

Progress Report on the RA II WIGOS Project

to Develop Support for NMHSs
in Satellite Data, Products and Training

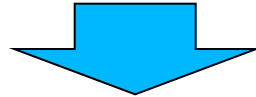
Co-coordinator, JMA and KMA

Presented to CGMS-42 plenary session, agenda item [F.1]

I-1 History of RA II WIGOS Project

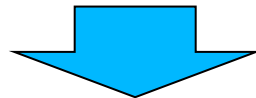
“Pilot Project to Develop Support for NMHSs in Satellite Data, Products and Training”

- ✓ Adopted in the 14th session of WMO Regional Association II (XIV-RA II), held in Tashkent, Uzbekistan in December 2008



Procession to a WMO RA-II WIGOS Project

- ✓ Agreed in the **2nd Coordination Group Meeting at Jeju, Republic of Korea on 8 October 2012**



“RA II WIGOS Project to Develop Support for NMHSs in Satellite Data, Products and Training from 2013”

- ✓ Decided at the **15th session of WMO RA II (RA II-15) at Doha, Qatar on 13-19 December 2012**

I-2 Coordinating Group Members

Coordinating Group

(13 countries as of 30 November 2012)

WMO

Space Programme

Regional Office for
Asia and South-
West Pacific

Viet Nam

Bahrain

Uzbekistan

Co-coordinators

China

Japan

Republic of Korea

Hong Kong, China

Russian Federation

- publishing Newsletters
- sharing information through Web and Mailing List
- user requirement survey
- providing information on satellite products, trainings from operators to satellite users

India

Pakistan

Oman

Maldives

Kyrgyzstan

EUMETSAT

(Observer)

Satellite Operators & NMHSs

(in alphabetically clockwise order)

II. First to Fourth-Phase Accomplishment

1st: Sep. 2009 – Aug. 2010

2nd: Sep. 2010 – Aug. 2011

3rd: Sep. 2011 – Aug. 2012

4th: Sep. 2012 – Aug. 2013

1. **Quarterly newsletters** for RA II Members
2. Establishment of **RA II Pilot Project Webpage** on the WMO Space Programme (WMOSP) website (hosted by WMOSP)
3. Establishment of **Portal Site** for accessing satellite imagery, data and products as well as training on the Webpage
4. Conducting **RA II Pilot Project questionnaire** on the web to understand the needs of satellite data users in RA II
5. Operating on-site “**Training Program**” of satellite data processing, utilization and application as part of VLab

II-1 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**

Issued Date

News letters have been issued almost quarterly.

Newsletter Vol. 1 No. 1, Sep. 2009

Newsletter Vol. 1 No. 2, Apr. 2010

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Newsletter Vol. 3 No. 3, Jul. 2012

Newsletter Vol. 3 No. 4, Sep. 2012



II-2 Coordinating Group Meeting

The 1st Meeting in Tokyo, Japan, 21–23 February 2011

- Agreed to clarify satellite users' needs and determine the status of utilization through the **RA II Pilot Project questionnaire** system;
- Agreed to share information on access to satellite imagery, data, products and training information through the **RA II Pilot Project portal site**; and
- Shared an understanding that **cultivating human resources is essential** in promoting the utilization of satellite products.

The 2nd Meeting in Jeju, Korea, 8 October 2012

- 4th phase action plan agreed to continue and extend on-going activities
- Agreed to proceed to **a WMO RA-II WIGOS project**

III. Progress and Plan of the RA II WIGOS Project

- RA II WIGOS Project webpage

http://www.wmo.int/pages/prog/sat/ra2wigosproject-intro_en.php

The screenshot shows the WMO website's navigation and content for the RA II WIGOS Project. The header includes the WMO logo and the text "World Meteorological Organization Weather • Climate • Water". The main navigation bar contains links for Home, Secretary-General, Weather, Climate, Water, Environment, Applications, and FAQs. A left sidebar lists various site sections like About us, Governance, Members, Media centre, Programmes, GFCs, Meetings, Publications, Library, Learning, Meteo term, Partnership, List of topics, Vacancies, Visitors' info, Youth corner, and Related links. The main content area features a breadcrumb trail: "Programmes > Space > Regional Activities > RA II WIGOS Project". The title "RA II WIGOS Project" is prominently displayed, followed by a "Background" section. The background text explains that the 14th session of WMO Regional Association II (XIV-RA II) in Tashkent, Uzbekistan (December 2008) adopted a resolution to establish a pilot project for supporting National Meteorological and Hydrological Services (NMHSs) in satellite data, products, and training. It lists participating members: Japan (Co-coordinator), the Republic of Korea (Co-coordinator), Bahrain, China, Hong Kong - China, India, Kyrgyzstan, Maldives, Oman, Pakistan, the Russian Federation, Uzbekistan, and Vietnam (observer), along with EUMETSAT. A subsequent paragraph notes that the 15th session (XV-RA II) in Doha, Qatar (December 2012) decided to continue and expand the project from 2013. A "Mission" section follows, stating the project's goal is to assist NMHSs in better using satellite-related information by facilitating the timely provision of such information by satellite operators themselves to users in the region. A right sidebar contains a "Programme Overview" menu with links to Space-based GOS, Data access & use, Awareness & Training, and Space Weather. Below this is a "Regional Activities" section with links to RA I Expert Group, RA II WIGOS Project, and RA II Product Links. Further down are "Information Resources" and "Partners" sections, with the latter listing CGMS, GOS, WIGOS, WIS, and OSCAR Database.

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RA II WIGOS Project

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RA II WIGOS Project

Background

Note: the RA II WIGOS 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.

At the 15th session of Regional Association II (XV-RA II) held in Doha, Qatar in December 2012, it was decided that the RA II Pilot Project to Develop Support for NMHSs in Satellite Data, Products and Training should continue and become the RA II WIGOS Project from 2013 in light of its importance in improving dialogue between satellite providers and users in the Region.

The Association stressed the importance of identifying and regularly documenting Region-oriented requirements for satellite data access and exchange, following the guidance provided by the "Procedure for Documenting Regional Requirements for Satellite Data Access and Exchange" [See [Recommendation 4.2/4 \(CBS-15\)](#)]. It tasked the Project to develop an initial set of such requirements.

Mission

This project assists NMHSs in RA II to make better use of satellite-related information. 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. It is necessary to create synergy between other ongoing projects such as the WMO-CGMS Virtual Laboratory (VLab) and provide greater benefits while avoiding duplication of effort.

Programme Overview

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

Regional Activities

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

Information Resources

Partners

- CGMS
- GOS
- WIGOS
- WIS
- OSCAR Database

III-1 Accomplishments (Jan. 2013 ~ April 2014)

Quarterly Newsletters to RA II Members

- Issued Date
 - Vol. 4/No. 1, April 2013
 - Vol. 4/No. 2, June 2013
 - Vol. 4/No. 3, November 2013
 - Vol. 4/No. 4, December 2013
 - Vol. 5/No. 1, March 2014
- Past issues
 - http://www.wmo.int/pages/prog/sat/ra2wigosproject-intro_en.php

4th Asia/Oceania Meteorological Satellite Users' Conference

- The conference was held in Melbourne, Australia from 9-11 October 2013.
- The conference was hosted and sponsored by the Australian Bureau of Meteorology (AuBOM) and was co-sponsored by CMA, JMA, KMA and WMO
- The conference was preceded by a two day training event at the AuBOM training facilities and brought together participants from Region II and V.

III-2 Future Plan

Supportive activities for preparation of satellite data

users to the new generation of geostationary meteorological satellites

- The new generation geostationary meteorological satellites such as Himawari-8, FY-4A, GEO-KOMPSAT-2A are planning to be operated from next year, 2015.
- The RA II WIGOS Project to develop support for NMHSs in satellite data, products and training will support for preparation of the NMHSs in RA II especially developing countries including LDCs to the new satellites.
- It will involve user training, guidance to upgrade processing software and hardware, information and tools.

Issuance of quarterly newsletters is also continued

III-2 Future Plan (cont.)

- 5th Asia/Oceania Meteorological Satellite Users' Conference
 - CMA will host the fifth AOMSUC in Shanghai in October of 2014.
 - The training event is planned at the time of the meeting like as AOMSUC-3 and AOMSUC-4, the RA II WIGOS Project to develop support for NMHSs in satellite data, products and training will cooperate in it with CMA.

- 3rd Meeting of the Coordinating Group of the RA II WIGOS Project
 - The third meeting of the Coordinating Group of the RA II WIGOS Project will be held in 2015 on the occasion of the sixth AOMSUC in Japan.
 - The training event using new satellite data will be also planned by JMA on the occasion of the Conference.



Thank You

