

COMS DATA DISSEMINATION PLAN

This documents reports on 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

For the meteorological observation using COMS MI (Communication, Ocean, and Meteorological Satellite, Meteorological Imager), three modes might be performed as followings (for example).

Table 1. COMS MI Observation Modes.

Observation Mode	Observation Area	Observation Interval
Full Disk Mode	Full earth disk	Every 3 hour
Regional Mode	Asia and Pacific in Northern Hemisphere	Every 30 min.
	Extended Northern Hemisphere	Every 30 min.
	Limited Southern Hemisphere	Every 30 min.
Local Mode	1000km x 1000km	Every 10 min. (Severe Weahter case)

For the full disk mode it will be observed at every 3 hour, and for different three regional modes, it will be performed at every 30 minute respectively. In the case of severe weather, the local observation mode would be performed nearly at every 10 minute.

For meteorological application of data, 16 products (Level 2) such as cloud motion wind, cloud distribution, Asian Dust, fog, etc. are under development by Korea Meteorological Research Institute/KMA using MI observation data. Those data are used for weather forecasters as well as the inputs of NWP model.

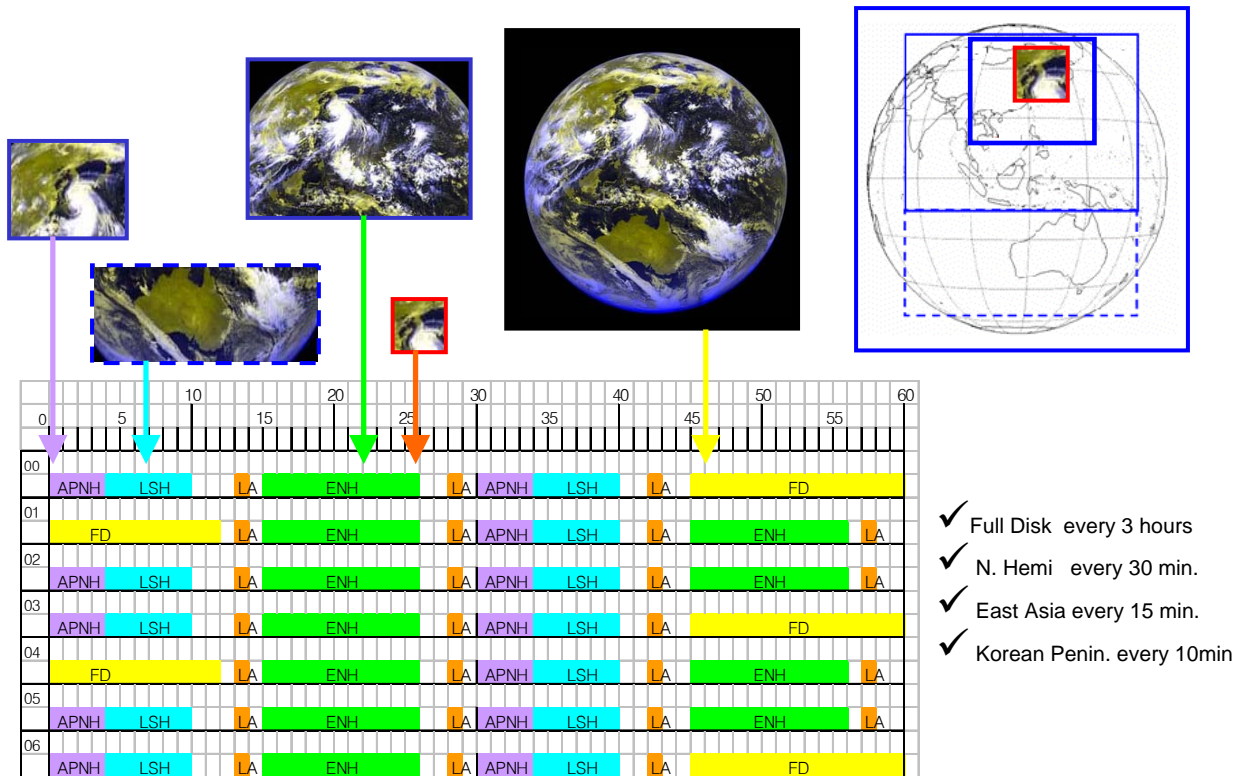


Fig. 1. Time Schedule and corresponding area of COMS MI observation modes.

2 Data Dissemination Plan

The observation data will be disseminated via an L-band (1695.4-1692.14 MHz) transmitting antenna in HRIT (High Rate Information Transmission) and LRIT (Low Rate Information Transmission) format. In case of LRIT, other additional data including NWP and Level 2 might be serviced for user as well as the image data.

Basically, the HRIT/LRIT data will be distributed to the users within 15 minute from the end of each observation. An example of dissemination schedule is shown the following figure, in case of lossy HRIT/LRIT data transmission.

Both domestic and foreign users can receive the HRIT/LRIT data using MDUS (Medium-scale Data Utilization Station) and SDUS (Small-scale Data Utilization Station).

KMA has the plan to disseminate COMS data via internet also using website (it would be implemented by KMA within 2009) in real time or non-real time bases.

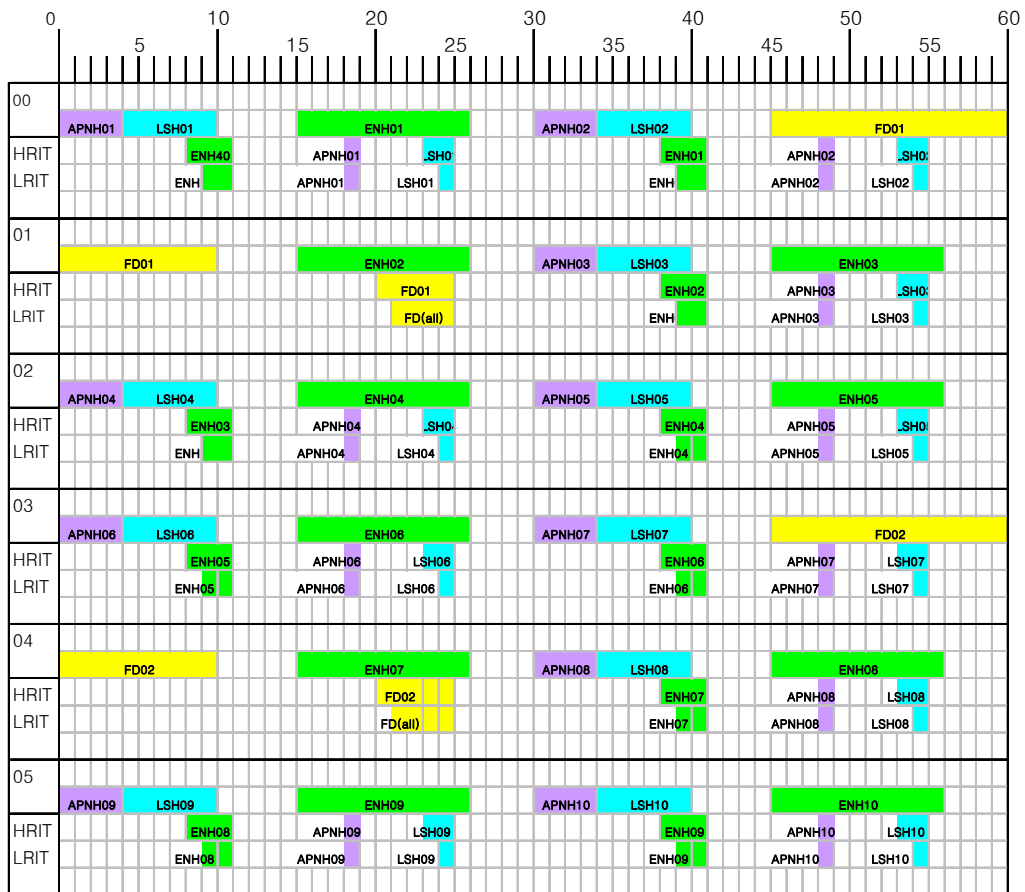


Fig. 2. Time Schedule of COMS data dissemination for HRIT/LRIT(Lossy).