

**ANSWER TO ACTION 38.15: EUMETSAT REPORT ON THE LIST OF  
FREQUENCIES USED BY CURRENT AND FUTURE SYSTEMS**

In response to CGMS action 38.15

**In response to CGMS action 38.15, this contribution provides information on frequency spectrum use by current and future EUMETSAT systems.**

**The contained Table provides an overview of frequencies used by current and future EUMETSAT systems in the agreed format as contained in the CGMS-38 Report (Annex 1f of WG I).**

**Action 38.15:**

*CGMS Members to provide to each CGMS meeting a list of frequencies used by their current and future systems in the format provided in Annex 1 f the WG I report (merged version of WMO frequency reports amended with the extra fields as provided in Tables 1 and 2 of Document CGMS-38 EUM-WP-23). Deadline: CGMS-39.*

**Answer to action 38.15: EUMETSAT Report on the list of frequencies used by current and future systems**

**1 INTRODUCTION**

This document provides information on frequencies used by current and future EUMETSAT systems in the agreed format as contained in the CGMS-38 Report (Annex 1f of WG I).

**2 LIST OF FREQUENCIES USED BY CURRENT AND FUTURE EUMETSAT SYSTEMS (STATUS: 31 AUGUST 2011)**

The following Table contains a list of frequencies of current and future EUMETSAT systems sorted by geostationary and non-geostationary missions.

Satellite	Period of Utilisation / DBIU(2)	Position/ LST	Service/ Application	Direction	Freq. (MHz)	Emission (1)	Bandwidth (kHz)	Polarisation	Data rate (kbps)
<b>Current and future geostationary EUMETSAT satellite systems</b>									
<b>Meteosat-7</b>	1997-2013	57.5°E	DCP	E-S	402.001 – 402.435	3K00G7 D	3	RHCP	0.100
			DCP to PGS	S-E	1675.281	200KGX X	200	Linear	0.100
			TM	S-E	1676.328	2K60G1 D	30	Linear	0.3255
			Raw data to PGS	S-E	1686.833	2M00G1 D	1333.2	Linear	333
			WEFAX	S-E	1691.0	20KG1D	20	Linear	2.4
			HRI	S-E	1694.5	660KG1 D	660	Linear	166.66
			TC & Ranging	E-S	2098.0	6K30GX X	100	RHCP	6.3
			TC & Ranging	E-S	2099.0	6K30GX X	100	RHCP	6.3
			WEFAX uplink	E-S	2101.5	30KG1D	30	RHCP	1.6
			HRI uplink	E-S	2105.0	660KG1 D	660	RHCP	166.66
			TM	S-E	2242.225	2K60G1 D	30	RHCP	0.3255
<b>Meteosat-8 (MSG-1)</b>	2002-2016	9.5°E	DCP	E-S	402.001 – 402.435	1K50G7 D 3K00G7 D	1.53	RHCP	0.100
			SAR	E-S	406 – 406.1	60KG1D	100	Linear	N/A
			SAR	S-E	1544.5	60KG1D	200	Linear	N/A
			DCP to PGS	S-E	1675.281	750KGX X	750	Linear	0.100
			Raw Data to PGS	S-E	1686.833	6M00G1 D	5400	Linear	3270
			LRIT	S-E	1691.0	660KG1 D	660	Linear	128
			HRIT (not in use)	S-E	1695.15	2M00G1 D	2000	Linear	1000
			TC & Ranging	E-S	2068.6521	1M00GX X	1000	RHCP	1
			LRIT uplink	E-S	2101.5	660KG1 D	660	RHCP	128
			HRIT (not in use)	E-S	2105.65	2M00G1 D	2000	RHCP	1000
			TM	S-E	2246.5	1M00G1 D	1000	RHCP	3.58
<b>Meteosat-9 (MSG-2)</b>	2005-2019	0°E	DCP	E-S	402.001 – 402.435	1K50G7 D 3K00G7 D	1.53	RHCP	0.100

			SAR	E-S	406 – 406.1	60KG1D	100	Linear	N/A
			SAR	S-E	1544.5	60KG1D	200	Linear	N/A
			DCP to PGS	S-E	1675.281	750KGX X	750	Linear	0.100
			Raw Data to PGS	S-E	1686.833	6M00G1 D	5400	Linear	3270
			LRIT	S-E	1691.0	660KG1 D	660	Linear	128
			HRIT (not in use)	S-E	1695.15	2M00G1 D	2000	Linear	1000
			TC & Ranging	E-S	2067.7313	1M00GX X	1000	RHCP	1
			LRIT uplink	E-S	2101.5	660KG1 D	660	RHCP	128
			HRIT (not in use)	E-S	2105.65	2M00G1 D	2000	RHCP	1000
			TM	S-E	2245.5	1M00G1 D	1000	RHCP	3.58
<b>Meteosat-10</b> (MSG-3)	2012-	0°E	TC & Ranging	E-S	2069.5729	1M00GX X	1000	RHCP	1
			TM	S-E	2247.5	1M00G1 D	1000	RHCP	3.58
<b>Meteosat-11</b> (MSG-4)	2014-	0°E	TC & Ranging	E-S	2070.4938	1M00GX X	1000	RHCP	1
			TM	S-E	2248.5	1M00G1 D	1000	RHCP	3.58
<b>MTG</b> (series of 4 imager + 2 sounder satellites)	2017-	0°E, 9.5°E	DCP	E-S	401.7–402.85	1K50G7 D 3K00G7 D	1.5 3	RHCP	0.100
			SAR	E-S	406 – 406.1	60KG1D	100	Linear	N/A
			TC	E-S	2061.7065 – 2076.5186	1M00GX X	1000	RHCP & LHCP	TBD
			TM	S-E	2239 - 2255	1M00G1 D	1000	RHCP & LHCP	TBD
			MDA	S-E	26200-27000	286MG1 D 452MG1 D	28600 0 45200 0	RHCP & LHCP	TBD
<b>Current and future non-geostationary EUMETSAT satellite systems</b>									
<b>Metop-A</b> <b>Metop-B</b> <b>Metop-C</b>	2006-2012	21:30 (A) (817 km)	LRPT (not in use)	S-E	137.1 137.9125	150KG1 D	150	RHCP	72
	2012-2016		ARGOS Metop-A ARGOS Metop-B ARGOS Metop-C	E-S	401.585 401.595 401.61	10K0G7 D 10K0G7 D 20K0G7 D	10 10 20	RHCP	0.4
			SAR	E-S	406 – 406.1	100KG1 D	100	Linear	
			ARGOS	S-E	465.9875	1K00G1 D	1	RHCP	0.2/0.4
			SAR	S-E	1544.5	200KG1 D	200	Linear	

			HRPT	S-E	1701.3 1707	4M50G1 D	4500	RHCP	3500
			TC & Ranging	E-S	2053.4583	1M50G1 D	1500	RHCP & LHCP	2
			TM	S-E	2230.0	2M00G1 D	2000	RHCP & LHCP	4.096
			GDS	S-E	7800.0	63M0G1 D	63000	RHCP	70000
Jason-2	2008-2013	66° inclinatio n (1336 km)	TC	E-S	2088.8781 9	300KG2 D	300	LHCP & RHCP	4/20
			TM & Raw Data	S-E	2268.465	1M9G1D	1900	LHCP & RHCP	100/8 39
Jason-3	2013-2018	66° inclinatio n (1336 km)	TC	E-S	2040.493	300KG2 D	300	LHCP & RHCP	4/20
			TM & Raw Data	S-E	2215.92	2M0G1D	2000	LHCP & RHCP	100/8 39
GMES Sentinel-3	2013-	98.627° inclinatio n (800 km)	TC	E-S	2075.6504	768KG2 D	TBD	TBD	TBD
			TM	S-E	2254.1	2M20G1 D	TBD	TBD	TBD
			Raw Data	S-E	8095.0	140MG1 D	TBD	TBD	TBD
			Raw Data	S-E	8260.0	140MG1 D	TBD	TBD	TBD
EPS-SG	2019-	TBD	ARGOS-4	E-S	399.975 401.1125 401.4275 402.045 402.5855 402.925	150KG7 D	150 225 305 710 129 150	RHCP	1.2
						225KG7 D			
						305KG7 D			
						710KG7 D			
						129KG7 D			
						150KG7 D			
			ARGOS-4	S-E	465.9875	20KG1D	20	RHCP	1.2
			LRD (TBC)	S-E	1698 - 1710	TBD	TBD	TBD	TBD
TC	E-S	2025 - 2110	TBD	TBD	TBD	TBD			
TM	S-E	2200 - 2290	TBD	TBD	TBD	TBD			
HRD	S-E	7750 - 7900	TBD	TBD	TBD	TBD			
Raw Data	S-E	25500- 27000	TBD	TBD	TBD	TBD			

(1) In accordance with Appendix 1 of the Radio Regulations

(2) DBIU: Date of Bringing In Use

**Table: List of frequencies used by current and future EUMETSAT systems**