1, Dec. 2010

Newsletter Vol. 2 No. 2, May 2011

Newsletter Vol. 2 No. 3, Jun. 2011

Newsletter Vol. 2 No. 4, Sep. 2011

Newsletter Vol. 3 No. 1, Jan. 2012

Newsletter Vol. 3 No. 2, May 2012

Newsletter Vol. 3 No. 3, Jul. 2012

Newsletter Vol. 3 No. 4, Sep. 2012

Newsletter Vol. 4 No. 1, Apr. 2013



In purpose of the training is to provide information regarding COMS utilization. The course is composed of the lecture COMS image data and products, processing systems and satellite data service and user stations with in of COMS program by the Korean in those field. And the course also are include data service application using satellite data.



Figure 2 One of the lectures of 2009 Training program

In the future, it would be expected that the achievement of KMA's building course will contribute to the more rapid project progress with the cooperation of the participants in the Asian Pacific region.

COMS is at almost its final stage of development before the launch. KMA plans to continue 'The Training for Advanced Analysis of COMS data' after the launch of COMS. And in the next issue of newsletter, the current status of COMS development program will be introduced.

(Dr. Geungho KIM, KMA)




Figure 3 2009 Training Participants

RA II Pilot Project Webpage

http://www.wmo.int/pages/prog/sat/ra2pilotproject-intro_en.php

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Working together in weather, climate and water

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Members
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Programmes
GFCS
Meetings
Publications
Library
Learning
Publishing tools
Partnership
Themes
Vacancies
Visitors' info
Youth corner

Search ...

RA II Pilot Project 

Programmes > Space > Regional Activities > RA II Pilot Project

RA II Pilot Project

Background

Note: the RA II Pilot project Product Links can be found [here](#) (Also accessible via the right hand menu)

The 14th session of WMO Regional Association II (XIV-RA II), held in Tashkent, Uzbekistan from 5 to 11 December 2008, adopted a resolution to establish a pilot project for the development of support for National Meteorological and Hydrological Services (NMHSs) in the areas of satellite data, products and training. After the session, the WMO Secretariat invited WMO Members to join the Pilot Project Coordinating Group, whose members as of 31 May 2011 are Japan (Co-coordinator), the Republic of Korea (Co-coordinator), Bahrain, China, Hong Kong – China, India, Kyrgyzstan, Maldives, Oman, Pakistan, the Russian Federation, Uzbekistan, Vietnam and, as an observer, EUMETSAT.

Mission

This project was established as a kind of self-help effort for NMHSs in RA II to make satellite-related information flow better. The major focus of the initiative is to facilitate the timely provision of satellite-related information by satellite operators themselves to users, i.e., NMHSs in RA II, especially developing countries including LDCs. As other activities are ongoing such as the Virtual Laboratory (VLab), we need to create synergy for greater benefits and efficiency, avoiding duplication of effort.


The first-phase action plan of the RA-II pilot project from September 2009 through August 2010 included:

1. Issuance of bi-monthly newsletters for RA II members
2. Establishment of pilot project web pages on the WMO Space Programme website (hosted by WMO SP)
3. Creation of two mailing lists: for RA II members and for Coordinating Group members
4. Identification of requirements through the above activities and by preparing for a survey of RA II members in order to provide assistance to recipient members

Programme Overview



- ← Space-based GOS
- ← Data access & use
- ← Awareness & Training
- ← Space Weather

Regional Activities

- RA I Expert Group
- RA II Pilot Project
- RA II Product Links
- RA III/IV Satellite Data Requirements 

Information Resources

Partners

- CGMS 
- GOS
- WIGOS
- WIS
- OSCAR Database 



RA II Pilot Project Webpage (cont.)

http://www.wmo.int/pages/prog/sat/ra2pilotproject-links_en.php

- Governance
- Members
- Media centre
- Programmes
- GFCS
- Meetings
- Publications
- Library
- Learning
- Publishing tools
- Partnership
- Themes
- Vacancies
- Visitors' info
- Youth corner



RA II Links to Satellite Data and Products

[Programmes](#) > [Space](#) > [Regional Activities](#) > [RA II Pilot Project](#) > [Links to Data and Products](#)

Links to RA-II Satellite Data and Products

This page provides links to various information on satellite data/products in RA-II.

Information on Satellite Operation

The following links provide information about satellite operation by RA-II satellite operators.

- GEO
 - [METEOSAT \(0°\)](#) / [METEOSAT \(9.5°E\)](#) / [METEOSAT \(57.5°E\)](#)
 - [GOES-E \(75°W\)](#), [GOES-W \(135°W\)](#)
 - [MTSAT series \(145°E\)](#)
 - [FY-2E \(105°E\)](#), [FY-2D \(86.5°E\)](#)
 - [INSAT-3 \(93.5°E\)](#), [KALPANA-1 \(74°E\)](#)
 - [COMS \(128.2°E\)](#)
- LEO
 - [NOAA series](#)
 - [METOP series](#)
 - [FY-1, FY-3 series](#)

Imagery of Related Meteorological Satellites

The following table provides links to be accessible to the webpages of satellite imagery by WMO RA-II satellite operators.

GEO	HRIT	LRIT	JPEG	PNG	SATAID	McIDAS	Composite Imagery
METEOSAT (0°)	Available	Available	Available				Available
METEOSAT (9.5°E)							
METEOSAT (57.5°E)			Available				
GOES-E (75°W)		Available	Available				Available
GOES-W (135°W)			Available				Available
MTSAT-2 (145°E)	Available	Available	Available	Available	Available		
FY-2E			Available				



Programme Overview

- [→ Space-based GOS](#)
- [→ Data access & use](#)
- [→ Awareness & Training](#)
- [→ Space Weather](#)

Regional Activities

- [RA I Expert Group](#)
- [RA II Pilot Project](#)
- [RA II Product Links](#)
- [RA III/IV Satellite Data Requirements](#)

Information Resources

Partners

- [CGMS](#)
- [GOS](#)
- [WIGOS](#)
- [WIS](#)
- [OSCAR Database](#)

RA II Pilot Project Web-based Questionnaire

- Conducted in the third phase (2012)
- Question items are almost the same as those of WMO Space Programme Questionnaire
- The purpose is **to monitor the availability and use of existing satellite data and products** and **to identify any associated difficulties or limiting factors** in RA II

SECTION 2 – USE OF SATELLITE DATA AND PRODUCTS

Q6
Please indicate in Table 3 below how satellite data and products are used in your Organization.

Data / products used	Produced in your country	Produced elsewhere	Specify if used by assimilation in NWP model
Image data rendered graphically	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Imager data (VIS, IR, Microwave) used quantitatively	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sounder data	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other level 1 data (describe in Section 5)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Atmospheric Motion Vectors	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Temperature / humidity profiles	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cloud products	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sea surface / oceanographic products	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Land surface products	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Precipitation products	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other level 2 / level 3 products (describe in Section 5)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Blue : Level 1 data (3)
Red : Level 2 / level 3 products (3)

(3) Level 1 data are basic instrument data, possibly having undergone calibration, earth location and/or quality control correction, usually expressed in radiance or brightness temperature units. Level 2 products are earth located, derived geophysical parameters based on the processing of level 1 data (and possibly also using ancillary data) and Level 3 products are gridded point geophysical products, possibly on a multi-pass or multi-sensor basis.

Temporary save

Q7
Do you distribute satellite data and/or products to others?

- 20 out of 35 Members in RA II responded
- Results were reported in RA II PP Newsletter Vol. 3 No. 2 and the 2nd Coordination Group meeting

Alignment of VLab Activities (leading by KMA)

- Contribution to WMO VLab TSO in 2012
 - Contribution to VLab Technical Support Office as WMO Trust Fund
- Support of ground and data processing system (2010-2012)
 - Sri Lanka is the first country, and will expand to Asia-Pacific countries
 - Training of H/W system and S/W algorithm
(20 Nov.-3 Dec. 2011, 10-23 June 2012)
- WMO-KMA joint VLab HPTE (4-6 Oct. 2012, NMSC/KMA)
 - Lecturers: Dr. Purdom, Dr. Menzel, KMA, IPWG, CMA, JMA, and EUMETSAT
 - Participants: 20 including 5 KMA staff members
- Training Program “Analysis of COMS data”
 - 1st : Sep. 2 - 17, 2007 (13 participants/Asia-Pacific 13 countries)
 - 2nd : Sep. 18 - Oct. 9, 2008 (13 participants/12 countries)
 - 3rd : Sep. 3 – 24, 2009 (14 participants/14 countries)
 - 4th : Aug. 26 – Sep. 18, 2010 (19 participants/11 countries)
 - 5th : Sep. 2 – Sep. 22, 2012 (19 participants/13 countries)



Thank you for your attention.

