Korea Meteorological Administration (KMA)
National Meteorological Satellite Center (NMSC)

Accomplishments, Current Status and Work Plan

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

The 1st Joint Meeting of RA II WIGOS Project and RA V TT-SU for RA II and RA V NMHSs
Jakarta, Indonesia 11 October 2018

History of the Project

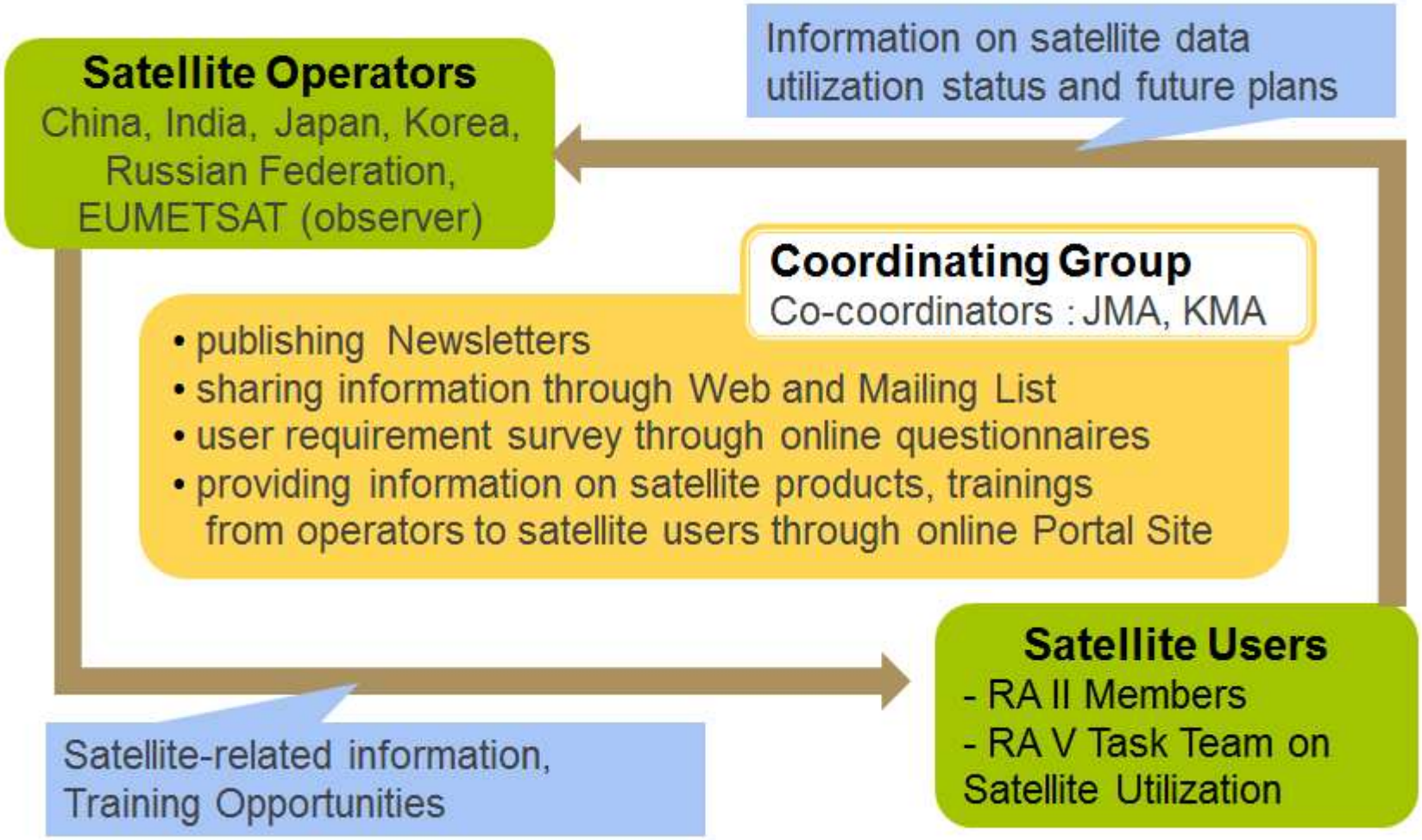
Pilot Project to Develop Support for NMHSs in Satellite Data, Products and Training (Adopted at RA II-14, 2008)

RA II WIGOS Project to Develop Support for NMHSs in Satellite Data, Products and Training from 2013
(Decided at RA II-15, 2012)

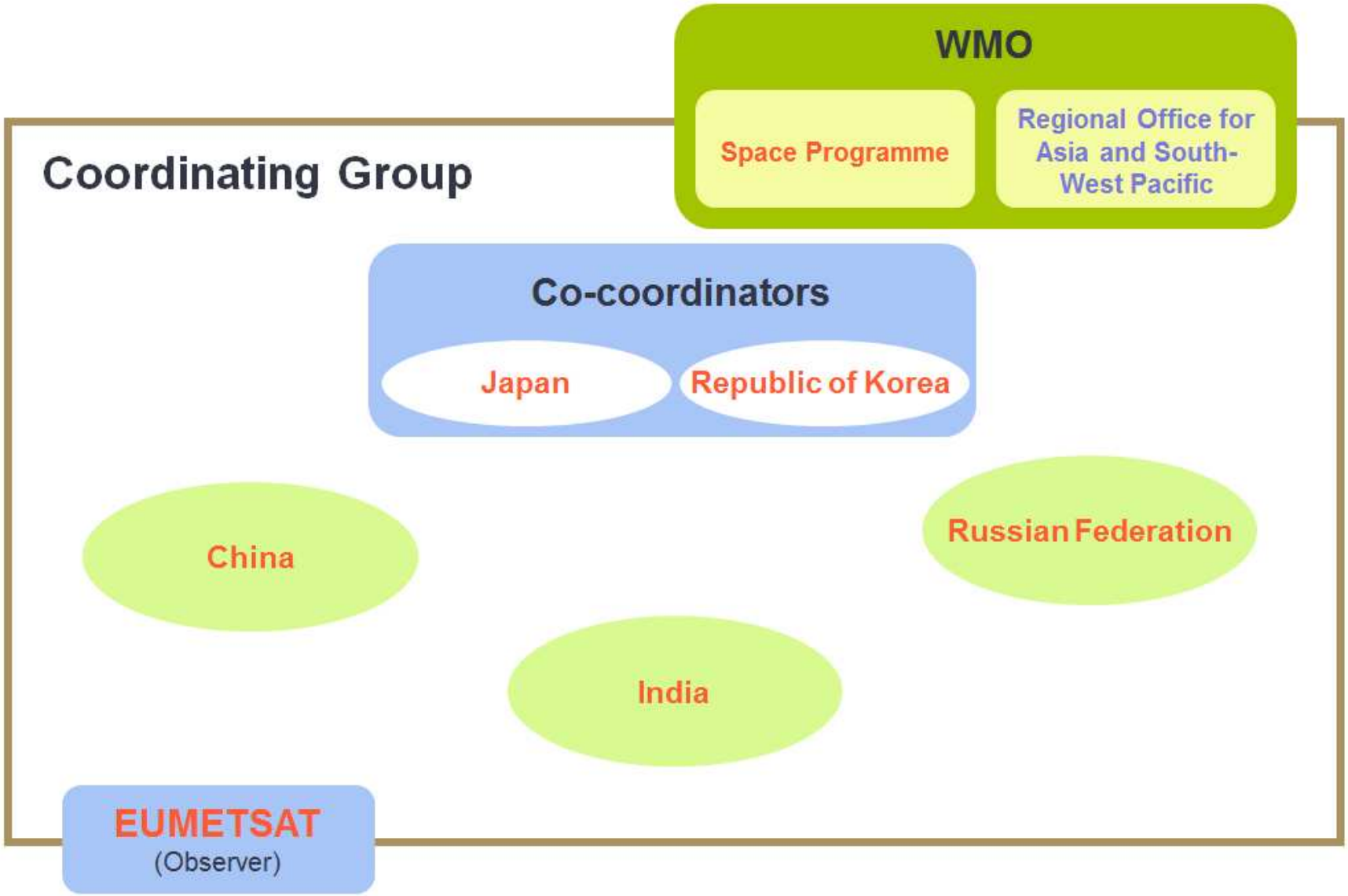
The plan in 2017-2020 of the WIGOS Project

Included in the Regional WIGOS Implementation Plan 2017 – 2020 decided at RA II-16, Feb. 2017.

Mechanism of the Project



Coordinating Group



Accomplishments of the Project 2013-2017 (1/2)

1. Support for the preparation of satellite data users in relation to the new generation of geostationary meteorological satellites

2. Establishment of close coordination between the RA II WIGOS Project and the RA-V Task Team on Satellite Utilization

3. Establishment of the new webpage of the RA II WIGOS Project (hosted by JMA)

Accomplishments of the Project 2013-2017 (2/2)

4. Convening the series of Asia/Oceania Meteorological Satellite Users' Conference (AOMSUC)
   - 4th conference, held in Melbourne, Australia in October 2013
   - 5th conference, held in Shanghai, China in October 2014
   - 6th conference, held in Tokyo, Japan in November 2015
   - 7th conference, held in Incheon, Korea in October 2016
   - 8th conference, held in Vladivostok, Russia in October 2017
   - 9th conference, held in Jakarta, Indonesia in October 2018

5. Conducting the trainings and questionnaires on the utilization of new generation of geostationary meteorological satellites through the AOMSUCs

6. Quarterly newsletters for RA II Members

Newsletters

- Newsletters are aimed at sharing the latest satellite-related information :
  - Information on access to satellite imagery, data and products including application products
  - Training activities currently available or planned
  - News on meteorological satellites
  - News on new services

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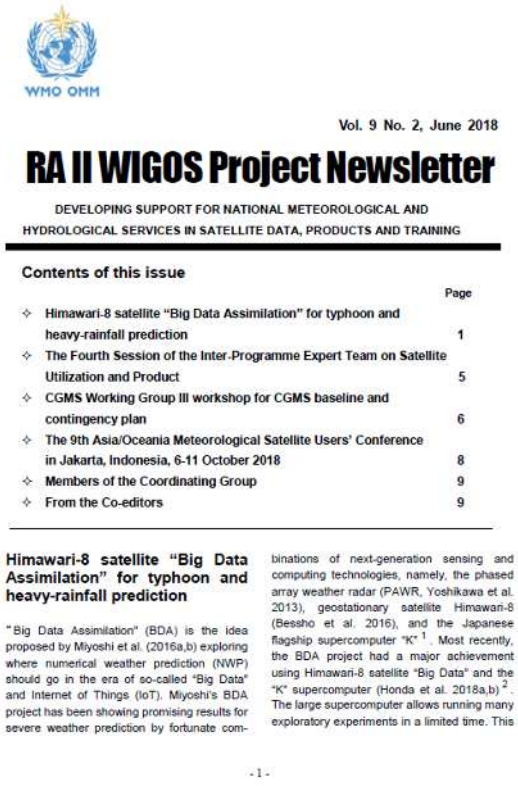


WMO OMM

Vol. 9 No. 2, June 2018

RA II WIGOS Project Newsletter

DEVELOPING SUPPORT FOR NATIONAL METEOROLOGICAL AND HYDROLOGICAL SERVICES IN SATELLITE DATA, PRODUCTS AND TRAINING

Contents of this issue

Himawari-8 satellite "Big Data Assimilation" for typhoon and heavy-rainfall prediction

"Big Data Assimilation" (BDA) is the idea proposed by Miyoshi et al. (2016a,b) exploring where numerical weather prediction (NWP) should go in the era of so-called "Big Data" and Internet of Things (IoT). Miyoshi's BDA project has been showing promising results for severe weather prediction by fortunate combinations of next-generation sensing and computing technologies, namely, the phased array weather radar (PAWR, Yoshikawa et al. 2013), geostationary satellite Himawari-8 (Bessho et al. 2016), and the Japanese flagship supercomputer "K" [1]. Most recently, the BDA project had a major achievement using Himawari-8 satellite "Big Data" and the "K" supercomputer (Honda et al. 2018a,b) [2]. The large supercomputer allows running many exploratory experiments in a limited time. This

-1-

So far 44 issues since 2009

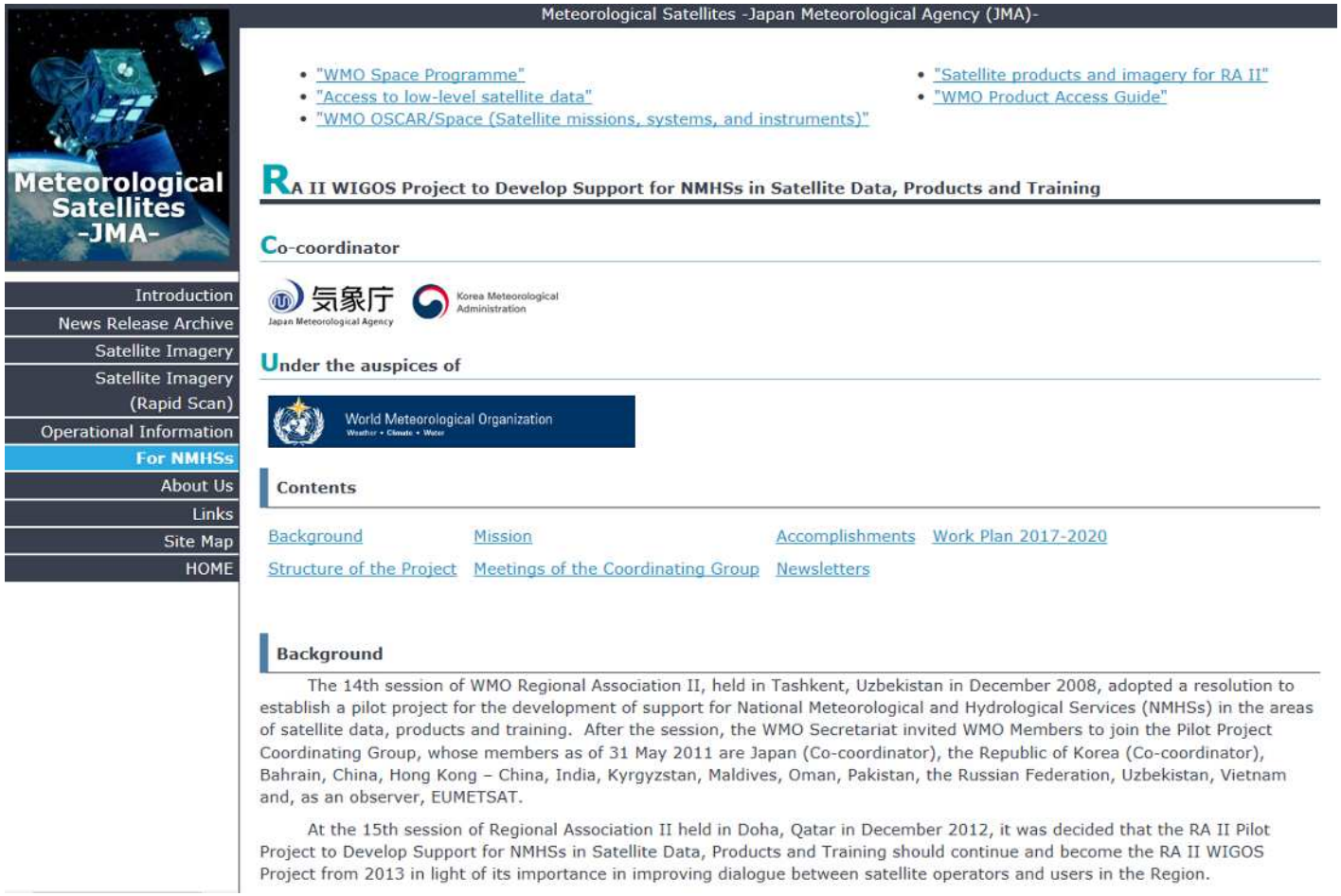
Coordinating Group Meetings

- 1st Meeting , Tokyo, Japan (Feb. 2011)
- 2nd Meeting, Jeju Island, Republic of Korea (Oct. 2012)
- 3rd Meeting, Tokyo, Japan (Nov. 2015)
- 4th Meeting, Songdo(Incheon), Republic of Korea (Oct. 2016)
- Intersessional Web Meeting 2017 (27 Jul. 2017)
- 5th Meeting, Vladivostok, Russia (Oct. 2017)
- Web Meeting (13 times) 2018 for Questionnaire and agenda

Website of the Project

RA II WIGOS Project NEW webpage

http://www.jma.go.jp/jma/jma-eng/satellite/ra2wigosproject/ra2wigosproject-intro_en_jma.html



Work Plan 2018-2020 (1/2)

- To facilitate the timely provision of satellite-related information by satellite operator to NMHSs in RA II including developing countries via the project web page, newsletters, user's conference, etc., aligning with VLab activities to optimize assistance to NMHSs in RA II and coordinating training activities on use of satellite data/products;

- To identify requirements and current and planned utilization capabilities of NMHSs in RA II regarding data and products of Earth observation satellites including new generation geostationary meteorological satellites in support of their weather services, including forecasts and warnings, providing a gap analysis in which the capabilities are matched against the requirements so as to develop an action plan to close the gap;

Work Plan 2018-2020 (2/2)

- To strengthen capabilities of NMHSs in RA II to use the routine images and derived products from the Earth observation satellites including new generation geostationary meteorological satellites, Himawari-8/9, FY-4 series and GK-2A satellites, by user training and guidance on upgrading processing software/hardware, information and tools; (LEO satellites?)

- (i) To develop/expand a protocol for NMHSs of the countries in the Region to request event-driven rapid scan imagery; and
  (ii) to assist NMHSs to utilize rapid scan data in support of DRR in response to their requests;

- To continue the issuance of the quarterly newsletters.

Thank you!

Korea Meteorological Administration (KMA)
National Meteorological Satellite Center (NMSC)