CGMS-39, CMA-WP-02
Prepared by CMA
Agenda Item: A.5
Discussed in Plenary

CMA Input to the CGMS Satellite Tables

Summary of the Working Paper.

In response to CGMS permanent action 01.

This working paper contains the CMA input to the CGMS coordinated satellite tables to be made available in the final CGMS-39 report.

CMA Input to the CGMS Satellite Tables

Table 1: Current Polar-Orbiting Satellites Coordinated within CGMS

(as of 06 Sep 2011; sorted by CMA)

Orbit type (equatorial crossing times)	**Satellites in orbit** (+operation mode) P=Pre-operational Op=operational B=back-up L=limited availability R= R&D	**Operator**	**Equatorial Crossing Time** A=Ascend (northward) D=Descend (southward) +Altitude	**Launch date**	***Status***
Sun-synchronous local "early morning" orbit (05:00 –07:00) (17:00 – 19:00)	FY-1D	CMA	04:10 (D) 866 km	15 May 2002	Infunctional from 6 May 2011; HRPT transmission; VISR, SEM
Sun-synchronous local "morning" orbit (07:00 – 12:00) (19:00 – 24:00)	FY-3A(Op)	CMA	10:15 (D) 836 km	27 May 2008	AHRPT/MPT transmission; VIRR, MERSI, MWTS, MWHS, TOU, SEM, SIM, MWRI（fail） IRAS(fail) SBUS(fail) ERM(fail)
Sun-synchronous local "afternoon" orbit (12:00 – 17:00) (00:00 – 05:00)	FY-3B(Op)	CMA	13:38 (A) 836 km	5 Nov 2010	AHRPT/MPT transmission, VIRR, MERSI, MWRI, IRAS, MWTS, MWHS, TOU/SBUS, SEM, SIM ERM(fail)

Table 2: Current Geostationary Satellites Coordinated within CGMS

(as of 06 Sep 2011, sorted by CMA)

Sector	Satellites currently in orbit (+type) P: Pre-operational Op: Operational B: Back-up L: Limited availability	Operator	Location	Launch date	Status
West–Pacific (108°E-180°E)	FY-2C (Standby)	CMA	123°E	23 Dec 2008	VISSR(5 channels) ,
Indian Ocean (36°E-108°E)	FY-2E (Op)	CMA	105 E	19 Oct 2004	S-VISSR(5channels), DCS, SEM.
	FY-2D (Op)	CMA	86.5°E	15 Nov 2006	S-VISSR(5 channels), DCS, SEM.

Table 4: Future Polar-Orbiting Satellites Coordinated within CGMS

(as of 06 Sep 2011, sorted by CMA)

Orbit type (equatorial crossing times)	Future additional Satellites	Operator	Crossing Time A=Ascend. (northward) D=Descend. (southward) +Altitude	Planned launch date	Other information
Sun-synchronous local "morning" orbit (07:00 – 12:00) (19:00 – 24:00)	FY-3C	CMA	10:00(D) 836 km	2013	AHRPT/MPT transmission; VIRR, MERSI, MWRI, IRAS, MWTS-2, MWHS-2, TOU/SBUS, SEM, ERM, SIM
	FY-3E	CMA	10:00(D) 836 km	2017	AHRPT/MPT transmission; MERSI-2, WindRD, HIRAS, MWTS-2, MWHS-2, WindRAD, OMS, SES, ERM-2, SIM-2, GNOS

	FY-3G	CMA	10:00(D) 836 km	2021	Same as above
Sun-synchronous local "afternoon" orbit (12:00 – 17:00) (00:00 – 05:00)	FY-3D	CMA	14:00(A) 836 km	2015	AHRPT/MPT transmission; MERSI-2, GAS, HIRAS, MWTS-2, MWHS-2, SES, GNOS
	FY-3F	CMA	14:00(A) 836 km	2019	Same as above

Table 5: Future Geostationary Satellites Coordinated within CGMS

(as of 06 Sep 2011, sorted by CMA)

Sector	Future additional satellites	Operator	Planned launch	(Planned location) Other remarks
Indian Ocean (36°E-108°E)	FY-2F	CMA	2012	5 channel VISSR 86.5°E
	FY-4A, C, E	CMA	2014	Multi-spectral imager, lightning mapper, SEM
West-Pacific (108°E-180°E)	FY-2G	CMA	2013	5 channel VISSR 123°E
	FY-4B, D, F	CMA	2016	Multi-spectral imager, lightning mapper, SEM