

## **Preparatory activities for WRC-07**

This paper reports on JMA's preparatory activities for WRC-07, regarding radio frequency allocation to meteorological satellite service and earth exploration satellite service.

## **Preparatory activities for WRC-07**

### **1. Introduction**

The World Radiocommunication Conference (WRC-03) was held in Geneva, Switzerland from 9 June to 4 July 2003. The next WRC (WRC-07) and its Conference Preparatory Meeting (CPM) will be held in 2007. After WRC-03, JMA has attended relevant working group meetings of ITU-R and WMO in order to protect existing radio frequency bands and support proposals from relevant organs on necessary radio frequency bands for meteorological activities including the Meteorological Satellite Service (MetSat) and the Earth Exploration Satellite Service (EESS) for meteorological activities. This paper reports on JMA's preparatory activities for WRC-07 related to provisional agenda items of WRC-07 relevant to MetSat and EESS.

### **2. Review of provisional agenda items of WRC-07 relevant to MetSat and EESS**

#### **2.1 Agenda Item 1.2**

*“to consider allocations and regulatory issues related to the Earth Exploration-Satellite (passive) Service, Space Research (passive) Service and the Meteorological Satellite Service in accordance with Resolutions 746 (WRC-03) and 742 (WRC-03)”*

In this item, the participants will discuss radio frequency allocations for MetSat in the 18GHz bands and for the EESS (passive) and the Fixed and Mobile Services both in the 10.6-10.68GHz and 36-37GHz bands.

Regarding the proposed expanded 18GHz allocation, JMA will support the proposal by EUMETSAT to extend the current 18.1-18.3GHz geostationary meteorological satellites allocation in the space-to-Earth direction to 300MHz of contiguous spectrum. JMA believes that the expansion of the allocation in this radio frequency band will be beneficial to meteorological satellite activities. JMA will continue to call for support to the above bandwidth requirements up to 300MHz to the Japanese Telecommunication Administration, the Ministry of Internal Affairs and Communications (MIC), and will pay attention to the results of the ITU-R studies.

#### **2.2 Agenda Item 1.7**

*“to consider the results of ITU-R studies regarding sharing between the Mobile-satellite Service and the SRS (passive) in the band 1668 - 1668.4MHz, and between the Mobile-Satellite Service and the Mobile Service in the band 1668.4 - 1675MHz in accordance with Resolution 744 (WRC-03)”*

In this item, the participants will discuss frequency sharing between the Mobile-Satellite Service (MSS) and the Space Research Satellite (SRS) (passive) in the band 1668-1668.4MHz, and between the MSS and the Mobile Service (MS) in the band 1668.4-1675MHz.

JMA will continue to pay particular attention to the ITU-R's studies for radio frequency sharing between the MSS (Earth-to-space) and the MS in the 1668.4-1675MHz bands, because MTSAT-1R and MTSAT-2 use the 1672-1682MHz bands (space-to-Earth) to transmit raw data of the imager.

### **2.3 Agenda Item 1.20**

*“to consider the results of studies, and proposals for regulatory measures if appropriate regarding the protection of the EESS (passive) from unwanted emissions of active services in accordance with Resolution 738 (WRC-03)”*

In this item, protection of EESS (passive) from unwanted emissions of active services will be discussed. JMA will continue to call for protection of the service from unwanted emissions to the Japanese Telecommunication Administration, and will pay attention to the results of the ITU-R studies for regulations of unwanted emissions as a data user.

## **3. JMA activities for WRC-07**

### **3.1 WMO/CBS/SG-RFC meeting**

The fifth WMO/CBS/SG-RFC meeting was held in San Diego, California, USA from 2 to 5 March 2005. An expert of JMA attended this meeting, and exchanged views about the protection of radio frequency bands for the meteorological activities including the MetSat and space-borne remote sensing. In the meeting, the expert reported on its domestic preparatory activities toward WRC-07 and the Asia-Pacific Telecommunity (APT) meeting. JMA also expressed that it would continue to request the protection of radio frequency bands for the meteorological activities and EESS to the Japanese Telecommunication Administration.

### **3.2 APT meeting**

The Second meeting of the APT Conference Preparatory Group for WRC-07 (APG07-2) was held in Bangkok, Thailand from 28 February to 3 March 2005. In this meeting, provisional agenda items for WRC-07 were reviewed, although specific deliberation regarding joint proposal of APT to WRC-07 was not done yet. APT is in the stage of collecting information about the situation of activities of Inter-American Telecommunication Commission (CITEL) and European Conference of Postal and

Telecommunications Administrations (CEPT). The Third meeting (APG07-3) is scheduled to be held in Kuala Lumpur, Malaysia in February 2006.

JMA has continued to appeal for protection of radio frequency bands allocated to MetSat and EESS for meteorological activities to APT through Japanese Telecommunication Administration.

#### **4. Conclusion**

In order to protect the existing radio frequency bands of MetSat and EESS, JMA will also continue to request the Japanese Telecommunication Administration to protect the existing radio frequency bands of MetSat and EESS. JMA will continue to input the status of discussion in APT to CGMS members and to exchange information on radio frequency issues with CGMS members.