



# Monitoring System

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The monthly newsletter for Region 1

## May 2012

The 23 members of the IARUMS Region 1 Monitoring Team:



## Acknowledgements

++ ARI: DH7SA – Salvatore ++ ARSK: 5Z4NU - Ted ++ ASTRA: DL1BDF – Mustapha ++ DARC: DJ9KR – Uli ++  
++ ERASD: SU1SA – Sayed ++ IRTS: EI4GXB - Ger ++ KARS: 9K2RR – Faisal ++ MARL: 9H1M – Dominic ++  
++ MRASZ: HA7PL - Laci ++ NARS: 5N9AYM – Yusuf ++ NRRL: LA4EU – Hans Arne ++ OEVSV: OE3GSA – Gerd ++  
++ PZK: SP3SUZ – Wladyslaw ++ RAL: OD5MV – Raja ++ REP: CT4AN – Jose ++ RSGB: G4BOH - Chris ++  
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++ USKA: HB9CET - Peter ++ VERON: PA2GRU - Dick ++ ZRS: S56ZDB – Darko ++ G3VZV – Graham (satellite) ++  
++ TG9ADV – Jorge (Co-ordinator Region 2) ++ VK3MV – Peter (Co-ordinator Region 3) ++ DF8FE – (Webmaster assis.) ++  
++ DL8AAM (ALE) ++ DJ7KG (BUOYS) ++ DF5SX (BC) ++ DARC (server support) ++ OD5TE (Hani) ++  
++ VE6SH – Tim (IARU President) ++ PB2T – Hans (IARU R1 President) ++ 9A5W - Nikola (EC-IARU-R1) ++  
++ PTTs: German (BNetzA), BAKOM (Switzerland), OFCOM (UK) ++ SK6AW – DX-Cluster ++

## Part 1: News and Infos

### 1. 14295.1 kHz – Radio Tajik

The harmonic transmission from Radio Tajik on 4765 kHz is still active on 14295. kHz daily and all day. The complaints of BAKOM, Ofcom, the German PTT and PA2GRU have not been observed.

### 2. CODAR on 14070 – 14125 kHz

After 5 months it was possible to find out the location of the CODAR (= Coastal Radar). Many thanks to the German PTT (BNetzA), especially to Mr.E.G., who contacted other PTTs for bearings. The location of the CODAR is North East India, Bay of Bengal. Only few amateurs from Thailand, Australia, UK (G4BOH), Switzerland (HB9CET) and India tried to help me. I was disappointed that I even did not get any help by German HAMs. In the meantime an official complaint was filed by the German PTT. The CODAR is still active!

### 3. Only few MIL-traffic

We observed less digital MIL-traffic on our bands than in April. The conditions on the upper bands increased. So I think our MIL “friends” were looking for other frequencies. **REA4 on 7018.0 F1B was not active in April and May.**

### 4. Brazilian CBers on 28 MHz

Brazilian CBers in AM were daily found on 28000 – 28325 kHz. Some of them seem to be drunken. Few years ago I sent a complaint to the Brazilian PTT ANATEL, but never got any answer.

### 5. North Korean diplo traffic on 21 MHz

I found North Korean diplo traffic on 21001.5 kHz. Parameters: F1B bursts 600 Bd, 600 Hz shift. Name of the ARQ-system: DPRK-FSK 600. Location: North Korean embassy Moscow.

### 6. MFA Cairo diplo traffic on 21 MHz

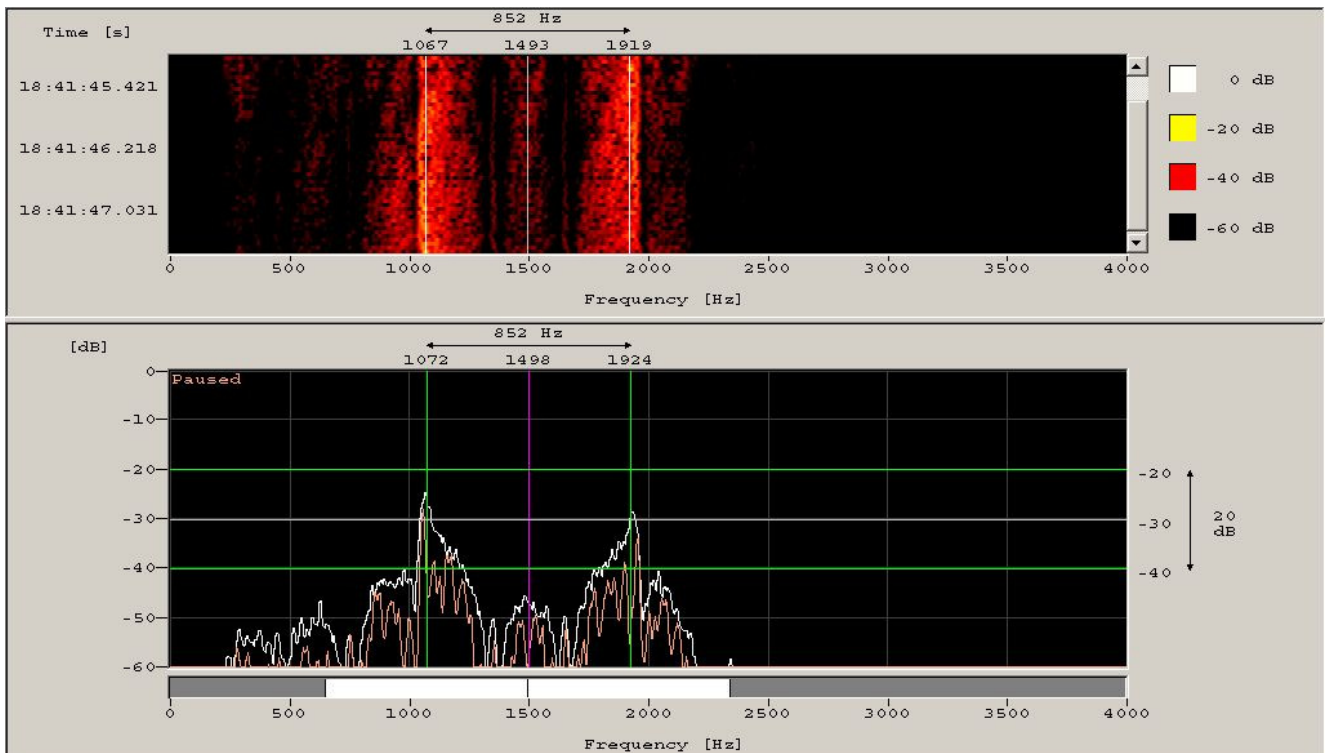
MFA (Ministry for Foreign Affairs) Cairo was transmitting in Sitor A semiduplex on 21016.7 kHz on May 18<sup>th</sup> at 0800 utc. They are also using Codan9001 after the Sitor A traffic.

### 7. Clansman on 28 MHz

“Clansman” is the name of a F1B system, which is used by the British military. Parameters: 300 Bd and 850 shift. The system was daily transmitting on 28181.5 kHz and well audible in Germany every late noon. Our bearings were showing South America. I think the emissions are coming from the Falkland Islands. (aka: Las Malvinas)

**Screenshot: Clansman sonagram and spectrogram with Wavcom W61 (DK2OM)**

soundfile: <http://www.iarums-r1.org/iarums/sound/f1b-clans.wav> (recording by DK2OM)



8. Homepage IARU Region 1
- Homepage IARUMS Region 1
- Homepage IARUMS Region 2
- Homepage IARUMS Region 3
- Intruderlogger Region 1

<http://www.iaru-r1.org/>  
<http://www.iarums-r1.org>  
<http://www.iaru-r2.org/>  
<http://www.iaru-r3.org/ms/>  
<http://peditio.net/intruder/bluechat.cgi>

## Part 2: Detailed reports of the national Co-ordinators

DD = day \*\*\* MM = month \*\*\* dly = daily \*\*\* vt = various times \*\*\* vd = various days \*\*\* BD = Baud \*\*\* SH = shift \*\*\* SP = spacing \*\*\* Mode = mode of transmission \*\*\* A3E = AM \*\*\* A1A = CW \*\*\* J3E-U = USB \*\*\* J3E-L = LSB \*\*\* FSK (F1B) = frequency shift keying \*\*\* PSK = phase shift keying \*\*\* OFDM = orthogonal frequency division multiplex ALE (MIL-188-141A) = automatic link establishment \*\*\* MUX = multiplex \*\*\* Ui (unid) = unidentified \*\*\* Illicit = illegal \*\*\* UiLL = 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 \*\*\* pps = pulses per second (earlier radar systems) \*\*\* sps = sweeps/sec (radar systems) \*\*\* FMCW = frequency modulated continuous wave (OTH and coastal Radars)

### ARSK MONITORING OVERVIEW FOR MAY 2012

Nothing of particular interest was heard apart from the usual broadcast stations on 40 meters, Khartoum, Addis Ababa and Eritrea.

E.H.M. Alleyne, 5Z4NU  
ARSK National IARUMS Co-ordinator

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### ARSK – Kenya – 5Z4NU (Ted)

H'd by	kHz	UTC	dd	mm	ITU	Identity	Mode	Details
ARSK	7000.0	1400	dly	5	?	UiPHONE	J3E	Kiswahili, military?
ARSK	7050.0	0638	26	5	DRC?	UiPHONE	J3E	Unidentified language.
ARSK	7075.0	0635	26	5	DRC?	UiPHONE	J3Eu	Unidentified language.
ARSK	7110/0	vt	*	5	ERI?	VOBM?	A3E	VoBM, Eritrea? *6,7,8,
ARSK	7120.0	0645	10	5	ERI?	VOBM?	A3E	VOBM ?
ARSK	7175.0	vt	var	5	VoBM	UiBC	A3E	VoBM, Eritrea
ARSK	7180.0	vt	var	5	?	UiBC	A3E	Possibly VOBM or Addis Ababa.
ARSK	7200.0	vt	dly	5	SDN	Khartoum	A3E	Broadcast, Khartoum.

### DARC 1 – Germany – DJ9KR (Uli)

BC transmissions, IM products, harmonics = blue

CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	Remarks and Comments
DARC	3500,0	0630	dly	05	E	UiILL	J3E-U	Spanish fishery, daily
DARC	3550,0	0600	dly	05	F	French Lis Amateurs	A3E	AM in CW-section
DARC	3600,0	2028	31	05	F	French Lis Amateurs	A3E	French lis amateurs, AM in CW section
DARC	3600,0	0600	dly	05	F	French Lis Amateurs	A3E	AM in CW-section
DARC	7000,0	1922	05	05	B	UiILL	J3E-U	pirates from Brazil, Portuguese voice
DARC	7000,0	1932	07	05		UiCAR	N0N	carrier, slightly unstable
DARC	7000,0	vt	09	05	INS	UiILL	J3E	Indonesian pirates, using SSB-USB and alternatively SSB-LSB, daily - heard at 1640, 1900
DARC	7000,0	1933	24	05	INS	UiILL	J3E-U	Indonesian pirate net, singing, chatting
DARC	7000,0	vt	vd	05	E	UiILL	J3E-U	Spanish fishery
DARC	7000,0	vt	vd	05	I	UiILL	J3E-U	Italian pirates, SSB-USB
DARC	7009,0	2050	01	05	RUS	V.o.Russia	A3E	is IM 1089 x 5920, location Krasnodar-Armavir Tbilisskaya
DARC	7009,0	vt	08	05	RUS	V.o.Russia	A3E	IM 1089 x 5920, heard 1950 - 2100, tx-er Krasnodar-Armavir Tbilisskaya
DARC	7016,0	vt	vd	05		UiPTR	F1B	unid printer
DARC	<b>7018,0</b>	<b>vt</b>	<b>vd</b>	<b>05</b>	<b>RUS</b>	<b>REA4</b>	<b>F1B</b>	<b>printer, is RUS Air Force Moscow</b>
DARC	<b>7018,0</b>	<b>vt</b>	<b>vd</b>	<b>05</b>	<b>RUS</b>	<b>UiPTR</b>	<b>F1B</b>	<b>printer, location Kaliningrad</b>
DARC	7020,0	0056	01	05		UiBC	A3E	weak signal
DARC	7038,7	1800	06	05	UKR	beacon D	A1A	beacon "D" - Sevastopol, heard 0045,

CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	Remarks and Comments
								1800
<b>DARC</b>	7038,8	vt	vd	05	RUS	beacon P	A1A	beacon "P" - Kaliningrad
<b>DARC</b>	7038,9	vt	vd	05	RUS	beacon S	A1A	beacon "S" - Murmansk
<b>DARC</b>	7039,0	1800	06	05	RUS	beacon C	A1A	beacon "C" - Moscow heard 0700, 1800
<b>DARC</b>	7039,0	1932	07	05		beacon C	A1A	is beacon "C" - Moscow
<b>DARC</b>	7039,1	vt	vd	05	KGZ	beacon A	A1A	beacon "A" - Bishkek
<b>DARC</b>	7039,2	vt	vd	05	RUS	beacon F	A1A	beacon "F" - Vladivostok
<b>DARC</b>	7039,3	vt	vd	05	RUS	beacon K	A1A	beacon "K" - Petropavlovsk
<b>DARC</b>	7039,4	vt	vd	05	RUS	beacon M	A1A	beacon "M" - Magadan
<b>DARC</b>	7041,8	vt	vd	05	RUS	beacon L	A1A	beacon "L" - St. Petersburg
<b>DARC</b>	7050,0	1435	14	05	I	Italian Lis Hams	J3E-L	Italian lis amateurs, SSB in digital section
<b>DARC</b>	7054,0	1744	17	05	RUS	RUS Navy	F1B	RUS Navy Moscow daily heard at 1721 - 2330, 0056, fast reversals most of the time
<b>DARC</b>	7100,0	1540	vd	05	ETH	Govt. Jam	JAM	white noise jammer
<b>DARC</b>	7100,0	1540	vd	05	ERI	VOBME	A3E	under wn-jammer
<b>DARC</b>	7100,0	1743	vd	05	ERI	VOBME	A3E	Ar px S9, weak modulation, found // 7165
<b>DARC</b>	7102,0	vt	vd	05		UiPTR	F1B	unid printer heard all month at 1350 - 1800
<b>DARC</b>	7105,0	2156	13	05	TWN	Sound of Hope	A3E	under Chinese BC used as a jammer, 2156 - 2220
<b>DARC</b>	7105,0	2156	13	05	CHN	Soh Xi Wang Zhi Sheng	A3E	Chinese BC used as a jammer
<b>DARC</b>	7110,0	0053	01	05	BRM	R.Myanmar	A3E	weak signal
<b>DARC</b>	7110,0	0005	vd	05	BRM	R.Myanmar	A3E	Asian mx
<b>DARC</b>	7110,0	0018	vd	05	BRM	R.Myanmar	A3E	Oriental mx
<b>DARC</b>	7110,0	1540	vd	05	ERI	VOBME	A3E	under heavy jam by ETH
<b>DARC</b>	7110,0	1540	vd	05	ETH	Govt. Jam	JAM	heavy white noise jam
<b>DARC</b>	7115,0	1630	vd	05	ERI	VOBME	A3E	is active
<b>DARC</b>	7115,0	1630	vd	05	ETH	Govt. Jam	JAM	white noise jammer on VOBME
<b>DARC</b>	7120,0	vt	18	05	ERI	VOBME	A3E	under white noise jammer, heard 1610 - 1701
<b>DARC</b>	7120,0	vt	18	05	ETH	Govt. Jam	JAM	white noise jammer, heard 1610 - 1701
<b>DARC</b>	7160,0	1733	vd	05	ETH	Govt. Jam	JAM	heavy white noise jam
<b>DARC</b>	7160,0	1733	vd	05	ERI	VOBME	A3E	under heavy white noise jam
<b>DARC</b>	7165,0	1644	vd	05	ERI	VOBME	A3E	under heavy jam by ETH
<b>DARC</b>	7165,0	1644	vd	05	ETH	Govt. Jam	JAM	heavy jam by ETH
<b>DARC</b>	7165,0	1743	vd	05	ERI	VOBME	A3E	Ar px S9+20dB, found // 7100
<b>DARC</b>	7165,0	vt	vd	05	ERI	VOBME	A3E	seems to be main tx-ing frequency
<b>DARC</b>	7170,0	1754	16	05	ERI	VOBME	A3E	typical HOA music
<b>DARC</b>	7175,0	1540	11	05	ETH	Govt. Jam	JAM	white noise jammer 1540 - 1753
<b>DARC</b>	7175,0	1540	11	05	ERI	VOBME	A3E	under wn-jammer 1540 - 1753
<b>DARC</b>	7180,0	1540	vd	05	ERI	VOBME	A3E	under heavy wn jammer from ETH
<b>DARC</b>	7180,0	1540	vd	05	ETH	Govt. Jam	JAM	heavy wn jammer from ETH
<b>DARC</b>	7185,0	1430	vd	05	ETH	Govt. Jam	JAM	white noise jammer
<b>DARC</b>	7185,0	1430	vd	05	ERI	VOBME	A3E	covered by white noise jammer
<b>DARC</b>	7189,7	0053	01	05	CLN	SLBC Sri Lanka	A3E	S9+15dB, QSB
<b>DARC</b>	7189,7	0015	03	05	CLN	SLBC	A3E	measuring tone
<b>DARC</b>	7189,7	0215	vd	05	CLN	SLBC Sri Lanka	A3E	typical music 0015 - 0215
<b>DARC</b>	7189,7	vt	vd	05	CLN	SLBC Sri Lanka	A3E	heard 0020 - 0105
<b>DARC</b>	7190,0	1618	vd	05	ERI	VOBME	A3E	under heavy jam by ETH
<b>DARC</b>	7190,0	1618	vd	05	ETH	Govt. Jam	A3E	under heavy jam by ETH
<b>DARC</b>	7192,0	vt	vd	05		UiMUX	PSK2	AT-3004-D, heard all month at 1700 - 2130
<b>DARC</b>	7195,0	1443	vd	05	ERI	VOBME	A3E	jingle, found // to R.Ethiopia on the same QRG
<b>DARC</b>	7195,0	1555	vd	05	ETH	R.Ethiopia	A3E	jingle, found // to VOBME on the same QRG
<b>DARC</b>	7200,0	0335	03	05	SDN	R.Omdurman	A3E	Ar px, found // with Voice of Justice (IRIB), 0335, 1648
<b>DARC</b>	7200,0	0335	03	05	IRN	Voice of Justice (IRIB)	A3E	English px S9+30dB, found // with R.Omdurman
<b>DARC</b>	7200,0	1929	07	05		UiBC	A3E	unid BC



CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	Remarks and Comments
DARC	7200,0	1929	07	05		UiMOD	XXX	wobble signal, jammer?
DARC	7200,0	2028	28	05	SDN	Radio Omdurman	A3E	Ar px
DARC	7200,0	1618	vd	05	ETH	R.Ethiopia	A3E	En px
DARC	7200,0	1618	vd	05	AFG	Ntl. Radio of Afghanistan	A3E	Indian music
DARC	7200,0	2122	vd	05	IRN	IRIB	A3E	Japanese px S9+25dB - 2058 - 2122
DARC	7205,0	2034	07	05		UiBC	A3E	program "Couleur Tropical", French px, splattering down till 7185 heavily
DARC	10101,0	1900	15	05	Af	UiILL	J3E-U	African Tribal language, 1900, 2000
DARC	10102,0	2126	04	05	CTI	UiILL	J3E-U	pirates off the coast of Ivory Coast
DARC	10121,3	1638	20	05	S.As	UiILL	J3E-U	2 male persons, S.As language
DARC	10125,0	0733	16	05	POR	UiILL	J3E-U	2 male persons in Portuguese voice
DARC	10130,0	1447	01	05	AUT	OEY803	J3E-L	special call for All-Austria-Contest (AOEC) with National Emergency Activity, no intruder!
DARC	10131,0	2144	13	05	MRC	UiILL	J3E-U	male net in Arabic
DARC	10132,0	1440	01	05	AUT	OEY803	J3E-L	special call for All-Austria-Contest (AOEC) with National Emergency Activity, no intruder!
DARC	10133,0	1638	20	05	S.As	UiILL	J3E-U	2 male persons, S.As language
DARC	10135,6	vt	vd	05		UiILL	J3E-U	unid pirates heard 02 03 at 2023, 2032
DARC	10147,0	vt	12	05		UiBC	A3E	carrier unstable, language poss. Russian - heard 1715 - 1730 s/off
DARC	10147,5	1715	12	05		UiBC	A3E	IM product
DARC	10150,0	0819	04	05	I	UiILL	J3E-U	Italian pirates
DARC	10150,0	1805	06	05		UiILL	J3E-U	unid male voices
DARC	10150,0	1849	16	05	MRC	UiILL	J3E-U	Moroccan fishery
DARC	10150,0	1815	dly	05	E	UiILL	J3E-U	Spanish and Moroccan fishery
DARC	14000,0	1518	02	05	INS	UiILL	J3E-U	Indonesian pirate net
DARC	14000,0	vt	25	05		UiOTHR	FMCW	report DG0JBJ
DARC	14000,0	0917	dly	05	MRC	UiILL	J3E-U	Moroccan fishery
DARC	14000,0	1800	dly	05	INS	UiILL	J3E-U	Far East pirates, singing and fooling around, heard 1500, 1800
DARC	14005,0	1905	13	05	CLN	UiILL	J3E-U	Sinhala fishery
DARC	14008,0	vt	vd	05		UiPTR	F1B	fast reversals heard 0720 - 0835
DARC	14024,0	0813	vd	05		UiPTR	F1B	unid printer S9+20dB
DARC	14028,0	0804	vd	05		UiPTR	F1B	unid printer
DARC	14044,0	0813	vd	05		UiPTR	F1B	unid printer
DARC	14050,0	vt	26	05		UiOTHR	FMCW	report DG0JBJ
DARC	14050,0	0733	vd	05		UiPTR	F1B	unid printer
DARC	14070,0	1500	04	05	S.Eu	UiBC	A3E	music, Slavonic voice - report DL3XZ
DARC	14075,0	1505	14	05	IND	Sea Wave Radar	FMCW	heard 14075 - 14115 kHz
DARC	14075,0	1647	22	05	IND	Sea Wave Radar	FMCW	heard 14075 - 14120 kHz
DARC	14100,0	1623	19	05	IND	Sea Wave Radar	FMCW	heard 14075 - 14125 kHz
DARC	14100,0	2034	29	05	IND	Sea Wave Radar	FMCW	is active and audible 14075 - 14115
DARC	14100,0	1610	vd	05	IND	Sea Wave Radar	FMCW	chirps of Sea Wave Radar 14075 - 14125, sounding like Codar
DARC	14180,0	0720	24	05		UiPTR	F1B	unid printer
DARC	14192,0	0733	dly	05		UiPTR	F1B	fast reversals 0733, 0813, 1240, 1647
DARC	14221,0	2034	28	05		UiPTR	F1B	unid printer
DARC	14295,0	1625	vd	05	TJK	R.Tajikistan	A3E	harmonic, S8-signal, pulsating carrier
DARC	14295,1	vt	dly	05	TJK	R.Tajikistan	A3E	3f de 4765, daily heard 0800 - 1000, 1500, 1600
DARC	14350,0	0808	04	05	E	UiILL	J3E-U	Spanish fishery heard with phone patches
DARC	14370,0	vt	24	05		UiOTHR	FMCW	heard 0720 - 0835, just info!
DARC	20985,0	vt	11	05		UiOTHR	FMCW	report DG0JBJ
DARC	21000,0	vt	06	05		UiOTHR	FMCW	report DG0JBJ
DARC	21000,0	vt	27	05		UiOTHR	FMCW	report DG0JBJ
DARC	21000,0	1401	29	05	SDN	MFA Sudan	J3E-U	MFA Sudan, whistling
DARC	21000,0	vt	vd	05		UiOTHR	FMCW	59 reports all month concerning an Unid OTH-Radar in the range 21000 - 21450 kHz - report DG0JBJ

CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	Remarks and Comments
DARC	21001,0	0900	vd	05	CLN	UiLL	J3E-L	Sinhala fishery, SSB-LSB, QTE 100 degs.
DARC	21002,0	1040	vd	05	F.Ea	UiLL	J3E-L	Far East pirates, INS?
DARC	21012,0	1834	vd	05	MRC	UiLL	J3E-U	Moroccan pirates
DARC	21030,0	vt	06	05		UiOTHR	FMCW	report DG0JBJ
DARC	21030,0	vt	07	05		UiOTHR	FMCW	report DG0JBJ
DARC	21030,0	vt	13	05		UiOTHR	FMCW	report DG0JBJ
DARC	21038,0	0708	09	05		UiMUX	XXX	rushing noise S9+20dB
DARC	21070,0	vt	02	05		UiOTHR	FMCW	report DG0JBJ
DARC	21080,0	vt	06	05		UiOTHR	FMCW	report DG0JBJ
DARC	21090,0	vt	29	05		UiOTHR	FMCW	report DG0JBJ
DARC	21100,0	vt	27	05		UiOTHR	FMCW	report DG0JBJ
DARC	21100,0	vt	28	05		UiOTHR	FMCW	report DG0JBJ
DARC	21110,0	vt	13	05		UiOTHR	FMCW	report DG0JBJ
DARC	21130,0	vt	01	05		UiOTHR	FMCW	report DG0JBJ
DARC	21130,0	vt	06	05		UiOTHR	FMCW	report DG0JBJ
DARC	21130,0	vt	21	05		UiOTHR	FMCW	report DG0JBJ
DARC	21140,0	vt	12	05		UiOTHR	FMCW	report DG0JBJ
DARC	21140,0	vt	13	05		UiOTHR	FMCW	report DG0JBJ
DARC	21150,0	vt	04	05		UiOTHR	FMCW	report DG0JBJ
DARC	21150,0	vt	28	05		UiOTHR	FMCW	report DG0JBJ
DARC	21150,0	vt	31	05		UiOTHR	FMCW	report DG0JBJ
DARC	21175,0	vt	10	05		UiOTHR	FMCW	report DG0JBJ
DARC	21185,0	vt	31	05		UiOTHR	FMCW	report DG0JBJ
DARC	21200,0	vt	01	05		UiOTHR	FMCW	report DG0JBJ
DARC	21210,0	vt	31	05		UiOTHR	FMCW	report DG0JBJ
DARC	21210,0	vt	31	05		UiOTHR	FMCW	report DG0JBJ
DARC	21220,0	vt	06	05		UiOTHR	FMCW	report DG0JBJ
DARC	21220,0	vt	10	05		UiOTHR	FMCW	report DG0JBJ
DARC	21250,0	vt	02	05		UiOTHR	FMCW	report DG0JBJ
DARC	21270,0	vt	03	05		UiOTHR	FMCW	report DG0JBJ
DARC	21270,0	vt	04	05		UiOTHR	FMCW	report DG0JBJ
DARC	21270,0	vt	05	05		UiOTHR	FMCW	report DG0JBJ
DARC	21270,0	vt	27	05		UiOTHR	FMCW	report DG0JBJ
DARC	21300,0	vt	06	05		UiOTHR	FMCW	report DG0JBJ
DARC	21310,0	vt	05	05		UiOTHR	FMCW	report DG0JBJ
DARC	21310,0	vt	25	05		UiOTHR	FMCW	report DG0JBJ
DARC	21310,0	vt	30	05		UiOTHR	FMCW	report DG0JBJ
DARC	21330,0	vt	02	05		UiOTHR	FMCW	report DG0JBJ
DARC	21330,0	vt	22	05		UiOTHR	FMCW	report DG0JBJ
DARC	21370,0	vt	10	05		UiOTHR	FMCW	report DG0JBJ
DARC	21390,0	vt	13	05		UiOTHR	FMCW	report DG0JBJ
DARC	21390,0	vt	24	05		UiOTHR	FMCW	report DG0JBJ
DARC	21400,0	vt	26	05		UiOTHR	FMCW	report DG0JBJ
DARC	21405,0	vt	11	05		UiOTHR	FMCW	heard 1455 - 2116 - report DG0JBJ
DARC	21410,0	vt	31	05		UiOTHR	FMCW	report DG0JBJ
DARC	21420,0	vt	28	05		UiOTHR	FMCW	report DG0JBJ
DARC	21425,0	vt	08	05		UiOTHR	FMCW	report DG0JBJ
DARC	21430,0	vt	25	05		UiOTHR	FMCW	report DG0JBJ
DARC	21447,5	1515	09	05	S.As	UiLL	J3E-U	2 S.As male persons, no hams
DARC	21450,0	1732	11	05	E	UiLL	J3E-U	Spanish fisherman with woman, SSB-USB (so outside ham band, but earlier has also been using LSB.)
DARC	21450,0	vt	28	05		UiOTHR	FMCW	report DG0JBJ
DARC	28000,0	vt	08	05		UiOTHR	FMCW	report DG0JBJ
DARC	28000,0	1903	26	05	ARG	UiLL	J3E-U	CB-ers from Argentina
DARC	28000,0	vt	vd	05		Fishnet Buoys	A1A	DK2OM, DJ7KG, KG4GVV, G3YBT, N2NXZ, and WJ5O sent 212 reports re. Fishnet Buoys in the range 28000 - 28451 kHz
DARC	28000,0	vt	vd	05		UiOTHR	FMCW	42 reports all month concerning an Unid OTH-Radar in the range 28000 - 29600 kHz - report DG0JBJ
DARC	28006,0	1635	22	05	E	UiLL	A3E	Spanish CB-ers
DARC	28015,0	1949	19	05	B	UiLL	A3E	pirates from Brazil
DARC	28030,0	vt	06	05		UiOTHR	FMCW	report DG0JBJ
DARC	28035,0	2000	19	05	B	UiLL	A3E	pirates from Brazil

<b>CLUB</b>	<b>kHz</b>	<b>UTC</b>	<b>DD</b>	<b>MM</b>	<b>ITU</b>	<b>Call Sign</b>	<b>MODE</b>	<b>Remarks and Comments</b>
<b>DARC</b>	28050,0	vt	08	05		UiOTHR	FMCW	report DG0JBJ
<b>DARC</b>	28065,0	1954	19	05	B	UiILL	A3E	pirates from Brazil
<b>DARC</b>	28080,0	vt	13	05		UiOTHR	FMCW	report DG0JBJ
<b>DARC</b>	28085,0	1954	19	05	B	UiILL	A3E	pirates from Brazil
<b>DARC</b>	28090,0	vt	13	05		UiOTHR	FMCW	report DG0JBJ
<b>DARC</b>	28100,0	vt	22	05		UiOTHR	FMCW	report DG0JBJ
<b>DARC</b>	28105,0	1902	20	05	B	UiILL	A3E	pirates from Brazil
<b>DARC</b>	28105,0	0959	21	05	RUS	Taxi Traffic	F3E	RUS taxis
<b>DARC</b>	28105,0	0657	24	05	RUS	Taxi Traffic	F3E	RUS taxis
<b>DARC</b>	28110,0	vt	08	05		UiOTHR	FMCW	report DG0JBJ
<b>DARC</b>	28135,0	vt	vd	05	RUS	Taxi Traffic	F3E	RUS taxis heard 24 27 at 0912, 1719
<b>DARC</b>	28145,0	0811	29	05	E	UiILL	A3E	CB-ers from Spain
<b>DARC</b>	28150,0	vt	07	05		UiOTHR	FMCW	report DG0JBJ
<b>DARC</b>	28170,0	vt	01	05		UiOTHR	FMCW	report DG0JBJ
<b>DARC</b>	28175,0	1004	21	05	RUS	Taxi Traffic	F3E	RUS taxis
<b>DARC</b>	28185,0	2010	19	05	B	UiILL	A3E	pirates from Brazil
<b>DARC</b>	28205,0	1913	04	05	B	UiILL	A3E	pirates from Brazil
<b>DARC</b>	28210,0	vt	05	05		UiOTHR	FMCW	report DG0JBJ
<b>DARC</b>	28225,0	vt	vd	05	B	UiILL	A3E	heard 05 19 at 1913, 2008
<b>DARC</b>	28235,0	vt	vd	05	B	UiILL	A3E	pirates heard 04 05 at 1938, 1930
<b>DARC</b>	28255,0	1939	04	05	B	UiILL	A3E	pirates from Brazil
<b>DARC</b>	28275,0	1939	04	05	B	UiILL	A3E	pirates from Brazil
<b>DARC</b>	28285,0	1410	15	05	E	UiILL	A3E	Spanish CB-ers
<b>DARC</b>	28290,0	vt	07	05		UiOTHR	FMCW	report DG0JBJ
<b>DARC</b>	28290,0	vt	28	05		UiOTHR	FMCW	report DG0JBJ
<b>DARC</b>	28300,0	vt	01	05		UiOTHR	FMCW	report DG0JBJ
<b>DARC</b>	28300,0	1947	26	05	B	UiILL	A3E	CB-ers from Brazil
<b>DARC</b>	28305,0	1939	04	05	B	UiILL	A3E	pirates from Brazil
<b>DARC</b>	28305,0	2008	19	05	B	UiILL	A3E	pirates from Brazil
<b>DARC</b>	28310,0	vt	13	05		UiOTHR	FMCW	report DG0JBJ
<b>DARC</b>	28330,0	vt	06	05		UiOTHR	FMCW	report DG0JBJ
<b>DARC</b>	28330,0	1004	21	05	RUS	Taxi Traffic	F3E	RUS taxis
<b>DARC</b>	28350,0	vt	08	05		UiOTHR	FMCW	report DG0JBJ
<b>DARC</b>	28450,0	vt	06	05		UiOTHR	FMCW	report DG0JBJ
<b>DARC</b>	28460,0	vt	01	05		UiOTHR	FMCW	report DG0JBJ
<b>DARC</b>	28470,0	vt	22	05		UiOTHR	FMCW	report DG0JBJ
<b>DARC</b>	28500,0	vt	13	05		UiOTHR	FMCW	report DG0JBJ
<b>DARC</b>	28700,0	vt	06	05		UiOTHR	FMCW	report DG0JBJ
<b>DARC</b>	28710,0	vt	28	05		UiOTHR	FMCW	report DG0JBJ
<b>DARC</b>	28770,0	vt	01	05		UiOTHR	FMCW	report DG0JBJ
<b>DARC</b>	28850,0	vt	22	05		UiOTHR	FMCW	report DG0JBJ
<b>DARC</b>	28890,0	vt	22	05		UiOTHR	FMCW	report DG0JBJ
<b>DARC</b>	28900,0	vt	01	05		UiOTHR	FMCW	report DG0JBJ
<b>DARC</b>	28950,0	vt	13	05		UiOTHR	FMCW	report DG0JBJ
<b>DARC</b>	29000,0	vt	02	05		UiOTHR	FMCW	report DG0JBJ
<b>DARC</b>	29000,0	vt	28	05		UiOTHR	FMCW	report DG0JBJ
<b>DARC</b>	29000,0	vt	29	05		UiOTHR	FMCW	report DG0JBJ
<b>DARC</b>	29000,0	vt	31	05		UiOTHR	FMCW	report DG0JBJ
<b>DARC</b>	29035,0	0950	21	05	RUS	Taxi Traffic	F3E	RUS taxis
<b>DARC</b>	29110,0	vt	08	05		UiOTHR	FMCW	report DG0JBJ
<b>DARC</b>	29170,0	vt	27	05		UiOTHR	FMCW	report DG0JBJ
<b>DARC</b>	29180,0	vt	01	05		UiOTHR	FMCW	report DG0JBJ
<b>DARC</b>	29200,0	vt	22	05		UiOTHR	FMCW	report DG0JBJ
<b>DARC</b>	29200,0	vt	28	05		UiOTHR	FMCW	report DG0JBJ
<b>DARC</b>	29210,0	vt	05	05		UiOTHR	FMCW	report DG0JBJ
<b>DARC</b>	29300,0	vt	22	05		UiOTHR	FMCW	report DG0JBJ
<b>DARC</b>	29350,0	vt	22	05		UiOTHR	FMCW	report DG0JBJ
<b>DARC</b>	29580,0	vt	06	05		UiOTHR	FMCW	report DG0JBJ
<b>DARC</b>	29600,0	vt	01	05		UiOTHR	FMCW	report DG0JBJ
<b>DARC</b>	29600,0	vt	05	05		UiOTHR	FMCW	report DG0JBJ

**DARC 2 – Germany - DK2OM (Wolf)****PSE observe:****FSK transmissions -> center frequency between mark and space****PSK transmissions -> center frequency****ALE (MIL188-141A) -> USB frequency – exclusive bands: black – shared bands: blue****voice traffic -> green****SH = shift --- SP = spread (radar) – SPS = sweeps/sec (radar)**

<b>DK2OM</b>	<b>kHz</b>	<b>UTC</b>	<b>DD</b>	<b>MM</b>	<b>ITU</b>	<b>IDENT</b>	<b>MODE</b>	<b>BD</b>	<b>SH/SP</b>	<b>DETAILS</b>
<b>DK2OM</b>	1812,0	vt	vd	05	POL		A3E			Polish “PIP” – 10 tones – navigation system - North-Poland – Baltic coast - POL Navy – legal operation
<b>DK2OM</b>	1876,8	ady	dly	05	G		PSK8	2400	2400	Stanag4285 - 1200 bps long - Scotland
<b>DK2OM</b>	1881,4	ady	dly	05	F		QPSK	100	100	BC-PSK – Radio Navigation – Nantes - France
<b>DK2OM</b>	1896,5	ady	dly	05	D		PSK8	2400	2400	Stanag4285 - 600 bps long - German Navy
<b>DK2OM</b>	3500,0	vt	dly	05	TUR	no ITU	FSK8	125	1750	ALE, “2015” “2016” “1020” “3010”- Turkish Red Crescent - legal
<b>DK2OM</b>	3503,5	vt	dly	05	G	no ITU	FSK8	125	1750	ALE – “XSS” “XPU” – British MIL Tascomm
<b>DK2OM</b>	3509,7	2200	16	05	ISR		PSK4	75	2600	MIL-188-10A hybrid modem
<b>DK2OM</b>	3510,0	vt	dly	05	ALG	no ITU	FSK8	125	1750	ALE, “JE30” “PT30”
<b>DK2OM</b>	3520,0	2024	31	05	F		USB			French fishery
<b>DK2OM</b>	3527,0	1900	dly	05	RUS		F1B	50	200	Severomorsk - daily
<b>DK2OM</b>	3532,0	2105	11	05	ALG	no ITU	FSK8	125	1750	ALE, “UN3” “VQ30”
<b>DK2OM</b>	3533,0	vt	dly	05	E	no ITU	FSK8	125	1750	ALE, “TYBB1” “TYVC1” “TCS” “TYVV1” - Spanish Guardia Civil
<b>DK2OM</b>	3544,8	2206	08	05	ROU		PSK8	2400	2400	Stanag4285 - Oradea
<b>DK2OM</b>	3545,0	vt	dly	05	ALG	no ITU	FSK8	125	1750	ALE, “FL49” “FL57” “PT50” - ALG MIL + voice traffic USB and scrambler
<b>DK2OM</b>	3553,8	ady	dly	05	TUR		PSK8	2400	2400	Stanag4285 – TUR MIL - Ankara
<b>DK2OM</b>	3585,0	1700	dly	05	TWN	HLL	F1C			120 rpm, IOC 576, Wxfax - legal!
<b>DK2OM</b>	3587,0	vt	dly	05	E	no ITU	FSK8	125	1750	ALE, “TVV” “TXX” - Spanish Guardia Civil
<b>DK2OM</b>	3590,0	vt	dly	05	PAK	no ITU	FSK8	125	1750	ALE, “KW” “ZULFIQUARI” “KHAIBAR” “SAIF1” “NRS”- Pakistan Navy
<b>DK2OM</b>	3595,0	vt	dly	05	D	no ITU	FSK8	125	1750	ALE, „ZLST“ „ZPRI“ „ZSHO“ „ZBOR“ „ZEM“ „ZHEL“ „ZKNI“ „ZBOR“ „BPLEZS“ German customs – North-Germany
<b>DK2OM</b>	3596,0	vt	dly	05	HRV	9A0ALE	FSK8	125	1750	Croatian emergency ALE-net --- for info!
<b>DK2OM</b>	3601,0	vt	vd	05	D	DA0EC	PSK8	2000	2000	RFSM 8000 – amateur emergency net - Berlin - legal operation - just for info!!!
<b>DK2OM</b>	3602,5	vt	dly	05	AUT	OE9XRK	PSK2/4	1800	1800	Pactor4 – Mailbox OE9XRK – just for info!
<b>DK2OM</b>	3603,0	vt	dly	05	ALG	no ITU	FSK8	125	1750	ALE, “PT01JL94” “JL05JL94”
<b>DK2OM</b>	3610,0	vt	dly	05	D		PSK8	200	500	German APRS Net in Robust Packet - just for info!
<b>DK2OM</b>	3617,0	vt	dly	05	HRV	9A5EX	FSK8	125	1750	ALE, “9A5EX1P” – HAM-ALE - just for info
<b>DK2OM</b>	3622,5	1800	dly	05	J	JMH	F1C			Tokyo Meteo – 120 rpm – IOC576 – daily, legal!!!
<b>DK2OM</b>	3626,0	vt	dly	05	HRV	9A5EX	FSK8	125	1750	ALE, “9A5EX” – just for info
<b>DK2OM</b>	3660,0	vt	dly	05	ALG		FSK8	125	1750	ALE, “UN20” XT20” - Algerian MIL



DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	3751,5	vt	dly	05	POL	no ITU	FSK8	125	1750	ALE, "LA7" "MI3"
DK2OM	3756,0	ady	dly	05	UKR		A3E			UKR – pip – 10 tones – navigation system
DK2OM	3761,5	vt	dly	05	POL	no ITU	FSK8	125	1750	ALE, "NI9" "AB2" – Polish military
DK2OM	3782,0	ady	dly	05	POR	CTP	F1B	75	850	POR Navy headquarter Lisbon
DK2OM	7000,0	1830	06	05	ISR		N0N			carrier 7000.004 kHz
DK2OM	7000,0	1742	02	05	CHN		FMCW		60k	OTHR China – 43.5 sps – 60 kHz wide – 6950 – 7010 kHz
DK2OM	7000,0	2156	06	05						frequency hopper
DK2OM	7011,0	1731	02	05	RUS		F1B	75	250	Kaliningrad
DK2OM	7032,0	1646	04	05	RUS		PSK2	120	2600	AT3004D – Kaliningrad
DK2OM	7037,0	1650	23	05	CHN		FMCW		30k	Chinese Coastal Radar – 2.6 sps – 7037 – 7067 kHz
DK2OM	7038,7	ady	dly	05	UKR	D	A1A			Cluster beacon – Sevastopol RUS Navy – "RCV"
DK2OM	7038,8	ady	dly	05	RUS	P	A1A			Cluster beacon – St. Petersburg RUS Navy – "RJC66"
DK2OM	7038,9	ady	dly	05	RUS	S	A1A			Cluster beacon – Severomorsk RUS Navy – „RIT“
DK2OM	7039,0	ady	dly	05	RUS	C	A1A			Cluster beacon - Moscow RUS Navy - "RIW"
DK2OM	7039,1	vt	dly	05	KGZ	A	A1A			Cluster beacon – Bishkek RUS Navy – "RJH25"
DK2OM	7039,2	ady	dly	05	RUS	F	A1A			Cluster beacon - Vladivostok RUS Navy - "RJS"
DK2OM	7039,3	vt	dly	05	RUS	K	A1A			Cluster beacon - Petropavlovsk Kamchatskiy - RUS Navy - Pacific fleet - "RCC"
DK2OM	7039,4	1437	03	05	RUS	M	A1A			Cluster beacon – Magadan RUS Navy – „RTS“
DK2OM	7040,5	vt	dly	05	HRV	9A5EX	FSK8	125	1750	ALE, "9A5EX" - just for info!
DK2OM	7049,5	vt	dly	05	F	F4BXW1	FSK8	125	1750	ALE, "F4BXW1" - just for info!
DK2OM	7054,0	vt	dly	05	RUS		F1B	50	200	RUS Navy - Moscow
DK2OM	7065,0	vt	dly	05	HRV	9A5EX	FSK8	125	1750	ALE, "9A5EX" - just for info!
DK2OM	7075,0	2013	29	05	RUS		PSK2	120	2600	AT3004D - Rostov
DK2OM	7089,8	1620	08	05	TUR		PSK8	2400	2400	Link11 - SLEW – aircraft – Turkish coast – area of Anamur
DK2OM	7099,5	vt	dly	05	HRV	9A0ZG	FSK8	125	1750	ALE, "9A0ZG" - just for info
DK2OM	7102,0	vt	dly	05	HRV	9A3COL	FSK8	125	1750	ALE, "9A3COL" – just for info!
DK2OM	7110,5	vt	dly	05	HRV	9A0ALE	FSK8	125	1750	ALE, amateur net, just for info!
DK2OM	7126,0	1910	01	05	CHN		FMCW		34k	Chinese Coastal Radar – 2.6 sps – 7126 – 7160 kHz
DK2OM	7180,0	vt	dly	05	MRC	no ITU	FSK8	125	1750	ALE, "9201" "6350" "RC1"
DK2OM	7185,5	vt	dly	05	F	F4BXW	FSK8	125	1750	ALE, "F4BXW" - just for info!
DK2OM	10106,0	vt	dly	05	ALG	no ITU	FSK8	125	1750	ALE, "OG100A" "OR200B" - Algerian MIL
DK2OM	10108,0	0754	10	05	RUS		F1B	50	200	Moscow
DK2OM	10110,0	vt	vd	05	SNG		FSK8	125	1750	ALE, "CN6" "68" – Singapore Navy - Changi Naval Base with frigate "RSS Formidable"
DK2OM	10112,0	ady	dly	05	TUR		PSK8	2400	2400	Stanag4285 – 600 bps long – TUR MIL - Izmir
DK2OM	10114,8	0617	04	05	RUS		F1B	100	1000	CIS14 - Penza
DK2OM	10115,0	vt	dly	05		no ITU	FSK8	125	1750	ALE, "2001", "2011" "2005"
DK2OM	10118,0	1740	30	05			A3E			female voice spelling 5 number groups
DK2OM	10120,0	vt	dly	05		no ITU	FSK2	125	1750	ALE, "9066" "9067"
DK2OM	10130,0	vt	dly	05	USA		F1B	50	850	USA - Maine
DK2OM	10130,0	vt	vd	05			FSK8	125	1750	Thales 3000
DK2OM	10134,0	vt	dly	05	ALG	no ITU	FSK8	125	1750	ALE, "CM4" "COF" - Algerian Airforce
DK2OM	10136,5	vt	dly	05	F	F4BXW	FSK8	125	1750	ALE, "F4BXW" - just for info!
DK2OM	10142,5	vt	dly	05	HRV	9A5EX	FSK8	125	1750	ALE, "9A5EX" – just for info!
DK2OM	10145,5	vt	dly	05	HRV	9A5EX	FSK8	125	1750	ALE, 9A5EX, just for info!
DK2OM	10146,0	vt	dly	05	ALG		FSK8	125	1750	ALE, "ORG" "CM4" – ALG Airforce

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	10150,0	vt	dly	05		no ITU	FSK8	125	1750	ALE, "CFA" "CTA"
DK2OM	14002,0	1642	04	05						frequency hopper
DK2OM	14008,0	0805	16	05	RUS		F1B	50	250	Moscow - also: 27.05. at 0820 utc
DK2OM	14026,0	0810	05	05	RUS		PSK2	120	2600	AT3004D - Velikije Luki
DK2OM	14037,0	vt	dly	05	CHN	no ITU	FSK8	125	1750	ALE, "313" "132" "932"
DK2OM	<b>14075,0</b>	<b>ady</b>	<b>dly</b>	<b>05</b>	<b>IND</b>		<b>FMCW</b>		<b>50k</b>	<b>Codar like Radar, 14075 – 14125, 2 sps, North-East India</b>
DK2OM	14104,0	vt	dly	05	CHN		FSK8	125	1750	ALE, "A98" "L06"
DK2OM	14109,0	vt	dly	05	F	F4BXW	FSK8	1250	1750	ALE, "F4BXW" - just for info
DK2OM	14112,0	0844	31	05	RUS		PSK2	120	2600	AT3004D - area of Smolensk
DK2OM	14112,7	1500	31	05	CHN		PSK8	2400	2400	bursts – MIL-188-110A variant
DK2OM	14192,0	vt	dly	05	RUS		F1B	50	500	RUS Navy Kaliningrad
DK2OM	14221,0	1914	20	05	RUS		F1B	50	200	south of Moscow
DK2OM	14247,0	vt	dly	05	E	no ITU	FSK8	125	1750	ALE, "151" "250"
DK2OM	14254,3	0920	17	05	RUS		F1B	50	200	Kaliningrad
DK2OM	14294,0	2008	26	05	RUS		PSK2	120	2600	AT3004D -.submode idle - Far East Russia
DK2OM	14316,0	vt	dly	05	?	no ITU	FSK8	125	1750	ALE, "601" "611"
DK2OM	14325,1	vt	vd	05	FEa	no ITU	FSK8	125	1750	ALE, "776" "699" "475"
DK2OM	14331,0	vt	dly	05			FSK8	125	1750	ALE, "417" "663"
DK2OM	14341,0	vt	dly	05	I		FSK8	125	1750	ALE, "20" - area of Rome
DK2OM	14343,0	vt	dly	05	CHN	no ITU	FSK8	125	1750	ALE, "L06" "A98"
DK2OM	14344,7	ady	dly	05	CHN		PSK8	2400	2400	bursts – MIL-188-110A variant
DK2OM	14348,6	vt	dly	05	KRE		F1B	1200	1200	DPRK-FSK1200 – North Korea – 14348.565 kHz
DK2OM	14350,0	vt	27	05	TWN		FSK8	125	1750	<b>ALE-LSB</b> , "ABJECT, AFFECT, APPLEF" – Taiwanese Navy
DK2OM	18070,0	1432	25	05	CYP		<b>FMCW</b>		<b>20k</b>	<b>OTH Radar Cyprus, 50 sps</b>
DK2OM	18107,0	vt	vd	05	RUS		<b>F1B</b>	<b>50</b>	<b>200</b>	<b>RUS MIL Moscow - legal operation</b>
DK2OM	18170,0	0930	18	05	CYP		<b>FMCW</b>		<b>20k</b>	<b>OTH Radar Cyprus, 50 sps</b>
DK2OM	21000,0	0800	25	05		no ITU	FSK8	125	1750	ALE, "ABC"
DK2OM	21000,0	vt	dly	05	TUN		<b>USB</b>			<b>net in Arabic voice – Tunisian East coast</b>
DK2OM	21001,5	1328	02	05	RUS		F1B	600	600	DPRK-FSK600 – Noth Korean embassy Moscow
DK2OM	21003,0	0838	30	05						frequency hopper
DK2OM	21008,0	1713	01	05						frequency hopper
DK2OM	21016,7	0807	18	05			F1B	100	170	Sitor A, MFA Cairo, ATU80 Arabic alphabet
DK2OM	21038,0	0734	09	05	UKR		PSK2	120	2600	AT3004D - Sevastopol
DK2OM	21072,0	0836	20	05						frequency hopper
DK2OM	21089,5	vt	dly	05	HRV	9A5EX	FSK8	125	1750	ALE, "9A5EX" - just for info!
DK2OM	21096,0	vt	dly	05	POR	CT2GOY	FSK8	125	1750	ALE, "CT2GOY" – just for info
DK2OM	21120,0	0832	15	05						frequency hopper
DK2OM	21150,0	1025	01	05	TUR		FMCW		20k	OTH Radar Ankara – Turkey – 50 sps
DK2OM	21150,0	0818	04	05	CYP TUR		FMCW		20k	OTH Radar Cyprus or Turkey – 50 sps
DK2OM	21150,0	0834	09	05						frequency hopper
DK2OM	21163,0	0917	22	05	CHN		PSK4	75	2250	PRC4 + 4, South China
DK2OM	21175,0	1820	10	05	TUR		FMCW		20k	OTH Radar Ankara, 50 sps
DK2OM	21300,0	1450	06	05	TUR		FMCW		20k	OTH Radar South East Turkey – 50 sps
DK2OM	21330,0	vt	dly	05	CAN		FSK8	125	1750	ALE, "VE3OUV" - just for info
DK2OM	21390,0	1003	14	05	CYP		FMCW		20k	OTH Radar Cyprus, 50 sps
DK2OM	21400,0	0821	04	05	RUS		F1B	50	2000	harmonic from 5350 – area of Jekaterinburg
DK2OM	21400,0	1633	01	05	OTH		FMCW		20k	OTH Radar Cyprus, 50 sps
DK2OM	21405,0	1451	11	05	TUR		FMCW		20k	OTH Radar West Turkey – 25 sps – long lasting
DK2OM	21424,0	0955	21	05	RUS		F1B	50	400	Moscow
DK2OM	21428,0	0850	05	05	CHN		FMCW		10k	Chinese OTH Radar – 66.66 sps- 3.8 sec bursts - every 4 seconds

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	21438,0	vt	dly	05	UKR	RCV	A1A			RIP90 de RCV - RUS Navy Sevastopol
DK2OM	21440,8	vt	dly	05	AFG		PSK8	2400	2400	Link11 - SLEW
DK2OM	21448,0	0823	29	05						frequency hopper
DK2OM	24900,0	0651	22	05	TUR		FMCW		20k	OTH Radar West Turkey – 25 sps
DK2OM	24920,0	1747	24	05	CYP		FMCW		20k	OTH Radar Cyprus, 50 sps
DK2OM	25000,0	ady	dly	05	FIN		A3E			time signal Helsinki – just for info – carrier on 25000 – dots on 25001
DK2OM	28000,0	vt	dly	05	B		A3E			28000 – 28325 B razilian CBers
DK2OM	28100,4	ady	dly	05	POR		F1B	51	270	F1B – bursts – 3.2 sec
DK2OM	28100,8	ady	dly	05	POR		F1B	51	270	F1B – bursts – 3.2 sec
DK2OM	28102,1	ady	dly	05	POR		F1B	51	270	F1B – bursts – 3.2 sec
DK2OM	28102,9	ady	dly	05	POR		F1B	51	270	F1B – bursts – 3.2 sec
DK2OM	28181,5	1800	dly	05	G		F1B	300	850	F1B bursts – every 60 sec. – Falkland Islands – <b>system Clansman</b> - daily
DK2OM	28285,0	vt	31	05	E		A3E			Spanish CBers
DK2OM	28345,0	1939	24	05						frequency hopper
DK2OM	28345,9	vt	dly	05	GAB		A3E		1425	carrier and dots in USB and LSB, bursts every 60 sec – 28345.83 kHz carrier - Gabon
DK2OM	29000,0	0935	02	05	MEa		FMCW		50k	OTH Radar - 185, 307, 870 sps
DK2OM	29000,0	1000	29	05	MEa		FMCW		50k	OTH Radar - 307 sps
DK2OM	29684,8	1120	14	05	I		serial			serial modem, Italian MIL Brescia
DK2OM	29699,8	1120	14	05	I		serial			serial modem, Italian MIL Brescia

### IRTS – Ireland – EI4GXB (Ger)

### KARS – Kuwait – 9K2RR (Faisal)

### MRASZ – Hungary - HA7PL (Laci)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
MRASZ	7000,0	1908	3	5			USB			spanish (?) male
MRASZ	7000,0	1642	4	5			N0N			carrier S9+20, +30dB
MRASZ	7000,0	1706	7	5			N0N			carrier
MRASZ	7000,0	1722	21	5			USB			
MRASZ	7009,0	1920	4	5			LSB			english: "CQ, CQ, halo 1 2 3 4 5"
MRASZ	7009,0	2025	13	5		UiBC	A3E			
MRASZ	7011,0	1727	3	5			F1B		250	
MRASZ	7027,5	1721	7	5			A1A			"V V V" slowly
MRASZ	7030,0	1740	3	5			J7D			
MRASZ	7030,0	1648	4	5			J7D			
MRASZ	7030,0	1532	24	5			J7D			
MRASZ	7038,7	1648	4	5	UKR	D	A1A			beacon "D"
MRASZ	7038,7	1708	21	5	UKR	D	A1A			beacon "D"
MRASZ	7038,9	1722	7	5	RUS	S	A1A			beacon "S"
MRASZ	7038,9	1918	30	5	RUS	S	A1A			beacon "S"
MRASZ	7039,0	1648	4	5	RUS	C	A1A			beacon "C"
MRASZ	7039,0	1722	7	5	RUS	C	A1A			beacon "C"
MRASZ	7054,0	1740	3	5	RUS		F1B	50	200	
MRASZ	7054,0	1724	7	5	RUS		F1B	50	200	
MRASZ	7054,0	1916	22	5	RUS		F1B	50	200	
MRASZ	7054,0	1910	30	5	RUS		F1B	50	200	
MRASZ	7120,0	1705	21	5			N0N			
MRASZ	7129,0	1533	24	5			N0N			
MRASZ	7140,0	1705	21	5			N0N			
MRASZ	7140,0	1533	24	5			N0N			

MRASZ	7175,0	1715	3	5		UiBC	A3E			
MRASZ	7175,0	1534	24	5		UiBC	A3E			
MRASZ	7195,0	1707	21	5		UiBC	A3E			
MRASZ	14192,0	840	10	5		Ui	F1B		500	printer
MRASZ	14192,0	1928	30	5		Ui	F1B		500	printer
MRASZ	21120,0	1713	20	5			OTHR			till 21180.

### OEVSV – Austria – OE3GSA (Gerd)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
oevsv	7008	0515	15	05			F1B		200	fast RTTY
oevsv	7054	0510	07	05			F1B		250	idle? QTE 110deg
oevsv	7174	0515	23	05			A3E			BC male speaker
oevsv	7180	0540	25	05			A3E			BC male voice, music QTE 140deg
oevsv	10101	0515	09	05			USB			males in spanish

### PZK – Poland – SP3UZ (Wladyslaw)

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

SOC	KHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REP	3510	07.00	11	05		ni	Pulse			Bips marker
REP	3515	21.40	13	05	E		J3E-L			Fishermen
REP	3525	21.40	24	05	E		J3E-U			Fishermen
REP	3535	08.02	15	05	E		J3R-U			Fishermen
REP	3535	07.45	18	05	E		J3E-L			Spanish fishermen
REP	3550	21.21	05	05		ni	J3E-L			English lang. talkings about sailing
REP	3580	19.32	06	05	E		J3E-U			Spanish fishery (very strong signals)
REP	3615	08.30	08	05	E		J3E-U			Spanish fishermen
REP	3625	07.44	31	05	E POR		J3E-U			Several fishermen ship to ship
REP	3756	00.12	27	05		ni	A2A			Pulses (1 bps)
REP	7001,3	01.25	02	05	E		J3E-U			Fishermen
REP	7005	09.18	07	05		ni	J3E-U			Arab talking
REP	7015	22.23	14	05	E		J3E-U			Fishermen talking with land (family ?)
REP	7015,5	19.19	19	05	E		J3E-U			Fishermen
REP	7025	22.06	13	05		ni	J3E-L			Arabs (Magreb ?)
REP	7025	18.20	10	05	E		J3E-L			Spanish fishermen
REP	7030	19.43	10	05	E		J3E-U			Spanish fishermen (sea to land)
REP	7038,6	07.20	21	05	RUS	S	A1A			MURMANSK, ADY, DLY 3.1uV S5
REP	7038,7	07.10	21	05	UKR	D	A1A			SEVASTOPOL, ADY, DLY 12.5uV S7
REP	7038,7	23.30	04	05	UKR	D	A1A			SEVASTOPOL Beacon 12.5uV S7
REP	7039,0	21.30	17	05	RUS	C	A1A			MOSCOW, ADY, DLY 6.3uV S6
REP	7039,0	23.03	20	05	RUS	C	A1A			MOSCOW Beacon 50uV S9
REP	7039,1	19.50	20	05	RUS	A	A1A			VOLGOGRAD, ADY, DLY 3.1uV S5
REP	7039,1	21.45	20	05	RUS	A	A1A			VOLGOGRAD, ADY, DLY 3.1uV S5
REP	7065	18.22	29	05		ni	J3E-U			Fishermen ?
REP	7078	22.28	28	05		ni	A3E			Several tone pulse (DTMF)
REP	7110	00.25	28	05	CHN		8k00 A3EGN			Broadcasting
REP	7175	04.46	11	05		ni	8k00 A3EGN			Broadcasting with strong fade
REP	10106	22.14	22	05		ni	J3E-U			Fishers discussing fishing technics
REP	10131	18.30	05	05		ni	F1B	300	170	
REP	10136	22.51	05	05		ni	J3E-U			Scrambling and 5 number station
REP	14000	08.02	30	05			---			PLC ? Interference
REP	14140	08.13	30	05	E		J3E-U			Spanish fishery sea to harbour
REP	14160	20.15	01	05		ni	J3E-U			Family call
REP	28050	11.24	17	05	RUS		F3E			Taxis
REP	28125	10.28	17	05	RUS		F3E			Radio-Taxis
REP	28175	11.51	31	05	RUS		A3E			Taxis



RSGB - Great Britain – G4BOH (Chris)

SRAL – Finland – OH2BLU (Pekka)

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
SRAL	7000,0	0230-1930	3- 7	5	ISR?	UiCarr	N0N			
SRAL	7005,0	1530-1710	8, 14	5	RUS	RGT77	A1A			procedures
SRAL	7008,0	0430-1930	1, 4, 5	5		UiPTR	F1B		250	
SRAL	7011,0	0330-1930	2- 4	5	RUS	UiPTR	F1B		200	Kaliningrad
SRAL	7018,0	0910-1330	4	5		UiMUX	J7D	12x120	12x200	
SRAL	7019,0	0335-1745	*	5		UiPTR	F1B		500	Days: 20, 21, 23, 31
SRAL	7022,0	0615-1640	1, 6, 30	5		UiMUX	J7D	12x120	12x200	
SRAL	7025,0	0550-1745	8, 17	5	RUS	UiPTR	F1B		200	
SRAL	7032,0	0200-1930	*	5	RUS	UiMUX	J7D	12x120	12x200	Days: 2- 6, 14, 15, 24, 25
SRAL	7038,9	h24	dly	5	RUS	S	A1A			Severomorsk
SRAL	7039,0	h24	1- 27	5	RUS	C	A1A			Moscow
SRAL	7039,2	0515-1930	14, 15	5	RUS	L	A1A			St Peterburg
SRAL	7054,0	1700-0700	dly	5	RUS	REA4	F1B		200	Moscow
SRAL	7060,0	1255-1530	28	5		UiMUX	J7D	12x120	12x200	
SRAL	7075,0	0425	30	5		UiMUX	J7D	12x120	12x200	
SRAL	7081,0	0320	9	5	RUS	RMW46	A1A			
SRAL	7082,0	0520	18	5		UiMUX	J7D	12x120	12x200	
SRAL	7091,5	0955	31	5		UiPTR	F1B		250	
SRAL	7095,0	1225-1230	4	5	RUS		A1A			5F
SRAL	7099,0	1300-1320	13	5	RUS		A1A			5BL
SRAL	7120,0	1315-1445	4	5		UiPTR	F1B		200	
SRAL	7120,0	0300-0400	dly	5	ERI	VoBME	A3E			jammed by ETH, QSY 7100 - 7130 kHz
SRAL	7120,0	1500-1800	dly	5	ERI	VoBME	A3E			QSY 7100 – 7130 kHz, jammed by ETH until 1700,
SRAL	7158,0	0715-0730	2	5	RUS	475	A1A			5F
SRAL	7160,0	0300-0430	dly	5	ERI	VoBME	A3E			jammed by ETH, QSY 7150 - 7170 kHz
SRAL	7160,0	1600-1800	dly	5	ERI	VoBME	A3E			QSY 7150 – 7170 kHz, jammed by ETH until 1700,
SRAL	7162,0	0700-1300	5, 6, 8	5	RUS	UiPTR	F1B			
SRAL	7166,0	1615-1920	8, 9	5	RUS	9	A1A			PVO, time-stamp
SRAL	7169,0	0915-1000	24, 28	5	RUS	UiPTR	F1B		200	
SRAL	7175,0	0300-0500	dly	5	ERI	VoBME	A3E			jammed by ETH, QSY 7160 – 7190 kHz
SRAL	7175,0	1445-1800	dly	5	ERI	VoBME	A3E			QSY 7160 – 7190 kHz, jammed by ETH until 1700,
SRAL	7175,0	1800-1930	23	5	ERI	VoBME	A3E			

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
SRAL	7181,0	1840	29	5	RUS	UiPTR	F1B			idling
SRAL	7184,0	0800-0930	13	5	RUS	UiPTR	F1B			
SRAL	7186,0	0415-1630	12, 13	5	RUS	UiMUX	J7D	12x120	12x200	
SRAL	7198,0	0750-0830	14	5	RUS	UiMUX	J7D	12x120	12x200	
SRAL	7200,0	0200-0500	dly	5	SDN	R Sudan	A3E			
SRAL	7200,0	1630-2000	dly	5	SDN	R Sudan	A3E			
SRAL	7200,0	1530-1830	dly	5	ERI	VoBME	A3E			jammed by ETH, QSY +/- 5kHz (or more up?)
SRAL	14007,0	1020	21	4	RUS	UiPTR	F1B		250	
SRAL	14088,0	0650-1250	*	5		UiPTR	F1B		250	Days: 5, 7, 9, 17, 24, 27, 31.
SRAL	14012,0	0930-1315	24	5		UiMUX	J7D	12x120	12x200	
SRAL	14026,0	0845-1440	5	5	RUS	UiMUX	J7D	12x120	12x200	Velikie Luki
SRAL	14083,0	0930-1315	24	5		UiMUX	J7D	12x120	12x200	
SRAL	14108,0	0930-1115	20, 24	5			A1A			5BL
SRAL	14151,0	1005-1250	24	5		UiPTR	F1B			
SRAL	14192,0	0500-185	dly	5		UiPTR	F1B		200/500	
SRAL	14238,0	1230-1305	31	5		UiPTR	F1B		250	
SRAL	14292,0	0645-1915	23-31	5			A1A			5BL, 4F
SRAL	14295,1	0130-1930	dly	5	TJK	R Tojikiston	A3E			3f 4765,05 kHz, Yangiyul TX
SRAL	18065,0	1115-1121	10	5		UiOTHR	P0N			20 kHz/ 50 Hz
SRAL	18070,0	1035	5	5		UiOTHR	P0N			20 kHz/ 50 Hz
SRAL	18100,0	1145-1157	17	5		UiOTHR	P0N			20 kHz/ 50 Hz
SRAL	18107,0	0630-1540	4	5		UiPTR	F1B		200	
SRAL	18155,0	1010-1016	25	5		UiOTHR	P0N			20 kHz/ 50 Hz
SRAL	21 MHz	0605-1602	*	5		UiOTHR	P0N			Days: 2, 5, 6, 12, 27. 20 kHz/ 50/25 Hz
SRAL	28390,0	1345-1410	19	5		UiOTHR	P0N			20 kHz/ 50 Hz
SRAL	28 MHz	0900-1100	*	5	CIS	UiVOX	F3E			Days: 18, 19, 20. 21 reports

### USKA – Switzerland – HB9CET (Peter)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	7000.0	2159	03	05			N0N			often
USKA	7000.0	0836	06	05			J3E-U			Italian
USKA	7020.0	1339	21	05			J3E-L			Italian
USKA	7032.0	2201	03	05			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D often
USKA	7032.0	2034	24	05					2k6	CIS12 idling only
USKA	7038.3	1442	01	05	RUS	K	A1A			Beacon K Petropavlovsk
USKA	7038.9	1451	01	05	RUS	S	A1A			Beacon S Murmansk daily
USKA	7039.0	1534	01	05	RUS	C	A1A			Beacon C Moscow daily
USKA	7039.0	1528	23	05			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D
USKA	7039.2	1442	01	05	RUS	F	A1A			Beacon F Vladivostok daily
USKA	7039.2	2023	14	05		L	A1A			Beacon L

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	7039.4	1443	01	05	RUS	M	A1A			Beacon M Magadan daily
USKA	7053.9	1800	01	05			A1			illegal jammer (dash/dots)
USKA	7054.0	1800	01	05			F1B	50	200	daily
USKA	7070.0	1929	08	05		571	MFSK8	125	1750	MIL 188-141A
USKA	7070.0	1936	08	05		244	MFSK8	125	1750	MIL 188-141A almost daily
USKA	7070.0	2148	08	05		514	MFSK8	125	1750	MIL 188-141A almost daily
USKA	7070.0	0204	09	05		IZ	MFSK8	125	1750	MIL 188-141A
USKA	7075.0	2029	29	05					2k6	CIS12; idling only
USKA	7089.8	2123	08	05			PSK-8	2400	2k6	Link 11- SLEW often
USKA	7097.875	1305	21	05			A1			illegal jammer (dash/dots)
USKA	7098.0	1305	21	05			F1B	40.5	250	
USKA	7105.0	2212	17	05			A3E			BC (2 stations) daily
USKA	7105.0	2212	17	05			A3E			BC (2 stations) daily
USKA	7110.0	1537	01	05			A3E			BC, jammed often
USKA	7110.0	1537	01	05			Noise		10 kHz	Jammer often
USKA	7150.0	1618	01	05			A3E			BC, jammed often
USKA	7150.0	1618	01	05			Noise		10 kHz	Jammer often
USKA	7160.0	1629	02	05			A3E			BC often
USKA	7170.0	1620	01	05			A3E			BC
USKA	7170.0	1628	02	05			Noise		10 kHz	Jammer often
USKA	7175.0	1539	01	05			A3E			BC, jammed often
USKA	7175.0	1539	01	05			Noise		10 kHz	Jammer often
USKA	7180.0	1550	21	05			Noise		10 kHz	Jammer
USKA	7185.0	1552	21	05			A3E			BC
USKA	14000.0	1022	04	05			J3E-U			English, milcom style
USKA	14001.8	0929	04	05			PSK-8	2400	2k4	Burst System
USKA	14008.0	0746	02	05			F1B	50	250	CIS 36-50 often
USKA	14022.0	0958	04	05			F1B	75	250	
USKA	14026.0	0957	05	05			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D
USKA	14108.0	1123	05	05		BXQT	A1A			HPSQ de BXQT
USKA	14135.0	1346	02	05			F1B	75	250	
USKA	14141.0	1324	21	05			F1B	75	500	
USKA	14192.0	0804	02	05			F1B	50	500	almost daily
USKA	14221.0	2244	21	05			F1B	40.5	200	
USKA	14221.0	2223	26	05			F1B	50	200	
USKA	14223.0	0658	29	05			FMCW	66sps	10k	OTHR; Burst system
USKA	14272.0	2142	26	05					2k6	CIS12, idling only
USKA	14272.0	2205	26	05			J7D	12x120	2k6	PSK-4: CIS12 = AT3104D
USKA	14292.0	0809	29	05			F1B	75	500	
USKA	14294.0	1957	26	05			J7D		2k6	CIS12, idling only
USKA	14294.0	2202	26	05			J7D	12x120	2k6	PSK-4: CIS12 = AT3104D
USKA	14294.0	1940	27	05			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D
USKA	14340.0	2106	17	05			FMCW	50 sps	20 kHz	OTHR
USKA	14344.7	1447	01	05			PSK-8	2400	2k4	MIL 188-110A Hybrid, modified.
USKA	18107.0	1622	01	05			F1B	50	200	CIS 36-50 almost daily
USKA	18107.0	1624	01	05			F1B	36	200	CIS 36-50
USKA	18175.0	1329	21	05			FMCW	50 sps	20 kHz	OTHR, splattering into 17m band
USKA	21001.5	0906	01	05			F1B	100	150	almost daily
USKA	21037.0	0746	18	05			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D
USKA	21041.0	0750	18	05			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D
USKA	21042.0	0747	18	05			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D
USKA	21135.0	1711	18	05			FMCW	50 sps	20 kHz	OTHR
USKA	21210.0	1148	01	05			FMCW	50 sps	20 kHz	OTHR
USKA	21350.0	0904	04	05			FMCW	50 sps	20 kHz	OTHR; Burst System
USKA	21380.0	0650	06	05			FMCW	47 sps	10 kHz	OTHR; Burst System
USKA	21390.0	1022	14	05			FMCW	50 sps	20 kHz	OTHR
USKA	21400.0	1628	01	05			FMCW	50 sps	20 kHz	OTHR
USKA	21440.8	1016	07	05			PSK-8	2400	2k4	MIL 188-110A
USKA	28000.0	1602	08	05			FMCW	50 sps	20 kHz	OTHR
USKA	28300.0	1428	13	05			FMCW	50 sps	20 kHz	OTHR
USKA	29000.0	0914	29	05			FMCW	307 sps	-50 kHz	OTHR; Burst system
USKA	29000.0	1021	02	05			FMCW	870 sps	-50 kHz	OTHR; Burst system

## Veron 1 – Netherlands – PA2GRU (Dick)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SHIFT	DETAILS
VERON	3548,0	18.28	4	5	CIS	UiPTR	F1B		Carrier/Revs/Ptr
VERON	7008,0	17.56	14	5		UiPTR	F1B		Ptr
VERON	7038,2	17.55	14	5	RUS	L	A1A		L-beacon
VERON	7038,7	20.52	16	5	UKR	D	A1A		D-beacon
VERON	7038,9	vt	vd	5	RUS	S	A1A		S-beacon
VERON	7038,9	17.49	5	5	RUS	S	A1A		Beacon Murmansk
VERON	7039,0	vt	vd	5	RUS	C	A1A		C-beacon
VERON	7039,3	10.00	15	5	RUS	L	A1A		L-beacon
VERON	7041,0	14.30	1	5	CIS	DJDS	A1A		To: OMV6, GYEE, YCYA: proc
VERON	7041,0	14.40	1	5	CIS	XWR8	A1A		ZAF ZDA ZDS AR
VERON	7041,0	14.51	1	5	CIS	DJDS	A1A		To: 6BMU: proc
VERON	7041,0	14.30	3	5	CIS	DJDS	A1A		To: OMVZ, YCYA, 6BMU, GYEE: proc
VERON	7054,0	06.20	25	5	?	UiPtr	F1B	200	ptr, revs. Stops at 07.00 UTC.
VERON	7054,0	17.00	29	5	?	UiPtr	F1B	200	revs, ptr. Starts at 17.00 UTC
VERON	7054,0	vt	vd	5	CIS	UiPTR	F1B		Revs
VERON	7054,0	17.47	5	5	RUS	UiPtr	F1B	200	Bad filtered signal
VERON	7116,0	22.58	5	5					Frequency hopper
VERON	10108,0	12.10	6	5	CIS	UiCW	F1A		XXX (followed by F1B Revs)
VERON	10108,0	vt	vd	5	CIS	UiPTR	F1B		Carrier/Revs/Ptr
VERON	10130,0	09.13	6	5		UiPTR	F1B		Ptr
VERON	14008,0	09.14	3	5	RUS	UiPtr	F1B	250	Ptr, also 13/5 '06.33 utc
VERON	14008,0	09.12	9	5	CIS	UiPTR	F1B		Carrier/Revs/Ptr
VERON	14026,0	13.17	5	5	RUS	UiMUX	FSK		12 MPSK
VERON	14028,0	09.16	3	5		UiPtr	F1B	200	Ptr
VERON	14081,0	10.15	14	5		UiPTR	F1B		Ptr
VERON	14108,0	09.03	9	5	CIS	2ZJS	A1A		PPPPP 5BL (ending 831 k)
VERON	14108,0	09.05	9	5	CIS	2ZJS	A1A		R 718 ? K (to: ZD3T CMLE LGTB W9BD)
VERON	14108,0	09.07	9	5	CIS	2ZJS	A1A		R 718 ? K (to: EQNK C4D4 ASPK)
VERON	14108,0	10.16	14	5	CIS	NQT5	A1A		Q&Z-codes ZLP QYT6 k
VERON	14130,0	08.37	10	5	RUS	UiPtr	F1B	500	revs
VERON	14130,00	10.25	12	5	?	UiPtr	F1B	500	ptr, revs
VERON	14130,0	14.45	14	5	?	UiPtr	F1B	500	ptr, revs (parallel 14192)
VERON	14130,0	06.44	18	5	?	UiPtr	F1B	500	revs, ptr (parallel 14192 kHz)
VERON	14151,0	08.14	15	5	?		A1A		continuous series of figures. Stops at 08.28
VERON	14185,0	19.43	5	5					Frequency hopper
VERON	14192,0	08.11	1	5	RUS	UiPtr	F1B	500	Ptr
VERON	14192,0	07.41	6	5	RUS	UiPtr	F1B	500	Ptr, also 19.05 utc, 7/5 07.50 utc
VERON	14192,0	08.35	22	5	RUS	UiPtr	F1B	500	Revs
VERON	14192,0	15.00	3	5	RUS	UiPtr	F1B	500	revs, ptr
VERON	14192,0	08.54	4	5	RUS	UiPtr	F1B	500	revs, ptr
VERON	14192,0	08.40	10	5	RUS	UiPtr	F1B	500	revs
VERON	14192,0	10.25	12	5	RUS	UiPtr	F1B	500	ptr, revs
VERON	14192,0	10.25	12	5	RUS	UiPtr	F1B	500	(N.B. 14130 and 14192 kHz parallel)
VERON	14192,0	14.45	14	5	RUS	UiPtr	F1B	500	ptr, revs (parallel 14130)
VERON	14192,0	06.44	18	5	RUS	UiPtr	F1B	500	revs, ptr (parallel 14130 kHz)
VERON	14192,0	06.20	25	5	?	UiPtr	F1B	200	ptr, revs
VERON	14192,0	vt	vd	5	RUS	UiPTR	F1B		Revs
VERON	14192,0	12.24	5	5	RUS	UiPtr	F1B	500	
VERON	14195,0	09.20	6	5		UiBC	A3E		Distorted music
VERON	14241,0	08.44	9	5	CIS	UiCW	A1A		rpt al QRJ? K SK
VERON	18107,0	13.22	5	5	RDL	UiPTR	F1B		Ptr
VERON	21001,5	08.15	1	5	RUS	UiPtr	F1B	150	Ptr Yaktha Jekatrinnburg
VERON	21042,0	07.38	6	5	RUS	UiMUX	FSK		12 MPSK



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

**Many thanks for your interest!**

## **credits:**

**Wavecom Elektronik – Buelach – Switzerland**

**SSB-Electronic – Iserlohn – Germany**

**BAZ – Special Antennas – Bad Bergzabern - Germany**

**FTS – Funktechnik Seipelt – Hoppegarten - Germany**

**German PTT (BNetzA = Federal Network Agency)**

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