



# Monitoring System - IARUMS Region 1 -

DK2OM – Wolf Hadel  
Co-ordinator of IARUMS Region 1  
Editor of the Newsletter

DJ9KR – Uli Bihlmayer  
Vice Co-ordinator of IARUMS Region 1  
Editor of the German Overview

The monthly newsletter for Region 1

December 2008

The members of the IARUMS Region 1 monitoring team:



## Acknowledgements

++ ARI: DH7SA - Salvatore ++ ARSK: 5Z4NU - Ted ++ DARC: DJ9KR - Uli ++ IRTS: EI4GXB - Ger ++  
++ MARL: 9H1M – Dominic ++ MRASZ: HA7PL - Laci ++ OEVSU: OE3DMA – Alex ++ RAL: OD5RI – Riri ++  
++ REP: CT4AN – Jose and CT1JTQ – Angelo ++ RSGB: G4BOH - Chris ++ SARL: ZS6AKV - Hans ++  
++ SRAL: OH2BLU - Pekka ++ URE: EA1AHO – Jose ++ USKA: HB9CET - Peter ++ VERON: PA0GRU - Dick ++  
++ G3VZV – Graham (satellite intrusions) ++ TG9AJR – Juan (Co-ordinator Region 2) ++  
++ VU2UR - Arasu (Co-ordinator Region 3) ++ G3PSM - Colin (EC-IARU-R1 ) ++ DF8FE (Webmaster assistance) ++  
++ DL8AAM ++ DK4VW (DARC-HF-Department) ++ DJ7KG ++ DF5SX ++ DARC (server support) ++  
++ various European PTTs ++ IARU Region 1 assistance ++ PB2T – Hans ( IARU R1 President) ++

Part 1: News and infos

Part 2: Detailed reports from the national co-ordinators

Screenshots and measurements: DK2OM with Wavecom decoders

Copyright © IARUMS Region 1 - DK2OM

## Part 1: News and Infos

### 1. 14046.700 kHz – MFA cairo

MFA Cairo was abusing 14046.700 kHz daily for traffic with the EGY embassy in North Korea.  
Details: System Sitor A/B, 100 Bd, 170 Hz shift, semiduplex (2 channel operation), ident of the embassy in Pyongyang: OOVF. Now the traffic is finished caused by actions of SU1KM. Thanks to Mohamed!

### 2. Strong interference from a neighbored Plasma TV

My daily monitoring work is severely affected by a neighbored Plasma TV since about one year.  
The range from 100 kHz is 30 MHz is concerned from 07 – 24 UTC!

### 3. 14000 - Fishery sked

Fishery from Sri Lanka appeared again on 14000 USB.

### 4. 14075 kHz - ALE

I found an ALE system (MIL-188-141A - 8 x 125 Bd, 1750 Hz shift) on 14075, daily, various times.  
The idents are saying, that the system is transmitting from North Korea. (Probably the intelligence service from North Korea!) Bearings from DL are showing 50 – 60 °.

### 5. 7 MHz – Russian Airforce and MIL beacon band

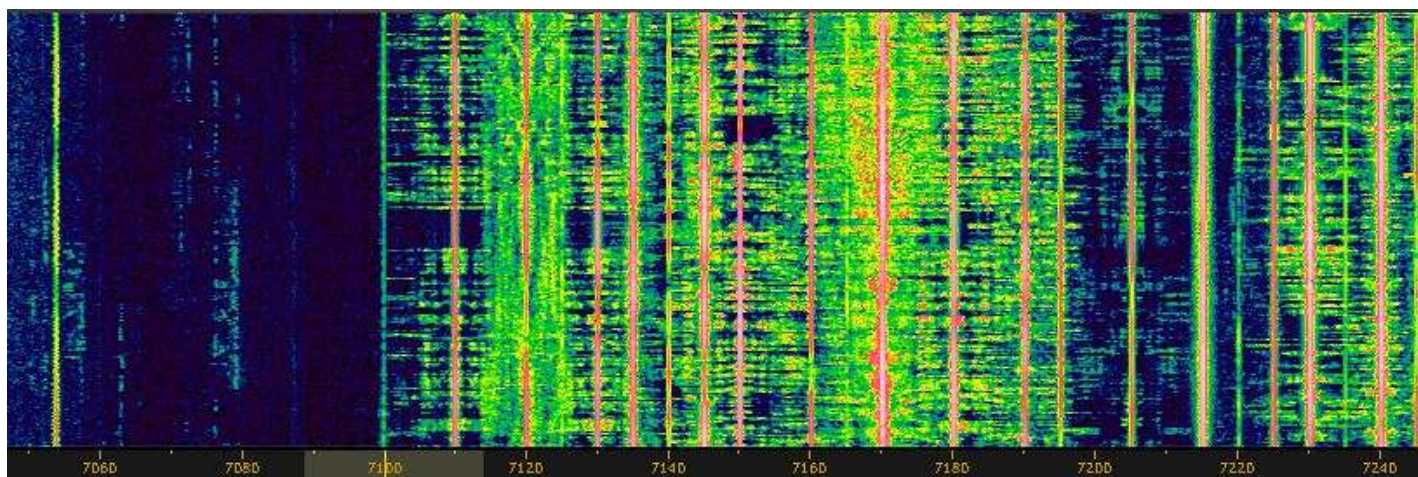
The Russian Airforce returned to 7 MHz band as usual at this time.  
7018 kHz – F1B – 50 Bd, 1 kHz, all day, daily – ident: REA4 – Russian Airforce Moscow  
7044 kHz – A1A – only dots, all day, daily – ident: REA4 – Russian Airforce Omsk  
7054 kHz – F1B – 50 Bd, 200 Hz shift – mostly idling – every morning and evening – location: Moscow  
7039.1 kHz – beacon “A” from the area of Volgograd – last heard in winter 2007/2008  
The other beacons D,P,S,C, K and M are still active. Earlier complaints from the German PTT were disregarded.

### 6. 80 m – shared band with many non amateur systems

In December 2008 I found again many MIL systems from all parts of Europe and even from China (PRC4+4 – 8 x 75 Bd QPSK). In the evening hours I received weather fax from South Korea on 3585 kHz.  
The ident was HLL, and the system was operated by KMA Seoul. Parameters: 120 rpm, IOC 576.  
Do not forget: 3500 – 3800 is a shared band in Region 1.

### 7. 7100 – 7200 kHz – the new range in Region 1

The screenshot is showing the situation in this range on Dec. 18<sup>th</sup> at 20 utc. You can see many BC stations. Until March 29<sup>th</sup>, many BC stations have to leave this range. Let us see, what will happen ...



7100 – 7200 kHz

screenshot: DK2OM with Perseus

8. Homepage IARUMS Region 1 <http://www.iarums-r1.org>  
Homepage IARUMS Region 2 <http://www.tg9ajr.net/Welcome.html> (provisional)  
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 December, 2008

Due to illness monitoring was badly curtailed in December. However, no unusual stations were observed.

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	6999.0	vt	dly	12	ETH?	UiPHONE	J3E	Amharic. Spreads into 40 m. band.
ARSK	6999.0	vt	dly	12	KEN? UGA? TZA?	08, 15, 16, 20, 23, 24, 25, 26, 27, 32, 35, 38, 43, 60, 62, 64, 66,	J3Eu	Spreads into 40 m band. Traffic appears to be details of air movements over East and Central Africa.
ARSK	7000.0	vt	*	12	SOM	Boccaro, Bossasso	J3E	Somalis. *4,11,
ARSK	7008.0	vt	dly	12	SDN	ET, M7, M10, M18, M21, M22, M125, 35,58, 32, CM, WL2	J3E J3Eu	English, vernaculars, verbal Morse.Selcal. SPLA. Both sidebands used. Also uses 6877 KHz. USB.
ARSK	7009.0	0838	4	12	ZAI	UiPHONE	J3Eu	KiSwahili
ARSK	7017.0	0836	4	12	SOM	UiPHONE	J3Eu	Somalis.
ARSK	7022.0	vt	*	12	SOM	UiPHONE	J3Eu	Somalis. *10,
ARSK	7025.0	vt	*	12	SOM	UiPHONE	J3Eu	Somalis.*10,14,
ARSK	7029.0	0835	4	12	SOM	UiPHONE	J3Eu	Somalis.
ARSK	7031.0	vt	*	12	SOM	Baidoa	J3Eu	Somalis. *4,
ARSK	7035.0	vt	*	12	ZAI	UiPHONE	J3Eu	Vernacular. *14,
ARSK	7040.0	1045	14	12	SDN	UiPHONE	J3Eu	Vernclar.
ARSK	7044.0	0722	10	12	SOM	UiPHONE	J3Eu	Somalis.
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. Once heard sendig five letter code groups, presumablyan encrypted mssage.
ARSK	7048.0	vt	dly	12	SDN	WA, S, T, SM, AU, PK, PS, AC, BC, B3, B7, B8, B9, B15,CC, Malakal, Yambio,	J3E	English, vernacular, verbal Morse. NGO or SPLA? Some Arabic heard.
ARSK	7054.0	0330	dly	12	RUS	UiDIGI	RUS	MIL printer, Moscow, heard daily from 0330Z until fading out about 0545Z. Ident from German Intruder Watch.
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.

H'd by	kHz	UTC	dd	mm	ITU	Identity	MODE	Details
ARSK	7069.0	0723	10	12	SOM	UiPHONE	J3Eu	Somalis.
ARSK	7070.0	vt	dly	12	SOM ERI	Asmara, Afmadu, Dobleh, Baidoa, Merere, Garoe, Burhane, Mogadishu, Kismayu, Beletwein	J3Eu	Somalis. SelCal.
ARSK	7071.0	0724	10	12	SOM	UiPHONE	J3Eu	Somalis. Phonepatching.
ARSK	7085.0	0657	11	12	SOM	uiPHONE	J3Eu	Somalis.
ARSK	7089.0	vt	*	12	SOM	UiPHONE	J3Eu	Somalis.*4,14,
ARSK	7100.0	vt	dly	12	ERI	VOBM	A3E	Voice of the Broad Masses, Eritrea, broadcast.

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

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	REMARKS
DARC	3500,0	1706	07	12	J3E-U	RUS	UiILL	net in Russian voice
DARC	3500,0	vt	vd	12	J3E-U	E	UiILL	Spanish fishery heard 06 11 16 21 at 0753, 1837, 2024
DARC	3508,0	2250	04	12	J3E-U	RUS	UiILL	net in Russian voice heard 04 06 at 2250, 2020
DARC	3508,0	2034	09	12	J3E-L	RUS	UiILL	female person in Russian voice
DARC	3510,0	2054	01	12	J3E-U	F	UiILL	French fishery
DARC	3515,0	2150	01	12	J3E-U	HOL	UiILL	Dutch fishery
DARC	3515,0	0800	03	12	J3E-U		UiILL	fishermen in Arabic voice, country Morocco?
DARC	3520,0	1630	10	12	J3E-U	F	UiILL	2 male persons in French voice, engine noise, heard 1630 and 2100
DARC	3523,0	1828	25	12	J3E-U		UiILL	net in Arabic voice, roger beep
DARC	3535,0	vt	18	12	J3E-U	F	UiILL	large net in French voice, Ops Guy, Michel, Philippe - strong engine noise, heard 0755 - 0801 - wishing "bonne route"
DARC	3535,0	vt	vd	12	J3E-U	F	UiILL	French fishery often heard 0800, 0930, 2050
DARC	3540,0	2257	04	12	J3E-U	E	UiILL	Galician fishery
DARC	3540,0	vt	11	12	J3E-U	F	UiILL	male persons in French, strong engine noise, heard 0910 - 0916
DARC	3550,0	0803	02	12	A3E	F	French Lis Hams	French net in AM
DARC	3550,0	1518	06	12	J3E-U	F	French Lis Hams	not respecting IARU rules: No SSB in this part of the 80-m-band
DARC	3550,0	1114	08	12	J3E-U	HOL	UiILL	Dutch fishery heard 08 11 at 1114, 0754
DARC	3551,0	2007	06	12	J3E-U	RUS	UiILL	net in Russian voice
DARC	3561,0	0713	16	12	J3E-U	F	UiILL	French fishery
DARC	3565,0	0907	11	12	J3E-U	I	UiILL	unid male net, Italian (?) dialect?
DARC	3570,0	1952	02	12	J3E-U		UiILL	unid voice scrambler
DARC	3575,0	2102	01	12	J3E-U	G	UiILL	British fishery
DARC	3575,0	1943	09	12	J3E-U	RUS	UiILL	male person counting in Russian voice
DARC	3585,0	2158	17	12	J3E-U	G	UiILL	British fishery
DARC	3585,0	1455	18	12	J3E-U	HOL	UiILL	Dutch fishery
DARC	3600,0	vt	10	12	A3E	F	French Lis Hams	French net in AM
DARC	3600,0	1840	17	12	J3E-U	DNK	UiILL	Danish fishery
DARC	3600,0	vt	vd	12	A3E	F	French Lis Hams	French net in AM
DARC	7000,0	1436	07	12	J3E-L	I	Italian Lis Amateurs	stupid Italian Amateurs: SSB-LSB On 7000 kHz means "Out-Of-Band-Operation"
DARC	7000,0	1436	07	12	J3E-U	F.Ea	UiILL	Far East pirates laughing and singing
DARC	10101,0	0816	05	12	J3E-U	G	UiILL	British fishery
DARC	10101,0	1200	14	12	J3E-U	Af	UiILL	pirates from Africa (Somalia???) heard
DARC	10120,0	1413	14	12	J3E-U	INS	UiILL	pirates, possibly INS
DARC	10120,0	1627	20	12	J3E-U	E	UiILL	Spanish fishery
DARC	10127,5	1111	09	12	J3E-U	E	UiILL	Spanish fishery
DARC	10130,0	1118	10	12	J3E-L	HOL	UiILL	Dutch pirates, LSB used!

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	REMARKS
DARC	10135,9	1017	01	12	J3E-U	F	F6DCN	OP Hervé - not conform to IARU BANDPLAN: No SSB on this Band
DARC	10135,9	1017	01	12	J3E-U	F	F6DLX	OP Régis - not conform to IARU BANDPLAN: No SSB on this Band
DARC	10137,0	0952	06	12	J3E-U	F	French Lis Hams	not respecting IARU rules: No SSB on band 10
DARC	10147,0	1516	18	12	J3E-L	F.Ea	UiILL	pirates from Far East, LSB used
DARC	10150,0	vt	vd	12	J3E-U	E	UiILL	Spanish fishery
DARC	14000,0	vt	vd	12	J3E-U	CLN	UiILL	fishery from Sri Lanka
DARC	14000,5	0901	11	12	J3E-U	CLN	UiILL	fishery from Sri Lanka (Ceylon), USB used
DARC	14001,5	1103	02	12	J3E-L	CLN	UiILL	fishery from Sri Lanka (Ceylon), LSB used
DARC	14025,0	0800	10	12	J3E-U	RUS	UiILL	test counts in Russian voice, 2 male persons, S9+10dB

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

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	REMARKS AND OBSERVATIONS
DARC	3500,0	0706	20	12	G7B		UiMUX			frequency hopper
DARC	3500,0	1906	22	12	FSK8	TUR	UiMUX	125	1750	ALE, selcall 1020 - is Turkish Red Crescent, location Ankara
DARC	3506,0	1651	19	12	FSK8		UiMUX	125	1750	ALE, selcall "J"
DARC	3506,5	1413	15	12	F1B	EST	UiPTR	100	170	unid printer, area of Estonia
DARC	3515,0	2244	01	12	G7B		UiMUX			frequency hopper
DARC	3516,0	0733	03	12	J7D	RUS	UiMUX	120	2600	MPSK-12, AT-3004-D, location Moscow
DARC	3517,0	2005	23	12	J7D	CIS	UiMUX			MPSK-12, AT-3004-D
DARC	3520,0	1610	15	12	J7D	BLR	UiMUX			MPSK-12, AT-3004-D, location Minsk
DARC	3522,0	1117	18	12	F1B	BLR	UiPTR	75	250	printer location N.Ea of Minsk
DARC	3524,0	1444	06	12	J7D	RUS	UiMUX			MPSK-12, AT-3004-D, location West Russia
DARC	3524,8	1926	25	12	F1B		UiPTR	100	170	CODAN, idents 5454, 5151
DARC	3525,0	0644	02	12	J7D	RUS	UiMUX			MPSK-12, AT-3004-D
DARC	3525,0	2211	15	12	FSK8	ALG	UiMUX	125	1750	ALE, selcall ZT109 - is ALG MIL, daily
DARC	3525,0	ady	dly	12	noise	D	Plasma TV set			Plasma TV from neighbouring house, causing harmful interference in the rx of DK2OM, daily, all day
DARC	3526,0	1650	08	12	J7D	RUS	UiMUX			MPSK-12, AT-3004, location Moscow
DARC	3527,0	2148	01	12	F1B	CIS	UiPTR	50	200	unid printer
DARC	3530,2	vt	vd	12	J7D	I	UiMUX			Link-11
DARC	3532,0	1931	28	12	J7D	CIS	UiMUX			MPSK-12, AT-3004-D
DARC	3533,8	1828	04	12	J7D	F	UiMUX			Link-11, location Brest
DARC	3540,0	1859	22	12	G7B		UiMUX			frequency hopper
DARC	3542,0	vt	vd	12	J7D	POL	UiMUX	120	2600	MPSK-12, AT-3004-D, location Wroclaw
DARC	3550,0	2147	01	12	J7D	ROU	UiMUX			MPSK-12, AT-3004-D, location Bucharest
DARC	3550,0	0700	dly	12	A3E	F	French Lis Amateurs			no BC, but French lis Amateurs - not respecting IARU Band Plan
DARC	3550,0	1802	03	12	G7B	CHN	UiMUX	75		PRC4+4, idling, 8 x 75 Bd, QPSK, PRC
DARC	3550,0	2011	19	12	FSK8	MRC	UiMUX	125	1750	ALE, selcalls TAN, 5554 - is Moroccan Oil Net, daily
DARC	3550,0	vt	vd	12	J7D	UKR	UiMUX			MPSK-12, AT-3004-D, location Sevastopol
DARC	3553,8	ady	dly	12	J7D	TUR	UiMUX	2400		STANAG-4285, 2k4, 8PSK, 600 bps long

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	REMARKS AND OBSERVATIONS
DARC	3555,0	ady	dly	12	noise		D Plasma TV set			Plasma TV from neighbouring house, causing harmful interference in the rx of DK2OM, daily, all day
DARC	3556,0	1454	17	12	J7D	CIS	UiMUX			MPSK-12, AT-3004-D
DARC	3557,0	vt	vd	12	F1B	BLR	UiPTR	75	250	unid printer heard
DARC	3560,1	1637	10	12	A3E	KOR	Voice of Korea (North)			frequency always 3560,1 kHz
DARC	3560,5	1633	15	12	F1B	CIS	UiPTR	81	250	unid printer
DARC	3561,0	1840	19	12	F1B	LTU	UiPTR	75	250	printer location Lithuania
DARC	3566,0	2158	01	12	G7B		UiMUX			frequency hopper
DARC	3568,0	vt	vd	12	J7D	UKR	UiMUX			MPSK-12, AT-3004-D, location Kiev
DARC	3568,0	vt	vd	12	J7D	UKR	UiMUX	120	2600	MPSK-12, AT-3004-D, location Dnepropetrovsk
DARC	3569,5	1621	04	12	FSK8		UiMUX	300		FSK8, 300 Bd, burst system
DARC	3570,0	1953	02	12	FSK8	ALG	UiMUX	125	1750	ALE, selcalls YH48, YH51 - is ALG MIL
DARC	3572,0	1811	03	12	G7B	HOL	UiMUX	100	100	QPSK, "BC-PSK", daily
DARC	3574,0	1945	12	12	F1B	F.Ea	UiPTR	200	500	unid printer
DARC	3574,5	2010	07	12	J7D	M.Ea	UiMUX			MPSK-12, AT-3004-D, ship in Persian Gulf
DARC	3577,1	1944	09	12	A1A	I	IZ3DVW / beacon			uncoordinated and unwanted beacon, daily, all day
DARC	3580,0	1448	19	12	J7D	CIS	UiMUX			MPSK-12, AT-3004-D
DARC	3581,8	vt	vd	12	G7D	GRC	UiMUX	2400		StANAG-4285, 2k4, 8PSK, 600 bps long - is Greek ship
DARC	3582,0	0327	27	12	FSK8	CHN	UiMUX	125	1750	ALEI, selcalls 1410, 1671 - is PRC net, daily
DARC	3583,0	2018	04	12	G7B		UiMUX			frequency hopper
DARC	3585,0	1709	24	12	G7B		UiMUX			frequency hopper
DARC	3585,0	vt	vd	12	F3C	KOR	UiMUX		720	weather Fax, 120 rpm, IOC 576, daily heard 1744, 2250
DARC	3586,3	2015	04	12	G7D	CHN	UiMUX	75		PRC4+4, idling, 8 x 75 Bd, QPSK, PRC
DARC	3587,0	1919	04	12	FSK8		UiMUX	125	1750	Thales Skymaster, FFSK8 - data and vocoder traffic
DARC	3588,0	2044	02	12	J7D	RUS	UiMUX			MPSK-12, AT-3004-D
DARC	3593,0	1502	16	12	F1B	RUS	UiPTR	75	250	unid printer
DARC	3593,5	2122	12	12	A1A		beacon S			Murmansk
DARC	3593,6	2122	17	12	A1A		beacon D			Sevastopol
DARC	3593,7	2122	12	12	A1A		beacon P			Kaliningrad
DARC	3600,0	vt	vd	12	A3E	F	French Lis Amateurs			no BC but French lis amateurs in AM
DARC	3610,8	1829	24	12	G7B	CHN	UiMUX	75		PRC4+4, idling, 8 x 75 Bd, QPSK, PRC
DARC	3611,8	1830	23	12	J7D	TUR	UiMUX			Link-11, location East of Istanbul
DARC	3616,5	1812	27	12	FSK8	ALG	UiMUX	125	1750	ALE, selcall ZT2, is ALG MIL
DARC	3617,0	1828	27	12	FSK		IW2AA W, 9A7GAE	125	1750	ALE used by amateurs, just info!
DARC	3648,8	1325	18	12	A1A	RUS	beacon P			Kaliningrad
DARC	3653,0	1709	22	12	F1B	RUS	UiPTR	50	250	location N.Ea Russia
DARC	3658,0	1947	05	12	A1A	UZB	beacon V			is Tashkent
DARC	3658,0	1950	05	12	G7D	I	UiMUX	2400		STANAG-4285, 2k4, 8PSK, 600 bps long, location North Italy
DARC	3717,0	1820	14	12	J7D	RUS	UiMUX	120	2600	MPSK-12, AT-3004-D, location NW of Moscow
DARC	3726,0	1948	03	12	J7D	BLR	UiMUX			MPSK-12, AT-3004-D, location west of Minsk -

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	REMARKS AND OBSERVATIONS
										reported to ITZ
DARC	3732,0	1837	14	12	F1B	BLR	UiPTR	75	250	location North of Minsk
DARC	3735,0	vt	vd	12	F1B	POL	UiPTR	43	500	idling, location South of Warsaw
DARC	3741,0	2050	19	12	F1B	LTU	UiPTR	75	250	printer location Lithuania
DARC	3749,9	1424	21	12	F1B	BLR	UiPTR	96	500	system CIS-14, location West BLR
DARC	3756,0	2049	01	12	A3E	UKR	"The Pip"			10 tones, daily all day
DARC	3764,4	2050	18	12	F1B	HOL	PBH	75	850	Dutch MIL in F1B Baudot
DARC	3782,0	1704	07	12	F1B	POR	CTP Port Navy	75	850	Port Navy HQ Lisbon, ident "CTP"
DARC	3792,0	2015	23	12	F1B	RUS	UiPTR	50	250	unid printer, location area of Kaliningrad
DARC	7000,0	0810	03	12	G7D		UiMUX			frequency hopper
DARC	7000,0	1726	07	09	A3E		Radio Belarus			IM from 7105, Radio Belarus Minsk, daily
DARC	7000,0	1537	09	12	N0N		UiCAR			long lasting carrier
DARC	7000,0	vt	10	12	N0N		UiCAR			long lasting carrier 1526 - 1627
DARC	7000,0	vt	dly	12	FSK8	I	Carabini eri Rome	125	1750	ALE, selcalls 2033, DIA, L4 - heard 01 02 03 at 0750
DARC	7010,0	1036	04	12	FSK8	MKD	UiMUX	125	1750	ALE, selcalls RS005A, CS002A - is Macedonian MIL
DARC	7010,0	1830	11	12	A3E		UiBC			2 px // heard 1830 - 1902
DARC	7018,0	1149	01	12	F1B	RUS	REA4	50	1000	idling // most of the time, daily, all day
DARC	7018,0	0911	09	12	F1B		UiPTR			is active
DARC	7018,0	1406	11	12	F1B	RUS	REA4	50	1000	is active, fast reversals
DARC	7030,0	1029	13	12	F1B	RUS	UiPTR	50	250	unid printer
DARC	7038,7	0630	01	12	A1A	UKR	beacon D Sevastopol			daily 0630 - 2030, 10 reports all month
DARC	7038,8	vt	vd	12	A1A	RUS	beacon P Kaliningrad			located Kaliningrad, heard daily 0646 - 2200, 18 reports
DARC	7038,9	vt	vd	12	A1A	RUS	beacon S Murmansk			daily 0630 - 2030, 12 reports all month
DARC	7039,0	vt	vd	12	A1A	RUS	beacon C Moscow			daily 0630 - 1930, 22 reports all month
DARC	7039,1	1441	24	12	A1A	RUS	beacon A Volgog.			location area of Volgograd ?
DARC	7039,3	1420	15	12	A1A	RUS	beacon K Petropavlovsk			location Petropavlovsk
DARC	7039,8	1151	01	12	A1A	I	IZ3DVW / beacon			not coordinated and not necessary, sometimes harmful interference - daily all day
DARC	7040,0	1702	24	12	A3E		UiBC			IM
DARC	7044,0	1949	02	12	A1A	RUS	REA4			is Russian Airforce located Omsk, daily, all day
DARC	7054,0	1840	01	12	F1B	RUS	UiPTR	50	200	printer heard all month , 0557, 1800 – 2130, Moscow
DARC	7076,0	1032	13	12	F1B	RUS	UiPTR	50	250	unid printer
DARC	7078,0	1430	02	12	J7D	RUS	UiMUX			MPSK-12, AT-3004-D, location Moscow
DARC	7089,5	2036	26	12	F1B	M.Ea	UiPTR	100	130	unid printer
DARC	7090,0	1353	09	12	G7B		UiMUX			frequency hopper
DARC	7090,0	vt	vd	12	J7D	RUS	UiMUX	120	2600	MPSK-12, AT-3004-D, location Murmansk, heard 08 11 at 1558, 1028
DARC	7090,5	1500	16	12	J7D	RUS	UiMUX			MPSK-12, AT-3004-D

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	REMARKS AND OBSERVATIONS
DARC	7095,0	1724	09	12	FSK8	GEO	UiMUX	125	1750	ALE, selcalls DMC, JRB, F1L, SFS - Georgian MIL
DARC	7095,0	1035	10	12	G7B		UiMUX			frequency hopper
DARC	7098,0	0923	09	12	F1B	RUS	UiPTR	75	250	unid printer
DARC	7100,0	vt	08	12	A3E	KOR	Radio Korea (North)			French px (1831); typical mx (1931)
DARC	7100,0	2003	16	12	A3E	KOR	Voice of Korea (North)			is audible, // 3560
DARC	7100,0	vt	vd	12	A3E	ERI	Voice of the Broad Masses			Af tribal music daily 1549 - 1729
DARC	7111,0	1041	16	12	F1B	RUS	UiPTR	75	250	unid printer
DARC	7118,0	0814	05	12	J7D	RUS	UiMUX			MPSK-12, AT-3004-D
DARC	7122,0	1440	24	12	F1B	CIS	UiPTR	50	200	unid printer
DARC	7122,8	0927	04	12	F1B		UiPTR	47	1000	unid printer
DARC	7142,0	0940	25	12	F1B	CIS	UiPTR	75	250	unid printer
DARC	7144,0	1000	07	12	J7D	RUS	UiMUX			MPSK-12, AT-3004-D
DARC	7149,2	0743	14	12	J7D	CIS	UiMUX			MPSK-12, AT-3004-D
DARC	7150,0	0944	09	12	FSK8	ROU	UiMUX	125	1750	ALE, selcalls GRANIT, CODRU - is Romanian MIL, daily
DARC	7159,0	0905	20	12	F1B	CIS	UiPTR	75	200	unid printer
DARC	7162,0	1042	16	12	F1B	RUS	UiPTR	75	250	unid printer
DARC	7168,8	1029	18	12	F1B	RUS	UiPTR	75	250	unid printer, location area of Kaliningrad
DARC	7192,5	1123	16	12	J7D	RUS	UiMUX	120	2600	MPSK-12, AT-3004-D
DARC	7193,0	1435	25	12	F1B	POL	UiPTR	50	200	unid printer, location North of Warsaw
DARC	7196,0	1124	16	12	F1B	RUS	UiPTR	75	200	printer located Kaliningrad
DARC	7198,0	vt	vd	12	J7D	RUS	UiMUX	120	2600	MPSK-12, AT-3004-D, location Kazan - heard 05 26 at 0930 - 1030
DARC	7200,0	1054	11	12	FSK8	IRQ	UiMUX	125	1750	ALE, selcall P2Z10 - is US MIL "10th Mountain Division Nighthawks" in Irak
DARC	10100,0	2038	05	12	G7B		UiMUX			frequency hopper
DARC	10100,9	0742	11	12	F1B	D	DDK			is active
DARC	10105,0	1505	16	12	FSK8	NIG	MOI Niger	125	1750	ALE, selcalls 911917, 911911, 911913 - is Nigerian MOI
DARC	10105,3	0750	19	12	G7B	CHN	UiMUX	75		PRC4+4, idling, 8 x 75 Bd, QPSK, PRC
DARC	10112,0	ady	dly	12	G7D	TUR	UiMUX	2400		STANAG-4285, 2k4, 8PSK, 600 bps long
DARC	10114,7	0725	01	12	F1B	RUS	UiPTR	96	1000	CIS-14, location Moscow
DARC	10119,3	0835	02	12	G7D	CHN	UiMUX	75		PRC4+4, idling, 8 x 75 Bd, QPSK, PRC
DARC	10123,0	0943	19	12	J7D	CIS	UiMUX			MPSK-12, AT-3004-D
DARC	10130,0	1639	20	12	FSK8		UiMUX	125	1750	Thales Skymaster, FFSK8 - 8 x 125 Bd, unid, daily
DARC	10130,0	vt	vd	12	F1B	RUS	UiPTR	50	500	Baudot encrypted, location Moscow, heard 03 04 08 09 10 at 0827 - 1120
DARC	10130,2	vt	11	12	F1B		UiPTR			is active 0742, 0902
DARC	10140,0	1006	02	12	P0N	G / CYP	British OTH-Radar			is active, 50 pps (50-Hz-system)
DARC	10142,1	1445	07	12	MFSK 36	CIS	UiMUX	40	1300	unid CIS36, 36 tones
DARC	10145,0	2020	05	12	P0N	G / CYP	British OTH-Radar			50-Hz-system 20 Khz spread



CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	REMARKS AND OBSERVATIONS
DARC	10146,0	0840	23	12	J7D	RUS	UiMUX			MPSK-12, AT-3004-D, location Kaliningrad
DARC	10148,0	0943	06	12	F1B	RUS	UiPTR	76	250	idling, location Moscow
DARC	14000,0	ady	dly	12	noise	D	Plasma TV set			Plasma TV from neighbouring house, causing harmful interference in the rx of DK2OM, daily, all day
DARC	14000,0	0837	10	12	FSK8	SNG	UiMUX	125	1750	ALE, selcall CN3, 70 - is Singapore Navy - daily
DARC	14000,0	1118	10	12	FSK8	M.Ea	UiMUX	125	1750	ALE, selcall WNG777 - daily at various times - Middle East
DARC	14000,0	vt	dly	12	F1B	EGY	UiMUX	300	820	Egyptian telemetry, various times, daily
DARC	14015,0	0800	dly	12	FSK8	CHN	UiMUX	125	1750	ALE, selcalls 130, 144, 140 - is Chinese MIL, daily
DARC	14026,0	vt	vd	12	J7D	RUS	UiMUX	120	2600	MPSK-12, AT-3004-D
DARC	14035,8	0950	22	12	J7D	E	UiMUX	30		OFDM 72 tones, 2 systems, 30 Bd - location SW of Madrid
DARC	14036,0	1100	19	12	F1B	RUS	REA4	50	2000	harmonic from 7018
DARC	14045,0	1423	04	12	G7B		UiMUX			frequency hopper
DARC	14046,4	vt	vd	12	G7B	EGY KRE	MFA Cairo	75		MFA Cairo with Egy Emba Pyongyang, system CODAN-9001 - 16 x 75 Bd QPSK
DARC	14046,7	vt	vd	12	F1B	EGY KRE	Egy Emba	100	170	Egy Emba Pyongyang with MFA Cairo, Sitor A/B, semiduplex
DARC	14050,0	0639	20	09	F1B		UiPTR			is active
DARC	14052,0	vt	vd	12	J7D	RUS	UiMUX			MPSK-12, AT-3004-D, location Novosibirsk - heard 14 16 at 0741, 1045
DARC	14055,6	1452	29	09	F1B	EGY	UiPTR	100	170	SITOR-A
DARC	14055,7	1452	29	09	F1B	EGY	UiPTR	100	170	SITOR-A, is MFA Cairo
DARC	14070,0	0824	10	12	J7D		UiMUX			MPSK-12, AT-3004-D
DARC	14075,0	1040	13	12	FSK8	KRE	UiMUX	125	1750	ALE, selcalls 563, 510, 639, 640
DARC	14086,0	0722	01	12	J7D	RUS	UiMUX			MPSK-12, AT-3004-D, location Moscow
DARC	14090,0	ady	dly	12	noise	D	Plasma TV set			Plasma TV from neighbouring house, causing harmful interference in the rx of DK2OM, daily, all day
DARC	14108,0	1019	28	12	J7D	RUS	UiMUX			MPSK-12, AT-3004-D
DARC	14116,0	1118	17	12	F1B	RUS	UiPTR	50	250	unid printer
DARC	14125,0	ady	dly	12	noise	D	Plasma TV set			Plasma TV from neighbouring house, causing harmful interference in the rx of DK2OM, daily, all day
DARC	14151,1	0741	08	12	F1B	RUS	UiPTR	81	250	unid printer
DARC	14155,6	1130	08	12	FSK4		UiMUX	105	3000	harmonic from 7077,8
DARC	14178,0	1018	28	12	J7D	RUS	UiMUX			MPSK-12, AT-3004-D
DARC	14180,0	0851	02	12	G7B		UiMUX			frequency hopper
DARC	14191,5	0924		12	G7D		UiMUX	2k	2000	8PSK, RFSM-2000 - 080 degs. From DL
DARC	14192,0	0724	08	12	F1B	RUS	UiMUX	50	500	Russian Navy Kaliningrad
DARC	14206,0	0919	12	12	J7D	RUS	UiMUX			MPSK-12, AT-3004-D, location Kaliningrad
DARC	14241,8	0836	03	12	J7D	RUS	UiMUX	75		16 x 75 Bd, BPSK, location east of Moscow
DARC	14242,0	0957	21	12	J7D	RUS	UiMUX	120	2600	MPSK-12, AT-3004-D, location Nishniy Novgorod

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	REMARKS AND OBSERVATIONS
DARC	14289,0	0740	08	12	F1B	RUS	UiPTR	50	250	unid printer
DARC	14295,0	0911	02	12	G7B		UiMUX			frequency hopper
DARC	14295,2	0723	01	12	A3E	TJK	UiBC			3 <sup>rd</sup> - from 4765
DARC	14317,0	1114	05	12	G7B		UiMUX			frequency hopper
DARC	14318,4	1114	05	12	A1A		letters "RS"			letters "RS" permanent, endless slip, QTE 060
DARC	14349,5	0859	19	12	BPSK		UiMUX	63		unid BPSK, direction 060 from DL
DARC	14350,0	0724	01	12	J7D	RUS	UiMUX			MPSK-12, AT-3004-D
DARC	18159,0	0952	02	12	G7B		UiMUX			frequency hopper
DARC	21000,0	ady	dly	12	noise	D	Plasma TV set			Plasma TV from neighbouring house, causing harmful interference in the rx of DK2OM, daily, all day
DARC	21060,0	1012	01	12	G7B		UiMUX			frequency hopper
DARC	28000,0	ady	dly	12	noise	D	Plasma TV set			Plasma TV from neighbouring house, causing harmful interference in the rx of DK2OM, daily, all day

### IRTS – Ireland – EI4GXB (Ger)

### MRASZ – Hungary - HA7PL (Laci)

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	DETAILS
MRASZ	3503,0	1900	25	12	G7D	Ui	UiMUX			LONG BURSTS UNID PSK
MRASZ	3517,0	1536	21	12	FSK8 (ALE)	Ui	UiMUX	125	1750	G3VCG, 9A2EX IW2AAW ARE LEGAL.
MRASZ	3579,0	1844	10	12	G7D	RUS	UiMUX	1k44		AT-3004D (MS5 12 TONE MODEM) WENT OFF AT 1845 BUT START AGAIN IN 2 MINUTES TIME.
MRASZ	3580,0	1520	12	12	PSK8	Ui	UiMUX	2400	3000	STANAG 4285 CONTINUOS
MRASZ	3580,2	1845	10	12	G7D	Ui	UiMUX	2400	3000	PSK TRANSMISSION
MRASZ	3585,0	1730	21	12	F3C	KOR	UiFAX			120RPM FAX WHEATER CHARTS
MRASZ	3583,0	1620	12	12	FSK8 (ALE)	Ui	UiMUX	125	1750	NO CALLSIGN
MRASZ	3585,0	1510	21	12	G7D	RUS	UiMUX	1k44		AT-3004D (MS5 12 TONE MODEM)
MRASZ	3586,0	1525	12	12	FSK2	Ui	UiPTR	301	850	UNID SHORT BURST.
MRASZ	3586,8	1518	12	12	FSK4	Ui	UiMUX	125	900	SHORT BURSTS LOOKS LIKE TADIRAN HF-2000/HF-6000/ PRC-2200 AUTOCALL
MRASZ	3587,0	1752	21	12	F3C	Ui	UiPIC			UNID WATERFALL PICTURE TRANSMISSION by F5BEZ
MRASZ	3593,0	1828	16	12	FSK2	RUS	UiPTR	75	250	UNID PRINTER
MRASZ	3593,7	VT	VD	12	A1A	UKR	BEACON SEVAST OPOL			BEACON D ACTIVE S5.
MRASZ	3594,9	0428	12	12	G7D	Ui	UiMUX		500	UNID PSK SHAPE TRANSMISSION NOT SEEM TO BE AMATEUR

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	DETAILS
MRASZ	3595,0	649	9	12	A1A	Ui	BEACON			UNID B BEACON
MRASZ	3608,0	0418	12	12	FSK2	RUS	UiPTR	50	200	REA4 FAST REVERSALS, TELEGRAM AT 04:20
MRASZ	3620,0	641	9	12	FSK2	Ui	UiPTR	100	1000	UNID STATION
MRASZ	7000,0	VD	VT	12	FSK8 (ALE)	I	UiMUX	125	1750	KF2 CALLED KF1 ONLY ONCE. IS A NEW INTRUDER COMING? Elsag Datamat COMPANY TEST.
MRASZ	7000,0	0-24	DLY	12	FSK8 (ALE)	ALG	UiMUX	125	1750	ALGERIAN FORCES NET MADE WEAK TRAFFIC. STATIONS WERE: POW, DKJ, ASD, EKK, AND SOME NEW: A01, A02, A03, RIS, TSR, IWK, NKJ, LNM, NKV
MRASZ	7000,0	0-24	DLY	12	FSK8 (ALE)	I	UiMUX	125	1750	ITALIAN CARABINIERI NET. BUSY AS EVER.
MRASZ	7000,0	0-24	DLY	12	FSK8 (ALE)	I	UiMUX	125	1750	NEW: 066, 001, 833, 201 3 FIGURES UNID NET
MRASZ	7003,0	0-24	DLY	12	FSK8 (ALE)	Ui	UiMUX	125	1750	BHOPS ONLY SOUNDED NO CONTACT. THEN BH145 CALLED BHOPS. USAF IN KOSOVO?
MRASZ	7005,0	VT	VD	12	FSK8 (ALE)	Ui	UiMUX	125	1750	123483, 123756, 123456 UNID NET AGAIN ACTIVE
MRASZ	7005,0	VT	VD	12	FSK8 (ALE)	G	UiMUX	125	1750	UK FOREST MOORE HF HQ. VERY NEW INTRUDER.
MRASZ	7010,0	0-24	VD	12	FSK8 (ALE)	Ui	UiMUX	125	1750	CS - RS net
MRASZ	7010,0	VT	VD	12	G7D	Ui	UiMUX	2k4	3000	CS-RS NET DATA TRANSMISSION
MRASZ	7011,0	0-24	DLY	12	FSK8 (ALE)	MAU	UiMUX	125	1750	TXZ2 CALLED YW5. SADLY ENOUGH IT IS A NEW FREQUENCY USAGE OF MAURITANIAN UNID INTRUDER. Ex KP-66 net.
MRASZ	7014,0	0-24	DLY	12	FSK8 (ALE)	MAU	UiMUX	125	1750	TXZ3 CALLED YW1; TXZ6 CALLED YW6 MAURITANIAN UNID INTRUDER. Ex KP-66 net.
MRASZ	7014,0	0-24	DLY	12	FSK8 (ALE)	NIG	UiMUX	125	1750	NIGERIAN POLICE 411411 NET
MRASZ	7018,0	VT	VD	12	FSK2	RUS	REA4	50	250	TELEGRAMS AND FAST REVS
MRASZ	7018,5	1100	11	12	FSK2	Ui	UiPTR	50	1000	UNID
MRASZ	7020,0	0-24	VD	12	FSK8 (ALE)	Ui	UiMUX	125	1750	CS - RS net
MRASZ	7026,0	0-24	VD	12	FSK8 (ALE)	Ui	UiMUX	125	1750	BEAST-SAPPER-RENEGADE-FIGHTER-HUNTER-OUTLAW NET ACTIVE. NEW PREFIX IS GECKO. CALLSIGNS ARE THE PREFIXES AND "TOC" OR 1-2 FIGURES SUFFIX. E.G. FIGHTERTOC, FIGHTER6 OR GECKOTOC, GECKO36 AND ETC.

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	DETAILS
MRASZ	7026,0	VT	VD	12	FSK8 (ALE)	Ui	UiMUX	125	1750	642-314 UNID NET
MRASZ	7038,7	VT	VD	12	A1A	UKR	BEACON SEVAST OPOL			BEACON D ACTIVE S5.
MRASZ	7038,8	VTT	VD	12	A1A	RUS	BEACON KALININ GRAD			BEACON P ACTIVE. S5
MRASZ	7038,9	VT	VD	12	A1A	RUS	BEACON MURMA NSK			BEACON S ACTIVE S3.
MRASZ	7039,0	VT	VD	12	A1A	RUS	BEACON MOSCO W			BEACON C ACTIVE. S3
MRASZ	7039,1	1615	26	12	A1Q	RUS	BEACON UNID			BEACON A ACTIVE
MRASZ	7039,6	1100	02	12	A1A	I	BEACON	13		IZ3DVW/BEACON. UNCOORDINATED BEACON?? IZ3DVW/B CAN BE FOUND ON THE WEB. CAN BE LEGAL?
MRASZ	7040,0	1109	02	12	G7D	Ui	UiMUX	2k4		FREQUENCY HOPPING TRANSMISSION
MRASZ	7040,0	1530	21	12	A1A	RUS				UNCOORDINATED BEACON RU3TC/B
MRASZ	7044,0	1500	08	12	FSK2	RUS	UiPTR		250	REA4 FAST REVERSALS
MRASZ	7045,0	VT	VD	12	FM	Ui	UiPIC			PICTURE TRANSMISSION USING 10 kHz BANDWIDTH AS A MINIMUM.
MRASZ	7054,0	622	09	12	FSK2	RUS	UiPTR		250	REA4 FAST REVERSALS
MRASZ	7057,0	1950	08	12	FSK2	RUS	UiPTR		250	REA4 FAST REVERSALS
MRASZ	7057,0	1825	09	12	FSK2	RUS	UiPTR		250	REA4 FAST REVERSALS
MRASZ	7057,0	1838	16	12	FSK2	RUS	UiPTR		250	REA4 FAST REVERSALS
MRASZ	7060,0	VT	VD	12	FSK8 (ALE)	G	UiMUX	125	1750	UK FOREST MOORE HF HQ. VERY NEW INTRUDER.
MRASZ	7061,0	VT	VD	12	FSK8 (ALE)	NIG	UiMUX	125	1750	NIGERIAN POLICE 411411 NET
MRASZ	7070,0	VT	VD	12	FSK8 (ALE)	GEO	UiMUX	125	1750	244-288 NET USUAL TRAFFIC POSSIBLE GEORGIAN NETWORK
MRASZ	7080,0	VT	VD	12	FSK8 (ALE)	ALB	UiMUX	125	1750	THE MYSTERIOUS NET MIGHT BE ALBANIAN MoPO. 5810 SOUNDING ONLY AS USUAL.
MRASZ	7086,0	VT	VD	12	FSK8 (ALE)	D	UiMUX	125	1750	53G CALLED G5A. IT MAYBE GERMAN ARMY AVIATORS CORPS IN BOSNIA? OTHER CALLSIGNS: 54G, 55G.
MRASZ	7086,0	VT	VD	12	F1C	Ui	UiFAX	60		60PPM FAX WEATHER CHART
MRASZ	7090,0	VT	VD	12	FSK8 (ALE)	I	UiMUX	125	1750	UNID NET 4001, 4041, 4053,
MRASZ	7092,0	0-24	DLY	12	FSK8 (ALE)	TUR	UiMUX	125	1750	UNID 4001 NET LOTS OF CALLSIGNS:
MRASZ	7100,0	VT	VD	12	FSK8 (ALE)	Ui	UiMUX	125	1750	2008 SOUNDED UNID.

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	DETAILS
MRASZ	7100,0	VT	VD	12	FSK8 (ALE)	ALG	UiMUX	125	1750	POSSIBLE ALGERIAN FORCES NET: ASD, EKK, DKJ.
MRASZ	7105,0	VT	VD	12	FSK8 (ALE)	Ui	UiMUX	125	1750	LF1 - MAX. UNID CONTACT.
MRASZ	7105,0	VT	VD	12	FSK8 (ALE)	Ui	UiMUX	125	1750	LF1-MAX UNID.
MRASZ	7107,0	VT	VD	12	FSK8 (ALE)	Ui	UiMUX	125	1750	UNID ARABIC VOICE NET ALSO KNOWN AS 4378xx-NET. CALLSIGNS: 437805, 437806, 437815, 437817.
MRASZ	7107,0	VT	VD	12	FSK8 (ALE)	Ui	UiMUX	125	1750	6320 AND 9200 SOUNDED. UNID.
MRASZ	7107,0	VT	VD	12	FSK8 (ALE)	USA	UiMUX	125	1750	ICZSPR SOUNDED US SIPRI Net Gateway, Sigonella
MRASZ	7115,0	VT	VD	12	FSK8 (ALE)	Ui	UiMUX	125	1750	UNID 9201-NET. CALLSIGNS: 9001, 9202.
MRASZ	7116,0	VT	VD	12	FSK8 (ALE)	Ui	UiMUX	125	1750	UNID 4 FIGURES NET. NEW INTRUDER. 11?? AND 17?? SHAPE.
MRASZ	7116,0	VT	VD	12	FSK8 (ALE)	Ui	UiMUX	125	1750	KAMAR98 SOUNDED. UNID.
MRASZ	7141,0	VT	VD	12	FSK8 (ALE)	Ui	UiMUX	125	1750	UNID 7828 SOUNDING.
MRASZ	7149,0	VT	VD	12	FSK8 (ALE)	ALB	UiMUX	125	1750	ALBANIAN MoPO. 5810 SOUNDING.
MRASZ	7150,0	VT	VD	12	FSK8 (ALE)	<b>MDN NOT ROU</b>	UiMUX	125	1750	UNWELCOMED NEW INTRUDER. MOLDOVAN (NOT ROMANIAN) MILITARY NET: CODRU IS THE HQ. IT CALLED STATIONS AS FOLLOWS: ACORD, AUTOGRAF, AZURIU, BG99, CERCETARE, GRANIT, IZVOR, PACIFIC, BALZAM, VITEAZ. ROMANIAN LANGUAGE PHONE PATCHES AND VOICE SCRAMBLER. IN MOLDOVA ROMANIAN LANGUAGE IS SPOKEN.
MRASZ	7150,0	VT	VD	12	FSK8 (ALE)	Ui	UiMUX	125	1750	LIM - TAN. SOUNDED.
MRASZ	7160,0	0-24	DLY	12	FSK8 (ALE)	GEO	UiMUX	125	1750	VERY NEW INTRUDER: GEORGIAN MILITARY FIL-NET. FIL THE CENTRAL STATION. OTHER STATIONS: 5SJ, B24, SFS, BR3, BRR, VB4, FTT, JRB, KDD, MDK, OAA, R1B, SAS, SG1, FIL, JRB, WR3, P1B, ZAL, SIM, DMC GREMIABC.

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	DETAILS
MRASZ	7160,0	VT	VD	12	PSK8	GEO	UiMUX	2k4	3000	SHORT BURSTS AFTER ALE CONNECTION. GEORGIAN MILITARY FIL NET.
MRASZ	7165,0	VT	VD	12	FSK8 (ALE)	Ui	UiMUX	125	1750	UNID 580 AND 630 CALLED 722. 450, 411, 754,
MRASZ	7197,0	VT	VD	12	FSK8 (ALE)	TUR	UiMUX	125	1750	Red Crescent TURKEY 4 FIGURES NET. CALLSIGNS: 3031, 3061, 3015, 3551, 3161, 3251, 3261, 3351, 3421, 3551, 3061, 3771, 4061, 8161, 8541, 8551, 9857, 3651, 9850. NEW INTRUDER.
MRASZ	7200,0	VT	VD	12	FSK8 (ALE)	Ui	UiMUX	125	1750	NEW INTRUDER UNID ARABIC LSB NET 1002 CALLED 1006, 3060, 2060, 3070.
MRASZ	7200,0	VT	VD	12	FSK8 (ALE)	USA	UiMUX	125	1750	US MILITARY AVIATION BRIGADE IN IRAQ. CALLSIGNS: T1CAB= 1st Combat Aviation Brigade, Iraq, , T1Z, T1Z1, T1Z6, T3Z1, R26814, T10CAB, T1Z10, T3Z10, T66CAV.
MRASZ	7200,0	VT	VD	12	FSK8 (ALE)	Ui	UiMUX	125	1750	P2Z10 SOUNDED. UINID
MRASZ	14000,0	VT	VD	12	FSK8 (ALE)	Ui	UiMUX	125	1750	UNID GP-NET, GP3, BA, GP
MRASZ	14000,0	VT	VD	12	FSK8 (ALE)	ALB	UiMUX	125	1750	UNID ALBANIAN NET: BURETO, BALLABANI, MALSHOV, TOPOJANI.
MRASZ	14003,0	VT	VD	12	G7D	RUS	UiMUX	1k44		AT-3004D (MS5 12 TONE MODEM)
MRASZ	14099,0	VT	VD	12	FSK2	KOR	UiPTR	600	600	NORTH KOREAN EMBASSY TRANSMISSION.
MRASZ	14120,0	VT	VD	12	FSK2	RUS	UiPTR	81	250	CIS81
MRASZ	14174,0	0421	12	12	G7D	Ui	UiMUX	2k4	3000	HOPPING
MRASZ	14180,0	VT	VD	12	FSK2	RUS	UiPTR			FAST REVERSALS, REA4.
MRASZ	14193,0	VT	VD	12	G7D	Ui	UiMUX	2k4	3000	HOPPING
MRASZ	14209,0	VT	VD	12	FSK2	KOR	UiPTR	600	600	NORTH KOREAN EMBASSY TRANSMISSION.
MRASZ	14209,0	VT	VD	12	FSK2	KOR	UiPTR	600	600	NORTH KOREAN EMBASSY TRANSMISSION.
MRASZ	14249,0	VT	VD	12	FSK2	KOR	UiPTR	600	600	NORTH KOREAN EMBASSY TRANSMISSION.
MRASZ	18104,0	VT	VD	12	FSK2	RUS	UiPTR	50	250	UNID RUSSIAN RTTY.
MRASZ	21135,2	VT	VD	12	FSK8 (ALE)	Ui	UiMUX	125	1750	MAYBE IRAQI MILITARY. CALLSIGN: 72514.
MRASZ	21400,0	VT	VD	12	PON	Ui	OTHR			RADAR

## REP – Portugal – CT4AN (Jose Francisco)

SOC	KHz	UTC	DD	MM	ITU	IDENT	MODE	DETAILS
REP	3500.0	08.38	12	12			J3E-U	Spanish fishermen to fish market
REP	3500.0	08.10	13	12			J3E-U	Arabic language fishermen
REP	3500.0	23.00	20	12			J3E-U	Spanish fishermen ship-to-ship
REP	3550.0	04.20	02	12			J3E-U	Arab talks + noise 0.78uV S3
REP	3550.0	06.33	02	12			A3E (AM)	French Amateurs <b>OUT OF IARU BAND PLAN</b> 50uV S9
REP	3550.0	08.19	02	12			A3E (AM)	French Amateurs (Gerard) <b>OUT OF IARU BAND PLAN</b>
REP	3550.0	06.29	04	12	F	F6AQK F5MHR	A3E (AM)	French Amateurs <b>OUT OF IARU BAND PLAN</b> 50uV S9
REP	3550.0	07.04	04	12			A3E (AM)	French Amateurs (Jaques) <b>OUT OF IARU BAND PLAN</b>
REP	3550.0	06.27	05	12	F	F6AQK F5MHR	A3E (AM)	French Amateurs <b>OUT OF IARU BAND PLAN</b> 500uV S9+20
REP	3550.0	06.20	10	12			A3E (AM)	French Amateurs transmitting music <b>OUT OF IARU BAND PLAN</b> 158uV S9+10
REP	3550.0	17.44	11	12			J3E-U	Portuguese & Spanish fishermen
REP	3550.0	05.54	15	12			A3E (AM)	French Amateurs <b>OUT OF IARU BAND PLAN</b> 12.5uV S7
REP	3560.0	08.26	13	12			J3E-U	Spanish fishermen ship-to-ship
REP	3560.0	20.52	14	12			A3E (AM)	BC in spanish language
REP	3562.0	22.47	01	12			A3E (AM)	BC Voice of Korea in Spanish **
REP	3565.0	22.25	07	12			J3E-U	Spanish & portuguese fishermen Portuguese language
REP	3565.0	08.38	13	12			J3E-U	Japanese fishermen ship-to-ship
REP	3575.0	08.20	04	12			A3E (AM)	French Amateurs <b>OUT OF IARU BAND PLAN</b> 12.uV S7
REP	3580.0	23.06	09	12			J3E-L	Portuguese fishermen
REP	3594.0	21.31	03	12		D	A1A	Beacon ADY, DLY *
REP	3595.0	21.30	03	12		S	A1A	Beacon ADY, DLY *
REP	7000.0	02.16	10	12			J3E-L	Italian Amateurs QSO <b>OUT OF IARU BAND PLAN</b> 500uV S9+20
REP	7001.0	02.07	05	12			J3E-L	Magreb talkings 3.1uV S5
REP	7014.0	00.48	15	12			J3E-L	Alô, Olá, and equipment tuning 0.39uV S2
REP	7018.0	00.31	02	12	RUS		F1B	Multi FSK (ch 1-12) 6.3uV S6
REP	7020.0	19.56	03	12			J3E-L	NID testing: ...ola,ola,ola, testing alo,alo,alo ... 25uV S8
REP	7017.5	20.00	01	12			F1B	NID
REP	7018.5	22.30	01	12			F1B	NID
REP	7028.0	17.35	19	12			J3E-U	Spanish fishermen with Huelva
REP	7030.0	01.15	28	12			J3E-L	NID making calls
REP	7039.0	07.58	05	12	RUS	C	A1A	MOSCOW Beacon 0.39uV S2
REP	7038.6	07.30	05	12	RUS	S	A1A	MURMANSK Beacon ADY, DLY 0.39uV S2 *
REP	7039.5	08.10	05	12	ITA	K IZ3DVM	A1A	MONSELICE - IZ3DVM Beacon <b>OUT OF IARU BAND PLAN RECOMMENDATIONS FOR H.F. BEACONS</b> 0.39uV S2
REP	7038.7	07.53	05	12	UKR	D	A1A	SEVASTOPOL Beacon ADY, DLY 0.2uV S1 *
REP	7038.8	00.51	15	12	RUS	P	A1A	KALNINGRAD Beacon 0.78uV S3

\* The Stations emitting D and S are timely driven by the same exciter and perfectly synchronized (monitored by two Rx on two trackings oscilloscope).

\*\* BC was appearing every night along this December very weak to be well understandable.

## RSGB - Great Britain – G4BOH (Chris)

## SRAL – Finland – OH2BLU (Pekka)

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	SHIFT	REMARKS
SRAL	7008,0	0730-1130	*	12		UiPTR	F1B	250	Days 2, 4 & 24
SRAL	7010,0	1200-1300	18	12		UiMUX	F7		
SRAL	7018,0	0800-0830	1	12		UiPTR	F1B	225	Dotter 37.5 Hz
SRAL	7018,0	1100-1600	dly	12	RUS	REA4	F1B	1000	
SRAL	7030,0	0800-1400	1, 4, 13	12		UiPTR	F1B	250	Dotter 25 Hz
SRAL	7032,0	0630-1000	11, 15	12		UiMUX	F7		
SRAL	7038,7	h24	dly	12	UKR	D	A1A		Sevastopol
SRAL	7038,8	0730-1600	11-23	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	7038,1	0700-2130	24-31	12	RUS	A	A1A		Astrakhan area
SRAL	7050,7	1220	24	12		UiPTR	F1B	250	
SRAL	7054,0	0500-0800	dly	12	RUS	UiPTR	F1B	200/ 250	25 Hz dotter. Seldom heard also 2000-2200 UT
SRAL	7076,0	0800-1400	13	12		UiPTR	F1B	250	
SRAL	7077,8	-1135	8	12		UiPTR	F1B	1000	
SRAL	7090,0	1000-1230	11	12		UiMUX	F7		
SRAL	7098,0	0830-1100	9	12		UiPTR	F1B	250	
SRAL	7117,8	0800-1215	7, 15	12		UiPTR	F1B	250	Dotter 37.5 Hz
SRAL	7122,7	1000-1230	1, 4	12		UiPTR	F1B	1000	
SRAL	7142,0	0800-1000	25	12		UiPTR	F1B	250	
SRAL	7149,0	0730-0800	2	12		UiPTR	F1B	400	Dotter 20 Hz
SRAL	7162,0	1000-1130	1, 24	12		UiPTR	F1B	250	
SRAL	7168,8	1030-1230	23	12		UiPTR	F1B	250	
SRAL	7186,0	0930-1000	18	12		UiMUX	F7		
SRAL	7190,0	0900-1015	26	12		UiMUX	F7		
SRAL	7193,0	1215-1245	30	12		UiPTR	F1B	200	
SRAL	7196,0	0800-1240	*	12		UiPTR	F1B	200/ 225	Dotter 37.5 Hz
SRAL	7198,0	0830-1130	5	12		UiMUX	F7		

## URE – Spain - EA1AHO (Jose)



## USKA – Switzerland – HB9CET (Peter)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
USKA	7010.0	1021	11	12	MKD		FSK8	125	1750	MIL 188-141A, ALE vt daily To: RS0 This is: CS002
USKA	7018.0	1946	4	12		REA4	F1B	50	1000	daily
USKA	7032.0	0917	11	12			J7D	12x120		MPSK-12: CIS 12 = AT3004D
USKA	7038.1	1008	15	12			PSK			idling PSK over hours, no id
USKA	7038.7	1512	4	12	UKR	D	A1A			Beacon D Sevastopol daily
USKA	7038.8	1026	14	12	RUS	P	A1A			Beacon P Kaliningrad daily
USKA	7038.9	1636	4	12	RUS	S	A1A			Beacon S Murmansk daily
USKA	7039.0	1511	4	12	RUS	C	A1A			Beacon C Moscow daily
USKA	7039.1	1631	26	12	RUS	A	A1A			Beacon A Peteropavlovsk
USKA	7039.3	1912	5	12	RUS	K	A1A			Beacon K Peteropavlovsk
USKA	7044.0	1419	11	12			A1A			fast Dots only, daily
USKA	7054.0	1947	4	12			F1B	50	200	unid printer
USKA	7090.0	1423	11	12			J7D	12x120		MPSK-12: CIS 12 = AT3004D
USKA	7095.0	vt	vd	12	GEO		FSK8	125	1750	MIL 188-141A, ALE: BR3; F1L; BRR; DMC; JRB; SAS; SFS; SG1; 5SJ; ZAL; FTT; VB4
USKA	7122.0	0905	6	12			F1B	75	250	unid printer
USKA	7188.0	0939	14	12			F1B	81	250	unid printer
USKA	14052.0	0928	14	12			J7D	12x120		MPSK-12: CIS 12 = AT3004D
USKA	14192.0	1348	19	12			F1B	50	500	unid printer

## Veron – Netherlands – PA0GRU (Dick) – Part 1

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
VERON	3500,0	20.48	7	12	E	UiILL	J3Eu			Spanish male, fishery
VERON	3507,0	14.31	15	12		UiPtr	F1B			Ptr
VERON	3508,0	20.26	12	12		UiILL	J3Eu			male voice, military, Slavic language
VERON	3525,0	16.02	6	12	RUS	UiMUX	J7D			12 ch MPSK AT-3004 D
VERON	3533,0	19.37	14	12		The Pip	A3E			The Pip- channel marker
VERON	3555,0	16.03	vd	12	RUS	UiMUX		2K4		18.49 utc, 3 days, Stanag 4285 8 PSK
VERON	3567,0	15.58	19	12		UiPtr	F1B		800	Ptr
VERON	3580,0	16.06	19	12	RUS	UiMUX	J7D			12 ch MPSK AT-3004 D
VERON	3588,0	18.59	3	12		UiPtr	F1B		200	Revs
VERON	3640,0	09.00	31	12		UiCW	A1A			5F
VERON	3658,0	16.19	6	12	UZB	V	A1A			beacon Tashkent, Uzbekistan
VERON	3709,0	14.32	15	12		UiMUX				rushing noise
VERON	3727,0	19.00	3	12	RUS	UiMUX	J7D			12 ch MPSK AT-3004 D
VERON	3728,0	15.59	29	12		UiPtr	F1B		250	Ptr
VERON	3732,0	16.09	6	12		UiMUX	G7D	2k4		Stanag 4285 D8PSK
VERON	3735,0	vt	vd	12	CIS	UiPtr	F1B		500	3 days, Ptr
VERON	3735,0	16.10	19	12		UiPtr	F1B		500	Ptr
VERON	3758,0	16.01	29	12		UiMUX	J7D			12 ch MPSK AT-3004 D
VERON	3765,0	11.51	16	12		UiPtr	F1B		850	Ptr
VERON	3765,0	vt	vd	12		UiPtr	F1B		850	3 days, Ptr
VERON	3782,0	19.03	3	12		UiPtr	F1B		500	Ptr
VERON	3782,0	vt	vd	12	Portu gal	CTP	F1B	75	850	3 days, Navy Lisboa
VERON	7000,0	07.23	vd	12		UiMUX			175 0	FSK8, 2 days
VERON	7008,0	07.23	4	12		UiPtr	F1B		250	Ptr
VERON	7018,0	12.08	vd	12	RUS	UiPtr	F1B		100 0	19.04 utc, Revs, 7 days, Russian Airforce
VERON	7018,0	11.07	vd	12	RUS	REA4	F1B		100 0	20.00 utc, Revs, 7 days, Russian AF
VERON	7030,0	07.15	4	12		UiPtr	F1B		250	Ptr
VERON	7036,3	15.57	16	12	RUS	UiMUX	F7B			MPSK 3 KHz wide
VERON	7036,3	11.38	18	12	?	UiMUX	F7B			MPSK 3 KHz wide, 21.38 utc, 3 days

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
VERON	7036,3	06.47	19	12	?	UiMUX	F7B			MPSK 2 KHz wide
VERON	7036,3	14.24	22	12	?	UiMUX	F7B			MPSK 3 KHz wide, channels switched
VERON	7038,7	06.50	vd	12	UKR	D	A1A			20.00 utc, beacon, 17 days,
VERON	7038,8	08.20	16	12	RUS	P	A1A			P-beacon Kaliningrad
VERON	7038,9	06.50	vd	12	RUS	C	A1A			20.00 utc, beacon, 18 days, Moscow
VERON	7038,9	07.24	vd	12	RUS	S	A1A			15.53 utc, beacon Murmansk, 13 days
VERON	7039,1	11.00	vd	12	AZB	A	A1A			15.05 utc, beacon Baku, 3 days
VERON	7039,2	06.50	vd	12	RUS	K	A1A			13.40 utc, beacon Kamchatka, 9 days
VERON	7039,4	06.48	vd	12	RUS	M	A1A			07.24 utc, beacon Madagan, 3 days
VERON	7044,0	vt	vd	12	RUS	UiPtr	F1B		500	2 days, Revs, Omsk, Russian Airforce
VERON	7044,0	11.30	vd	12	RUS	REA4	A1B			16.04 utc, dotter, 3 days, Omsk, Rus AF
VERON	7050,0	08.36	2	12	RUS	RGT77	A1A			RGT77 703 = (5BL) = K
VERON	7050,0	10.20	5	12	RUS	RGT77	A1A			RGT77 124 = (5BL)= K
VERON	7050,0	10.15	11	12	RUS	RGT77	A1A			RGT77 983 = (5BL) = K parallel 14092KHz
VERON	7050,0	09.15	29	12	RUS	RGT77	A1A			RGT77 020 = 5BL = K parallel 14092
VERON	7054,0	07.15	vd	12	RUS	UiPtr	F1B		200	18.56 utc, Ptr, 6 days
VERON	7054,0	06.59	vd	12	RUS	UiPtr	F1B		250	20.00 utc, Ptr/Revs, 10 days
VERON	7077,0	13.47	1	12	RUS	UiCW	A1A			ZZD1 BK RPT K ZZV 4882
VERON	7077,0	14.10	1	12	RUS	RJS	A1A			ZZV ZZT 5363 K Proc
VERON	7077,0	13.53	19	12	RUS	RJS	A1A			5BL Proc
VERON	7077,0	14.03	19	12	RUS	RJS	A1A			to RMSB ZZU ZZV 10492 OK ? Proc
VERON	7118,0	10.16	30	12	CIS	UiPtr	F1B		250	Ptr
VERON	7122,0	10.03	23	12	RUS	RDL	A1A			5F (RDL 88806 08494 k)
VERON	7188,0	10.12	30	12	CIS	UiPtr	F1B		250	Ptr
VERON	7196,0	11.44	16	12	CIS	UiPtr	F1B		180	Ptr
VERON	10101,0	13.30	6	12	IRL	UiILL	J3Eu			male voices, Irish
VERON	14025,0	11.40	27	12	RUS	UiMUX	J7D			12 ch MPSK AT-3004 D
VERON	14026,0	10.55	26	12	RUS	UiMUX	J7D			Guard carrier on 14027,4 KHz, 31/12 also
VERON	14092,0	08.36	2	12	RUS	RGT77	A1A			RGT77 703 = (5BL) = K parallel
VERON	14092,0	10.20	5	12	RUS	RGT77	A1A			RGT77 124 = (5BL)= K
VERON	14092,0	10.15	11	12	RUS	RGT77	A1A			RGT77 983 = (5BL) = K parallel 7050 KHz
VERON	14092,0	09.15	29	12	RUS	RGT77	A1A			RGT77 020 = 5BL = K parallel 7050
VERON	14107,0	12.05	28	12		UiMUX	J7D			8 ch MPSK
VERON	14108,0	11.45	5	12	CIS	UiPtr	F1B			carrier/Revs/Ptr
VERON	14116,0	08.44	5	12	?	UiCW	A1A			strings of cyrillic code
VERON	14141,0	12.06	28	12		UiMUX	J7D			8 ch MPSK
VERON	14240,0	09.40	2	12	CIS	UiCW	A1A			ZDS ZDS GN K repeating and 5F
VERON	14240,0	07.54	3	12	RUS	UiMUX	J7D			12 MPSK
VERON	14240,0	10.19	3	12	RUS	UiMUX	J7D			8 MPSK
VERON	18084,5	09.20	4	12		UiPtr	F1B			Idling

**Veron – Netherlands – PA0GRU (Dick) – Part 2**

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SHIFT	DETAILS
VERON	3544,0	15.19	9	12			A3E		Endless list of figures, female voice
VERON	3554,0	15.17	5	12	TUR	UiMux	G7D		Stanag, MPSK-8
VERON	3560,0	15.17	9	12		UiBC	A3E		Music, voices, unid language
VERON	3569,0	15.54	29	12		OTHR	PON		40 Hz system
VERON	3572,0	vt	vd	12	HOL	UiMux		100	PSK
VERON	3589,6	15.21	10	12		UiCar			Persistent strong carrier
VERON	3658,0	15.02	5	12		V	A1A		Beacon, also hrd 13 dec 20.25UTC
VERON	3662,0	20.23	13	12		UiPtr	F1B	850	Printer
VERON	3669,0	15.17	10	12		OTHR	PON		40 Hz system, 4,2 kHz wide
VERON	3700,7	15.07	9	12		UiMux			MPSK-8
VERON	3709,5	15.12	10	12		OTHR	PON		40 Hz system
VERON	3718,7	20.17	13	12		OTHR	PON		50 Hz system
VERON	3732,3	14.53	5	12		1AIU	J7D	3k	MPSK-12, also 29 dec 15.43UTC
VERON	3749,9	14.51	5	12		UiPtr	F1B	500	Printer, also 10 dec 15.09UTC
VERON	3756,0	17.33	13	12	UKR	The Pip	A3E		10 tones
VERON	3782,0	17.26	13	12	POR	UiPtr	F1B	850	Printer
VERON	3789,0	15.37	29	12		UiMux	J7D		MPSK-8
VERON	7013,0	14.47	5	12		UiMux			MPSK-8
VERON	7018,0	14.46	5	12		UiPtr	F1B	1000	Printer, also 10 dec 15.03UTC
VERON	7038,7	vt	vd	12	UKR	D	A1A		Beacon
VERON	7038,9	vt	vd	12	RUS	S	A1A		Beacon
VERON	7039,0	vt	vd	12	RUS	C	A1A		Beacon
VERON	7054,0	20.02	13	12	RUS	UiPtr	F1B	200	Printer
VERON	7065,7	14.56	10	12		OTHR	PON		50 Hz system
VERON	10089,0	15.10	29	12		OTHR	PON		50 Hz system
VERON	10101,0	14.22	5	12		??	J3E-u		English voices (fishery?)
VERON	10112,0	vt	vd	12	TUR	UiMux	G7D	3k	Stanag,4285
VERON	10117,6	14.39	9	12		OTHR	PON		100 Hz system, 2 kHz wide
VERON	10129,5	14.46	9	12			A1A		Fishery buoy
VERON	10149,0	14.33	5	12		UiMux			MPSK-8
VERON	14004,3	15.12	11	12		UiCar	NON		Persistent strong carrier
VERON	14016,5	15.40	11	12		UiMux	G7D		Frequency hopper
VERON	14020,5	14.57	3	12		UiMux	G7B		Frequency hopper
VERON	14026,0	14.58	3	12		UiPtr	F1B	200	Printer
VERON	14030,0	14.15	10	12		UiMux	G7D		Frequency hopper
VERON	14037,4	15.01	3	12		UiCar	NON		Persistent strong carrier
VERON	14038,0	14.22	9	12		UiMux	G7B		Frequency hopper
VERON	14046,5	13.46	14	12		UiPtr	F1B		Printer
VERON	14049,0	14.57	29	12		UiMux	G7B		Frequency hopper
VERON	14120,5	15.21	5	12		UiCar	NON		Persistent strong carrier
VERON	14203,6	15.32	5	12		UiCar	NON		Persistent strong carrier
VERON	14233,0	15.37	5	12		OTHR	PON		50 Hz system
VERON	14234,0	14.32	10	12		UiMux	J7D	2,5K	MPSK-16
VERON	14286,6	15.39	11	12		UiCar	NON		Persistent strong carrier
VERON	14303,4	14.42	10	12		UiCar	NON		Persistent strong carrier
VERON	18124,0	13.42	14	12		OTHR	PON		50 Hz system, 2,5 kHz wide
VERON	18156,0	13.44	14	12		OTHR	PON		50 Hz system, 2,5 kHz wide
VERON	21014,0	12.45	9	12		OTHR	PON		100 Hz system
VERON	21053,1	14.32	3	12		UiMux			MPSK-8
VERON	21113,0	14.34	3	12		UiMux			MPSK-8
VERON	21167,6	14.37	3	12		UiCar	NON		Pers. strong carrier, also 10 dec 13.59UTC
VERON	24902,5	vt	vd	12		UiCar	NON		Persistent strong carrier
VERON	28252,5	13.42	10	12		UiMux			MPSK-8
VERON	28262,0	14.14	3	12		UiCar	NON		Persistent strong carrier
VERON	28313,9	14.17	3	12		UiCar	NON		Pers. strong carrier, also 14 dec 13.00 UTC
VERON	29328,5	14.45	14	12		UiMux	J7D		MPSK
VERON	29377,5	14.46	14	12		OTHR	PON		50 Hz system

# IARUMS Region 1

**A peaceful and healthy new year!**

Manual 2006, Monitoring Template, WAV-files, Fishery Buoys on 10m, Latest Intruder News, Co-ordinator's Corner, Newsletter Collection, Important Links, Contacts, Image Gallery, History of IARUMS Region 1, ITU Informations, the Story of Ron Roden's Life, Successful Actions, Bandplans, Frequency Allocation Tables, ITU Monitoring Reports and Soundfiles are available on:  
<http://www.iarums-r1.org>

**Many thanks for your interest!**

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

**credits:**

**Wavecom Elektronik – Buelach – Switzerland**

**SSB-Electronic – Iserlohn – Germany**

**compiled and published by DK2OM**