



# Monitoring System

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The monthly newsletter for Region 1

## February 2009

### The members of the IARUMS Region 1 Monitoring Team:



### Acknowledgements

++ ARI: DH7SA – Salvatore ++ ARSK: 5Z4NU - Ted ++ DARC: DJ9KR - Uli ++ EARA: SU1KM – Mohamed ++  
++ IRTS: EI4GXB - Ger ++ MARL: 9H1M – Dominic ++ MRASZ: HA7PL - Laci ++ OEVS: 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) ++ DF8FE – Martin (Webmaster assistance) ++ DL8AAM ++ DJ7KG ++  
++ DF5SX ++ DK4VW - Ulli (DARC-HF-Department) ++ DARC (server support) ++ various European PTTs ++  
++ IARU Region 1 assistance ++ PB2T – Hans (IARU R1 President) ++ G3PSM - Colin (EC-IARU-R1) ++

Part 1: News and infos

Part 2: Detailed reports from the national co-ordinators

Screenshots and measurements: DK2OM with Wavecom decoders

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## Part 1: News and Infos

1. **Strong interference by a neighbored Plasma TV and another switching PS – the endless story ...**  
My daily monitoring work is severely affected by a neighbored Plasma TV since more than one year.  
The range from 100 kHz to 30 MHz is concerned from 07 – 24 UTC and later! Monitoring often senseless.

### 2. 10140 kHz – OTH radar Cyprus

The OTH radar Cyprus appeared very often and disturbed the 10 MHz-Band with signals spreading over 20 kHz. Pulse rate often 50 pps.

### 3. 7089.9 kHz – weatherfax from Odessa, Ukraine – still active

We found a weatherfax on 7089.9 kHz with daily transmissions from 1340 - 1400 utc.

The parameters: 60 rpm – IOC: 576, shift 770 Hz, transmitting from an old fax machine.

all days. The German PTT (BNetzA) sent an official complaint to Ukraine.

### 4. 14001.9 kHz – Weatherfax from USA

I found a weatherfax transmission on 14001.9 kHz on February, 18<sup>th</sup> at 17 utc. The parameters: 120 rpm and IOC 576. Ident: "NIK". Source: US Coast Guard Boston. The transmission frequency was possibly mistuned.

I informed AA3GZ, Jack. He sent a complaint to the US Coast Guard. The German PTT was informed, too.

Screenshot from W61 (Wavecom) below!

### 5. 10147 kHz – Far East pirate net

The pirate net on 10147 kHz (LSB) is still very active every day at 1400 utc and (or) later.

Probably male persons from Indonesia.

### 6. Homepage <http://www.iarums-r1.org> - updates

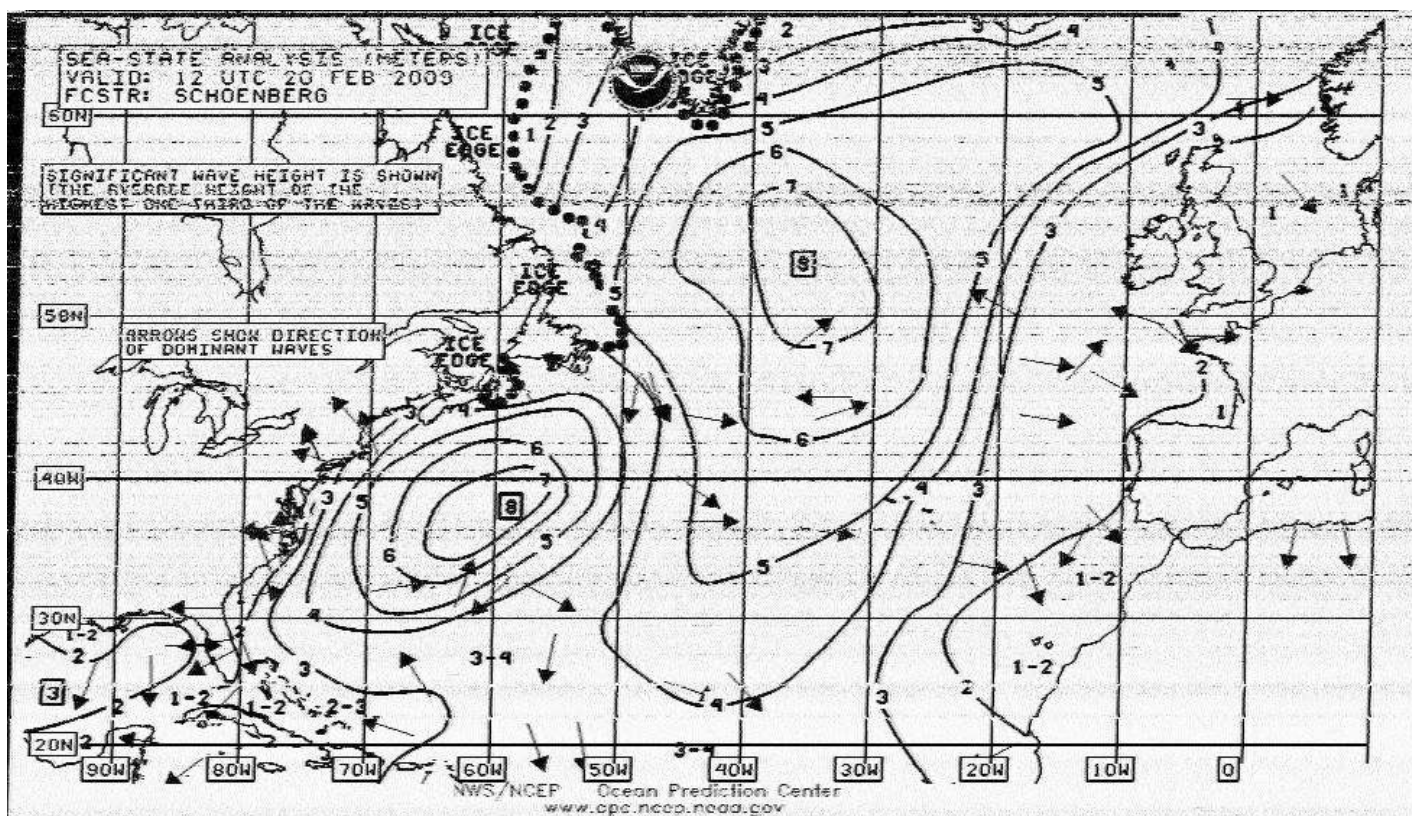
Our homepage has been updated (as usual). No you can use our Intruderlogger or the link to the Dutch SDR-receiver (homepage, left side). Newcomers should read Uli's PPS concerning "How to install an intruderwatch...". The Image Gallery and the History have been updated, too.

### 7. 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/>

## WX-fax on 14001.9 kHz – 120 rpm, IOC 576, ident "NIK", US Coast Guard, possibly mistuned QRG - screenshot: DK2OM with Wavecom W61



## 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 February, 2009

ARSK National IARUMS Co-ordinator, E.H.M. Alleyne, 5Z4NU, was not able to establish a report for February due to health problems. We wish him a good recovery !

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#### ARSK – Kenya – 5Z4NU (Ted)

Not available!

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

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	REMARKS
DARC	3500,0			01			Notice:	The range 3500 - 3800 is also allocated to the Fixed and Mobile Service on a Primary Basis
DARC	3500,0	1817	05	02	J3E-U	HOL	UiILL	Dutch fishery
DARC	3500,0	1845	07	02	J3E-U	POR	UiILL	pirates in Portuguese voice
DARC	3500,0	0815	11	02	J3E-U	G	UiILL	UK fishery, very obscene
DARC	3500,0	2105	18	02	J3E-L	GRC	UiILL	pirates in Greek voice, LSB used
DARC	3500,0	vt	vd	02	J3E-U	E	UiILL	Spanish fishery with family traffic, heard 02 03 at 0830, 1130
DARC	3508,0	2055	17	02	J3E-L		UiILL	male person spelling Russian numbers, LSB used
DARC	3512,0	2052	18	02	J3E-U	G	UiILL	UK fishery, very obscene
DARC	3515,0	2011	05	02	J3E-U	E	UiILL	Galician fishery
DARC	3515,0	2228	26	02	J3E-U	N.Eu	UiILL	Scandinavian pirates
DARC	3520,0	2049	18	02	J3E-U	E	UiILL	Galician fishery
DARC	3520,0	1808	05	02	J3E-U	E	UiILL	Spanish fishery
DARC	3535,0	2039	24	02	J3E-U	G	UiILL	UK fishery, very obscene
DARC	3540,0	2133	11	02	J3E-U	F	UiILL	French fishery
DARC	3550,0	1715	28	02	J3E-U	F	UiILL	French fishery
DARC	3550,0	vt	vd	02	A3E	F	French Lis Amateurs	working AM in CW section, heard 02 04 at 0700, 0849
DARC	3560,0	2116	04	02	J3E-U	N.Eu	UiILL	Scandinavian pirates
DARC	3590,0	vt	dly	02	J3E-U	E	UiILL	Spanish fishery
DARC	3590,0	2224	24	02	J3E-U	UKR	UiILL	MIL from Ukraine
DARC	3600,0	1548	dly	02	A3E	F	French Lis Amateurs	French lis amateurs, daily
DARC	3705,0	1037	06	02	A3E	HOL	Dutch Lis Amateurs	Dutch amateurs in AM
DARC	6996,0	0955	01	02	J3E-U	GRC	UiILL	net in Greek language, USB into ham band
DARC	7000,0	1425	06	02	J3E-U	TUR	UiILL	male person spelling Turkish numbers
DARC	7000,0	1554	09	02	J3E-U	F.Ea / M.Ea	UiILL	pirates from Far East or Middle East
DARC	7000,0	1605	11	02	J3E-L		UiILL	male voices
DARC	7000,0	1355	14	02	J3E-U	I	IW9HIZ	Italian traffic, station already heard November 2007! - is Out-Of-Band operation!
DARC	7000,0	1355	14	02	J3E-U	I	IZ2ACM	Italian traffic - is Out-Of-Band operation!

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	REMARKS
DARC	7000,0	1355	14	02	J3E-U	I	IT9K BX	Italian traffic "IT9K BX 2nd operator"
DARC	7000,0	vt	14	02	J3E-L	I	IZ1MLD	Italian traffic, heard 1015 - 1019 s/off - is Out-Of-Band operation!
DARC	7000,0	vt	14	02	J3E-L	I	IZ1KGM	Italian traffic, heard 1015 - 1019 s/off - is Out-Of-Band operation!
DARC	7000,0	vt	14	02	J3E-L	I	IT9QMM	Italian traffic, heard 1015 - 1019 s/off - is Out-Of-Band operation!
DARC	7000,0	0929	21	02	J3E-L	F	UiILL	male person in French language
DARC	7000,0	vt	22	02	J3E-L	I	IW9HOE	OP Franco, heard 1613 - 1618 s/off
DARC	7000,0	vt	22	02	J3E-L	I	IT9AJL	OP Salvatore, heard 1613 - 1618 s/off
DARC	7000,0	0825	25	02	J3E-U	E	UiILL	Spanish fishery
DARC	7136,0	0950	26	02	J3E-U	E	UiILL	Spanish fishery
DARC	10101,0	1403	07	02	J3E-U	TUR	UiILL	Turkish pirates
DARC	10101,0	0817	12	02	J3E-U	MRC	UiILL	Moroccan fishery
DARC	10116,5	1421	21	02	J3E-U		UiILL	male person singing
DARC	10131,3	1842	16	02	J3E-U		UiILL	unid pirates
DARC	10147,0	0931	13	02	J3E-U	E	UiILL	pirates in Spanish voice
DARC	10147,0	1501	27	02	J3E-L	F.Ea	UiILL	pirates using LSB
DARC	13997,8	1607	27	02	J3E-U	POR	UiILL	pirate net, mostly female persons, using Port. Language, splatters up into ham band
DARC	14000,0	1436	02	02	J3E-U		UiILL	pirate net re-transmitting BC station
DARC	14000,0	1027	18	02	J3E-U	CLN	UiILL	pirates in Tamil from Sri Lanka
DARC	14000,0	1124	27	02	J3E-U	E	UiILL	Spanish fishery
DARC	14000,0	vt	vd	02	J3E-U	CLN	UiILL	pirate net in Tamil language
DARC	14100,0	1012	21	02	J3E-L	RUS	UiILL	2 male persons in Russian

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

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	REMARKS AND OBSERVATIONS
QRM	100 - 30000	07 - 24	dly	02	QRM	D	no			strong interference by a neighboured Plasma-TV – disturbing the monitoring work of DK2OM daily
DARC	1810,0	vt	vd	02	A3E	POL	The Pip			10 tones, location Northern Poland coast of Baltic Sea - heard 04 05 06 at 2033, 2238, 0603
DARC	1847,0	2100	04	02	QRM	D	Plasma TV			harmful interference in the RX of DK2OM by neighbouring Plasma TV
DARC	3500,0	**	**	**	****		Notice			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	3504,4	2049	17	02	F1B		UiPTR	100	170	possibly YAKHTA key
DARC	3505,0	1919	06	02	G7B		UiMUX			frequency hopper
DARC	3506,0	1852	06	02	FSK8		UiMUX	125	1750	ALE, selcalls D, L - unid, daily at various times
DARC	3508,0	2105	17	02	J7D	CIS	UiMUX	120	2600	MPSK-12, AT-3004-D
DARC	3516,0	0600	06	02	FSK8	ALG	UiMUX	125	1750	ALE, selcalls FS33, ZT30 - is ALG MIL daily
DARC	3517,8	2109	04	02	G7D	D	UiMUX	2400	2600	STANAG-4285, 2k4, 8PSK, location Hamburg, daily at various times

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	REMARKS AND OBSERVATIONS
DARC	3522,0	2130	25	02		RUS	UipTR	75	250	unid printer, location N.Ea of Moscow
DARC	3522,3	2039	26	02	F1B	CZE	UipTR	100	150	YAKHTA-FEC-key
DARC	3525,0	2251	18	02	FSK8	ALG	UiMUX	125	1750	ALE, selcall ZT10, is ALG MIL, daily
DARC	3527,0	2257	12	02	F1B		UipTR	50	200	unid printer
DARC	3530,0	vt	dly	02	FSK8	MRC?	UiMUX	125	1750	ALE, selcalls 11043, 580 - complete?
DARC	3531,0	1627	16	02	J7D	UKR	UiMUX	120	2600	MPSK-12, AT-3004-D, location Odessa
DARC	3532,0	1616	12	02	J7D	UKR	UiMUX	120	2600	MPSK-12, AT-3004-D
DARC	3549,0	1840	06	02	F1B	RUS	UipTR	100	150	Yakhta key
DARC	3550,0	2045	03	02	J7D	ROU	UiMUX	120	2600	MPSK-12, AT-3004-D
DARC	3550,0	vt	vd	02	A3E	F	French Lis Amateurs			no BC, but French Lis Amateurs, not conform to bandplan of IARU: no AM in CW section - heard 02 04 at 0700, 0849
DARC	3553,8	1544	01	02	G7D	TUR	UiMUX	2400	2600	STANAG-4285, 2k4, 8PSK, permanent
DARC	3555,5	1740	26	02	F1B	UKR	UipTR	100	150	unid printer, YAKHTA key, FEC
DARC	3556,5	2059	17	02	J7D	CIS	UiMUX	120	2600	MPSK-12, AT-3004-D
DARC	3560,1	1542	01	02	A3E	KRE	Voice of N. Korea			daily active
DARC	3561,0	vt	vd	02	F1B	RUS	UipTR	75	250	unid printer, location East of Moscow - heard 02 24 at 1723, 1659
DARC	3566,8	1925	12	02	G7D	S.Eu	UiMUX	2400	2600	STANAG-4285, 2k4, 8PSK
DARC	3570,0	2222	05	02	FSK8	ALG	UiMUX	125	1750	ALE, selcalls ZT40, ZT30 - ALGL MIL daily
DARC	3572,0	1540	01	02	QPSK	HOL	UiMUX	100	100	BC-PSK, Radio Navigation, The Netherlands
DARC	3576,0	1538	01	02	A3E	UKR	The Pip			10 tones, permanent
DARC	3577,0	1816	05	02	J7D	CIS	UiMUX	120	2600	MPSK-12, AT-3004-D
DARC	3577,0	1950	12	02	A1A	I	IZ3DVW / beacon			unwanted and not coordinated
DARC	3584,9	1709	24	02	F1C	KOR	UiMUX			weather fax, 120 rpm, IOCK-576, location South Korea, legal
DARC	3586,5	1830	06	02	J7D	F	UiMUX	2000	2600	RFSM-2000, 2000 Bd, 8PSK, location Bordeaux
DARC	3586,5	vt	vd	02	OFDM / G7D	BEL	UiMUX	44.5	1800	OFDM 27 tones, 44,5 Bd; location West of Brussels - heard 26 28 at 1758, 1800
DARC	3588,0	1824	06	02	J7D	RUS	UiMUX	120	2600	MPSK-12, AT-3004-D
DARC	3588,0	1704	25	02		BLR	UipTR	75	250	unid printer, location Minsk
DARC	3589,0	1609	22	02	F1B	POL	UipTR	81	250	unid printer, location area of Warsaw
DARC	3590,0	1711	01	02	G7B		UiMUX			frequency hopper
DARC	3592,0	vt	vd	02	J7D	LTU	UiMUX	120	2600	MPSK-12, AT-3004-D, heard 11 16 at 1839, 1630
DARC	3600,0	1548	04	02	A3E	F	French Lis Amateurs			no BC, but French Lis Amateurs, not conform to bandplan of IARU: no AM in CW section - daily active

CLUB	KHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	REMARKS AND OBSERVATIONS
DARC	3602,5	1822	06	02	F1B	UKR	UiPTR	81	200	unid printer, location Lvov
DARC	3611,8	2127	10	02	J7D	TUR	UiMUX			Link-11, location Istanbul
DARC	3612,0	vt	vd	02	J7D		UiMUX			LINK-11, heard 18 24 at 2256, 2225
DARC	3616,5	2206	28	02	J7D	S.Eu	UiMUX	120	2600	MPSK-12, AT-3004-D, ship in Black Sea
DARC	3710,0	1939	17	02	J7D	UKR	UiMUX	120	2600	MPSK-12, AT-3004-D, location West Ukraine
DARC	3727,0	1840	05	02	F1B	UKR	UiPTR	81	250	unid printer
DARC	3735,0	1724	03	02	F1B	POL	UiPTR	49,9	500	unid printer, location South of Warsay, idling, daily
DARC	3764,4	1918	01	02	F1B	HOL	PBH	75	850	printer, HOL MIL, permanent
DARC	3767,0	vt	vd	02	J7D	LTU	UiMUX	120	2600	MPSK-12, AT-3004-D - Lithuania
DARC	3782,0	1710	01	02	F1B	POR	CTP	75	850	printer, Baudot, Port. Navigation
DARC	3792,0	1705	15	02	F1B	RUS	UiPTR	100	200	unid printer, system 50-50, location Kaliningrad
DARC	3792,0	0840	17	02	F1B	RUS	UiPTR	100	200	unid printer, location Kaliningrad
DARC	7000,0	2119	19	02	FSK8		UiMUX	125	1750	ALE, selcall 2211
DARC	7000,0	1642	27	02	N0N		UiCAR			unid carrier
DARC	7000,3	vt	vd	02	N0N	GRC	UiCAR			long lasting carrier, location North of Athens - heard 19 20 at 1935, 2124
DARC	7000,9	0924	27	02	J7D	RUS	UiMUX	35.6	2700	OFDM 60 tones, 35.6 Bd, also male persons in Russian language in USB
DARC	7008,0	0822	10	02	F1B	RUS	UiPTR	75	250	unid printer, location Nishniy Novgorod
DARC	7008,0	0934	11	02	G7B		UiMUX			frequency hopper
DARC	7008,0	0817	12	02	F1B		UiPTR			unid printer heard
DARC	7012,0	1139	20	02	F1B	RUS	UiPTR	75	250	unid printer
DARC	7018,0	1127	01	02	F1B	RUS	REA4 Moscow	50	1000	printer, idling most of the time
DARC	7026,5	1720	09	02	F1B		UiPTR			unid printer heard
DARC	7038,7	1120	01	02	A1A	UKR	Beacon D			Sevastopol
DARC	7038,8	1120	01	02	A1A	RUS	Beacon P			Kaliningrad
DARC	7038,9	1120	01	02	A1A	RUS	Beacon S			Murmansk, Severomorsk
DARC	7039,0	1120	01	02	A1A	RUS	Beacon C			Moscow
DARC	7039,1	1534	01	02	A1A	RUS	Beacon A			Astrakhan
DARC	7044,0	2235	05	02	A1A	RUS	REA4 Omsk			only endless string of dots, MIL Omsk, daily
DARC	7054,0	2216	07	02	F1B	RUS	UiPTR	50	200	printer location Moscow
DARC	7054,0	2004	24	02	F1B	RUS	UiPTR			fast reversals S9+20dB
DARC	7054,0	vt	vd	02	F1B	RUS	UiPTR	50	200	printer location Moscow, heard all month, 19 reports, times: 2200 - 2250
DARC	7055,0	1516	18	02	A3E	IRN	IRIB			fundamental on 7125
DARC	7055,0	1642	27	02	A3E	IRN	IRIB			program in Turkish, totally distorted modulation, fundamental on 7125
DARC	7055,5	1839	12	02	FSK8	CHN	UiMUX	125	1750	ALE, selcalls 107 and 117 - possibly from CHN

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	REMARKS AND OBSERVATIONS
DARC	7056,0	1605	11	02	A3E	IRN	Voice of Iran			Turkish px S9+10dB very much distorted and splattering, fundamental found on 7125
DARC	7056,0	1710	13	02	A3E	IND	All India Radio			distorted px
DARC	7056,0	vt	17	02	A3E	IRN	Voice of Iran			Turkish px S9+10dB very much distorted and splattering, fundamental found on 7125 - 1600 - 1630 s/off
DARC	7056,0	1658	20	02	A3E	IRN	IRIB			is active, fundamental 7125
DARC	7059,0	1709	26	02	A3E		UiBC			BC carrier, weak modulation
DARC	7060,0	2110	22	02	A3E	IRN	IRIB			S9+10dB-signal, wide and splattering, much distortion - course for Spanish listeners, fundamental found on 7130
DARC	7061,7	1012	25	02	F1B	F	UiPTR	75	850	STANAG-4481, location Bordeaux
DARC	7066,0	vt	06	02	A3E	RUS	Voice of Russia			heard 1453 - 2104, fundamental is 7410, also spurious on 7754 heard
DARC	7066,0	vt	08	02	A3E	IND	All India Radio			heard 1434, 1812, 1922
DARC	7066,0	1757	09	02	A3E	IND	All India Radio			nothing heard, however fundamental 7410 is active, no IM!
DARC	7067,0	1708	26	02	G7B		UiMUX			frequency hopper
DARC	7070,0	2219	07	02	A3E		UiBC			BC, moving
DARC	7071,0	1859	06	02	A3E	IND	All India Radio			very wide and overmodulated signal, Indian music, English announcer - fundamental is 7410
DARC	7077,4	2210	02	02	A1A	UKR	Beacon D			IM from 7038,7 - Sevastopol
DARC	7082,0	1226	17	02	J7D	HNG	UiMUX			Link-11, SLEW, location Hungary
DARC	7088,0	1346	02	02	G7B		UiMUX			frequency hopper
DARC	7089,0	0758	04	02	J7D	RUS	UiMUX	120		MPSK-12, AT-3004-D, location Moscow
DARC	7089,9	1420	24	02	G7D		UiMUX			LINK-11, SLEW
DARC	7090,0	1359	23	02	G7B		UiMUX			frequency hopper
DARC	7090,0	1342	dly	02	F1C	UKR	no ident!			Weather Fax 60 rpm, IOC 576, Sevastopol
DARC	7095,0	1832	24	02	A3E	IRN	IRIB			completely distorted modulation, Quran recitals, S9 - fundamental found on 7165
DARC	7098,0	0822	10	02	F1B	RUS	UiPTR	75	250	unid printer, location Nishniy Novgorod
DARC	7100,0	vt	24	02	A3E	KRE	Voice of Korea (North)			heard 1929 - 2004
DARC	7102,5	0849	15	02	J7D	UKR	UiMUX	120	2600	MPSK-12, AT-3004-D, location Odessa
DARC	7120,0	1040	06	02	J7D	RUS	UiMUX			MPSK-12, AT-3004-D
DARC	7122,0	1220	20	02	F1B	RUS	UiPTR	50	250	unid printer, location Kaliningrad - heard 20

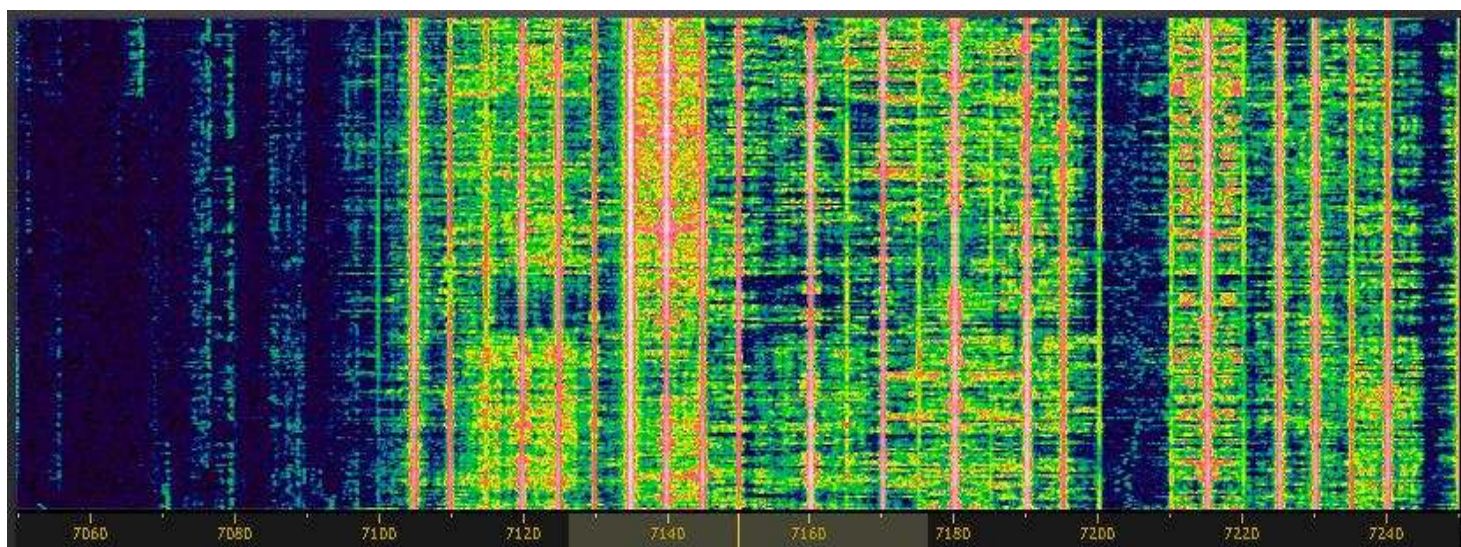
CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	REMARKS AND OBSERVATIONS
										27 at 1220, 1400
<b>DARC</b>	7129,0	1125	21	02	J7D	RUS	UiMUX			MPSK-12, AT-3004-D
<b>DARC</b>	7162,0	vt	vd	02	F1B	RUS	UiPTR	81	250	unid printer, location South of Moscow - heard 09 25 at 1143, 1019
<b>DARC</b>	7167,0	0937	11	02	F1B	RUS	UiPTR	75	250	unid printer, location Novgorod
<b>DARC</b>	7167,0	0938	27	02	F1B	RUS	UiPTR	50	250	unid printer
<b>DARC</b>	7172,0	0918	08	02	J7D	RUS	UiMUX	120		MPSK-12, AT-3004-D, is Russian ship in Biscaya
<b>DARC</b>	7176,0	0951	20	02	F1B	RUS	UiPTR	75	250	unid printer, location Kaliningrad
<b>DARC</b>	7176,0	0939	27	02	F1B	RUS	UiPTR	50	250	unid printer
<b>DARC</b>	7188,0	0818	03	02	F1B	KAZ	UiPTR	81	250	unid printer
<b>DARC</b>	7188,0	vt	vd	02	F1B	RUS	UiPTR	81	250	unid printer heard 09 17 20 at 0820, 0843, 1135 - location East of Moscow
<b>DARC</b>	7197,0	vt	dly	02	FSK8	TUR	Turkish Civil Defense	125	1750	ALE, selcalls 9850, 8061, daily
<b>DARC</b>	7198,0	0818	03	02	J7D QPSK	RUS	UiMUX	120	2600	MPSK-12, AT-3004-D, location East of Moscow
<b>DARC</b>	10096,5	1340	24	02	A3E		UiBC			distorted music, sounds like music form S.Eu
<b>DARC</b>	10100,8	vt	12	02	F1B	D	DKE			German weather service heard 0817 - 1334, daily active, legal!
<b>DARC</b>	10103,1	vt	20	02	N0N		UiCAR			carrier lasting 1245 - 2113, S9+10dB
<b>DARC</b>	10105,0	vt	vd	02	A3E	RUS	Voice of Russia			Urdu px heard 1245 - 1300 s/off - is IM of 9695 and 9900 - heard 02 - 24 at 1245 - 1300 s/off
<b>DARC</b>	10112,0	ady	dly	02	G7D	TUR	UiMUX	2400	2600	STANAG-4285, 2k4, 8PSK, permanent
<b>DARC</b>	10114,7	0756	04	02	F1B	RUS	UiPTR	96	1000	CIS-14, location Moscow
<b>DARC</b>	10115,0	0818	09	02	F1B	RUS	UiPTR	41	200	system FROST-1, 40.8 Bd
<b>DARC</b>	10120,0	1535	01	02	P0N	G / CYP	British OTH-Radar Cyprus			is active, 50 pps
<b>DARC</b>	10120,0	1553	01	02	P0N	G / CYP	British OTH-Radar Cyprus			is active, 30 kHz spread
<b>DARC</b>	10120,0	1922	01	02	A3E		UiBC			unid BC, IM
<b>DARC</b>	10121,0	0844	02	02	F1B	RUS	UiPTR	75	250	unid printer, location Moscow
<b>DARC</b>	10122,8	vt	vd	02	G7D	GRC	UiMUX	2400	2600	STANAG-4285, 2k4, 8PSK, 1200 bps long - heard 03 - 19 every day, times 0603, 1440, 1820 - location Athens, Greece
<b>DARC</b>	10123,0	0917	20	02	F1B	RUS	UiPTR	75	250	unid printer, location Moscow
<b>DARC</b>	10123,0	vt	vd	02	J7D	RUS	UiMUX	120	2600	MPSK-12, AT-3004-D, heard 06 13 at 1044,

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	REMARKS AND OBSERVATIONS
										0947 - location is Moscow
DARC	10125,5	0847	02	02	F1B	RUS	UiPTR	50	500	unid printer, location Moscow
DARC	10130,0	1420	07	02	JAM	RUS	UiJAM			wobble "wow wow wow", location Samara, carrier with both sidebands
DARC	10130,0	vt	dly	02	F1B	RUS	UiPTR	50	500	unid printer, location St. Petersburg
DARC	10130,5	1421	20	02	JAM / A3E		UiJAM			wobble "wow wow wow"
DARC	10130,5	1434	25	02	JAM	KAZ	UiJAM			jammer "wow wow" Kasachstan
DARC	10132,0	0902	14	02	G7B		UiMUX			frequency hopper
DARC	10139,0	1537	24	02	G7B		UiMUX			frequency hopper
DARC	10141,0	0850	20	02	F1B		UiPTR			unid printer heard
DARC	10145,0	1920	01	02	P0N	G / CYP	British OTH-Radar Cyprus			is active, 50 pps
DARC	10145,0	1602	11	02	P0N	G / CYP	British OTH-Radar Cyprus			is active
DARC	10145,0	1929	24	02	P0N	G / CYP	British OTH-Radar Cyprus			is active, 50 pps
DARC	10145,5	1520	27	02	FSK8	G	GM4SLV			legal amateur traffic, just info!
DARC	10148,0	0821	10	02	F1B	RUS	UiPTR	75	250	unid printer, location Moscow
DARC	10148,0	0836	11	02	F1B	RUS	UiPTR	81	250	unid printer, location Moscow
DARC	10149,6	1344	26	02	FSK8	BUL	UiMUX	240	1750	Bulgarian FSK8
DARC	10150,0	1446	13	02	P0N	G / CYP	British OTH-Radar Cyprus			is active, 50 pps
DARC	10150,0	vt	vd	02	P0N	G / CYP	British OTH-Radar Cyprus			is active 04 05 at 1405, 2234 - system 50 pps
DARC	13970,0	1033	25	02	JAM	CHN	Hainan Firedrake Jammer			is active, just info
DARC	13990,0	1350	26	02	P0N	G / CYP	British OTH-Radar Cyprus			is active, splattering up into ham band
DARC	13994,7	0901	17	02	F1B		UiPTR	100	1000	unid printer, splattering into ham band
DARC	14000,0	0726	02	02	A3E		UiBC			BC-IM, unid - QTE 090 degs.
DARC	14000,0	0808	04	02	G7B		UiMUX			frequency hopper
DARC	14000,0	0656	05	02	A3E		UiBC			IM, unid
DARC	14000,0	1245	13	02	FSK8	F.Ea	UiMUX	125	1750	ALE, selcalls 1006, 1640 and 80
DARC	14000,0	1622	vt	dly	FSK8	USA	UiMUX	125	1750	ALE, selcall WNG777 - US Gov
DARC	14001,0	0811	03	02	N0N		UiCAR			unid carrier
DARC	14064,0	vt	vd	02	F1B	RUS	UiPTR	75	250	unid printer, location Moscow - heard 03 04 at 0812, 0755

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	REMARKS AND OBSERVATIONS
DARC	14066,0	1012	20	02	J7D	RUS	UiMUX	120	2600	MPSK-12, AT-3004-D, location Kaliningrad
DARC	14070,0	1410	24	02	G7B		UiMUX			frequency hopper, heard daily at various times
DARC	14084,0	1128	13	02	F1B	RUS	UiPTR	75	250	unid printer, location Moscow
DARC	14091,0	0837	11	02	J7D	RUS	UiMUX	120	2600	MPSK-12, AT-3004-D, location Moscow
DARC	14001,9	vt	vd	02	F1C	USA	NIK			weather Fax 160 rpm, 576, ident NIK, is US Coast Guard - heard 18 20 at 1726, 1735
DARC	14116,0	vt	vd	02	F1B	RUS	UiPTR	75	250	unid printer, location Moscow - heard 03 04 at 0812, 0755
DARC	14143,0	0810	02	02	J7D	RUS	UiMUX	120		MPSK-12, AT-3004-D, location West Russia
DARC	14196,0	0927	10	02	F1B	RUS	UiPTR	75	500	unid printer
DARC	14242,0	1119	03	02	J7D	RUS	UiMUX	120	2600	MPSK-12, AT-3004-D, location Nishniy Novgorod
DARC	14295,0	0924	08	02	P0N	RUS	Russian OTH Radar			ABM-2, 50 pps, pulses lasting only 6 sec. Each
DARC	14295,1	0927	12	02	A3E	TJK	Radio Tajikistan			daily, harmonic of 4765
DARC	14350,0	0936	07	02	P0N	RUS	Russian OTH Radar			system ABM-2, 50 pps
DARC	14420,0	0950	07	02	JAM	CHN	Hainan Firedrake Jammer			is active, just info
DARC	18070,0	0854	02	02	P0N	G / CYP	British OTH-Radar Cyprus			is active, 50 pps
DARC	21055,0	1039	23	02	G7B		UiMUX			frequency hopper

### DARC – Germany – Part 3 – DK2OM (Wolf)

Occupancy of 7100 - 7200 kHz by BC-stations on March 2<sup>nd</sup>, 2009 at 1800 utc  
Sonagram from Perseus



7100 ----- 7200

IRTS – Ireland – EI4GXB (Ger) ---

MRASZ – Hungary - HA7PL (Laci)

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	DETAILS
MRASZ	7000	VT	VD	2	FSK8 (ALE)	I	UiMUX	125	1750	ITALIAN CARABINIERI NET. MODERATE ACTIVITY NO CONNECTION. MAINLY 2211 SOUNDED.
MRASZ	7002	VT	VD	2	FSK8 (ALE)	Ui	UiMUX	125	1750	622 UNID HQ CALLED ITS STATIONS AS FOLLOWS: 452, 518, 957. ABSOLUTELY UNIDENTIFIED.
MRASZ	7006	VT	VD	2	FSK8 (ALE)	USA	UiMUX	125	1750	ICZSPR SOUNDED US SIPRI Net Gateway, Sigonella
MRASZ	7010	VT	VD	2	FSK8 (ALE)	Ui	UiMUX	125	1750	CS - RS net
MRASZ	7010	VT	VD	2	G7D	Ui	UiMUX	2k4	3000	CS-RS NET DATA TRANSMISSION
MRASZ	7011	VT	VD	2	FSK8 (ALE)	G	UiMUX	125	1750	UK FOREST MOORE TASCMM HF HQ. NEW INTRUDER USES ANOTHER FREQUENCY. XSS CALLSIGN
MRASZ	7014	VT	VD	2	FSK8 (ALE)	NIG	UiMUX	15	1750	NIGERIAN POLICE 411411 NET
MRASZ	7015	VT	VD	2	FSK8 (ALE)	Ui	UiMUX	125	1750	DKL, SBN, TDR. NEW INTRUDER AGAIN.
MRASZ	7017	VT	VD	2	FSK8 (ALE)	Ui	UiMUX	125	1750	DD3 SOUNDING. NEW INTRUDER.
MRASZ	7019	VT	VD	2	FSK2	Ui	UiMUX	125	1750	POSSIBLE ITALIAN CARABINIERI NET: 2101 CALLSIGN.
MRASZ	7021	VT	VD	2	FSK8 (ALE)	Ui	UiMUX	125	1750	ORT, 1101, ORTKHON, 1102 UNID AGAIN.
MRASZ	7023	VT	VD	2	FSK8 (ALE)	Ui	UiMUX	125	1750	797, 801 UNID CALLSIGNS
MRASZ	7026	VT	VD	2	FSK8 (ALE)	Ui	UiMUX	125	1750	BEAST-SAPPER-RENEGADE-FIGHTER-HUNTER-OUTLAW NET. LOW ACTIVITY.
MRASZ	7026	VT	VD	2	FSK8 (ALE)	Ui	UiMUX	125	1750	642-314 UNID NET
MRASZ	7032	VT	VD	2	FSK8 (ALE)	Ui	UiMUX	125	1750	293 NEW INTRUDER NET. 293 HQ CALLS 142, 528, 920
MRASZ	7032	VT	VD	2	FSK8 (ALE)	Ui	UiMUX	125	1750	TOM CALLS JIM. UNIDENTIFIED
MRASZ	7036	VT	VD	2	FSK8 (ALE)	Ui	UiMUX	125	1750	ORT, 1101, ORTKHON, 1102 UNID AGAIN.
MRASZ	7060	VT	VD	2	FSK8 (ALE)	G	UiMUX	125	1750	<b>CROSPR</b> Croughton <u>S</u> ecret Internet <u>P</u> rotocol <u>R</u> outer
MRASZ	7070	VT	VD	2	FSK8 (ALE)	GEO	UiMUX	125	1750	244-288 MODERATE TRAFFIC POSSIBLE GEORGIAN NETWORK.
MRASZ	7080	VT	VD	2	FSK8 (ALE)	ALB	UiMUX	125	1750	ALBANIAN MoPO. 5810 SOUNDING
MRASZ	7090	VT	VD	2	FSK8 (ALE)	Ui	UiMUX	125	1750	130 CALLS 135. UNID NET.
MRASZ	7090	VT	VD	2	FSK8 (ALE)	Ui	UiMUX	125	1750	UNID NET 4051
MRASZ	7092	0-24	DL Y	2	FSK8 (ALE)	TUR	UiMUX	125	1750	UNID 4001 NET LOTS OF CALLSIGNS:
MRASZ	7100	VT	VD	2	FSK8 (ALE)	ALG	UiMUX	125	1750	103 CALLS 101

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	DETAILS
<b>MRASZ</b>	7107	VT	VD	2	FSK8 (ALE)	Ui	UiMUX	125	1750	UNID ARABIC VOICE NET ALSO KNOWN AS 4378xx-NET. CALLSIGNS: 437805, 437806, 437815, 437817.
<b>MRASZ</b>	7107	VT	VD	2	FSK8 (ALE)	Ui	UiMUX	125	1750	6320 AND 9200 SOUNDED. UNID.
<b>MRASZ</b>	7107	VT	VD	2	FSK8 (ALE)	USA	UiMUX	125	1750	ICZSPR SOUNDED US SIPRI Net Gateway, Sigonella
<b>MRASZ</b>	7116	VT	VD	2	FSK8 (ALE)	Ui	UiMUX	125	1750	UNID 4 FIGURES NET. 11?? AND 17?? SHAPE.
<b>MRASZ</b>	7116	VT	VD	2	FSK8 (ALE)	Ui	UiMUX	125	1750	KAMAR98 SOUNDED. MAYBE UZBEKH.
<b>MRASZ</b>	7120	VT	VD	2	FSK8 (ALE)	Ui	UiMUX	125	1750	BEN HQ CALLS JIM, MIK, SAM, TOM. AAA SOUNDED.
<b>MRASZ</b>	7141	VT	VD	3	FSK8 (ALE)	Ui	UiMUX	125	1750	7801 SOUNDED
<b>MRASZ</b>	7149	VT	VD	2	FSK8 (ALE)	ALB	UiMUX	125	1750	ALBANIAN MoPO. 5810 SOUNDING
<b>MRASZ</b>	7150	VT	VD	2	FSK8 (ALE)	MDN	UiMUX	125	1750	MOLDOVAN MILITARY NET: CODRU STATIONS AS FOLLOWS: ACORD, AUTOGRAF, AZURIU, BG99, CERCETARE, GRANIT, IZVOR, PACIFIC, BALZAM, VITEAZ. ROMANIAN LANGUAGE PHONE PATCHES AND VOICE SCRAMBLER.
<b>MRASZ</b>	7160	0-24	DL Y	2	FSK8 (ALE)	GEO	UiMUX	125	1750	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.
<b>MRASZ</b>	7160	VT	VD	2	PSK8	GEO	UiMUX	2k4	3000	SHORT BURSTS AFTER ALE CONNECTION. GEORGIAN MILITARY FIL NET.
<b>MRASZ</b>	7165	VT	VD	2	FSK8 (ALE)	Ui	UiMUX	125	1750	UNID 580 AND 630 CALLED 722. 735 CALLED 450, 768
<b>MRASZ</b>	7197	VT	VD	2	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.
<b>MRASZ</b>	7200	VT	VD	2	FSK8 (ALE)	USA	UiMUX	125	1750	NEW INTRUDER UNID ARABIC LSB NET 1002 CALLED 1006, 3060, 2060, 3070.
<b>MRASZ</b>	7200	VT	VD	2	FSK8 (ALE)	Ui	UiMUX	125	1750	NEW INTRUDER UNID ARABIC LSB NET 1002 CALLED 1006, 3060, 2060, 3070.
<b>MRASZ</b>	7200	VT	VD	2	FSK8 (ALE)	USA	UiMUX	125	1750	US MILITARY AVIATION BRIGADE IN IRAQ. CALLSIGNS: T66CAV, T10CAB, T1Z10, T3Z10, P2Z10, R26266, R26270, R05464, T1Z10, T3Z10, R26268, R26275, R26458, R00083, R26474.....

**OEVSV – Austria – OE3DMA (Alex) ---**

## REP – Portugal – CT4AN (Jose Francisco)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REP	3500.00	08.54	05	02			J3E-U			Fishermen activity – Portuguese / Spanish
REP	3510.00	19.35	22	02	MRC		J3E-U			Morocco's fishermen
REP	3520.00	11.11	15	02	POR		J3E-U			Portuguese fishermen, boat-to-family in land
REP	3523.00	18.22	03	02			J3E-U			Phone patching, Arab language
REP	3525.00	08.30	03	02	F		J3E-U			French lang talks, 2 persons
REP	3535.00	07.59	16	02			J3E-U			Maghreb voices. Fishermen ?
REP	3550.00	09.00	02	02	F		A3E-AM			French Amateurs, DLY <b>INFRINGE IARU BAND PLAN</b>
REP	3550.00	19.25	03	02			J3E-U			Morocco's fishermen
REP	3550.00	06.29	07	02	F		A3E-AM			French Amateurs, DLY <b>INFRINGE IARU BAND PLAN</b> 50uV S9
REP	3553.00	02.58	16	02			F3E			FM high level noise. Jamming ? 50uV S9
REP	3555.32	08.26	10	02	MRC		J3E-U			Marroco's fishermen, boat-to-boat
REP	3555.45	19.01	09	02			J3E-U			Maghreb voices (3)
REP	3560.00	22.40	22	02	KRE		8k00 A3EGN			Radio Korea – Spanish Program
REP	3575.00	09.31	08	02	F		A3E-AM			French Amateurs, DLY <b>INFRINGE IARU BAND PLAN</b>
REP	3577.11	23.41	11	02	I	IZ3DVW	A1A			<b>BEACON OUT OF IARU BAND RECOMMENDATIONS, DLY</b>
REP	3584.53	19.41	22	02			J3E-U			Scrambled voice +/- 300Hz wide
REP	3590.00	08.36	24	02	E		J3E-U			Spanish fishermen, boat-to-boat
REP	3590.00	08.58	02	02	E		J3E-U			Spanish fishermen, boat to family
REP	3593.70	22.49	05	02	UKR	D	A1A			Marker "D"
REP	3756.00	02.55	16	02			A2A			1 bps marker 25uV S8
REP	3764.00	08.20	03	02			F1B		250	Just 2 Tones shifted 10 sec rate
REP	3781.00	08.23	03	02			F1B	55	250	
REP	3782.43	08.59	05	02			F1B	60	250	
REP	3782.43	09.59	09	02		FTBO	F1B	60	250	Continuous pooling msg.
REP	7001.00	02.08	09	02	E		J3E-U			Talks in Spanish. "Roger, Roger", "Carlos", "Mario" 1.6uV S3-S5
REP	7014.00	02.32	11	02			FSK8	75	1750	12.5uV S7
REP	7018.00	02.17	11	02	RUS	RE4	F1B	50	1000	Air Force 50uV S9
REP	7030.00	02.24	11	02			F1B	50	250	12.5uV S7
REP	7038.60	06.35	07	02	RUS	S	A1A			MURMANSK Beacon, ADY, DLY 12.5uV S7
REP	7038.70	06.33	07	02	UKR	D	A1A			SEVASTOPOL Beacon, ADY, DLY 12.5uV S7
REP	7038.70	23.52	28	02	UKR	D	A1A			SEVASTOPOL Beacon, ADY, DLY 1.6uV S4
REP	7039.00	06.38	07	02	RUS	C	A1A			MOSCOW Beacon, ADY, DLY 12.5uV S7
REP	7039.00	23.49	28	02	RUS	C	A1A			MOSCOW Beacon, ADY, DLY 25uV S8
REP	7039.10	02.47	11	02	RUS	A	A1A			ASTRAKHAN Beacon, ADY, DLY 90uV S9+5dB
REP	7039.79	18.53	20	02	I	IZ3DVW	A1A			<b>BEACON OUT OF IARU BAND RECOMMENDATIONS, DLY</b>
REP	10101.25	10.23	09	02			J3E-U			Spanish male voice
REP	10137.37	14.22	13	02			A1A			400Hz modulated (ambulance like) Jamming ?
REP	10138.57	15.25	07	02			CW			Continuous Wave Carrier
REP	10141.00	15.26	07	02			J3E-U			Arab talks by several persons

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

SRAL – Finland – OH2BLU (Pekka)

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	REMARKS
SRAL	3658,0	1440-2100	dly	2	UZB	V	A1A		Khiva (?)
SRAL	7018,0	1100-2000	dly	2	RUS	REA4	F1B	1000/775	Seldom 250 Hz msg, at H+40 MR (F1A) 5F
SRAL	7030,0	0600-0900	*	2		UiPTR	F1B	250	Days 10, 12 & 26
SRAL	7038,7	h24	1-20	2	UKR	D	A1A		Sevastopol
SRAL	7038,8	0630-1400	1-12	2	RUS	P	A1A		Kaliningrad
SRAL	7038,9	h24	dly	2	RUS	S	A1A		Severomorsk/Murmansk
SRAL	7039,0	h24	dly	2	RUS	C	A1A		Moscow
SRAL	7039,1	h24	dly	2	RUS	A	A1A		Astrakhan area (?)
SRAL	7044,0	1400-1700	5, 13	2	RUS	REA4	A1A		Dotter 25 Hz
SRAL	7050,0	0830-1430	*	2	RUS	WEGI	A1A		MR 5BL, days 8, 13, 15, 16 & 25
SRAL	7051,0	1050-1120	24	2	RUS	UiMUX	J7D		AT3004D
SRAL	7054,0	2000-0600	*	2	RUS	UiPTR	F1B	200	Dotter 25 Hz, days 4, 8, 9, 11 & 18
SRAL	7060,0	0615-	3	2	RUS	RMW32	A1A		Calls RMW48
SRAL	7070,0	0600-	13	2		UiCarr	N0N		
SRAL	7089,0	0900-1300	4	2	RUS	UiMUX	J7D		AT3004D
SRAL	7089,9	1300-1400	1	2	UKR	UiFAX	F1C		Sevastopol
SRAL	7098,0	0800-1100	1, 10	2	RUS	UiPTR	F1B	250	Moscow
SRAL	7118,0	0930-1300	2, 27	2	RUS	UiMUX	J7D		Kaliningrad
SRAL	7129,0	0800-1000	21	2		UiMUX	J7D		
SRAL	7130,0	0800	12	2		UiPTR	F1B	1000	
SRAL	7142,0	0800-1300	*	2	RUS	UiPTR	F1B	250	Sankt-Peterburg, days 5, 18 & 21
SRAL	7144,0	1400-1500	5	2	RUS	UiMUX	J7D		AT3004D, Moscow
SRAL	7153,0	1430-1530	2	2		UiPTR	F1B	200	
SRAL	7162,0	0930-1430	9, 25	2		UiPTR	F1B	250	
SRAL	7167,0	0930-1130	11, 27	2	RUS	UiPTR	F1B	250	Novgorod
SRAL	7176,0	0930-1000	27	2		UiPTR	F1B	250	
SRAL	7186,0	0800-	15	2		UiMUX	J7D		AT3004D
SRAL	7188,0	0800-1200	*	2		UiPRT	F1B	250	Days 3, 7, 9, 13, 17, 19 & 23, Moscow
SRAL	7196,0	0830-1430	*	2		UiPTR	F1B	225/250	37,5 Hz dotter. Days 1, 4, 11 & 25, Kaliningrad
SRAL	7198,0	0700-0800	3, 25	2		UiMUX	J7D		
SRAL	10140,0	1200-1700	1, 2, 13	2	CYP	UiOTHR	P0N		40 kHz wide
SRAL	14084,0	0815-0900	13	2	RUS	UiPTR	F1B	250	Moscow
SRAL	14086,0	0720	13	2		UiMUX	J7D		AT3004D
SRAL	14268,0	0650-0800	2, 5	2		UiPTR	F1B	250	
SRAL	14272,0	0915	3	2		UiPTR	F1B	500	Dotter -> msg

## USKA – Switzerland – HB9CET (Peter)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
USKA	7000.0	1709	06	02			A3			very weak BC, unid often
USKA	7000.0	2046	13	02			FSK8	125	1750	MIL 188-141A, ALE daily
USKA	7000.0	1417	27	02			J3E u			unid language
USKA	7000.3	0958	18	02			N0N			permanent carrier, over days
USKA	7008.0	0753	10	02			F1B	75	250	unid
USKA	7008.0	1053	18	02			F1B	100	250	sometimes short in CW: "qrv? k"
USKA	7010.0	0938	11	02			FSK8	125	1750	MIL 188-141A, ALE daily
USKA	7018.0	1321	02	02	RUS	REA4	F1B	50	1000	
USKA	7018.0	2017	02	02			F1B	54.3	200	unid
USKA	7018.0	1658	06	02			F1B	50	785	unid (REA4 new shift?)
USKA	7018.0	1254	07	02			F1B	50	785	unid
USKA	7018.0	2231	15	02			F1B	50	785	unid; REA4 with reduced shift?
USKA	7017.9	1702	06	02			N0N			constant carrier
USKA	7017.9	1254	07	02			N0N			constant carrier
USKA	7021.5	1253	17	02			J7D	12x120		MPSK-12: CIS 12 = AT3004D
USKA	7030.0	0749	10	02			F1B	75	250	unid often
USKA	7032.0	1304	17	02			J7D	12x120		MPSK-12: CIS 12 = AT3004D
USKA	7039.0	0925	02	02	RUS	C	A1A			Beacon C Moscow daily
USKA	7039.1	1319	02	02	RUS	A	A1A			Beacon A daily
USKA	7039.3	0841	23	02	RUS	K	A1A			Beacon K Petropavlovsk
USKA	7044.0	2003	02	02	RUS	REA4	A1A			fast Dots only, daily
USKA	7038.7	0924	02	02	UKR	D	A1A			Beacon D Sevastopol daily
USKA	7038.8	0924	02	02	RUS	P	A1A			Beacon P Kaliningrad daily
USKA	7038.9	0925	02	02	RUS	S	A1A			Beacon S Murmansk daily
USKA	7054.0	2007	02	02			F1B	50	200	unid daily
USKA	7081.5	1142	17	02			PSK			Link11 (over hours)
USKA	7092.0	1645	12	02		2010	FSK8	125	1750	MIL 188-141A, ALE To 201 - This is 2010
USKA	7088.5	2107	13	02			N0N			constant carrier
USKA	7090.5	2058	13	02			J7D	12x120		MPSK-12: CIS 12 = AT3004D 12 x PSK-2
USKA	7089.9	1354	06	02		UKR	F1C	60 rpm		IOC 576 Wetterfax almost daily
USKA	7098.0	0746	10	02			F1B	75	250	unid
USKA	7096.8	1621	10	02		105	FSK8	125	1750	MIL 188-141A, ALE To 101 - This is 105
USKA	7102.5	1009	15	02			J7D	12x120		MPSK-12: CIS 12 = AT3004D 12 x PSK-2
USKA	7118.0	1316	02	02			J7D	12x120		MPSK-12: CIS 12 = AT3004D 12 x PSK-2
USKA	7124.0	1312	10	02			J7D	12x120		MPSK-12: CIS 12 = AT3004D 12 x 120 Bd PSK-4
USKA	7142.0	0937	18	02			F1B	75	250	unid
USKA	7188.0	0951	03	02			F1B	81	250	CIS-81 - unid Printer
USKA	7194.9	0954	18	02			F1B	40.5	400	unid (81-81 1ch)
USKA	14014.0	1750	28	02	SAm	names	USB			South America
USKA	14143.0	0919	02	02			J7D	12x120		MPSK-12: CIS 12 = AT3004D 12 x PSK-2 often

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

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	DETAILS
VERON	3514,9	17.58	24	2	F	UiILL	J3E-u		French voices (fishery?)
VERON	3528,0	15.39	19	2		UiMUX	G7D		MPSK-8, 2k2 wide
VERON	3554,0	17.57	24	2	TUR	UiMUX	G7D		STANAG, MPSK-8, 2k4 wide
VERON	3561,0	18.25	16	2	CIS	UiCW	A1A		5BL (ending 863 k)
VERON	3567,0	15.35	19	2		UiMUX	G7D		MPSK-12, 2k8 wide
VERON	3572,0	18.00	17	2	CIS	YV1P	A1A		Calls/Proc's (to 6P4Y)
VERON	3577,0	18.24	16	2	CIS	AZEI	A1A		Calls (to: CUF7, DUSG)
VERON	3586,0	17.53	24	2		UiMUX	G7D		MPSK-8, 2k6 wide
VERON	3594,5	15.31	19	2		UiMUX	G7B		Frequency Hopper
VERON	3653,0	17.50	24	2		UiPtr	A1A		Dotter

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	DETAILS
VERON	3716,0	17.46	24	2		UiMUX	G7D		MPSK-12, 2k8 wide
VERON	3732,0	vt	vd	2		UiMUX	G7D		MPSK-8, 2k2 wide
VERON	3735,0	17.42	24	2		UiPtr	F1B	500	Printer, idling
VERON	3756,0	17.40	24	2	UKR		A3E		"The Pip"
VERON	3782,0	22.09	21	2	POR	CTP	F1B	850	Printer
VERON	7018,0	vt	vd	2	RUS	REA4	F1B	1000	Printer
VERON	7018,0	vt	vd	2	RUS	UiPTR	F1B		Revs
VERON	7018,0	vt	vd	2	RUS	REA4	F1A		H+40 5F (followed by Revs)
VERON	7038,7	vt	vd	2	UKR	D	A1A		Beacon Sevastopol
VERON	7038,7	vt	vd	2	UKR	D	A1A		D-beacon
VERON	7038,8	15.23	23	2	RUS	S	A1A		Beacon Murmansk
VERON	7038,8	vt	vd	2	RUS	P	A1A		P-beacon
VERON	7038,9	vt	vd	2	RUS	C	A1A		Beacon Moscow
VERON	7038,9	vt	vd	2	RUS	S	A1A		S-beacon
VERON	7039,0	vt	vd	2	RUS	C	A1A		C-beacon
VERON	7039,1	vt	vd	2	RUS	A	A1A		Beacon Astrakhan
VERON	7039,1	vt	vd	2	AZB	A	A1A		A-beacon
VERON	7039,4	21.26	24	2	RUS	M	A1A		Beacon Magadan
VERON	7041,9	15.25	23	2		UiCAR	NON		Strong persistent carrier
VERON	7044,0	15.22	23	2	RUS	REA4	A1A		Dotter
VERON	7054,0	vt	vd	2	RUS	UiPtr	F1B	200	Printer, idling
VERON	10112,0	vt	vd	2	TUR	UiMUX	G7D		STANAG-4285, MPSK-8, 2k8 wide
VERON	14002,0	15.10	18	2		UiFAX			Facsimile
VERON	14021,0	14.44	18	2		UiMUX	G7B		Frequency Hopper
VERON	14052,0	14.42	20	2		UiMUX	G7B		Frequency Hopper
VERON	14084,0	09.34	13	2		UiPTR	F1B		Ptr
VERON	14092,0	09.08	11	2	RUS	RGT77	A1A		5BL
VERON	14152,0	14.55	23	2		UiPtr	F1B	100	Printer
VERON	14213,0	15.00	23	2		UiPtr	F1B	100	Printer (harmonic of 14152,0 ?)
VERON	14235,0	15.18	27	2		UiMUX	G7D		MPSK-12
VERON	14249,0	12.42	10	2		UiPTR	F1B		Sitor/a ARQ625
VERON	14274,0	15.06	23	2		UiPtr	F1B	100	Printer (harmonic of 14152,0 ?)
VERON	18085,0	15.10	12	2		UiPTR	F1B		Idling
VERON	18092,1	14.49	23	2		UiPtr	F1B	100	Printer
VERON	21225,0	14.27	18	2		UiMUX	G7B		Frequency Hopper
VERON	21237,5	14.45	23	2		UiMUX	G7B		Frequency Hopper
VERON	21267,0	14.38	20	2		UiMUX	G7B		Frequency Hopper
VERON	24902,5	vt	vd	2		UiCAR	NON		Strong persistent carrier
VERON	24963,6	14.24	18	2		UiCAR	NON		Strong persistent carrier
VERON	28045,6	14.12	18	2		UiCAR	NON		Strong persistent carrier
VERON	28262,0	vt	vd	2		UiMUX			MPSK-8
VERON	28313,9	vt	vd	2		UiCAR	NON		Strong persistent carrier
VERON	28324,0	14.25	20	2		UiMUX			MPSK-8

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

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	DETAILS
VERON	3520,0	19.37	9	2		UiMUX	J7D		12 MPSK
VERON	3522,0	22.06	25	2		UiPtr	F1B	250	Ptr
VERON	3553,0	22.07	25	2		UiMUX	G7B		Stanag 4285 8PSK
VERON	3554,0	19.38	9	2		UiMUX	G7B		frequency hopper
VERON	3610,0	19.46	4	2		UiPtr	F1B	1000	Ptr
VERON	3611,0	19.53	23	2		"Pip"	A3E		marker
VERON	3631,0	19.45	4	2		UiPtr	F1B	250	Ptr
VERON	3707,0	20.42	10	2		UiMUX			radar noise
VERON	3732,0	22.13	25	2		UiMUX	G7B		frequency hopper
VERON	3735,0	19.56	23	2		UiPtr	F1B	500	Revs
VERON	3750,0	19.48	9	2		UiPtr	F1B	500	Ptr
VERON	3755,0	19.57	vd	2		"Pip"	A3E		marker, 2 days, 22.15 utc
VERON	3767,0	19.28	4	2		UiMUX	J7D		12 MPSK
VERON	3782,0	vt	vd	2	POR	CTP	F1B	850	Ptr, Navy Lisboa
VERON	3792,0	19.17	4	2		UiPtr	F1B	1500	Ptr

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	DETAILS
VERON	7000,0	vt	vd	2		UiCAR	NON		carrier
VERON	7000,0	16.42	27	2		UiCAR	NON		carrier
VERON	7005,0	11.04	9	2		UiPtr	F1B	250	Ptr
VERON	7018,0	11.00	vd	2	RUS	REA4	F1B	1000	21.58 utc, 10 days, Revs, harmful
VERON	7018,0	19.10	4	2	RUS	UiPtr	F1B	400	Revs, also 3/2 11.00 utc
VERON	7036,3	07.57	vd	2		UiMUX			21.00 utc, 4 days, 3 KHz wide
VERON	7036,9	16.56	11	2		UiMUX			3 KHz wide, also 11/2 20.40 utc
VERON	7038,0	19.30	9	2		UiPtr	F1B	400	Ptr
VERON	7038,7	07.42	vd	2	UKR	D	A1A		20.37 utc, 10 days, beacon Sevastopol
VERON	7038,8	07.42	vd	2	RUS	P	A1A		20.37 utc, 3 days, beacon
VERON	7038,9	07.42	vd	2	RUS	C	A1A		20.12 utc, 14 days, beacon Moscow
VERON	7038,9	07.42	vd	2	RUS	S	A1A		19.45 utc, 14 days, beacon Murmansk
VERON	7039,0	11.25	25	2		UiPtr	F1B	200	Ptr
VERON	7039,1	07.42	vd	2	AZB	A	A1A		20.37 utc, 18 days, beacon nr Baku
VERON	7039,2	08.00	vd	2	RUS	K	A1A		20.56 utc, 3 days, beacon Kamchatka
VERON	7044,0	15.50	20	2	RUS	REA4	A1B		dotter
VERON	7044,0	19.49	23	2	RUS	UiPtr	F1B	200	Revs
VERON	7050,0	08.41	4	2	RUS	RGT77	A1A		RGT77 803=(5BL)=K parallel 14092 KHz
VERON	7050,0	07.30	21	2	RUS	RGT77	A1A		RGT77 941=(5BL)= K parallel 14092 KHz
VERON	7054,0	17.00	vd	2	RUS	UiPtr	F1B	250	21.36 utc, 5 days, Revs-Ptr
VERON	7162,0	10.59	9	2		UiPtr	F1B	250	Ptr, also 25/2 11.27 utc
VERON	10103,0	16.34	27	2		UiCAR	NON		carrier
VERON	14024,0	12.08	1	2	RUS	R1W	A1A		Z-codes, strings of cyrillic letters
VERON	14092,0	08.41	4	2	RUS	RGT77	A1A		RGT77 803=(5BL)=K parallel 7050 KHz
VERON	14092,0	07.30	21	2	RUS	RGT77	A1A		RGT77 941=(5BL)= K parallel 7050 KHz
VERON	14116,0	08.46	4	2	CIS	UiPtr	F1B	250	Ptr, fast revs
VERON	14116,0	08.57	4	2	CIS	UiPtr	F1A	250	QRJ? K / SK
VERON	14142,0	10.02	2	2	RUS	UiMUX	J7D		12 MPSK
VERON	14240,0	10.57	3	2	RUS	UiMUX	J7D		12 MPSK
VERON	14300,0	10.15	11	2		UiMUX	J7D		12 MPSK
VERON	21333,0	10.09	14	2	E	UiILL	J3E-1		Spanish fishery, male voices

# IARUMS Region 1

Many thanks for your interest!

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