

RARS CODING SUMMARY

CGMS-36 Working Group II is informed of the status of definition of codes, GTS bulletin headings and filenames for the dissemination of data from the global network of Regional ATOVS Retransmission Systems (RARS).

As concerns the BUFR encoding of RARS data:

The originating centres and sub-centres are defined by Common Code Tables C-11 and C-12. These tables have been updated to include identifiers for the existing and planned RARS centres and stations;

The data category is 003 ("Vertical sounding by satellite");

The data sub-category is defined by Common Code Table C-13, for which an update is proposed in order to include identifiers for the various instruments of the ATOVS suite within data category 003.

As concerns the headings to be used when transmitting the BUFR-encoded RARS data as GTS bulletins:

The data type designator is defined by Table C-6 of the Manual on the GTS, for which an update is proposed in order to include identifiers for the various instruments of the ATOVS suite.

As concerns the filenames to be used when transmitting BUFR-encoded RARS data as files:

An implementation of the GTS file naming convention has been agreed for RARS data in order to harmonize data description by means of the location indicator, data designator and free description.

The current status of definition of these values is summarized in the attached table.

**ANNEX
ASIA-PACIFIC RARS**

CGMS-36 WMO-WP-09

v1, 16 October 2008

Region / RARS Centre	HRPT station name	HRPT station ID (3-letter)	BUFR Section 1				GTS Bulletin heading			Filename				
			Octets 5-6	Octets 7-8	Octet 11	Octet 12	A ₁	A ₂	CCCC	productidentifier			Originator	
			Originating/Generating Centre	Originating/Generating Sub-Centre	Data category	Datasub-category	Data type designator	Geographic designator	Location indicator	location indicator,	data designator,	free description	=CCCC country code when oflag=C	
			Manual on Codes WMO N°306 Vol.I.1 Global aspects				Manual on the GTS WMO N°386 Vol. I		WMO N°9 Vol.C1-Catalogue of Met.Bulletins	Manual on the GTS WMO N°386 Vol. I				
Common Code Table C-11 Centre responsible for L1c processing	Common Code Table C-12 HRPT numeric ID	BUFR Table A 003= vertical sounding by satellite	Common Code Table C-13 AMSUA=3 AMSUB=4 HIRS=5 MHS=6	ATT.II-5/25 Table C6 (proposed update)	ATT.II-5/22 Table C3	Centre that compiles bulletin	A.II-15/32 Country code-Organization-Production centre	A.II-5 (proposed) =[AMSUA, AMSUB, HIRS, MHS],	A.II-15/33 (proposed) (RARS+ Satellite name +station ID)	A.II-15/33 (consistent with CCCC in GTS Bulletin when relevant)				
JMA (Tokyo)	Kiyose	kiy	34	240	003	(3,4,5,6)	(A,B,H,M)	C	RJTD	jp-jma-msc,	(AMSUA, AMSUB, HIRS, MHS),	rars+(sat)+kiy	RJTD	
	Syowa	syo	34	207	003	(3,4,5,6)	(A,B,H,M)	S	RJTD	jp-jma-msc,		rars+(sat)+syo	RJTD	
	Seoul	seo	40	243	003	(3,4,5,6)	(A,B,H,M)	X	RKSL	kr-kma-seo,		rars+(sat)+seo	RKSL	
	Jincheon		40	245	003	(3,4,5,6)	(A,B,H,M)		RKSL				RKSL	
	Beijing	pek	39	225	003	(3,4,5,6)	(A,B,H,M)	X	BAWX	cn-CMA-pek,		rars+(sat)+pek	BAWX	
	Guangzhou		39	226	003	(3,4,5,6)	(A,B,H,M)							
	Urumuqi		39	228	003	(3,4,5,6)	(A,B,H,M)							
	Hong Kong	hkg	110	229	003	(3,4,5,6)	(A,B,H,M)	X	VHHH	cn-HKO-hkg,		rars+(sat)+hkg	VHHH	

B O M M e l b o u r n e	Casey	csy	2	201	003	(3,4,5,6)	(A,B,H,M)	S	AMMC	au-BOM-melbourne,	(AMSUA, AMSUB, HIRS, MHS),	rars+(sat)+csy	AMMC
	Davis	dvs	2	203	003	(3,4,5,6)	(A,B,H,M)	S	AMMC	au-BOM-melbourne,		rars+(sat)+dvs	AMMC
	Melbourne Crib Point 1	mel	2	211	003	(3,4,5,6)	(A,B,H,M)	X	AMMC	au-BOM-melbourne,		rars+(sat)+mel	AMMC
	Darwin	dar	2	214	003	(3,4,5,6)	(A,B,H,M)	X	AMMC	au-BOM-melbourne,		rars+(sat)+dar	AMMC
	Perth	pth	2	217	003	(3,4,5,6)	(A,B,H,M)	X	AMMC	au-BOM-melbourne,		rars+(sat)+pth	AMMC
	Townsville	tvf	2	219	003	(3,4,5,6)	(A,B,H,M)		AMMC	au-BOM-melbourne,		rars+(sat)+tvf	AMMC
	Kelburn	kel	69	247	003	(3,4,5,6)	(A,B,H,M)	X	NKZL			rars+(sat)+kel	NZKL
	Singapore	sgp	72	249	003	(3,4,5,6)	(A,B,H,M)	X	WSSS	sg-NEA-sgp,		rars+(sat)+sgp	WSSS
	Fiji	fij	2	232	003	(3,4,5,6)	(A,B,H,M)	X					
	Noumea	nou	2	235	003	(3,4,5,6)	(A,B,H,M)	X					
	Tahiti/Papeete	pap	2	237	003	(3,4,5,6)	(A,B,H,M)	X					
	Vladivostock	via	2	250	003	(3,4,5,6)	(A,B,H,M)	X					
	Guam	gua	2	251	003	(3,4,5,6)	(A,B,H,M)	X					
	Honolulu	hon	2	252	003	(3,4,5,6)	(A,B,H,M)	X					

Note: Cells shaded in green are future stations

EUMETSAT RARS (EARS)

Regional RARS Centre	HRPT station name	HRPT station ID (3-letter)	BUFR Section 1				GTS Bulletin heading			Filename				
			Octets 5-6	Octets 7-8	Octet 11	Octet 12	A ₁	A ₂	CCCC	productidentifier			Originator	
			Originating / Generating Centre	Originating/ Generating Sub-Centre	Data category	Datasub-category	Data type designator	Geographic designator	Location indicator	location indicator,	data designator,	free description	=CCCC country code when oflag=C	
			Manual on Codes WMO N°306 Vol.I.1 Global aspects				Manual on the GTS WMO N°386 Vol. I		WMO N°9 Vol.C1-Catalogue of Met.Bulletins	Manual on the GTS WMO N°386 Vol. I				
Common Code Table C-11	Common Code Table C-12	BUFR Table A	Common Code Table C-13	ATT.II-5/25 Table C6	ATT.II-5/22 Table C3	Centre that compiles bulletin	A.II-15/32	A.II-5 (proposed)	A.II-15/33 (proposed)	A.II-15/33				
Centre responsible for L1c processing	HRPT numeric ID	003= vertical sounding by satellite	AMSUA=3 AMSUB=4 HIRS=5 MHS=6	(proposed update)	Country code-Organization-Production centre		=[AMSUA, AMSUB, HIRS, MHS],	(RARS+ Satellite name +station ID)	(consistent with CCCC in GTS Bulletin when relevant)					
EUMETSAT (Darmstadt)	Maspalomas	mas	254	20	003	(3,4,5,6)	(A,B,H,M)	X	EUMS	xx-EUME TSAT-mas,	(AMSUA, AMSUB, HIRS, MHS),	rars+(sat)+mas	EUMS	
	Kangerlussuaq	kan	254	30	003	(3,4,5,6)	(A,B,H,M)	X	EUMS	xx-EUME TSAT-kan,		rars+(sat)+kan	EUMS	
	Edmonton	edm	254	40	003	(3,4,5,6)	(A,B,H,M)	X	EUMS	xx-EUME TSAT-edm,		rars+(sat)+edm	EUMS	
	Gander	gan	254	60	003	(3,4,5,6)	(A,B,H,M)	X	EUMS	xx-EUME TSAT-gan,		rars+(sat)+gan	EUMS	
	Monterey	mon	254	70	003	(3,4,5,6)	(A,B,H,M)	X	EUMS	xx-EUME TSAT-mon,		rars+(sat)+mon	EUMS	
	Wallops Island	wal	254	80	003	(3,4,5,6)	(A,B,H,M)	X	EUMS	xx-EUME TSAT-wal,		rars+(sat)+wal	EUMS	
	Gilmore Creek	gil	254	90	003	(3,4,5,6)	(A,B,H,M)	X	EUMS	xx-EUME TSAT-gil,		rars+(sat)+gil	EUMS	
	Athens	ath	254	100	003	(3,4,5,6)	(A,B,H,M)	X	EUMS	xx-EUME TSAT-ath,		rars+(sat)+ath	EUMS	

Ewa Beach (Hawaii)	ewa	254	120	003	(3,4,5,6)	(A,B,H,M)	X	EUMS	xx-EUME TSAT-ewa,	rars+(sat)+ewa	EUMS
Miami	mia	254	130	003	(3,4,5,6)	(A,B,H,M)	X	EUMS	xx-EUME TSAT-mia,	rars+(sat)+mia	EUMS
Lannion	lan	254	140	003	(3,4,5,6)	(A,B,H,M)	X	EUMS	xx-EUME TSAT-lan,	rars+(sat)+lan	EUMS
Svalbard	sva	254	150	003	(3,4,5,6)	(A,B,H,M)	X	EUMS	xx-EUME TSAT-sva,	rars+(sat)+sva	EUMS
St Denis (La Reunion)	std (TBC)	254	170	003	(3,4,5,6)	(A,B,H,M)	X	EUMS	xx-EUME TSAT-std,	rars+(sat)+std	EUMS
Moscow (TBC)	mos (TBC)	254	180	003	(3,4,5,6)	(A,B,H,M)	X	EUMS	xx-EUME TSAT-mos,	rars+(sat)+mos	EUMS
Muscat (Oman)	mus (TBC)	254	190	003	(3,4,5,6)	(A,B,H,M)	X	EUMS	xx-EUME TSAT-mus,	rars+(sat)+mus	EUMS

Note: Cells shaded in green are future stations

SOUTH AMERICA RARS

Regional RARS Centre	HRPT station name	HRPT station ID (3-letter)	BUFR Section 1				GTS Bulletin heading			Filename			
							Abbreviated headings T ₁ T ₂ A ₁ A ₂ ii CCCC YYGGgg (BBB) where T ₁ T ₂ =IN (per Vol C1 Table B-3)			pflag_productidentifier_oflag_originator_yyyyMMddhhmss[_freeformat].type[.compression] with pflag= W oflag = C freeformat=[AAPP filename]_bufr type=bin			
			Octets 5-6	Octets 7-8	Octet 11	Octet 12	A ₁	A ₂	CCCC	productidentifier			Originator
			Originating/Generating Centre	Originating/Generating Sub-Centre	Data category	Datasub-category	Data type designator	Geographic designator	Location indicator	location indicator,	data designator,	free description	=CCCC country code when oflag=C
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INPE (Cachoeira Paulista)	Cachoeira Paulista (INPE)	cpt	46	10	003	(3,4,5,6)	(A,B,H,M)	X	SBBR	br-inpe-cpt,	(AMSUA, AMSUB, HIRS, MHS),	rars+(sat)+cpt	SBBR
	Cuiaba (INPE)	cba	46	11	003	(3,4,5,6)	(A,B,H,M)	X	SBBR	br-inpe-cba,		rars+(sat)+cba	SBBR
	Brasilia (INMET)	inm	46	12	003	(3,4,5,6)	(A,B,H,M)	X	SBBR	br-inmet-inm,		rars+(sat)+inm	SBBR
	Fortaleza (FUNCEME)	fcm	46	13	003	(3,4,5,6)	(A,B,H,M)	X	SBBR	br-funceme-fcm,		rars+(sat)+fcm	SBBR
	Natal (Navy Hydrol. Centre)	chm	46	14	003	(3,4,5,6)	(A,B,H,M)	X	SBBR	br-marinha-chm,		rars+(sat)+chm	SBBR
	Manaus (SIVAM)	svm	46	15	003	(3,4,5,6)	(A,B,H,M)	X	SBBR	br-sivam-svm,		rars+(sat)+svm	SBBR
	reserved			46	16-20								

C O N A E (C o r d o b a)	Córdoba	etc	147	10	003	(3,4,5,6)	(A,B,H,M)	I	SACR	ar-conae-etc,	(AMSUA, AMSUB, HIRS, MHS),	rars+(sat)+e tc	SACR
	Marambio	ebm	147	20	003	(3,4,5,6)	(A,B,H,M)	S	SAWB	ar-conae-ebm,		rars+(sat)+e bm	SAWB
	Santiago de Chile (planned)	ets	147	30	003	(3,4,5,6)	(A,B,H,M)	I	SCQN	ch-conae-ets,		rars+(sat)+e ts	SCQN
	Juan Fernandez		147		003	(3,4,5,6)	(A,B,H,M)	I	SCQN				SCQN
	Punta Arenas (planned)	epa	147	40	003	(3,4,5,6)	(A,B,H,M)	I	SCCI	ch-conae-epa,		rars+(sat)+e pa	SCCI
	Base Presidente Frei	epf	147	50	003	(3,4,5,6)	(A,B,H,M)	S	SCEF	ch-conae-epf,		rars+(sat)+e pf	SCEF
	Cotopaxi (planned)	cpe	147	60	003	(3,4,5,6)	(A,B,H,M)	I		ec-conae-cpe,		rars+(sat)+c pe	

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