



Monitoring System

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The monthly newsletter for Region 1

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The members of the IARUMS Region 1 Monitoring Team:



Acknowledgements

++ ARI: DH7SA – Salvatore ++ ARSK: 5Z4NU - Ted ++ DARC: DJ9KR - Uli ++ EARA:
++ IRTS: EI4GXB - Ger ++ KARS: 9K2RR – Faisal ++ MARL: 9H1M – Dominic ++ MRASZ: HA7PL - Laci ++
++ NARS: 5N9AYM – Yusuf ++ OEVSU: OE3DMA – Alex ++ PZK: SP3SUZ – Wladyslaw ++ RAL: OD5RI – Riri ++
++ REP: CT4AN – Jose and CT1JTQ – Angelo ++ RSGB: G4BOH - Chris ++ SARL: ZS4SM - Malcolm ++
++ SRAL: OH2BLU - Pekka ++ URE: nn ++ USKA: HB9CET - Peter ++ VERON: PA0GRU - Dick ++ ZRS: S56ZDB - Darko
++ G3VZV – Graham (satellite intrusions) ++ TG9AJR – Juan (Co-ordinator Region 2) ++
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++ DJ7KG (BUOYS) ++ DF5SX (BC) ++ DARC (server support) ++ German PTT (BNetzA) ++ IARU Region 1 assistance ++
++ PB2T – Hans (IARU R1 President) ++ G3PSM - Colin (EC-IARU-R1) ++

Part 1: News and infos

Part 2: Detailed reports from the national co-ordinators

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Part 1: News and Infos

1. **Strong interference by a neighbored Plasma-TV – the endless story since 2 years!**

My daily monitoring work is severely affected by a neighbored Plasma-TV.
The range from 100 kHz is 30 MHz is concerned from 05 – 23 UTC and later!

2. **New Members in our System: SP3SUZ and S56ZDB**

SP3SUZ, Wladyslaw, is a new member in our Region 1 Monitoring System. He is the MS-Coordinator of the Polish Amateurradio Union “PZK”. Welcome to our increasing System, dear Wladyslaw! S56ZDB, Darko, is the Vice President of the Slovenian Amateur Radio Association “ZRS” and now the national MS-Coordinator, too. Welcome to our “large” family dear Darko!

3. **Russian Taxi Traffic now on 21 MHz**

I found Russian taxi traffic in FM on 21425 kHz on November 27th. A woman was operating the base station.

4. **Increasing Cooperation between the Region 1, 2 and 3**

The new IARUMS Coordinator of Region 3 is VK3MV, Peter Young. In the meantime we have excellent contacts between alle 3 Regions! We expect a successful and efficient future. There are 3 different homepages, but this is no problem. The main problems seem to be the different equipments. Region 1 is well equipped with special hardware, the Regions 2 and 3 are suffering from hardware deficiencies. VU2UR (earlier IARUMS Coordinator Region 3) will give us his assistance as before. Many thanks dear Arasu for your support over many years!

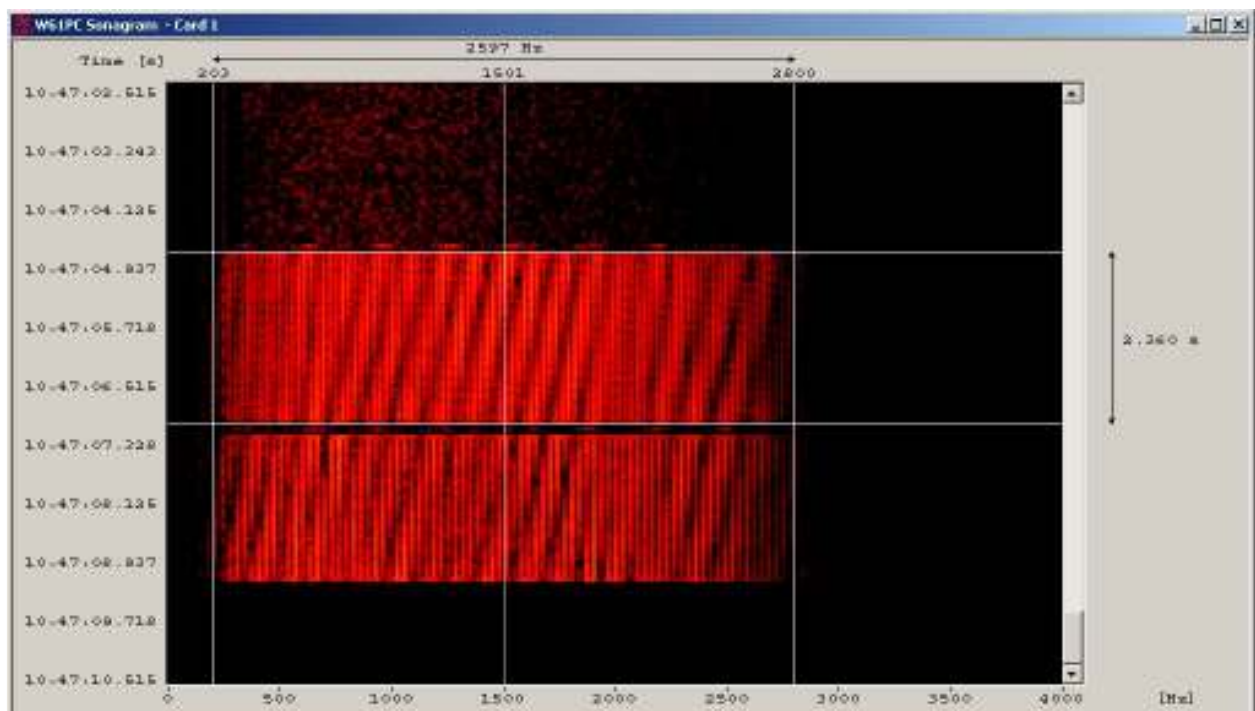
5. **Intruder Alert System Region 1 – the most successful invention in 2009**

Creating this system was the idea of Hani, OD5TE. At first I stored about 60 E-Mail addresses, which took me about 2 hours. Then the system began to run with high efficiency. We now have members from all parts of the world. Of course there is place enough for many more interested Hams.

6. **Tiger on 10 MHz in Region 3**

Friends from the Region 3 sent us reports and infos about the “Tiger-Radar” in Australia and New Zealand. The Tiger-Radar is operated by the La Trobe University in Australia. Infos: <http://www.tiger.latrobe.edu.au/>
Disturbations of our 10 MHz-were reported from VK and ZL. Many thanks to ZL1GWE and VR2BG for WAV-files. You can see the results below. Two and sometimes 3 transmission blocks with a length of 2 – 3 seconds, 33.3 and 27.8 pulses/sec were measured by the Wavecom W61.

Tiger Radar – sonagram with Wavecom W61 – DK2OM



8. Homepage IARU Region 1 <http://www.iaru-r1.org/>
Homepage IARUMS Region 1 <http://www.iarums-r1.org>
Homepage IARUMS Region 2 <http://www.intruder-watch.org/>
Homepage IARUMS Region 3 <http://www.iaru-r3.org/ms/>

Part 2: Detailed reports from the national Co-ordinators

DD = day *** MM = month *** dly = daily *** vt = various times *** vd = various days *** pps = pulses per second (radar systems) *** BD = Baud *** SH = Shift *** Mode = mode of transmission *** A3E = AM *** A1A = CW *** J3E-U = USB *** J3E-L = LSB *** FSK (F1B) = frequency shift keying *** PSK = phase shift keying *** MPSK12 (J7D) = 12 channel phase shift keying *** ALE (MIL-188-141A) = automatic link establishment *** MUX = multiplex *** Ui (uniden) = unidentified *** Illicit = illegal *** UiILL = unidentified illegal *** BC = broadcast *** MIL = military *** PTR = printer *** NGO = non governmental organization *** ITU = ITU country abbreviation *** PRC = People's Republic of China *** PLA = People's Liberation Army *** MFA = Ministry of Foreign Affairs *** MOI = Ministry of Interior *** MOPO = Ministry of Public Order *** IARUMS = IARU Monitoring System *** UTC = Universal Time Coordinated

ARSK MONITORING REPORT FOR November, 2009

Nothing unusual was observed from the hordes of intruders operating in Somalia, Ethiopia, Sudan and Francophone Central Africa. The "C" and now a "D" beacon in CW were heard in Nairobi on 21.116.1 and 14.077.4 mHz. The "D" beacon is reported to originate from the Sevastopol Russian Naval base.

E.H.M. Alleyne, 5Z4NU
ARSK National IARUMS Co-ordinator

ARSK – Kenya – 5Z4NU (Ted)

H'd by	kHz	UTC	dd	mm	ITU	Identity	Mode	Details
ARSK	7000.0	0727	30	11	SOM	UiPHONE	J3Eu	Somalis.
ARSK	7002.0	0940	4	11	SOM	UiPHONE	J3Eu	Somalis.
ARSK	7005.0	0715	30	11	ZAI	UiPHONE	J3Eu	Vernacular.
ARSK	7009.0	vt	dly	11	ZAI	UiPHONE	J3Eu	Vernacular, some English.
ARSK	7011.0	vt	*	11	SOM	UiPHONE	J3Eu	Somalis.
ARSK	7012.0	vt	dly	11	SOM	UiPHONE	J3Eu	Somalis.
ARSK	7015.0	0718	30	11	ZAI	UiPHONE	J3E	Vernacular.
ARSK	7022.0	0855	3	11	SOM	UiPHINE	J3Eu	Somalis.
ARSK	7026.0	0945	4	11	SDN	T1, T2, Peter, PA, PD, E1, Twiga net	J3Eu	English, sometimes encryped messages, NGO.
ARSK	7030.0	0856	3	11	ZAI	UiPHONE	J3Eu	KiSwahili, vernacular.
ARSK	7031.0	0719	30	11	SOM	UiPHONE	J3Eu	Somalis.
ARSK	7032.5	vt	*	11	ZAI	UiPHONE	J3E	French, vernacular. *30
ARSK	7038.1	vt	26	11	RUS	"C" & "D"	A1A	"C" & "D" beacons, "D" from Sevastopol.
ARSK	7040.0	0723	30	11	SOM	UiPHONE	J3Eu	Somalis.
ARSK	7045.0	vt	dly	11	SDN	MM, NE, NU, AA, AK, AJ, AL, AT, AO, DU, WL1, WL2, WL4, WL5, WL6, WL9, WL10, BR, WM, NU, MAJ, Ikola? Kabwe, Kalulu	J3E J3Eu	Vernacular, Dholuo? English, phonetics. SelCal. Sudan, NGO, SPLA or SNLA? Sends messages in phonetic five letter groups, probably a single-substitution cypher. Once heard sending five letter code groups, presumably an encrypted mssage.
ARSK	7048.0	vt	30	11	SDN	SB	J3Eu	English, NGO. SelCal.
ARSK	7049.0	0721	30	11	SOM	UiPHONE	J3Eu	Somalis.
ARSK	7057.0	vt	*	11	SOM	UiPHONE	J3Eu	Somalis. *30,
ARSK	7057.0	vt	*	11	SOM	UiPHONE	J3E	Somalis.*3,
ARSK	7062.0	0721	30	11	SOM	UiPHONE	J3Eu	Somalis.
ARSK	7066.0	vt	*	11	SOM	UiPHONE	J3Eu	Somalis.*3,30.
ARSK	7070.0	vt	*	11	SOM	UiPHONE	J3Eu	Somalis.*.30.
ARSK	7070.0	vt	*	11	ZAI	UiPHONE	J3E	Vernacular. *4,30.
ARSK	7075.0	vt	*	11	ZAI	UiPHINE	J3Eu	KiSwahili, possibly Lingala. *4,30.
ARSK	7080.0	0948	4	11	SDN	UiPHONE	J3Eu	Vernacular.
ARSK	7089.0	vt	*	11	SOM	UiPHONE	J3Eu	Somalis. Switches sidebands. *3,
ARSK	7092.0	vt	*	11	SOM	UiPHONE	J3Eu	Somalis.*3,
ARSK	7100.0	0950	4	11	ZAI	UiPHOINE	J3Eu	Vernacular.
ARSK	7110.0	vt	dly	11	ETH	Addis Ababa	A3E	Broadcast, Addis Ababa,

H'd by	kHz	UTC	dd	mm	ITU	Identity	Mode	Details
								Ethiopia
ARSK	7165.0	vt	dly	11	ETH	Addis Ababa	A3E	Broadcast. Arabic, Amharic.
ARSK	7175.0	vt	dly	11	ERI	VOBM?	A3E	Broadcast.
ARSK	7195.0	vt	dly	11	UGA	Kampala	A3E	Broadcast, Radio Uganda
ARSK	7200.0	vt	dly	11	SDN	Khartoum	A3E	Broadcast in Arabic, Khartoum.
ARSK	14077.4	vt	26	11	UKR	"D"	A1A	"D" Beacon, Sevastopol.
ARSK	21116.1	vt	26	11	UKR	"D"	A1A	"D" Beacon, Sevastopol.

DARC – Germany – Part 1 – DJ9KR (Ui)

PSE observe: BC (A3E) 7100 – 7200 kHz -> blue

CLUB	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	REMARKS AND COMMENTS
DARC	1838,4	2034	02	11	E	UiILL	J3E-U		Spanish fishery
DARC	3500,0	1709	15	11	E	UiILL	J3E-U		2 Spanish male persons
DARC	3521,0	1640	04	11	RUS	UiILL	J3E-U		male net in Russian voice
DARC	3535,0	vt	dly	11	HOL	UiILL	J3E-U		Dutch fishery
DARC	3535,0	vt	dly	11	G	UiILL	J3E-U		UK fishery
DARC	3535,0	vt	dly	11	F	UiILL	J3E-U		French fishery, engine noise audible
DARC	3540,0	1758	01	11	E	UiILL	J3E-U		Spanish fishery
DARC	3545,5	1710	15	11	E	UiILL	J3E-U		OP Miguel and another male person
DARC	3545,5	1738	20	11	F	UiILL	J3E-U		French fishery, engine noise audible, "en peche" (= on a fishing trip)
DARC	3550,0	0702	07	11	F	French Lis Amateurs	A3E		French lis amateurs using AM (A3E)
DARC	3550,0	2037	10	11	F	UiILL	J3E-U		French pirates
DARC	3550,0	1845	18	11	N.Eu	UiILL	J3E-U		Scandinavians
DARC	3550,0	vt	23	11	F	French Lis Amateurs	A3E		heard F6ACB Roland, F5DQH Michel and others - 0845 - 0852 - some stns off 3 kHz of 3550 kHz
DARC	3550,0	vt	dly	11	E	UiILL	J3E-U		Spanish fishery
DARC	3555,5	vt	dly	11	F	UiILL	J3E-U		French fishery, engine noise audible
DARC	3560,0	1810	18	11	KRE	V.o.Korea	A3E		En px S8
DARC	3565,0	1900	18	11	N.Eu	UiILL	J3E-U		Scandinavians
DARC	3576,3	0852	23	11	F	UiILL	A3E		French male person
DARC	3577,0	0852	23	11	I	IZ3DVW / BEACON	A1A		is active
DARC	3593,8	2107	30	11	RUS	beacon P	A1A		Kaliningrad
DARC	3600,0	1708	09	11	F	Lis French Amateurs	A3E		French ham net in AM
DARC	3600,0	vt	15	11	F	French Lis Amateurs	A3E		F5ONK, F5OBI, F6BIR, F6AQK, F6KQH(?), F1APJ-Christophe; F6DVD, F6CNK, F6AXN(?), ON4ADL(?)- heard 1710 - 1807
DARC	3600,0	vt	20	11	F	French Lis Amateurs	A3E		heard F6FKF; F6BIR, la picardie du sud; F5MAF, F5DQH, F6AQK, F6FKF, Jean-Pierre; F6CNK, Christian, sud de La Rochelle - 1718 - 1736 s/off
DARC	6999,7	vt	30	11		UiCAR	N0N		carrier 1715 - 2123
DARC	7000,0	1457	02	11	INS	UiILL	J3E-U		pirates
DARC	7000,0	1415	05	11	INS	UiILL	J3E-U		Indonesian pirates, male and female persons
DARC	7000,0	1017	06	11	E	10, 13	J3E-U		Spanish MIL
DARC	7013,5	2043	11	11	MRC	UiILL	J3E-U		Moroccan fishery in Arabic and Spanish voice, one OP is Khalid
DARC	7018,0	1634	02	11		UiPTR	F1B	1000	fast reversals
DARC	7018,0	2146	12	11		UiPTR	F1B	1000	unid printer with fast reversals
DARC	7018,0	vt	15	11		UiPTR	F1B	1000	heard 1517 - 1902, mostly fast

CLUB	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	REMARKS AND COMMENTS
									reversals
DARC	7018,0	1152	26	11	RUS	UiPTR	F1B	1000	unid printer
DARC	7038,7	0830	20	11	UKR	beacon D	A1A		Sevastopol
DARC	7038,7	0745	29	11	UKR	beacon D	A1A		Sevastopol
DARC	7038,8	0745	29	11	RUS	beacon P	A1A		Kaliningrad
DARC	7038,9	0830	20	11	RUS	beacon S	A1A		Murmansk
DARC	7038,9	0745	29	11	RUS	beacon S	A1A		Murmansk
DARC	7039,0	0745	29	11	RUS	beacon C	A1A		Moscow
DARC	7040,0	0852	06	11	I	IZ3DVW / BEACON	A1A		not coordinated and not wanted beacon of Italian Ham, heard 06 09 20 29 at 0852, 1308, 0830
DARC	7041,0	0752	29	11		UiMUX	FSK8		ALE heard
DARC	7054,0	vt	vd	11	RUS	UiPTR	F1B		reversals heard 15 29 30 at 1900, 0740, 2124
DARC	7088,0	0740	29	11		UiMUX	XXX		rushing noise
DARC	7098,0	0721	11	11		UiPTR	F1B		unid printer
DARC	7100,0	2039	03	11	KRE	V.o.Korea	A3E		Korean language
DARC	7100,0	1900	15	11	KRE	V.o.Korea			sign on with National Anthem
DARC	7100,0	1932	15	11	KRE	V.o.Korea	A3E		S9-signal heard 1932 - 2015
DARC	7100,0	0702	19	11		BC	A3E		2 px at the same time, one px is Italian
DARC	7100,0	1808	20	11	KOR	V.o.Korea	A3E		French px "L' armée populaire de Korée"
DARC	7100,0	2010	29	11	KRE	V.o.Korea	A3E		is active
DARC	7100,0	vt	dly	11	KRE	V.o.Korea	A3E		heard 1800 - 2130
DARC	7100,0	vt	dly	11	KRE	V.o.Korea	A3E		1800 - 1900: French px
DARC	7100,0	vt	dly	11	KRE	V.o.Korea	A3E		1900 - 2000: English px
DARC	7100,0	vt	dly	11	E	UiILL	J3E-U		Spanish fishery heard 0730 - 0745, 2100 - 2115
DARC	7105,0	1857	02	11		UiBC	A3E		s/on 1857 heard 02 03, Ar voice and Ar music - s/off 2108
DARC	7105,0	2202	08	11	CHN	Nei Menggu PBS China	A3E		Chinese px, daily active 2200 - 2300, found // 9455
DARC	7105,0	2202	08	11	TWN	Sound of Hope	A3E		Chinese px, daily active 2200 - 2300
DARC	7105,0	2202	08	11	TWN	Sound of Hope	A3E		Chinese voice
DARC	7105,0	2202	08	11	CHN	Nei Menggu PBS China	A3E		Chinese voice
DARC	7105,0	1927	09	11		BC	A3E		Ar music and songs, S4
DARC	7105,0	2258	09	11	CHN	Nei Menggu PBS China	A3E		s/on Chinese px
DARC	7105,0	2300	09	11	CHN	Nei Menggu PBS China	A3E		Chinese px heard, one faintly in background
DARC	7105,0	2300	09	11	TWN	Sound of Hope	A3E		Chinese px heard under CNR-1
DARC	7105,0	2200	12	11	CHN	Nei Menggu PBS China	A3E		Chinese px s/on
DARC	7105,0	2200	12	11	TWN	Sound of Hope	A3E		Chinese px
DARC	7105,0	vt	14	11	CHN	Nei Menggu PBS China	A3E		heard 2157 - 2213, signal 50 dBuV/m, daily active 2200 - 2300, found // 9455, location area of Linghi - report de BNetzA KON
DARC	7105,0	vt	15	11		UiBC	A3E		heard 1932 - 2016, at 2114: nil
DARC	7105,0	2202	17	11	CHN	Nei Menggu PBS China	A3E		Chinese px, National Anthem (2202)
DARC	7105,0	2202	17	11	TWN	Sound of Hope	A3E		Chinese px, audible under CNR-1
DARC	7105,0	2250	18	11	CHN	UiBC	A3E		Chinese px, s/off at 2300
DARC	7105,0	2250	18	11	TWN	UiBC	A3E		Chinese px, s/off at 2300
DARC	7105,0	2200	19	11	CHN	Nei Menggu PBS China	A3E		
DARC	7105,0	2200	19	11	TWN	UiBC	A3E		
DARC	7105,0	2140	27	11		UiCAR	NON		long lasting carrier

CLUB	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	REMARKS AND COMMENTS
DARC	7105,0	vt	29	11		UiBC	A3E		Ar px, female singing 2004 - 2010
DARC	7105,0	2158	30	11	CHN	Nei Menggu PBS China	A3E		sign on Chinese px, has big echo
DARC	7105,0	vt	30	11		UiBC	A3E		Spanish (?) px in QRM, at 2108 "gone"
DARC	7105,0	2108	31	11		UiBC	A3E		s/off at 2108
HFCC	7105,0	vt	vd	11	BGD	Radio Bangla Desh	A3E		1730 - 2000, every day 25.10.09 - 28.03.10
KARS	7110,0	0302	01	11	ETH	R. Ethiopia	A3E		
BCDX	7110,0	1405	01	11	ETH	R. Ethiopia			Domestic Service, S9 - // 5990 9704
DARC	7110,0	vt	dly	11	ETH	R. Ethiopia	A3E		heard all month 0623, 1400 - 2030
DARC	7112,0	0851	07	11		UiPTR	F1B		fast reversals
DARC	7114,0	1614	29	11		UiPTR	F1B		unid printer
DARC	7117,5	1524	04	11		UiPTR	F1B		reversals
DARC	7117,5	vt	05	11	RUS	REA4	F1B		heard 1718 - 1825
DARC	7117,5	1532	07	11	RUS	REA4	F1B		fast reversals
DARC	7117,5	vt	09	11	RUS	REA4	F1B		heard 1501 - 1557
DARC	7117,5	0803	23	11	RUS	REA4	F1B		fast reversals
DARC	7117,5	2108	28	11	RUS	REA4	F1B		unid printer, fast reversals
DARC	7117,5	vt	29	11		UiPTR	F1B		unid printer heard 1614 - 1716
DARC	7120,0	1615	04	11	TCD	Radio Tchad	NON		carrier S6
DARC	7122,0	0823	02	11	RUS	RDL	F1B	1000	unid printer
DARC	7122,0	0745	09	11	RUS	RDL	F1A	1000	5F keyed in Morse F1A
DARC	7122,0	1204	09	11	RUS	RDL	F1B	1000	printer heard
DARC	7122,0	1614	29	11	RUS	RDL	F1B	1000	printer heard
DARC	7125,0	2135	05	11		UiBC	A3E		piano music // to R. Conakry
DARC	7125,0	2012	10	11	GUI	R. Conakry	A3E		heard 0830, 1600 - 2310 every day
DARC	7125,0	2250	18	11		UiBC	A3E		S.Am music, weak
DARC	7125,0	vt	dly	11	GUI	R. Conakry	A3E		0600 - 1200 .234567 px in French and dialects
DARC	7125,0	vt	dly	11	GUI	R. Conakry	A3E		0800 - 1200 1..... px in French and dialects
DARC	7125,0	vt	dly	11	GUI	R. Conakry	A3E		1200 - 2400 dly px in French and dialects
DARC	7125,0	vt	dly	11	GUI	R. Conakry	A3E		1845 - 1850 English px
DARC	7130,0	1741	02	11	MLA	RTM Sarawak FM (?)	A3E		heard 02 08 15 21 30 at 1700 - 1800, vy weak signal
DARC	7135,0	2128	01	11		UiBC	A3E		heard 01 02 09 at 2128 - 2135, weak signal
DARC	7135,0	1543	12	11	BLR	R. Belarus	A3E		Russian songs, S9+25dB
DARC	7135,0	vt	16	11		UiBC	A3E		px in British English, heard 2135 till s/off at 2200
DARC	7135,0	1713	20	11		UiBC	A3E		heard 1713 - 1734
DARC	7140,0	1702	15	11		UiBC	A3E		heard 16 - 29 at 0010, 0539, 0700, 2100 - vy weak signal
HFCC	7140,0	vt	vd	11	RUS	Radio Rossiye	A3E		2000 - 1600, every day 25.10.09 - 28.03.10
DARC	7142,0	0830	20	11		UiPTR	F1B		printer heard
DARC	7142,0	0740	29	11		UiPTR	F1B		unid printer
DARC	7145,0	1950	02	11	SOM	R. Hargeisa	A3E		S4 for carrier
DARC	7145,0	1944	03	11	SOM	R. Hargeisa	A3E		S3
DARC	7145,0	1344	25	11	SOM	R. Hargeisa	A3E		unreadable, carrier S7
BCDX	7145,0	vt	dly	11		Laos	A3E		French 1300
BCDX	7145,0	vt	dly	11		Laos	A3E		English 1330
DARC	7150,0	2145	30	11		UiBC	A3E		very weak signal, just barely readable
HFCC	7150,0	vt	vd	11	KOR	Korean Broad- casting System	A3E		0600 - 1100, every day 25.10.09 - 28.03.10
HFCC	7150,0	vt	vd	11	KOR	Korean	A3E		1600 - 2100, every day 25.10.09 -

CLUB	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	REMARKS AND COMMENTS
						Broad-casting System			28.03.10
DARC	7165,0	1519	07	11		UiBC	A3E		Arabic (?) voice S9+20dB
DARC	7165,0	1532	07	11	ETH	R. Ethiopia	A3E		at the same time with VOBM
DARC	7165,0	1532	07	11	ERI	Voice of the Broad Masses	A3E		at the same time with R. Ethiopia
DARC	7165,0	1705	08	11	ERI	V.o.Broad Masses	A3E		slightly audible below jammer
DARC	7165,0	1705	08	11	ETH	ETH Govt. Jammer	JAM		white noise jammer 10 kHz
DARC	7165,0	1541	09	11	E.Af	UiBC	A3E		unid voice S9+20dB
DARC	7165,0	1457	14	11	ETH	R. Ethiopia	A3E		ann.: "Addis Abeba", S9+10dB
DARC	7165,0	1517	15	11	ERI	Voice of the Broad Masses	A3E		Ar px S9+10dB
DARC	7165,0	1702	15	11	ETH	ETH Govt. Jammer	JAM		White Noise jammer
DARC	7165,0	1702	15	11	ERI	V.o.Broad Masses	A3E		barely audible under jammer
DARC	7165,0	1800	18	11	ERI	V.o.Broad Masses	A3E		ann 1801, ann frequencies
DARC	7165,0	1712	30	11		V.o.Broad Masses	A3E		from 7175 after ETH jammer
DARC	7165,0	1717	30	11	ETH	EHT Govt. Jammer	JAM		white noise jammer
DARC	7165,0	1717	30	11	ERI	V.o.Broad Masses	A3E		audible under jammer
DARC	7165,0	vt	vd	11	ETH	R. Ethiopia	A3E		1600 - 1700: English px
DARC	7165,0	vt	vd	11	ETH	R. Ethiopia	A3E		1700 - 1800: French px
DARC	7165,0	vt	vd	11	ETH	R. Ethiopia	A3E		External Service
DARC	7175,0	0645	13	11		UiBC	A3E		unid BC
DARC	7175,0	1615	20	11	ETH	ETH Govt. Jammer	JAM		white noise jammer 10 kHz spread
DARC	7175,0	1730	20	11	ERI	V.o.Broad Masses	A3E		Ar px, mentioning "Eritrea"
DARC	7175,0	1716	21	11	ERI	V.o.Broad Masses	A3E		px, jammed by White Noise Jammer, S9+20dB
DARC	7175,0	vt	29	11	ERI	V.o.Broad Masses	A3E		heard 1757 - 1911, "Eritrea" often mentioned
DARC	7175,0	1702	30	11	ETH	ETH Govt. Jammer	JAM		starts jamming
DARC	7175,0	vt	vd	11	ERI	V.o.Broad Masses	A3E		0700, 1400 - 2000
DARC	7175,0	vt	vd	11	ETH	ETH Govt. Jammer	JAM		heard 21, 25 30 at 1341, 1600, 1716
DARC	7176,0	0823	02	11		UiPTR	F1B		unid printer
DARC	7176,0	1204	09	11		UiPTR	F1B		unid printer
DARC	7176,0	0810	10	11		UiPTR	F1B	250	unid printer
DARC	7176,0	1806	30	11		UiBC	A3E		S9
DARC	7179,0	2119	01	11	RUS	G. Rossiye	A3E		possibly IM: 2Ru px S6
DARC	7179,0	2126	03	11	RUS	G. Rossiye	A3E		QRG is really 7179
DARC	7179,0	2205	16	11	RUS	G. Rossiye	A3E		Russian px
DARC	7179,0	2151	17	11	RUS	G. Rossiye	A3E		Russian px 2151 - 2200
DARC	7179,0	2250	18	11	RUS	G. Rossiye	A3E		2 Ru px heard
DARC	7179,0	2138	25	11	RUS	G. Rossiye	A3E		2200: Golos Rossiye, 2 px at the same time in Russian, so possibly IM
DARC	7179,0	2053	29	11	RUS	G. Rossiye	A3E		2 px heard in Russian - is possibly Intermodulation IM
DARC	7179,0	vt	30	11	RUS	G. Rossiye	A3E		Ru px, 2 px audible, heard 2124 - 2205
DARC	7180,0	vt	dly	11	KRE	V.o.Korea	A3E		Chinese px 2100 - 2200
HFCC	7180,0	vt	vd	11	KOR	V.o.Korea	A3E		1900 - 2000, every day 25.10.09 -

CLUB	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	REMARKS AND COMMENTS
									28.03.10
DARC	7185,0	2119	12	11		UiBC	N0N		carrier S5
DARC	7188,0	0802	13	11		UiPTR	F1B		unid printer with fast reversals
DARC	7190,0	0050	03	11		UiBC			music, S6
DARC	7190,0	0028	20	11		UiBC	A3E		Oriental music S8
DARC	7190,0	1812	26	11		UiBC	A3E		S1
HFCC	7190,0	vt	vd	11	CLN	Sri Lanka Broadcasting	A3E		0300 - 1500, every day 25.10.09 - 28.03.10, px in Hindi
HFCC	7190,0	vt	vd	11	YEM	Yemen	A3E		0000 - 0500, every day 25.10.09 - 28.03.10
HFCC	7190,0	vt	vd	11	CLN	Sri Lanka Broadcasting	A3E		0800 - 1530, every day 25.10.09 - 28.03.10
DARC	7193,0	vt	vd	11		UiPTR	F1B		unid printer heard 22 26 28 at 0730 - 0932
DARC	7195,0	vt	21	11	I	Italian Lis Amateurs in AM	A3E		1100 - 1126 s/off - heard in Amplitude Modulation: IOLBE - Fabio, IZ0MFI - Marco, IK1TNR - Roberto, IT2URB, IZ2DPL (??), IZ2UTD - Graziano - just information!
KARS	7200,0	0256	01	11	RUS	G. Rossiye	A3E		
KARS	7200,0	0306	01	11	SDN	Radio Omdurman	A3E		start of tx-ions at 0300
DARC	7200,0	vt	01	11	IRN	IRIB	A3E		Spanish px S9+30dB, heard 2119 - 2127, suddenly s/off at 2127
DARC	7200,0	vt	01	11	F	Media Broadcast "Gospel for Asia"	A3E		s/on 2333, s/off 0030 - has left QRG meanwhile
DARC	7200,0	1405	02	11	SDN	Radio Omdurman	A3E		heard 0050, 0200 - 0230, 1400 - 2130
DARC	7200,0	1847	02	11	SDN	Radio Omdurman	A3E		Ar px "Sudan" often mentioned, S9
DARC	7200,0	vt	02	11	IRN	IRIB	A3E		heard 2122 - 2127 s/off
DARC	7200,0	2040	03	11	IRN	IRIB	A3E		Spanish px S9+30dB, // to African BC
DARC	7200,0	2330	03	11	F	Media Broadcast "Gospel for Asia"	A3E		nil, no BC
DARC	7200,0	2334	03	11	F	Media Broadcast "Gospel for Asia"	A3E		s/on Nepali px till 0030 - tx-er // 7240
DARC	7200,0	vt	03	11	SVK	Radio Slovakia	A3E		heard 0252 - 0257 s/off, Spanish px - found // R. Omdurman - sked Radio Slovakia 0230 - 0300 - has left QRG
DARC	7200,0	vt	03	11	SDN	Radio Omdurman	A3E		heard 0252 - 0257 Holy Qur' an recitals -- found // Radio Slovakia
DARC	7200,0	0227	04	11	SVK	R. Slovakia	A3E		s/on px till 0257 - tx-er // to 9440 - has left frequency meanwhile!
DARC	7200,0	1445	06	11	SDN	Radio Omdurman	A3E		Arabic px S9+10dB
DARC	7200,0	2330	06	11	(RUS)	(G. Rossiye) tent.	A3E		unid BC audible under Media Broadcast
DARC	7200,0	2332	06	11	F	Media Broadcast "Gospel for Asia"	A3E		s/on at 2332, Indian music found // 7240, px end 0030
DARC	7200,0	0813	10	11	RUS	G. Rossiye	A3E		Russian voice S9+10dB
DARC	7200,0	2043	10	11	IRN	IRIB			Spanish px
DARC	7200,0	1830	11	11	TUR	UiBC	A3E		German px, splatters of Voice of Turkey from...

CLUB	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	REMARKS AND COMMENTS
DARC	7200,0	2130	11	11	RUS	G. Rossiye			Russian px S4
DARC	7200,0	2119	12	11	IRN	IRIB			Spanish px
DARC	7200,0	0645	13	11	SDN	Radio Omdurman	A3E		// to Voice of Russia
DARC	7200,0	vt	13	11	RUS	G. Rossiye	A3E		Russian px heard 0645, 0802
DARC	7200,0	2005	16	11	RUS	G. Rossiye	A3E		S9+10dB
DARC	7200,0	2035	17	11	IRN	IRIB	A3E		Spanish px, also splatters from 7205 und 7210
DARC	7200,0	0717	18	11	RUS	G. Rossiye	A3E		Russian program
DARC	7200,0	0717	18	11	RUS	UiILL	J3E-U		Russisan traffic "priom"
DARC	7200,0	0702	19	11	RUS	G. Rossiye	A3E		2 BC, Russian and other px
DARC	7200,0	0826	20	11	RUS	G. Rossiye	A3E		Argentinian tango music, found // 7230
DARC	7200,0	0240	22	11	SVK	R. Slovakia	A3E		nothing heard about R. Slovakia 0240 till 0300
DARC	7200,0	0245	22	11	SDN	Radio Omdurman	A3E		s/on px with Al-Qur' an recitals
DARC	7200,0	1831	27	11	ROU	R. Romania Intl.	A3E		0704 and 1831: Ge px, splatters from 7210
DARC	7200,0	1911	28	11	ROU	R. Romania Intl.	A3E		German px, S9, splatters into ham band
DARC	7200,0	vt	28	11	RUS	G. Rossiye	A3E		px in Russian heard 0739 - 0932
DARC	7200,0	0745	29	11	RUS	G. Rossiye	A3E		Ru px
DARC	7200,0	vt	dly	11	RUS	G. Rossiye	A3E		Russian px heard 0001, 0237, 0240. 0702, 0832, 1340, 1936, 2005, 2323
DARC	7200,0	vt	dly	11	RUS	G. Rossiye	A3E		Ru px, ann: "Radio Rossiye", S9+10dB, heard 0800 - 1000
DARC	7200,0	vt	dly	11	IRN	IRIB	A3E		heard 2030 - 2130 -Spanish px, S9+30dB
DARC	7200,0	vt	vd	11	IRN	IRIB	A3E		station Ahwaz 1630 - 1730
DARC	7200,0	vt	vd	11	IRN	IRIB	A3E		station Kamalabad 1830 - 1930
HFCC	7200,0	vt	vd	11	SVK	Slovak Radio	A3E		0230 - 0300, every day 25.10.09 - 28.03.10, // 9440 - has left frequency!
HFCC	7200,0	vt	vd	11	BGD	Radio Bangla Desh	A3E		1300 - 1600, every day 25.10.09 - 28.03.10
HFCC	7200,0	vt	vd	11	RUS	Radio Rossiye	A3E		2000 - 1600, every day 25.10.09 - 28.03.10
HFCC	7200,0	vt	vd	11	IRN	IRIB	A3E		2030 - 2130, every day 25.10.09 - 28.03.10, Spanish px
HFCC	7200,0	vt	vd	11	F	Media Broadcast "Gospel for Asia"	A3E		2330 - 0030, every day 25.10.09 - 28.03.10, location Issoudun, central France - has left frequency!
DARC	7205,0	1702	30	11	CHN	R. China	A3E		English px, splatters to 7200 kHz
DARC	10100,8	vt	dly	11	D	DDH, DDK2, DDK9	F1B		German weather heard 0605 - 1540
DARC	10101,0	0955	05	11	TUR	UiILL	J3E-U		male net in Turkish voice
DARC	10101,0	1600	06	11	E	UiILL	J3E-U		net of male voices in Spanish, weak signals
DARC	10101,0	2002	11	11	MRC	UiILL	J3E-U		Moroccan fishery
DARC	10112,0	1158	23	11	TUR	UiMUX	G7D		Stanag-4285, 2k4, 8PSK
DARC	10115,0	1515	14	11	POR	UiILL	J3E-U		Portuguese fishery
DARC	10115,4	2055	02	11	E	UiILL	J3E-U		Spanish fishery
DARC	10120,0	2016	28	11	E	UiILL	UiILL		pirates in Spanish voice
DARC	10130,0	1158	23	11		UiPTR	F1B		fast reversals
DARC	10131,0	2000	14	11	MRC	UiILL	J3E-U		Moroccan fishery
DARC	10132,0	1420	19	11	G	UiILL	J3E-U		UK fishery, very obscene to complaining ham
DARC	10136,0	2000	12	11	MRC	UiILL	J3E-U		Moroccan fishery
DARC	10139,5	1600	06	11		UiILL	J3E-L		male voice, unid language
DARC	10150,0	0940	01	11	MRC	UiILL	J3E-U		Moroccan fishery

CLUB	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	REMARKS AND COMMENTS
DARC	10150,0	0757	02	11	RUS	UiILL	J3E-U		male net in Russian voice "priom"
DARC	10150,0	1730	02	11	MRC	UiILL	J3E-U		Moroccan fishery
DARC	10150,0	1747	12	11	E	UiILL	J3E-U		Spanish fishery
DARC	10150,0	0944	24	11	MRC	UiILL	J3E-U		Moroccan pirates
DARC	13920,0	1815	19	11	N.Eu	Codar HF-Radar	P0N		heard 13920 kHz - 13970 kHz (= 50 kHz spread)
DARC	13970,0	vt	vd	11	CHN	Hainan Music Jammer	JAM		heard every day at 0626 - 0840, S9+10dB, 10 kHz spread - just info
DARC	14000,0	1628	06	11	Af	UiILL	J3E-U		African pirates talking about Bukavu
DARC	14000,0	1118	08	11	INS	UiILL	J3E-U		Indonesian pirates
DARC	14000,0	1356	08	11		UiBC	A3E		BC-IM
DARC	14000,0	1215	09	11	MRC	UiILL	J3E-U		Moroccan fishermen, 2 male persons, engine noise in background
DARC	14000,0	1614	09	11	E	UiILL	J3E-U		Spanish woman, talking about "La Lloret"
DARC	14000,0	2259	10	11	B	UiILL	J3E-U		Brazilian pirates from North Brazil
DARC	14000,0	1346	13	11	CLN	UiILL	J3E-U		pirates
DARC	14000,0	1300	18	11	INS	UiILL	J3E-U		Indonesian pirates
DARC	14000,0	0808	19	11	E	UiILL	J3E-L		2 male persons in Spanish voice, mentioning "A Coruna"
DARC	14000,0	2131	22	11	ISR	Mossad	A3E		female voice in AM, is Mossad
DARC	14001,0	1048	02	11	CLN	UiILL	J3E-U		pirates
DARC	14001,4	1145	11	11	CLN	UiILL	J3E-U		pirates
DARC	14001,5	1338	21	11	CLN	UiILL	J3E-U		Tamil fishery
DARC	14002,0	0618	01	11	CLN	UiILL	J3E-U		Tamil pirates
DARC	14002,0	1433	18	11	MRC	UiILL	J3E-U		Moroccan fishery
DARC	14002,0	vt	vd	11	Af	UiILL	J3E-U		African pirates heard all month 0710 - 1005, 1224 - 1800 - 28 reports all month
DARC	14002,2	1704	01	11	Af	UiILL	J3E-U		African pirate net
DARC	14015,5	0320	17	11	IND	UiILL	J3E-U		Indian male traffic
DARC	14061,0	0840	20	11		UiMUX			multiplex
DARC	14111,0	0817	19	11		UiMUX	FSK8		ALE heard
DARC	14274,0	0846	07	11		UiPTR	F1B		fast reversals
DARC	14295,1	vt	dly	11	TJK	R.Tajikistan	A3E		S6, is 3f de 4765 also audible - heard 07 20 26 at 0842 - 1011
DARC	14305,6	1417	05	11	INS	UiILL	J3E-L		Indonesian pirates, male and female persons
DARC	14308,0	1121	26	11		UiPTR	F1B		unid printer
DARC	18075,0	1044	16	11		OTH-Radar	P0N		spreading 18068 - 18080
DARC	18100,0	0800	01	11	E	UiILL	J3E-U		Spanish fishery with vocoder CRY-2001
DARC	18170,0	note	15	11	E	EA7RW	J3E-U		in May 2006 EA7RW was already heard on 21160 in contact with unlis Catholic Missionary station in Pay Kikwit, Zaire. The OP was an unlis Sister
DARC	18170,0	vt	15	11	E	EA7RW	J3E-U		OP Paco - 1536 - 1646 - Spanish voice with TZ6JM and TT8??? - out of band operation!
DARC	18170,0	vt	15	11	MLI	TZ6JM	J3E-U		OP José - 1536 - 1646 - with EA7RW and TT8??? - out of band operation!
DARC	21210,0	1045	16	11		OTH-Radar	P0N		spreading 21196 - 21223

DARC – Germany – Part 2 – DK2OM (Wolf)

PSE observe:

FSK transmissions -> center frequency between mark and space

PSK transmissions -> center frequency (subtract the modem frequency!)

ALE (MIL188-141A) -> USB frequency – exclusive bands: black – nonexclusive: blue

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
DK2OM	1812,0	ady	dly	11	POL		A3E			Polish “PIP” – 10 tones – North-Poland – Baltic coast
DK2OM	1852,0	2000	01	11	BLR		F1B	49	250	BLR MIL
DK2OM	1876,7	vt	dly	11	G		F1B	1200	850	RM6-modem, ASCII - ACF10 - Scotland
DK2OM	1896,5	ady	dly	11	D		PSK8	2400	2600	Stanag4285 – German Navy – North-Germany
DK2OM	1921,0	2030	27	11	RUS		PSK2	120	2600	AT3004D - area of Moscow
DK2OM	3500,0	vt	dly	11						frequency hopper
DK2OM	3503,5	vt	dly	11	G	no ITU	FSK8	125	1750	ALE – “XSS” “XPU” – British MIL Tascomm
DK2OM	3506,0	vt	dly	11	ALG		FSK8	125	1750	ALE, “FS40” “GS46” “GS50”
DK2OM	3508,4	2019	24	11	CZE		F1B	100	170	south east of Prague
DK2OM	3517,0	vt	dly	11						frequency hopper
DK2OM	3517,0	1418	12	11	CIS		PSK2	120	2600	uniden
DK2OM	3517,8	vt	dly	11	D		PSK8	2400	2600	Stanag4285 - Hamburg
DK2OM	3525,9	2022	25	11			FSK8	125	1750	Thales Skymaster, uniden
DK2OM	3527,0	1944	vd	11	RUS		F1B	50	200	Far-East-RUS
DK2OM	3533,8	2030	16	11	F		Link11			North-West-France - Normandie
DK2OM	3542,9	2135	23	11			FSK8	125	1750	Thales Skymaster, uniden
DK2OM	3544,0	2014	12	11	BLR		PSK4	120	2600	AT3004D – Grodno - Belorussia
DK2OM	3553,8	ady	dly	11	TUR		PSK8	2400	2600	Stanag4285 – TUR MIL
DK2OM	3560,0	1800	dly	11	KRE		A3E			Voice of North-Korea – illegal!
DK2OM	3566,0	vt	dly	11	E		FSK8	125	1750	ALE, “TWL” “TXX” Spanish Guardia Civil
DK2OM	3570,0	2030	09	11	RUS		PSK2	120	2600	Far-East-Russia
DK2OM	3577,0	vt	dly	11			FSK8	125	1750	ALE, “RKALEGRY” “RK2ALEGRY” “HBALEGRY”
DK2OM	3577,1	2045	23	11	I	IZ3DVW	A1A			uncoordinated beacon
DK2OM	3585,0	1700	dly	11	TWN	HLL	F1C			120 rpm, IOC 576, Wxfax
DK2OM	3586,0	2000	dly	11			PSK2	40	40	uniden PSK
DK2OM	3590,0	2002	vd	11	BLR		PSK2	120	2600	AT3004D - Minsk
DK2OM	3594,0	vt	dly	11	ALG		FSK8	125	1750	ALE, “BT30” “FS30” “WA30”
DK2OM	3595,0	vt	dly	11	D	no ITU	FSK8	125	1750	ALE – „ZLST“ „ZPRI“ „ZSHO“ German customs – North - Germany
DK2OM	3596,0	1856	13	11						frequency hopper
DK2OM	3596,0	1755	24	11	HRV	9A0ALE	FSK8	125	1750	Croatian ALE-net --- for info!
DK2OM	3596,0	1818	26	11	RUS		PSK2	120	2600	AT3004D - RUS – MIL St. Petersburg
DK2OM	3606,0	vt	dly	11	ALG	no ITU	FSK8	125	1750	ALE, “FS20” “TP20” “XT2”
DK2OM	3656,0	2000	02	11			F1B	50	400	
DK2OM	3682,5	1809	05	11	GEO		F1B	50	250	GEO MIL
DK2OM	3725,0	1658	02	11	RUS		F1B	100	250	west of Moscow
DK2OM	3735,0	1800	dly	11	POL		F1B	43	500	idling, South of Warsaw
DK2OM	3782,0	ady	dly	11	POR	CTP	F1B	75	850	POR Navy headquarter Lisbon
DK2OM	7000,0	vt	dly	11	IRQ	no ITU	FSK8	125	1750	ALE, “SHDTC” “GUNTOC” – US MIL Iraq
DK2OM	7000,0	vt	dly	11						frequency hopper
DK2OM	7000,0	vt	dly	11	MEa	no ITU	FSK8	125	1750	ALE, “T1Z130” “T1Z137” “T1Z150” - US MIL
DK2OM	7000,0	0901	10	11	RUS		F1B	100	250	RUS MIL - Novgorod
DK2OM	7000,0	2025	10	11			P0N			OTH Radar - 33,3 pps - uniden
DK2OM	7000,0	2250	23	11	CHN		P0N			OTH Radar China, 43.5 pps
DK2OM	7001,8	1030	06	11			PSK8	2400	2600	Stanag4285, uniden
DK2OM	7002,5	1726	19	11	UKR		A1A			spurious from beacon “D” on 7038,7 – distorted signal
DK2OM	7008,0	vt	dly	11			FSK8	125	1750	ALE, “222” “297” “847” “981”

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
DK2OM	7008,0	0908	10	11	RUS		F1B	75	250	RUS MIL - Magnitogorsk
DK2OM	7010,0	vt	dly	11	MKD		FSK8	125	1750	ALE, "RS004A" - MKD MIL
DK2OM	7010,0	vt	dly	11						frequency hopper
DK2OM	7014,0	1628	10	11	CHN		FSK8	125	1750	ALE, "411" - PRC PLA
DK2OM	7014,0	0540	27	11	RUS		OFDM			OFDM93 - RUS MIL - Krasnodar
DK2OM	7015,8	1624	10	11			PSK4	75	1700	Codan9001 - 16 x 75 Bd
DK2OM	7018,0	1900	01	11	RUS	REA4	F1A/B	50	1000	REA4 - Russian Airforce Moscow - ident: 00h + 41min
DK2OM	7020,0	vt	dly	11	MKD		FSK8	125	1750	ALE, "BS008C1" "CS004A" - MKD MIL
DK2OM	7024,0	0904	20	11						frequency hopper
DK2OM	7038,7	ady	dly	11	UKR	D	A1A			Cluster beacon - Sevastopol - RUS Navy - "RCV"
DK2OM	7038,8	ady	29	11	RUS	P	A1A			Cluster beacon - RUS Navy - "RMP" - Kaliningrad
DK2OM	7038,9	ady	dly	11	RUS	S	A1A			Cluster beacon - Murmansk - RUS Navy - „RIT“
DK2OM	7039,0	ady	dly	11	RUS	C	A1A			Cluster beacon - Moscow - RUS Navy - "RIW"
DK2OM	7039,0	vt	dly	11						frequency hopper
DK2OM	7039,2	ady	dly	11	RUS	F	A1A			Cluster beacon - Vladivostok - RUS Navy - "RJS"
DK2OM	7040,0	ady	dly	11	I	IZ3DVW	A1A			IZ3DVW - beacon not coordinated
DK2OM	7041,0	vt	dly	11						frequency hopper
DK2OM	7044,4	1800	dly	11	RUS		FSK15?	10,8	2700	FSK15?, Novosibirsk
DK2OM	7047,0	vt	vd	11	UKR		PSK2	120	2600	AT3004D - Sevastopol
DK2OM	7049,5	vt	dly	11			FSK8	125	1750	ALE - Amateur-net, just for info!
DK2OM	7054,0	1700	dly	11	RUS		F1B	50	200	RUS MIL - Moscow
DK2OM	7076,0	0245	27	11	RUS		F1B	75	250	RUS MIL - Novosibirsk
DK2OM	7079,0	1839	19	11	UKR		PSK2	120	2600	AT3004D - Kiev
DK2OM	7080,0	vt	dly	11						frequency hopper
DK2OM	7089,0	vt	vd	11	RUS		PSK2	120	2600	AT3004D - Kaliningrad
DK2OM	7089,9	1340	dly	11	UKR		F1C			Wxfax - 60 rpm, IOC576, Sevastopol - RUS Naval Base
DK2OM	7092,0	vt	dly	11	TUR	no ITU	FSK8	125	1750	ALE, "1020" - Turkish Red Crescent
DK2OM	7094,0	1045	09	11	RUS		OFDM			OFDM 93 - Stavropol
DK2OM	7095,0	0746	09	11	MEa		P0N			OTH Radar, 33.3 pps, 90 °
DK2OM	7095,9	1351	dly	11	UKR		OFDM	22,2	2900	OFDM93 - area of Kiev
DK2OM	7098,0	vt	vd	11	RUS		F1B	75	250	south of Petropavlovsk
DK2OM	7111,0	1010	18	11	RUS		F1B	75	250	
DK2OM	7113,0	vt	vd	11	RUS		PSK2	120	2600	area of Moscow
DK2OM	7114,0	0820	17	11	RUS		PSK2	120	2600	AT3004D - Kaliningrad
DK2OM	7117,0	vt	dly	11						frequency hopper
DK2OM	7118,0	vt	vd	11	RUS		F1B	76	250	RUS MIL - south-west of Moscow
DK2OM	7120,0	0813	25	11	KAZ		PSK2	120	2600	AT3004D - Kazakhstan
DK2OM	7122,0	0823	27	11	RUS	RDL	A1A			encrypted msgs
DK2OM	7125,0	1004	30	11	RUS		PSK2	120	2600	AT3004D - RUS Navy - Kaliningrad
DK2OM	7140,0	vt	dly	11	UZB		FSK8	125	1750	ALE, "1104" "1708" "1703"
DK2OM	7142,0	vt	vd	11	RUS		F1B	75	250	RUS MIL - Kaliningrad
DK2OM	7144,0	1129	07	11	RUS		PSK2	120	2400	AT3004D - north of Moscow
DK2OM	7148,0	2249	01	11	RUS		PSK2	120	2600	AT3004D - Murmansk
DK2OM	7149,5	vt	vd	11	RUS		PSK2	120	2600	AT3004D - Kaliningrad
DK2OM	7162,0	vt	vd	11	RUS		F1B	75	250	RUS MIL - Moscow
DK2OM	7165,0	1620	dly	11	ETH	QRM	A3E			white noise from Radio Ethiopia
DK2OM	7170,0	vt	dly	11						frequency hopper
DK2OM	7171,0	0930	14	11	RUS		PSK2	120	2600	AT3004D - Kaliningrad
DK2OM	7175,0	1730	dly	11	ETH	QRM	A3E			white noise from Radio Ethiopia
DK2OM	7176,0	vt	dly	11	RUS		F1B	75	250	RUS MIL, area of Moscow
DK2OM	7178,0	0753	27	11	RUS		PSK2	120	2600	AT3004D - east of Moscow

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
DK2OM	7186,0	vt	dly	11	RUS		PSK2	120	2600	AT3000D – Murmansk
DK2OM	7188,0	vt	vt	11	RUS		F1B	75	250	RUS Navy - Kaliningrad
DK2OM	7196,0	vt	vd	11	RUS		F1B	75	200	RUS MIL Petropavlovsk
DK2OM	7197,0	0723	18	11	GEO		PSK2	120	2600	AT3004D - area of Tiflis
DK2OM	10103,0	1919	29	11						frequency hopper
DK2OM	10107,0	vt	dly	11	RUS		A1A	50		50 dots/sec - no ident - Novosibirsk
DK2OM	10112,0	ady	dly	11	TUR		PSK8	2400	2600	Stanag4285 – 600 bps long - Turkish MIL
DK2OM	10114,0	vt	dly	11						frequency hopper
DK2OM	10116,8	1453	14	11	RUS		unid		2000	uniden broadband system, undefined noise with much fading
DK2OM	10121,0	vt	vd	11	RUS		F1B	75	250	RUS MIL - area of Kazan
DK2OM	10121,0	vt	dly	11						frequency hopper
DK2OM	10121,8	0826	17	11	MEa		PSK8	2400	2600	Stanag4285 – 1200 bps long
DK2OM	10123,0	0910	12	11	RUS		F1B	75	200	
DK2OM	10125,0	0829	23	11	RUS		PSK2	120	2600	AT3004D - East-Russia
DK2OM	10128,0	vt	dly	11			FSK8	125	1750	ALE, “UP”
DK2OM	10130,0	vt	dly	11	USA		F1B	50	850	Maine - USA
DK2OM	10130,0	0650	02	11	CHN		F1B	50	500	Chinese MIL
DK2OM	10130,0	1340	13	11	CYP		P0N			OTH Radar Cyprus, 50 pps
DK2OM	10136,0	vt	dly	11	RUS		F1B	50	200	East-RUS
DK2OM	10139,8	1535	25	11			A3E			uniden BC – IM product
DK2OM	10140,0	vt	dly	11						frequency hopper
DK2OM	10142,0	1459	19	11	RUS		MFSK	40	1400	CIS6 - 36 tones, 2 stations, north of GEO
DK2OM	10144,0	1359	22	11						frequency hopper
DK2OM	10145,0	vt	vd	11	CYP		P0N			OTH Radar Cyprus, 50 pps
DK2OM	10145,5	vt	dly	11		CTIREP	FSK8	125	1750	ALE, Radio Amateurs, just for info!
DK2OM	10148,0	vt	vd	11	RUS		F1B	76	250	RUS MIL - Moscow
DK2OM	10150,0	vt	vd	11	CYP		P0N			OTH Radar Cyprus, 50 pps
DK2OM	10150,0	1111	23	11						frequency hopper
DK2OM	14000,0	vt	dly	11						frequency hopper
DK2OM	14000,0	1327	22	11	CYP		P0N			OTH Radar Cyprus, 50 pps on 13900 kHz splattering up
DK2OM	14000,0	1120	23	11	IRN?		P0N			uniden OTH, 100 pps, 13985 – 14020 kHz - 110° - IRAN?
DK2OM	14001,7	1640	11	11	MEa				2800	broadband signal, pilotone on 14000,240 – signal up 14003,0 Possibly: BUL, TUR, ARS
DK2OM	14001,8	0800	12	11	ISR		PSK4	75	2700	MIL 188-110A – hybrid modem
DK2OM	14006,0	0738	18	11	RUS		PSK2	120	2600	AT3004D -
DK2OM	14010,0	vt	dly	11						frequency hopper
DK2OM	14032,0	1524	02	11						frequency hopper
DK2OM	14052,0	vt	vd	11	RUS		PSK2	120	2600	RUS MIL - Far-East Russia
DK2OM	14058,0	vt	dly	11						frequency hopper
DK2OM	14065,5	0900	20	11	RUS		PSK2	120	2600	AT3004D - east of Moscow
DK2OM	14076,0	vt	dly	11						frequency hopper
DK2OM	14077,4	1036	25	11	UKR		A1A			harmonic from 7038,7 – RUS Navy - Sevastopol
DK2OM	14141,0	0917	16	11	RUS		F1B	75	500	RUS MIL - west of Moscow
DK2OM	14162,0	0743	18	11	RUS		PSK2	120	2600	AT3004D - North of Bryansk
DK2OM	14192,0	vt	vd	11	RUS		F1B	50	500	RUS Navy - Kaliningrad
DK2OM	14211,0	vt	vd	11	RUS		F1B	50	250	RUS MIL - east of Moscow
DK2OM	14251,0	0848	04	11						frequency hopper
DK2OM	14255,0	1120	10	11	RUS		P0N			RUS OTH “ABM2” - 50 pps - 10 kHz wide, Moscow, spurious signals 100 kHz up and down
DK2OM	14260,0	vt	dly	11						frequency hopper
DK2OM	14260,0	0750	23	11			F1B	100	2000	harmonic, fundamental not audible
DK2OM	14295,1	ady	dly	11	TJK		A3E			Radio Tajik – 3 rd from 4765
DK2OM	14326,0	vt	dly	11						frequency hopper

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
DK2OM	14347,0	0958	14	11	CIS		A1A			cyrillic letters, encrypted, distorted signal
DK2OM	14350,0	vt	vd	11	CYP		P0N			splatter from OTH Radar Cyprus, 50 pps on 14360 kHz
DK2OM	18076,0	1405	27	11						frequency hopper
DK2OM	18100,0	vt	dly	11						frequency hopper
DK2OM	18102,0	vt	dly	11						frequency hopper
DK2OM	18107,0	vt	dly	11	RUS		F1B	50	200	RUS MIL - Moscow
DK2OM	21000,0	vt	dly	11						frequency hopper
DK2OM	21000,0	0908	16	11	CIS		F1B	39	1000	hamonic from 10500 (500 Hz shift)
DK2OM	21000,0	0901	17	11	CYP		P0N			OTH Radar Cyprus, 50 pps
DK2OM	21070,0	vt	dly	11						frequency hopper
DK2OM	21116,1	0912	27	11	UKR	D	A1A			Cluster beacon – Sevastopol – RUS Navy – “RCV” – 3 rd from 7038,7
DK2OM	21145,8	ady	dly	11	I	IZ3DVW	A1A			uncoordinated beacon
DK2OM	21175,0	0925	04	11	CYP		P0N			OTH Radar Cyprus, 25 pps
DK2OM	21190,0	vt	vd	11	RUS		F1B	100	1000	RUS MIL - area of Kazan - harmonic from 10595
DK2OM	21390,0	vt	vd	11	RUS		F1B	100	3000	harmonic – fundamental not audible
DK2OM	21437,0	vt	dly	11						frequency hopper
DK2OM	21438,0	vt	dly	11	RUS	RCV RIP90	A1A			“RCV” “RIP90” “RFH71” - Russian Navy
DK2OM	21439,0	vt	dly	11						frequency hopper
DK2OM	24890,0	vt	dly	11						frequency hopper
DK2OM	24896,0	vt	dly	11						frequency hopper
DK2OM	24900,0	vt	dly	11						frequency hopper

DARC – Germany – Part 3 - DL8AAM (Tom) Single-Letter-HF-Beacons:

Just for informations, these so-called "Single-Letter-HF-Beacons" (SLHFB) or in this case the sub-system "Cluster beacons" (in difference to channels where only one of these SLHFB is active, e.g. "P" on several 80m frequencies) are always reported as being in relation to a specific Russian fleet.

HQ communications station:

The letters versus their fleets and their regular "ITU-callsign":

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- P = Baltic Sea Fleet HQ, Kaliningrad = RMP
- S = Northern Fleet HQ, Severomorsk (in Murmansk Oblast) = RIT
- D = Black Sea Fleet HQ, Sevastopol (Ukraine) = RCV
- C = Naval HQ, Moscow = RIW
- F = Pacific Fleet HQ, Vladivostok = RJS
- K = Pacific Fleet, Base Petropavlovsk Kamchatskiy = RCC
- M = Pacific Fleet, Base Magadan = RTS

The SLHFB "A" is related to the Caspian Sea Flotilla (HQ Astrakhan), but for this one I don't have the ITU callsign.

Their collective call is RKN, means bulletins for all members of this flotilla are addressed to RKN. These transmissions are sometimes reported to be coming maybe from the Black Sea Fleet COMSTA "RCV"? But so far we haven't any official QSL for this. (BTW QSL, the Baltic Sea Fleet COMSTA "RMP" aka "P" recently send out real QSLs for SWL reports too !) For the Caspians we never saw any "RKN de RCV" preamble (as all the other fleet COMSTAs always do "REO DE RMP QTC ... "), therefore we can't be sure if they don't have an own larger Caspian HQ COMSTA who handles to the "A beacon" transmission from (near) Astrakhan itself. And it would be silly if the propagation beacon A comes from the same area as D/RCV...hi Maybe any local Russian MS-members could confirm any Caspian flotilla COMSTA (callsign?, address for SWL reports etc.) ? BTW, "bulletins" by the COMSTAs are not send via channels of the cluster beacon sub-system - that system just act as a simple propagation beacon network.

IRTS – Ireland – EI4GXB (Ger)

KARS – Kuwait – 9K2RR (Faisal)

MRASZ – Hungary - HA7PL (Laci)

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	DETAILS
MRASZ	7000,0	VT	VD	11	FSK8 (ALE)	USA	UiMUX	125	1750	US ARMY net.
MRASZ	7000,0	VT	VD	11	FSK8 (ALE)	I	UiMUX	125	1750	ITALIAN CARABINIERI
MRASZ	7000,0	VT	VD	11	FSK8 (ALE)	Ui	UiMUX	125	1750	LEL -GLT NETWORK
MRASZ	7008,0	VT	VD	11	FSK8 (ALE)	Ui	UiMUX	125	1750	2222 SOUNDED 7601 SOUNDED.
MRASZ	7010,0	VT	VD	11	FSK8 (ALE)	Ui	UiMUX	125	1750	CS - RS net
MRASZ	7014,0	VT	VD	11	FSK8	Ui	ALE	125	1750	237 - 299 NEW UNID
MRASZ	7014,0	VT	VD	11	FSK8	NIG	ALE	125	1750	411412 NIGERIAN POLICE AGAIN.
MRASZ	7020,0	VT	VD	11	FSK8 (ALE)	Ui	UiMUX	125	1750	CS - RS net
MRASZ	7020,0	VT	VD	11	FSK8 (ALE)	GER	UiMUX	125	1750	ZLST CONTACTED ZHEL. GERMAN CUSTOMS.
MRASZ	7026,0	VT	VD	11	FSK8 (ALE)	Ui	UiMUX	125	1750	642-314 UNKNOWN NET, 523 (FORMER CALLSIGNS: 431, 417)
MRASZ	7045,0	VT	VD	11	FSK8 (ALE)	Ui	UiMUX	125	1750	1001, 2001 SOUNDED F001-NET
MRASZ	7029,0	VT	VD	11	FSK8 (ALE)	Ui	UiMUX	125	1750	378 - 864 NEW UNID NET.
MRASZ	7044,0	VT	VD	11	FSK8 (ALE)	Ui	UiMUX	125	1750	186 - 594 UNID
MRASZ	7047,0	VT	VD	11	FSK8 (ALE)	Ui	UiMUX	125	1750	003 - 203 UNID
MRASZ	7055,0	VT	VD	11	FSK8 (ALE)	GER	UiMUX	125	1750	BUNDESPOLIZEI SEE. ZLST HQ CALLS (zoll leitstelle Cuxhaven) - ZRUE (zollboot Ruegen), ZHOH (zollboot Hohwacht), ZHEL (zollboot Helgoland). NEW FREQUENCY USAGE.
MRASZ	7059,0	VT	VD	11	FSK8 (ALE)	Ui	UiMUX	125	1750	NEW UNID: 576 - 174
MRASZ	7051,0	VT	VD	11	FSK8 (ALE)	Ui	UiMUX	125	1750	1005 - 1101
MRASZ	7059,0	VT	VD	11	FSK8 (ALE)	Ui	UiMUX	125	1750	NEW UNID: 576 - 174
MRASZ	7061,0	VT	VD	11	FSK8 (ALE)	NIG	UiMUX	125	1750	2111 NIGERIAN POLICE AGAIN.
MRASZ	7070,0	VT	VD	11	FSK8 (ALE)	GEO	UiMUX	125	1750	244-288 NET POSSIBLE GEORGIAN.
MRASZ	7071,0	VT	VD	11	FSK8 (ALE)	GER	UiMUX	125	1750	BUNDESPOLIZEI SEE (WEAK)
MRASZ	7076,0	VT	VD	11	FSK8 (ALE)	GER	UiMUX	125	1750	BUNDESPOLIZEI SEE. ZLST HQ CALLS (zoll leitstelle Cuxhaven) - ZRUE (zollboot Ruegen), ZHOH (zollboot Hohwacht), ZHEL (zollboot Helgoland), ZBOR UNID
MRASZ	7077,0	VT	VD	11	FSK8 (ALE)	GEO	UiMUX	125	1750	244 - 726, 918 NET MIGHT BE GEORGIAN. NEW FREQUENCY USAGE.

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	DETAILS
MRASZ	7080,0	VT	VD	11	FSK8 (ALE)	ALB	UiMUX	125	1750	ALBANIAN MoPO. 5810 SOUNDING
MRASZ	7083,0	VT	VD	11	FSK8 (ALE)	Ui	UiMUX	125	1750	378 - 864 NEW UNID NET.
MRASZ	7086,0	VT	VD	11	FSK8 (ALE)	Ui	UiMUX	125	1750	185 - 112 UNID
MRASZ	7088,0	VT	VD	11	FSK8 (ALE)	Ui	UiMUX	125	1750	317 - 351 UNID
MRASZ	7091,0	VT	VD	11	FSK8 (ALE)	ALG	UiMUX	125	1750	A04 - A01 ALGERIAN FORCES.
MRASZ	7092,0	VT	VD	11	FSK8 (ALE)	Ui	UiMUX	125	1750	4001, 2001 SUBNETS LOTS OF CALLSIGNS. F001 NET.
MRASZ	7092,0	VT	VD	11	FSK8 (ALE)	Ui	UiMUX	125	1750	106 - 103 UNID
MRASZ	7095,0	VT	VD	11	FSK8 (ALE)	Ui	UiMUX	125	1750	110 - 110???? WEAK UNREADABLE
MRASZ	7095,0	VT	VD	11	FSK8 (ALE)	Ui	UiMUX	125	1750	39M - 1101AG UNID
MRASZ	7096,0	VT	VD	11	FSK8 (ALE)	Ui	UiMUX	125	1750	103, 105, 217, 104. UNID
MRASZ	7098,0	VT	VD	11	FSK8 (ALE)	Ui	UiMUX	125	1750	930 - 202,585 NEW UNID
MRASZ	7110,0	VT	VD	11	FSK8 (ALE)	Ui	UiMUX	125	1750	394 - 672, 736 - 568 NEW UNID
MRASZ	7104,0	VT	VD	11	FSK8 (ALE)	Ui	UiMUX	125	1750	912 - 754 NEW UNID.
MRASZ	7106,0	VT	VD	11	FSK8 (ALE)	GER	UiMUX	125	1750	BUNDESPOLIZEI SEE. ZLST HQ CALLS (zoll leitstelle Cuxhaven) - ZRUE (zollboot Ruegen), ZHOH (zollboot Hohwacht), ZHEL (zollboot Helgoland). NEW FREQUENCY USAGE.
MRASZ	7115,0	VT	VD	11	FSK8 (ALE)	Ui	UiMUX	125	1750	1101, 1703 AND 4 - FIGURES NET UNID.
MRASZ	7116,0	VT	VD	11	FSK8 (ALE)	Ui	UiMUX	125	1750	1, 3 SOUNDED. NEW INTRUDER.
MRASZ	7120,0	VT	VD	11	FSK8 (ALE)	Ui	UiMUX	125	1750	103, 104, 105, 106, 117. UNID NEW INTRUDER.
MRASZ	7141,0	VT	VD	11	FSK8 (ALE)	Ui	UiMUX	125	1750	7839 SOUNDED
MRASZ	7149,0	VT	VD	11	FSK8 (ALE)	ALB	UiMUX	125	1750	ALBANIAN MoPO. 5810 SOUNDING
MRASZ	7197,0	VT	VD	11	FSK8 (ALE)	TUR	UiMUX	125	1750	Red Crescent TURKEY 4 FIGURES NET. CALLSIGNS: 8161, 8211, 8351, 9850, 9855, 3000, 3062, 3161, 3251, 3421, 3541
MRASZ	7197,0	VT	VD	11	FSK8 (ALE)	Ui	UiMUX	125	1750	123456 SOUNDED.
MRASZ	21135,2	VT	VD	11	FSK8 (ALE)	Ui	UiMUX	125	1750	WA3 - FS30 UNID NEW.

REP – Portugal – CT4AN (Jose Francisco)

SOC	KHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REP	3500	22.00	26	11	I		A3E			Pirate Italy DLY
REP	3502	22.50	21	11	I		J3E-L			Italian pirates
REP	3535	07.20	10	11	E		J3E-L			Spanish fishers at sea, Balear islands
REP	3540	20.05	27	11	I	I1YRW	A1A			Beacon out of IARU Recommendations
REP	3550	07.39	09	11	F	French Amateurs	A3E-AM			French Amateurs DAILY !!! INFRINGE IARU BAND PLAN
REP	3560	18.25	08	11	KRE		8k00 A3EGN			BC Voice of Korea – abt daily -
REP	3575	08.01	08	11	F	French Amateurs	A3E-AM			French Amateurs DAILY !!! INFRINGE IARU BAND PLAN
REP	3577	19.45	28	11	I	IZ3DVW	A1A			Beacon out of IARU Recommendations
REP	3580	18.30	29	11	E		J3E-U			Spanish fishery ref. La Coruna
REP	3756	02.22	12	11	UKR		A2A			Pulse, 1 bps 25uV S8
REP	7000	00.20	12	11	E		J3E-L			Ola, Ola + tuning 25uV S8
REP	7000	15.01	07	11		V	A1A			Marker
REP	7001,3	02.55	09	11	E		J3E-U			Spanish fishermen 25uV S8
REP	7020	22.51	19	11			J3E-L			Arab talks
REP	7025	17.12	23	11	E		J3E-L			Spanish fishers - Huelva
REP	7030	15.28	15	11			F1B	75	250	
REP	7038,6	08.20	11	11	RUS	S	A1A			MURMANSK, ADY, DLY 3.1uV S5
REP	7038,7	07.10	18	11	UKR	D	A1A			SEVASTOPOL, ADY, DLY 25uV S8
REP	7038,7	14.20	23	11	UKR	D	A1A			SEVASTOPOL, ADY, DLY 0.2uV S1
REP	7038,7	23.05	26	11	UKR	D	A1A			SEVASTOPOL Beacon 12.5uV S7
REP	7039,0	07.02	10	11	RUS	C	A1A			MOSCOW, ADY, DLY 6.3uV S6
REP	7039,0	07.10	08	11	I	K IZ3DVW	A1A			Beacon out of IARU Recommendations
REP	7039,0	20.18	19	11	I	K IZ3DVW	A1A			Beacon out of IARU Recommendations
REP	7039	23.03	26	11	RUS	C	A1A			MOSCOW Beacon 50uV S9
REP	7039,1	18.37	28	11	RUS	A	A1A			VOLGOGRAD, ADY, DLY 3.1uV S5
REP	7039,1	21.12	28	11	RUS	A	A1A			VOLGOGRAD, ADY, DLY 6.3uV S6
REP	7039,0	07.30	28	11	I	K IZ3DVW	A1A			MONSELICE, Italian Beacon out of IARU recommendations 3.1uV S5
REP	7041	17.36	26	11			F1B	75	200	
REP	7043	23.49	11	11			J3E-U			Arabic language 1.6uV S4
REP	7100	20.33	29	11	KRE		8k00 A3EGN			Voice of Korea 1581uV S9+30dB
REP	7105	21.50	06	11	BLR		8k00 A3EGN			BC R Belarus
REP	7105	22.00	05	11	CHN		8k00 A3EGN			BC R.China - abt daily -
REP	7105	23.11	06	11	CHN		8k00 A3EGN			Carrier - Chinese BC - talks and music
REP	7105	23.25	04	11	TWN		8k00 A3EGN			R. Sound of Hope - English lang.
REP	7110	08.00	25	11	THA		8k00 A3EGN			BC R. Thailand
REP	7110	18.55	18	11	ETH		8k00			R. Ethiopia 500uV

SOC	KHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
							A3EGN			S9+40dB
REP	7125	07.15	27	11	CHN		8k00 A3EGN			BC R. Tibet People also at 2300 Z
REP	7130	22.45	25	11	GUI		8k00 A3EGN			BC R. Guinee'
REP	7135	02.34	18	11	ETH		8k00 A3EGN			Radio Ethiopia giving News
REP	7145	02.03	16	11	SOM		8k00 A3EGN			Radio Hargheisa
REP	7165	01.29	17	11	ETH		8K00 A3EGN			Radio Ethiopia -music
REP	7165	02.45	17	11	ETH		8k00 A3EGN			Radio Asmara - music
REP	7175	19.25	06	11			8k00 A3EGN			BC Songs politic talks Chinese lang ?
REP	7180	23.15	07	11	KRE		8k00 A3EGN			BC Voice of Korea
REP	7190	23.45	08	11	MRC		8K00 A3EGN			Radio Rabat - music and News
REP	7195	21.10	05	11	MRC		8k00 A3EGN			R. Tanger
REP	7200	20.11	29	11	SDN		8k00 A3EGN			R. Omdurman – Overlapping Ham Band 500uV S9+40dB
REP	10105	22.20	21	11	MLA		J3E-U			Malaysian fishers
REP	10106	19.30	30	11			J3E-U			? Malaysia fishers male voices
REP	10120	19.10	28	11			J3E-U			? Malaysia fishers male voices
REP	10131	15.22	14	11			F1B	200	200	
REP	10136	19.22	14	11			J3E-U			Scrambled voices, 500Hz wide
REP	10137	11.05	25	11	I	IK3NWX	A1A			Beacon out of IARU Recommendations
REP	10149	11.35	25	11	I	IZ8BZX	A1A			Beacon out of IARU Recommendations
REP	14000	07.36	20	11	E		J3E-U			Spanish fishers - Ceuta harbour
REP	14005	07.15	08	11	E		J3E-U			Spanish fishery
REP	14165	19.10	30	11			J3E-U			English talks - family Phone patch

***** MERRY CHRISTMAS AND HAPPY NEW YEAR** from Portuguese Amateur Radio ***

RSGB - Great Britain – G4BOH (Chris)

SRAL – Finland – OH2BLU (Pekka)

Society	QRG	UTC	DD	MM	ITU	IDENT	MODE	SHIFT	REMARKS
SRAL	7000,0	0910	10	11		UiPRT	F1B	250	
SRAL	7000,0	0240	6	11		UiBC	A3E		
SRAL	7008,0	0900-1000	10	11		UiPRT	F1B	250	
SRAL	7011,0	0930-1000	10	11		UiPRT	F1B	250	
SRAL	7012,0	1215	11	11		UiPRT	F1B	250	
SRAL	7017,0	1100-1430	7	11	RUS	REA4	F1B	1000	
SRAL	7018,0	1100-2100	*	11	RUS	REA4	F1B	1000/500	Days 1 to 6 & 8 to 30
SRAL	7028,2	0940	10	11		UiPRT	F1B	250	
SRAL	7030,0	0935	10	11		UiPRT	F1B	250	
SRAL	7031,9	0900-	10	11		UiPRT	F1B	250	

Society	QRG	UTC	DD	MM	ITU	IDENT	MODE	SHIFT	REMARKS
		1020							
SRAL	7038,7	h24	dly	11	UKR	D	A1A		Sevastopol
SRAL	7038,8	0700-1330	29-30	11	RUS	P	A1A		Kaliningrad
SRAL	7038,9	h24	dly	11	RUS	S	A1A		Severomorsk
SRAL	7039,0	0530-1400	23-30	11	RUS	C	A1A		Moscow
SRAL	7047,0	0600-0930	2, 23	11	RUS	UiMUX	J7D		
SRAL	7048,2	0950	3	11		UiPTR	F1B	500	
SRAL	7052,0	1340	10	11		UiPTR	F1B		
SRAL	7054,0	0400-0800	*	11	RUS	UiPTR	F1B	200	25 Hz dotter, 17 days
SRAL	7054,0	1800-2100	*	11	RUS	UiPTR	F1B	200	25 Hz dotter, 17 days
SRAL	7070,5	0915	12	11		UiPTR	F1B	250	
SRAL	7072,0	1100-1300	12	11		UiPTR	F1B	150	
SRAL	7079,0	0930-1200	28	11		UiMUX	J7D		
SRAL	7080,0	0640	3	11	RUS	UiPTR	F1B	200	
SRAL	7089,0	0645-1430	6,16,30	11		UiMUX	J7D		
SRAL	7098,0	0700-1600	*	11		UiPTR	F1B	250	Days 11, 12, 21
SRAL	7100,0	1800-2100	dly	11	KRE	VoKorea	A3E		
SRAL	7100,0	1730-1830	8	11	IRN	VoIran	A3E		
SRAL	7110,0	*	dly	11	ETH	R Eth.	A3E		0330-0530, 1330-2100
SRAL	7111,0	1110	18	11		UiPTR	F1B	250	
SRAL	7114,0	0830-1300	21, 27	11		UiMUX	F1B		
SRAL	7118,0	0800-1200	*	11		UiPTR	F1B	228	6 days
SRAL	7120,0	0610-1030	25	11		UiMUX	J7D		
SRAL	7122,0	0900-1030	20	11		UiPTR	F1B	250	
SRAL	7125,0	1045-1140	30	11		UiMUX	J7D		
SRAL	7125,0	1700-2030	*	11	GUI	BC	A3E		10 days
SRAL	7140,0	0800-1300	dly	11	KRE	R. Korea	A3E		
SRAL	7142,0	0700-1330	*	11		UiPTR	F1B	250	6 days
SRAL	7144,0	0700-1200	7,14	11		UiMux	J7D		
SRAL	7149,0	0630-0830	3	11		UiPTR	F1B	500	
SRAL	7149,5	0830-1430	2	11		UiMUX	J7D		
SRAL	7162,0	1010	11	11		UiPTR	F1B	250	
SRAL	7165,0	0400-0600	dly	11	ETH	R ETH	A3E		Some times jammed
SRAL	7165,0	1230-2000	dly	11	ETH	R ETH	A3E		Some times jammed
SRAL	7167,0	1245	16	11		UiPTR	F1B	200	
SRAL	7175,0	0330-0530	dly	11	ERI	VoBME	A3E		Some times jammed
SRAL	7175,0	1230-2000	dly	11	ERI	VoBME	A3E		Some times jammed
SRAL	7178,0	0745-0800	13	11		UiMUX	J7D		

Society	QRG	UTC	DD	MM	ITU	IDENT	MODE	SHIFT	REMARKS
SRAL	7184,5	1040-1140	29	11		UiMUX	J7D		
SRAL	7186,0	0830-1530	*	11		UiMUX	J7D		Days 1, 5, 10, 23
SRAL	7188,0	0730-1130	*	11		UiPTR	F1B	228	Days 2, 7, 15, 18
SRAL	7190,0	0800-0930	2	11		UiMUX	J7D		
SRAL	7193,0	0800-1330	*	11		UiPTR	F1B/N0N	200	Days 24, 26, 28
SRAL	7197,0	2040	5	11		UiMUX	J7D		
SRAL	7198,0	0800-1300	3,10	11		UiMUX	J7D		
SRAL	7200,0	1200-2100	dly	11	SDN	R Sudan	A3E		
SRAL	7200,0	0200-1100	dly	11	RUS	R Rossii	A3E		
SRAL	14077,4	0800-1000	27, 29	11	UKR	D	A1A		2f, Sevastopol
SRAL	14086	0725	20	11		UiMUX	J7D		
SRAL	14295,1	0630-1300	dly	11	TJK	R Tojikiston	A3E		3f 4765 kHz, Yangiyul TX

USKA – Switzerland – HB9CET (Peter)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
USKA	7000.0	1529	01	11		T1Z	MFSK8	125	1750	MIL 188-141A, ALE * daily
USKA	7000.0	1532	01	11		T1Z130	MFSK8	125	1750	MIL 188-141A, ALE * daily
USKA	7000.0	1541	01	11		T1Z150	MFSK8	125	1750	MIL 188-141A, ALE * daily
USKA	7000.0	1546	01	11		SHDT0C	MFSK8	125	1750	MIL 188-141A, ALE * daily
USKA	7000.0	1558	01	11		T28CAB	MFSK8	125	1750	MIL 188-141A, ALE * daily
USKA	7000.0	1631	01	11		SHD	MFSK8	125	1750	MIL 188-141A, ALE * daily
USKA	7000.0	2000	02	11		GUNTOC	MFSK8	125	1750	MIL 188-141A, ALE * daily
USKA	7000.0	2033	02	11		TC1Z52	MFSK8	125	1750	MIL 188-141A, ALE * daily
USKA	7000.0	2036	02	11		TC7158	MFSK8	125	1750	MIL 188-141A, ALE * daily
USKA	7000.0	2103	02	11		TC7	MFSK8	125	1750	MIL 188-141A, ALE * daily
USKA	7000.0	2032	03	11		T2Z104	MFSK8	125	1750	MIL 188-141A, ALE * daily
USKA	7000.0	1409	05	11			J3E-U			unid language
USKA	7000.0	1423	05	11			N0N			long lasting carrier frequently
USKA	7000.0	1502	05	11		R39	MFSK8	125	1750	MIL 188-141A, ALE
USKA	7000.0	2324	12	11			J3E-U			spanish language
USKA	7000.0	1518	25	11	E	Bravo ##	J3E-U			spanish, no hams; strong - Call-signs: "Bravo" plus a number.
USKA	7000.500	1446	10	11			N0N			long-lasting carrier
USKA	7000.846	1613	01	11			N0N			long-lasting carrier
USKA	7001.5	1521	25	11			Noise		~2500	jamming, unid
USKA	7002.0	2332	12	11			J3E-U			unid language
USKA	7001.8	1454	18	11			PSK8	2400		MIL 188-110A
USKA	7010.0	0917	02	11	MKD	RS0016A	MFSK8	125	1750	MIL 188-141A, ALE daily
USKA	7010.0	0931	02	11		CS002B	MFSK8	125	1750	MIL 188-141A, ALE daily
USKA	7010.0	1047	19	11		RS008	MFSK8	125	1750	MIL 188-141A, ALE daily
USKA	7012.7	2133	19	11			N0N			long-lasting carrier; switching in 100Hz steps
USKA	7012.9	1050	19	11			N0N			"
USKA	7013.1	2038	19	11			N0N			"
USKA	7013.3	1449	19	11			N0N			"
USKA	7018.0	1638	01	11	RUS	REA4	F1B	50	1000	REA4, sometimes 500Hz
USKA	7018.0	1151	02	11	RUS	REA4	F1B	50	500	REA4, also 1000 Hz Sh
USKA	7018.0	1641	03	11	RUS	REA4	F1A			CW, followed by F1B 1000Hz
USKA	7020.0	1514	03	11		CS004A	MFSK8	125	1750	MIL 188-141A, ALE daily
USKA	7021.8	1311	10	11			PSK8	2400		MIL 188-110A - Frame Format 75 bps short
USKA	7021.8	1313	10	11			PSK8	2400		MIL 188-110A - Frame Format 2400 bps (Data) long

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
USKA	7021.8	1317	10	11			PSK8	2400		MIL 188-110A - Frame Format 300 bps long
USKA	7021.8	1339	10	11			PSK8	2400		MIL 188-110A - Frame Format 75 bps long
USKA	7021.8	1340	10	11			PSK8	2400		MIL 188-110A - Frame Format 600 bps short
USKA	7038.7	1048	01	11	UKR	D	A1A			Beacon D Sevastopol daily
USKA	7038.8	0921	30	11	RUS	P	A1A			Beacon P Kaliningrad daily
USKA	7038.9	1047	01	11	RUS	S	A1A			Beacon S Murmansk daily
USKA	7039.0	2308	02	11	RUS	C	A1A			Beacon C Moscow daily
USKA	7039.2	1527	25	11	RUS	F	A1A			Beacon F Vladivostok daily
USKA	7041.0	2113	19	11			MFSK8	125	1750	MIL 188-141A, ALE
USKA	7041.5	1057	24	11			F1B	100	200	unid
USKA	7044.5	1914	04	11			?		~2400	undefinable signal daily
USKA	7047.0	0841	23	11			J7D	12x120	2600	PSK-2: CIS 12 = AT3004D
USKA	7052.0	1306	10	11			F1B	50	250	unid
USKA	7054.0	1917	01	11			F1B	50	200	unid daily
USKA	7055.5	1807	30	11		168	MFSK8	125	1750	MIL 188-141A, ALE, frequently
USKA	7055.5	1808	30	11		145	MFSK8	125	1750	MIL 188-141A, ALE, frequently
USKA	7056.750	1835	30	11			N0N			long-lasting carrier
USKA	7072.0	1057	12	11			F1B	100	150	unid
USKA	7076.0	2012	26	11			F1B	75	250	unid
USKA	7079.0	2024	19	11			J7D	12x120	2600	PSK-2: CIS 12 = AT3004D
USKA	7089.0	0941	30	11			J7D	12x120	2600	PSK-2: CIS 12 = AT3004D
USKA	7089.7	2321	08	11			PSK8	2400	2500	Link11 SLEW frequently
USKA	7089.9	1434	02	11			F1C	60rpm		Wefax 60rpm IOC 576 daily
USKA	7089.9	1421	26	11			F1C	60rpm		Wefax 60rpm IOC 576 daily
USKA	7095.5	1321	18	11			OFDM			unid
USKA	7096.0	1336	05	11			OFDM			unid
USKA	7098.0	1353	12	11			F1B	75	250	unid
USKA	7100.0	1910	10	11			A3E			BC
USKA	7105.0	2159	02	11			A3E			BC, chinese language daily
USKA	7110.0	1504	01	11			A3E			BC daily
USKA	7113.0	1733	10	11			J7D	12x120	2600	PSK-2: CIS 12 = AT3004D
USKA	7114.0	1052	17	11			J7D	12x120	2600	PSK-2: CIS 12 = AT3004D
USKA	7116.0	1356	12	11			F1B	75	200	unid
USKA	7118.0	0845	23	11			F1B	75	250	unid
USKA	7130.0	1749	01	11			A3E			BC daily
USKA	7130.0	0849	23	11			F1B	50	1000	unid
USKA	7140.0	1702	24	11		1703	MFSK8	125	1750	MIL 188-141A, ALE daily
USKA	7140.0	1710	24	11		171	MFSK8	125	1750	MIL 188-141A, ALE daily
USKA	7142.0	0947	30	11			F1B	75	250	unid
USKA	7142.0	1241	30	11			F1B	150	250	unid (not 75Bd)
USKA	7149.5	0844	02	11			J7D	12x120	2600	PSK-2: CIS 12 = AT3004D
USKA	7165.0	1503	01	11			A3E			BC daily
USKA	7165.0	1617	30	11			Jammer			Jammer, $\geq \pm 4$ kHz wide
USKA	7172.0	1554	26	11			F1B	50	200	unid
USKA	7175.0	1459	01	11			A3E			BC daily
USKA	7178.0	1434	10	11			J7D	12x120	2600	PSK-2: CIS 12 = AT3004D
USKA	7186.0	1502	01	11			J7D	12x120	2600	PSK-2: CIS 12 = AT3004D daily
USKA	7188.0	1049	02	11			F1B	75	250	unid almost daily
USKA	7192.9	1011	26	11			N0N			long-lasting carrier, over hours
USKA	7193.0	1118	24	11			F1B	50	200	unid almost daily
USKA	7198.0	2138	13	11			J7D	12x120	2600	PSK-2: CIS 12 = AT3004D
USKA	7200.0	1735	10	11			A3E			BC daily
USKA	14064.0	0853	23	11			MFSK8	125	1750	MIL 188-141A, ALE
USKA	14139.0	1103	30	11		434	MFSK8	125	1750	MIL 188-141A, ALE
USKA	14141.0	0924	16	11			F1B	75	500	unid
USKA	14268.0	0955	30	11			A1A	15wpm		many special characters
USKA	14272.0	1342	09	11			F1B	75	500	unid
USKA	21116.1	1028	26	11			A1A			Beacon D, 3 rd of 7038.7
USKA	21438.0	1114	02	11	RUS		A1A			unid various days

*) This ALE MIL 188-141A Stations have been reported as US Forces in Irak

Veron 1 – Netherlands – PA0GRU (Dick)

SOC	kHz	UTC	DD	MM	ITU	IDENT	Mode	SHIFT	DETAILS
VERON	3553,0	21.51	18	11	TUR	UiMux	G7D		Stanag4285, 2k3 wide
VERON	3593,7	21.49	18	11	UKR	D	A1A		Beacon Sevastopol
VERON	3699.6	18.09	21	11	RUS	P	A1A		Beacon Kaliningrad
VERON	3732,0	vt	vd	11		UiMux	J7D		MPSK-16; also on day 21
VERON	3755,0	21.36	18	11					"PIP" around this frequency
VERON	3781,5	21.21	7	11	POR	UiPtr	F1B	850	Printer; also on day 18
VERON	7000,2	18.52	12	11	E	UnLis	J3E-L		Spanish fishery
VERON	7010,9	13.26	24	11	E	UiLL	J3E-u		Spanish fishery
VERON	7017,5	13.51	5	11	RUS	UiPtr	F1B	1000	Revs/ptr; also on day 20 and 27
VERON	7018,0	1843	12	11		UiPtr	F1B	500	Revs/printer; also on day 14
VERON	7038,7	13.49	5	11	UKR	D	A1A		Beacon Sevastopol; heard on 9 days
VERON	7038,8	13.24	29	11	RUS	P	A1A		Beacon Kaliningrad
VERON	7038,9	13.49	5	11	RUS	S	A1A		Beacon Murmansk; heard on 6 days
VERON	7039,0	13.23	24	11	RUS	C	A1A		Beacon Moscow; also on day 27
VERON	7054,0	23.30	7	11	RUS	UiPtr	F1B	200	Revs/printer; bad filter; also on day 12
VERON	7097,5	14.59	21	11		UiPtr	F1B	250	Printer
VERON	7100,0	20.15	14	11	KRE	VOK	A3E		Speech
VERON	7105,0	22.27	7	11	TWN	SOH	A3E		Chinese language; S9+10 with deep QSB
VERON	7110,0	18.28	12	11	ETH	R.Ethiopia	A3E		Speech & Afr. Music; 7 days; s8 to s9+10
VERON	7115,0	15.34	26	11		UiBC	A3E		S7; also jammer on this frequency
VERON	7125,0	23.08	7	11	GUI	R.Conakry	A3E		s7; also on day 18 and 21
VERON	7165,0	18.21	12	11	ETH	R.Ethiopia	A3E		Mainly music; s9+10; 4 days
VERON	7165,0	15.51	20	11	ERI	VMBE	A3E		Mainly speech; s8 to s9+10; 4 days
VERON	7180,0	22.24	7	11	KRE	VOK	A3E		S9+10; also on day 18
VERON	7200,0	21.16	18	11	IRN	VOIRI	A3E		Spanish speech, S9+10
VERON	7200,0	15.49	20	11	F	GFA	A3E		Gospel music; S3
VERON	7200,0	15.28	26	11	SDN	SRTC	A3E		Arab. speech & music; S9; also on day 27
VERON	10100,8	14.56	25	11	D	UiPtr	F1B	500	Printer; German Weather?; heard 7 days
VERON	10112,0	15.06	4	11	TUR	UiMux	G7D		Stanag4285, 2k5 wide; 11 days
VERON	10122,0	11.20	17	11		UiMux	J7D		MPSK-8
VERON	10130,0	11.21	17	11		UiPtr	F1B	450	Revs/ptr; bad filter
VERON	10144,5	14.39	23	11					Frequency hopper
VERON	10148,0	15.00	25	11		UiMux	J7D		MPSK-8
VERON	10149,2	13.40	5	11		UiMux	J7D		MPSK-8; 7 days
VERON	14000,0	13.11	19	11		UiBC	A3E		Popmusic & French speech; S6
VERON	14000,0	11.49	26	11		OTHR	PON		50pps system, 6k wide
VERON	14010,0	18.04	12	11					Frequency hopper
VERON	14048,0	18.06	12	11					Frequency hopper
VERON	14078,0	14.21	18	11					Frequency hopper
VERON	14078,3	14.18	23	11		UiPtr	F1B	850	Printer
VERON	14101,7	11.56	26	11		UiMux	J7D		MPSK-8, 2k7 wide
VERON	14109,0	12.00	26	11		OTHR	PON		50pps system
VERON	14114,0	12.03	26	11		UiMux	J7D		MPSK-2, 1k wide
VERON	14116,2	12.51	24	11		UiPtr	F1B	1000	Revs/Printer
VERON	14234,0	14.45	25	11		UiMux	J7D		MPSK-12
VERON	18167,0	12.52	14	11					Frequency hopper
VERON	21002,0	11.30	26	11		OTHR	PON		50pps system
VERON	21062,0	11.36	26	11		OTHR	PON		50pps system
VERON	21213,0	14.20	25	11					Frequency hopper
VERON	21222,2	14.58	17	11					Frequency hopper
VERON	21360,1	15.00	17	11					Frequency hopper
VERON	21430,0	11.44	26	11		OTHR	PON		30pps system, 22k wide

SOC	kHz	UTC	DD	MM	ITU	IDENT	Mode	SHIFT	DETAILS
VERON	24890,0	14.30	6	11					Frequency hopper
VERON	24898,5	12.34	24	11		UiMux	J7D		MPSK-8
VERON	24960,0	14.32	6	11					Frequency hopper
VERON	28051,0	13.42	4	11		UiCar			Persistent carrier S7
VERON	28137,0	11.31	12	11					Frequency hopper
VERON	28313,9	13:56	4	11		UiCar			Persistent carrier S7
VERON	28326,0	11.35	12	11					Frequency hopper
VERON	28360,0	14.49	17	11					Frequency hopper

Veron 2 – Netherlands – PA0GRU (Dick)

SOC	kHz	UTC	DD	MM	ITU	IDENT	Mode	SHIFT	DETAILS
VERON	3775,0	16.42	22	11	CIS	UiCW	A1A		5F cyrilic
VERON	7018,0	16.14	27	11	RUS	UiPtr	F1B	1000	Revs
VERON	7018,0	vt	vd	11		UiPTR	F1B		Revs
VERON	7025,0	09.58	11	11		UiILL	J3e-L		male-"do u read me Greg?" 4x times
VERON	7038,7	vt	vd	11	UKR	D	A1A		beacon, 6 days
VERON	7038,7	vt	vd	11	UKR	D	A1A		D-beacon
VERON	7038,8	vt	vd	11	RUS	P	A1A		beacon, 2 days
VERON	7038,9	vt	vd	11	RUS	S	A1A		S-beacon
VERON	7039,0	vt	vd	11	RUS	C	A1A		C-beacon
VERON	7054,0	vt	vd	11	RUS	UiPtr	F1B	200	4 days, Revs, Airforce nr Moscow
VERON	7054,0	19.15	26	11		UiPTR	F1B		Ptr
VERON	7100,0	18.39	8	11	KRE	VOK	A3E		speech+music S-9, also 12/11
VERON	7105,0	20.36	2	11		UiBC	A3E		Arabic music+speech
VERON	7110,0	19.41	17	11	ETH	R.Ethiop	A3E		music, also 19/11,26/11
VERON	7165,0	16.11	3	11		UiBC	A3E		music
VERON	7165,0	16.12	3	11		UiMUX	J7D		12 MPSK
VERON	7165,0	18.28	8	11	ETH	R.Ethiop	A3E		music
VERON	7175,0	vt	vd	11	ERI	VOBM	A3E		5 days, music+speech
VERON	7179,0	13.43	17	11	CIS	IZZG	A1A		Proc's/5BL
VERON	7200,0	19.36	19	11		UiILL	J3e-L		male voices
VERON	7200,0	19.25	26	11		UiBC	A3E		music+speech, Asiatic language
VERON	7200,0	15.25	30	11		UiBC	A3E		speech, Russian language
VERON	10130,0	vt	vd	11		UiPTR	F1B		Revs
VERON	14085,0	07.53	20	11		UiMUX	J7D		12 MPSK
VERON	14269,0	10.22	25	11		UiMUX	J7D		12 MPSK
VERON	14272,0	13.32	9	11		UiPTR	F1B		Ptr
VERON	14280,0	10.15	25	11		UiILL	A3E		female computer voice 5F,german language
VERON	14308,0	10.00	26	11		UiPTR	F1B		Ptr
VERON	18076,0	10.41	16	11		OHTR	PON		radar, wide 18068-18080 KHz
VERON	21210,0	10.47	16	11		OHTR	PON		radar, wide 21196-21223 KHz

Veron 2 – Netherlands – PA0GRU (Dick)

SOC	kHz	UTC	DD	MM	ITU	IDENT	Mode	SHIFT	DETAILS
VERON	7018,0	13.55	vd	11	RUS	REA4	F1B	1000	16.18 utc, Revs, 8 days
VERON	7018,0	15.38	8	11	RUS	REA4	F1A	1000	5F, Ends = REA4 K
VERON	7018,5	13.40	3	11	RUS	REA4	A1A		REA4=03130 23672 97215 etc=REA4 K
VERON	7036,3	07.50	vd	11	RUS	UiMUX	J7D		12 MPSK AT-3004-D, 8 days
VERON	7038,7	06.45	vd	11	UKR	D	A1A		16.21 utc, beacon, 13 days
VERON	7038,9	06.45	vd	11	RUS	S	A1A		15.32 utc, beacon, 13 days
VERON	7039,0	14.24	vd	11	RUS	C	A1A		15.12 utc, beacon Moscow, 5 days
VERON	7039,2	08.43	vd	11	RUS	F	A1A		15.31 utc, beacon, 4 days
VERON	7043,0	08.20	20	11		UiCW	A1A		08.50 utc, strings of cyrillic letters
VERON	7054,0	06.47	vd	11	RUS	UiPtr	F1B	200	07.57 utc, 5 days, Revs
VERON	7098,0	15.26	21	11		UiPtr	F1B	250	Ptr
VERON	7118,0	08.47	vd	11		UiPtr	F1B	250	09.26 utc, Revs, 2 days
VERON	7122,3	08.13	4	11	CIS	UiCW	A1A		figures, Z-codes

SOC	kHz	UTC	DD	MM	ITU	IDENT	Mode	SHIFT	DETAILS
VERON	7122,3	07.52	6	11	CIS	P5BY	A1A		strings of figures
VERON	7122,3	15.55	6	11	CIS	UiCW	A1A		figures, Z-codes
VERON	7122,3	11.06	9	11	CIS	TADG	A1A		figures,
VERON	7122,3	07.03	13	11		ZDHA	A1A		to ZB5R,WDCC,: Proc
VERON	7122,3	07.11	13	11		J6ZC	A1A		figures sent by handkey
VERON	7122,4	16.02	21	11		WZUT	A1A		to CZT6: proc
VERON	7122,4	08.54	23	11		OLYZ	A1A		figures/handsent morse
VERON	7122,4	08.11	24	11		DPPR	A1A		figures/handsent morse
VERON	7122,4	14.02	25	11		NJ2O	A1A		fiugure groups/different length
VERON	7122,4	08.24	30	11		IFC4	A1A		figures groups/different length
VERON	7140,0	08.15	20	11		UiBC	A3E		speech
VERON	7142,0	15.30	6	11		UiCW	A1A		15.42 utc, long strings cyrillic, ZGRK
VERON	7142,0	08.12	20	11		UiPtr	F1B	500	Ptr
VERON	7159,0	14.09	17	11		UiPtr	F1B	250	Ptr
VERON	7165,0	15.28	6	11	ETH	R.Ethiopa	A3E		music
VERON	7175,0	15.20	8	11	ERI	VBM	A3E		speech and music
VERON	7175,0	15.25	19	11	ERI	VBM	A3E		speech
VERON	14071,5	14.42	17	11		UiMUX	J7D		12 MPSK AT-3004-D

IARUMS Region 1

Many thanks for your interest!



from Wolf, DK2OM and Uli, DJ9KR to you and all your beloved ones!

The monitoring team of IARU Region 1

credits:

Wavecom Elektronik – Buelach – Switzerland

SSB-Electronic – Iserlohn – Germany

BAZ – Special Antennas - Germany

German PTT (BNetzA = Federal Network Agency)

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