

Vol. 2 No. 4, August 2011

RA II Pilot Project Newsletter

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

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Implementation of RA II Pilot Project portal site demonstration system

Usable information on the utilization of satellite data such as which satellite provides what kinds of products for RA II area has not fully been shared in common with users .

To make it much easier to access to satellite data and products such as satellite imagery in RA II area, co-coordinators of RA II Pilot Project implemented "portal site" on WMO Space Programme web page. The portal site is designed to facilitate sharing information on satellite datasets and products between Members of RA II Pilot Project.

It is also a response to Second-Phase Action Plan (September 2010 – August 2011);

Enhancement of Pilot Project web pages on the WMO Space Programme (WMOSP) website (hosted by WMOSP).

There is a link to this portal site on "The RA-II Pilot Project" webpage as shown in the picture 1. Click "Links to RA-II Satellite Data and Products" and you will jump to the webpage shown in the picture 2.

You can search satellite imagery from format names on table "Imagery of Related Meteorological Satellites" and satellite products from product names on table "Information for Major Satellite Products."

Since the precipitation product is the most wanted product from satellite users, there is a special section that provides catalogues and you can find the detailed information of the

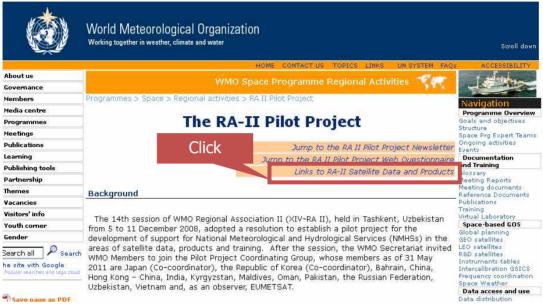
product through them.

For satellite users who want to know what kind of education and training is ongoing, there is this section; "Education and Training in Satellite Meteorology."

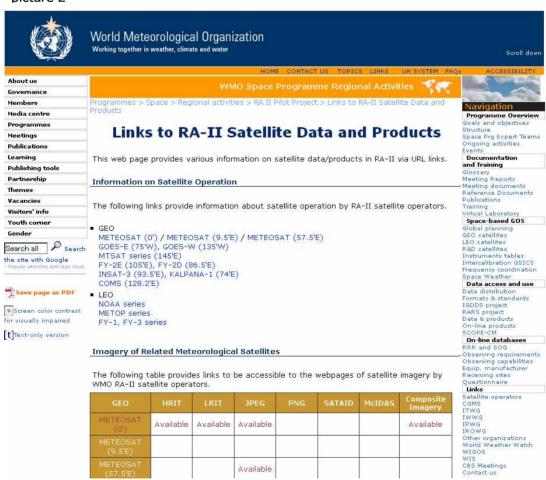
All the RA-II Members are kindly requested to provide feedback on the function and usability of the portal site.

(Keiko YAMAMOTO, JMA)

Picture 1



picture 2



Utilizations of COMS data in Numerical Weather Prediction

COMS was launched on June 27, 2010. and 10 products among the total of 16 baseline products of COMS Data Processing System (CMDPS) have been in operation since April 1, 2011. The operational products include atmosphere motion vector (AMV), cloud detection (CLD), cloud analysis (CLA), cloud temperature and pressure (CTTP), fog detection (FOG), aerosol index (AI), Rainfall intensity (RI), sea surface temperature (SST). upper tropospheric humidity (UTH), and outgoing longwave radiation (OLR). Then, the rest of the other products, such as, clear sky radiance (CSR), land surface temperature (LST), total precipitable water (TPW), snow and sea ice detection (SSI), aerosol optical depth (AOD), and insolation (INS), will be operationally produced after fine tuning of algorithm parameters and validation of products quality.

Among the products from COMS data, AMV has been tested in data assimilation for NWP (KMA currently operates UM from Met Office). First, COMS AMVs for sampled period from 23rd December 2010 to 7th January 2011 during the commissioning period were generated, and the vectors were validated with rawinsonde and NWP. Then, the impact of COMS AMVs in the data assimilation process of UM was compared with MTSAT AMV from JMA. The results from first experiment show COMS AMV module works properly and the impact can affect Southern Hemispehre as well. Overall impact in Northern Hemisphere in June 2011 is almost neutral and slightly positive impacts over Asia and typhoon (MEARI) passing through NE Asia are shown.

KMA/NMSC also generates BUFR format of COMS AMVs for KMA UM, and the data will start to be assimilated in operation from the end of August in 2011 (Figure 1 shows Satwind data for KMA UM, and blue dots represent COMS AMV). Then, the BUFR format of COMS AMVs will be serviced through GTS from the end of 2011. Meanwhile, KMA/NMSC also generated BUFR format of COMS CSR for the period of one month, from 11st July to 10th August in 2011, and the data are undergoing tests for UM. However, COMS CSR product hasn't been serviced in operation, so that the operational use in NWP will be started in 2012.

(Jung-Rim LEE, KMA)

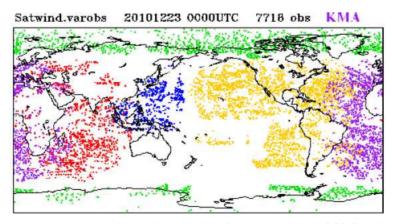


Figure 1. The spatial distribution of assimilated AMVs. Blue dots indicate COMS AMVs (QI>0.85).

Third-phase Action Plan of

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

(Third phase: September 2011 – August 2012)

31 August 2011 Pilot Project Coordinating Group

(1) Continuative Issuance of Quarterly newsletters for RA II Members

The contents will include:

- Access to satellite imagery, data and products including application products
- Training activities currently available or to be available in the future
- News on current status and future meteorological satellites
- News on new services of satellite imagery, data and their format, products etc
- Research work on satellite imagery, products, and their applications to various areas
- Brief progress reports on the pilot project
- Introduction to the activities of other RAs and WMO VL activities

(2) Enhancement of Pilot Project Web Pages on the WMO Space Programme (WMOSP) website hosted by WMOSP

Web pages will include:

- Information on access to satellite imagery, data and products as well as training
- Newsletter archives
- RA II Pilot Project Questionnaire
- Meeting report

(3) Enhancement of a mailing list for RA II Members and another one for Coordinating Group members (by April 2012)

- More effective collection and share of opinions on the newsletter, requirements, etc. from RA II Members

(4) Identification of requirements from RA II Members (by April 2012)

- Conducting of a survey on satellite data utilization by the web-based RA II Pilot Project questionnaire system among RA II Members on the RA II Pilot Project web pages with a computerized answer sheet
- Sharing of questionnaire results through the web pages
- Identification of requirements from RA II Members through the questionnaire system

(5) Alignment of pilot project activities with Virtual Lab activities to optimize assistance to NMHSs in RA II (by August 2011)

- Ongoing liaison with the WMO Secretariat and the VL Secretariat (EUMETSAT) in order to optimize assistance to NMHSs
- Sharing training materials to avoid duplication of effort and facilitating training activities

(6) Planning of the 2nd Meeting of the Coordinating Group of the RA II Pilot Project to be held in 2012

- KMA will host the 2nd Meeting of CG of RA II PP in the 4th quarter of 2012
- RA-II PP training workshop/users meeting as joint meeting
- (7) Creation of the fourth-phase working plan (by August 2012)

Members of the Coordinating Group

JAPAN (Co-coordinator)

Mr Toshiyuki KURINO

Senior Coordinator for Meteorological Satellite Systems, Satellite Program Division,

Observations Department

Japan Meteorological Agency

REPUBLIC OF KOREA (Co-coordinator)

Dr Dohyeong KIM Senior Researcher

Satellite Planning Division,

National Meteorological Satellite Center

Korea Meteorological Administration

BAHRAIN

Mr Adel MOHAMMED

Supervisor, Meteorology Operation

Bahrain Meteorological Services

Civil Aviation Affairs

Meteorological Directorate

CHINA

Mr Xiang FANG

Director, Remote Sensing Data Application National Satellite Meteorological Center

China Meteorological Administration

HONG KONG, CHINA

Dr W T Wong

Senior Scientific Officer, Radar & Satellite

Meteorology Division

Hong Kong Observatory

INDIA

Mr A. K. SHARMA

Director, Deputy Director General of Meteorology

India Meteorological Department

KYRGYZSTAN

Mr Mahkbuba KASYMOVA

Head, Department of Weather Forecasting

Kyrgyzhydromet

MALDIVES

Mr Ali SHAREEF

Deputy Director General

Maldives Meteorological Service

OMAN

Mr Humaid AL-BADI

Chief, Remote Sensing and Studies Section

Oman Department of Meteorology

PAKISTAN

Mr Muhammad ASLAM

Senior Meteorologist

Allama Igbal International Airport

Pakistan Meteorological Department

Mr Zubair Ahmad SIDDIQUI

Deputy Director/Senior Meteorologist

Institute of Meteorology & Geophysics

Pakistan Meteorological Department

RUSSIAN FEDERATION

Ms Tatiana BOURTSEVA

Chief, Information Department

ROSHYDROMET

Dr Oleg POKROVSKIY

Principal Scientist, Main Geophysical

Observatory

ROSHYDROMET

UZBEKISTAN

Mr Sergey Klimov

Acting Chief, Hydrometeorological Service

UZHYDROMET

VIETNAM

Ms Thi Phuong Thao NGUYEN

Researcher, Research & Development Division

National Center for Hydrometeorological

Forecasting

Ministry of Natural Resources and Environment

of Viet Nam

EUMETSAT (OBSERVER)

Dr Volker GAERTNER

Head of User Services Division

EUMETSAT

Dr Kenneth HOLMLUND

Head of Meteorological Operations Division

EUMETSAT

From the Co-editors

The co-editors invite contributions to the newsletter. Although it is assumed that the major contributors for the time being will be satellite operators, we also welcome articles (short contributions of less than a page are fine) from all RA II Members, regardless of whether they are registered with the WMO Secretariat as members of the Pilot Project Coordinating Group. We look forward to receiving your contributions to the newsletter.

(Toshiyuki KURINO, JMA, and Dohyeong KIM, KMA)

RA II Pilot Project Mailing Lists

Two mailing lists for discussion on the pilot project will soon be set up using the Google Groups service, and will be implemented either through the Google Groups web interface or by e-mail.

One list is for Pilot Project Coordinating Group members who are already registered with the WMO's Regional Office for Asia and the South-West Pacific.

Group name: ra2pp sat cg

Group home page:

http://groups.google.com/group/ra2pp_sat_cg

Group email address:

ra2pp_sat_cg@googlegroups.com

The other list is for RA II Members in general.

Group name: ra2pp_sat **Group home page:**

http://groups.google.com/group/ra2pp_sat

Group email address:

ra2pp sat@googlegroups.com

RA II Pilot Project Home Page

http://www.wmo.int/pages/prog/sat/RAII-Pilot Project.html

Editorials and Inquiries

Toshiyuki KURINO (Mr.)

Senior Coordinator for Meteorological Satellite

Systems

Satellite Program Division

Observations Department

Japan Meteorological Agency

1-3-4 Otemachi, Chiyoda-ku

Tokyo 100-8122, Japan

Tel: +81-3-3212-8677 Fax: +81-3-3217-1036

Email: tkurino@met.kishou.go.jp

Dohyeong KIM (Dr.)

Senior Researcher

Satellite Planning Division,

National Meteorological Satellite Center

Korea Meteorological Administration

636-10, Gwanghyewon, Jincheon,

Chungbuk, 365-831, Republic of Korea

Tel: +82-70-7850-5705

Fax: +82-43-717-2010

Email: dkim@kma.go.kr

(Editor-in-chief of this issue: Dohyeong KIM)