



# Monitoring System

## - IARUMS Region 1 -

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The monthly newsletter for Region 1

# September 2008

The members of the IARUMS Region 1 monitoring team:



## Acknowledgements

++ ARSK: 5Z4NU - Ted ++ DARC: DJ9KR - Uli ++ IRTS: EI4GXB - Ger ++ MRASZ: HA7PL - Laci ++  
++ OEVS: OE3DMA – Alex ++ RAL: OD5RI – Riri ++ REP: CT4AN – Jose and CT1JTQ – Angelo ++  
++ RSGB: G4BOH - Chris ++ SARL: ZS6AKV - Hans ++ SRAL: OH2BLU - Pekka ++  
++ USKA: HB9CET - Peter ++ VERON: PA0GRU - Dick ++ G3VZV – Graham (satellite intrusions) ++  
++ TG9AJR – Juan (Co-ordinator Region 2) ++ VU2UR - Arasu (Co-ordinator Region 3) ++  
++ DF5UG - Hans (EC-IARU-R1 ) ++ DF8FE – Martin (Webmaster assistance) ++ DL8AAM – Tom (ALE) ++  
++ 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. UNIFIL MTF net left 14055 kHz - USB

UNIFIL = United Nations Interim Force in Lebanon – MTF = Maritime Task Force

The UNIFIL MTF ships and the Lebanese Navy left 14055 kHz. DJ9KR contacted the German Navy HQ several times, and OD5TE (Hani) talked to the Lebanese Ministry of Defense.

**Thank you for your activities and help:**

DJ9KR, Uli Bihlmayer – DARC Intruder Watch, RAL President Hani Raad OD5TE, RAL Intruder Watch Coordinator Rizkallah Azraq OD5RI, Bundesnetzagentur Funkkontrollmessstelle Konstanz, Colonel Lt. Dresbach and Frigate Captain Vogler-Wander from the Center of the German Forces in Schwielowsee.

### 2. 14005 kHz – SOH and Hainan jammer still active in September

Sound of Hope (BC from Taiwan) and the Chinese jammer were daily audible on 14005 kHz, not regarding the numerous complaints!

### 3. 14000 kHz – Fishery voice traffic from Sri Lanka

Fishery traffic in USB and LSB was daily observed on 14000, 14001.1, 14001.7, 14032.1, 14057.1, 14101 kHz, 18085, 21002.1. 4S7VK (Victor) was informed by DJ9KR.

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

Our homepage has been updated (as usual). Please read “Successful Actions” or “Erfolgreiche Aktionen” (German info). Soundfiles, Image Gallery and other folders were also updated. On the left side I stored a new link to the ITU-Server. There you can get the latest **ITU Shortwave Monitoring Reports** as PDF-files.

### 4. CT4AN – Jose Francisco de Almeida – now REP MS-Coordinator

CT4AN, Jose Francisco, is the new MS-Coordinator of the Portuguese Radio Club REP. Jose is welcomed to our increasing family with pleasure. Now we have 12 members in our Region 1 Monitoring Team!



CT4AN, Jose Francisco, in his shack. He has an excellent equipment and many valuable experiences.  
CT1JTQ, Angelo, is his Vice Coordinator.

5. 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 \*\*\* MOPO = Ministry of Public Order \*\*\* IARUMS = IARU Monitoring System

### ARSK MONITORING REPORT FOR SEPTEMBER, 2008

Propagation continued poor but may be improving slightly.

UNIFIL and Lebanese Navy intruders using USB on 14055 KHz for shipping control in the eastern Mediterranean area of Beirut have shut down after intervention by local Amateurs.

The Somali station at Garissa appears still to be operating. Elsewhere the situation was as usual.

This report is sent out early because I shall be fully committed at the Nairobi International Trade Show for the next week

My thanks for input to this report.

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	9	ETH?	UiPHONE	J3E	Amharic. Spreads into 40 m. band.
ARSK	6999.0	vt	dly	9	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	*	9	SOM	Boccaro, Bossasso	J3E	Somalis. *12,
ARSK	7005.0	0943	27	9	SOM	UiPHONE	J3Eu	Somalis.
ARSK	7008.0	vt	dly	9	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	7011.0	vt	dly	9	SOM	UiPHONE	J3Eu	Somalis.
ARSK	7012.0	vt	dly	9	SOM	Kismayu, Afmadu, Dobleh, Baidoa?	J3Eu	Somalis, SelCal. Some KiSwahili.
ARSK	7017.0	vt	*	9	SOM	Dobleh	J3Eu	Somalis.*20,25,27,
ARSK	7019.0	vt	*	9	SOM	UiPHONE	J3Eu	Somalis. *5,
ARSK	7022.0	0850	20	9	SOM	UiPHONE	J3Eu	Somalis.
ARSK	7025.0	vt	*	9	SOM	UiPHONE	J3Eu	Somalis.Phonepatching. *5,
ARSK	7027.0	1224	5	9	ZAI	UiPHONE	J3Eu	French, vernacular. Selcal.
ARSK	7028.0	0757	13	9	SOM	UiPHONE	J3Eu	Somalis.
ARSK	7030.0	0942	27	9	SOM	UiPHONE	J3E	Somalis.
ARSK	7031.0	vt	*	9	SOM	Baidoa	J3Eu	Somalis. *15,27,
ARSK	7040.0	vt	*	9	ETH	UiPHONE	J3E	Amharic.*13,
ARSK	7045.0	vt	dly	9	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	9	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	7050.0	1226	5	9	SDN?	AW,	J3E	English. NGO?
ARSK	7061.0	vt	*	9	SOM	UiPHONE	J3E	Somalis. *20,

H'd by	kHz	UTC	dd	mm	ITU	Identity	Mode	Details
ARSK	7065.0	0625	15	9	SOM	UiPHONE	J3Eu	Somalis.
ARSK	7066.0	vt	dly	9	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	7066.0	vt	*	9	SOM	UiPHONE	J3Eu	Somalis. *13,27,
ARSK	7069.0	0849 0533	20 25	9	SOM KEN	UiPHONE Garissa	J3Eu	Somalis. Garissa heard answering.
ARSK	7070.0	vt	dly	9	SOM ERI	Asmara, Afmadu, Dobleh, Baidoa, Merere, Garoe, Burhane, Mogadishu, Kismayu, Beletwein	J3Eu	Somalis. SelCal.
ARSK	7075.0	0923	20	9	SOM	UiPHONE	J3Eu	Somalis.
ARSK	7075.0	vt	*	9	ZAI	UiPHONE	J3Eu	French, KiSwahili, vernacular. *5,13,20,25,
ARSK	7077.0	0921	27	9	SOM	UiPHONE	J3E	Somalis.
ARSK	7080.0	0920	27	9	SOM	UiPHONE	J3E	Somalis.
ARSK	7080.0	1050	14	9	ZAI	UiPHONE	J3Eu	French.
ARSK	7081.0	1049	14	9	SOM	UiPHONE	J3Eu	Somalis.
ARSK	7084.0	0917	20	9	SOM	UiPHONE	J3Eu	Somalis.
ARSK	7085.0	vt	*	9	SOM	UiPHONE	J3Eu	Somalis. *25,
ARSK	7092.0	0623	*	9	SOM	UiPHONE	J3Eu	Somalis.*15,
ARSK	7100.0	vt	dly	9	ERI	VOBM	A3E	Voice of the Broad Masses, Eritrea,
ARSK	14055.0	0755 0625 0705	1 4	9	LBN	UNIFIL, var. calls. TB4RC; MIO	J3Eu	UNIFIL, Lebanese Navy. Message traffic, east Mediterranean shipping control. Now ceased.

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

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	REMARKS
DARC	1852,0	2134	27	09	J3E-U	I	Palermo Radio	weather reports, is legal!
DARC	1876,0	2000	27	09	J3E-U	I	Lampedusa Radio	weather reports, is legal!
DARC	3500,0	0927	09	09	J3E-U	HOL	UiILL	Dutch fishery
DARC	3500,0	2115	18	09	J3E-U	I	UiILL	Italian pirates
DARC	3500,0	vt	vd	09	J3E-U	E	UiILL	Spanish fishery, heard 01 17 25 at 1920, 1847, 2002
DARC	3501,0	0927	10	09	J3E-U	N.Eu	UiILL	Scandinavian lanaguage
DARC	3501,0	1618	25	09	J3E-U	F	UiILL	French fishery
DARC	3510,0	1722	18	09	J3E-U	E	UiILL	Spanish fishery with vocoder CRY-2001
DARC	3515,0	1854	15	09	J3E-U	E	UiILL	Spanish fishey
DARC	3520,0	1930	22	09	J3E-U	I	UiILL	3 - 4 persons, Italian language
DARC	3520,0	1900	24	09	J3E-U	I	UiILL	3 - 4 persons, Italian language
DARC	3520,0	vt	vd	09	J3E-U	E	UiILL	Spanish fishery, heard 02 03 at 2004, 1717 - one OP is "José"
DARC	3525,0	1746	09	09	J3E-U	HOL	UiILL	Dutch fishery
DARC	3530,5	1756	21	09	J3E-U	RUS	UiILL	Russian vocoder system YAKHTA, unid
DARC	3535,0	0729	20	09	J3E-U	F	UiILL	French fishery
DARC	3536,0	0628	01	09	J3E-U	E	UiILL	Spanish fishery
DARC	3536,0	0645	23	09	J3E-U	E	UiILL	Spanish fishery
DARC	3540,0	1924	05	09	J3E-U	E	UiILL	Spanish fishery
DARC	3545,0	vt	vd	09	J3E-U	E	UiILL	Spanish fishery with vocoder CRY-2001 - heard 17 24 at 0902, 1732
DARC	3550,0	0713	02	09	A3E	F	French Lis Hams	no respect of IATU Band Plan: no AM in CW section
DARC	3550,0	0714	16	09	A3E	F	French Lis Hams	French ham net
DARC	3559,3	1830	17	09	J3E-U	F	UiILL	large net in French voice, fishery
DARC	3559,4	vt	vd	09	J3E-U	F	UiILL	French pirates, heard 01 - 18 (daily) at 0629 - 0647, 1750, 1920, 2008 - location: Nantes - 13 reports

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	REMARKS
DARC	3559,9	1853	01	09	J3E-U	F	UiILL	French fishery, location Nantes
DARC	3586,0	vt	vd	09	J3E-U	RUS	UiILL	male and female voices in Russian, heard 17 18 at 2157, 2122
DARC	3590,0	2001	05	09	J3E-U	F	UiILL	French pirates (fishery)
DARC	3595,0	vt	vd	09	J3E-U	UKR	UiILL	Ukrainian MIL
DARC	3600,0	vt	26	09	A3E	F	French Lis Hams	heard 1618 - 1644 - contradiction of IARU Band Plan. Stations heard: F5DQH, OP Michel - F5OBI, F1APJ
DARC	3600,0	vt	vd	09	A3E	F	French Lis Hams	using AM in CW section, heard 21 28 at 1626, 1548
DARC	3605,0	1245	22	09	J3E-U	E	UiILL	Spanish fishery
DARC	6998,9	2042	30	09	J3E-u		UiILL	male to female person, unid voice, USB into ham band
DARC	6999,0	1833	26	09	J3E-U	F	UiILL	French pirates
DARC	7000,0	0845	09	09	J3E-U	F	UiILL	French male person, engine noise
DARC	7000,0	1420	16	09	J3E-U	F.Ea	UiILL	Far East pirates
DARC	7000,0	1459	18	09	J3E-L		UiILL	male person singing, Indonesia?
DARC	7000,0	1524	19	09	J3E-U	INS	UiILL	2 male persons in Indonesia voice
DARC	7000,0	0847	26	09	J3E-U	F	UiILL	French male voices
DARC	7000,0	0909	27	09	J3E-U	E	SS1, SO	Spanish pirates
DARC	7002,0	1543	23	09	J3E-.U	E	UiILL	Spanish fishery
DARC	7010,0	0113	15	09	J3E-U		UiILL	2 male persons, often expression "Avarik" heard
DARC	7038,9	2138	30	09	J3E-U		UiILL	dialling tones with phone call, strong hum on signal
DARC	10101,0	0638	01	09	J3E-U	MRC	UiILL	Moroccan pirates, possibly fishery
DARC	10101,0	2125	19	09	J3E-U	E	UiILL	Spanish fishery
DARC	10101,0	vt	vd	09	J3E-U	MRC	UiILL	Moroccan fishery heard 14 - 25, daily 1356, 1632, 1730, 1826, 1920 - 12 reports
DARC	10105,0	1752	03	09	J3E-U	E	UiILL	Spanish fishery, also using CRY-2001 vocoder
DARC	10111,2	1654	07	09	J3E-U	E	UiILL	Spanish fishery
DARC	10116,0	1745	07	09	A3E?		UiILL	5F, male synthetic voice
DARC	14000,0	1656	04	09	J3E-U	F.Ea	UiILL	Far East pirates, fishey, engine noise
DARC	14000,0	1658	04	09	A3E	ISR	PCD	female synthetic voice, carrier and Upper Sideband
DARC	14000,0	1254	08	09	J3E-U	F.Ea	UiILL	pirate net
DARC	14000,0	1900	15	09	J3E-U	E	UiILL	Spanish fishery
DARC	14000,0	vt	vd	09	J3E-U	CLN	UiILL	fishery from Sri Lanka, heard 20 24 at 1338, 1341
DARC	14000,8	1111	29	09	J3E-L	CLN	UiILL	fishery from Sri Lanka, LSB used
DARC	14001,0	1353	07	09	J3E-L	CLN	UiILL	fishery from Sri Lanka, LSB used
DARC	14001,7	1300	27	09	J3E-U	CLN	UiILL	Sri Lankan fishery
DARC	14002,5	1417	06	09	J3E-U	CLN	UiILL	2 male persons, Sri Lankan fishery
DARC	14014,5	1958	02	09	J3E-U	E	UiILL	Spanish fishery, Diesel engine noise
DARC	14015,0	vt	20	09	J3E-U	E	UiILL	2 male persons in Spanish voice, heard 1032 - 1038
DARC	14018,0	2132	08	09	J3E-U	MRC	UiILL	Moroccan fishery
DARC	14032,1	vt	01	09	J3E-U	CLN	UiILL	2 male persons, Sri Lankan fishery - heard 1432 - 1436
DARC	14032,2	1309	06	09	J3E-U	CLN	UiILL	2 male persons, Sri Lankan fishery
DARC	14053,4	vt	12	09	J3E-U	M.Ea / LBN	UNIFIL Net MIO, C1	reporting to C1 "friendly 0001WF in position 010BB12 course 30087 noted time 1945 - how copied - over" and other reports - heard 1645 - 1730
DARC	14055,0	1217	01	09	J3E-U	LBN / M.Ea	UNIFIL Net MIO, C1	station C1 calling MIO
DARC	14055,0	vt	04	09	J3E-U	M.Ea / LBN / F	UNIFIL Net N1, N3, C1, MIO, fregate ACONIT	N1 calling MIO, N3 calling MIO, N1 calling P76, ACO and C1 in contact, exercise "Man-Over-Board", N1 becomes Mike-India-Oscar, N1 is French frigate "ACONIT" - traffic heard 0635 - 0806
DARC	14055,0	vt	10	09	J3E-U	LBN	UNIFIL	reporting vessel "APACHE-1", last port of

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	REMARKS	
						/ M.Ea	Net C1, MIO	call Beirut, next port of call Mersin, Turkey", position, speed - procedures, MIO has French accent, so possibly is French frigate ACONIT" (see 4 September 08) - - heard 0920 - 0922	
DARC	14055,0	vt	10	09	J3E-U	LBN / M.Ea	Charlie-1 MIO	both stations in contact, reporting "PEG, position Beirut"	
DARC	14055,0	vt	13	09	J3E-U	M.Ea / LBN / TUR	UNIFIL Net MIO frigate GÖKSU	"this is MIO - radio check", heard 1651 and 1739 - MIO is Turkish frigate GÖKSU, hull number F497	
DARC	14055,0	0822	15	09	J3E-U	LBN / M.Ea	UNIOFIL Net Charlie-1	"MIO, MIO - this is Charlie-One, radio check!" Several calls	
DARC	14055,0	vt	vd	09	J3E-U	LBN / M.Ea	UNIFIL Net C1, MIO	English traffic, LBN Navy and UNIFIL MTF, heard 04 10 11 12 13 15 at 0806, 1301, 0912, 0855, 1716, 0822	
DARC	14055,9	1124	08	09	J3E-U	CLN	UiILL	2 male persons, fishermen from Sri Lanka	
DARC	14057,0	vt	vd	09	J3E-U	CLN	UiILL	Sri Lankan fishery, heard 21 - 24 at 1413, 1356, 1430, 1345 - some people singing	
DARC	14057,8	vt	18	09	J3E-L		UiILL	unid voice, male persons	
DARC	14085,0	1021	02	09	J3E-U	F	UiILL	French male and female voices, mentioning "AK", "Eli" and "Maputa"	
DARC	14100,0	1124	20	09	J3E-U	POR	UiILL	Portuguese fishery	
DARC	14100,0	1416	21	09	J3E-U	INS	UiILL	Indonesian pirates	
DARC	14101,0	1252	19	09	J3E-L	CLN	UiILL	Sri Lankan fishery	
DARC	14103,0	1525	01	09	J3E-U	RUS	UiILL	2 male persons in Russian voice	
DARC	14260,0	vt	18	09	A3E-U		674	female synthetic voice, first "674" repeated several times, then 5F	

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

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	REMARKS AND OBSERVATIONS
DARC	1894,0	2012	27	09	PSK		UiPTR	100	100	BC-PSK, location Orkney Islands, is legal!
DARC	3500,0	1918	08	09	G7B		UiMUX	120		frequency hopper
DARC	3503,0	1740	08	09	J7D	RUS	UiMUX			MPSK-12, AT-3004-D, location Moscow
DARC	3510,0	1916	05	09	J7D	ROU	UiMUX	120		MPSK-12, AT-3004-D, location Northern Romania
DARC	3510,0	2152	15	09	G7B		UiMUX			frequency hopper
DARC	3515,0	1705	24	09	G7B		UiMUX			frequency hopper
DARC	3516,0	1645	13	09	G7B		UiMUX			frequency hopper
DARC	3517,0	1833	17	09	F1B	RUS	UiPTR	81	250	unid printer, location North of Moscow
DARC	3517,8	2012	04	09	G7D		UiMUX	2k4		STANAG-4285, 2k4, 8PSK
DARC	3517,8	1648	13	09	F1B		UiPTR	75	850	unid printer, STANAG-4481, ACF=64
DARC	3518,8	1701	20	09	G7B		UiMUX			LINK-11 SLEW, unid
DARC	3520,0	1836	22	09	P0N		Ocean Wave Radar			
DARC	3522,0	vt	vd	09	F1B	I	UiPTR	300	850	system CLANSMAN, heard daily all month 0833, 1505, 1730, 1822
DARC	3527,0	1900	01	09	F1B	RUS	UiPTR	50	200	idling, location North Russia
DARC	3527,0	2137	11	09	F1B	RUS	UiPTR	50	200	unid printer, location Kara-Sea, North Russia

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	REMARKS AND OBSERVATIONS
DARC	3529,0	2006	13	09	FSK8		UiMUX	125	1750	ALE, selcall RN, unid
DARC	3529,2	1911	21	09	FSK8		UiMUX	125		THALES SKYMASTER, FSK8, 125 Bd, unid
DARC	3530,2	2011	29	09	J7D	HOL	UiMUX			LINK-11
DARC	3536,0	1644	24	09	J7D	LVA	UiMUX	120		MPSK-12, AT-3004-D, location Riga
DARC	3537,8	1543	09	09	J7D		UiMUX			Link-11, unid
DARC	3545,0	1927	04	09	J7D	RUS	UiMUX			MPS-12, AT-3004-D, location near Moscow
DARC	3546,0	2151	23	09	J7D BPSK	BLR	UiMUX	120		MPSK-12, AT-3004-D, location NW of Minsk
DARC	3546,0	1715	30	09	J7D	RUS	UiMUX			MPSK-12, AT-3004-D, location West Russia
DARC	3548,0	1831	25	09	F1B	BLR	UiPTR	50	200	unid printer, location N.Ea Belarus
DARC	3550,0	0713	02	09	A3E	F	French Lis Amat.			no BC, but French lis Amateurs - not respecting IARU Band Plan
DARC	3550,0	1954	05	09	J7D	RUS	UiMUX	120		MPSK-12, AT-304-D, location Murmansk
DARC	3552,0	1810	29	09	F1B		UiPTR	50	250	unid printer
DARC	3553,8	1830	01	09	G7D	TUR	UiMUX	2k4		STANAG-4285, 2k4, 8PSK, permanent
DARC	3555,0	1957	20	09	G7B		UiMUX			frequency hopper
DARC	3556,8	vt	vd	09	G7D	D	UiMUX	2k4		STANAG-4285, 2K4, 8PSK, 150 bps long, location "Husum"
DARC	3560,1	1959	01	09	A3E	KRE	Voice of Korea (North)			active daily
DARC	3560,1	2119	09	09	A3E	KRE	Radio Korea (North)			daily
DARC	3568,0	1942	25	09	F1B		UiPTR	75	850	unid printer
DARC	3570,0	1812	29	09	J7D	BLR	UiMUX	120		MPSK-12, AT-3004-D, location N.Ea of Minsk
DARC	3572,0	1840	01	09	QPSK	HOL	UiMUX	100	100	Dutch Radio Navigation
DARC	3575,0	1932	06	09	G7B		UiMUX			frequency hopper
DARC	3578,0	1940	18	09	J7D	BLR	UiMUX			MPSK-12, AT-3004-D, location North of Minsk
DARC	3578,0	1949	18	09	J7D	BLR	UiMUX	120		MPSK-12, AT-3004-D, location North of Minsk
DARC	3582,0	1542	29	09	J7D	BLR	UiMUX			MPSK-12, AT-3004-D, location East of Minsk
DARC	3586,6	vt	vd	09	OFDM	F	UiMUX	44.5		OFDM, 27 tones, 44,5 Bd, location South of France
DARC	3586,6	vt	vd	09	OFDM	F	UiMUX	44.5		OFDM, 27 tones, 44,5 Bd, location Orleans, South of France
DARC	3588,0	2125	01	09	J7D	RUS	UiMUX			MPSK-12, AT-3004-D, location Moscow
DARC	3590,0	vt	vd	09	A3E	F	Lis Amateur F50BI			Lis Amateur calling CQ in CW section of 80-m-band, heard 07 17 at 1912, 1951
DARC	3590,3	1648	24	09	G7B	CHN	UiMUX	75		PRC4+4, 8 x 75 Bd, QPSK
DARC	3593,8	1746	22	09	G7D	G	UiMUX	2k4		STANAG-4285, 2k4, 8PSK, 1200 bps-long, location Skelton, England
DARC	3594,5	2118	05	09	J7D	D	UiMUX	44.5		OFDM, 27 tones, 44,5 Bd, located near Czech border
DARC	3599,0	1955	25	09	F1B	RUS	UiPTR	50	200	unid printer, location St.

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	REMARKS AND OBSERVATIONS
										Petersburg
DARC	3600,0	vt	26	09	A3E	F	French Lis Amat.			heard 1618 - 1644, calls: F5DQH, Michel - F5OBI - F1APJ
DARC	3600,0	vt	vd	09	A3E	F	Lis French Amat.			using A3E in CW section - heard 21 28 at 1626, 1548
DARC	3608,0	2027	19	09	F1B		UiPTR			is active
DARC	3647,5	1833	02	09	A1A	F	UiCW			5 Letter Groups, encrypted messages, location near Rouen
DARC	3660,0	1830	25	09	G7D		UiMUX	2k4		STANAG-4285, 2k4, 8PSK, unid
DARC	3707,0	1704	22	09	F1B	BLR	UiPTR	75	250	unid printer, location N.Ea of Minsk
DARC	3735,0	vt	vd	09	F1B	UKR	UiPTR	43	500	idling, heard 16 25 at 1825
DARC	3750,0	1658	20	09	G7B		UiMUX			frequency hopper
DARC	3752,0	vt	vd	09	P0N	POL	Radar			radar noise, 50 pps, location North of Warsaw - heard 14 - 25 at 1356 - 1730
DARC	3756,0	1745	01	09	A3E	UKR	The Pip			10 tones, permanent
DARC	3767,0	1915	15	09	J7D	RUS	UiMUX	120		MPSK-12, AT-3004-D, location is Kaliningrad
DARC	3767,0	1933	24	09	J7D	RUS	UiMUX			MPSK-12, AT-3004-D, location Kaliningrad
DARC	3782,0	1934	04	09	F1B	POR	CTP	75	850	Port. Navy Lisbon HQ, is allowed!
DARC	7000,0	1020	02	09	G7B		UiMUX			frequency hopper
DARC	7000,0	1726	07	09	A3E		Radio Belarus			IM from 7105, Radio Belarus Minsk, daily
DARC	7000,0	0835	23	09	FSK8	SEN	UiMUX	125	1750	ALE, selcalls DKJ, ASD - French Forces in Dakar, Senegal
DARC	7000,0	1648	23	09	FSK8		UiMUX	125	1750	ALE, selcall 2011, unid, daily
DARC	7000,0	0800	25	09	J7D	RUS	UiMUX			MPSK-12, AT-3004-D, location Samara
DARC	7008,0	vt	vd	09	F1B	RUS	UiPTR	75	250	unid printer heard 12 17 at 0711, 0814 - location East of Moscow
DARC	7009,0	1945	02	09	A3E		UiBC			Ru px and music
DARC	7009,0	2008	09	09	A3E		UiBC			Ru px
DARC	7009,0	2042	30	09	A3E		UiBC			is active
DARC	7009,0	2042	30	09	A3E		UiBC			is audible
DARC	7010,0	1017	01	09	FSK8	MKD	UiMUX	125	1750	ALE, selcalls CS0, SC002A, RS006A - is MKD MIL, daily
DARC	7013,0	1225	01	09	J7D	RUS	UiMUX			MPSK-12, AT-3004-D
DARC	7015,0	0728	19	09	G7B		UiMUX			frequency hopper
DARC	7015,0	0728	19	09	G7B		UiMUX			frequency hopper
DARC	7016,0	vt	vd	09	F1B	CHN	UiPTR	75	250	unid printer heard 12 19 at 0712, 0729 - location West of Beijing
DARC	7018,0	0804	17	09	F1B	UKR	UiPTR	81	500	unid printer
DARC	7022,0	2150	18	09	J7D	BLR	UiMUX			MPSK-12, AT-3004-D, location Moscow
DARC	7022,0	2150	18	09	J7D	RUS	UiMUX	120		MPSK-12, AT-3004-D, location Moscow
DARC	7026,0	0530	23	09	FSK8		UiMUX	125	1750	ALE, selcalls FIG, HUN
DARC	7026,0	1838	25	09	J7D	RUS	UiMUX			MPSK-12, AT-3004-D, location Area of Moscow
DARC	7030,0	1659	23	09	F1B	RUS	UiPTR	75	235	unid printer, location



CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	REMARKS AND OBSERVATIONS
										Kazan - 2 corresponding systems!
DARC	7038,7	ady	dly	09	A1A	UKR	beacon D			Sevastopol - Ukraine
DARC	7038,8	ady	dly	09	A1A	RUS	beacon P			Kaliningrad - Russia
DARC	7038,9	ady	dly	09	A1A	RUS	beacon S			Murmansk - Russia
DARC	7039,0	ady	dly	09	A1A	RUS	beacon C			Moscow - Russia
DARC	7039,4	ady	dly	09	A1A	RUS	beacon M			Magadan - Russia
DARC	7044,0	1441	18	09	F1B		UiPTR			unid printer
DARC	7053,0	1850	04	09	G7B		UiMUX			frequency hopper
DARC	7054,0	vt	vd	09	F1B	RUS	UiPTR	50	250	very active and harmful station, located Novgorod, heard 01 - 30 at 1800 - 2130
DARC	7054,0	vt	vd	09	F1B	RUS	Nishniy Novgorod	50	200	printer heard all month 0557 - 0633, 1822 - 1849
DARC	7076,0	vt	vd	09	F1B	RUS	UiPTR	75	250	unid printer heard 10 12 24 at 0637, 0713, 1230 - location Kazan
DARC	7080,0	0639	20	09	F1B		UiPTR			is active
DARC	7088,0	1954	01	09	A3E	BLR	Radio Belarus			splatters from 7105
DARC	7089,5	0919	23	09	J7D	SMN	UiMUX			LINK-11, KFOR, Serbia
DARC	7090,0	vt	vd	08	A3E	BLR	Radio Belarus			splatters of Radio Belarus on 7105 down till 7090
DARC	7090,5	1818	26	09	J7D	S	UiMUX	120		MPSK-12, AT-3004-D, location Stockholm
DARC	7092,0	1929	17	08	A3E	BLR	Radio Belarus			splatters from 7105
DARC	7093,0	1017	02	09	A3E		UiBC			splatters from 7110 - reported to KON
DARC	7095,0	0905	04	09	G7B		UiMUX			frequency hopper
DARC	7100,0	2030	05	08	A3E		UiBC			is active
DARC	7100,0	vt	08	08	A3E	KOR	Radio Korea (North)			French px (1831); typical mx (1931)
DARC	7100,0	2030	19	09	A3E		UiBC			is active
DARC	7100,0	2003	26	08	A3E	KOR	Voice of Korea (North)			is audible, // 3560
DARC	7100,0	vt	vd	08	A3E	ERI	Voice of the Broad Masses			Af tribal music daily 1549 - 1729
DARC	7102,0	1226	24	09	F1B	S	UiPTR	76	200	unid printer, location Sweden
DARC	7105,0	1453	18	09	JAM	CHN	Hainan Firedrake Jammer			is active
DARC	7117,0	1506	14	09	F1B		UiPTR	50	1000	unid printer, idling
DARC	7117,0	vt	vd	09	F1B	RUS	UiPTR	50	1000	unid printer, location Kazan
DARC	7122,0	0639	24	09	F1B	RUS	UiPTR	50	200	unid printer
DARC	7130,0	1508	01	09	JAM	CHN	Hainan Firedrake Jammer			is active every day all month, 1500 - 1700
DARC	7135,0	1639	14	09	JAM	CHN	Hainan Firedrake Jammer			jammer on Radio Bucharest, ROU
DARC	7162,0	1322	04	09	F1B	RUS	UiPTR	75	250	unid printer
DARC	7162,0	0938	23	09	F1B	RUS	UiPTR	75	250	unid printer
DARC	7162,0	vt	vd	09	F1B	RUS	UiPTR	75	250	unid printer heard 09, 30 at 0950, 0633
DARC	7176,0	0844	13	09	F1B	RUS	UiPTR	75	250	unid printer - location East Russia

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	REMARKS AND OBSERVATIONS
DARC	7185,0	1508	01	09	JAM	CHN	Hainan Firedrake Jammer			is active every day all month, 1500 - 1700
DARC	7186,0	0721	vt	09	G7B		UiMUX			frequency hopper heard 29 30 at 0721
DARC	7188,0	0742	09	09	F1B	RUS	UiPTR	81	250	unid printer, loaction Saratov
DARC	7188,0	0933	11	09	F1B	RUS	UiPTR	81	250	unid printer, location North of Kaliningrad
DARC	7188,0	vt	29	09	F1B	RUS	UiPTR	75	250	unid printer, location East of Moscow, heard 0635 - 0722
DARC	10105,0	1428	16	09	FSK8	unid	UiMUX	125	1750	ALE, selcall 911
DARC	10112,0	0650	01	09	G7D	TUR	UiMUX	2k4		STANAG-4285, 2k4, 8PSK, 600 bps long, permanent
DARC	10115,0	0805	25	09	F1B	RUS	UiPTR	50	200	unid printer, location North of Samara
DARC	10115,0	1746	28	09	P0N	G / CYP	Cyprus OTH- Radar			50-Hz-system
DARC	10116,0	1835	07	09	F1B		UiPTR	50	250	unid printer
DARC	10116,0	0445	18	09	P0N	G / CYP	British OTH- Radar			is active
DARC	10120,0	1833	07	09	A3E		UiBC			IM, unid
DARC	10120,0	1416	16	09	P0N	G / CYP	Cyprus OTH- Radar			is active, 50 Hz-system (= 50 pps)
DARC	10121,0	1305	02	09	F1B	RUS	UiPTR	75	250	unid printer, location west of Kazan
DARC	10121,0	0918	23	09	F1B	RUS	UiPTR	75	250	unid printer, location Samara
DARC	10121,0	0640	24	09	J7D	RUS	UiMUX	120		MPSK-12, AT-3004-D, location Moscow
DARC	10122,0	1311	04	09	F1B	SMN	UiPTR	50	500	Baudot encrypted, location Serbia and Montenegro
DARC	10123,0	0744	08	09	F1B	RUS	UiPTR	50	200	unid printer, location Murmansk
DARC	10127,0	1625	27	09	G7B		UiMUX			frequency hopper
DARC	10128,0	1726	14	09	F1B	RUS	UiPTR	50	250	unid printer, location Kazan
DARC	10129,0	0654	27	09	F1B	RUS	UiPTR	74	250	unid printer, location S.Ea of Moscow
DARC	10129,0	1432	30	09	J7D	RUS	UiMUX			MPSK-12, AT-3004-D, location Kazan
DARC	10130,0	vt	dly	09	A3E		UiBC			unid BC, IM product - heard 18 - 26 at 1737 - 1858
DARC	10131,0	1406	30	09	F1B	RUS	UiPTR	100	200	also using 75 Bd, location Workuta
DARC	10131,8	1611	01	09	FSK8	ARS	UiMUX	125	1750	ALE, selcalls NAL, NAN, RCL, RCN – Saudi Arabia
DARC	10132,8	1604	01	09	F1B	ARS	UiPTR	46	170	printer, permanent, daily
DARC	10133,0	1352	30	09	J7D	RUS	UiMUX			MPSK-12, AT-3004-D
DARC	10134,0	0841	13	09	G7B		UiMUX			frequency hopper
DARC	10145,0	1904	26	09	A3E		UiBC			unid BC, IM product
DARC	10146,1	1343	02	09	J7D	RUS	UiMUX	120		MPSK-12, AT-3004-D
DARC	14000,0	1149	01	09	FSK8	M.Ea	UiMUX	125	1750	ALE, selcalls WNG777, possibly US MIL
DARC	14000,0	1247	02	09	FSK8		UiMUX	125	1750	ALE, selcall LKG, beamed 100 degs. From DL, unid
DARC	14000,0	vt	16	09	N0N		UiCAR			long lasting carrier 0714 -

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	REMARKS AND OBSERVATIONS
										0735
DARC	14000,0	0817	17	09	N0N	M.E	UiCAR			long lasting carrier
DARC	14000,0	0646	24	09	N0N	RUS	UiCAR			multi carrier system, location West of Moscow
DARC	14000,0	0900	25	09	J7D		UiMUX	120		MPSK-12, AT-3004-D, is harmonic from 7000 kHz
DARC	14000,0	vt	vd	09	G7B		UiMUX			frequency hopper heard 02 07 at 1717, 1500
DARC	14002,0	0710	25	09	J7D	RUS	UiMUX			MPSK-12, AT-3004-D
DARC	14003,0	0730	27	09	F1B	RUS	UiPTR	75	250	unid printer, location Samara
DARC	14005,0	0555	11	09	J7D	RUS	UiMUX			MPSK-12, AT-3004-D, location Kazan
DARC	14005,0	0702	13	09	J7D	RUS	UiMUX	120		MPSK-12, AT-3004-D - location West Russia
DARC	14005,0	1935	22	09	G7B		UiMUX			frequency hopper
DARC	14005,0	0655	27	09	J7D	RUS	UiMUX			MPSK-12, AT--3004-D, location S.Ea of Moscow
DARC	14005,0	vt	dly	09	JAM	CHN	Hainan Firedrake Jammer			jammer heard 04 - 30 every day at 1500 - 1700, 27 reports
DARC	14005,0	vt	dly	09	A3E	TWN	Sound of Hope			BC heard 04 - 30 every day at 1500 - 1700, 27 reports
DARC	14006,0	vt	03	09	N0N		UiCAR			long lasting carrier 0900 - 1022
DARC	14006,0	0556	11	09	F1B	RUS	UiMUX	75	250	unid printer, location Kazan
DARC	14006,0	vt	vd	09	F1B	RUS	UiPTR	75	250	unid printer heard 04 18 23 25 at 0743, 0806, 1357, 0755 - location nr. Samara
DARC	14008,0	0902	23	09	F1B		UiPTR			is active
DARC	14008,0	vt	vd	09	F1B	RUS	UiPTR	50	500	unid printer, location West of Moscow
DARC	14010,0	1140	03		A3E		UiBC			unid BC
DARC	14013,0	2112	04	09	G7B		UiMUX			frequency hopper
DARC	14016,0	0730	06	09	F1B	RUS	UiPTR	75	250	unid printer, location East Russia
DARC	14018,0	0659	13	09	J7D	RUS	UiMUX			MPSK-12, AT-3004-D
DARC	14019,0	vt	25	09	F1B	S	UiPTR	50	200	fast reversals and printer, heard 1422 - 1522 - MIL PTR location Area of Stockholm
DARC	14019,0	0816	26	09	F1B	S	UiPTR	50	200	unid printer and reversals, is active 25 - 29 - time 0816, 0845, 1422, 1451, 1613
DARC	14020,0	2108	04	09	G7B		UiMUX			frequency hopper
DARC	14026,0	0812	28	09	J7D	RUS	UiMUX			MPSK-12, AT-3004-D
DARC	14030,4	0701	13	09	J7D	RUS	UiMUX			MPSK-12, AT-3004-D
DARC	14037,0	0711	06	09	F1B	RUS	UiPTR	75	250	unid printer, location East Russia
DARC	14040,0	1650	17	09	A3E	RUS	Voice of Russia			IM 1) 13670 2) 13855 knitting pattern: 13855 x 2 - 13670 = 14040
DARC	14046,7	vt	vd	09	G7B	EGY	MFA Cairo	16 x 75		MFA Cairo with Egy Emba Pyongyang, system CODAN-9001 - heard 12 15 16 at 1430, 1338, 1356
DARC	14046,7	vt	vd	09	G7B	EGY	MFA Cairo	16 x 75		MFA Cairo with Egy Emba Pyongyang, system CODAN-9001 - heard 12 15 16 at 1430, 1338, 1356
DARC	14046,5	1340	03	09	G7D	EGY	MFA			CODAN-9001, 16 x 75

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	REMARKS AND OBSERVATIONS
							Cairo			Bd
DARC	14046,7	vt	vd	09	F1B	EGY	MFA Cairo "OOVF"	100	170	SITOR-A and SITOR-B, heard all month 1330 - 1500 - 15 reports
DARC	14046,7	vt	vd	09	F1B	KRE	Egypt Emba Korea (North)	100	170	SITOR-A and SITOR-B, heard all month 1330 - 1500 - 15 reports calling OOVF
DARC	14050,0	0639	20	09	F1B		UiPTR			is active
DARC	14050,7	1015	17	09	F1B	EGY	MFA Cairo	100	170	SITOR-A calling OOVF
DARC	14051,0	1140	03	09	J7D		UiMUX			MPSK-12-, AT-3004-D
DARC	14052,0	0928	06	09	J7D	RUS	UiMUX	120		MPSK-12, AT-3004-D, location Ural Mountain
DARC	14052,0	0801	28	09	J7D	RUS	UiMUX			MPSK-12, AT-3004-D
DARC	14055,0	1747	01	09	G7B		UiMUX			frequency hopper
DARC	14056,7	1452	29	09	F1B	EGY	UiPTR	100	170	SITOR-A, is MFA Cairo
DARC	14056,7	1810	16	09	F1B	EGY	MFA Cairo	100	170	SITOR-A and SITOR-B calling OOVF
DARC	14062,0	0814	22	09	G7B		UiMUX			frequency hopper
DARC	14067,7	1358	15	09	F1B	EGY	MFA Cairo	100	170	SITOR-A and SITOR-B calling OOVF
DARC	14069,0	1003	25	09	G7B		UiMUX			frequency hopper
DARC	14090,0	1012	17	09	J7D		UiMUX			MPSK-12-, AT-3004-D
DARC	14091,0	vt	vd	09	J7D	RUS	UiMUX	120		MPSK-12, AT-3004-D, QPSK, location West of Moscow
DARC	14111,0	0922	24	09	J7D	BLR	UiMUX	120		MPSK-12, AT-3004-D, 12 x 120 Bd QPSK
DARC	14115,0	1810	23	09	F1B		UiPTR			fast reversals
DARC	14119,0	0750	17	09	G7B		UiMUX			frequency hopper
DARC	14119,0	1040	17	09	FSK	F.Ea	UiMUX	125	1750	ALE, selcalls TXZ, YW2 - Far East?
DARC	14120,0	0744	04	09	F1B	BLR	UiPTR	75	250	unid printer, northern part of BLR
DARC	14120,0	0745	08	09	F1B	BLR	UiPTR	81	250	unid printer, North Belarus
DARC	14133,0	0744	09	09	F1B	RUS	UiPTR	75	250	unid printer
DARC	14135,0	0808	18	09	F1B	RUS	UiPTR	75	250	unid printer, location East Russia
DARC	14135,0	0816	22	09	F1B	RUS	UiPTR	75	250	unid printer, location East of Russia
DARC	14135,0	0745	25	09	F1B	RUS	UiPTR	75	250	unid printer, location East Russia
DARC	14141,0	0745	04	09	F1B	RUS	UiPTR	75	500	unid printer
DARC	14160,0	0717	06	09	F1B	RUS	UiPTR	75	250	unid printer, location Baltic Russia
DARC	14162,0	0745	09	09	J7D	RUS	UiMUX	120		MPSK-12, AT-3004-D, location Moscow
DARC	14162,0	0807	09	09	J7D	RUS	UiMUX			MPSK-12, AT-3004-D
DARC	14180,0	vt	18	09	F1A		674			morse "674" repeated several times, then 5F
DARC	14180,0	vt	vd	09	F1B	UKR	UiPTR	50	200	unid printer, heard 16 30 at 1022, 1404
DARC	14184,0	0819	28	09	F1B	RUS	UiPTR	81	250	unid printer
DARC	14186,0	1040	25	09	F1B	UKR	UiPTR	50	200	unid printer, location Sevastopol
DARC	14192,0	0659	03	09	F1B		UiPTR			fast reversals
DARC	14210,0	0725	16	09	A3E	ALB	Radio Tirana			harmonic de 7105, Squiptar voice
DARC	14210,0	vt	23	09	A3E	ALB	Radio Tirana			S8-signal, heard 0836 - 0900 s/off, 2f de 7105
DARC	14232,4	1318	08	09	A1A	IRN	beacon IW3ICH			not coordinated and unnecessary beacon

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	REMARKS AND OBSERVATIONS
DARC	14233,0	0946	17	09	F1B	RUS	UiPTR	75	250	unid printer - location South of St. Petersburg
DARC	14240,0	0745	09	09	J7D	CHN	UiMUX	120		MPSK-12, AT-3004-D, location Beijing
DARC	14242,0	0712	02	09	J7D	RUS	UiMUX	120		MPSK-12, AT-3004-D, location Novgorod
DARC	14250,0	1333	17	09	A3E		UiBC			unid BC, IM product
DARC	14266,0	0736	17	09	G7B		UiMUX			frequency hopper
DARC	14267,0	0722	21	09	XXX		UiMUX			rushing noise
DARC	14267,0	0845	21	09	G7B	CHN	UiMUX			wideband signal 4 kHz
DARC	14310,0	1623	01	09	A3E	ALB	Radio China Intl.			German px, S9, is 2f de 7155
DARC	14323,4	1404	23	09	A1A	I	IW3ICH			unknown and uncoordinated beacon
DARC	14340,0	1508	13	09	G7B		UiMUX			frequency hopper
DARC	14340,0	0737	16	09	F1A	RUS	UiCW			Cyrillic morse, shift keying
DARC	14345,0	1305	17	09	G7B		UiMUX			frequency hopper
DARC	14350,0	1344	02	09	P0N	G / CYP	Cyprus OTH-Radar			is active, 50-Hz-system
DARC	14350,0	1924	07	09	A3E	CHN	RCI			French px, S8, 2f
DARC	14350,0	vt	vd	09	A3E	IRN	IRIB Tehran			harmonic from 7175, heard 06 16, daily 1700 - 1800
DARC	14365,0	1611		09	P0N	G / CYP	Cyprus OTH-Radar			is active, splatters into ham band
DARC	18075,0	1230	03	09	P0N	G / CYP	Cyprus OTH-Radar			is active, 50-Hz-system
DARC	18180,0	0747	08	09	JAM	CHN	Hainan Firedrake Jammer			is active, just info
DARC	21000,0	1827	17	09	G7B		UiMUX			frequency hopper
DARC	21005,0	1610	19	09	P0N	G / CYP	Cyprus OTH-Radar			is active, 50 Hz-system (= 50 pps)
DARC	24900,0	0803	04	09	P0N	I	Codar HF Radar			location Naples, Italy - wiping out 24 Mhz ham band - 2 pps
DARC	29684,7	vt	vd	09	G7B	I	UiMUX			serial modem, Italian MIL located Brescia, permanent, heard 04 18 at 1435, 1545
DARC	29699,7	vt	vd	09	G7B	I	UiMUX			serial modem, Italian MIL located Brescia, permanent, heard 04 18 at 1435, 1545

IRTS – Ireland – EI4GXB (Ger) ---

## MRASZ – Hungary - HA7PL (Laci)

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	DETAILS
MRASZ	7000,0	VT	VD	09	FSK8 (ALE)	ALG	UiMUX	125	1750	ALGERIAN FORCES NET MADE WEEK TRAFFIC. STATIONS WERE: DKJ, ASD, POW, EKK
MRASZ	7000,0	0-24	DLY	09	FSK8 (ALE)	ALG	UiMUX	125	1750	ITALIAN CARABINIERI NET. BUSY AS EVER.
MRASZ	7000,0	VT	30	09	FSK8 (ALE)	Ui	UiMUX	125	1750	UNID KF1 CALLED BY KF2
MRASZ	7005,0	VT	VD	09	FSK8 (ALE)	Ui	UiMUX	125	1750	MYSTERIOUS NET. CALLSIGN: 123487
MRASZ	7008,0	VT	VD	09	FSK8 (ALE)	Ui	UiMUX	125	1750	NEW INTRUDER. CALLSIGNS : DELTA; DELTA1; ECHO
MRASZ	7010,0	VT	VD	09	FSK8 (ALE)	Ui	UiMUX	125	1750	CS-RS NET AS USUAL.
MRASZ	7010,0	1942	02	09	J3E-U					MALE (spanish language)
MRASZ	7014,0	VT	VD	09	FSK8 (ALE)	NIG	UiMUX	125	1750	411411 -- 411413 "411" net NIGERIAN POLICE
MRASZ	7017,0	1646	17	09	F1B		UiPTR			
MRASZ	7026,0	VT	VD	09	FSK8 (ALE)	Ui	UiMUX	125	1750	THE RELATIVELY NEW INTRUDER (FIRST APPEARED HERE 07/2008) MADE HIGH ACTIVITY. NEW CALLSIGNS APPEARED: HUNTER10, HUNTER26, FIGHTERTAC, FIGHTER6, FIGHTER7, OUTLOW6, OUTLOWTOC, BEAST16, BEASTTOC, SAPPERTO, SAPPER30, RENEGADE36, RENEGADETOC, ROUGE16, ROUGE36, ROUGETOC, 5TST. IT MIGHT BE A WARGAME
MRASZ	7026,0	VT	VD	09	FSK8 (ALE)	Ui	UiMUX	125	1750	523 CALLED 314
MRASZ	7038,7	1428	25	09	A1A	UKR	BEACON „D”			Sevastopol
MRASZ	7039,0	1428	25	09	A1A	RUS	BEACON „C”			Moscow
MRASZ	7038.9	1428	25	09	A1A	RUS	BEACON „S”			Murmansk
MRASZ	7050,0	VT	VD	09	FSK8 (ALE)	Ui	UiMUX	125	1750	A1L CALLED BAC
MRASZ	7070,0	VT	VD	09	FSK8 (ALE)	CHN	UiMUX	125	1750	244-288 NET USUAL TRAFFIC
MRASZ	7080,0	VT	VD	09	FSK8 (ALE)	Ui	UiMUX	125	1750	THE MYSTERIOUS 5810 NET
MRASZ	7086,0	VT	VD	09	FSK8 (ALE)	Ui	UiMUX	125	1750	NEW INTRUDER. CALLSIGNS : G5A; 53G
MRASZ	7090,0	VT	VD	09	FSK8 (ALE)	I	UiMUX	125	1750	ITALIAN CARABINIERI 4001 SUBNET
MRASZ	7092,0	VT	VD	09	FSK8 (ALE)	I	UiMUX	125	1750	ITALIAN CARABINIERI 4001 SUBNET LOTS OF CALLSIGNS
MRASZ	7097,0	VT	VD	09	FSK8 (ALE)	Ui	UiMUX	125	1750	BAO-CALLED 8ST.
MRASZ	7100,0	VT	VD	09	FSK8 (ALE)	ALG	UiMUX	125	1750	ALGERIAN FORCES, DKJ, ASD, POW, AWJ AND NEW TWO ONES T03, A03
MRASZ	14014,0	0910	26	09	A1A		Ui			2KLJ 2KLJ 2KLJ QTC AR (3times)
MRASZ	14014,0	0912	26	09	A1A		Ui			I3WM I3WM I3WM 237 22 26 1256 237= 852=PPPPP VFNCA DAOCH RPT AA =PPPPP VFNCA XDAOCh WCPCS

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	DETAILS
										EBPÜM....
MRASZ	14014,0	0916	26	09	A1A		Ui			CTPQ DE I3WM R237? K CTPQ DE I3WM R237? K 7WW4 DE I3WM R237? K
MRASZ	14018,0	0746	28	09	F1B		UiPTR			
MRASZ	14019,0	0733	26	09	F1A	RUS?	Ui			AKRIDIN 4008 6596 CEREBRON 8603 6106 PONGO 4354 3418 EHIDSTWO 8431 1813 K
MRASZ	14019,0	0734	26	09	F1B	RUS	UiPTR		200	
MRASZ	14019,0	0736	26	09	F1A	RUS?	Ui			XXX XXX RLO RLO 98272 AKRI DIN 4008 6596 CEREBRON 8603 6106 PONGO 4354 3418 EHIDSTWO 8431 1813 (with manual keying)
MRASZ	14026,0	0753	28	09	J7D	RUS	UiMUX			
MRASZ	14182,0	1002	28	09	F1B		UiPTR			
MRASZ	14207,0	1105	08	09	FSK2	KOR	UiPTR	1200	1200	NORTH COREAN EMBASSY TRAFFIC WITH 1k2 HIGH SPEED MODULATION
MRASZ	14246,0	1120	08	09	FSK2	KOR	UiPTR	600	600	NORTH COREAN EMBASSY TRAFFIC
MRASZ	14265,0	1049	08	09	FSK2	RUS	UiPTR	75	250	FAST REVERSALS (REA4)
MRASZ	14347,0	1010	28	09	F1B		Ui			

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

### REP – Portugal – CT4AN (Jose Francisco)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	DETAILS
REP	7 023.0	21.30 to 22.30	dly	09	?	none	A3E	From 21.30 to 22.30 fishermen ships, Roger-Bip, at any E.O.T., identified with Arabic/Spanish names, mixt languages, located (eval by strength/bearing) within 150 miles South of Sagres (Algarve).
REP	14 017.0	11.50	13	09	?	none	J3E	Arabic lang. fish. ? 1.6uV / S 4-5 eval loc. SW Lisbon (Went out after 1KW carrier CW jamming)

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

### SRAL – Finland – OH2BLU (Pekka)

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	REMARKS
SRAL	7000,0	0600-0930	19, 25	9		UiMUX	F7		
SRAL	7008,0	0630-1100	*	9		UiPTR	F1B	250	Days 12, 17 & 30
SRAL	7016,0	0630-0930	12	9		UiPTR	F1B	250	
SRAL	7019,0	0800-0900	1	9		UiPTR	F1/N0		
SRAL	7024,0	1630-2000	10, 25	9		UiPTR	F1B	250	
SRAL	7030,0	0730-1700	*	9		UiPTR	F1B	250	Days 4, 21 & 23
SRAL	7038,0	1615-	1	9		UiCW	A1A		MR 5BL

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	REMARKS
		1630							
SRAL	7038,7	h24	dly	9	UKR	D	A1A		Sevastopol
SRAL	7038,8	0600-1400	18-19	9	RUS	P	A1A		Kaliningrad
SRAL	7038,8	0600-1400	27-30	9	RUS	P	A1A		Kaliningrad
SRAL	7038,9	h24	dly	9	RUS	S	A1A		Severomorsk/Murmansk
SRAL	7039,0	h24	dly	9	RUS	C	A1A		Moscow
SRAL	7044,0	1200-1400	14-15	9		UiPTR	F1B	250	
SRAL	7054,0	0500-0700	1-16	9	RUS	UiPTR	F1B	200	25 Hz dotter.
SRAL	7054,0	1700-1900	1-16	9	RUS	UiPTR	F1B	200	25 Hz dotter.
SRAL	7054,0	0330-0500	*	9	RUS	UiPTR	F1B	200	25 Hz dotter. Days 17, 24, 26, 27 & 30
SRAL	7054,0	0500-0700	27-30	9	RUS	UiPTR	F1B	200	25 Hz dotter.
SRAL	7061,0	1200-1700	9, 25	9		UiMUX	F7		
SRAL	7076,0	0500-1730	*	9	RUS	REA4	F1B	250	Days 10, 12, 24 & 25
SRAL	7077,7	0900-1000	27	9		UiPTR	F1B	990	
SRAL	7080,0	0600-2000	15-26	9		UiPTR	F1B	200	
SRAL	7090,0	0430-1400	24-27	9		UiMUX	F7		
SRAL	7100,0	1755-2100	dly	9	KRE	Voice of Korea	A3E		
SRAL	7105,0	1300-1530	dly	9	CHN	JAM	A3E		"Firedrake" also on 7130 & 7185 kHz 1300-1730
SRAL	7117,0	1230-1930	dly	9	RUS	REA4	F1B/A	1000	25 Hz dotter, MR
SRAL	7122,0	0445-1830	dly	9	RUS	RDL	F1B/A	200	25 Hz dotter, MR 5F
SRAL	7149,0	1630-1730	23	9		UiMUX	F7	200	
SRAL	7162,0	0630-1330	*	9		UiPTR	F1B	250	Days 4, 7, 9, 21, 23 & 30
SRAL	7176,0	0830-1300	*	9		UiPTR	F1B		Days 6, 13 & 28
SRAL	7188,0	0700-1130	*	9		UiPTR	F1B	225	37,5 Hz dotter, days 1, 6, 11 & 29
SRAL	7196,0	0700-1200	10, 17	9		UiPTR	F1B	200	
SRAL	10140,0	0645-0715	16	9	CYP/G	OTHR	P0N		50 Hz pulses
SRAL	14000,0	0805-0945	17	9		UiCarr	N0N		
SRAL	14006,0	0750-0900	11, 25	9		UiPTR	F1B		
SRAL	14122,0	0800	13	9		UiMUX	F7		
SRAL	14135,0	0750-0850	25	9		UiPTR	F1B		
SRAL	14180,0	1005-1340	27-28	9		UiPTR	F1B		
SRAL	14186,0	0825-0910	25	9		UiPTR	F1B		
SRAL	14205,0	0855-1005	27	9		UiPTR	F1B		
SRAL	14334,0	0815-1110	9	9		UiMUX	F7		



## USKA – Switzerland – HB9CET (Peter)

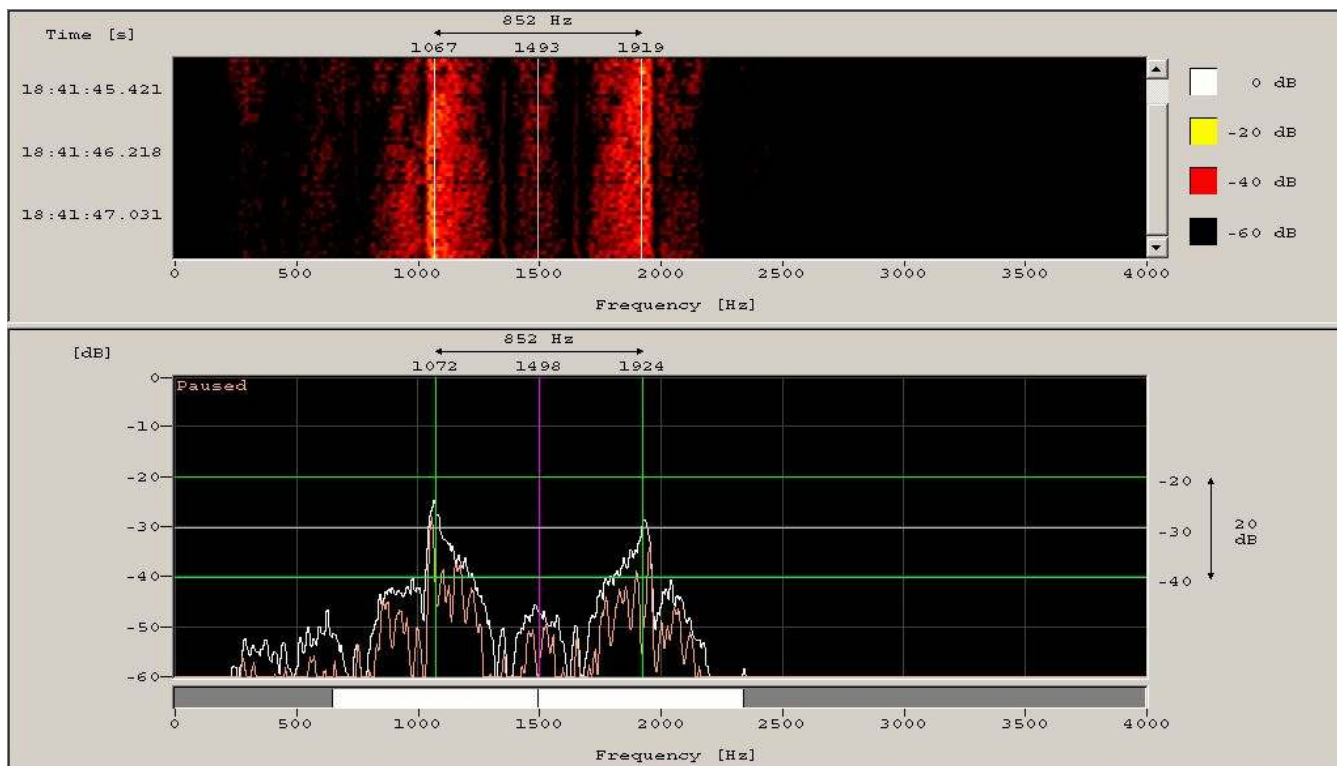
SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
USKA	7023.0	2111	30	09			J7D	12x120		MPSK-12: CIS 12 = AT3004D
USKA	7030.0	2005	23	09			F1B	?	250	unident printer
USKA	7038.7	1213	DLY	09	UKR	D	A1A			Beacon D Sevastopol
USKA	7038.9	1853	DLY	09	RUS	S	A1A			Beacon S Murmansk
USKA	7039.0	1215	DLY	09	RUS	C	A1A			Beacon C Moscow
USKA	7043.5	1347	30	09			F1B	75	200	unident printer
USKA	7054.0	2021	22	09			F1B	50	200	unident printer
USKA	7076.0	0735	DLY	09			F1B	75	250	unident printer
USKA	7080.0	1912	DLY	09			F1B	50	200	unident printer
USKA	7089.0	1809	DLY	09	BLR		A3E			Splatter from 7105 kHz
USKA	7090.0	2007	27	09			F1B	?	200	unident printer
USKA	7091.0	2149	24	09			J7D	12x120		MPSK-12: CIS 12 = AT3004D
USKA	7091.0	1924	26	09			J7D	12x120		MPSK-12: CIS 12 = AT3004D
USKA	14006.0	0721	DLY	09			F1B	75	250	unident printer
USKA	14019.0	1421	25	09			F1B	50	200	unident printer
USKA	14046.6	1416	11	09			F1B	100	170	FSK ARQ Sitor
USKA	14091.0	0719	11	09			J7D	12x120		MPSK-12: CIS 12 = AT3004D -QPSK
USKA	14111.0	1056	24	09			J7D	12x120		MPSK-12: CIS 12 = AT3004D
USKA	14135.0	1029	22	09			F1B	75	250	unident printer
USKA	14162.0	1235	30	09			J7D	12x120		MPSK-12: CIS 12 = AT3004D
USKA	14180.0	1425	DLY	09			F1B	50	200	unident printer
USKA	14186.0	1426	25	09			F1B	50	200	unident printer
USKA	14192.0	1852	26	09			F1B	50	500	unident printer
USKA	14240.0	0829	14	09			F1B	75	250	unident printer
USKA	14242.0	1318	10	09			J7D	12x120		MPSK-12: CIS 12 = AT3004D - BPSK
USKA	14248.5	1126	24	09			F1B			FSK ARQ
USKA	18107.0	1002	27	09			F1B	50	200	unident printer

## Veron – Netherlands – PA0GRU (Dick)

SOC	kHz	UTC	DD	MM	ITU	IDENT	Mode	BD	SH	DETAILS
VERON	7002,0	18.50	25	9	E	UiILL	J3E-u			Spanish, male voices
VERON	7024,0	05.23	vd	9	CIS	LU8Y	A1A			05.44 utc, 5BL,5F, 3 days
VERON	7030,0	07.04	23	9	CIS	UiPtr	F1B		250	Revs, followed by Ptr, F1A morse QJG K
VERON	7030,0	07.08	23	9	CIS	UiCW	A1A			F1A morse with ok QJG and RPT k etc
VERON	7038,7	05.22	vd	9	UKR	D	A1A			20.20 utc, beacon, 21 days
VERON	7038,8	20.31	26	9	RUS	P	A1A			beacon,
VERON	7038,9	05.22	vd	9	RUS	C	A1A			20.20 utc, beacon, Moscow, 15 days
VERON	7038,9	05.48	vd	9	RUS	S	A1A			19.05 utc, beacon, 17 days
VERON	7048,0	19.20	21	9	Italy	IV3XHR	F1B	100	200	Pactor, Winlink PMBO, mailbox
VERON	7054,0	18.44	vd	9	RUS	UiPtr	F1B		200	19.31 utc, Airforce, 2 days, harmful
VERON	7076,0	13.54	24	9	CIS	UiPtr	F1B		250	Ptr, 19.17 utc
VERON	7080,0	19.22	24	9	CIS	UiPtr	F1B		250	Ptr/Revs
VERON	7090,0	18.45	26	9		UiMUX				unid digital broadband
VERON	7116,5	14.06	17	9		UiPtr	F1B		250	Ptr
VERON	7117,5	14.35	24	9		UiPtr	F1B		1000	Ptr
VERON	10108,0	08.50	24	9		UiPtr	F1B		300	Ptr
VERON	10118,0	14.22	24	9		UiMUX	J7D			12 ch MPSK
VERON	10120,0	15.11	16	9		OHTR	PON			radar, wide up 10112-10135 KHz

SOC	kHz	UTC	DD	MM	ITU	IDENT	Mode	BD	SH	DETAILS
VERON	10133,0	13.55	17	9		UiMUX	J7D			8 ch MPSK
VERON	14000,0	08.39	1	9		UiCAR	NON			carrier, 2 days
VERON	14004,0	12.54	23	9	CIS	UiPtr	F1B		250	Ptr
VERON	14005,0	09.02	18	9	CIS	UiPtr	F1B		250	Ptr
VERON	14006,0	07.42	25	9	CIS	UiPtr	F1B		250	Ptr
VERON	14007,0	08.18	21	9	CIS	UiPtr	F1B		250	Ptr
VERON	14008,0	09.11	vd	9	CIS	UiPtr	F1B		250	Ptr, 2 days
VERON	14008,0	08.19	10	9	CIS	UiPtr	F1B		500	Ptr
VERON	14019,0	07.40	25	9	CIS	UiPtr	F1B		250	Ptr
VERON	14019,0	08.42	26	9	CIS	UiPtr	F1B		300	Revs
VERON	14090,0	07.36	11	9	RUS	UiMUX	J7D			12 tone MFSK AT3004D
VERON	14092,0	07.17	2	9	RUS	UiCW	A1A			5BL
VERON	14092,0	08.15	2	9	RUS	CEMH	A1A			XXX CEMH 68004 CHER 1051 0201 K
VERON	14092,0	06.46	3	9	RUS	RGT77	A1A			RGT77 280= (5BL) = K
VERON	14092,0	06.43	9	9	RUS	RGT77	A1A			RGT77 913= 5BL
VERON	14092,0	07.36	12	9	RUS	RGT77	A1A			RGT77 099 = (5BL) = K
VERON	14092,0	06.55	17	9	RUS	RGT77	A1A			RGT77 889= (5BL) = K
VERON	14114,0	08.02	19	9	E	UiILL	J3E-u			Spanish, male/female voices, fishery
VERON	14120,0	06.43	16	9	CIS	UiPtr	F1B		250	Ptr
VERON	14120,0	09.44	6	9		UiCAR	NON			carrier
VERON	14135,0	07.25	25	9	CIS	UiPtr	F1B		250	Ptr
VERON	14158,0	10.21	8	9	RUS	UiMUX	J7D			12 tone MFSK
VERON	14160,0	08.17	9	9	RUS	UiMUX	J7D			12 tone MFSK AT3004D
VERON	14173,0	09.58	12	9		UiMUX	XXX			rushing noise
VERON	14180,0	14.12	24	9	CIS	UiPtr	F1B		200	Ptr
VERON	14180,0	06.39	22	9	RUS	RDL	F1A		250	BAIDER 1416 3180 K
VERON	14180,0	06.40	22	9	RUS	RDL	F1B		250	Revs/Ptr
VERON	14180,0	06.46	22	9	RUS	RDL	F1A		250	RDL 11173 80442 K
VERON	14180,0	13.10	23	9	RUS	RDL	F1B		250	Revs/Ptr, 2 days
VERON	14180,0	08.46	16	9		UiPtr	F1B		250	15.16 utc, Ptr
VERON	14185,0	10.22	8	9		UiCAR	NON			carrier
VERON	14186,0	07.33	25	9	CIS	UiPtr	F1B		250	Ptr
VERON	14186,0	09.45	25	9	RUS	RDL	F1A		250	RDL, followed by 5F
VERON	14186,0	09.53	25	9	RUS	RDL	F1A		250	RDL, 34669 93121 etc K
VERON	14186,0	09.56	25	9	RUS	RDL	F1A		250	F1B, RDL XXX (in morse) Ptr and Revs
VERON	14192,0	06.28	22	9	CIS	UiPtr	F1B		500	Revs/Ptr
VERON	14192,0	10.23	8	9		UiMUX	J7D			12 tone MFSK
VERON	14215,0	09.59	12	9		UiCAR	NON			carrier
VERON	14240,0	09.20	5	9	CIS	UiCW	A1A			ZDS ZZT LMLK etc
VERON	14240,0	08.44	9	9	RUS	UiMUX	J7D			12 tone MFSK AT3004D, also 10/9
VERON	14264,0	10.11	20	9	E	UiILL	J3E-u			Spanish, male/female, fishery
VERON	14266,0	08.15	1	9	CIS	UiPtr	F1B		250	Ptr
VERON	14275,0	10.24	8	9		UiCAR	NON			carrier
VERON	14276,0	10.17	12	9		UiCAR	NON			carrier
VERON	14278,0	07.43	11	9	CIS	UiCW	A1A			5BL
VERON	14284,0	08.37	15	9	CIS	UiCW	A1A			5BL
VERON	14284,0	11.58	17	9	CIS	UiCW	A1A			5BL- JBOAV XHIBR etc
VERON	14332,0	07.12	16	9	CIS	UiPtr	F1B		250	Ptr
VERON	14336,0	08.20	1	9	CIS	UiCW	A1A			5F uvxwj xasmo etc
VERON	14337,0	08.21	1	9	CIS	UiCAR	NON			carrier
VERON	14350,0	14.55	3	9	E	UiILL	J3E-u			Spanish, male/female voices
VERON	14350,0	17.05	27	9	Italy	UiILL	J3E-u			Italian, male voices
VERON	14350,0	08.21	1	9		OHTR	PON			radar, wide up to 14380 KHz

– F1B system “Clansman” – 300 Bd, 850 Hz shift – daily transmitting on 3522 kHz – location: Italy, Milano – probably MIL traffic – legal operation! Wavecom W61 screenshot



## IARUMS Region 1

Manual2006, 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

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