

WORLD METEOROLOGICAL ORGANIZATION

ET-SUP-8/Doc. 13.2
(3.IV.2014)

COMMISSION FOR BASIC SYSTEMS
OPEN PROGRAMME AREA GROUP ON INTEGRATED OBSERVING SYSTEMS

EXPERT TEAM ON SATELLITE UTILIZATION AND PRODUCTS

ITEM: 13

EIGHTH SESSION

GENEVA, SWITZERLAND, 14-17 APRIL 2014

Original: ENGLISH

Training on FY-3 product suite

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Summary and Purpose of Document

The document presents the training information of FY-3 satellite products and data, including the status and the application system of FY-3 satellite and the training situation.

ACTION PROPOSED

The eighth session is invited to take note of this document.

DISCUSSION

1. Status of FY-3 satellite

FY-3 is a new polar-orbiting, sun-synchronous meteorological satellite series planned to cover the duration of 2008-2021. The first model FY-3A was launched in May 2008 and FY-3B was launched in November 2010. FY-3C was launched in September 2013 and will be in operation before flood season of 2014.

Compared with the FY-1 satellite, the FY-3 satellite is more capable in terms of the vertical temperature and humidity sounding, the ozone detection, the microwave, visible and infrared imaging. Future FY-3 models will include the atmospheric composition detection to support the greenhouse gases monitoring for climate change study.

In order to improve the FY-3 satellite data application, CMA has developed FY-3 Satellite Monitoring Analysis Remote-sensing Toolkit (SMART). SMART is a comprehensive application platform of FY-3 meteorological satellite for monitoring, data analysis and public service. It provides a professional remote sensing application platform for technicians engaged in remote sensing application of natural hazards and ecological environment monitoring.

The 1.0 version of the software, including national version and provincial version, has been formally released in June, 2013. So far, this system has been applied successfully in NSMC and provincial meteorological bureaus.

2. Training Actions

In order to improve the FY-3 satellite data application, CMA designs many training courses for domestic and foreign students.

There are four international training courses. Many students who come from more than 20 countries belonging to Asia, Oceania, Africa and North America attend these courses. Information on FY-3 satellite data, the principle and methods of satellite products and the application of satellite data are introduced in these training courses.

Table 1 outlines the information on international training courses in recent years

	Class	Date	Students
1	Specialized Course For BMKG Technicians	22, Sep., 2012 --- 28, Sep., 2012	Asia(5)
2	Tentative Schedule of Training Seminar on Application of Meteorological Satellite in Disaster Risk Reduction and Environment	2, Nov., 2012 --- 22, Nov., 2012	Asia(6), Oceania (5), Africa(3) North America (1)
3	6th International Training Course on Satellite Met.	22, Oct., 2012 --- 1,Nov., 2012	Asia(12), Europe(1), Africa(10),
4	7th International Training Course on Satellite Met.	3, Sep., 2013 --- 13, Sep., 2013	Asia(6) Africa(7)

The domestic training courses are mainly about FY-3 Satellite Monitoring Analysis Remote-sensing Toolkit (SMART). Three nationwide trainings and four provincial-level trainings have been carried out and the software were set up and running in NSMC and piloted in 32 provincial meteorological departments.

3. Training Plan

In the future, CMA plans to promote the application of FY-3 data through two ways: one is to set up more training courses, the other is to provide an application software.

The 8th International Training Course on Satellite will be hold in 2014, and some special training courses for domestic users will also be hold one by one.

The International version of SMART ,which can support the disaster monitoring, data analysis and public service, is being developed and will be issued all over the world,.