



CGMS-37, NOAA-WP-36
Prepared by NOAA
Agenda Item: N/A
Discussed in N/A

NOAA TABLE OF SATELLITES



CURRENT POLAR-ORBITING SATELLITES COORDINATED WITHIN CGMS

(as of 01 September 2009)

Orbit type (equatorial crossing times)	Satellites in orbit (+operation mode) P=Pre-operational Op=operational B=back-up L=limited availability	Operator	Crossing Time A=North w D=South w +Altitude	Launch date	Status
Sun-synchr. "Morning" (6:00 – 12:00) (18:00 – 24:00)	NOAA-17 (B)	NOAA	9:22 (D) 810 km	6/02	Functional. 10/28/2003 – AMSU-A1 Failed. 2/15/2003 – DTR5 Failed. 2/14/2008 – STX3 output power degraded to inoperable level. STX1 diminished performance.
	NOAA-15 (B)	NOAA	4:46 (D) 807 km	05/98	Functional (intermittent problems with AVHRR, AMSU-B & HIRS) AMSU-A1 channels 11 & 14 inoperative.
	DMSP-F16 (Op)	NOAA	20:04 (A) 850 km	10/03	Defense satellite. SSMIS. Data available to civilian users through NOAA.
	DMSP-F15 (B)	NOAA	19:37 (A) 850 km	12/99	Defense satellite. SSMT2 (microwave water vapor sounder) non-functional. Data available to civilian users through NOAA.
	DMSP-F14 (B)	NOAA	17:24 (A) 852 km	04/97	Defense satellite. SSMI (microwave imager), SSMT1 (microwave temperature sounder) non-functional and SSMT2 non-functional. No functional onboard recorder.
	DMSP-F12 (L)	NOAA	15:35 (A) 850 km	8/94	Defense Satellite. Satellite decommissioned on 10/12/08



Sun-synchr. “Afternoon” (12:00 – 16:00) (00:00 – 04:00)	NOAA-19 (Op)	NOAA	13:51 (A) 870 km	2/09	Functional. Noise on MHS Channels H3 and H4
	NOAA-18 (B)	NOAA	13:45 (A) 854 km	5/05	Functional. Noise on HIRS long wave channels. SBUV chopper motor intermittent seizures self-corrected via macros. 6/7/2009 – MIMU-2 failure (loss of redundancy).
	NOAA-16 (B)	NOAA	17:57 (A) 849 km	09/00	Functional, no APT. Intermittent problems with AVHRR.
Sun-synchr. “Early morning” (4:00 - 6:00) (16:00 – 18:00)	DMSP-F13 (B)	NOAA	18:33 (A) 850 km	03/95	Defense satellite. Data available to civilian users through NOAA. Only 1 recorder on-board with limited functionality.
	DMSP-F17 (Op)	NOAA	17:31 (A) 850 km	11/07	Defense satellite. SSMIS. Data available to civilian users through NOAA.



CURRENT GEOSTATIONARY SATELLITES COORDINATED WITHIN CGMS

(as of September 2009)

1 2 SECTOR	Satellites currently in orbit (+type) P: Pre-operational Op: Operational B: Back-up L: Limited availability	Operator	Location	Launch date	Status
WEST -PACIFIC (180°W-108°W)	GOES-11 (Op)	NOAA	135°W	05/00	X-Ray Positioner Failed 2/10/2008
EAST-ATLANTIC (108°W-36°W)	GOES-12 (Op)	NOAA	75°W	7/ 01	SXI Imaging Indefinitely Suspended 4/12/2007 X-Ray Positioner Failed 4/12/2007
	GOES-10 (B)	NOAA	60°W	04/97	Supports South America. Inverted, solar array anomaly, DCP interrogator on back-up. Decommissioning planned for 12/2009.
	GOES-13 (B)	NOAA	105°W	5/16/2006	In storage Mode XRS/EUV instrument had a capacitor failure rendering unit inoperable.
	GOES-14 (P)	NOAA	89.5°W	6/27/2009	In PLT

FUTURE POLAR-ORBITING SATELLITES COORDINATED WITHIN CGMS

(as of 01 September 2009)

Orbit type (equatorial crossing times)	Future Additional Satellites	Operator	Planned launch date	Other information
Sun-synchr. “Morning” (6:00 – 12:00) (18:00 – 24:00)				
	DMSP F-18	NOAA	10/18/09	(SSMI/S)
	DMSP F-20	NOAA	2014	(SSMI/S)
Sun-synchr. “Afternoon” (12:00 – 16:00) (00:00 – 04:00)				
	NPP – NPOESS Preparatory Project	NOAA/NASA	01/2011	(833 km) (13:30 A) (VIIRS, CrIS, ATMS, OMPS, CERES) HRD
	NPOESS-1	NOAA	03/2014	(833 km) (13:30 A) LRD(AHRPT), HRD
	NPOESS-3	NOAA	2020	(833 km) (13:30 A) LRD(AHRPT), HRD
Sun-synchr. “Early morning” (4:00 - 6:00) (16:00 – 18:00)				
	DMSP-F19	NOAA	2012	(SSMI/S)
	NPOESS-2	NOAA	05/2016	(833 km) (5:30 D) LRD(AHRPT), HRD
	NPOESS-4	NOAA	2022	(833 km) (5:30 D) LRD(AHRPT), HRD



FUTURE GEOSTATIONARY SATELLITES COORDINATED WITHIN CGMS

(as of 01 September 2009)

Sector	Future additional satellites	Operator	Planned launch	(Planned location) Other remarks
EAST PACIFIC (180°W- 108°W) AND WEST- ATLANTIC (108°W- 36°W)	GOES-P	USA/NOAA	04/2010	135° W or 75° W
	GOES-R	USA/NOAA	2015	135° W or 75° W