



CGMS-35, CMA-WP-10  
Prepared by CMA  
Agenda Item: IV/3  
Discussed in WGIV

#### Summary of the Working Paper.

CMA informs CGMS that on September 1, 2007, exchange of satellite data through GTS initially started between CMA and EUMETSAT according to the bilateral arrangement between the two organizations. CMA-to-EUMETSAT data mainly contains FY-2C products of 6.3GB daily amount; during the period the satellite observation is intensified, data transmission is increased to 10.6GB on daily basis. EUMETSAT-to-CMA data include Metop level-two products, MSG satellite data. CMA has plan to rebroadcast these data to domestic users through FengyunCast system with technical measures to ensure the proper use of the data.

## **Status of Satellite Data Exchange with EUMETSAT through GTS**

According to bilateral arrangement between EUMETSAT and CMA, on September 1, 2007, exchange of satellite data has formally started between the two organizations through GTS.

### **1. CMA Data to EUMETSAT**

At present, CMA provides EUMETSAT 11 products of FY-2C satellite (for details refer to the CMA to EUMETSAT Data List). The data amount is 6.3GB every day. In the period the satellite operating in intensified observations, the data amount is 10.6GB daily. The format of transferred data has been sent to EUMETSAT.

Because the 220MB nominal full-disc file is sizeable, at the requirement of EUMETSAT, the file shall be segmented at CMA before being transmitted to EUMETSAT.

### **2. EUMETSAT Data received by CMA**

Metop level-two products: ATOVS, ASCAT (SAF).

MSG satellite data: MSG MPEF products, FSD data (GOES and MTSAT)

### **3. Data Re-transmission**

CMA plans to rebroadcast the EUMETSAT data through FENGYUNCast system to the domestic users with agreement of EUMETSAT and take technical measures to ensure the proper use of the data.



**CMA to EUMETSAT Data List**

No.	Product	Range	Resolution	Times /day	File name	Hour (UTC)	Data amount/image (MB)
1	FY-2C Full-Disc nominal image		VIS: 1.25KM IR1: 5KM IR2: 5KM IR3: 5KM WV: 5KM	24	FY2C_FDI_ALL_NOM_20070730_2330.hdf	Hour	220
	FY-2C full-disc nominal cloud wind image		VIS: 1.25KM IR1: 5KM IR2: 5KM IR3: 5KM WV: 5KM	4 23: 30、 05: 30 11: 30 17: 30	FY2C_FDI_ALL_NOM_20070730_2330.hdf	Half hour	220
	FY-2C north hemispheric nominal image ( June- August intensified observations)		VIS: 1.25KM IR1: 5KM IR2: 5KM IR3: 5KM WV: 5KM	20	FY2C_FDI_ALL_NOM_20070730_2330.hdf	Hour +10min	214
2	AMV	50°N-50°S 55°E-155°E	1°x1°	4	TWDMYYGg.AWX TWWMYGg.AWX	01:00,07:00 13:00,19:00	0.3



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3	Rainfall Estimates	50°N-0°N 55°E-155°E	0.1°x0.1°	4	TEGMYYGg.AWX	00:45,06:42 12:42,18:42	1
	Estimated daily rainfall amount			1	TEGMYYGR.AWX	00: 55	10
4	Equivalent black-body brightness Temprature	60°N-60°S, 45°E-165°E	0.1°x0.1°	24	TMGMYYGg.AWX	hour+45min	1.5
	Daily mean TBB 5 day mean TBB 10 day meanTBB Monthly mean TBB			1 1/5 days 1/10days 1/month	TMGMYYGR.AWX TMGMYYGH.AWX TMGMYYGX.AWX TMGMYYGY.AWX	23: 55 01:10 01:10 01:30	
5	Total cloud amount	50°N-50°S, 55°E-155°E	0.1°x.0.1°	24	TCZMYYGg.AWX	hour+45min	1
6	Clear Sky Precipitale Water	50°N-50°S 55°E-155°E	0.1°x0.1°	8	TZPMYYGg.AWX	01:20,04:20 07:20,10:20 13:20,16:20 19:20,22:20	1.5
7	Downward solar radiation	60°N-60°S, 45°E-165°E	1.0°x1.0°	1	TIGMYYNR.AWX	23:50	1



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8	Humidity profile by cloud analysis	50°N-50°S, 55°E-155°E	0.1°x0.1°	8	TZCMYYG1.AWX TZCMYYG2.AWX TZCMYYG3.AWX TZCMYYG4.AWX TZCMYYG5.AWX TZCMYYG6.AWX TZCMYYG7.AWX	01:10,04:05 07:05,10:05 13:05,16:05 19:05,22:05	1
9	Cloud classification	50°N-50°S 55°E-155°E	0.1°x0.1°	24	TCCMYYGg.AWX	hour+58min	1. 5
10	Snow coverage	15°N-60°N 60°E-150°E	0.5°x0.5°	1	TSGMYYGR.AWX	15: 00	0.3
11	Outgoing longwave radiation	50°N-50°S 55°E-155°E	0.1°x0.1°	8	TOGMYYGg.AWX	00:45,03:45 06:45,09:45 12:45,15:45 18:45,21:45	2
	Daily mean			1	TOGMYYGR.AWX	23:40	
	5 day mean			1/5 days	TOGMYYGH.AWX	01:30	
	10 day mean			1/10days	TOGMYYGX.AWX	01:30	
	Monthly mean			1/month	TOGMYYGY.AWX	01:30	
	Total						6312.8 (off flood season) 10592.8 (in flood season)