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Prepared by CNSA

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Discussed in Plenary

## **STATUS OF THE CURRENT CNSA EARTH OBSERVATION MISSIONS**

CGMS is informed of the status of the current China National Space Administration Earth Observation mission. It includes FY series satellites, CBERS series satellites, HY-1B satellites and Environment and Disaster Monitoring Small Satellite Constellation, FY-3A is launched on May 27, 2008, HJ-1A/B is launched on September 6, 2008. There are HY-1B, CBERS02, CBERS02B, FY-3A and HJ-1A, HJ-1B operating in orbit. This paper will be introduced the status of satellites of CNSA in orbit.

## **STATUS OF THE CURRENT CNSA EARTH OBSERVATION MISSIONS**

### **1. -INTRODUCTION**

CNSA has been building up an earth observation system for long-term stable operation. It includes FY-series satellites, Oceanic series satellites and CBERS series satellites. CNSA has actively sought the cooperation of them on Earth observation program and data sharing cooperation. The current Earth observation satellites in orbit include FY-1D, FY-2C, FY-2D, CBERS02, CBERS02B, HY-1B, FY-3A, HJ-1A, HJ-1B. We are trying to promote the operational applications of in-orbit satellite data. The status of the current CNSA earth observation missions is introduced in brief as follows:

### **2. -STATUS OF THE CBERS02/02B MISSIONS**

CBERS02 was launched on October 21st, 2003. Presently the satellite works normally with CCD camera in orbit, and on observation mission together with CBERS02B, and the revisiting cycle is shortened. CBERS02B was successful launched On September 19<sup>th</sup>, 2007, which equips CCD camera, WFI and High Resolution camera(HR). CBERS02B works well, and its data has been used for various users, it is realized in continuity and reliability of CBERS satellite series.

### **3. -STATUS OF THE HY-1B MISSION**

The main goal of HY-1 is to detect the oceanic resource environmental parameters, including chlorophyll concentration, suspended sediment concentration, and dissolved organic matter, pollutants, and sea surface temperature. It has owned an important role in developing and utilizing the oceanic bio-resources, constructing the harbor, monitoring the ocean pollution, investigating coastal resources and studying the global environmental changes in China. HY-1B was launched at Apr.11 2007. It has been working. Its status is introduced in CGMS35-cnsa-wp-03.

### **4. -STATUS OF THE HJ-1A/1B MISSION**

HJ-1 are the part of environment and disaster monitoring small satellite constellation. It is comprised of two optical satellites(HJ-1A/1B) and one S-band SAR satellite. HJ-1A/B is launched On SEP.06, 2008. The constellation (HJ-1 A AND HJ-1B) is

building on Oct.14, 2008, which has obtained 1-2 days revisit period with 30 meters resolution. They are working well, and their data quality and application are being evaluated.