



International Amateur Radio Union



Region 1

# Monitoring System

- IARUMS Region 1 -

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The monthly newsletter for Region 1

## December 2007

The members of the IARUMS Region 1 monitoring team:



## Acknowledgements

++ ARSK: 5Z4NU - Ted ++ DARC: DJ9KR - Uli ++ MRASZ: HA7PL - Laci ++ OEVS: OE3DMA – Alex ++  
++ RSGB: G4BOH - Chris ++ SARL: ZS6AKV - Hans ++ SRAL: OH2BLU - Pekka ++  
++ USKA: HB9CET - Peter ++ VERON: PA0GRU - Dick ++ RAL: OD5RI - Riri ++  
++ WA4FKI - Bill (Co-ordinator Region 2) ++ VU2UR - Arasu (Co-ordinator Region 3) ++  
++ DF5UG - Hans (EC-IARU-R1 ) ++ DF8FE – Martin (Webmaster assistance) ++ DL8AAM – Tom (ALE) ++  
++ G3VZV – Graham (satellite intrusions) ++ DK4VW - Ulli (DARC-HF-Department) ++  
++ DJ7KG - Georg (beacons) ++ DF5SX - Wolfgang (BC) ++ DARC (server support) ++  
++ German PTT ++ British PTT ++ Spanish PTT ++ Finnish PTT ++ other European PTTs ++  
++ IARU Region 1 assistance ++

Part 1: News and infos

Part 2: Detailed reports from the national co-ordinators

Screenshots and measurements: DK2OM with Wavecom equipment

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## Part 1: News and Infos

### 1. † WA4FKI, Bill Zellers, Coordinator IARUMS Region 2, has passed away on Nov. 23<sup>rd</sup>, 2007. †

Bill tried his best to save our bands from intruders in Region 2. But finally the severe sickness did not let him any chance for further efforts. We will respectfully keep him in our minds.

### 2. REA4 (Russian Airforce) back again on 7 MHz

"REA4" is the ident of Russian Airforce beacons. Two beacons were daily active on 7018 kHz (F1A) from Moscow and 7044 kHz (A1A) from Omsk.

### 3. 7040 kHz – IM product from Voice of Russia (VOR)

The IM product disappeared and came back. The German PTT (BNetzA) gave its best to help.

### 4. All India Radio on 7 MHz

All India Radio produced strong spurious emissions between 7045 and 7070 kHz. The fundamental emission was on 7410 kHz. Spurious emissions were observed on +/- 355 kHz. The German PTT sent a complaint to India.

### 5. Successful year 2007 for IARUMS Region 1

It was possible to remove several MIL systems (like Stanag4285, MIL-188-141A) from our bands. Problems with BC spurious and IM products could be solved, too. Thanks to the German PTT, the British PTT, the Spanish PTT and the NATO.

### 6. Spanish pirate invasion as usual

7000, 14000, 14014.5, 14100, 14114.5, 14124, 14125, 14135, 14140, 14320, 14350, 21000, 21100, 21095, 21120 **USB** – Spanish fishery and family traffic, daily, various times!

### 7. Homepage IARUMS Region 1 <http://www.iarums-r1.org>

Homepage IARUMS Region 2 <http://www.iaruregion2.org>

Homepage IARUMS Region 3 <http://www.jarl.or.jp/iaru-r3/ms/r3msnl.htm>

† WA4FKI, Bill, Coordinator IARUMS Region 2, silent key †



## 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 = 12 channel phase shift keying \*\*\* ALE (MIL-188-141A) = automatic link establishment \*\*\* MUX = multiplex \*\*\* Ui = 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 \*\*\* MOPO = Ministry of Public Order

### ARSK – Kenya – 5Z4NU (Ted)

H'd by	kHz	UTC	DD	MM	ITU	Identity	Mode	Details
ARSK	6999.0	vt	dly	12	ETH?	UiPHONE	J3Eu	Amharic. Spreads into 40 m. band.
ARSK	6999.0	vt	dly	12	KEN?	20, 24, 26,	J3Eu	Thought to be Kenya military. Spreads into 40 m band.
ARSK	7000.0	1705 1701 1702 1701	1 2 5 13	12	TZA	Dar es Salaam, Mwatiti?	J3E	Hunting safari net, thought to be in southern Tanzania..
ARSK	7000.0	vt	dly	12	SOM	Bossasso, others	J3Eu	Somalis. Phone patching.
ARSK	7000.0	vt	dly	12	ZAI	UiPHONE	J3Eu	KiSwahili, DRC accent.
ARSK	7002.0	vt	dly	12	SOM	UiPHONE	J3Eu	Somalis.
ARSK	7006.0	0557	30	12	ETH?	UiPHONE	J3E	Amharic.
ARSK	7008.0	vt	dly	12	SDN	M7, M10, M18, M21, M22, M125, 35, CM, others	J3E J3Eu	English, vernaculars, verbal Morse.Selcal. SPLA. Both sidebands used.
ARSK	7012.0	vt	dly	12	SOM	Kismayu, Afmadu, Dobleh, Baidoa?	J3Eu	Somalis, SelCal. Some KiSwahili, prob. Bajuni.
ARSK	7023.0	vt	dly	12	SOM	UiPHONE	J3Eu	Somalis.
ARSK	7026.0	vt	dly	12	SDN?	K1, K2, JO,	J3Eu	English, NGO? Selcal.
ARSK	7045.0	vt	dly	12	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.
ARSK	7045.0	vt	dly	12	ZAI	Bukavu	J3Eu	KiSwahili, French.
ARSK	7046.0	1430	1	12	SOM	Bossasso	J3Eu	Somalis.
ARSK	7048.0	vt	dly	12	SDN	WA, S, T, SM, AU, PK, PS, AC, BC, B15,CC, Malakal, Yambio,	J3E	English, vernacular, verbal Morse. NGO or SPLA?
ARSK	7050.0	1431	1	12	ZAI	UiPHONE	J3E	Vernacular.
ARSK	7050.0	vt	dly	12	SOM	UiPHONE	J3Eu	Somalis.
ARSK	7066.0	vt	dly	12	SDN	B1, B2, AT,K1, KT, CT, TI, BT, B2, KR, JT, P1, LL, LA, A25, BJ, RK1, RK2, KA	J3E	S. Sudan. English, & Nilotic language. NGO? Also uses 5712 KHz.
ARSK	7070.0	vt	dly	12	SOM ERI	Asmara, Afmadu, Dobleh, Baidoa, Merere, Garoe, Burhane, Mogadishu, Kismayu, Beletwein	J3Eu	Somalis. SelCal. Often late at night.
ARSK	7075.0	vt	dly	12	SOM	Galkayu, Kismayu, Baidoa	J3E J3Eu	Somalis. SelCal, phonepatching.
ARSK	7100.0	vt	dly	12	ERI	VOBM	A3E	Voice of the Broad Masses, BC

## DARC – Germany – Part 1 – DJ9KR (Uli) / DK2OM (Wolf)

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	REMARKS
DARC	1852,0	0600	20	12	J3E-U	I	UiILL	female voice counting figures and letters in Italian
DARC	3500,0	1844	04	12	J3E-U	F	UiILL	pirates in French voice
DARC	3500,0	vt	vd	12	J3E-U	E	UiILL	Spanish fishery, heard 01 06 at 1922, 1739
DARC	3500,0	vt	vd	12	J3E-U	E	UiILL	Spanish fishery, heard 12 13 at 1948, 1822
DARC	3515,0	1709	19	12	J3E-U	E	UiILL	Spanish fishery
DARC	3535,0	0804	02	12	J3E-U	E	UiILL	Spanish fishery
DARC	3548,0	2015	28	12	J3E-U	F	UiILL	French male persons
DARC	3550,0	0804	02	12	A3E	F	Net of French Lis Amateurs	who do not respect the IARU Bandplan
DARC	3565,0	2014	14	12	J3E-U	F	UiILL	male French persons, no call available
DARC	6999,0	0916	03	12	J3E-U	E	UiILL	Spanish fishery, splatters into ham band
DARC	7000,0	1506	06	12	J3E-L	S.As	UiILL	South Asian male voices
DARC	7000,0	1704	09	12	J3E-L	I	UiILL	Italian male person testing
DARC	7000,0	1026	30	12	J3E-L	I	UiILL	Italian amateur like traffic, LSB is out-of-band operation!
DARC	7013,5	1719	07	12	J3E-U		UiILL	pirates in Ar voice
DARC	7020,0	0720		12	J3E-U	RUS	Sorok Dwa	Ru male person
DARC	7200,0	0841	02	12	J3E-U	E	UiILL	Spanish fishery
DARC	10101,0	2211		12	J3E-U	KRE	UiILL	Korean fishery
DARC	10123,0	1111	05	12	J3E-U	G	UiILL	English fishery
DARC	10123,0	1920	18	12	J3E-U		UiILL	unid stns unid language
DARC	10126,0	0948	14	12	J3E-U		UiILL	pirates in English voice, from 10130,7
DARC	10130,0	1109	11	12	J3E-U	F	French Lis Amateurs	French lis radio amateurs, SSB not conform to IARU bandplan
DARC	10130,7	0943	14	12	J3E-U		UiILL	pirates in English voice, to 10126
DARC	10136,0	1025	10	12	J3E-U	F	F5AQH/P	OP André - already heard b4 on band 10 during previous months
DARC	10136,0	1025	10	12	J3E-U	F	F6DCN	OP Hervé - already heard b4 on band 10 during previous months, calling also F5MBJ (?) - no phonetical spelling of call
DARC	10136,0	1043	19	12	J3E-U	F	F1RGX/m	OP Daniel
DARC	10136,0	1043	19	12	J3E-U	F	F6DCN	OP Hervé
DARC	10136,0	1043	19	12	J3E-U	F	F5MBJ (?)	OP Jean-Claude (no phonetical spelling of call)
DARC	10136,0	1043	19	12	J3E-U	F	call?	OPs Arnaud, Anatole, André
DARC	10136,0	1043	19	12	J3E-U	F	F3EX	OP André
DARC	10136,0	1043	19	12	J3E-U	F	F9IL	no name heard
DARC	10136,0	vt	vd	12	J3E-U	F	French Lis Amateurs F6DCN	do not respect the IARU Bandplan, heard 03 04 11 at 1028, 1037, one stn is F6DCN
DARC	10140,0	1356	16	12	J3E-U	E	UiILL	Spanish male person
DARC	10147,0	2236	09	12	J3E-L	FEa	UiILL	pirates in unid voice, LSB used
DARC	10150,0	1510	06	12	J3E-U	INS	UiILL	male to female in Indonesian voice
DARC	14000,0	1016	03	12	J3E-U		UiILL	OP Gamal, pirates in Ar voice
DARC	14000,0	1759	10	12	A3E	ISR	YHF	female voice, is Mossad
DARC	14000,0	1659	27	12	J3E-U	E	UiILL	Spanish fishery
DARC	14000,0	vt	vd	12	J3E-U	S.As	UiILL	pirates in Hindi (??) voice, QTE 090 degs., Diesel engine noise, heard 05 06 at 1410, 1058, 1435
DARC	14000,5	1222	03	12	J3E-U	S.As	UiILL	pirates in Hindi (??) voice, QTE 090 degs.
DARC	14000,5	1520	11	12	J3E-U	E	UiILL	Spanish fishery
DARC	14001,5	1438	08	12	J3E-U	F.Ea	UiILL	pirates in unid voice
DARC	14002,0	vt	vd	12	J3E-U	F.Ea	UiILL	Far East pirates, heard 03 04 05 at 0850, 0904
DARC	14005,0	1011	05	12	J3E-U	S.As	UiILL	pirates in Hindi (??) voice, QTE 090 degs.
DARC	14013,0	0905	11	12	J3E-U	E	UiILL	2 male persons in Spanish, QSA5 "cambio"

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	REMARKS	
DARC	14020,0	0947	08	12	J3E-U	F.Ea	UiILL	pirates in unid voice	
DARC	14020,0	1044	13	12	J3E-U	E	UiILL	Spanish fishery, calling "Cordoba"	
DARC	14020,0	1515	13	12	J3E-U	F.Ea	UiILL	Far East pirates	
DARC	14040,0	1534	18	12	J3E-U	Af	UiILL	pirates, African Vernacular	
DARC	14055,8	0948	31	12	J3E-U	RUS / CIS	UiILL	pirates in Russian voice	
DARC	14057,0	0912	13	12	J3E-U	KRE	UiILL	Korean ships	
DARC	14060,0	1530	13	12	J3E-U	E	UiILL	2 male persons in Spanish, poss. Galician	
DARC	14100,0	0914	09	12	J9WWF		UiILL	scrambled male voices with encoding signal sounding like teleprinter, 2 persons	
DARC	14110,7	1446	14	12	J3E-U	M.Ea	UiILL	pirates from Middle East	
DARC	14144,9	1436	10	12	J3E-L	KRE	UiILL	Korean fishery. LSB used	
DARC	14185,0	1655	12	12	J3E-U		KNT	"CQ KNU KNU thisis KNT KNT..."	
DARC	14256,0	1030	07	12	J3E-U	S.As	UiILL	Japanese (?) male voices	
DARC	14291,2	vt	vd	12	J3E-U		UiILL	pirates, location possibly Indian Ocean, heard 10 23 at 1314, 1114	
DARC	14350,0	1552	12	12	J3E-U	I	UiILL	OP Mariano, Italian pirates with Africa - later to 14360	
DARC	21000,0	1004	11	12	J3E-U	S.As	UiILL	pirates, Hindi (??) voice	
DARC	21075,0	0945	11	12	J3E-U	S.As	UiILL	pirates, Hindi (??) voice	
DARC	28000,0	vt	vd	12	F3E	RUS / CIS	UiILL	taxi business 28000 - 29700	
DARC	28225,0	0905	19	12	F3E	I	UiILL	CB-ers in Italian voice	

### DARC – Germany – Part 2 – DJ9KR (Ui) / DK2OM (Wolf)

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	REMARKS AND OBSERVATIONS
DARC	3500,0	**	**	**	****		Note			The range 3500 - 3800 kHz is also allocated to the Fixed Service on a primary basis. The BC Service (Radio Korea-North) is not allowed!
DARC	3500,0	2029	18	12	FSK8	TUR	MUX	125	1750	ALE, selcalls 2010, 2015 - is Turkish Red Crescent, Emergency Operation Center Ankara
DARC	3500,0	vt	vd	12	G7B		UiMUX			frequency hopper heard 05 24 at 1914, 1733
DARC	3502,0	2033	24	12	J7D	RUS	UiMUX			MPSK-12, AT-3004-D
DARC	3509,5	2027	28	12	J7D	RUS	UiMUX			MPSK-12, AT-3004-D
DARC	3524,0	1828	09	12	J7D	RUS	UiMUX			MPSK-12, AT-3004-D, BPSK
DARC	3525,0	1722	06	12	J7D	BLR	UiMUX			MPSK-12, AT-3004-D, 12 x 120 Bd, BPSK
DARC	3527,0	2006	29	12	F1B	RUS	UiPTR	50	197	unid printer, location is nr Magadan
DARC	3527,0	2218	13	12	F1B	CIS	UiPTR	50	200	unid printer, idling
DARC	3527,0	2218	18	12	F1B	CIS	UiPTR	50	200	unid printer
DARC	3527,0	vt	vd	12	F1B	RUS	UiPTR	50	250	unid printer
DARC	3527,5	2024	28	12	F1B	RUS	UiPTR	81	250	unid printer system 81-81
DARC	3530,0	1959	18	12	G7B		UiMUX			LINK-11
DARC	3533,8	ady	dly	12	G7B	HOL	UiMUX	100	100	QPSK, Thales Deltafix, Radio Navigation The Netherlands - heard 06 07 at 1727, 0824
DARC	3539,5	vt	vd	12	J7D	RUS	UiMUX			MPSK-12, AT-3004-D, BPSK - heard 07 09 at 1902, 2045
DARC	3550,0	0804	dly	12	A3E	F	French Amateurs			no BC but French lis Amateurs in Amplitude Modulation with both

CLUB	KHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	REMARKS AND OBSERVATIONS
										sidebands, daily
DARC	3550,0	2007	18	12	J7D	UKR	UiMUX			MPSK-12, AT-3004-D, location Sevastopol
DARC	3553,6	2021	05	12	G7B	M.Ea	UiMUX			STANAG-4285, 8PSK, 2k4, Middle East
DARC	3553,8	1841	14	12	8PSK	IRQ	MUX	2400		STANAG-4285, 600 bps - long
DARC	3560,0	vt	vd	12	A3E	KRE	Voice of Korea (North)			heard daily 1745 - 2120 - // 7100
DARC	3562,0	2154	21	11	J7D	RUS	UiMUX			MPSK-12, AT-3004-D - is allowed!
DARC	3565,0	0055	15	12	FSK8	GEO	MUX	125	1750	ALE, selcalls 8GS, ART - is Georgian MIL, daily
DARC	3566,0	2040	16	11	J7D	RUS	UiMUX			MPSK-12, AT-3004-D, received in LSB - is allowed
DARC	3570,0	1819	10	12	A3E		UiBC			distorted px, S8
DARC	3570,0	1931	14	12	J7D	RUS	UiMUX			MPSK-12, AT-3004-D
DARC	3570,0	2012	20	12	G7B		UiMUX			frequency hopper
DARC	3570,0	2012	20	12	G7B		UiMUX			frequency hopper
DARC	3570,5	1824	20	12	F1B	RUS	UiPTR	81	250	unid printer, system 81-81
DARC	3570,5	1824	20	12	F1B	CIS	UiPTR	81	250	system CIS-14
DARC	3572,0	1842	14	12	QPSK	HOL	UiPTR	100	100	
DARC	3572,0	h24	dly	12	QPSK	HOL	UiMUX	100		QPSK, Radio Navigation The Netherlands heard all month all day
DARC	3572,0	vt	dly	12	J7D	RUS	UiMUX			MPSK-12, AT-3004-D, QPSK
DARC	3575,0	1958	13	12	G7B		UiMUX			frequency hopper
DARC	3577,5	2000	13	12	F1B	UKR	UiPTR	162	250	unid printer, system 81-81, 2 channels
DARC	3578,0	1733	06	12	F1B	RUS	UiMUX	50	500	unid printer
DARC	3588,0	2004	14	12	J7D	RUS	UiMUX			MPSK-12, AT-3004-D
DARC	3589,0	1925	16	12	F1B	POL	UiPTR	81	250	unid printer, system 81-81
DARC	3590,0	1825	20	12	J7D	LTU	UiMUX	120		MPSK-12, AT-3004-D, 12 x 120 Bd, BPSK - is Lithuania
DARC	3590,0	1827	20	12	G7B		UiMUX			frequency hopper
DARC	3590,0	vt	vd	12	J7D	RUS	UiMUX			MPSK-12, AT-3004-D, SW Russia, heard 30 31 at 1958, 2006
DARC	3593,7	2143	09	11	A1A	UKR	beacon D Sevastopol			MIL beacon, is allowed!
DARC	3608,0	2022	05	12	F1B	RUS	UiPTR	50	200	unid printer, idling
DARC	3654,0	2011	14	12	A1A	RUS	UiCW			5-letter-groups, Russian Navy
DARC	3689,0	2010	12	12	F1B	RUS	UiPTR	81	200	unid printer
DARC	3691,0	2029	05	12	J7D	RUS	UiMUX			MPSK-12, AT-2004-D
DARC	3691,3	2103	18	12	G7B		UiMUX			NATO-LINK-11, unid
DARC	3694,5	2103	04	12	F1B	RUS	UiPTR	75	200	unid printer
DARC	3699,5	2030	13	11	A1A	RUS	beacon P Kaliningrad			RUS Navy Kaliningrad - is allowed!
DARC	3720,0	2024	05	12	F1B		UiPTR	100	850	unid printer, ACF=0, encrypted
DARC	3735,0	1735	06	12	F1B	RUS	UiPTR	50	250	unid printer
DARC	3735,0	1956	29	12	F1B	CIS	UiPTR	43	500	unid printer, idling
DARC	3756,0	ady	dly	12	A3E	UKR	The Pip			"the PIP", UKR channel marker, permanent
DARC	3782,0	ady	dly	12	F1B	POR	CTB	75	850	is POR Navy HQ Lisbon, permanent

CLUB	KHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	REMARKS AND OBSERVATIONS
DARC	3787,5	2004	29	12	G7B		UiMUX			MIL 188-110A, 2k4, 8PSK, unid
DARC	3796,0	1852	04	12	J7D	RUS	UiMUX			MPSK-12, AT-3004-D
DARC	3797,0	2006	05	12	F1B	RUS	UiPTR	75	250	unid printer
DARC	3797,0	2026	14	12	F1B	RUS	UiPTR	75	200	unid printer
DARC	3800,0	2009	31	12	G7B		UiMUX			frequency hopper
DARC	7000,0	1408	17	12	G7B		UiMUX			frequency hopper
DARC	7000,0	1600	09	12	A3E	ERI	Voice of the Broad Masses			typical px, has left 1710: nil
DARC	7000,0	1825	15	12	FSK8	ALG	UiMUX	125	1750	ALE, selcalls CY5, CY51, CY52 - is ALG MIL
DARC	7000,0	1835	10	12	G7B		UiMUX			frequency hopper
DARC	7000,0	1838	03	12	A3E		UiBC			BC, IM
DARC	7000,0	2310	31	12	P0N	CHN	Chinese OTH Radar			is active, 43 pps
DARC	7000,0	2994	02	12	P0N	CHN	Chinese OTH Radar			43 pps, 100 kHz spread, heard 6090 - 7090
DARC	7003,0	1856	05	12	FSK8	MEa	UiMUX	125	1750	ALE, selcalls T01147 - is US MIL
DARC	7008,0	vt	vd	12	F1B	RUS	UiPTR	75	250	unid printer heard 19 27 at 0811, 0739
DARC	7008,0	vt	vd	12	F1B	RUS	UiPTR	75	250	unid printer, heard 19 27 at 0811, 0739
DARC	7010,0	0736	28	12	J7D	RUS	UiMUX			MPSK-12, AT-3004-D
DARC	7010,0	1818	13	12	A3E		UiBC			unid BC
DARC	7010,0	2048	08	12	FSK8	MAK	UiMUX			ALE, selcalls RSO, CS002 - is Macedonian MIL
DARC	7011,8	1020	12	12	8PSK		UiMUX			MIL-188-110A, 2k4, 8PSK, unid
DARC	7014,0	1201	25	12	F1B	RUS	UiPTR	75	250	unid printer
DARC	7018,0	1836	01	12	F1B	RUS	REA4	50	1000	printer located Moscow
DARC	7018,0	2013	17	12	F1A	RUS	REA4			fast reversals
DARC	7018,0	vt	25	12	F1B		UiPTR			revresals heard 1913 - 2120
DARC	7030,0	0954	22	12	F1B	RUS	UiPTR	50	250	unid printer, location is East Russia
DARC	7031,7	2254	09	12	A1A	RUS	UiCW			only dots, duration 100 ms, location Moscow
DARC	7035,0	1100	06	12	G7B		UiMUX			MIL-188-110A, 2k4, 8PSK, unid
DARC	7038,7	1627	16	12	A1A	UKR	beacon D			is active - Sevastopol
DARC	7038,8	vt	vd	12	A1A	RUS	beacon P			reported 12 19 at 0035 - 0815, is daily acive Kaliningrad
DARC	7038,9	vt	vd	12	A1A	RUS	beacon S			reported 05 12 at 0035, 1828 - is daily active Murmansk
DARC	7039,0	0953	01	12	A1A	RUS	beacon C			reported 01 17 at 0953, 1633 - is daily active Moscow
DARC	7039,4	0717	20	12	A1A	RUS	beacon M			is active - Magadan
DARC	7039,5	0954	01	12	A1A	E	IZ3DVW			unwanted bcos uncoordinated beacon
DARC	7040,0	vt	vd	12	A3E	RUS	Voice of Russia			IM of 7105 and 7170, heard 02 - 12 at 1843 - 2109
DARC	7040,0	vt	vd	12	A3E	RUS	Voice of Russia			heard 27 28 at 2015, 2000 - is IM, very strong and harmful!
DARC	7044,0	1943	01	12	A1A	RUS	REA4			RUS Airforce Omsk, dots of 20 ms

CLUB	KHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	REMARKS AND OBSERVATIONS
DARC	7045,0	vt	vd	12	A3E	IND	All India Radio			vy distorted px shifting 7045 - 7075 - S 9 + 20 dB, spurious of 7410 kHz, heard all month - 1500 - 2230
DARC	7045,0	1744	05	12	FSK8	GEO	UiMUX			ALE, Georgian MIL, selcalls 8GS; ART
DARC	7045,2	vt	12	12	A1A		UiCW			dotter heard 0714 - 0712
DARC	7050,0	1424	06	12	A1A	CIS	UiCW			Cyrillic letters
DARC	7054,0	1059	15	12	F1A	RUS	UiPTR			rerversals most of the time, heard 1959 - 2223
DARC	7054,0	vt	vd	12	F1B	RUS	UiPTR	50	250	printer located east of Moscow, idling most of the time, very harmful as daily 1800 - 2130 - 30 reports all month
DARC	7058,4	2222	27	12	A1A	CHN	L9CC			roundslip "VVV CP17 DE L9CC", heard 7058,4 - 7069,6- 20 reports all month, time: 1700 - 2250
DARC	7070,0	1708	09	12	A3E		UiBC			weak signal
DARC	7070,0	2010	25	12	FSK8	CHN	UiMUX	125	1750	ALE, selcalls G86, 514 - PRC-PLA, daily
DARC	7070,0	2225	29	12	A3E		UiBC			spurious
DARC	7071,0	1633	17	12	FSK8		UiMUX	125	1750	ALE
DARC	7076,0	1324	10	12	F1B	RUS	UiPTR	41	250	unid printer system FROST_1
DARC	7085,0	2145	10	12	A3E		UiBC			Ru px S9+10dB
DARC	7092,0	1941	09	12	A3E	RUS	Voice of Russia			splatters from 7105
DARC	7098,0	1532	17	12	F1B	RUS	UiPTR	75	250	unid printer
DARC	7100,0	1519	13	12	A3E	ERI	Voice of the Broad Masses			typcial music
DARC	7100,0	1608	16	12	A3E	ERI	Voice of the Broad Masses			is active
DARC	7100,0	1724	15	12	A3E	ERI	Voice of the Broad Masses			is active
DARC	7100,0	1819	10	12	A3E	KRE	Voice of Korea (North)			is audible
DARC	7100,0	1913	25	12	A3E	KOR	Voice of Korea (North)			is active, // 3560
DARC	7105,0	2200	02	12	A3E JAM	CHN	Hainan Firedrag on Jammer			is active
DARC	7116,0	0802	12	12	F1B	RUS	UiPTR	81	250	unid printer
DARC	7118,0	0947	26	12	F1B	RUS	UiPTR	81	250	system 81-81, location is Kazan
DARC	7130,0	1608	16	12	JAM	CHN	Firedrag on Jammer			is active, also // 7365, 7445, 7515, 9495, 9555, 9670, 9680, 9905
DARC	7159,0	0954	20	12	F1B	RUS	UiPTR	75	200	is active
DARC	7173,0	0940	21	12	F1B	CIS	UiPTR	75	250	unid printer
DARC	7185,0	vt	vd	12	JAM	CHN	Firedrag on Jammer			heard 13 15 16 at 1608 - 1721
DARC	7188,0	vt	vd	12	F1B	RUS	UiPTR	81	250	unid printer system 81



CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	REMARKS AND OBSERVATIONS
DARC	7190,0	1121	23	12	G7B		UiMUX			frequency hopper
DARC	7190,0	1121	23	12	G7B		UiMUX			frequency hopper
DARC	7194,0	0806	02	12	J7D	RUS	UiMUX	120		MPSK-12, AT3004-D
DARC	7196,0	0816	25	12	F1B	RUS	UiPTR	75	250	unid printer
DARC	7198,0	vt	vd	12	J7D	RUS	UiMUX			MPSK-12 - AT-3004-D, heard 10 12 17 at 1327, 1015, 1057
DARC	10112,0	0955	16	12	G7B	TUR	UiMUX			STANAG-4285, 8PSK, 2k4, is Turkish MIL
DARC	10114,7	0719	20	12	F1B	RUS	UiPTR	96	1000	unid printer, system CIS-14
DARC	10114,7	0719	20	12	F1B	RUS	UiPTR	96	1000	system CIS-14
DARC	10117,1	1416	12	12	FSK8		UiMUX			THALES-3000 Skymaster, FSK8, unid
DARC	10120,0	2341	26	12	FSK8	B	UiMUX			ALE, celcalls SP1, SP2 - is Brazilian MIL
DARC	10120,0	2341	26	12	FSK8	B	UiMUX	125	1750	ALE, selcalls SP1, RS1 - is Brazilian MIL
DARC	10121,5	0818	13	12	J7D	RUS	UiMUX			MPSK-12, AT-3004-D
DARC	10123,0	0859	06	12	F1B	RUS	UiPTR	75	250	unid printer
DARC	10125,0	0741	27	12	J7D	RUS	UiMUX			MPSK-12, AT-3004-D
DARC	10125,0	0741	27	12	J7D	RUS	UiMUX			MPSK-12 - AT-3004-D
DARC	10127,5	1023	11	12	F1B		UiPTR	86	250	unid printer
DARC	10130,0	0815	13	12	F1B	RUS	UiPTR	50	500	unid printer
DARC	10130,0	0858	04	12	F1B		UiPTR	50	500	unid printer, Baudot encrypted
DARC	10130,0	1045	17	12	F1B	RUS	UiPTR	50	500	unid printer, Baudot encrypted, location is East Russia
DARC	10130,0	1108	11	12	G7B		UiMUX			frequency hopper
DARC	10130,0	1214	08	12	P0N	G / CYP	OTH Radar Cyprus			50-Hz-system (50 pps)
DARC	10136,0	1053	14	12	G7B		UiMUX			frequency hopper
DARC	10140,0	1130	11	12	P0N	G / CYP	OTH Radar Cyprus			50-Hz-system (50 pps)
DARC	10145,0	1012	10	12	P0N	G / CYP	OTH Radar Cyprus			50-Hz-system (50 pps)
DARC	10145,0	vt	12	12	P0N	G / CYP	OTH Radar Cyprus			chirping pulses 40 kHz spread heard 0924 - 1010 - report to BNetzA
DARC	10148,0	0819	24	12	F1B	RUS	UiPTR	58	250	unid printer, location is East Russia
DARC	10148,0	0819	24	12	F1B	RUS	UiPTR	58	250	unid printer, location is East Russia
DARC	10148,0	vt	vd	12	F1B	RUS	UiPTR	81	250	system 81, heard 01 09 13 at 0956, 0918, 0816
DARC	10150,0	1025	10	12	P0N	G / CYP	British OTH Radar Cyprus			chirping pulses 30 kHz spread
DARC	10150,0	1419	17	12	MFSK	RUS	UiMUX	40		CROWD-36 (= CIS-36), 36 tones
DARC	10150,0	2335	07	12	G7B		UiMUX			frequency hopper
DARC	10150,0	vt	vd	12	MFSK	RUS	UiMUX			CIS-36 = CROWD-36, 36 tones, heard 05 26 at 1506, 1434
DARC	10151,0	0817	19	12	F1B	RUS	UiPTR	100	250	unid printer, idling
DARC	10155,0	0938	13	12	P0N	G / CYP	British OTH Radar Cyprus			30 kHz spread
DARC	14000,0	0905	11	12	N0N		UiCAR			carrier

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	REMARKS AND OBSERVATIONS
DARC	14000,0	0952	01	12	F1B	EGY	UiPTR	300	820	Egyptian telemetry, daily at various times
DARC	14000,0	1003	14	12	G7B		UiMUX			frequency hopper
DARC	14000,0	1208	18	12	N0N		UiCAR			long lasting carrier, QTE 120 degs.
DARC	14000,0	1253	10	12	FSK8	I	UiMUX	125	1750	ALE, selcalls 21, 25 - is Italian MIL
DARC	14000,0	1501	08	12	G7B		UiMUX			frequency hopper
DARC	14000,0	1759	10	12	A3E	ISR	YHF			female voice "Yankee Hotel Foxtrot" - is Mossad
DARC	14001,6	1030	18	12	G7B	I	UiMUX			digital signal sounding like White Noise, 2,8 kHz wide - location Sicily Island
DARC	14003,3	vt	vd	12	G7B	GRC	UiMUX			STANAG-4285, 2k4, 8PSK - heard 11 - 15 daily at 1530, 0723, 1050
DARC	14056,0	0804	13	12	F1B	RUS	UiPTR	75	250	unid printer
DARC	14071,0	1110	28	12	G7B		UiMUX			frequency hopper
DARC	14071,0	1110	28	12	G7B		UiMUX			frequency hopper
DARC	14084,0	0911	13	12	F1B	RUS	UiPTR	75	250	unid printer
DARC	14086,0	0813	13	12	J7D	RUS	UiMUX			MPSK-12, AT-3004-D
DARC	14104,0	vt	14	12	F1B		UiPTR			unid printer, heard 0826 - 0953
DARC	14104,0	vt	vd	12	F1B	RUS	UiPTR			unid printer heard 22 - 28 0743 - 0925 - location is East Russia
DARC	14116,0	1222	14	12	F1B		UiPTR			unid printer S9+25dB
DARC	14120,0	0828	04	12	F1B	RUS	UiPTR	81	250	unid printer system 81
DARC	14122,0	0800	02	12	J7D	RUS	UiMUX			MPSK-12, AT-3004-D
DARC	14162,0	0748	25	12	J7D	RUS	UiMUX			MPSK-12, AT-.3004-D
DARC	14190,0	1159	20	12	A3E	ROU	Radio Romania Intl.			IM product
DARC	14190,0	1159	20	12	A3E	ROU	Radio Romania Intl.			IM product
DARC	14190,0	1210	26	12	G7B		UiMUX			frequency hopper
DARC	14190,0	1222	14	12	A3E		UiBC			piano music, S9
DARC	14192,0	vt	vd	12	F1B	RUS	RUS Navy Kaliningrad	50	200	very harmful printer as active all month 0820 - 1930
DARC	14196,0	1418	17	12	F1B	RUS	UiPTR	75	500	unid printer
DARC	14210,0	0745	12	12	A3E	RUS	Voice of Russia			is 2nd harmonic of 7105
DARC	14210,0	0753	12	12	A3E	RUS	Voice of Russia			harmonic of 7105
DARC	14221,0	1124	23	12	FSK8	CHN	UiMUX	125	1750	ALE, selcalls 914, 330 - CHN? PRC-PLA?
DARC	14236,0	1023	27	12	F1B	RUS	UiPTR	81	500	unid printer
DARC	14240,0	1043	17	12	F1B	RUS	UiPTR	75	250	unid printer
DARC	14268,0	0819	29	12	A1A	CIS	UiCW			encrypted Cyrillic letters
DARC	14268,0	1239	28	12	F1B		UiPTR			fast reversals
DARC	14269,0	1206	27	12	G7B		UiMUX			frequency hopper
DARC	14270,0	1402	11	12	A3E		UiBC			harmonic of 7135
DARC	14270,0	1410	11	12	A3E		UiBC			px in Russian voice, S9, is 2f de 7135
DARC	14275,0	0742	17	12	FSK8		UiMUX			ALE, selcall 842
DARC	14285,0	1222	14	12	A3E		UiBC			unid BC
DARC	14291,0	1124		12	FSK8	CHN	UiMUX	125	1750	ALE, selcalls 914, 330 - CHN? PRC-PLA?
DARC	14345,0	0715	20	12	P0N	G / CYP	OTH Radar Cyprus			50-Hz-system (50 pps)

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	REMARKS AND OBSERVATIONS
DARC	14345,0	0715	20	12	P0N	G / CYP	OTH Radar Cyprus			50-Hz-system (50 pps)
DARC	18025,0	1218	16	12	P0N	G / CYP	OTH Radar Cyprus			chirping pulses 30 kHz spread
DARC	18115,0	1130	12	12	P0N	G / CYP	OTH Radar Cyprus			chirping pulses 30 kHz spread
DARC	18130,0	vt	08	12	P0N	G / CYP	OTH Radar Cyprus			heard 0944 - 1710 without interrupt, 40 kHz spread, very harmful
DARC	18135,0	vt	vd	12	P0N	G / CYP	OTH Radar Cyprus			25-Hz-system (25 pps) heard 08 09 at 0945, 0919
DARC	18145,0	0809	17	12	P0N	G / CYP	OTH Radar Cyprus			50 pps
DARC	18180,0	0832	16	12	JAM	CHN	Firedrag on Jammer			just info
DARC	18180,0	0937	12	12	JAM	CHN	Firedrag on Jammer			just info
DARC	18180,0	0957	14	12	JAM	CHN	Firedrag on Jammer			is active, just info
DARC	21005,0	1105	11	12	G7B		UiMUX			frequency hopper

### MRASZ – Hungary - HA7PL (Laci)

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	REMARKS
MRASZ	7000,0	0-24	DLY	12	FSK8	ALG	UiMUX	125	1750	ESD CONTACTED: AKK, ROW, SKJ, AND KNM-SKJ, TSG-BKJ
MRASZ	7000,0	0-24	DLY	12	FSK8	UNID	UiMUX	125	1750	123 CONTACTED 321 NEW INTRUDER
MRASZ	7000,0	0-24	DLY	12	FSK8	UNID	UiMUX	125	1750	2236 CONTACTED 2214 NEW INTRUDER
MRASZ	7003,0	0-24	DLY	12	FSK8	USA	ALE	125	1750	R24509, R27022, T01185, T01204, US A AIR FORCE NET
MRASZ	7005,0	0-24	DLY	12	FSK8	UNID	UiMUX	125	1750	5004 SOUNDING, 5005 CALLS 800
MRASZ	7005,0	0-24	DLY	12	FSK8	UNID	UiMUX	125	1750	123472 CONTACTED 123456
MRASZ	7006,0	0-24	DLY	12	FSK8	UNID	UiMUX	125	1750	PEIRT1 CONTACTED BA6RT1
MRASZ	7010,0	0-24	DLY	12	FSK8	MKD	ALE	125	1750	RS-CS NETWORK
MRASZ	7011,0	0-24	DLY	12	FSK8	UNID	ALE	125	1750	NEW INTRUDER! 273,274,307
MRASZ	7014,0	0-24	DLY	12	FSK8	MAU	ALE	125	1750	KP66-BENNICHAB, MAURITANIAN UNIDENTIFIED USER
MRASZ	7014,0	0-24	DLY	12	FSK8	NIG	ALE	125	1750	NIGERIEN POLICE 411411, 4111,4113,4115,411413,411414,411415
MRASZ	7020,0	0-24	DLY	12	FSK8	UNID	ALE	125	1750	CS-RS NETWORK

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	REMARKS
MRASZ	7026,0	0-24	DLY	12	FSK8	UNID	ALE	125	1750	BADBEE6PROMAIN-BEDBEE3PROMAIN
MRASZ	7026,0	0-24	DLY	12	FSK8	UNID	ALE	125	1750	WP111 CONTACTED WPTOC: NEW INTRUDER!
MRASZ	7026,0	0-24	DLY	12	FSK8	UNID	ALE	125	1750	417-314 UNIDENTIFIED INTRUDER
MRASZ	7045,0	0-24	DLY	12	FSK8	GEO	ALE	125	1750	8GS net. GEORGIAN MILITARY. Callsigns:KBT, 8GS, MHE, 3BR, 2BR, BRN, KGT, ART, SE2, AL5, 1BR,4BR,ZEN,Q2T,SJS,KG 1,O2M,CQN
MRASZ	7054,0	0-24	DLY	12	FSK2	RUS		50	250	s7 fast revs and telegram
MRASZ	7061,0	159	DLY	12	FSK8	NIG	ALE	125	1750	211211 called 2111,2115 NIGERIAN POLICE
MRASZ	7070,0	0-24	DLY	12	FSK8	CHN	ALE	125	1750	288NET VERY ACTIV.204,244,514,686,587,571,334,494,00,NEW CALLSIGN:738
MRASZ	7080,0	0-24	DLY	12	FSK8	UNID	ALE	125	1750	SND:5810
MRASZ	7090,0	0-24	DLY	12	FSK8	UNID	ALE	125	1750	SND:4001, NEW INTRUDER, NEW CALLSIGN:4058
MRASZ	7092,0	0-24	DLY	12	FSK8	UNID	ALE	125	1750	CALL SIGNS: 1020,2012,2013,2014,2015,2016,4014,4015,4016,4017, BUSY UNID NET 4 FIGURES CALLSIGNS
MRASZ	7100,0	0-24	DLY	12	FSK8	USA	ALE	125	1750	COROPS-DESOPS-TALOPS: USA MILITARY NET
MRASZ	7100,0	0-24	DLY	12	FSK8	UNID	ALE	125	1750	0710-0709 NEW INTRUDER
MRASZ	14006,2	1400	15	12	FSK2	RUS	UiPTR			
MRASZ	14030,0	836	DLY	12	G7D	Ui	UiMUX			FREQUENCY HOPPING TRANSMISSION, RACAL PANTHER-H
MRASZ	14206,0	1058	18	12	FSK2	KRE	UiPTR			North Korean embassy
MRASZ	14246,0	1205	DLY	12	FSK2	KRE	UiPTR			North Korean embassy
MRASZ	14345,0	1100	DLY	12	FSK2	KRE	UiPTR			North Korean embassy
MRASZ	14342,0	1205	DLY	12	G7D	Ui	UiMUX			FREQUENCY HOPPING TRANSMISSION, RACAL PANTHER-H

### OEVSV – Austria – OE3DMA (Alex)

### RSGB - Great Britain – G4BOH (Chris)

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
RSGB	14001.5	24H	DLY	10	CYP	STANAG 4285	8PSK	2400	2600	Contacted Baldock, signal QRT in less than 1 hour!

## SRAL – Finland – OH2BLU (Pekka)

Society	kHz	UTC	DD	MM	ITU	IDENT	Mode	SH	REMARKS
SRAL	7008,0	0730-0830	19, 27	12		UiPTR	F1B	250	
SRAL	7010,0	0730-0900	28	12		UiMUX	F7		
SRAL	7010,0	1800-1830	5,10	12		UiBC	A3E		TX intermod. 2 programmes
SRAL	7018,0	1100-2100	dly	12	RUS	REA4	F1B	1000	25 Hz dotter
SRAL	7018,8	0900-1330	28	12		UiCarr	N0N		
SRAL	7030,0	0530-0630	5	12		UiPTR	F1B	250	
SRAL	7038,7	h24	16-31	12	UKR	D	A1A		Sevastopol
SRAL	7038,8	0530-1800	15-31	12	RUS	P	A1A		Kaliningrad
SRAL	7038,9	h24	Dly	12	RUS	S	A1A		Severomorsk/Murmansk
SRAL	7039,0	h24	Dly	12	RUS	C	A1A		Moscow
SRAL	7050,0	0905	25	12	RUS	RGT77	A1A		MR 5BL
SRAL	7054,0	0600-0800	9- 31	12	RUS	UiPTR	F1B	200	25 Hz dotter
SRAL	7054,0	1900-2100	9- 31	12	RUS	UiPTR	F1B	200	25 Hz dotter, occ. also 2100- 0600
SRAL	7079,0	0645	11	12		UiMUX	F7		
SRAL	7080,0	0645	11	12		UiPTR	F1B	500	idle
SRAL	7098,0	1230-1430	5,17	12		UiPTR	F1B	250	
SRAL	7100,0	1755-2100	dly	12	KRE	Voice of Korea	A3E		
SRAL	7100,0	0400-0600	dly	12	ERI	VoBME	A3E		
SRAL	7100,0	1400-1803	dly	12	ERI	VoBME	A3E		
SRAL	7112,0	0815	20	12		UiPTR	F1B	250	
SRAL	7114,0	0800-1000	20, 27	12		UiMUX	F7		
SRAL	7118,0	0800-1300	*	12		UiPTR	F1B	250	Days 1,10,11 & 21-27, 37.5 Hz dotter
SRAL	7128,0	0800-0900	7	12		UiMUX	F7		
SRAL	7140,6	0630-0900	8, 9	12		UiPTR	F1B	450	25 Hz dotter
SRAL	7142,0	0900-1300	24, 28	12		UiPTR	F1B	250	
SRAL	7188,0	0830-1230	3, 9	12		UiPTR	F1B	250	37.5Hz dotter
SRAL	7193,0	0800-1330	25-28	12		UiPTR	F1B	200	16.6 Hz dotter
SRAL	7196,0	0800-1000	11, 25	12		UiPTR	F1B	200/250	40 Hz dotter
SRAL	7198,0	0600-1400	*	12		UiMUX	F7		Days 5, 10 & 12
SRAL	14056,0	0700-0730	13	12		UiPTR	F1B	250	

## USKA – Switzerland – HB9CET (Peter)

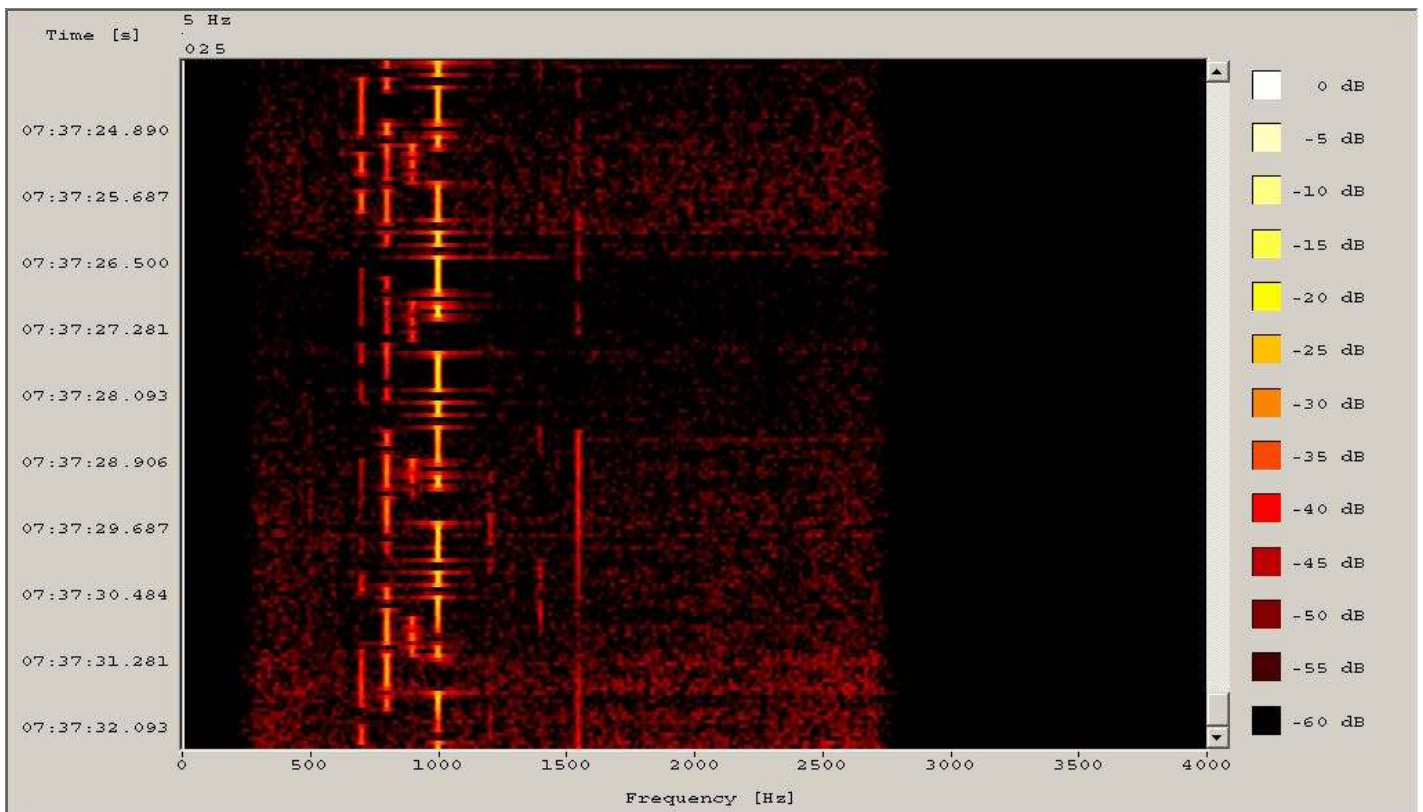
SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
USKA	7000.0	1408	18	12	CHN		P0N			OTH radar 43 pulses/sec often
USKA	7010.0	1106	06	12	MAK	CS0	FSK-8	125	1750	ALE - MIL188-141A to RS0 - this is CS0
USKA	7010.0	1131	06	12	MAK	RS0013A	FSK-8	125	1750	ALE - MIL188-141A to CS0 - this RS0013A
USKA	7018.0	1402	10	12	RUS	REA4	F1B			Russian AF – Moscow daily
USKA	7038.7	2057	17	12	UKR	D	A1A			Beacon Sevastopol daily
USKA	7038.8	2058	17	12	RUS	P	A1A			Beacon Kaliningrad daily
USKA	7038.9	2059	17	12	RUS	S	A1A			Beacon Murmansk daily
USKA	7039.0	2056	17	12	RUS	C	A1A			Beacon Moscow daily
USKA	7044.0	2120	04	12	RUS	REA4	A1A			Russian AF - Omsk daily
USKA	7045.0	2239	04	12	GEO	KBT	FSK-8	125	1750	ALE - MIL188-141A to 1BR - this is KBT
USKA	7045.0	2301	04	12	GEO	AL1	FSK-8	125	1750	ALE - MIL188-141A To 8GS - this is AL1
USKA	7045.0	2317	04	12	GEO	KB1	FSK-8	125	1750	ALE - MIL188-141A to KBT - this is KB1
USKA	7045.0	1546	06	12	GEO	SJS	FSK-8	125	1750	ALE - MIL188-141A to 1BR - this is SJS
USKA	7054.0	2100	06	12	RUS		F1B	50	250	unident printer, short traffic, long idling periods daily
USKA	7065.0	1932	09	12	IND	AIR	AM			IM product 7410 + 7755 kHz from All India Radio
USKA	7076.0	1330	10	12			F1B	81	250	CIS-81
USKA	7093.0	1411	10	12			AM			Splatter from Radio Belarus 7105
USKA	7098.0	1320	03	12			F1B	75	250	unident Printer
USKA	14000.0	1414	18	12			J3E			unident language
USKA	18145.0	1050	01	12			J3E u			Fishery, spanish
USKA	18165.0	1103	01	12			J3E u			long english conversation, no ham content, no callsigns

## Veron – Netherlands – PA0GRU (Dick)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	DETAILS
VERON	3508,0	16.12	16	12	F	UiILL	J3e-U		French fishery
VERON	7018,0	13.35	**	12	RUS	REA4	F1B	1000	22.24 utc, 18 days, Revs/Ptr, Airforce
VERON	7018,0	13.40	29	12	RUS	REA4	F1A		5F followed by Revs
VERON	7018,0	20.59	23	12	RUS	UiPtr	F1B	500	Revs
VERON	7038,7	09.35	**	12	UKR	D	A1A		21.17 utc, 8 days, beacon Sevastopol
VERON	7038,8	09.11	**	12	RUS	P	A1A		20.57 utc, 10 days, beacon Kaliningrad
VERON	7038,9	08.02	**	12	RUS	C	A1A		21.27 utc, 23 days, beacon Moscow
VERON	7038,9	07.36	**	12	RUS	S	A1A		17.57 utc, 18 days, beacon Murmansk
VERON	7039,2	07.36	**	12	RUS	F	A1A		17.57 utc, 6 days, beacon
VERON	7039,4	07.36	7	12	RUS	M	A1A		M-beacon Madagan, also 14/12 '08.29 utc
VERON	7040,0	15.37	9	12	Italy	IZ3DVW	A1A		beacon, not according bandplan
VERON	7044,0	17.37	**	12	RUS	UiCW	A1A		21.04 utc, dotter

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	DETAILS
VERON	7044,0	19.48	5	12		UiCW	A1A		dotter
VERON	7050,0	08.21	14	12	RUS	RGT77	A1A		RGT77 091= 5BL K parallel 14092
VERON	7050,0	09.03	15	12	RUS	RGT77	A1A		5BL (parallel with 14092 KHz)
VERON	7050,0	09.23	19	12	RUS	RGT77	A1A		RGT77 686= (5BL) K
VERON	7054,0	07.33	**	12	RUS	UiPtr	F1B	250	22.02 utc, 9 days, Ptr/Revs
VERON	7054,0	20.20	15	12	RUS	UiPtr	F1B	250	Revs
VERON	7056,0	06.38	11	12	CIS?	B94F	A1A		Proc, handsent morse
VERON	7057,0	21.53	23	12		UiBC	A3E		music SE Asian, All India Radio
VERON	7057,1	21.00	6	12	CHN	L9CC	A1A		CP17 de L9CC V (roundslip)
VERON	7058,5	17.35	27	12	CHN	L9CC	A1A		CP17 de L9CC V (roundslip)
VERON	7059,0	19.51	5	12	CHN	L9CC	A1A		CP17 de L9CC V (roundslip)
VERON	7059,1	20.11	15	12	CHN	L9CC	A1A		CP17 de L9CC V (roundslip)
VERON	7059,2	20.53	23	12	CHN	L9CC	A1A		CP17 de L9CC V (roundslip)
VERON	7063,1	18.12	18	12	CHN	L9CC	A1A		CP17 de L9CC V (roundslip)
VERON	7063,3	16.40	21	12	CHN	L9CC	A1A		CP17 de L9CC V (roundslip)
VERON	7063,9	17.30	28	12	CHN	L9CC	A1A		CP17 de L9CC V (roundslip)
VERON	7064,3	17.38	10	12	CHN	L9CC	A1A		CP17 de L9CC V (roundslip)
VERON	7064,3	18.57	17	12	CHN	L9CC	A1A		CP17 de L9CC V (roundslip)
VERON	7064,8	20.18	14	12	CHN	L9CC	A1A		CP17 de L9CC V (roundslip)
VERON	7065,3	17.20	12	12	CHN	L9CC	A1A		CP17 de L9CC V (roundslip)
VERON	7065,4	21.25	7	12	CHN	L9CC	A1A		CP17 de L9CC V (roundslip)
VERON	7066,3	21.33	25	12	CHN	L9CC	A1A		CP17 de L9CC V (roundslip)
VERON	7066,5	21.00	20	12	CHN	L9CC	A1A		CP17 de L9CC V (roundslip)
VERON	7069,6	21.13	29	12	CHN	L9CC	A1A		CP17 de L9CC V (roundslip)
VERON	7072,9	15.27	22	12	CHN	L9CC	A1A		CP17 de L9CC V (roundslip)
VERON	7072,9	15.30	22	12	CHN	L9CC	A1A		2780 svc QRW L 1838 701100 B41 95
VERON	7093,0	21.53	5	12	RUS	UiBC	A3E		strong splatters fm V.O.Russia 7105 KHz
VERON	14001,0	10.16	8	12		UiCAR	NON		carrier
VERON	14092,0	08.21	**	12	RUS	RGT77	A1A		09.50 utc, 5 days, 5BL, RGT77, 091
VERON	14092,0	08.15	10	12	RUS	WEGI	A1A		xxx WEGI 99396 GEPTILEN 8723 etc
VERON	14092,0	08.39	10	12	RUS	RGT77	A1A		xxx RGT77 KFDP KFDF 05412
VERON	14092,0	08.40	10	12	RUS	WEGI	A1A		xxx WEGI 13736 kantaridy 2684 9720
VERON	14190,0	12.00	9	12	ROU	UiBC	A3E		BC station, info PE2KP, 13.00 utc
VERON	14350,0	10.20	8	12	E	UiILL	J3e-U		Spanish, male voice
VERON	18068,0	14.34	10	12	Cypr/ G	OHTR	PON		50 pulses per second radar, wide 18.140
VERON	18108,0	12.00	9	12	Cypr/ G	OHTR	PON		50 pulses per second radar, wide 18.140
VERON	18152,0	15.40	5	12	E	UiILL	J3e-U		Spanish 2x male voices

Cluster beacons on 7039 +/- kHz in CW – from left to right: D (UKR) – P, S, C, F, M (RUS)  
F and M rather weak - [Wavecom Sonagram](#)



## IARUMS Region 1

Manual2006, Monitoring Template, WAV-files, Fishery Buoys on 10m, Latest Intruder News, Co-ordinator's Corner, Monthly Overview, Newsletter Collection, Important Links, Contacts, Gallery, History of IARUMS Region 1, ITU Informations, the Story of Ron Roden's Life, Successful Actions, Bandplans, Frequency Allocation Tables and Soundfiles are available on: <http://www.iarums-r1.org>

A nice and healthy new year to all our coordinators and friends!  
Many thanks for your assistance and cooperation!

## The monitoring team of IARU Region 1

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