



International Amateur Radio Union

Region 1



Monitoring System

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The monthly newsletter for Region 1

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The members of the IARUMS Region 1 Monitoring Team:



Acknowledgements

++ ARI: DH7SA – Salvatore ++ ARSK: 5Z4NU - Ted ++ DARC: DJ9KR - Uli ++ EARA: SU1SA - Sayed
++ IRTS: EI4GXB - Ger ++ KARS: 9K2RR – Faisal ++ MARL: 9H1M – Dominic ++ MRASZ: HA7PL - Laci ++
++ NARS: 5N9AYM – Yusuf ++ OEVSU: OE3DMA – Alex ++ PZK: SP3SUZ – Wladyslaw ++ RAL: OD5RI – Riri ++
++ REP: CT4AN – Jose and CT1JTQ – Angelo ++ RSGB: G4BOH - Chris ++ SARL: ZS4SM - Malcolm ++
++ SRAL: OH2BLU - Pekka ++ URE: nn ++ USKA: HB9CET - Peter ++ VERON: PA0GRU - Dick ++ ZRS: S56ZDB - Darko
++ G3VZV – Graham (satellite intrusions) ++ TG9AJR – Juan (Co-ordinator Region 2) ++
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++ DJ7KG (BUOYS) ++ DF5SX (BC) ++ DARC (server support) ++ German PTT (BNetzA) ++ 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

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Part 1: News and Infos

1. Plasma TV QRM finished

Due to excellent assistance of the BNetzA office in Fulda (Germany) the Plasma TV problem in my neighbourhood could be solved. Many thanks dear colleagues!

2. 7000.0 kHz – the super pirate frequency

7000.0 kHz is daily abused by numerous pirates. In Region 1: Moroccan fishermen in USB very often, sometimes daily. In Region 3: Far East pirates (Indonesia?) in LSB and USB, singing and laughing, seem to be drunken.

3. Tamil fishery also on 21000.4 kHz

I found Tamil fishery on 21000.4 kHz in USB on several days. They were talking in Sinhala language, the location was west of the Andaman Islands. The only thing they understand is QRM. You can find these fellows daily on 14000.0, 14001.5 and 14003.0 in LSB and USB, too.

4. German Customs not active on 7 MHz

The Hungarian MRASZ reported several times, that the German Customs is transmitting on 7 MHz in ALE = MIL-188-141A. The German PTT (German Network Agency) contacted the German Customs and asked for these circumstances. Result: The German Customs did never transmit on 7 MHz. So we believe that someone abused the ALE idents of the German Customs on 7 MHz. A stupid and irresponsible joke.

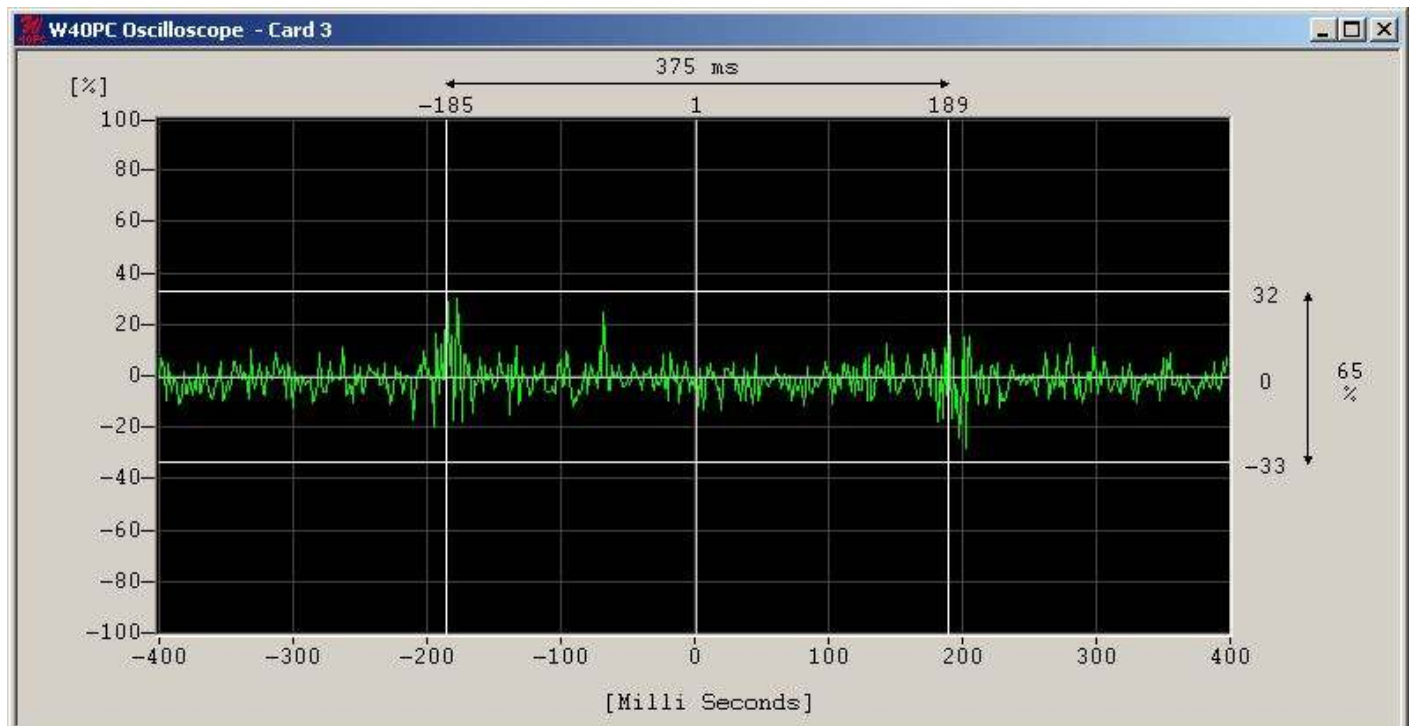
5. Tiger Radar Bruny in Region 3 leaves 10 MHz-Band

Glenn, VK4DU, wrote a mail to John Devlin from the La Trobe University and complained of the Tiger Radar in our 10 MHz-band. Result: On January 2010 the radar will be programmed with a new database. The Tiger-Radar from Bruny will no longer interfere Amateur Radio Bands! Uli, DJ9KR, sent also complaints to ACMA and the La Trobe University. Great actions dear Glenn and Uli! A great start into the new year!

6. New Radar on 7 MHz

In December 2009 I found another kind of radar on our 7 MHz-Band, sometimes audible on 7000, 7050 and 7100 kHz with a bandwidth of about 40 kHz. It was found daily between 1300 and 1800 UTC and sounded like a Codar HF-Radar. The pulserate was about 3 pulses/sec. Bearings were showing the east coast of USA.

New Radar on 7 MHz – oscillogram with Wavecom W40 – DK2OM 375 msec between the pulses – east coast of USA



8. Homepage IARU Region 1 <http://www.iaru-r1.org/>
Homepage IARUMS Region 1 <http://www.iarums-r1.org>
Homepage IARUMS Region 2 <http://www.intruder-watch.org/>
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, 2009

Our best wishes to all for a Happy, Healthy and Prosperous New Year.

Propagation was again variable on all bands, forty meters being affected particularly with day to day variation. Intruders apparently from DRC were more prominent. Somalis showed varying intensities from different areas of that country. It is thought there is still an illegal station in or near Garissa. Apart from the Garissa intruder on 40 meters there has been little or no interference originating inside Kenya this year on the amateur bands.

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	7000.0	vt	*	12	SOM	UiPHONE	J3Eu	Somalis. *29,30,
ARSK	7005.0	0630	24	12	ZAI	UiPHONE	J3Eu	Vernacular.
ARSK	7009.0	vt	dly	12	ZAI?	UiPHONE	J3Eu	Vernacular, some English.
ARSK	7012.0	vt	dly	12	SOM	UiPHONE	J3Eu	Somalis.
ARSK	7015.0	vt	*	12	ZAI	UiPHONE	J3E	Kiswahili, vernacular.*17,22,24,
ARSK	7016.0	0740	10	12	SOM	Galkayu	J3Eu	Somalis.
ARSK	7017.0	0830	17	12	SOM	UiPHONE	J3Eu	Somalis.
ARSK	7020.0	vt	*	12	ZAI	UiPHONE	J3E	Vernacular.*21,25,
ARSK	7022.0	0718	30	12	SOM	UiPHONE	J3Eu	Somalis.
ARSK	7025.0	0832	29	12	SOM	UiPHONE	J3Eu	Somalis.
ARSK	7026.0	vt	10	12	SDN	T1, T2, Peter, PA, PD, E1. Twiga net	J3Eu	English, sometimes encryped messages, NGO.
ARSK	7031.0	0821	17	12	SOM	UiPHONE	J3Eu	Somalis.
ARSK	7040.0	0826	17	12	SOM	UiPHONE	J3Eu	Somalis
ARSK	7041.0	vt	*	12	SOM	UiPHONE	J3Eu	Somalis.*17,31.
ARSK	7045.0	1255	30	12	SOM	UiPHOINE	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 sending five letter code groups, presumably an encrypted mssage.
ARSK	7046.0	0632	24	12	SOM	UiPHONE	J3Eu	Somalis.
ARSK	7055.0	vt	dly	12	ZAI	UiPHONE	J3Eu	KiSwsahili, vernacular.
ARSK	7057.0	0916	31	12	SOM	UiPHONE	J3E	Somalis.
ARSK	7059.0	0830	17	12	SOM	UiPHONE	J3E	Somalis
ARSK	7060.0	0835	29	12	ZAI	UiPHONE	J3Eu	Vernacular.
ARSK	7069.0	vt	30	12	SOM	UiPHONE	J3Eu	Somalis.
ARSK	7075.0	vt	*	12	ZAI	UiPHINE	J3Eu	KiSwahili, & possibly Lingala. *17
ARSK	7081.0	0837	29	12	SOM	UiPHONE	J3Eu	Somalis.
ARSK	7085.0	1255	30	12	ZAI	UiPHONE	J3Eu	KiSwahili, French.
ARSK	7089.0	vt	*	12	SOM	UiPHONE	J3Eu	Somalis. Switches sidebands. *10,23,

H'd by	kHz	UTC	dd	mm	ITU	Identity	Mode	Details
ARSK	7092.0	0634	24	12	SOM	UiPHONE	J3Eu	Somalis.
ARSK	7093.0	vt	*	12	SOM	UiPHONE	J3Eu	Somalis.*3,17,21,
ARSK	7110.0	vt	dly	12	ETH	Addis Ababa	A3E	Broadcast, Addis Ababa, Ethiopia
ARSK	7125.0	0828	29	12	SOM	UiPHONE	J3E	Somalis.
ARSK	7142.0	0829	29	12	SOM	UiPHONE	J3Eu	Somalis.
ARSK	7165.0	vt	dly	12	ETH	Addis Ababa	A3E	Broadcast. Arabic, Amharic.
ARSK	7175.0	vt	dly	12	ERI	VOBM?	A3E	Broadcast.
ARSK	7195.0	vt	dly	12	UGA	Kampala	A3E	Broadcast, Radio Uganda
ARSK	7200.0	vt	dly	12	SDN	Khartoum	A3E	Broadcast in Arabic, Khartoum.

DARC – Germany – Part 1 – DJ9KR (Uli)

PSE observe: BC (A3E) 7100 – 7200 kHz -> blue

CLUB	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	REMARKS AND COMMENTS
DARC	3500,0	1826	20	12	E	UiILL	J3E-U		Spanish fishery, also using vocoder CRY-2001, heard 11 20 at 1724, 1826
DARC	3510,0	2130	06	12	RUS	UiILL	J3E-U		Russian net, male persons
DARC	3515,0	1602	21	12	RUS	UiILL	J3E-U		pirates in Russian voice
DARC	3519,0	0846	17	12	G	UiILL	J3E-U		UK fishery
DARC	3520,0	1645	04	12	G	UiILL	J3E-U		UK fishery, very rude and obscene
DARC	3520,0	1420	05	12	N.Eu	UiILL	J3E-U		Scandinavians
DARC	3520,1	1743	11	12	E	UiILL	J3E-L		Spanish fishery, LSB
DARC	3540,0	1630	07	12	F	UiILL	J3E-U		French fishery
DARC	3548,0	1934	26	12	RUS	UiILL	J3E-U		male and female Russian voices, phone patches
DARC	3550,0	vt	04	12	F	French Lis Amateurs	A3E		AM in CW section, violation of IARU Rules, heard F6ACB - Roland, F1APJ - Christophe, F8DNQ - Denis, F6HIF - Patrick - heard 0715 - 0815
DARC	3550,0	1748	05	12	E	UiILL	J3E-U		Spanish fishery
DARC	3550,0	1722	15	12	F	UiILL	J3E-U		French fishery
DARC	3550,0	vt	15	12	F	French Lis Amateurs	A3E		heard F8DNQ - Denis, F6HSB - Yvon, F5DQH - Michel - heard 0828 - 0840
DARC	3550,0	vt	16	12	F	French Lis Amateurs	A3E		French lis amateurs using AM (A3E) - heard F6HSB - Yvon, F6ACB - Roland, F9YA - Gérard
DARC	3550,0	vt	vd	12	F	French Lis Amateurs	A3E		AM in CW section, violation of IARU Rules
DARC	3555,5	1730	15	12	F	UiILL	J3E-U		French fishery
DARC	3560,0	2103	04	12	KRE	V.o.Korea	A3E		weak signal
DARC	3560,0	1819	05	12	KRE	V.o.Korea	A3E		daily
DARC	3560,0	2135	29	12	KRE	V.o.Korea	A3E		S4-signal
DARC	3593,8	2103	04	12	RUS	beacon P	A1A		Kaliningrad
DARC	3594,0	2135	29	12	RUS	beacon C	A1A		Moscow
DARC	3594,0	2135	29	12	UKR	beacon D	A1A		Sevastopol
DARC	3594,0	2135	29	12	RUS	beacon P	A1A		Kaliningrad
DARC	3600,0	2114	05	12	F	French Lis Amateurs	J3E-U		French Amateurs, daily
DARC	3600,0	vt	10	12	F	French Lis Amateurs	A3E		heard F6FKF-Jean-Pierre, F6CNK-Christian, F1APJ-Christophe, F1JGC-Lucien - 1724 - 1736
DARC	3600,0	1448	18	12	G	UiILL	J3E-U		UK fishery
DARC	3600,0	vt	vd	12	F	UiILL	A3E		French amateurs, AM used
DARC	3700,0	2200	04	12	RUS	beacon P	A1A		Kaliningrad
DARC	7000,0	1524	05	12	I	UiILL	J3E-L		Italian male voices
DARC	7000,0	0947	06	12	I	Italian Lis Amateurs	J3E-L		possible Italian lis amateurs. They are using ham radio calls, traffic in LSB which means "out-of-band"

CLUB	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	REMARKS AND COMMENTS
									operation - strange!
DARC	7000,0	vt	06	12	I	IZ7NTL/2	J3E-L		OP Paolo from Brescia, with Enzo - Italian male voices heard 0815 - 0820
DARC	7000,0	1004	13	12	I	UiILL	J3E-U		Italian male net
DARC	7000,0	1006	13	12	I	I8HAK	J3E-L		Italian male person, with other Italian station
DARC	7000,0	1353	20	12	E	UiILL	J3E-L		pirates calling "Romeo"
DARC	7000,0	1412	20	12	F.Ea	UiILL	J3E-L		pirates from Indonesia (?), singing
DARC	7000,0	1402	23	12	F	UiILL	J3E-L		pirates in French voice, LSB
DARC	7000,0	1432	23	12	I	UiILL	J3E-L		Italian pirates
DARC	7000,0	1947	31	12	TUR	UiILL	J3E-U		Turkish male net with "Radio Check"
DARC	7000,0	vt	vd	12	MRC	UiILL	J3E-U		Moroccan fishery heard 18 29 20 29 at 2228, 1738, 1748, 1732
DARC	7000,0	vt	vd	12	MRC	UiILL	J3E-U		Moroccan fishery, heard 10 28 at 1648, 2034
DARC	7000,1	2257	29	12	E	UiILL	J3E-U		Spanish voice
DARC	7000,8	0400	31	12	M.Ea	UiILL	J3E-U		pirates from Middle East (?)
DARC	7001,0	0911	31	12	S.As	UiILL	J3E-U		Tamil fishery
DARC	7018,0	2135	29	12	RUS	UiPTR	F1B	1000	fast reversals
DARC	7020,0	0717	15	12		UiBC	A3E		unid BC, IM?
DARC	7021,0	0707	04	12		UiMUX	FSK8		ALE heard
DARC	7030,0	1945	19	12	MRC	UiILL	J3E-U		Moroccan fishery
DARC	7038,7	0717	15	12	UKR	beacon D	A1A		Sevastopol
DARC	7039,0	0717	15	12	RUS	beacon C	A1A		Moscow
DARC	7039,0	0717	15	12	I	IZ3DVW / BEACON	A1A		unwanted and not coordinated beacon
DARC	7039,0	2002	27	12	RUS	beacon C	A1A		Moscow
DARC	7039,0	2002	27	12	UKR	beacon D	A1A		Sevastopol
DARC	7039,0	0715	28	12	RUS	beacon C	A1A		Moscow
DARC	7039,0	0715	28	12	RUS	beacon D	A1A		Sevastopol
DARC	7054,0	0707	04	12	RUS	UiPTR	F1B		reversals and occasional printer
DARC	7089,0	0715	28	12		UiMUX	G7D		Stanag-4285, 2k4, 8PSK
DARC	7098,0	vt	15	12		UiPTR	F1B		printer heard 0717 - 0825
DARC	7100,0	2110	04	12	E	UiILL	J3E-U		2 Spanish male persons, Spanish dialect
DARC	7100,0	0754	05	12	KRE	V.o.Korea	A3E		music
DARC	7100,0	vt	05	12	E	UiILL	J3E-U		Spanish male person, is fishery - heard 0728 - 0740 - witness EA7QQ
DARC	7100,0	1844	22	12	KRE	V.o.Korea	A3E		music, male speaker
DARC	7100,0	2002	27	12	KRE	V.o.Korea	A3E		National Anthem
WaSa	7100,0	1837	30	12	KRE	V.o.Korea	A3E		Armchair level with French language programming.
WaSa	7100,0	1838	30	12	XXX	Important Note	XXX		WaSa is "BCL" Walter Salmaniw from Victoria, Canada. He is a very experienced BCL
DARC	7102,0	1305	20	12		BC89?	A1A		short traffic in CW, 2 stns
DARC	7105,0	2158	03	12	CHN	Nei Menggu PBS China	A3E		Chinese px
DARC	7105,0	2158	03	12	TWN	Sound of Hope	A3E		other than Nei Menggu PBS
DARC	7105,0	vt	09	12	TUN	RTV Tunisia	A3E		Ar mx 1857 - 2108 - is IM3 of 7225 and 7345
DARC	7105,0	2135	14	12		UiMUX	FSK8		ALE heard
DARC	7105,0	1952	15	12	TUN	RTV Tunisia	A3E		parallel 7225 and 7345: same Arabic px as on 7105
DARC	7105,0	2002	27	12	TUN	RTV Tunisia	A3E		weak, S6
WaSa	7105,0	2228	30	12	CHN	Nei Menggu PBS China	A3E		Armchair level Chinese with lots of ads. 22.30 noted // 9529 but out of sync. With 7105 abt 2 seconds behind 9520
DARC	7105,0	vt	vd	12	TUN	RTV	A3E		s/on 1857, Ar voice, Ar music - s/off

CLUB	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	REMARKS AND COMMENTS
						Tunisia			2108
DARC	7105,0	vt	vd	12	CHN	Nei Menggu PBS China	A3E		heard 2157 - 2213, signal 50 dBuV/m, daily active 2200 - 2300, found // 9455, location area of Linghi - report de BNetzA KON
DARC	7105,0	vt	vd	12	TUN	RTV Tunisia	A3E		heard 1932 - 2016, at 2114: nil
DARC	7105,0	2202	vt	12	CHN	Nei Menggu PBS China	A3E		Chinese px, daily active 2200 - 2300, found // 9455
DARC	7105,0	2202	vt	12	TWN	Sound of Hope	A3E		Chinese px, daily active 2200 - 2300
DARC	7110,0	1507	05	12	ETH	R. Ethiopia	A3E		heard 05 12 13 at 1507, 1442, 1602
DARC	7110,0	18100	13	12	ETH	R. Ethiopia	A3E		sign on at 1800
DARC	7110,0	0707	14	12	ETH	R. Ethiopia	A3E		HOA music, weak
DARC	7110,0	0715	15	12	ETH	R. Ethiopia	A3E		
DARC	7110,0	0821	15	12	ETH	R. Ethiopia	A3E		very weak signal, just barely readable
DARC	7110,0	0725	16	12	ETH	R. Ethiopia	A3E		heroic songs
DARC	7110,0	vt	17	12	ETH	R. Ethiopia	A3E		heard 1602 - 1640
DARC	7110,0	2002	27	12	ETH	R. Ethiopia	A3E		S9+10dB
DARC	7110,0	0715	28	12	ETH	R. Ethiopia	A3E		S6
WaSa	7110,0	1508	30	12	ETH	R. Ethiopia	A3E		Fair to good reception in presumed Amharic with rapid speaking male and short music bridges
WaSa	7110,0	1840	30	12	ETH	R. Ethiopia	A3E		Another armchair copy this morning with very enjoyable HOA music.
DARC	7110,0	vt	vd	12	ETH	R. Ethiopia	A3E		heard 06 - 29 at 1435 - 1542, S9+20dB max.
DARC	7110,0	vt	vd	12	ETH	R. Ethiopia	A3E		heard 01 - 22 at 1752 - 1846
DARC	7125,0	2204	03	12	GUI	R. Conakry	A3E		
DARC	7125,0	2205	05	12	GUI	R. Conakry	A3E		French px
DARC	7125,0	vt	05	12	GUI	R. Conakry	A3E		S6, weak mod - heard 1531 and 2144
DARC	7125,0	0811	06	12	GUI	R. Conakry	A3E		is active
DARC	7125,0	1626	06	12	GUI	R. Conakry	A3E		African (?) voice, S9+10dB
DARC	7125,0	1602	13	12	GUI	R. Conakry	A3E		French px
DARC	7125,0	vt	14	12	GUI	R. Conakry	A3E		HOA music heard 0707, 1725 - S9+10dB
DARC	7125,0	0715	15	12	GUI	R. Conakry	A3E		HOA music
DARC	7125,0	2153	15	12	GUI	R. Conakry	A3E		HOA music
DARC	7125,0	0730	16	12	GUI	R. Conakry	A3E		s/on with French px, S8-9
DARC	7125,0	1640	17	12	GUI	R. Conakry	A3E		
DARC	7125,0	0822	18	12	GUI	R. Conakry	A3E		
DARC	7125,0	2002	27	12	GUI	R. Conakry	A3E		French px S87175
DARC	7125,0	2333	27	12		UiBC	A3E		F.Ea music, S9
DARC	7125,0	2148	28	12	GUI	R. Conakry	A3E		French px
DARC	7125,0	vt	dly	12	GUI	R. Conakry	A3E		0600 - 1200 .234567 px in French and dialects
DARC	7125,0	vt	dly	12	GUI	R. Conakry	A3E		0800 - 1200 1..... px in French and dialects
DARC	7125,0	vt	dly	12	GUI	R. Conakry	A3E		1200 - 2400 dly px in French and dialects

CLUB	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	REMARKS AND COMMENTS
DARC	7125,0	vt	dly	12	GUI	R. Conakry	A3E		1845 - 1850 English px
DARC	7125,0	2012	vd	12	GUI	R. Conakry	A3E		heard 0830, 1600 - 2310 every day
DARC	7125,0	vt	vd	12	GUI	R. Conakry	A3E		heard 01 - 15 at 1800 - 1820
DARC	7135,0	2145	05	12		UiBC	A3E		weak, S3
DARC	7135,0	2148	28	12		UiBC	A3E		S2
DARC	7135,0	2135	29	12		UiBC	A3E		S2
DARC	7140,0	0707	04	12	KRE	V.o.Korea	A3E		weak modulation, carrier S7
DARC	7140,0	0811	06	12	KRE	V.o.Korea	A3E		heroic songs
DARC	7140,0	0715	15	12	KRE	V.o.Korea	A3E		very weak signal, just barely readable
DARC	7140,0	vt	15	12	KRE	V.o.Korea	A3E		heard 16 - 29 at 0010, 0539, 0700 - weak signal
DARC	7140,0	0800	16	12	KRE	V.o.Korea	A3E		jingle, Chinese px s/on
DARC	7140,0	0800	16	12	KRE	V.o.Korea	A3E		jingle, s/on Chinese px
DARC	7140,0	vt	16	12	KRE	V.o.Korea	A3E		heard 0725 - 0748 s/off, heroic songs
DARC	7140,0	vt	16	12	KRE	V.o.Korea	N0N		carrier S6
DARC	7140,0	vt	16	12	KRE	V.o.Korea	A3E		heroic songs, s/off with National Anthem at 0748
DARC	7140,0	vt	16	12	KRE	V.o.Korea	N0N		carrier heard 0748 - 0800
DARC	7140,0	0037	21	12	KRE	V.o.Korea	A3E		Jap (?) voice S9+15dB
DARC	7140,0	0715	28	12	KRE	V.o.Korea	A3E		S3
WaSa	7140,0	0132	31	12	RUS	Radio Rossii	A3E		Another "Intruder" in the amateur band. Very good reception with Russian New Year programming. // 7320 and 7200. My Perseus database lists this as "Yakutsk" at 20 kW.
DARC	7140,0	0203	31	12	KRE	V.o.Korea	A3E		Chinese (?) voice, S7
DARC	7142,0	1140	12	12		UiPTR	F1B	250	unid printer, S9
DARC	7164,2	0715	28	12		UiBC	A3E		S5 signal
DARC	7164,5	1540	29	12	E.Af	UiBC	A3E		African music, S9+10dB
DARC	7165,0	0707	04	12	ERI	V.o.Broad Masses	A3E		HOA music
DARC	7165,0	1448	05	12	ETH	R. Ethiopia	A3E		Ar px and mx
DARC	7165,0	1624	06	12	ETH	R. Ethiopia	A3E		African music, S9+20dB
DARC	7165,0	1624	06	12	ETH	ETH Govt. Jammer	JAM		white noise jammer 10 kHz spread, S9++
DARC	7165,0	1325	07	12	ETH	R. Ethiopia	A3E		S9-signal
DARC	7165,0	1434	07	12	ETH	R. Ethiopia	A3E		African mus S9+15dB
DARC	7165,0	1528	07	12	ETH	R. Ethiopia	A3E		ann: 1528, Arabic voice
DARC	7165,0	1724	10	12	ETH	R. Ethiopia	A3E		S9+10dB
DARC	7165,0	1442	12	12	ETH	R. Ethiopia	A3E		
DARC	7165,0	vt	13	12	ETH	R. Ethiopia	A3E		Reggae music (1604), heard 1604 - 1630
DARC	7165,0	vt	13	12	ETH	R. Ethiopia	A3E		English px 1600 - 1700
DARC	7165,0	vt	13	12	ETH	R. Ethiopia	A3E		French px 1700 - 1800
DARC	7165,0	vt	14	12	ETH	R. Ethiopia	A3E		heard 0707, 1725
DARC	7165,0	0715	15	12	ETH	R. Ethiopia	A3E		
	7165,0	1457	15	12	ETH	R. Ethiopia	A3E		heard 0725, ann.: "Addis Abeba", S9+10dB (1457)
DARC	7165,0	vt	17	12	ETH	R. Ethiopia	A3E		heard 1602 - 1640
DARC	7165,0	1541	18	12	ETH	R. Ethiopia	A3E		Arabic/African voice S9+15dB
DARC	7165,0	1513	23	12	E.Af	UiBC	A3E		Arabic/African voice S9+30dB
DARC	7165,0	1533	23	12	E.Af	UiBC	A3E		Asiatic voice, "Kazakhstan" often mentioned, S9+15dB
WaSa	7165,0	1510	30	12	ERI	V.o.Broad Masses	A3E		Fair reception, but with two transmitters noted. One is on 7164,977, and the other is on 7165,267 kHz.
WaSa	7165,0	1510	30	12	ETH	R. Ethiopia	A3E		BC to jam V.o.Broad Masses
DARC	7165,0	1800	vd	12	ERI	V.o.Broad Masses	A3E		ann 1801, ann frequencies
DARC	7165,0	vt	vd	12	ETH	R. Ethiopia	A3E		1600 - 1700: English px

CLUB	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	REMARKS AND COMMENTS
DARC	7165,0	vt	vd	12	ETH	R. Ethiopia	A3E		1700 - 1800: French px
DARC	7165,0	vt	vd	12	ERI	V.o.Broad Masses	A3E		heard 01 - 15 at 1800 - 1817
DARC	7175,0	0707	04	12	ETH	R. Ethiopia	A3E		HOA music
DARC	7175,0	1448	05	12	ERI	V.o.Broad Masses	A3E		HOA music
DARC	7175,0	1629	06	12	ERI	V.o.Broad Masses	A3E		unid voice S9+15dB
DARC	7175,0	1432	07	12	ERI	V.o.Broad Masses	A3E		unid voice, "Somalia" mentioned, S9+15dB
DARC	7175,0	vt	07	12	ETH	ETH Govt. Jammer	JAM		White noise jammer s/on at 1329, till 1400 s/off
DARC	7175,0	vt	07	12	ERI	V.o.Broad Masses	A3E		heard under heavy jamming 1329 - 1526
DARC	7175,0	1724	10	12	ETH	ETH Govt. Jammer	JAM		white noise jammer
DARC	7175,0	1724	10	12	ERI	V.o.Broad Masses	A3E		barely readable
DARC	7175,0	1442	12	12	ERI	V.o.Broad Masses	A3E		HOA music
DARC	7175,0	1604	13	12	ERI	V.o. Broad	A3E		under heavy jammer
DARC	7175,0	1604	13	12	ETH	ETH Govt. Jammer	JAM		white noise jammer 10 kHz spread
DARC	7175,0	1803	13	12	ERI	V.o.Broad Masses	A3E		
DARC	7175,0	0707	14	12	ERI	V.o.Broad Masses	A3E		weak signal heard 0707 and 1725
DARC	7175,0	1725	14	12	ETH	ETH Govt. Jammer	A3E		white noise jammer 10 kHz spread
DARC	7175,0	2135	14	12	RUS	G. Rossiye	A3E		Ru px, IM
DARC	7175,0	0821	15	12	ERI	V.o.Broad Masses	A3E		heard 0821 and 1544
DARC	7175,0	0725	16	12	ERI	V.o.Broad Masses	A3E		weak signal
DARC	7175,0	vt	17	12	ERI	V.o.Broad Masses	A3E		heard 1602 - 1640
DARC	7175,0	1539	18	12	ERI	V.o.Broad Masses	A3E		unid voice, S9+20dB
DARC	7175,0	1615	20	12	ETH	ETH Govt. Jammer	JAM		white noise jammer 10 kHz spread
DARC	7175,0	1512	21	12	ERI	V.o.Broad Masses	A3E		African music and voice, S9+15dB
DARC	7175,0	1716	21	12	ERI	V.o.Broad Masses	A3E		px, jammed by White Noise Jammer, S9+20dB
DARC	7175,0	1532	23	12	ERI	V.o.Broad Masses	A3E		African music and voice, S9+15dB
DARC	7175,0	2002	27	12	ERI	V.o.Broad Masses	A3E		carrier, then sign off
DARC	7175,0	0715	28	12	ERI	V.o.Broad Masses	A3E		Ar mx, S5
DARC	7175,0	1537	29	12	ERI	V.o.Broad Masses	A3E		Oriental / African music, S9+20dB
WaSa	7175,0	1848	30	12	ERI	V.o.Broad Masses	A3E		2nd program listed at good level with talk, presumed in Eritrean, news seemingly at 1858
DARC	7175,0	vt	vd	12	ERI	V.o.Broad Masses	A3E		heard 01 - 22 at 1800 - 1850
DARC	7179,0	2204	03	12	RUS	G. Rossiye	A3E		2 px heard in Russian - is possibly Intermodulation IM
DARC	7179,0	2110	04	12	RUS	G. Rossiye	A3E		Ru px
DARC	7179,0	2145	05	12	RUS	G. Rossiye	A3E		Ru px
DARC	7179,0	vt	30	12	RUS	G. Rossiye	A3E		Ru px, 2 px audible, heard 2125 - 2205
DARC	7180,0	2204	03	12	KRE	V.o.Korea	A3E		Chinese px heard all month 2100 - 2200 - 10 reports all month

CLUB	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	REMARKS AND COMMENTS
WaSa	7180,0	2227	30	12	KRE	V.o.Korea	A3E		Pyongyang in the amateur band with their choir singing to the glory of their dear Leader. Fair to good reception. Not sure of the language service.
DARC	7180,0	vt	vd	12	KOR	Voice of Korea (North)	A3E		1900 - 2000, every day 25.10.09 - 28.03.10
DARC	7185,0	2148	28	12		UiMUX	G7D		Stanag
DARC	7190,0	0050	03	12	CLN	Sri Lanka BC	A3E		music, S6
DARC	7190,0	vt	08	12	I	IT9AVD	A3E		OP Antonio, AM with IZ7AUG - 0833 - 0845
DARC	7190,0	vt	09	12	CLN	Sri Lanka BC	A3E		reported 0030 - 1230, location Ekala, found // 11905
DARC	7190,0	0028	20	12	CLN	Sri Lanka BC	A3E		Oriental music S8
DARC	7190,0	1812	26	12	CLN	Sri Lanka BC	A3E		S1
WaSa	7190,0	0120	31	12	CLN	Sri Lanka Broad-casting	A3E		Fair reception with what sounds like a sermon. At 0127 there was definitely a hymn sung "What a friend we have in Jesus", also Indian style music.
DARC	7190,0	0202	31	12		Sri Lanka BC (?)	A3E		music, vy weak modulation, carrier S9, QSB S7
DARC	7190,0	vt	vd	12	CLN	Sri Lanka Broad-casting	A3E		0300 - 1500, every day 25.10.09 - 28.03.10, px in Hindi
DARC	7190,0	vt	vd	12	YEM	Yemen	A3E		0000 - 0500, every day 25.10.09 - 28.03.10
DARC	7190,0	vt	vd	12	CLN	Sri Lanka Broad-casting	A3E		0800 - 1530, every day 25.10.09 - 28.03.10
DARC	7191,0	1114	06	12	I	Italian Lis Amateurs	A3E		AM used!
DARC	7192,0	vt	08	12	I	IZ7AUG	A3E		OP Antonio, AM with IT9AVD - 0833 - 0845
DARC	7195,0	0715	28	12		UiBC	A3E		weak, S2
DARC	7195,0	1534	29	12		UiBC	A3E		unid voice, S9+20dB
DARC	7195,0	vt	vd	12	I	Italian Lis Amateurs	A3E		often heard
DARC	7200,0	1302	03	12	RUS	G. Rossiye	A3E		Golos Rossiye (= Voice of Russia), Ru px
DARC	7200,0	0707	04	12	RUS	G. Rossiye	A3E		Ru px, found // to Radio Omdurman
DARC	7200,0	0707	04	12	SDN	Radio Omdurman	A3E		HOA music, found // to G. Rossiye
DARC	7200,0	2110	04	12	IRN	IRIB	A3E		Spanish px
DARC	7200,0	1448	05	12	SDN	Radio Omdurman	A3E		Ar px
DARC	7200,0	0811	06	12	RUS	G. Rossiye	A3E		Ru px
DARC	7200,0	1430	07	12	SDN	Radio Omdurman	A3E		Arabic songs, S9+30dB
DARC	7200,0	0813	10	12	RUS	G. Rossiye	A3E		Russian voice S9+10dB
DARC	7200,0	1442	12	12	SDN	Radio Omdurman	A3E		Ar px
DARC	7200,0	1803	13	12	SDN	Radio Omdurman	A3E		Ar px
DARC	7200,0	0707	14	12	SDN	Radio Omdurman	A3E		HOA music
DARC	7200,0	2135	14	12		UiMUX	FSK8		ALE heard
DARC	7200,0	vt	15	12	RUS	G. Rossiye	A3E		Ru px, heard 0715, 0813
DARC	7200,0	0725	16	12	RUS	G. Rossiye	A3E		Ru px, S8, QSB
DARC	7200,0	0934	17	12		UiMUX	FSK8		S9+10dB
DARC	7200,0	0822	18	12	RUS	G. Rossiye	A3E		is Golos Rossiye (= Voice of Russia)

CLUB	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	REMARKS AND COMMENTS
DARC	7200,0	0850	20	12	RUS	G. Rossiye	A3E		Russian px, S9, QSB S7
DARC	7200,0	1530	23	12	SDN	Radio Omdurman	A3E		calls of muezzin, "Allahu akbar", S9+10dB
DARC	7200,0	2114	27	12	IRN	IRIB	A3E		Spanish px S9+25dB
DARC	7200,0	0715	28	12	RUS	G. Rossiye	A3E		Ru px S9
DARC	7200,0	0715	28	12	SDN	Radio Omdurman	A3E		Ar px
WaSa	7200,0	1847	30	12	SDN	Sudan RTVC	A3E		Fair reception with mix of talk and African/Arabic sounding music.
DARC	7200,0	0200	31	12		UiBCs	A3E		several Tx-ers at the same time, S9+10dB
WaSa	7200,0	0448	31	12	RUS	Radio Sakha	A3E		Unknown language at armchair levels, also // to 7140, but not to 5940 or 7320. Russian mentioning "Vladivostok" at 0451.
DARC	7200,0	0555	31	12	RUS	G. Rossiye	A3E		Russian px, S9, QSB S7
DARC	7200,0	vt	dly	12	RUS	G. Rossiye	A3E		Russian px heard 0001, 0237, 0240, 0702, 0832, 1340, 1936, 2005, 2323
DARC	7200,0	vt	dly	12	IRN	IRIB	A3E		heard 2030 - 2130 -Spanish px, S9+30dB
DARC	7200,0	vt	dly	12		Voice of Turkey	A3E		German px, 1827 - 1842 - splatters from station "higher up"
DARC	7200,0	vt	vd	12	RUS	G. Rossiye	A3E		Russian px heard 0645, 0802
DARC	7200,0	vt	vd	12	IRN	IRIB	A3E		station Ahwaz 1630 - 1730
DARC	7200,0	vt	vd	12	IRN	IRIB	A3E		station Kamalabad 1830 - 1930
DARC	7200,0	vt	vd	12	BGD	Radio Bangla Desh	A3E		1300 - 1600, every day 25.10.09 - 28.03.10
DARC	7200,0	vt	vd	12	RUS	Radio Rossiye	A3E		2000 - 1600, every day 25.10.09 - 28.03.10
DARC	7200,0	vt	vd	12	IRN	IRIB	A3E		2030 - 2130, every day 25.10.09 - 28.03.10, Spanish px
HFCC	7200,0	vt	vd	12	SDN	Radio Omdurman	A3E		Arabic px heard 07 22 at 1800 - 1900
HFCC	7205,0	2005	15	12		BC	A3E		splatters down 7190, is Russian px
HFCC	7210,0	0707	04	12	ROU	R. Romania Intl.	A3E		harmful splatters into ham band, Ge px
DARC	10100,8	vt	dly	12	D	DDH, DDK2, DDK9	F1B		German weather heard 0605 - 1540 - is allowed!
DARC	10101,0	1528	24	12	TUR	UiILL	J3E-U		Turkish pirates
DARC	10101,0	vt	vd	12	MRC	UiILL	J3E-U		Moroccan fishery, heard 20 27 28 at 1121, 1559, 1416
La Tro-be	10105,0	1849	29	12	AUS	TIGER-HF- Radar	P0N		active abt 3 seconds due to display by LaTrobe University - then hopping to another QRG - displayed 1849, 1850, 1853
La Tro-be	10110,0	1852	29	12	AUS	TIGER-HF- Radar	P0N		active abt 3 seconds due to display by LaTrobe University - then hopping to another QRG
DARC	10112,0	1158	vd	12	TUR	UiMUX	G7D		Stanag-4285, 2k4, 8PSK - heard 0700 - 1200
DARC	10113,0	1707	10	12	GRC	UiILL	J3E-U		pirates in Greek voice
DARC	10113,9	1754	13	12	E	UiILL	J3E-U		2 Spanish male persons
DARC	10115,0	0715	28	12		UiPTR	F1B		printer
La Tro-be	10115,0	1235	29	12	AUS	TIGER-HF- Radar	P0N		active abt 3 seconds due to display by LaTrobe University - then hopping to another QRG
DARC	10121,3	1942	12	12	MRC	UiILL	J3E-U		OPs Hassan, Hamid, Habib, Mahmud, Moroccan fishery
DARC	10124,5	1939	09	12	KOR	UiILL	J3E-U		Korean ships, fishery
DARC	10125,0	2120	07	12	E	UiILL	J3E-U		Spanish fishery
DARC	10130,0	0715	28	12		UiPTR	F1B		printer
La Tro-	10130,0	1242	29	12	AUS	TIGER-	P0N		active abt 3 seconds due to display

CLUB	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	REMARKS AND COMMENTS
be						HF- Radar			by LaTrobe University - then hopping to another QRG
DARC	10135,0	1726	16	12	MRC	UiILL	J3E-U		Moroccan fishery
DARC	10140,0	vt	17	12	CYP	British OTH Radar Cyprus	P0N		25 pps, heard 1602 - 1638, 10140 - 10160 kHz = 20 kHz spread
La Trobe	10140,0	1241	29	12	AUS	TIGER-HF- Radar	P0N		active abt 3 seconds due to display by LaTrobe University - heard 1241, 1243, 1244, 1850, 1851 1852, 1853 then hopping to another QRG
DARC	10144,0	0715	28	12		UiPTR	F1B		fast reversals
La Trobe	10145,0	1852	29	12	AUS	TIGER-HF- Radar	P0N		active abt 3 seconds due to display by LaTrobe University - then hopping to another QRG
DARC	10146,9	1448	12	12	INS	UiILL	J3E-L		male persons, sounds like Bahasa Indonesia
DARC	10147,0	2013	16	12	F.Ea	UiILL	J3E-L		pirates, LSB used, M.Ea or F.Ea
DARC	10150,0	1448	12	12	MRC	UiILL	J3E-U		male person, whistles, heard 12 23 at 1448, 0944
DARC	10151,0	1958	15	12		UiILL	J3E-U		2 Arabic male, just info
DARC	10160,0	1958	15	12	E	UiILL	J3E-U		2 male persons in Spanish voice, mentioning "mais" and "conjelada"
DARC	13970,0	0843	15	12	CHN	Hainan Music Jammer	JAM		is active 15 16 18 at 0742 - 0843 , just info!
DARC	14000,0	2232	14	12	ISR	YHF2	A3E		is Mossad, female voice
DARC	14000,0	0725	15	12		UiBC	A3E		Italian px (?), IM?
DARC	14000,0	1152	21	12	INS	UiILL	J3E-L		pirate net possibly from Indonesia
DARC	14000,0	0833	30	12	ISR	Mossad	A3E		encrypted voice, is Mossad from Israel
DARC	14000,0	vt	vd	12	S.As	UiILL	J3E-U		Tamil fishery, engine noise - heard 06 12 at 1133, 1401
DARC	14000,6	1003	08	12	RUS	UiILL	J3E-U		pirates, male persons with Russian voice
DARC	14003,0	1405	28	12	S.As	UiILL	J3E-L		Tamil fishery, LSB used
DARC	14095,0	1124	30	12		UiILL	J3E-U		unid pirate net
DARC	14101,5	vt	vd	12	S.As	UiILL	J3E-U		Tamil fishery, engine noise - heard 06 11 27 at 1033 - 1134
DARC	14295,1	ady	dly	12	TJK		A3E		Radio Tajik, 3 rd from 4765
DARC	21000,0	1102	07	12	F.Ea	UiILL	J3E-U		Tamil fishery
DARC	21000,4	1153	21	12	S.As	UiILL	J3E-U		fishery west of Andaman Islands
DARC	21121,5	1647	16	12	E	UiILL	J3E-U		Spanish fishery

DARC – Germany – Part 2 – DK2OM (Wolf)

PSE observe:

FSK transmissions -> center frequency between mark and space

PSK transmissions -> center frequency (substract the modem frequency!)

ALE (MIL188-141A) -> USB frequency – exclusive bands: black – nonexclusive: blue

DARC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
DARC	1812,0	ady	dly	12	POL		A3E			Polish “PIP” – 10 tones – North-Poland – Baltic coast
DARC	1852,0	2051	28	12	BLR		F1B	49	250	BLR MIL
DARC	1876,7	vt	dly	12	G		F1B	1200	850	RM6-modem, ASCII - ACF10 - Scotland
DARC	1876,8	1740	18	12	G		PSK8	2400	2600	Stanag4285 - ship east of Scotland

DARC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
DARC	1896,5	ady	dly	12	D		PSK8	2400	2600	Stanag4285 – German Navy – North-Germany
DARC	3500,0	vt	dly	12						frequency hopper
DARC	3500,0	vt	dly	12	TUR	no ITU	FSK8	125	1750	ALE, “1020” “2010” - Turkish Red Crescent
DARC	3503,5	vt	dly	12	G	no ITU	FSK8	125	1750	ALE – “XSS” “XPU” – British MIL Tascomm
DARC	3504,0	2202	14	12	UKR		PSK2	120	2600	AT3004D - south of Odessa
DARC	3506,0	vt	dly	12	ALG	no ITU	FSK8	125	1750	ALE, “FS40” “GS46” “GS50”
DARC	3510,0	1709	25	12		encryp.	FSK8	125	1750	ALE, “N” “1” - encrypted idents
DARC	3511,3	1830	24	12	I		MFSK	26.7	200	8-tone system, Coquelet-8, tone duration 37.5 msec - Genova
DARC	3522,0	2220	20	12						frequency hopper
DARC	3522,0	2230	27	12	LTU		F1B	75	250	Lithuania - area of Kaunas
DARC	3524,0	2300	12	12	RUS		PSK2	120	2600	AT3004D - south of Smolensk
DARC	3527,0	2118	12	12	RUS		F1B	50	200	Far-East-RUS
DARC	3529,0	vt	dly	12		no ITU	FSK8	125	1750	ALE, “hEJ” “0cl” “Fv6”
DARC	3530,2	2024	14	12	F		PSK4	75	2300	Link11 - west of Nantes
DARC	3531,0	1757	09	12	RUS		PSK2	120	2600	AT3004D - Kaliningrad
DARC	3532,0	1732	18	12	RUS		PSK2	120	2600	AT3004D
DARC	3533,0	vt	dly	12	E	no ITU	FSK	125	1750	ALE, “TYV” “TWL” - Spanish Guardia Civil
DARC	3540,0	1445	02	12	BLR		PSK2	120	2600	AT3004D - Belorussia
DARC	3548,0	1730	20	12	RUS		F1B	50	200	RUS MIL - Murmansk
DARC	3550,0	vt	dly	12	F	no ITU	FSK8	125	1750	ALE, “DRI” - French MIL
DARC	3553,8	ady	dly	12	TUR		PSK8	2400	2600	Stanag4285 – TUR MIL
DARC	3557,0	1500	18	12	LTU		F1B	75	250	Vilnius
DARC	3558,0	vt	dly	12	TUR	no ITU	FSK8	125	1750	ALE, “1020” Turkish Red Crescent
DARC	3559,0	2057	20	12	BLR		PSK2	120	2600	AT3004D - area of Minsk
DARC	3560,0	1800	dly	12	KRE		A3E			Voice of North-Korea – illegal!
DARC	3562,0	2023	23	12	BLR		PSK2	120	2600	AT3004D - area of Minsk
DARC	3566,0	vt	dly	12	E	no ITU	FSK8	125	1750	ALE, “TWL” “TXX” Spanish Guardia Civil
DARC	3567,0	2000	01	12	GRC		F1B	300	850	system “Clansman” – ACF 64 ship, Aegean region
DARC	3568,0	1951	08	12	RUS		F1B	75	250	east of Kaliningrad
DARC	3570,0	2030	09	11	RUS		PSK2	120	2600	Far-East-Russia
DARC	3570,0	1759	05	12	BLR		PSK2	120	2600	AT3004D - Belorussia
DARC	3577,0	vt	dly	12		no ITU	FSK8	125	1750	ALE, “RKALEGRY” “HBALLEGY”
DARC	3577,1	2045	23	12	I	IZ3DVW	A1A			uncoordinated beacon
DARC	3580,0	2251	17	12						frequency hopper
DARC	3585,0	1700	dly	12	TWN	HLL	F1C			120 rpm, IOC 576, Wxfax
DARC	3590,0	vt	dly	12	PAK	no ITU	FSK8	125	1750	ALE, “KW” “TARIQ” – Pakistan Navy - destroyer “Tariq”
DARC	3593,7	ady	dly	12	RUS	D	A1A			beacon “D” - Sevastopol – RUS Naval Base
DARC	3593,8	ady	dly	12	RUS	P	A1A			beacon “P” - Kaliningrad
DARC	3593,9	ady	dly	12	RUS	S	A1A			beacon “S” - Murmansk
DARC	3594,0	vt	dly	12	ALG	no ITU	FSK8	125	1750	ALE, “BT30” “FS30” “WA30”
DARC	3594,0	ady	dly	12	RUS	C	A1A			beacon “C” - Moscow
DARC	3595,0	vt	dly	12	D	no ITU	FSK8	125	1750	ALE – „ZLST“ „ZPRI“ „ZSHO“ „ZBOR“ German customs – North - Germany
DARC	3596,0	vt	dly	12						frequency hopper
DARC	3596,0	1755	24	12	HRV	9A0ALE	FSK8	125	1750	Croatian ALE-net --- for info!
DARC	3599,0	2300	06	12						frequency hopper
DARC	3605,0	1824	21	12			PSK2	120	2600	AT3004D - ship - Black Sea
DARC	3606,0	vt	dly	12	ALG	no ITU	FSK8	125	1750	ALE, “FS20” “TP20” “XT2”
DARC	3629,4	1859	15	12	HOL		A1A			letter “V” and undefined digital signals – area of Amsterdam
DARC	3699,5	ady	dly	12	RUS	P	A1A			beacon “P” - Kaliningrad

DARC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
DARC	3716,3	2015	19	12	CHN	no ITU	FSK8	125	1750	ALE, "140" "3SH"
DARC	3735,0	1700	dly	12	POL		F1B	43	500	idling, South of Warsaw
DARC	3756,0	ady	dly	12	UKR		A3E			"The Pip" - 10 tones – UKR - MIL
DARC	3774,7	2005	08	12	ISR		PSK4	75	2700	MIL-188-110A - hybrid modem
DARC	3782,0	ady	dly	12	POR	CTP	F1B	75	850	POR Navy headquarter Lisbon
DARC	7000,0	vt	dly	12	IRQ	no ITU	FSK8	125	1750	ALE, "SHDTC" "GUNTOC" – US MIL Iraq
DARC	7000,0	vt	dly	12						frequency hopper
DARC	7000,0	vt	dly	12	MEa	no ITU	FSK8	125	1750	ALE, "T1Z130" "T1Z137" "T1Z150" - US MIL
DARC	7000,0	1759	08	12	USA		P0N			uniden Radar – 3 pps, sounds like Codar – 7000 – 7040 kHz
DARC	7001,8	1648	08	12			F1B	100	170	Codan – idents: 8880 - 9128
DARC	7001,8	1022	10	12	TUR		PSK8	2400	2600	Stanag4285 - ship south of Turkey – sea maneuver
DARC	7001,8	1645	24	12	ISR		PSK4	75	2700	MIL-188-110A - hybrid modem
DARC	7003,3	2250	22	12	CHN		PSK4	75	2240	PRC4+4, 8 x 75 Bd, China
DARC	7003,7	0738	18	12	I		PSK4	75	2300	Link11 - ship – Sicily Island
DARC	7007,0	1042	01	12	CIS		F1B	100	150	
DARC	7008,0	vt	dly	12		no ITU	FSK8	125	1750	ALE, "222" "297" "847" "981"
DARC	7010,0	vt	dly	12	GRC	no ITU	FSK8	125	1750	ALE, "RS004A" - NATO NC3A Network
DARC	7011,0	1042	27	12	RUS		F1B	100	250	RUS MIL - Kaliningrad
DARC	7014,0	vt	dly	12	CHN	no ITU	FSK8	125	1750	ALE, "411" – PRC PLA
DARC	7014,0	0724	21	12	RUS		F1B	75	500	RUS MIL - Astrakhan
DARC	7016,0	0630	18	12	RUS		OFDM			OFDM60 – RUS MIL – east of Moscow
DARC	7018,0	vt	dly	12	RUS	REA4	F1A/B	50	1000	REA4 - Russian Airforce Moscow - ident: 00h + 41min
DARC	7020,0	vt	dly	12	GRC	no ITU	FSK8	125	1750	ALE, "BS008C1" "CS004A" - NATO NC3A Network
DARC	7024,0	vt	dly	12						frequency hopper
DARC	7028,5	1320	07	12	CHN		PSK4	8 x 75	2200	PRC4+4, North China
DARC	7038,7	ady	dly	12	UKR	D	A1A			Cluster beacon – Sevastopol RUS Navy – "RCV"
DARC	7038,8	ady	dly	12	RUS	P	A1A			Cluster beacon – Kaliningrad RUS Navy – "RMP"
DARC	7038,9	ady	dly	12	RUS	S	A1A			Cluster beacon – Murmansk RUS Navy – „RIT“
DARC	7039,0	ady	dly	12	RUS	C	A1A			Cluster beacon - Moscow RUS Navy - "RIW"
DARC	7039,2	ady	dly	12	RUS	F	A1A			Cluster beacon - Vladivostok RUS Navy – "RJS"
DARC	7039,3	0650	04	12	RUS	K	A1A			Cluster beacon - Petropavlovsk RUS Navy – "RCC"
DARC	7039,9	ady	dly	12	I	IZ3DVW	A1A			IZ3DVW – beacon not coordinated
DARC	7040,5	vt	dly	12	D	DK0ESD	FSK8	125	1750	ALE, "DK0ESD" - just for info
DARC	7044,4	1500	dly	12	RUS		FSK15	10,8	2700	FSK15, Novosibirsk
DARC	7049,5	vt	dly	12			FSK8	125	1750	ALE - Amateur-net, just for info!
DARC	7054,0	1700	dly	12	RUS		F1B	50	200	RUS MIL - Moscow
DARC	7070,0	1525	23	12	CHN	no ITU	FSK8	125	1750	ALE, "288" "514" - PRC-PLA
DARC	7070,0	1800	31	12	USA		P0N			uniden Radar – 3 pps, sounds like Codar – 7050 - 7090
DARC	7085,0	1919	28	12	RUS		PSK2	120	2600	AT3004D - south of Bryansk
DARC	7089,0	1100	14	12	RUS		PSK2	120	2600	AT3004D - Kaliningrad
DARC	7089,5	1340	dly	12	UKR		F1C			Wxfax – 60 rpm, IOC576, Sevastopol - RUS Naval Base
DARC	7092,0	vt	dly	12	TUR		FSK8	125	1750	ALE, "2010" "2016" - Turkish Red Crescent
DARC	7098,0	0734	15	12	RUS		F1B	75	250	south of Petropavlovsk
DARC	7100,0	1420	dly	12						frequency hopper
DARC	7100,0	1949	11	12	USA		P0N			uniden Radar – 3 pps, sounds like

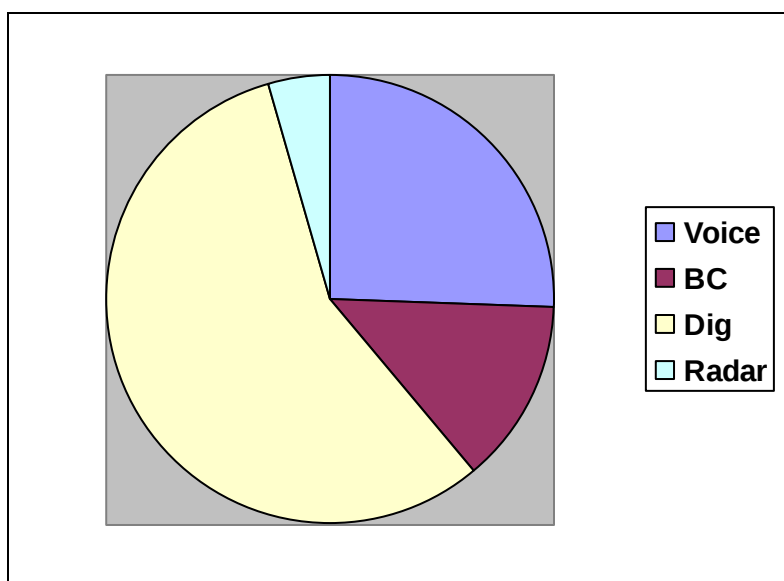
DARC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
										Codar – 7100 – 7160 kHz
DARC	7102,0	vt	dly	12	I	IK2YXT	FSK8	125	1750	ALE, “IK2YXT” - amateur ALE - just for Info
DARC	7104,0	0937	24	12	UKR		PSK2	120	2600	AT3004D - Poltava
DARC	7105,0	2130	18	12	USA		P0N			OTH Radar, 3 pps – uniden – 40 kHz wide
DARC	7111,0	1717	07	12	RUS		F1B	75	250	
DARC	7115,0	0840	17	12	RUS		PSK2	120	2600	AT3004D - Arkhangelsk
DARC	7116,0	1705	24	12	CHN	no ITU	FSK8	125	1750	ALE, “1706” “984” “139”
DARC	7117,0	vt	dly	12						frequency hopper
DARC	7117,0	1357	08	12	UKR		F1C			Wxfax – 60 rpm, IOC576, Sevastopol - RUS Naval Base spurious from 7089,5
DARC	7118,0	0941	17	12	RUS		F1B	75	250	RUS MIL - south-west of Moscow
DARC	7119,0	1043	07	12	RUS		PSK2	120	2600	AT3004D - RUS Navy - Kaliningrad
DARC	7119,0	0618	18	12	RUS		PSK2	120	2600	AT3004D - Vladivostok
DARC	7122,0	vt	dly	12	RUS	RDL	A1A			encrypted msgs
DARC	7122,0	1455	31	12						frequency hopper
DARC	7122,4	vt	dly	12	UKR	various	A1A			UKR Navy Odessa
DARC	7128,0	0900	22	12						frequency hopper
DARC	7140,0	vt	dly	12	UZB	no ITU	FSK8	125	1750	ALE, “1104” “1708” “1703”
DARC	7141,0	1612	25	12		no ITU	FSK8	125	1750	ALE, “7852”
DARC	7142,0	0939	17	12	RUS		F1B	75	250	RUS MIL - Kaliningrad
DARC	7155,0	1602	19	12	UKR		PSK2	120	2600	AT3003D - Sevastopol
DARC	7159,0	1406	22	12	GEO		F1B	75	200	area of Georgia
DARC	7165,0	1620	dly	12	ETH	QRM	A3E			white noise from Radio Ethiopia
DARC	7167,0	1035	10	12	POL		F1B	75	250	Gdansk - Poland
DARC	7172,0	0658	21	12	RUS		F1B	40.5	200	system “Frost1”
DARC	7172,0	1400	23	12	RUS		PSK2	120	2600	AT3004D
DARC	7175,0	1730	dly	12	ETH	QRM	A3E			white noise from Radio Ethiopia
DARC	7176,0	1109	10	12	RUS		F1B	75	250	RUS MIL, area of Moscow
DARC	7186,0	0812	16	12	RUS		PSK2	120	2600	AT3000D – Murmansk
DARC	7188,0	0933	19	12	RUS		F1B	75	250	RUS Navy - Kaliningrad
DARC	7190,0	0944	15	12	RUS		PSK2	120	2600	AT3004D - Kaliningrad
DARC	7193,0	1532	23	12	RUS		F1B	50	200	RUS MIL - Kaliningrad
DARC	7194,0	0816	16	12	RUS		PSK2	120	2600	AT3004D - Kaliningrad
DARC	7196,0	vt	vd	12	RUS		F1B	75	200	RUS MIL Petropavlovsk
DARC	10103,0	vt	dly	12						frequency hopper
DARC	10107,0	vt	dly	12	RUS		A1A	50		50 dots/sec - no ident - Novosibirsk
DARC	10108,2	0400	30	12	PRU	names	LSB			illegal voice traffic, ship
DARC	10112,0	ady	dly	12	TUR		PSK8	2400	2600	Stanag4285 – 600 bps long - Turkish MIL
DARC	10114,0	vt	dly	12						frequency hopper
DARC	10115,0	1750	24	12		no ITU	FSK8	125	1750	ALE, “2001” “2014”
DARC	10120,0	1950	09	12	CYP		P0N			OTH Radar Cyprus, 50 pps
DARC	10121,0	1040	31	12	RUS		F1B	75	250	RUS MIL - area of Kazan
DARC	10122,0	vt	dly	12						frequency hopper
DARC	10127,0	0923	30	12	SRB		F1B	50	500	Serbia
DARC	10128,0	vt	dly	12			FSK8	125	1750	ALE, “UP”
DARC	10130,0	vt	dly	12	USA		F1B	50	850	Maine - USA
DARC	10130,0	vt	dly	12	RUS		F1B	50	500	RUS MIL - Kaliningrad
DARC	10130,0	1706	23	12	CYP		P0N			OTH Radar Cyprus, 50 pps
DARC	10136,0	vt	dly	12	RUS		F1B	50	200	East-RUS
DARC	10138,0	1102	14	12	RUS		MFSK	40	1400	CIS36 - 36 tones - Kazan
DARC	10140,0	vt	dly	12						frequency hopper
DARC	10144,0	0820	28	12	RUS		F1B	75	500	RUS MIL - Moscow
DARC	10145,0	1425	09	12	CYP		P0N			OTH Radar Cyprus, 50 pps
DARC	10145,5	vt	dly	12		CT1REP	FSK8	125	1750	ALE, Radio Amateurs, just for info!
DARC	10146,0	1118	08	12	RUS		PSK4	120	2600	AT3104D - East-Russia
DARC	10148,0	0849	23	12	RUS		F1B	76	250	RUS MIL - Moscow
DARC	10150,0	1630	17	12	CYP		P0N			OTH Radar Cyprus, 25 pps

DARC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
DARC	14000,0	vt	dly	12						frequency hopper
DARC	14010,0	vt	dly	12						frequency hopper
DARC	14036,0	1350	11	12	RUS	REA4	F1B	50	2000	harmonic from 7018 – REA4
DARC	14058,0	vt	dly	12						frequency hopper
DARC	14064,0	0848	23	12	RUS		F1B	75	250	
DARC	14095,0	1125	30	12						frequency hopper
DARC	14116,0	0844	23	12	RUS		F1B	75	250	
DARC	14122,0	0947	24	12	RUS		PSK2	120	2600	AT3004D - Moscow
DARC	14143,0	1111	14	12	LTU		PSK2	120	2600	AT3004D - area of Kaunas
DARC	14192,0	vt	vd	12	RUS		F1B	50	500	RUS Navy - Kaliningrad
DARC	14211,0	0731	15	12	RUS		F1B	50	250	RUS MIL - east of Moscow
DARC	14295,1	ady	dly	12	TJK		A3E			Radio Tajik – 3 rd from 4765
DARC	14326,0	vt	dly	12						frequency hopper
DARC	14345,0	0950	17	12	RUS		P0N			RUS OTH “ABM2” - 50 pps - area of Moscow - 10 kHz wide
DARC	18070,0	0849	03	12	CYP		P0N			OTH Radar Cyprus, 50 pps
DARC	18100,0	vt	dly	12						frequency hopper
DARC	18102,0	vt	dly	12						frequency hopper
DARC	21000,0	vt	dly	12						frequency hopper
DARC	21013,0	0943	20	12						frequency hopper
DARC	21055,0	0840	23	12	CYP		P0N			OTH Radar Cyprus, 50 pps
DARC	21145,8	ady	dly	12	I	IZ3DVW	A1A			uncoordinated beacon
DARC	21265,0	1020	10	12						frequency hopper
DARC	21362,0	1017	10	12						frequency hopper
DARC	21400,0	0915	10	12	CYP		P0N			OTH Radar Cyprus, 50 pps
DARC	21437,0	0932	10	12						frequency hopper

The intruder situation in Region 1 in December 2009
- exclusive bands only (7, 14, 21) -
Voice traffic: More than 50 % from Africa.
Digital intrusions are including CW, F1B, MFSK, PSK and F1C (Fax).
BC only on 7 and 14 MHz.

Voice: 26 % - BC: 13 % - Digital: 58 % - Radar: 5 %

compiled by DK2OM



IRTS – Ireland – EI4GXB (Ger)

KARS – Kuwait – 9K2RR (Faisal)

MRASZ – Hungary - HA7PL (Laci)

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	DETAILS
MRASZ	7000,0	VT	VD	12	FSK8 (ALE)	USA	UiMUX	125	1750	US ARMY net. (GUNTOC, SHDTC, R652, R803, R826, T1Z130, T1Z137, T1Z150, T28CAB, ...)
MRASZ	7008,0	VT	VD	12	FSK8 (ALE)	Ui	UiMUX	125	1750	2222 SOUNDED
MRASZ	7010,0	VT	VD	12	FSK8 (ALE)	Ui	UiMUX	125	1750	CS-RS UNID NET
MRASZ	7014,0	VT	VD	12	FSK8	Ui	ALE	125	1750	YW3 CALLS TXZ5 UNID
MRASZ	7014,0	VT	VD	12	FSK8	NIG	ALE	125	1750	896-737
MRASZ	7020,0	VT	VD	12	FSK8 (ALE)	Ui	UiMUX	125	1750	CS-RS UNID NET NEW CALLSIGN TYPE OCCURED: BS008C1
MRASZ	7020,0	VT	VD	12	FSK8 (ALE)	GER	UiMUX	125	1750	
MRASZ	7024,0	VT	VD	12	FSK8 (ALE)	Ui	UiMUX	125	1750	2222 SOUNDED
MRASZ	7026,0	VT	VD	12	FSK8 (ALE)	Ui	UiMUX	125	1750	224-314 UNID
MRASZ	7045,0	VT	VD	12	FSK8 (ALE)	Ui	UiMUX	125	1750	2002-200 UNID (2001-201)
MRASZ	7050,0	VT	VD	12	FSK8 (ALE)	Ui	UiMUX	125	1750	822-202
MRASZ	7051,0	VT	VD	12	FSK8 (ALE)	Ui	UiMUX	125	1750	101-NET UNID
MRASZ	7055,0	VT	31	12	FSK8 (ALE)	GER	UiMUX	125	1750	BUNDESPOLIZEI SEE. ZLST HQ CALLS ZBOR.
MRASZ	7070,0	VT	VD	12	FSK8 (ALE)	GEO	UiMUX	125	1750	244-288 NET POSSIBLE GEORGIAN.
MRASZ	7071,0	VT	VD	12	FSK8 (ALE)	GER	UiMUX	125	1750	BUNDESPOLIZEI SEE (WEAK)
MRASZ	7076,0	20:43	16	12	FSK8 (ALE)	GER	UiMUX	125	1750	BUNDESPOLIZEI SEE. ZLST HQ CALLS ZPRI
MRASZ	7080,0	VT	VD	12	FSK8 (ALE)	ALB	UiMUX	125	1750	ALBANIAN MoPO. 5810 SOUNDING
MRASZ	7083,0	VT	VD	12	FSK8 (ALE)	Ui	UiMUX	125	1750	3 FIGURES NET. (146, 246)
MRASZ	7086,0	19:56 19:33	22 23	12	FSK8 (ALE)	GER	UiMUX	125	1750	BUNDESPOLIZEI SEE. ZLST HQ CALLS ZHOH, ZSHO, ZHI?
MRASZ	7092,0	VT	VD	12	FSK8 (ALE)	Ui	UiMUX	125	1750	4001, 2001 SUBNETS LOTS OF CALLSIGNS. F001 NET.
MRASZ	7095,0	VT	VD	12	FSK8 (ALE)	Ui	UiMUX	125	1750	110-NET UNID (1101, 1102, 1702, 1703, 1706, 1709)
MRASZ	7095,0	VT	VD	9	FSK8 (ALE)	Ui	UiMUX	125	1750	ORTKHON SOUNDED.
MRASZ	7096,0	VT	VD	12	FSK8 (ALE)	Ui	UiMUX	125	1750	101-NET UNID (102, 103, 104, 105, 107, 109, 113, 115)
MRASZ	7098,0	VT	VD	12	FSK8 (ALE)	Ui	UiMUX	125	1750	664-304
MRASZ	7102,0	VT	VD	12	FSK8 (ALE)	Ui	UiMUX	125	1750	
MRASZ	7104,0	VT	VD	12	FSK8 (ALE)	Ui	UiMUX	125	1750	104-845 UNID (153, 168, 132, 134, 145, 198, 264)
MRASZ	7106,0	19:56 19:01 19:15	11 17 22	12	FSK8 (ALE)	GER	UiMUX	125	1750	BUNDESPOLIZEI SEE. ZLST HQ CALLS (zoll leitstelle Cuxhaven) ZHEL, ZSHO, ZBOR
MRASZ	7106,0	VT	VD	12	FSK8	UK	UiMUX	125	1750	UK FOREST MOORE TASCOMM HF

CLUB	kH _z	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	DETAILS
					(ALE)					HQ. XSS CALLSIGN
MRASZ	7107,0	VT	VD	12	FSK8 (ALE)	Ui	UiMUX	125	1750	437843 SOUNDED
MRASZ	7111,0	VT	VD	12	FSK8 (ALE)	Ui	UiMUX	125	1750	171-129?
MRASZ	7115,0	VT	VD	12	FSK8 (ALE)	Ui	UiMUX	125	1750	1 SOUNDED.
MRASZ	7116,0	VT	VD	12	FSK8 (ALE)	Ui	UiMUX	125	1750	171-312, 269-979
MRASZ	7116,0	VT	VD	12	FSK8 (ALE)	Ui	UiMUX	125	1750	101-NET UNID (102, 103, 104, 105, 107, 109, 113, 115)
MRASZ	7140,0	VT	VD	12	FSK8 (ALE)	Ui	UiMUX	125	1750	297-391,493, 485, 595 UNID
MRASZ	7140,0	VT	VD	12	FSK8 (ALE)	Ui	UiMUX	125	1750	101-NET UNID (102, 103, 104, 105, 107, 109, 113, 115)
MRASZ	7165,0	VT	VD	12	FSK8 (ALE)	ALB	UiMUX	125	1750	ALBANIAN MoPO. 5810 SOUNDING
MRASZ	7165,0	VT	VD	12	FSK8 (ALE)	Ui	UiMUX	125	1750	415-130, 450-805 UNID
MRASZ	7197,0	VT	VD	12	FSK8 (ALE)	TUR	UiMUX	125	1750	Red Crescent TURKEY 4 FIGURES NET. CALLSIGNS: 8161, 8211, 8351, 9850, 9855, 3000, 3062, 3161, 3251, 3421, 3541
MRASZ	7197,0	VT	VD	12	FSK8 (ALE)	Ui	UiMUX	125	1750	123456 SOUNDED.
MRASZ	7197,0	VT	VD	12	FSK8 (ALE)	Ui	UiMUX	125	1750	823-545

OEVS_V – Austria – OE3DMA (Alex)

REP – Portugal – CT4AN (Jose Francisco)

SOC	KH _z	UTC	DD	MM	ITU	IDENT	MODE	DETAILS
REP	3500	01.00	07	12	E		J3E-U	Spanish fishers boat to boat
REP	3500	08.10	14	12	MRC		J3E-U	Marocain fishers
REP	3502	07.05	13	12	MRC		J3E-U	Marocos Fishery
REP	3515	19.55	16	12	E		J3E-U	Spanish Fishery referring La Coruna
REP	3515	08.00	09	12	E		J3E-U	Fishers boat to home
REP	3525	07.50	01	12	E		J3E-U	Fishers boat to home
REP	3545	16.45	09	12	E		J3E-U	Spanish Fishery - Murcia harbour
REP	3550	07.00	12	12	F		A3E-AM	French Amateurs daily traffic INFRINGE IARU BAND PLAN
REP	3550	18.15	09	12	E		J3E-U	Spanish Fishers - Catalan language
REP	3561	19.40	02	12	KRE		8K00 A3EGN	BC Voice of Korea - unid language-music
REP	3565	21.05	03	12	E		J3E-U	Spanish Fishery - Catalan lang.
REP	3580	22.35	11	12	E		J3E-U	Spanish Fishers - Biscaya gulf
REP	7110	02.00	13	12	ETH		8K00 A3EGN	BC R.Ethiopia politic talks music
REP	7125	07.10	05	12	GUI		8K00 A3EGN	BC Radio Conakry english and music
REP	7130	21.15	03	12	BLR		8K00 A3EGN	BC Radio Belarus Russian talks
REP	7140	19.50	06	12	RUS		8K00 A3EGN	BC Radio Ytkurk russ. lang.
REP	7145	01.15	11	12	LAO		8K00 A3EGN	BC Radio Laos english announc. music
REP	7145	20.05	07	12	SOM		8K00 A3EGN	BC Radio Harghesia music talks

SOC	KHz	UTC	DD	MM	ITU	IDENT	MODE	DETAILS	
REP	7150	23.50	14	12	KRE		8K00 A3EGN	BC RadioKorea talks	
REP	7175	19.55	15	12	ERI		8K00 A3EGN	BC Voice of Broad Masses - talks in arabic and musics	

RSGB - Great Britain – G4BOH (Chris)

SRAL – Finland – OH2BLU (Pekka)

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	REMARKS
SRAL	7010,0	0930-1130	9,17	12		UiMUX	J7D		
SRAL	7011,0	1030-1100	27	12		UiPRT	F1B	250	
SRAL	7018,0	0630-0800	3	12		UiPRT	F1B	250	
SRAL	7018,0	1100-1830	*	12	RUS	REA4	F1B	1000/500	Days 1 to 13, 17, 18, 27, 29
SRAL	7038,7	h24	1-20	12	UKR	D	A1A		Sevastopol
SRAL	7038,8	0700-1300	dly	12	RUS	P	A1A		Kaliningrad
SRAL	7038,9	h24	dly	12	RUS	S	A1A		Severomorsk
SRAL	7039,0	h24	dly	12	RUS	C	A1A		Moscow
SRAL	7054,0	0600-0800	dly	12	RUS	UiPTR	F1B	200	25 Hz dotter
SRAL	7054,0	1800-2100	dly	12	RUS	UiPTR	F1B	200	25 Hz dotter
SRAL	7056,0	1130	5	12	RUS	TVOA	A1A		Calls 8DDE etc.
SRAL	7076,0	0700-0830	5	12		UiPTR	F1B	250	
SRAL	7089,0	0900-1030	4	12		UiMUX	J7D		
SRAL	7098,0	0730-1030	*	12		UiPTR	F1B	250	Days 13, 15, 17
SRAL	7100,0	1800-2100	dly	12	KRE	VoKorea	A3E		
SRAL	7110,0	1200-2100	dly	12	ETH	R Eth.	A3E		
SRAL	7111,0	0830-0900	9	12		UiPTR	F1B	250	
SRAL	7118,0	0830-1100	*	12		UiPTR	F1B	228	Days 4, 22, 26, 27
SRAL	7119,0	0830-1400	8-11	12		UiMUX	J7D		
SRAL	7125,0	1730-2030	*	12	GUI	BC	A3E		8 days
SRAL	7130,0	1100	9	12		UiCW	A1A		3F
SRAL	7140,0	0700-1400	dly	12	KRE	R. Korea	A3E		
SRAL	7142,0	0900-1230	*	12		UiPTR	F1B	250	Days 11, 12, 17
SRAL	7149,0	0830-0930	1, 2	12		UiPTR	F1B	500	
SRAL	7159,0	0800-1030	2, 10	12		UiPTR	F1B		
SRAL	7165,0	0500-0600	dly	12	ETH	R ETH	A3E		Some times jammed
SRAL	7165,0	1200-1830	dly	12	ETH	R ETH	A3E		Some times jammed
SRAL	7167,0	0830-1030	9, 10	12		UiPTR	F1B	250	
SRAL	7172,0	0900-1100	7	12		UiPTR	F1B	200	20 Hz dotter

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	REMARKS
SRAL	7175,0	0500-0600	dly	12	ERI	VoBME	A3E		Some times jammed
SRAL	7175,0	1300-2000	dly	12	ERI	VoBME	A3E		Some times jammed
SRAL	7176,0	1020	10	12		UiPTR	F1B	250	
SRAL	7188,0	0730-1230	*	12		UiPTR	F1B	228	Days 4, 6, 15, 31
SRAL	7195,0	0730	6	12	RUS	RGV82	A1A		
SRAL	7196,0	0700-1100	1, 23	12		UiPTR	F1B	200	
SRAL	7198,0	1230-1300	3	12		UiMUX	J7D		
SRAL	7200,0	1200-2100	dly	12	SDN	R Sudan	A3E		
SRAL	7200,0	0300-1200	dly	12	RUS	R Rossii	A3E		
SRAL	14295,1	0630-1300	dly	12	TJK	R Tojikiston	A3E		3f 4765 kHz, Yangiyul TX

USKA – Switzerland – HB9CET (Peter)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
USKA	7000.0	1654	02	12		T1Z150	MFSK8	125	1750	MIL 188-141A, ALE
USKA	7000.0	1741	02	12		T1Z	MFSK8	125	1750	MIL 188-141A, ALE
USKA	7000.0	1715	03	12		T1Z137	MFSK8	125	1750	MIL 188-141A, ALE
USKA	7000.0	1727	03	12		T1Z130	MFSK8	125	1750	MIL 188-141A, ALE
USKA	7000.0	1737	03	12		SHTOC	MFSK8	125	1750	MIL 188-141A, ALE
USKA	7000.0	1741	03	12		GUNTOC	MFSK8	125	1750	MIL 188-141A, ALE
USKA	7000.0	1841	03	12		GUN	MFSK8	125	1750	MIL 188-141A, ALE
USKA	7000.0	1854	03	12		T28CAB	MFSK8	125	1750	MIL 188-141A, ALE
USKA	7000.0	1924	03	12		T28	MFSK8	125	1750	MIL 188-141A, ALE
USKA	7000.0	1637	08	12		T3Z158	MFSK8	125	1750	MIL 188-141A, ALE
USKA	7000.0	1705	08	12		T2Z	MFSK8	125	1750	MIL 188-141A, ALE
USKA	7000.0	1604	10	12			J3E-U			spanish, several stations often
USKA	7000.0	1655	10	12		T3Z	MFSK8	125	1750	MIL 188-141A, ALE
USKA	7000.0	1906	12	12		T2Z104	MFSK8	125	1750	MIL 188-141A, ALE
USKA	7000.0	1049	13	12			J3E-U			italian, no idents
USKA	7000.0	1454	30	12			J3E-U			english, short overs
USKA	7000.25	1316	01	12			N0N			long-lasting carrier
USKA	7001.8	1116	10	12			G7D	2400bps	3000	Stanag 4285
USKA	7002.0	1601	10	12			J3E-U			unid language, serveral stations
USKA	7009.3	1507	30	12			QPSK	75	2250	4+4 Parallel Tone Modem
USKA	7010.0	1528	01	12		RS0013A	MFSK8	125	1750	MIL 188-141A, ALE daily
USKA	7010.0	1151	02	12		CS002	MFSK8	125	1750	MIL 188-141A, ALE daily
USKA	7010.0	1401	16	12		RS009	MFSK8	125	1750	MIL 188-141A, ALE daily
USKA	7011.0	1048	27	12			F1B	100	250	unid
USKA	7014.0	1144	01	12			F1B	75	500	unid
USKA	7014.0	2325	14	12			J7D	12x120	2600	PSK2: CIS 12 = AT3004D
USKA	7018.0	1303	01	12	RUS	REA4	F1B	50	500	REA4, also 1000 Hz sh
USKA	7018.0	1112	02	12	RUS	REA4	F1B	50	1000	REA4, also 500Hz sh
USKA	7020.0	1633	01	12		853	MFSK8	125	1750	MIL 188-141A, ALE
USKA	7020.0	0930	24	12		CS004A	MFSK8	125	1750	MIL 188-141A, ALE
USKA	7036.0	1607	10	12			F1B	50	250	unid
USKA	7038.7	1308	01	12	UKR	D	A1A			Beacon D Sevastopol daily
USKA	7038.8	1305	01	12	UKR	P	A1A			Beacon P Kaliningrad daily
USKA	7038.9	1347	01	12	RUS	S	A1A			Beacon S Murmansk daily
USKA	7039.0	1306	01	12	RUS	C	A1A			Beacon C Moscow daily
USKA	7039.3	1541	20	12	RUS	K	A1A			Beacon K Petropavlovsk daily
USKA	7043.0	1546	01	12	RUS		?	?	2600	curious signal daily
USKA	7047.0	1248	21	12			J7D	12x120	2600	PSK2: CIS 12 = AT3004D
USKA	7054.0	1931	01	12			F1B	50	200	unid daily
USKA	7076.0	1605	09	12			MFSK8	125	1750	MIL 188-141A, ALE (no id)
USKA	7080.0	1611	20	12			J3E-U			unid network, several stations

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
USKA	7083.0	1507	23	12			F1B	40.5	200	CIS 81
USKA	7085.0	1436	23	12			J7D	12x120	2600	CIS 12 = AT3004D
USKA	7089.0	0929	14	12			J7D	12x120	2600	PSK2: CIS 12 = AT3004D
USKA	7089.0	1117	21	12			J7D	12x120	2600	PSK2: CIS 12 = AT3004D
USKA	7089.9	1411	01	12			F1C	60rpm		Wefax 60rpm IOC 576 daily
USKA	7098.0	1417	07	12			F1B	75	250	unid
USKA	7100.0	1935	01	12			A3E			BC daily
USKA	7104.0	0936	24	12			J7D	12x120	2600	PSK2: CIS 12 = AT3004D
USKA	7105.0	2026	12	12			A3E			IM ³ BC daily
USKA	7110.0	1441	01	12			A3E			BC daily
USKA	7111.0	1948	07	12			F1B	75	250	unid
USKA	7115.0	1648	16	12			J7D	12x120	2600	CIS 12 = AT3004D
USKA	7118.0	1039	26	12			F1B	75	250	unid often
USKA	7119.0	1141	07	12			J7D	12x120	2600	PSK2: CIS 12 = AT3004D
USKA	7122.0	1943	07	12	RUS		F1B	75	250	unid
USKA	7125.0	1937	01	12			A3E			BC daily
USKA	7140.0	1541	02	12		1101	MFSK8	125	1750	MIL 188-141A, ALE
USKA	7140.0	1543	02	12		171	MFSK8	125	1750	MIL 188-141A, ALE
USKA	7140.0	1406	07	12			F1B	75	500	unid
USKA	7145.0	1358	01	12			F1B	75	500	unid
USKA	7165.0	1339	01	12			A3E			BC daily
USKA	7175.0	1410	01	12			A3E			BC daily
USKA	7175.0	1612	08	12			Noise			Jammer often
USKA	7180.0	2329	14	12			A3E			BC
USKA	7183.0	2219	22	12			F1B	100	500	unid
USKA	7188.0	1059	27	12			F1B	75	250	unid
USKA	7200.0	1439	01	12			A3E			BC daily
USKA	10140.0	1448	09	12			P0N	50pps	20 kHz	OTHR - up to 10160 often
USKA	14122.0	0939	24	12			J7D	12x120	2600	PSK2: CIS 12 = AT3004D often
USKA	14141.0	1313	14	12			J7D	12x120	2600	PSK2: CIS 12 = AT3004D
USKA	18075.0	1057	21	12			P0N	25pps	20 kHz	OTHR from 18055 kHz up

Veron 1 – Netherlands – PA0GRU (Dick)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	DETAILS
VERON	3548,0	15.44	3	12		UiPtr	F1B	200	Revs
VERON	3548,0	20.30	8	12		UiPTR	F1B		Revs
VERON	3554,0	15.42	3	12	TUR	UiMux	G7D		MPSK-8, Stanag
VERON	3588,0	15.38	3	12		UiMux	J7D		MPSK-4
VERON	3606,0	19.10	22	12		UiPTR	F1B		Revs
VERON	3649,0	15.35	3	12	RUS	P	A1A		Beacon Kaliningrad
VERON	3732,0	15.26	3	12		UiMux	J7D		MPSK-8; Stanaglike; 1k8 wide
VERON	3781,5	17.45	12	12	POR	UiPtr	F1B	850	Printer
VERON	7011,0	10.17	27	12		UiPTR	F1B		Revs
VERON	7017,5	15.56	2	12	RUS	UiPtr	F1B	1000	Revs; also day 3, 15.22 UTC
VERON	7018,0	19.01	16	12		UiPtr	F1B	1000	Revs
VERON	7018,0	vt	vd	12	CIS	UiPTR	F1B		Revs
VERON	7038,7	15.54	2	12	UKR	D	A1A		Beacon Sevastopol; also day 3, 15.21 UTC
VERON	7038,8	vt	vd	12	RUS	P	A1A		P-beacon
VERON	7038,9	15.55	2	12	RUS	S	A1A		Beacon Murmansk; also day 3, 11.
VERON	7038,9	15.46	11	12	?	J	A1A		Beacon
VERON	7039,0	15.54	2	12	RUS	C	A1A		Beacon Moscow; also day 3, 11, 12.
VERON	7039,0	vt	vd	12	RUS	C	A1A		C-beacon
VERON	7054,0	19.15	4	12	RUS	UiPtr	F1B	200	Revs
VERON	7054,0	vt	vd	12	CIS	UiPTR	F1B		Revs/Ptr
VERON	7110,0	15.45	2	12	UGA	R.Uganda	A3E		s7; also day 3
VERON	7110,0	15.41	11	12	ETH	R.Ethiopia	A3E		Speech, s9+10; also day 19.
VERON	7111,0	09.31	9	12		UiPtr	F1B		Printer
VERON	7112,0	15.45	2	12		UiJAM	JAM		White noise; 11k wide; alsoday 3,

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	DETAILS
									19.
VERON	7118,0	09.30	9	12	RUS	UiMux	J7D		12 MPSK-AT 3004-D
VERON	7118,0	09.31	9	12	E	UiILL	J3Eu		male, Spanish language
VERON	7122,0	19.04	29	12	UKR	MM65	A1A		RJY de MM65 qsv K= Navy Odessa QSD
VERON	7122,0	19.05	29	12	UKR	Q65X	A1A		I4CS de Q65X qsv K=hand keying QSD
VERON	7122,0	19.08	29	12	UKR	Q65X	A1A		OK AR (going QRT)
VERON	7165,0	15.40	2	12	ETH	VDA	A3E		Speech; s8; also day 3, 11.
VERON	7165,0	16.00	19	12		UiBC	A3E		music and speech
VERON	7173,0	10.36	11	12		UiPtr	F1B	250	Revs
VERON	7175,0	15.38	2	12	ERI	VBME	A3E		Amharic speech & music;s9;also day 3,11,19
VERON	7175,0	17.32	12	12		UiJAM	JAM		White noise; 10k wide
VERON	7175,0	15.26	19	12	ETH	VDA	A3E		Speech; s9+10
VERON	7175,0	19.08	4	12	ERI	VBME	A3E		music and speech
VERON	7180,0	21.08	19	12	KRE	VOK	A3E		Speech; s6
VERON	7188,0	vt	vd	12		UiPTR	F1B		Revs
VERON	7200,0	15.10	3	12	SDN	R.Omdur man	A3E		Arabic music; s8; also on day 19.
VERON	7200,0	18.58	8	12		UiBC	A3E		music and speech, Asiatic (India?)
VERON	10100,8	13.16	3	12	D	UiPtr	F1B	500	DWD; several days, legal
VERON	10112,0	13.19	3	12	TUR	UiMux	J7D		MPSK-8, Stanag; 2k7 wide; also day 11.
VERON	10130,0	vt	vd	12		UiPTR	F1B		Revs/Ptr
VERON	10140,0	14.25	9	12		OHTR	PON		radar, 10136-10155 KHz wide
VERON	10144,0	12.41	24	12		UiPTR	F1B		Ptr
VERON	14000,0	10.35	29	12		UiCW	A1A		5L
VERON	14015,0	11.37	3	12		OTHR	PON		50 pps; also day 10, 11.31 UTC.
VERON	14035,0	12.52	10	12		UiMUX	F7B		Revs (2 channels)
VERON	14036,9	11.34	10	12		UiPtr	F1B	2k	Printer
VERON	14113,0	12.41	12	12		UiMux	J7D		MPSK-8
VERON	14142,0	10.28	14	12	RUS	OHTR	PON		ABM-2
VERON	14234,0	15.02	13	12		UiMux	J7D		MPSK-8
VERON	21230,0	11.31	10	12					frequency hopper
VERON	21243,0	14.17	9	12					frequency hopper

Veron 2 – Netherlands – PA0GRU (Dick)

SOC	kHz	UTC	DD	MM	ITU	IDENT	Mode	SHIFT	DETAILS
VERON	7014,0	08.23	9	12		UiPtr	F1B	250	Ptr
VERON	7018,0	08.08	VD	12	RUS	REA4	F1B	1000	21.12 utc, Ptr, 11 days
VERON	7036,3	07.23	VD	12	RUS	UiMUX	J7D		12 MPSK, 21.14 utc, 9 days
VERON	7038,7	06.26	VD	12	UKR	D	A1A		21.18 utc, beacon, 11 days
VERON	7038,8	07.14	VD	12	RUS	P	A1A		15.58 utc, beacon, 4 days
VERON	7038,9	07.14	VD	12	RUS	S	A1A		15.58 utc, beacon, 10 days
VERON	7039,0	06.46	VD	12	RUS	C	A1A		21.18 utc, beacon Moscow, 12 days
VERON	7039,2	07.15	VD	12	RUS	F	A1A		21.24 utc, beacon, 7 days
VERON	7039,3	07.23	VD	12	RUS	K	A1A		
VERON	7054,0	06.47	VD	12	RUS	UiPtr	F1B	250	22.05 utc, Revs, 10 days
VERON	7098,0	06.49	15	12		UiPtr	F1B	250	Ptr
VERON	7122,3	16.01	29	12		JJ74	A1A		to 6JNW: proc
VERON	7122,4	07.03	2	12	UKR	NFFQ	A1A		to J7YY: proc
VERON	7122,4	07.05	2	12		J7YQ	A1A		to 1BTB: proc
VERON	7122,4	09.11	3	12		8HQY	A1A		XXX 17773 NEGOWIRKYJ 8432
VERON	7122,4	07.09	8	12		UiCW	A1A		proc: (handsent morse) also 19/12
VERON	7122,4	10.03	9	12		?C6A	A1A		to 2AKO: proc
VERON	7122,4	10.05	9	12		ZYXA	A1A		proc:
VERON	7122,4	20.21	9	12		HGZU	A1A		proc:
VERON	7122,4	07.01	12	12		M9TU	A1A		proc:
VERON	7122,4	07.03	12	12		FOOU	A1A		to AU5B:proc
VERON	7122,4	07.02	15	12		C8PN	A1A		proc: (handsent morse)
VERON	7122,4	19.03	15	12		Z4NT	A1A		to 5YAE: proc

SOC	kHz	UTC	DD	MM	ITU	IDENT	Mode	SHIFT	DETAILS
VERON	7122,4	19.05	15	12	UKR	CBPN	A1A		to M66M,5LKN,proc:
VERON	7122,4	07.01	16	12		UiCW	A1A		proc (handsent morse)
VERON	7122,4	07.02	17	12		3ZFS	A1A		to NLTK:proc
VERON	7122,4	07.03	18	12		TPOB	A1A		07.09 utc, to XBRU ZOCG:proc
VERON	7122,4	07.03	22	12		VRDN	A1A		to DSKL: proc
VERON	7122,4	07.05	22	12		9UDV	A1A		to RZBB: proc
VERON	7122,4	10.06	22	12		9UPV	A1A		to W8RB :PROC
VERON	7122,4	07.05	24	12		UiCW	A1A		v,s, proc
VERON	7122,4	07.03	28	12		AECQ	A1A		to JRM3:proc
VERON	7122,4	19.02	28	12		NOIK	A1A		proc
VERON	7122,4	19.03	28	12		CM9K	A1A		to XXTO, proc
VERON	7122,4	16.02	29	12		Z65X	A1A		to XPJX:proc
VERON	7122,4	13.01	30	12		AZLH	A1A		proc
VERON	7122,4	13.03	30	12		YOM1	A1A		TO CENT,OMLC,:proc, v,s
VERON	7122,4	16.05	30	12		YOM1	A1A		to CENT,OMZC,:proc, v,s
VERON	7122,4	07.54	31	12		UiCW	A1A		
VERON	7183,0	06.32	22	12		UiPtr	F1B	500	Revs
VERON	7200,0	07.22	12	12		UiBC	A3E		music

Veron 3 – Netherlands – PA0GRU (Dick)

SOC	kHz	UTC	DD	MM	ITU	IDENT	Mode	DETAILS
VERON	7000,0	10.35	13	12	E	UiILL	J3eU	Spanish, two male voices
VERON	7100,0	21.02	4	12	E	UiILL	J3eU	Spanish, two male voices
VERON	7113,0	08.30	17	12	E	UiILL	J3eU	Spanish, two male voices
VERON	7130,0	20.40	7	12	E	UiILL	J3eU	Spanish, two male voices
VERON	7172,0	08.44	28	12	E	UiILL	J3eU	Spanish, two male voices

IARUMS Region 1

Many thanks for your interest!

A Happy and Healthy New Year
from Wolf, DK2OM and Uli, DJ9KR to you and all your beloved ones!

The monitoring team of IARU Region 1

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