

~~Plan~~ **LAN on Multi-functional Transport Satellites ON MULTI-FUNCTIONAL TRANSPORT SATELLITES**

~~To~~ This paper reports on the schedule on the launch and the service commencement ~~plan on of the~~ Multi-functional Transport Satellites (MTSAT-1R/-2).

~~Also, to report t~~ The plan on for the MTSAT-1R/-2 operation and image data dissemination is described as well.

Plan on Multi-functional Transport Satellites ~~PLAN ON MULTI-FUNCTIONAL TRANSPORT SATELLITES~~

1. Launch Schedule of ~~AUNCH PLAN SCHEDULE ON OF~~ MTSAT-1R/-2

MTSAT-1R will be launched in the first quarter (winter) of 2004. The launch was postponed from the summer of 2003 due to the delay in the manufacturing process of the spacecraft. After the launch failure of MTSAT on 15 November 1999, the Japan Meteorological Agency (JMA) settled on a new plan to launch MTSAT-1R as a replacement of MTSAT and a follow-on MTSAT-2. The launch of MTSAT-1R, the successor to GMS-5, will be postponed from the summer of 2003 to the first quarter(winter) of 2004 due to the delay in the manufacturing process of the spacecraft.

The construction—manufacturing of MTSAT-2 has been progressing—proceeded satisfactorily in preparation for on schedule for the launch in the first quarter (winter) of 2005.

2. Service Commencement Plan on ~~ERVICE COMMENCEMENT PLAN ON~~ MTSAT-1R/-2

JMA will start operations of MTSAT-1R will be operated from in the spring of 2004 after the in-orbit test-test. The Mmeteorological mission of MTSAT-2 will be operated from be set stand-by operation in the geostationary orbit until the scheduled mission start in 2009-2009 after stand-by operation in a geostationary orbit.

3. Operation and Image Data Dissemination Plan ~~PERATION AND IMAGE DATA DISSEMINATION PLAN ON on~~ MTSAT-1R/-2

Image—The image data is disseminated to two types of stations, Medium-scale Data Utilization Station (MDUS), and Small-scale Data Utilization Station (SDUS). In conjunction with At the start of the service of MTSAT-1R, SDUS is to receive the Low Rate Information Transmission (LRIT) will be implemented as a digital data transmission measure for SDUS, as well as WEFAX. The image data will be disseminated by LRIT and WEFAX with the time-sharing manner by a time-sharing method. In At the same breathtime, MDUS is to receive the High Resolution Imager Data (HiRID) will be disseminated in spiteinstead of Stretched-VISSR (S-VISSR) for MDUS. The resolution of Image data of HiRID have is 5km (1.25km) resolution at the sub-satellite point, and the 10bit (6bit) quantization levels is 10bit (6bit) for IR (VIS) channels. The format of HiRID is upper compatible to that of Streeched-VISSR of GMS-5.

Considering wide popularization and rapid development of the Internet technology, particularly in a recent few years and on, JMA has decided to confine the The broadcasting service from thewith MTSAT series satellites including LRIT and HRIT will be confined exclusively to the dissemination of Earth image data, and to make the best use of the Internet (RSMC Data Serving System of JMA) for distribution of the other meteorological data such as GPs.

The dissemination of WEFAX for SDUS will be terminated ceased in March 2005, but at

At the same time, the High Rate Information Transmission (HRIT) ~~in addition to HiRID~~ will ~~be~~ started ~~in addition to HiRID~~ ~~by~~ ~~with~~ a time-sharing ~~method~~ ~~manner~~ in order to disseminate image data ~~at~~ ~~in~~ original resolutions (4km for IR and 1km for VIS) and ~~at~~ ~~original~~ quantization levels to MDUS. HiRID will be terminated when the ~~Meteorological meteorological service mission~~ of MTSAT-2 will ~~start~~ ~~start~~.

The launch, operation and dissemination plan on MTSAT-1R/-2 are shown in the Attachment.

