CGMS-XXXI JMA -WP-11 —Prepared by JMAJAPAN

Agenda Item: V/1.1

——Discussed in Working Group V

## Backup Dissemination of High-resolution Data for NMHSsBackupdissemination of high-resolution data for NMHSs

This paper reports on JMA introduces the Internet dissemination of high-resolution image data for NMHSs as an alternative measure to the GMS-5 direct dissemination. the backup dissemination of high-resolution data for NMHSsusers via the Internet in case of malfunction of GMS-5.

## Backup **<u>D</u>d**issemination of <u>**Hh**</u>igh-resolution <u>**Dd**</u>ata for NMHSs</u>

JMA had broadcasted<u>disseminated high\_high</u>-resolution <u>satellite observation</u> data of Stretched-VISSR (S-VISSR) to Medium-scale Data Utilization Station (MDUS) using the relay function of GMS-5. <u>Since GMS-5 has-had</u> been operated beyond its designed lifetime and its fuel for the <u>North-South</u> maneuvering of north-southward movement-hasd run short, the maneuvering has been was stopped from<u>discontinued in</u> October 2001. <u>After thenAs the</u> result, the North-South inclination of the satellite orbit has continuously increased and the reception of S-VISSR signals at MDUSs that didn't equip antenna-tracking function has become gradually difficultbecause of the increasing of the north-south inclination of a satellite orbit, the difficulty in receiving S-VISSR signal has arisen sometimes at MDUSs without antenna tracking function.

In considering such athe circumstance, JMA started S-VISSR data dissemination service with Internet/FTP server for the National Meteorological and Hydrological Services (NMHS) via the Internet on 2 December 2, 2002 in addition to the GMS-5 direct dissemination. On 22 May 2003It had been operated parallel with S-VISSR data dissemination via GMS-5. After, the backup of GMS-5 by with GOES-9 started on May 22, 2003, and S-VISSR data dissemination via GMS-5 was terminated. At the same time, the S-VISSR data on the server was switched to that generated from GVAR data observed by GOES-9, and S-VISSR data dissemination service through the Internet has been taken over. The Internet dissemination of S-VISSR data willIt'll be continued until the initiation of the MTSAT-1R normal operation.

In this the service, VISSR data observed by GMS-5 or GVAR data observed by GOES-9, previously VISSR data observed by GMS-5, received at Meteorological Satellite Center (MSC) has biseen processed and converted into S-VISSR data format and at first. Then the data in S-VISSR data format has been posted on thea Regional Specialized Meteorological Center (RSMC) dataFTP server of JMA. \_Due to the limitation of the Internet traffic capacityIn order to keep sufficient performance of the server, only the IR-1\* channel data has been provided is made available, namely, the value of . The other channels (IR-2, IR-<u>3\*\* and Visible channels) data have not been handled and '0' is has been put filled in those</u> the part of IR-2, IR-3\*\* and VIS of the S-VISSR data, and the data is compressed into a smaller file before posted on the server. For the same reason, users are limited to only NMHSs registered by JMA. this service has been limited tofor only one station for the NMHS of individual country among MDUS users. Each The registered NMHSs are able to ean-access the S-VISSR data on the server through the Internet using a-the password and User Identification (UID) which were assigned by JMA to the registered NHMSs beforehand. \_The following figure below shows the concept of the S-VISSR data dissemination via the Internet.

\* \*\* IR-1: 10.5-11.5, IR-2: 11.5-12.5, IR-3: 6.5-7.0 (unit: micrometer)

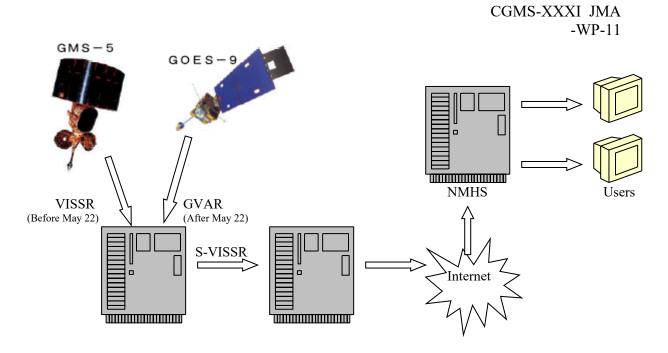


Figure.1 AFigure.1 A conceptual figure of S-VISSR data dissemination via the Internet