



**International Amateur Radio Union**



**Region 1**

# Monitoring System

- IARUMS Region 1 -

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The monthly newsletter for Region 1

## February 2008

The members of the IARUMS Region 1 monitoring team:



## Acknowledgements

++ ARSK: 5Z4NU - Ted ++ DARC: DJ9KR - Uli ++ MRASZ: HA7PL - Laci ++ OEVSV: OE3DMA – Alex ++  
++ RSGB: G4BOH - Chris ++ SARL: ZS6AKV - Hans ++ SRAL: OH2BLU - Pekka ++  
++ USKA: HB9CET - Peter ++ VERON: PA0GRU - Dick ++ RAL: OD5RI - Riri ++  
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++ 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 decoders

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## Part 1: News and Infos

### 1. Algerian Ministry for Foreign Affairs on 10 MHz

The Algerian Ministry for Foreign Affairs was daily transmitting on 10125.000 kHz in ALE (MIL-188-141A) and in MSM-1250 (FSK 10 - 10 x 125 Bd) on 10126.600 kHz. This band is assigned to amateur radio on secondary base!  
[Screenshot below!](#)

### 2. New: Codar HF Ocean Radar on 10146 kHz

The Codar HF Radar appeared several times on 10134 and on 10146 kHz. We were not amused.  
[Screenshot below.](#) Please look under "Soundfiles" on our Homepage!

### 3. Intermodulation from Radio Iran on 14000 kHz

Intermodulation from Radio Iran (IRIB) on 13620 and 13810 kHz appeared on 14000 kHz.  
The German PTT (BNetzA) sent a complaint to Iran.

### 4. Voice of Korea on 80 m

The Voice of Korea (North) can be found on 3560.082 kHz in AM every evening. The German PTT (BNetzA) sent a complaint to North Korea.

### 5. Spanish fishery with vocoder traffic on 80 m

Spanish fishermen were active in CRY 2001 (voice encryption = vocoder) on 3500 kHz USB.  
The key exchange was audible (100 Bd, 170 Hz, FEC system).

### 6. Spanish pirate disaster as usual

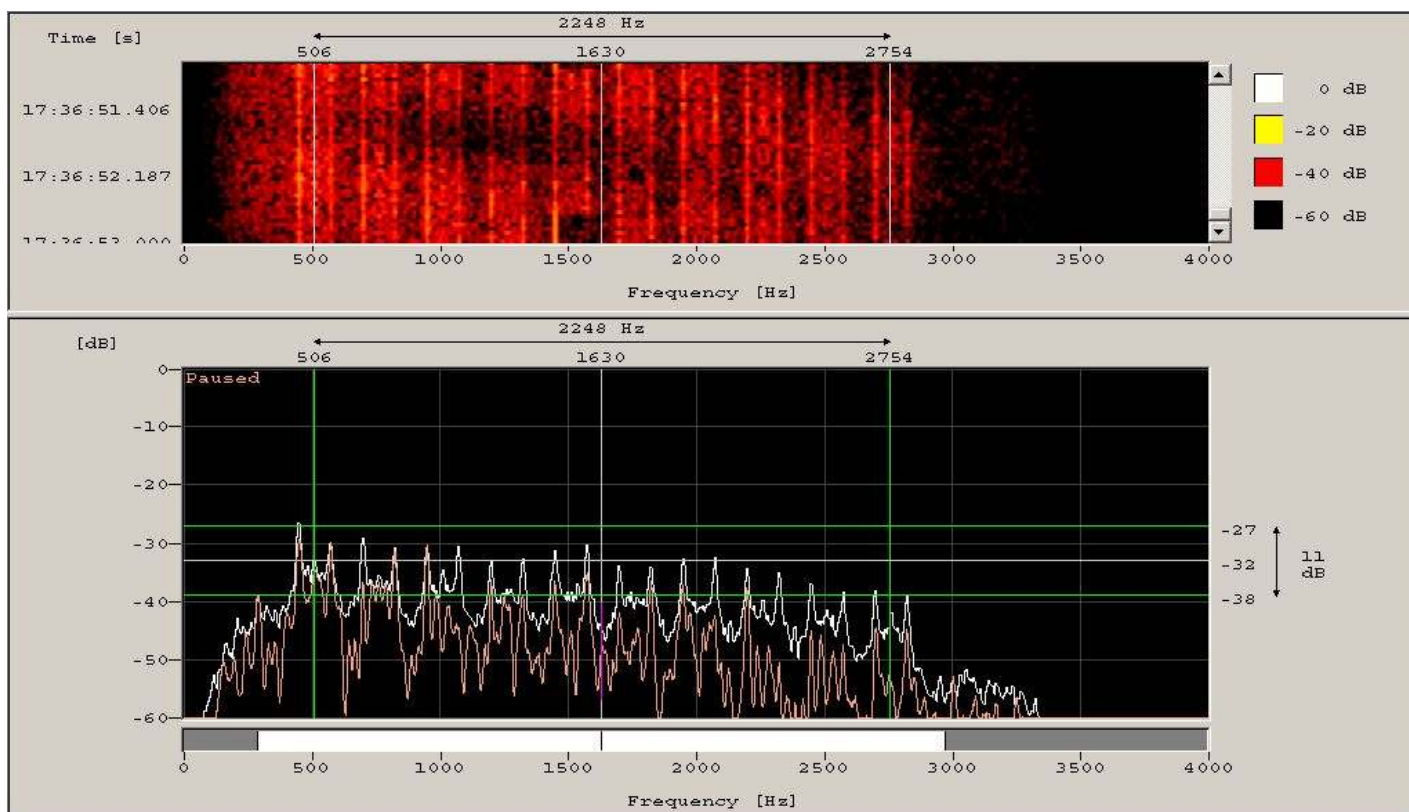
3500, 3550, 7000, 14000, 14014.5, 14100, 14114.5, 14124, 14125, 14135, 14140, 14320, 14350, 21000, 21100, 21095, 21120 **USB** – Spanish fishery and family traffic, daily, various times! Most of them are moving up and down in 5 or 10 kHz increments, always transmitting in USB.

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

Homepage IARUMS Region 2 <http://www.iaruregion2.org> – not available !

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

**MSM-1250 – 10 x 125 Bd (FSK10) – daily on 10126.600 kHz – location: Alger**



**Screenshot: DK2OM with a Wavecom W61 Decoder – sonagram and FFT**

## 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 (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 \*\*\* 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	2	ETH?	UiPHONE	J3E	Amharic. Spreads into 40 m. band.
ARSK	6999.0	vt	dly	2	KEN?	15, 16, 20, 24, 26, 66, 60,	J3Eu	May be Kenya, Tanzania or Uganda military. Spreads into 40 m band. Entebbe and Kilimanjaro mentioned, possibly as airports. Some traffic appears to be transit air movements.
ARSK	7000.0	vt	dly	2	SOM DJI	Bossasso, Djibouti, Afmadu	J3Eu	Somalis. Phone patching.
ARSK	7000.0	vt	dly	2	ZAI	UiPHONE	J3Eu	KiSwahili, DRC accent.
ARSK	7006.0	0534	15	2	ETH?	UiPHONE	J3E	Amharic.
ARSK	7008.0	vt	dly	2	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	2	SOM	Kismayu, Afmadu, Dobleh, Baidoa?	J3Eu	Somalis, SelCal. Some KiSwahili, prob. Bajuni.
ARSK	7015.0	1050	23	2	SOM	UiPHONE	J3Eu	Somalis.
ARSK	7023.0	vt	dly	2	SOM	UiPHONE	J3Eu	Somalis.
ARSK	7025.0	vt	*	2	SOM	UiPHONE	J3Eu	Somalis. * 16,
ARSK	7026.0	05	15	2	SDN?	WY, AS, AK, Tembo, Twiga,	J3Eu	English. NGO.
ARSK	7026.0	vt	dly	2	SDN?	K1, K2, JO,	J3Eu	English, NGO. Selcal.
ARSK	7031.0	vt	*	2	SOM KEN	Garissa, Boccoaro	J3Eu	Somalis.*4,18,
ARSK	7035.0	vt	3	2	SOM	UiPHONE	J3Eu	Somalis.
ARSK	7035.0	0545	3	2	?	UiPHONE	J3Eu	-
ARSK	7040.0	var	*	2	ETH	UiPHONE	J3Eu	Amharic.*15,
ARSK	7045.0	vt	dly	2	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	2	ZAI	Bukavu	J3Eu	KiSwahili, French.
ARSK	7048.0	vt	dly	2	SDN	WA, S, T, SM, AU, PK, PS, AC, BC,	J3E	English, vernacular, verbal Morse. NGO or SPLA?

H'd by	kHz	UTC	dd	mm	ITU	Identity	MODE	Details
						B15,CC, Malakal, Yambio,		
ARSK	7049.0	0553	28	2	SOM	UiPHONE	J3Eu	Somalis.
ARSK	7050.0	vt	dly	2	SOM	UiPHONE	J3Eu	Somalis.
ARSK	7066.0	vt	dly	2	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	2	SOM ERI	Asmara, Afmadu, Dobleh, Baidoa, Merere, Garoe, Burhane, Mogadishu, Kismayu, Beletwein	J3Eu	Somalis. SelCal. Often late at night.
ARSK	7072.0	0530	2	2	SOM	UiPHONE	J3Eu	Somalis.
ARSK	7074.0			2	SDN	UiPHONE	J3E	English, vernacular, phonetics. NGO?
ARSK	7075.0	vt	dly	2	SOM	Galkayu, Kismayu, Baidoa	J3E J3Eu	Somalis. SelCal, phonepatching.
ARSK	7075.0	0855	9	2	ZAI	UiPHONE	J3E	KiSwahili.
ARSK	7086.0	0532	28	2	SOM	UiPHONE	J3E	Somalis.
ARSK	7100.0	vt	dly	2	ERI	VOBM	A3E	Voice of the Broad Masses, Eritrea, broadcast.
ARSK	14293.0	1651	9	2	SOM	UiPHONE	J3E	Somalis.

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

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	REMARKS
DARC	3500,0	1752	10	02	J3E-U	RUS	UiILL	male persons in Russian
DARC	3500,0	vt	vd	02	J3E-U	E	UiILL	Spanish fishery, also using vocoder "CRY-2001", heard 02 10 22 at 1815, 2053, 1554
DARC	3500,0	vt	vd	02	J3E-U	E	UiILL	Spanish fishery, heard 06 7 12 13 19 20 at 1800 - 2230
DARC	3505,0	2013	24	02	J3E-U	E	UiILL	Spanish fishery
DARC	3520,0	1759	07	02	J3E-U	E	UiILL	Spanish fishery
DARC	3526,0	2110	07	02	J3E-U	N.Eu	UiILL	Scandinavian male persons, interfering with CW
DARC	3530,0	1625	25	02	J3E-U	E	UiILL	Spanish fishery
DARC	3530,0	0842	28	02	J3E-U	E	UiILL	British fishery, engine noise
DARC	3536,0	0734	07	02	J3E-U	E	UiILL	Spanish fishery
DARC	3540,0	1815	07	02	J3E-U	E	UiILL	Spanish fishery
DARC	3540,0	2036	15	02	J3E-U	E	UiILL	Spanish fishery
DARC	3545,0	0707	07	02	J3E-U	E	UiILL	Spanish fishery using vocoder CRY-2002 to scramble voice
DARC	3550,0	0752	07	02	A3E	F	F6MHR	not on homepage of French Authorities ANFR, unlis?
DARC	3550,0	2205	11	02	J3E-U	N.Eu	UiILL	Scandinavian male persons, interfering with CW
DARC	3550,0	0600	12	02	A3E	F	F6GRF	not on homepage of French Authorities ANFR, unlis?
DARC	3550,0	0750	12	02	A3E	F	F8XH	not on homepage of French Authorities ANFR, unlis?
DARC	3550,0	0810	14	02	A3E	F	F8XH	not on homepage of French Authorities ANFR, unlis?

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	REMARKS
DARC	3550,0	0810	14	02	A3E	F	F2MY	not on homepage of French Authorities ANFR, unlis?
DARC	3550,0	0700-0900	dly	02	A3E	F	French Lis Amateur s	who do not respect the IARU BANDPLAN: NO AM in range 3500 - 3600 kHz
DARC	3550,0	vt	vd	02	A3E	F	French Lis Amateur s	using A3E, heard 07 08 09 11 12 14 18 at 0700 - 0900
DARC	3554,0	1713	15	02	J3E-U	G	UiILL	British fishery, engine noise
DARC	3560,0	2039	14	02	J3E-U	E	UiILL	Spanish fishery
DARC	3590,0	2032	21	02	J3E-U	S.Eu	UiILL	female voice in Serbo-Croatian language
DARC	3595,0	2000	28	02	J3E-U	RUS	UiILL	male to female in Russian voice
DARC	3620,0	2043	14	02	J3E-U	E	UiILL	Spanish fishery
DARC	7000,0	1849		02	J3E-U	I	UiILL	Italian pirates, USB used
DARC	7000,0	1532	09	02	J3E-U	I	Italian Radio Amateur s?	using SSB-LSB, is out-of-band transmission!
DARC	7000,0	1525	13	02	J3E-U	I	Italian Radio Amateur s?	using LSB
DARC	7000,0	1555	13	02	J3E-U	INS	UiILL	pirates from Far East, Indonesia ?
DARC	7000,0	1054	14	02	J3E-U	G	UiILL	male pirates in English, ship engine in background
DARC	7000,0	1829	15	02	J3E-U	MRC	UiILL	Moroccan pirates
DARC	7000,0	1713	17	02	J3E-L	E	UiILL	male voices in Spanish language
DARC	7000,0	0813	25	02	J3E-U	RUS	UiILL	male persons in Russian
DARC	10101,0	2230	05	02	J3E-U	MRC	UiILL	Moroccan pirates
DARC	10101,0	1824	13	02	J3E-U	F.Ea	UiILL	pirates from Far East
DARC	10113,3	1530		02	J3E-U	F.Ea	UiILL	pirates from Far East
DARC	10120,0	1436	16	02	J3E-U		UiILL	male voices, unid language
DARC	10121,5	0838	18	02	J3E-U		UiILL	male voices, unid language
DARC	10123,5	0918	15	02	J3E-U	KOR	UiILL	Korean (?) male voices
DARC	10127,0	2011	27	02	J3E-U		UiILL	pirates, unknown language
DARC	10128,0	0926	02	02	J3E-U	E	UiILL	Spanish fishery, also using vocoder "CRY-2001"
DARC	10135,5	1035	04	02	J3E-U	F	French Lis Amateur s	SSB activity not conform to IARU Bandplan
DARC	10136,0	1014	02	02	J3E-U	E	UiILL	Spanish fishery, "A Coruna" mentioned
DARC	10136,0	1030	02	02	J3E-U	F	French Lis Amateur s	SSB activity not conform to IARU Bandplan
DARC	10147,0	vt	vd	02	J3E-L	INS	UiILL	Indonesian pirates, heard 02 - 07 at 1431 - 1520, daily, LSB used
DARC	10150,0	1418	06	02	J3E-U	F.Ea	UiILL	pirates from Far East, possibly from Indonesia
DARC	10150,0	1200	24	02	J3E-U	E	UiILL	2 Spanish male persons in Spanish dialect
DARC	13999,0	2016	16	02	J3E-U	B	UiILL	pirates, splattering up
DARC	14000,0	1420	04	02	J3E-U	RUS	UiILL	male person counting in Russian voice
DARC	14000,0	1657	05	02	J3E-U	MRC	UiILL	Moroccan pirates
DARC	14000,0	1112	12	02	J3E-U	Ind. Ocn.	UiILL	pirates in Indian Ocean
DARC	14000,0	0947	16	02	J3E-U	E	UiILL	Spanish family traffic
DARC	14001,0	1200	18	02	J3E-L	F.Ea	UiILL	pirates from Far East, LSB used
DARC	14001,5	1427	06	02	J3E-U	F.Ea	UiILL	pirate net, could be from Sri Lanka
DARC	14001,7	0748	09	02	J3E-U	MRC	UiILL	Moroccan pirates
DARC	14002,8	1437	19	02	J3E-U	F.Ea	UiILL	pirates from Far East, Indonesia ?
DARC	14099,0	1513	06	02	J3E-U	F.Ea	UiILL	pirate net, could be from Indonesia

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	REMARKS
DARC	14105,0	1447	04	02	J3E-U	F.Ea	UiILL	pirates from Far East
DARC	14111,2	1442	06	02	J3E-U	F.Ea	UiILL	pirate net, could be from Sri Lanka
DARC	14350,0	0757	15	02	J3E-U	F.Ea	UiILL	pirates from Far East
DARC	18072,0	vt	21	02	J3E-U	E	UiILL	2 Spanish male persons, "barco" (= ship) often mentioned
DARC	18101,0	1132	21	02	J3E-U	MRC	UiILL	2 male persons
DARC	18115,0	0930	12	02	J3E-U	F.Ea	UiILL	pirates from Far East, no idents
DARC	21065,0	vt	18	02	J3E-U	E	UiILL	2 male persons in Spanish voice, humming noise in background, heard 1516 - 1525
DARC	21100,0	1553	21	02	J3E-U	E	UiILL	Spanish fishery

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

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	REMARKS AND OBSERVATIONS
DARC	3500,0	2023	21	02	FSK8	TUR	Turkish Red Crescent			ALE
DARC	3502,0	1756	27	02	F1B	UKR	UiPTR	75	250	unid printer, location Petropetrovsk
DARC	3502,4	1756	17	02	F1B	RUS	UiPTR	41	400	system FROST-1
DARC	3503,5	2310	02	02	FSK8		UiMUX	125	1750	ALE, selcall XSS
DARC	3503,5	2029	17	02	FSK8	G	UiMUX			ALE, idents XSS, is British MIL TASCMM NCS Forest Moor
DARC	3504,0	2032	06	02	J7D	RUS	UiMUX			MPSK-12, AT-3004-D
DARC	3508,5	2116	22	02	FSK2		UiPTR	100	200	FEC?, sounds NAVTEX format
DARC	3509,0	1541	04	02	J7D	RUS	UiMUX	120		MPSK-12, AT-3400-D
DARC	3511,5	1822	12	02	J7D	RUS	UiMUX			MPSK-12, AT-3004-D
DARC	3511,5	1948	15	02	J7D	RUS	UiMUX			MPSK-12, AT-3004-D, location Moscow
DARC	3517,8	vt	vd	02	G7D	NOR	UiMUX "MUSU"	2400		STANAG-4285, 8PSK, 2k4, 600 bps-short - Norwegian Navy, permanent
DARC	3519,0	0920	11	02	G7B		UiMUX			NATO-LINK-11-slew, unid
DARC	3520,0	1935	25	02	CW	RUS	UiCW			2 x 5F, end "=="225 225 86 86 TTT" (Russian Intelligence)
DARC	3523,0	0200	29	02	FSK8		UiMUX			ALE, idents 5050, 5757, unid
DARC	3527,5	1944	19	02	F1B	UKR	UiPTR	43	250	unid printer, central Ukraine, idling
DARC	3530,3	1812	11	02	G7B		UiMUX			NATO-LINK-11-slew, unid
DARC	3532,0	1804	27	02	J7D	RUS	UiMUX			MPSK-12, AT-3004-D, location west Russia
DARC	3533,0	2131	22	02	FSK8	E	Guardia Civil Huelva			Spanish Guardia Civil, Guipuzcoa Huelva
DARC	3536,7	vt	vd	02	G7B	ISR	UiMUX			MIL-188-110A, hybrid modem, heard 15 16 17 at 2103, 1750, 1805
DARC	3539,4	1932	10	02	F1B	RUS	UiPTR	41	500	system FROST-1
DARC	3540,0	2042	22	02	G7B		UiMUX			frequency hopper
DARC	3542,0	2019	08	02	J7D	RUS	UiMUX			MPSK-12, AT-3004-D
DARC	3545,0	2024	08	02	FSK8	LTU	UiMUX			ALE, selcalls VR48, VR50 - is Lithuanian MIL, daily
DARC	3545,0	1829	15	02	FSK8	LTU	UiMUX			ALE, selcalls VR4, VR5 - is Lithuanian MIL,

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	REMARKS AND OBSERVATIONS
										daily
DARC	3547,0	1955	27	02	CW	RUS	RCV			simplex with RCJG, came from 3828, later QSY to 3315 (is QRG of Russian Navy Black Sea Fleet HQ, Sevastopol)
DARC	3548,7	2016	20	02	F1B	G	UiPTR	75	850	unid printer, location Scotland
DARC	3550,0	vt	vd	02	A3E	F	Many French Amateur Radio Stations			Information to Intruder Watchers: 0600 - 0900: large net up to 20 stations in "AM" by French lis Radio Amateurs - Activity is not conform to IARU Band Plan and a waste of Amateur Radio spectrum - often reported to IARU-MS as "Intruders" - Back to roots? When will they use Spark Gap transmitters agn?
DARC	3551,7	2254	15	02	A1A	CHN	L9CC			roundslip "CP17 DE L9CC"
DARC	3551,7	vt	vd	02	A1A	CHN	L9CC			roundslip "CP17 DE L9CC", heard 17 18 at 1940, 2000
DARC	3553,7	1651	01	02	G7D	TUR	UiMUX	2k4		STANAG-4285, 2k4, 8PkSK, Turkey daily
DARC	3555,0	2020	08	02	G7B		UiMUX			frequency hopper
DARC	3555,0	2045	20	02	G7B		UiMUX			frequency hopper
DARC	3555,8	1948	10	02	F1B		UiPTR	150	150	unid printer
DARC	3560,0	1811	17	02	A3E	KRE	Voice of Korea (North)			French px // 7100
DARC	3560,0	2043	21	02	A3E	KRE	Voice of Korea (North)			is active, daily
DARC	3560,5	1843	07	02	F1B	UKR	UiPTR	81	250	unid printer, location Vinnytsya
DARC	3562,0	1707	11	02	G7B		UiMUX			NATO-LINK-11-slew, unid
DARC	3565,0	1842	06	02	FSK8	GEO	UiMUX			ALE, selcalls ZEN, KBR - is Georgian MIL
DARC	3565,0	1952	27	02	FSK8	GEO	Georgian MIL			ALE, selcall KBT, is Georgian MIL, daily
DARC	3565,3	1850	08	02	G7B	CHN	UiMUX	8x75		PRC4+4, 8 x 75 Bd, QPSK
DARC	3566,8	1854	05	02	G7D		UiMUX			unid STANAG-4285, 2k4, 8PSK
DARC	3569,0	1749	06	02	J7D	RUS	UiMUX			MPSK-12, AT-3004-D
DARC	3569,8	1959	10	02	G7D		UiMUX	2k4		unid STANAG-4285, 2k4, 8PSK
DARC	3572,0	1653		02	QPSK	HOL	UiMUX	100		QPSK, Radio Navigation, permanent
DARC	3579,0	2213	13	02	G7B		UiMUX			frequency hopper
DARC	3581,0	2044	11	02	G7B		UiMUX			frequency hopper
DARC	3584,0	2240	24	02	G7B		UiMUX			frequency hopper
DARC	3586,0	2030	24	02	BPSK	G	UiMUX	40	100	BPSK, location north of London, east coast
DARC	3586,5	1810	14	02	G7B		UiMUX	2000		RFSM-2000, 2000 Bd, 8PSK
DARC	3586,5	vt	vd	02	G7D	F	UiMUX	2000	2k4	2000 Bd, 8PSK, 2400 Hz, RFSM-2000, serial

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	REMARKS AND OBSERVATIONS
										modem, located Marseille area - heard daily 1700 - 1915
DARC	3587,0	1814	27	02	FSK8	E	Guardia Civil			ALE, selcalls TWV, TXX2 - is Spanish Guardia Civil, daily
DARC	3590,0	1750	06	02	J7D	RUS	UiMUX			MPSK-12, AT-3004-D, location Kaliningrad
DARC	3592,0	1608	24	02	J7D	RUS	UiMUX			MPSK-12, AT-3004-D, location west of Moscow
DARC	3593,8	1830	02	02	A1A	RUS	beacon P			is Kaliningrad
DARC	3593,8	2129	03	02	A1A	UKR	beacon D			is Sevastopol
DARC	3593,8	2130	03	02	A1A	RUS	beacon P			is Kaliningrad
DARC	3594,0	2216	15	02	A1A	RUS	beacon C			beacon Moscow
DARC	3594,0	2216	15	02	A1A	UKR	beacon D			beacon Sevastopol
DARC	3598,0	1550	06	02	F1B	RUS	UiPTR	75	250	unid printer
DARC	3604,0	1949	08	02	J7D	RUS	UiMUX			MPSK-12, AT-3004-D
DARC	3604,5	2031	21	02	F1B	RUS	UiPTR	81	250	unid printer
DARC	3606,0	1553	06	02	F1B	RUS	UiPTR	50	250	unid printer
DARC	3608,0	1917	02	02	F1B	RUS	UiPTR	50	250	unid printer, idling
DARC	3611,5	0732	28	02	J7D	BIH	UiMUX			Link-11, Bosnia
DARC	3643,0	1826	26	02	J7D	RUS	UiMUX			MPSK-12, AT-3004-D, location west of Moscow
DARC	3645,0	2026	21	02	J7D	UKR	UiMUX			MPSK-12, AT-3004-D, location Kiev
DARC	3658,0	2010	10	02	A1A		beacon V			letter "V" all the time
DARC	3666,0	1844	06	02	FSK8		UiMUX			ALE, selcalls JDP, RGP
DARC	3696,0	1858	18	02	J7D	RUS	UiMUX			MPSK-12, AT-3004-D
DARC	3699,5	2109	02	02	F1B	RUS	UiPTR	50	250	unid printer
DARC	3699,5	2059	22	02	CW	RUS	beacon P Kalinin- grad			is Russian Navy Baltic Sea, HQ Kaliningrad, often misskeyed "PE"
DARC	3702,0	1822	03	02	FSK8		UiMUX			ALE, selcall RM3
DARC	3705,0	2014	10	02	A1A		UiCW			encrypted CW, unid
DARC	3725,0	2221	14	02	FSK8	E	UiMUX			ALE, selcalls TYB, TYBB2, is Guardia Civil, Spain, daily
DARC	3728,0	2017	10	02	G7B		UiMUX			frequency hopper
DARC	3735,0	1730	01	02	F1B	RUS	UiPTR	50	500	idling, Russia
DARC	3735,0	1625	05	02	F1B	UKR	UiPTR	50	500	unid printer, idling, location Sevastopol
DARC	3735,0	1859	05	02	F1B	RUS	UiPTR	43	500	unid printer, idling
DARC	3735,0	1935	07	02	F1B	POL	UiPTR	43	500	unid printer, location south-east Poland
DARC	3739,0	1921	17	02	J7D	UKR	UiMUX			MPSK-12, AT-3004-D
DARC	3745,0	0215	16	02	FSK8	GEO	UiMUX			ALE, dient 1BR to 8GS, is Georgian MIL
DARC	3747,0	0456	17	02	CW	RUS	RAL2			is Russian Navy, working "RBY46"
DARC	3756,0	1731	01	02	A3E	UKR	The Pip			10 tones, UKR-MIL marker, permanent
DARC	3768,0	1949	17	02	F1B	RUS	UiPTR	75	200	unid printer
DARC	3770,0	2055	17	02	FSK8	ALG	UiMUX			ALE, ident RM50, into encrypted voice, is Algerian MIL
DARC	3782,0	1734	01	02	F1B	POR	CTP	75	850	Portuguese Navy Lisbon, permanent
DARC	3782,0	0220	16	02	FSK2	POR	CTP	75	850	is Navy Oeiras, QSX marker to NAWS
DARC	3792,0	1550	07	02	F1B	RUS	UiPTR	75	200	unid printer
DARC	3792,0	vt	vd	02	F1B	RUS	UiPTR	50	200	unid printer heard 03 08 at 1857, 1553
DARC	7000,0	2139	01	02	A1A	RUS	beacon D			spurious of beacon-D on



CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	REMARKS AND OBSERVATIONS
							Seva-stopol			7038,7
DARC	7000,0	2145	01	02	G7B		UiMUX			frequency hopper, daily
DARC	7000,0	2053	07	02	A3E	RUS	Voice of Russia			spurious of 7105
DARC	7000,0	2056	09	02	A1A	RUS	beacon D Seva-stopol			spurious of 7038,7
DARC	7000,0	1645	11	02	FSK8		UiMUX	125	1750	ALE, ident ASD, with DKJ and EKK, unid net
DARC	7000,0	0315	12	02	A1A	UKR	beacon D Seva-stopol			IM from 7038,7
DARC	7000,0	2200	18	02	A1A	UKR	beacon D Seva-stopol			beacon Sevastopol, SP 7038,7
DARC	7000,0	0921	27	02	FSK8	LBY	UiMUX			ALE, selcalls MOB, GHADAMES, GMMRA - daily
DARC	7000,0	vt	vd	02	P0N	CHN	Chinese OTH-Radar			heard 01 - 04 at 2033, 1538, 1622, spread 6090 - 7090, 43 pulses-per-second, daily
DARC	7003,0	1420	03	02	FSK8	M.Ea	UiMUX			ALE, selcall T01147, US MIL Middle East, daily
DARC	7003,0	1932	11	02	FSK8	SRB	KFOR Serbia			ALE, ident TO1204, is KFOR/US 1st Battalion, 204th Aviation Regiment
DARC	7003,0	1827	13	02	FSK8	M.Ea	UiMUX			ALE, selcall G01147, is US MIL Middle East, daily
DARC	7003,0	1115	17	02	FSK8	SRB	KFOR Serbia			ALE, ident TO1185 (is KFOR Mississippi National Guard, 1st Battalion, 185 Aviation Regiment at Camp Bondsteel
DARC	7008,0	1719	07	02	F1B	RUS	UiPTR	75	250	unid printer
DARC	7010,0	1039	14	02	FSK8	MAK	UiMUX			ALE, selcalls CS0, RS009 - is MAK MIL, daily
DARC	7010,0	1721	17	02	FSK8	MAK	UiMUX			ALE, idents CS002B to RS00017, unid net - new info speaks against the old ID of "Macedonian MIL"
DARC	7010,0	1813	17	02	A3E		UiBC			IM?
DARC	7018,0	h24	dly	02	F1B	RUS	REA4 Moscow		1000	reversals all day all month, heard 1623 - 2132
DARC	7025,0	1558	13	02	J7D	RUS	UiMUX	12x120		MPSK-12, AT-3004-D
DARC	7036,0	1719	07	02	F1B	RUS	UiPTR	50	250	unid printer
DARC	7038,5	1606	24	02	A1A	I	IZ3DVW / BEACON			unwanted beacon
DARC	7038,7	vt	vd	02	A1A	UKR	beacon D Seva-stopol			beacon Sevastopol heard all month 0320 - 0931 - 1623 - 2200
DARC	7038,8	0920	01	02	A1A	RUS	beacon P Kalinin-grad			(RMP) beacon of Russian Baltic Sea HQ, Kaliningrad - heard 01 21 at 0920, 1623
DARC	7038,9	0822	01	02	A1A	RUS	beacon S			(RIT) Russian Navy

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	REMARKS AND OBSERVATIONS
							Mur-mansk			Northern HQ Severomorsk
DARC	7039,0	1623	21	02	A1A	RUS	beacon C Moscow			beacon Moscow heard all month, 01, 12 13, 21 at 0320, 0821, 1623, 2223
DARC	7039,0	2223	23	02	A1A	RUS	beacon "HF"			"HFB" repeated, location Moscow – wrong letters
DARC	7039,5	1424	03	02	A1A	I	IZ3DVW / BEACON			unwanted bcos uncoordinated beacon
DARC	7039,6	0710	01	02	A1A	I	IZ3DVW / BEACON			by IARU not wanted beacon heard 01 13 at 0710, 1158
DARC	7040,0	vt	vd	02	A3E	RUS	Voice of Russia			IM of VOR, heard daily 1514 - 2136
DARC	7043,4	2103	19	02	A3E	HRV	UiBC			distorted Croatian px
DARC	7044,0	1942	13	02	A1A	RUS	REA4 OMSK			endless dots all day all month, heard 1542 - 2132 - is Russian Airforce Omsk
DARC	7044,5	1206	11	02	J7D	RUS	UiMUX	120		MPSK, AT-3004-D
DARC	7044,7	2139	01	02	A1A	RUS	beacon D Sevastopol			spurious of beacon-D on 7038,7
DARC	7045,0	1600	13	02	FSK8	GEO	UiMUX			ALE, selcalls 1BR, 2BR, is Georgian MIL, daily
DARC	7046,0	1630	21	02	XXX		UiMUX			ALE heard
DARC	7054,0	vt	vd	02	F1B	RUS	UiPTR			very active and harmful station as heard all month 0705, 1814 - 2137
DARC	7056,9	1018	05	02	A1A		UiCW			encrypted CW, unid
DARC	7059,2	1920	05	02	A1A	CHN	L9CC			roundslip "CP17 DE L9CC"
DARC	7060,0	1855	22	02	A1A	CHN	L9CC			roundslip
DARC	7061,1	2039	06	02	A1A	CHN	L9CC			roundslip "CP17 DE L9CC"
DARC	7062,1	1747	10	02	A1A	CHN	L9CC			roundslip "CP17 DE L9CC"
DARC	7062,5	1826	13	02	A1A	CHN	L9CC			roundslip "CP17 DE L9CC"
DARC	7062,7	1924	19	02	FSK8	AFG / USA	UiMUX			ALE, selcalls MEROPS, EAGOPS - is US MIL Afhanistan
DARC	7063,9	1954	09	02	A1A	CHN	L9CC			roundslip "CP17 DE L9CC"
DARC	7064,0	1810	11	02	A1A	CHN	L9CC			roundslip "CP17 DE L9CC"
DARC	7064,1	2128	09	02	A1A	CHN	L9CC			roundslip "CP17 DE L9CC"
DARC	7070,0	2205	18	02	A3E		UiBC			program in Spanish voice, weak
DARC	7077,4	vt	vd	02	A1A	RUS	beacon D Sevastopol			spurious of 7038,7 - heard 09 19 at 2056, 2100
DARC	7080,0	1722	18	02	A3E		UiBC			vy distorted px
DARC	7085,0	2158	18	02	A3E		UiBC			Ru px ?, max S 9 + 20 dB, ann: "Praha 1", fading out quickly
DARC	7090,0	vt	vd	02	A3E	RUS	Voice of Russia			splatters from 7105
DARC	7092,0	0215	15	02	FSK8	TUR	Turkish Red			ALE, selcalls 2015, 4016, 4017 - is Turkish

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	REMARKS AND OBSERVATIONS
							Crescent			Red Crescent Emergency Operations Net)
DARC	7098,0	1511	05	02	F1B	RUS	UiPTR	75	250	unid printer, located Kazan area
DARC	7100,0	1733	10	02	XXX		UiMODE			rushing noise, wideband as S9+30dB
DARC	7100,0	1721	17	02	XXX		UiMUX			rushing noise
DARC	7100,0	vt	vd	02	A3E	KRE	Voice of Korea (North)			French px // 3560, heard 10 17 at 1839, 1811
DARC	7100,0	vt	vd	02	A3E	ERI	Voice of Broad Masses			is active all month, heard 13 17 at 1752, 1721
DARC	7102,0	0954	14	02	J7D	RUS	UiMUX	120		MPSK-12, AT-3004-D
DARC	7105,0	2208	19	02	JAM	CHN	Hainan Music Jammer			is active
DARC	7105,0	vt	19	02	A3E	POL	Radio Poland			heard 1658 - 1700 s/off, big signal S 9 + 50 dB, splatters down till 7080
DARC	7105,0	1634	21	02	A3E	POL	Radio Poland			Ge px, S 9 + 50 dB, splattering down till 7085
DARC	7130,0	1725	18	02	JAM	CHN	Hainan Music Jammer			is active
DARC	7130,0	vt	vd	02	JAM	CHN	Hainan Music Jammer			roaring Chinese temple music to jam other BC, heard 10 18 at 1725, 1733
DARC	7142,0	1019	05	02	F1B	RUS	UiPTR	75	250	unid printer, located East Russia
DARC	7153,0	0810	12	02	F1B	RUS	UiPTR	75	200	unid printer
DARC	7168,0	0928	07	02	FSK8		UiMUX			ALE, selcalls J1B, S1L
DARC	7178,0	1016	02	02	J7D	RUS	UiMUX			MPSK-12, AT-3004-D
DARC	7185,0	vt	vd	02	JAM	CHN	Hainan Music Jammer			roaring Chinese temple music, is active 10 18 at 1733, 1725
DARC	7188,0	vt	vd	02	F1B	RUS	UiPTR	81	250	unid printer, area of Moscow, heard 19 27 at 0850, 0813
DARC	7193,0	0950	08	02	F1B	RUS	UiPTR	50	200	unid printer
DARC	7196,0	0947	01	02	F1B	RUS	UiPTR	75	200	unid printer
DARC	7198,0	0850	02	02	J7D	RUS	UiMUX			MPSK-12, AT-3004-D
DARC	10100,8	1733	10	02	F1B	D	DDK9			German Weather Service active all day all month, heard 0712 – 1733 – legal operation!
DARC	10105,0	1959	22	02	FSK8		UiMUX			ALE, selcalls 911, 911913, unid
DARC	10108,0	2020	15	02	G7B		UiMUX			frequency hopper
DARC	10110,0	2307	17	02	P0N	G / CYP	British OTH-Radar Cyprus			OTH Cyprus, 50 pps (50 Hz-system)
DARC	10112,0	0817	01	02	G7D	TUR	UiMUX	2k4		STANAG-4285, 2k4, 8PSK, Turkish MIL, permanent
DARC	10112,0	1733	10	02	G7D	TUR	UiMUX	2k4		STANAG-4285, 2k4, 8PSK, Turkish MIL, permanent, heard 10 16 18 21 at 1733, 1453, 1511, 0712
DARC	10114,7	0732	12	02	F1B	RUS	UiPTR	96	1000	system CIS-14, daily

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	REMARKS AND OBSERVATIONS
DARC	10115,2	0712	21	02	F1B		UiPTR			unid printer
DARC	10120,0	1255	10	02	FSK8		UiMUX			ALE, ident 177 to 112, unid net
DARC	10121,0	1048	14	02	F1B	RUS	UiPTR	75	250	unid printer
DARC	10123,0	0911	11	02	F1B	RUS	UiPTR	75	250	unid printer
DARC	10125,0	0945	01	02	J7D	RUS	UiMUX			MPSK-12, AT-3004-D
DARC	10125,0	1228	09	02	FSK8		UiMUX			ALE, "DATA S01", unid
DARC	10125,0	1229	09	02	FSK8	LBY	7RX40 (ALG Emba Tripoli)			ALE, ident TRP - is ALG Emba, to MAE (MFA Algiers)
DARC	10125,0	1229	09	02	FSK8	ALG	7RQ20 (MFA Algiers)			ALE,- is ALG Emba, ident MAE (MFA Algiers)
DARC	10126,5	0856	12	02	FSK10		UiMUX			FSK10, 10 x 125 Bd, MSM - 1250, unid
DARC	10126,6	0834	26	02	FSK10	ALG	UiMUX			MSM-1250, FSK10 , 10 x 125 Bd, location nr. Alger
DARC	10130,0	1623	21	02	A3E		UiBC			weak signal, music
DARC	10130,0	1100	23	02	P0N	G / CYP	British OTH- Radar Cyprus			is active, 50 Hz-system
DARC	10130,0	vt	vd	02	P0N	G / CYP	British OTH- Radar Cyprus			chirping pulses 50 Hz system, heard 01 06 07 at 1644, 1107, 0704
DARC	10130,2	1214	15	02	F1B		UiPTR			unid printer, fast reversals
DARC	10130,3	0828	19	02	F1B		UiPTR			unid printer
DARC	10131,4	vt	18	02	JAM		UiJAM			wobbler, heard 1445 - 1511
DARC	10131,8	1622	09	02	FSK8	M.Ea	UiMUX			ALE, selcalls NAI, RCI - is US MIL Middle East
DARC	10132,0	1135	09	02	A1A	F	FAV22			5-Letter-Groups "NR 31 F 06 12:37:06 1980 BT..." - is CSTEI Favieres, via TX in Vernon
DARC	10133,0	0918	09	02	G7B		UiMUX			frequency hopper
DARC	10133,8	vt	vd	02	F1B	ARS	UiPTR	47	170	daily active, heard 04 09 at 1025, 1600, Saudi Arabia
DARC	10133,9	1214	15	02	F1B		UiPTR			unid printer
DARC	10133,9	1436	16	02	F1B		UiPTR			unid printer
DARC	10134,0	1759	07	02	P0N		Codar HF Radar			unid Codar HF Radar
DARC	10134,0	1852	22	02	P0N		Unid Codar HF Radar			is active
DARC	10136,0	1536	10	02	G7B		UiMUX			frequency hopper
DARC	10136,8	1045	14	02	G7D		UiMUX	2k4		STANAG-4285, 2k4, 8PSK, unid
DARC	10138,0	1524	13	02	P0N		Ui HF Radar			Codar HF-Radar, unid
DARC	10139,5	1511	18	02	F1B		UiPTR			unid printer
DARC	10140,0	0928	12	02	P0N	G / CYP	British OTH- Radar Cyprus			OTH Cyprus, 50 pps (50 Hz-system)
DARC	10140,7	1511	18	02	F1B		UiPTR			unid printer

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	REMARKS AND OBSERVATIONS
DARC	10146,0	1932	09	02	G7B		UiMUX			frequency hopper
DARC	10146,0	1355	26	02	P0N		Unid Codar HF Radar			Codar HF Radar
DARC	10147,0	1541	10	02	G7B		UiMUX			frequency hopper
DARC	10148,0	0956	01	02	F1B	RUS	UiPTR	81	250	unid printer
DARC	10150,0	2106	02	02	G7B		UiMUX			frequency hopper
DARC	10150,0	1740	08	02	G7B		UiMUX			frequency hopper
DARC	10150,0	0753	25	02	P0N	G / CYP	British OTH- Radar Cyprus			50-Hz-system
DARC	13970,0	1019	19	02	JAM	CHN	Hainan Music Jammer			just info
DARC	13999,4	1830	23	02	G7D		UiMUX	2k4		STANAG-4285, 2k4, 8PSK, unid, QTE 220 degs, spatters up into ham band
DARC	14000,0	1518	11	02	F1B	EGY	UiMUX	300	820	Egyptian Telemetry, daily
DARC	14000,0	0700	12	02	A3E	IRN	Radio Iran			spurious from BC on 13810
DARC	14000,0	1335	12	02	FSK8		UiMUX			FSK8, Thales-3000 Skymaster, 8 x 125 Bd, unid, QTE 220 degs.
DARC	14000,0	1440	21	02	N0N	ISR	UiMOD E			multi-carrier-system, 30 kHz wide, gaps between the carriers: 375 Hz, Israel
DARC	14000,0	vt	vd	02	G7B		UiMUX			frequency hopper heard 05 08 at 1712, 1550
DARC	14000,7	vt	vd	02	???	I	UiMode			600 Hz wide saw tooth signal, location Sicily Island, Italy - heard 13 14 at 0732, 0732
DARC	14001,0	0815	01	02	N0N		UiCAR			unid carrier
DARC	14001,8	1000	16	02	F1B		UiPTR	100	170	Codar HF-Radar, , selcalls 1234, 5678 - QTE 220 degs, unid
DARC	14026,0	vt	vd	02	J7D	RUS	UiMUX	120		MPSK-12, AT-3004-D, heard 01 02 03 at 0920 - 0943
DARC	14050,0	0712	13	02	P0N		Unid OTH Radar			unid OTH Radar, 50 pps
DARC	14052,0	vt	vd	02	J7D	RUS	UiMUX	120		MPSK-12, AT-3004-D, heard 13 24 27 at 0707, 1350, 0810
DARC	14120,0	0836	11	02	F1B	RUS	UiPTR	75	250	unid printer
DARC	14120,0	0938	15	02	F1B	RUS	UiPTR	81	250	unid printer
DARC	14120,0	0927	18	02	F1B		UiPTR			unid printer
DARC	14122,0	1007	09	02	J7D	RUS	UiMUX			MPSK-12, AT-3004-D
DARC	14122,0	vt	vd	02	J7D	RUS	UiMUX			MPSK-12, AT-3400-D, heard 04 07 08 09 19 at 0750, 0952, 1007
DARC	14140,0	vt	vd	02	P0N	RUS	Russian OTH- Radar			is active 04 05 60 at 1416, 0916, 0855 - system 50 pps
DARC	14150,0	0712	13	02	P0N	RUS	Russian OTH- Radar			unid OTH Radar, 50 pps
DARC	14190,0	vt	vd	02	P0N	RUS	Russian			system 50 pps, location

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	REMARKS AND OBSERVATIONS
							OTH-Radar			Novgorod, heard 06 07 08 09 at 0930, 0918, 0809, 0730-1006
DARC	14204,0	0918	11	02	F1B	RUS	UiPTR	100	250	unid printer, idling
DARC	14216,0	1021	24	02	FSK8	CHN	UiMUX			ALE, selcalls 716, 165 - PRC-net PR China
DARC	14270,0	1441	06	02	A3E	RUS	Voice of Russia			harmonic of 7135
DARC	14300,0	0845	09	02	XXX		UiMUX			rushing noise
DARC	14300,0	0845	09	02	XXX		UiMUX			rushing noise
DARC	14325,0	0842	28	02	P0N	RUS	Russian OTH-Radar			system ABM-2, 50 pps
DARC	14332,0	0712	21	02	F1B		UiPTR			unid printer
DARC	14336,2	0908	02	02	N0N		UiCAR			carrier, QTE 050 degs.
DARC	14346,7	0708	13	02	F1B	EGY	MFA Cairo	100	170	SITOR-A, MFA Cairo calling "OOVK", Embassy Jakarta
DARC	14350,0	0730	12	02	G7B		UiMUX			frequency hopper
DARC	14350,0	0712	21	02	A3E	ROU	Radio Bucharest			Ge px S 9 + 10 dB, 2f de 7175
DARC	14350,0	0712	21	02	XXX		UiMUX			multiplex
DARC	18101,0	0951	10	02	G7B		UiMUX			frequency hopper
DARC	18105,0	0850	21	02	P0N	G / CYP	British OTH-Radar Cyprus			is active
DARC	18180,0	0922	18	02	JAM	CHN	Hainan Music Jammer			just info
DARC	18180,0	vt	21	02	JAM	CHN	Hainan Music Jammer			is active 0850 - 1421, just info
DARC	21000,0	1052	04	02	G7B		UiMUX			frequency hopper
DARC	21000,0	0856	06	02	P0N	G / CYP	British OTH-Radar Cyprus			25-Hz-system
DARC	21135,0	1123	01	02	FSK8	IRQ	Iraq MOD			ALE, selcalls 3DV, 7DV, IGF
DARC	21135,2	1213	02	02	FSK8	IRQ	Iraq MIL Mossul			ALE, selcall 1642
DARC	21136,7	1018	02	02	G7B	IRQ	UiMUX			MIL-188-110A, 2k4, 8PSK, Iraq
DARC	21205,0	0956	10	02	P0N	G / CYP	British OTH-Radar Cyprus			25-Hz-system

### MRASZ – Hungary - HA7PL (Laci)

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	REMARKS
MRASZ	7000,0	0-24	DLY	02	FSK8	ALG	ESD ASD SKJ ROW POW AKK EKK	125	1750	ALGERIAN MILITARY UNITS CHANGED THEIR CALLSIGNS THIS MONTH. FORMER ESD BECAME ASD, SKJ BECAME DKJ, ROW -> POW AND AKK -> EKK.

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	REMARKS
MRASZ	7000,0	0-24	DLY	02	FSK8	ALG	ALE	125	1750	ANOTHER ALGERIAN MILITARY NETWORK: CY52 THE NET CONTROL CONTACTED AS USUAL WITH CY40, CY51,CY56, RM50
MRASZ	7000,0	0-24	DLY	02	FSK8	LBY	ALE	125	1750	THE LAST MONTH NEW INTRUDER MADE A CHANGE REGARDING ITS STRUCTURE. ZWARA.AND GHADAMES REMAINED BUT MOBILE23 AND MOBILE24 APPEARED.
MRASZ	7003,0	0-24	DLY	02	FSK8	USA	ALE	125	1750	USAF NETWORK WAS BUSY AS USUAL. <b>T01185</b> NET CONTROL STATION CONTACTED WITH R23451, R23574, R23722, R23894, R24509. R23722 CALLED SP1. T01204 ONLY CONTACTED WITH R24388
MRASZ	7005,0	0-24	DLY	02	FSK8	UNID	ALE	125	1750	123461 sounded
MRASZ	7005,0	0-24	DLY	02	FSK8	UNID	ALE	125	1750	8001 sounded
MRASZ	7010,0	0-24	DLY	02	FSK8	UNID	ALE	125	1750	RS-CS NETWORK PRODUCED A GREAT TRAFFIC
MRASZ	7014,0	0-24	DLY	02	FSK8	NIG	ALE	125	1750	NIGERIAN POLICE 411411, 4111,4113,4115,411413, 411414,411415, 4112-4111
MRASZ	7018,0	1910	20	02	FSK2	RUS	REA4	50	250	s7 fast revs and telegram
MRASZ	7027,0	0-24	DLY	02	FSK8	USA	ALE	125	1750	ICZSPR SOUNDED
MRASZ	7034,0	0-24	DLY	02	FSK8	UNID	ALE	125	1750	NEW INTRUDER: 527 CALLED 390.
MRASZ	7034,0	0-24	DLY	02	FSK8	UNID	ALE	125	1750	NEW INTRUDER: 5207 CALLED 390.
MRASZ	7045,0	0-24	DLY	02	FSK8	GEO	ALE	125	1750	GEORGIAN MILITARY NETWORK INTRODUCED NEW STATIONS: GEO, KBR, AZT, ATG, FRN, FWC. THE USUAL ONES WERE: 8GS,2BR,1BR,SJS,BRN, KBT, ART, ZEN, MHE, 4BR, CQB, 3BR.
MRASZ	7054,0	1810	07	02	FSK2	RUS	REA4	50	250	s7 fast revs and telegram
MRASZ	7061,0	0-24	DLY	02	FSK8	NIG	ALE	125	1750	NIGERIAN POLICE 211-511,211211,211216,AN D 411411 CONTACTED 411413,411414,411415

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	REMARKS
MRASZ	7069,0	0-24	DLY	02	FSK8	UNID	ALE	125	1750	NEW INTRUDER: 322 CALLED 304.
MRASZ	7070,0	0-24	DLY	02	FSK8	CHN	ALE	125	1750	288NET VERY ACTIVE. CALLSIGNS: 288,00,738,686,587,571,494,204,334,514,686,510
MRASZ	7083,0	0-24	DLY	02	FSK8	UNID	ALE	125	1750	NEW INTRUDER: 126 CALLED 246
MRASZ	7090,0	0-24	DLY	02	FSK8	UNID	ALE	125	1750	4033 SOUNDED
MRASZ	7092,0	0-24	DLY	02	FSK8	UNID	ALE	125	1750	CALL SIGNS: 1020 IS THE NCS. IT CONTACTED 2013,2011,2012,4017,2010,2014,2015,2016,4015,4016,3012,2017,4001,4011,4012,4013 BUSY UNID NET 4 FIGURES CALLSIGNS
MRASZ	7100,0	0-24	DLY	02	FSK8	UNID	ALE	125	1750	0711 CONTACTED 0807, 1505. SOUNDED: 1000
MRASZ	7100,0	0-24	DLY	02	FSK8	ALG	ALE	125	1750	ASD CONTACTED EKK
MRASZ	7100,0	0-24	DLY	02	FSK8	UNID	ALE	125	1750	MOB2MSS CONTACTED OKROKANMSS
MRASZ	14002,0	1204	23	02	G7D	Ui	UiMUX		2400	FREQUENCY HOPPING TRANSMISSION, RACAL PANTHER-H
MRASZ	14027,0	1128	20	02	G7D	Ui	UiMUX		2400	FREQUENCY HOPPING TRANSMISSION, RACAL PANTHER-H

### OEVSV – Austria – OE3DMA (Alex)

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

### SRAL – Finland – OH2BLU (Pekka)

Society	QRG	UTC	DD	MM	ITU	IDENT	MODE	SH	REMARKS
SRAL	7008,0	0430-0530	27	2		UiPTR	F1B	250	
SRAL	7010,0	1830-1930	23, 27	2		UiBC	A3E		TX intermod?
SRAL	7012,0	1415	28	2		UiPTR	F1B	250	
SRAL	7013,0	1415	28	2		UiMUX	F7		
SRAL	7018,0	1100-1700	dly	2	RUS	REA4	F1B	1000	25 Hz dotter
SRAL	7018,7	0600-1600	16	2		UiCarr	N0N		
SRAL	7018,8	1230	29	2		8ZKU	F1A	250	Calls J3LL
SRAL	7034,0	1400-1500	25	2		UiMUX	F7		
SRAL	7036,0	1600-1630	24	2		UiPTR	F1B	250	



Society	QRG	UTC	DD	MM	ITU	IDENT	MODE	SH	REMARKS
SRAL	7038,7	h24	dly	2	UKR	D	A1A		Sevastopol
SRAL	7038,8	0700-1800	1-11	2	RUS	P	A1A		Kaliningrad
SRAL	7038,9	0600-2100	1-18	2	RUS	S	A1A		Severomorsk/Murmansk
SRAL	7039,0	h24	dly	2	RUS	C	A1A		Moscow
SRAL	7039,0	0500-1400	24	2	RUS	HHHHFB	A1A		C miskeyed?
SRAL	7040,0	1500-1600	4	2		UiBC	A3E		TX intermod?
SRAL	7044,0	1400-1500	*	2	RUS	UiCW	A1A		Days 6, 9, 13 & 20
SRAL	7050,0	1250	17	2	RUS	RGT77	A1A		
SRAL	7054,0	0600-0800	1-8	2	RUS	UiPTR	F1B	200	25 Hz dotter
SRAL	7054,0	1800-2000	1-8	2	RUS	UiPTR	F1B	200	25 Hz dotter
SRAL	7098,0	1300-1330	1	2		UiPTR	F1B	250	
SRAL	7100,0	1755-2100	dly	2	KRE	Voice of Korea	A3E		
SRAL	7100,0	0430-0600	dly	2	ERI	VoBME	A3E		
SRAL	7100,0	1400-1803	dly	2	ERI	VoBME	A3E		
SRAL	7118,0	0900-1330	2, 26	2		UiPTR	F1B	250	37.5 Hz dotter
SRAL	7188,0	0700-1030	16, 17	2		UiPTR	F1B	250	37.5Hz dotter
SRAL	7193,0	1100-1700	8,28	2		UiPTR	F1B	200	
SRAL	7196,0	0800-1000	1	2		UiPTR	F1B	200	
SRAL	7198,0	0900-1000	2	2		UiMUX	F7		
SRAL	10130,0	0640	22	2	CYP	OTH	P0N		40 kHz wide

### USKA – Switzerland – HB9CET (Peter)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
USKA	7018.0	1520	01	02	RUS	REA4	F1B	50	1000	Dots, 50Bd Reversals daily QTF: near Moscow
USKA	7025.2	1005	19	02			J3e u			female Voice, short overs
USKA	7039.0	1530	01	02	RUS	C	A1A			Beacon C Moscow daily
USKA	7044.0	1321	05	02	RUS	REA4	A1A			Dots only; QTF: Omsk daily
USKA	7038.7	1524	01	02	UKR	D	A1A			Beacon D Sevastopol daily
USKA	7045.0	1558	01	02	GEO		J7D	125	1750	ALE MIL188-141A to ART
USKA	7045.0	1606	01	02			J7D	125	1750	ALE MIL188-141A to BRN
USKA	7045.0	1611	01	02			J7D	125	1750	ALE MIL188-141A to CQB
USKA	7045.0	1617	01	02		KB1	J7D	125	1750	ALE MIL188-141A to ZEN - this is KB1
USKA	7045.0	1638	01	02			J7D	125	1750	ALE MIL188-141A to ATG
USKA	7045.0	1657	01	02	GEO		J7D	125	1750	ALE MIL188-141A to 1BR
USKA	7045.0	1718	01	02	GEO	1BR	J7D	125	1750	ALE MIL188-141A to 8GS - this is 1BR
USKA	7045.0	1720	01	02	GEO	KB1	J7D	125	1750	ALE MIL188-141A to ZEN - this is 8GS
USKA	7045.0	1727	01	02	GEO	KB1	J7D	125	1750	ALE MIL188-141A to KBT - this is KB1
USKA	7045.0	1741	01	02	GEO	ATG	J7D	125	1750	ALE MIL188-141A to MHE - this is ATG
USKA	7045.0	1742	01	02	GEO	8GS	J7D	125	1750	ALE MIL188-141A to 2BR - this is 8GS

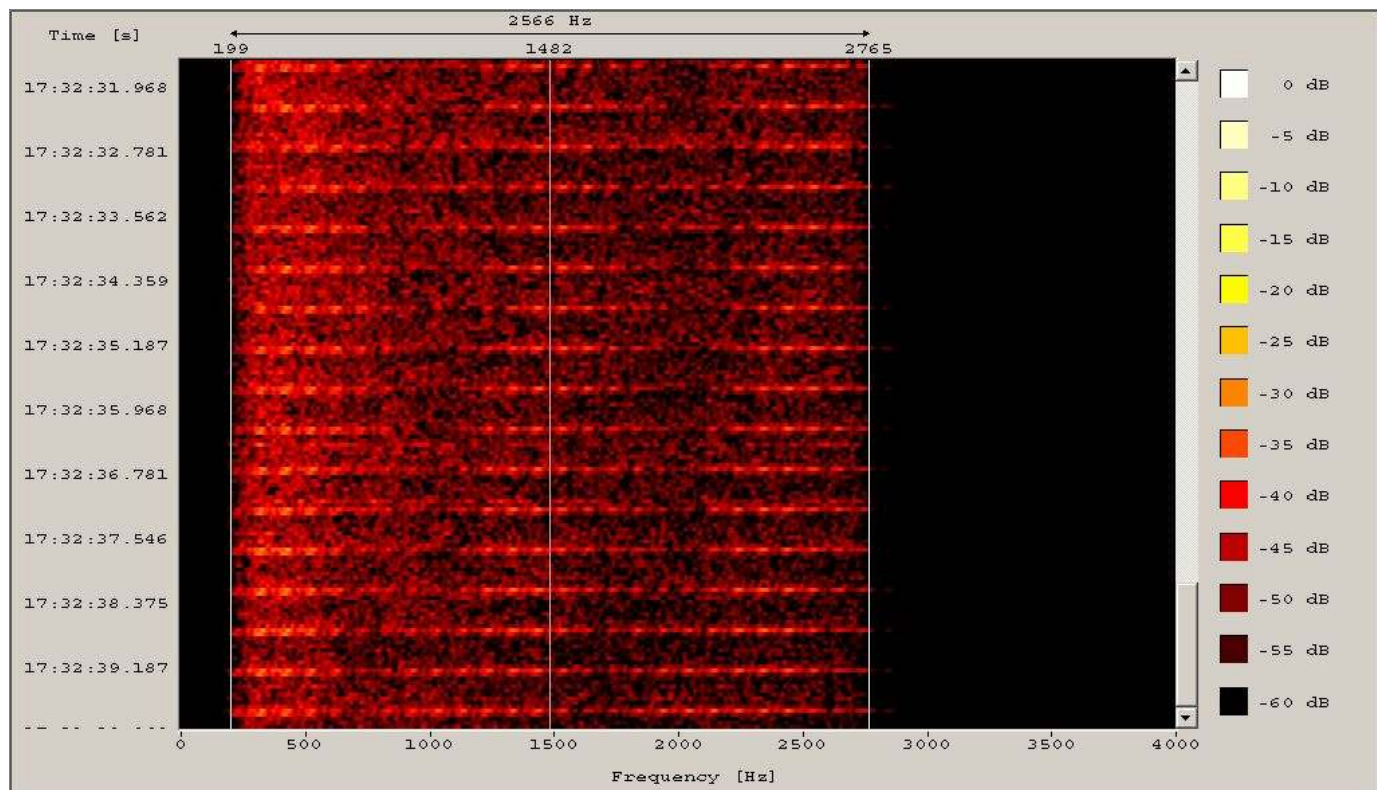
SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
USKA	7045.0	1750	01	02	GEO	8GS	J7D	125	1750	ALE MIL188-141A to 4BR - this is 8GS
USKA	7045.0	0947	11	02			J7D	12x120		MPSK12: CIS12 = AT3004D
USKA	7038.8	1528	01	02	RUS	P	A1A			Beacon P Kaliningrad daily
USKA	7038.9	1526	01	02	RUS	S	A1A			Beacon S Murmansk daily
USKA	7054.0	1815	01	02	RUS		F1B	50	200	unident Printer daily
USKA	7098.0	1348	05	02	RUS		F1B	75	250	unident Printer QTF: near Kazan
USKA	10130.0	1040	10	02	CYP		P0N			OTH Radar 50 pps
USKA	14000.7	15156	13	02	I		N0N			uniden sweep signal, bandwidth about 600Hz; QTF Sicily isl.
USKA	14120.0	0959	11	02			F1B	75	250	uniden Printer, idling strong
USKA	14122.0	1102	08	02			J7D	12x120		CIS12 idling, distorted signal
USKA	14122.0	0952	19	02			J7D	12x120		MPSK12: CIS12 = AT3004D
USKA	14130.0	1332 - 1418	04	02	RUS		P0N			OTH Radar 50 pps ABM2, NATO-Name "Steelyard" QTF: area of Nizhniy Novgorod
USKA	14180.0	1225	06	02	RUS		P0N			OTH Radar 50 pps ABM2, NATO-Name "Steelyard" QTF: area of Nizhniy Novgorod
USKA	14204.0	1012	11	02			F1B	100	250	uniden Printer
USKA	14238.0	1118	21	02			J7D	12x120		MPSK12: CIS12 = AT3004D
USKA	14302.0	1057	08	02			J7D J3E u	12x120		MPSK12: CIS12 = AT3004D QRT 1100 with some rus voice
USKA	14333.0	0928	19	02			J7D	12x120		MPSK12: CIS12 = AT3004D

### Veron – Netherlands – PA0GRU (Dick)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SHIFT	DETAILS
VERON	3512,0	20.06	12	2		UiMUX	J7D		MFSK 8 channels, military
VERON	3737,0	19.24	2	2	E	UiILL	J3Eu		Spanish, male voices, fishery
VERON	7018,0	11.00	**	2	RUS	UiPtr	F1B	1000	19.49 utc, 16 days, Ptr, Rus.Airforce
VERON	7018,0	18.56	27	2	RUS	UiPtr	F1B	1000	Ptr, idle,
VERON	7038,7	06.52	**	2	UKR	D	A1A		21.16 utc, 27 days, beacon Sevastopol
VERON	7038,8	06.52	**	2	RUS	P	A1A		14.24 utc, 11 days, beacon Kaliningrad
VERON	7038,9	06.52	**	2	RUS	C	A1A		18.15 utc, 25 days, beacon Moscow
VERON	7038,9	08.20	**	2	RUS	S	A1A		18.35 utc, 10 days, beacon Murmansk
VERON	7039,2	15.35	1	2	RUS	F	A1A		F-beacon
VERON	7044,0	14.22	5	2	?	UiCW	A1B		dotter
VERON	7044,0	13.28	22	2	RUS	UiCW	A1B		dotter, Russian Airforce
VERON	7044,0	14.12	29	2	RUS	UiCW	A1B		dotter, Russian Airforce
VERON	7044,0	22.20	12	2	RUS	UiCW	A1B		dotter
VERON	7050,0	08.17	18	2	RUS	RGT77	A1A		RGT77 885=(5BL) = K
VERON	7050,0	08.09	19	2	RUS	RGT77	A1A		RGT77 116=(5BL) = K parallel 14092 KHz
VERON	7050,0	09.35	27	2	RUS	RGT77	A1A		RGT77 934 =(5BL) K parallel 14092 KHz
VERON	7054,0	06.55	4	2	RUS	UiPtr	F1B		Revs
VERON	7054,0	21.42	1	2	RUS	UiPtr	F1B	200	Ptr
VERON	7055,5	13.57	7	2	CHN	L9CC	A1A		CP17 de L9CC V (roundslip)
VERON	7056,0	07.00	5	2	CIS	8SIQ	A1A		XXX 8SIQ 36856 PRIHLESTKA
VERON	7056,0	07.00	5	2	CIS	8SIQ	A1A		91444288 KABAN 46738635 K
VERON	7056,0	08.08	5	2	CIS	SX9X	A1A		to COVX,LWL2,6POW,IWJM, NC5W etc
VERON	7059,5	14.14	5	2	CHN	L9CC	A1A		svc nr 280 2200 rmks etc
VERON	7059,5	14.14	5	2	CHN	L9CC	A1A		CP17 de L9CC V (roundslip)
VERON	7061,0	14.55	6	2	CHN	L9CC	A1A		CP17 de L9CC V (roundslip)
VERON	7077,4	21.12	4	2	UKR	D	A1A		D-beacon parallel with 7038,7 KHz

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SHIFT	DETAILS
VERON	7077,4	21.16	18	2	UKR	D	A1A		D-beacon parallel with 7038,7 KHz
VERON	7098,0	14.20	5	2	CIS	UiPtr	F1B	250	Ptr
VERON	7098,0	11.00	1	2		UiPtr	F1B		Ptr
VERON	10120,0	16.32	29	2	Cyprus	OTH-radar	PON		radar, wide 10120-10140 KHz
VERON	10120,8	14.32	17	2		UiPtr	F1B	200	FSK,idling
VERON	14025,0	11.21	1	2	RUS	UiMUX	J7D		MFSK 8 channels, military
VERON	14027,0	14.21	1	2	RUS	UiMUX	J7D		8 channels, MFSK+pilot tone
VERON	14092,0	10.17	4	2	RUS	WEGI	A1A		XXX WEGI 27816 OBNUCHKA 0426 9331
VERON	14092,0	08.09	19	2	RUS	RGT77	A1A		RGT77 116=(5BL) = K parallel 7050 KHz
VERON	14092,0	09.35	27	2	RUS	RGT77	A1A		RGT77 934 =(5BL) K parallel 7050 KHz
VERON	14120,0	09.15	1	2		UiPtr	F1B		Ptr
VERON	14272,0	11.25	1	2	CIS	UiPtr	F1B	200	Ptr
VERON	14319,3	15.15	13	2		UiPtr	F1B	1000	Idling
VERON	14330,0	10.14	28	2	E	UiILL	J3Eu		Spanish, male voices, fishery
VERON	14335,0	11.30	1	2	CIS	UiPtr	F1B	500	Ptr
VERON	14349,0	10.30	10	2	E	UiILL	J3Eu		Spanish, male voices, fishery
VERON	18080,0	12.41	5	2	Cyprus	OTH-radar	PON		Radar, wide 18080-18095 KHz
VERON	18080,0	09.00	23	2		UiILL	J3Eu		unknown language, male voice
VERON	21284,0	15.18	10	2	E	UiILL	J3Eu		Spanish, male voices, fishery
VERON	21311,0	09.22	24	2	Mea	UiILL	J3Eu		Arabic, male voices

### Codar ocean wave HF radar – sonogram with a Wavecom W61 Decoder



# 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>

**Many thanks for your interest!**

## **The monitoring team of IARU Region 1**

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