

Prepared by KMA
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COMS DATA DISSEMINATION PLAN

This document reports the plan of COMS MI data dissemination for users.

* *COMS* : *Communication, Ocean, and Meteorological Satellite*

* *MI* : *Meteorological Imager*

COMS Data Dissemination Plan

1 COMS MI Observation Plan

The Meteorological Imager of COMS (Communication, Ocean, and Meteorological Satellite) is planned to be in operation, according to two observational modes, as shown in Table 1. Figure 1 shows the COMS observation area and time schedule graphically.

Table 1. COMS MI Observation Modes

Observation Mode	Observation Area		Observation Interval
Normal Mode	Full Disk	Full earth disk (FD)	Every 3 hours
	Regional area	Asia and Pacific in Northern Hemisphere (APNH)	Every 30 min.
		Extended Northern Hemisphere (ENH)	Every 30 min.
		Limited Southern Hemisphere (LSH)	Every 30 min.
Special Observation Mode	Local area	1000km x 1000km	In case of severe weather

The full earth disk will be observed every 3 hours, and three different regional areas will be done every 30 minutes between the full-disk observations. In case severe weather occurring in and/or approaching to the Korean peninsula, special observation mission will be given, for the interested local area approximately every 10 minutes.

COMS Meteorological Data Processing System (CMDPS) are under development by the National Institute of Meteorological Research/KMA. The system will generate up to 16 baseline meteorological products, including atmospheric motion vector, cloud distribution, Asian dust, fog, etc.

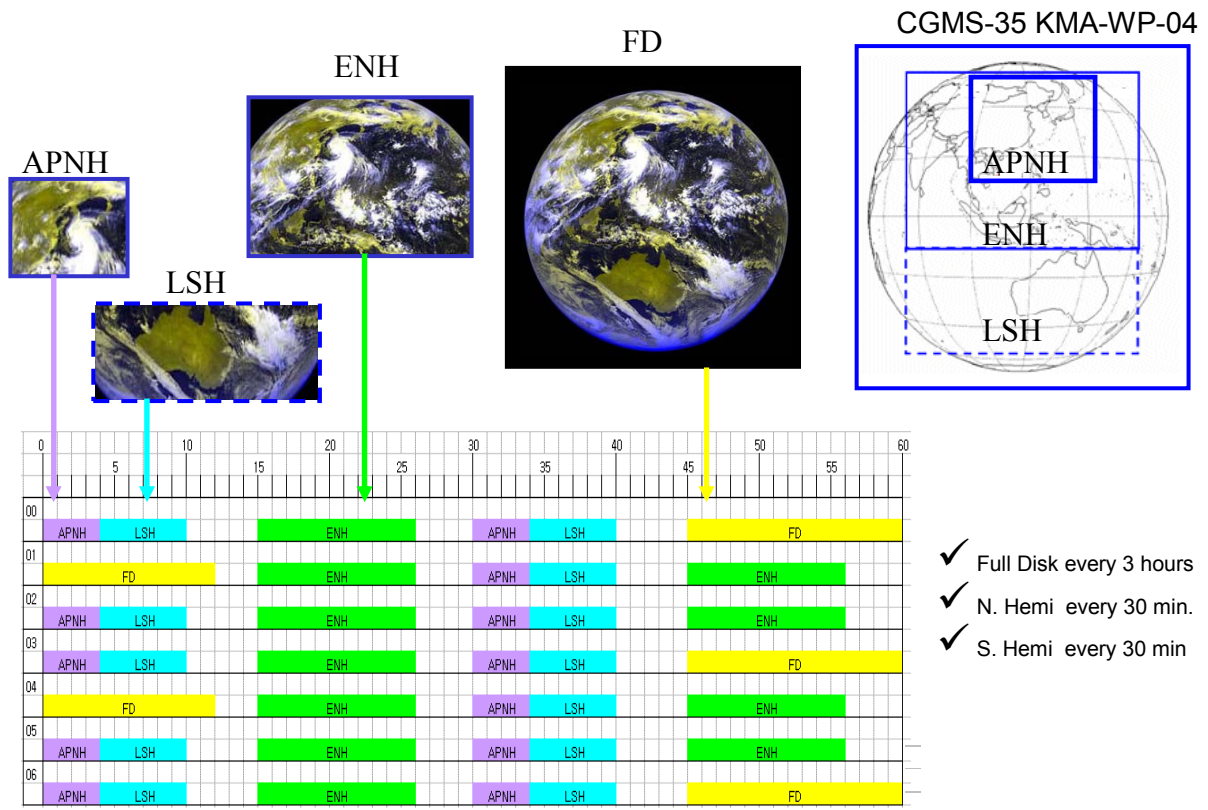


Fig. 1. Time schedule and corresponding area of COMS MI observation mode.

2 COMS Meteorological Data Dissemination Plan

COMS image will be broadcast in HRIT (High Rate Information Transmission) and LRIT (Low Rate Information Transmission) format. Additional meteorological data, such as atmospheric motion vectors, typhoon information, and NWP output will be added in LRIT service. The HRIT/LRIT data will be distributed worldwide within 15 minutes from the end of each observation.

The five channel COMS imagery data will be open on the internet in a real-time basis, as well. COMS meteorological products as well as images will be available via landline. Besides, authorized users can access archived data through a web-based data service system. The data shall be navigated and calibrated, prior to dissemination. The information on the COMS operation, product generation, and the quality of data will be notified in a timely manner.