



# Monitoring System

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The monthly newsletter for Region 1

## August 2012

The 24 members of the IARUMS Region 1 Monitoring Team:



### Acknowledgements

++ ARI: DH7SA – Salvatore ++ ARSK: 5Z4NU - Ted ++ ASTRA: DL1BDF – Mustapha ++ DARC: DJ9KR – Uli ++  
++ ERASD: SU1SA – Sayed ++ IARC: 4Z1AB – Amos ++ IRTS: EI5DD - Steve ++ KARS: 9K2RR – Faisal ++  
++ MARL: 9H1M – Dominic ++ MRASZ: HA7PL - Laci ++ NARS: 5N9AYM – Yusuf ++ NRRL: LA4EU – Hans Arne ++  
++ OEVS: OE3GSA – Gerd ++ PZK: SP3SUZ – Wladyslaw ++ RAL: OD5RI – Riri ++ REP: CT4AN – Jose ++  
++ RSGB: G4BOH - Chris ++ SARL: ZS1FCS - Fred ++ SRAL: OH2BLU - Pekka ++ UBA: ON4VJ - Johny ++  
++ URE: EA5DY - Salvador ++ 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

Part 2: Detailed reports of the national co-ordinators

# Part 1: News and Infos

## 1. CODAR on 14070 – 14125 kHz

The CODAR in North East India seems to have finished the transmissions. No longer audible on Sep. 1<sup>st</sup>.

## 2. 14295.1 kHz – Radio Tajik – endless disaster

The Tajik PTT got complaints from the German BNetzA, UK OFCOM and Swiss BAKOM. But we were still suffering by the Radio Tajik harmonic on 4765 kHz. No reaction, no change.

## 3. Radio Bangladesh on 7105 kHz – problem solved! Reported by DJ9KR!

Dear fellow intruder busters, since 13 August 2012 Radio "Bangladesh Betar" has been transmitting every day programs in English and Bengali language on the exclusive Amateur Radio frequency 7105 kHz. Here is the program schedule:

Time (UTC)	Program
*****	*****
1745-1800	carrier
1800-1900	English (General Overseas Service)
1900-1915	carrier and/or measuring tone
1915-2000	Bengali Service
2000-2015	carrier with white noise, 10 kHz spread

The homepage of R.Bangladesh Betar tells "7250 kHz" as transmission frequency.

URL of R.Bangladesh Betar with tx-ion sked: [www.betar.org.bd/frequency.html](http://www.betar.org.bd/frequency.html)

In the meantime: **Great success! Radio Bangladesh has left 7105 kHz. They finished the experimental transmissions on 7105 kHz. Now they are using 7250 kHz. Many thanks to the German BNetzA, OFCOM, Bakom and all involved Hams for the excellent support! DK2OM and DJ9KR**

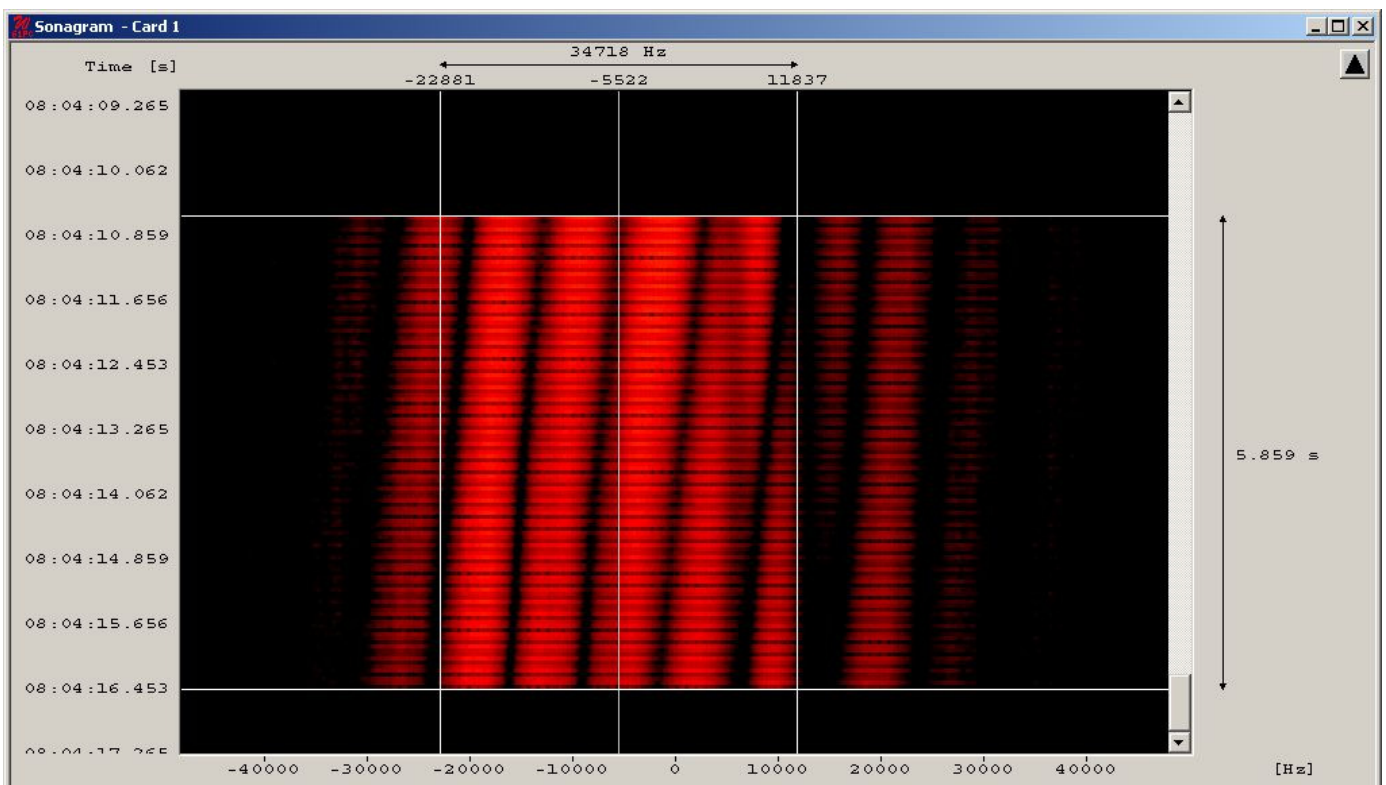
## 4. Unid burst Radar on 4 bands – no longer active!

I found a unid burst system on 3.500 – 7.000 – 14.000 – 21.000 MHz, daily active every full hour + 1., + 2, + 3 min. with 10.4 sec. bursts of 20 kHz width. The signals came from France. I observed the band edges and did not find the burst systems any longer on August 29<sup>th</sup>. **Many thanks to the German BNetzA for successful support!**

## 5. OTH Radar from Middle East on 28 - 29 MHz

An OTH Radar from Middle East was daily causing strong interference on 28 – 29 MHz. The bursts were often 44 – 50 kHz wide.

**Screenshot: Sonagram with Wavecom W61 – IF-analysis (DK2OM)**



- 6. Homepage IARU Region 1 <http://www.iaru-r1.org/>
- Homepage IARUMS Region 1 <http://www.iarums-r1.org>
- Homepage IARUMS Region 2 <http://www.iaru-r2.org/>
- Homepage IARUMS Region 3 <http://www.iaru-r3.org/ms/>
- Intruderlogger Region 1 <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 = othogonal frequency division multiplex  
**ALE (MIL-188-141A)** = automatic link establishment \*\*\* MUX = multiplex \*\*\* **Ui (unid)** = 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 \*\*\* **pps** = pulses per second (earlier radar systems) \*\*\* **sps** = sweeps/sec (radar systems) \*\*\* **FMCW** = frequency modulated continuous wave (OTH and coastal Radars)  
**5BL** = 5 cyrillic lettergroups

### ARSK MONITORING OVERVIEW FOR AUGUST 2012

The broadcasts from Khartoum on 7200 kHz, Addis Ababa and Asmara (Eritrea) on other 40 meter frequencies between 7100 and 7200 kHz continued as usual. Otherwise the few DRC stations in French or vernaculars were observed.

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	7030.0	1426	16	8	DRC?	UiPHOE	J3Eu	French, vernacular.
ARSK	7075.0	vt	dly	8	DRC?	UiPhone	J3Eu	Unidentified, probably DRC.
ARSK	7100.0	1429	16	8	DRC?	UiPhone	J3Eu	French, vernacular.
ARSK	7110.0	1430	16	8	ERI?	UIBC	A3E	VOBM Eritrea?
ARSK	7074.0	1430	15	8	DRC?	UiPHONE	J3E	Vernacular, Selcal.
ARSK	7110.0	1435	15	8	ERI?	UiBC	A3E	Music.
ARSK	7175.0	vt	dly	8	ERI?	UiBC	A3E	VoBM, Eritrea.
ARSK	7190.0	vt	var	8	ERI? ETH?	UiBC	A3E	Possibly VOBM or Addis Ababa.
ARSK	7200.0	vt	dly	8	SDN	Khartoum	A3E	Broadcast, Khartoum.

#### DARC 1 – Germany – DJ9KR (Ui)

BC transmissions, IM products, harmonics = blue

CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	Remarks and Comments
DARC	3590,0	1800	dly	08	E	UiILL	J3E-U	Spanish fishery, no idents - DK2OM
DARC	7000,0	2349	01	08		UiILL	J3E-L	2 male persons in Portuguese voice, Portugal or Brasil
DARC	7000,0	vt	02	08	I	UiILL	J3E-L	2 male persons in Italian voice
DARC	7000,0	0237	07	08		UiILL	J3E-L	male voice
DARC	7000,0	2053	17	08	I	UiILL	J3E-L	net of Italian male persons, other than 7000,2 activity at the same time
DARC	7000,0	1648	21	08	I	UiILL	J3E-L	OP Angelo, 2 male persons in Italian voice, LSB is out of ham band
DARC	7000,0	vt	30	08	I	UiILL	J3E-L	2000 - 2030: large net, Italian male persons. Their language is that of radio amateurs
DARC	7000,0	vt	vd	08	E	UiiLL	J3E-U	Spanish fishery
DARC	7000,0	vt	vd	08	INS	UiILL	J3E	Indonesian pirates, using SSB-USB and alternatively SSB-LSB, daily - heard at 1640, 1900
DARC	7007,5	2107	01	08		UiILL	J3E-U	unid male voices, unid language, poss. MRC
DARC	7008,0	2030	20	08	RUS	UiPTR	F1B	printer, RUS MIL Moscow
DARC	7009,0	vt	03	08	RUS	V.o.Russia	A3E	church bells ringing at s/off 2100
DARC	7009,0	2049	20	08	RUS	V.o.Russia	A3E	Orthodox divine service
DARC	7009,0	vt	vd	08	RUS	V.o.Russia	A3E	is IM 1089 x 5920, location Krasnodar-Armavir Tbilisskaya - heard all month 1950 - 2100
DARC	7010,0	vt	vd	08	RUS	UiMUX	PSK2	AT-3004-D, location nw of Smolensk

CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	Remarks and Comments
DARC	7038,7	vt	dly	08	UKR	beacon D	A1A	beacon "D" - Sevastopol, heard 0045, 1800, 2230
DARC	7038,9	vt	vd	08	RUS	beacon S	A1A	beacon "S" - Severomorsk
DARC	7039,0	vt	vd	08	RUS	beacon P	A1A	beacon "P" - Kaliningrad
DARC	7039,0	vt	vd	08	RUS	beacon C	A1A	beacon "C" - Moscow heard 0700, 1800, 1900
DARC	7039,1	vt	vd	08	KGZ	beacon A	A1A	beacon "A" - Bishkek
DARC	7039,2	2346	01	08	RUS	beacon L	A1A	beacon St. Petersburg
DARC	7039,2	vt	vd	08	RUS	beacon F	A1A	beacon "F" - Vladyvostok
DARC	7039,2	vt	vd	08	RUS	beacon L	A1A	beacon "L" - St. Petersburg
DARC	7039,4	vt	vd	08	RUS	beacon K	A1A	beacon "K" - Petropavlovsk
DARC	7039,5	vt	vd	08	RUS	beacon M	A1A	beacon "M" - Magadan
DARC	7042,0	2017	30	08		UiMUX	FSK8	ALE heard
DARC	7048,0	2350	01	08		UiPTR	F1B	unid printer
DARC	7051,5	2017	30	08		UiMUX	XXX	mux, humming noise
DARC	7054,0	2346	01	08	RUS	UiPTR	F1B	is RUS Navy Moscow
DARC	7054,0	0123	21	08	RUS	UiPTR	F1B	fast reversals
DARC	7054,0	h24	vd	08	RUS	RUS Navy	F1B	RUS Navy Moscow
DARC	7056,0	1936	02	08		UiMUX	XXX	multiplex
DARC	7095,0	0123	21	08		UiPTR	F1B	unid printer
DARC	7100,0	vt	15	08		UiPTR	F1B	unid printer heard 0315 - 0513
DARC	7100,0	vt	19	08	I	UiILL	J3E-U	2 male persons in Italian dialect, engine noise (fishery?)
DARC	7100,0	1525	vd	08	ETH	Govt. Jam	JAM	white noise jammer
DARC	7100,0	1525	vd	08	ERI	VOBME	A3E	under wn-jammer
DARC	7100,0	1745	vd	08	ERI	VOBME	A3E	HOA mx S9, weak modulation, found // 7165
DARC	7100,5	0709	20	08		UiCAR	N0N	long lasting carrier
DARC	7101,0	0707	20	08		UiMUX	XXX	8 channels
DARC	7102,0	vt	vd	08		UiPTR	F1B	unid printer heard all month at 1350 - 1800
DARC	7103,5	0709	20	08		UiMUX	XXX	8 channels
DARC	7105,0	2101	01	08		UiCAR	N0N	long lasting carrier with hum, S9+20dB
DARC	7105,0	1910	02	08	TUN	RTV Tunisia	A3E	Arabic music
DARC	7105,0	2024	02	08		UiBC	A3E	unid BC
DARC	7105,0	1719	03	08		UiPTR		ALE heard
DARC	7105,0	2035	03	08	TUN	RTV Tunisia	A3E	Arabic px
DARC	7105,0	2155	04	08	CHN	Soh Xi Wang Zhi Sheng	A3E	Chinese px, s/on 2155
DARC	7105,0	1909	14	08	BGD	Radio Bangladesh	N0N	long lasting carrier 1900 - 1915 - is Radio Bangladesh Betar
DARC	7105,0	2023	15	08	TUN	RTV Tunisia	A3E	Ar mx, is IM 7225 x 7345
DARC	7105,0	2200	15	08	CHN	Soh Xi Wang Zhi Sheng	A3E	Chinese px S9+20dB
DARC	7105,0	vt	15	08	BGD	Radio Bangladesh	A3E	1900 - 2000: Bengali px 2000: s/off with "khuda hafiz", then white noise signal 10 kHz spread till 2022
DARC	7105,0	2155	16	08	TWN	Sound of Hope	A3E	under Chinese BC which is used as a jammer, 2135 - 2220
DARC	7105,0	2155	16	08	CHN	Soh Xi Wang Zhi Sheng	A3E	Chinese BC which is used as a jammer, 2200 - 2300
DARC	7105,0	vt	16	08	TUN	RTV Tunisia	A3E	heard 1915 - 2108 s/off
DARC	7105,0	vt	16	08	BGD	Radio Bangladesh	A3E	1745: carrier, still there 1802 - 1940
DARC	7105,0	vt	16	08	BGD	Radio Bangladesh	N0N	1745 - 2000: carrier with slight hum
DARC	7105,0	7105	17	08	BGD	Radio Bangladesh	A3E	not heard

CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	Remarks and Comments
						h		
DARC	7105,0	vt	17	08	TUN	RTV Tunisia	A3E	heard till s/off at 2108
DARC	7105,0	vt	17	08	BGD	Radio Banglades h	A3E	no transmissions heard
DARC	7105,0	2011	20	08	TUN	RTV Tunisia	A3E	typical music
DARC	7105,0	vt	20	08	BGD	Radio Banglades h	A3E	not heard on 7105, but is active on 7250
DARC	7105,0	2205	22	08	CHN	Soh Xi Wang Zhi Sheng	A3E	Chinese px on Sound of Hope
DARC	7105,0	2205	22	08	TWN	Sound of Hope	A3E	covered by white noise jammer
DARC	7105,0	vt	22	08	BGD	Radio Banglades h	A3E	1745 - 2000
DARC	7105,0	2200	27	08	CHN	Soh Xi Wang Zhi Sheng	A3E	Chinese BC which is used as a jammer, 2200 - 2300
DARC	7105,0	2200	27	08	TWN	Sound of Hope	A3E	under Chinese BC which is used as a jammer, 2200 - 2300
DARC	7105,0	vt	dly	08	TUN	RTV Tunisia	A3E	active daily 1857 - 2108, already heard Juli- December 2009
DARC	7110,0	2340	01	08	BRM	R.Myanm ar	A3E	is active
DARC	7110,0	0105	02	08	BRM	R.Myanm ar	A3E	typical music
DARC	7110,0	0000	24	08	BRM	R.Myanm ar	A3E	typical music
DARC	7110,0	0015	vd	08	BRM	R.Myanm ar	A3E	Asian mx 0015 - 0045, 2340
DARC	7110,0	1545	vd	08	ERI	VOBME	A3E	under heavy jam by ETH
DARC	7110,0	1545	vd	08	ETH	Govt. Jam	JAM	heavy white noise jam
DARC	7111,0	2350	01	08		UiILL	J3E-U	2 male persons in Portuguese voice
DARC	7111,0	0105	02	08		UiILL	J3E-U	2 male persons in Portuguese voice
DARC	7111,0	2102	13	08		UiPTR	F1B	unid printer
DARC	7111,0	vt	14	08		UiPTR	F1B	heard 1619 - 1843
DARC	7114,0	1747	17	08		UiPTR	F1B	reversals with occasional printer
DARC	7115,0	1630	vd	08	ERI	VOBME	A3E	is active
DARC	7115,0	1630	vd	08	ETH	Govt. Jam	JAM	white noise jammer on VOBME
DARC	7117,0	vt	vd	09	RUS	UiCW	F1A	fast reversals most of the time, with occasional CW in F1A, Russian letters, very harmful!, location Kaliningrad
DARC	7120,0	vt	18	08	ERI	VOBME	A3E	under white noise jammer, heard 1610 - 1701
DARC	7120,0	vt	18	08	ETH	Govt. Jam	JAM	white noise jammer, heard 1610 - 1701
DARC	7120,0	1628	20	08	ETH	Govt. Jam	JAM	white noise jammer on VOBME
DARC	7120,0	1628	20	08	ERI	VOBME	A3E	under white noise jammer of ETH Govt.
DARC	7120,0	vt	30	08	SOM	Radio Hargeisa	A3E	1440 - 1600 heard by John, Durham, New Zealand and 1545 - 1900 by SWL Hasegawa, Japan
DARC	7120,0	1820	31	08	SOM	Radio Hargeisa	A3E	heard by Vitaly Lisorskiy, Kharkiv, UKR
DARC	7120,0	1800	dly	08	SOM	Radio Hargeisa	A3E	1st reported 30 August by DF5SX, yet not heard in DL
DARC	7122,0	2102	13	08		UiPTR	F1B	unid printer
DARC	7122,0	vt	14	08		UiPTR	F1B	heard 1619 - 2007
DARC	7122,0	2045	20	08		UiMUX	PSK2	AT-3004-D
DARC	7122,0	2117	22	08		UiMUX	PSK2	AT-3004-D
DARC	7124,0	1829	20	08		UiMUX	PSK2	AT-3004-D
DARC	7152,6	1614	03	08		UiPTR	F1B	fast reversals
DARC	7155,0	2027	07	08		UiMUX	PSK2	AT-3004-D
DARC	7160,0	1733	vd	08	ETH	Govt. Jam	JAM	heavy white noise jam
DARC	7160,0	1733	vd	08	ERI	VOBME	A3E	under heavy white noise jam
DARC	7165,0	1723	14	08	ETH	ETH Govt	JAM	white noise jammer

CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	Remarks and Comments
						Jammer		
DARC	7165,0	1648	vd	08	ERI	VOBME	A3E	under heavy jam by ETH
DARC	7165,0	1648	vd	08	ETH	Govt. Jam	JAM	heavy jam by ETH
DARC	7165,0	1745	vd	08	ERI	VOBME	A3E	Ar px S9+20dB, found // 7100
DARC	7165,0	vt	vd	08	ERI	VOBME	A3E	seems to be main tx-ing frequency
DARC	7166,0	vt	14	08		UiMUX	PSK2	AT-3004-D , BPS, heard 1619 - 2005, location area of Mosocw
DARC	7170,0	1758	18	08	ERI	VOBME	A3E	typical HOA music
DARC	7175,0	1535	03	08	ETH	Govt. Jam	JAM	white noise jammer 1540 - 1753
DARC	7175,0	1535	03	08	ERI	VOBME	A3E	under wn-jammer 1540 - 1753
DARC	7175,0	vt	11	08	ERI	VOBME	A3E	px in Arabic voice, s/off with Ntl. Anthem "Yiritriya", heard 1735 - 1801 s/off
DARC	7175,0	vt	12	08	ERI	VOBME	A3E	covered by white noise jammer
DARC	7175,0	1619	16	08	ETH	Govt. Jam	JAM	white noise jammer
DARC	7175,0	1627	23	08	ETH	Govt. Jam	JAM	white noise jammer on VOBME
DARC	7175,0	1627	23	08	ERI	VOBME	A3E	under white noise jammer of ETH Govt.
DARC	7175,0	vt	26	08	ERI	VOBME	A3E	HOA music, heard 1731 - 1747
DARC	7180,0	0332	02	08	ERI	VOBME	A3E	Arabic px
DARC	7180,0	0315	15	08	ERI	VOBME	A3E	is active, HOA music, S9+20dB
DARC	7180,0	1643	17	08	ERI	VOBME	A3E	is active, covered by white noise jam from ETH
DARC	7180,0	1643	17	08	ETH	ETH Govt Jammer	JAM	white noise jammer of ETH government
DARC	7180,0	1800	22	08	ERI	VOBME	A3E	HOA music, s/off at 1801 with song "Yiritriya"
DARC	7180,0	0525	23	08	ERI	VOBME	A3E	covered by white noise jammer
DARC	7180,0	0525	23	08	ETH	Govt. Jam	JAM	white noise jammer
DARC	7180,0	1749	23	08		UiBC	A3E	HOA music
DARC	7180,0	0432	28	08	ETH	Govt. Jam	JAM	heavy wn jammer from ETH s/on
DARC	7180,0	1540	vd	08	ERI	VOBME	A3E	under heavy wn jammer from ETH
DARC	7180,0	1540	vd	08	ETH	Govt. Jam	JAM	heavy wn jammer from ETH
DARC	7184,0	2102	13	08		UiPTR	F1B	unid printer
DARC	7185,0	1636	02	08	ETH	Govt. Jam	JAM	white noise jammer s/on, heard 1636 - 1657
DARC	7185,0	vt	02	08		UiBC	A3E	Arabic px, heard 1634 - 1657
DARC	7185,0	1719	03	08	ERI	VOBME	A3E	HOA music, heard 1719 - 1802 s/off
DARC	7185,0	1432	vd	08	ETH	Govt. Jam	JAM	white noise jammer
DARC	7185,0	1432	vd	08	ERI	VOBME	A3E	covered by white noise jammer
DARC	7187,0	0123	21	08		UiMUX		AT-3004-D
DARC	7189,7	0055	01	08	CLN	SLBC Sri Lanka	A3E	S9+15dB, QSB
DARC	7189,7	0105	02	08	CLN	SLBC Sri Lanka	A3E	typical music
DARC	7189,7	0015	03	08	CLN	SLBC Sri Lanka	A3E	measuring tone
DARC	7189,7	0121	03	08	CLN	SLB Sri Lanka	A3E	typical music heard 13, 22, 27 - times 0121, 0215, 2213
DARC	7189,7	0123	21	08	CLN	SLBC Sri Lanka	A3E	is active, giving address at 0129
DARC	7189,7	vt	vd	08	CLN	SLB Sri Lanka	A3E	heard 0020 - 0105
DARC	7190,0	1654	15	08	ERI	VOBME	A3E	BC under white noise jammer
DARC	7190,0	1654	15	08	ETH	Govt. Jam	JAM	white noise jammer covering VOBME
DARC	7190,0	0426	23	08	ERI	VOBME	A3E	HOA music - report DF5SX
DARC	7190,0	1608	vd	08	ERI	VOBME	A3E	under heavy jam by ETH
DARC	7190,0	1608	vd	08	ETH	Govt. Jam	A3E	under heavy jam by ETH
DARC	7192,0	0915	07	08		UiPTR	F1B	fast reversals
DARC	7195,0	2027	dly	08		UiMUX	XXX	bubbling signal just below 7200 kHz
DARC	7195,0	1440	vd	08	ERI	VOBME	A3E	jingle, found // to R.Ethiopia on the same QRG
DARC	7195,0	1545	vd	08	ETH	R.Ethiopia	A3E	jingle, found // to VOBME on the same QRG
DARC	7200,0	1735	01	08		UiBC	A3E	unid BC, weak
DARC	7200,0	vt	01	08		UiBC	A3E	heard 2049 - 2100 s/off
DARC	7200,0	0332	02	08	SDN	R.Omdurman	A3E	Arabic px
DARC	7200,0	0332	02	08	IRN	IRIB	A3E	faintly audible below R.Omdurman
DARC	7200,0	1855	02	08	SDN	R.Omdur	A3E	Arabic px

CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	Remarks and Comments
						man		
DARC	7200,0	vt	02	08		UiBC	A3E	heard 1634, 2037
DARC	7200,0	0332	03	08	SDN	R.Omdurman	A3E	Ar px
DARC	7200,0	1614	03	08	ERI	VOBME	A3E	covered by white noise jammer
DARC	7200,0	1614	03	08	ETH	Govt. Jam	JAM	white noise jammer
DARC	7200,0	vt	03	08	ETH	R.Ethiopia	A3E	French px heard 1719 - 1800 s/off
DARC	7200,0	2005	06	08	SDN	R.Omdurman	A3E	Ar px
DARC	7200,0	0237	07	08	SDN	R.Omdurman	A3E	Holy Qur' an recitals, Ar px, ann: "Huna Omdurman"
DARC	7200,0	1928	07	08		UiBC	A3E	unid BC
DARC	7200,0	0315	15	08	SDN	R.Omdurman	A3E	Ar px S9+20dB
DARC	7200,0	1654	15	08	ETH	Ext. Serv. R. Ethiopia	A3E	En px, ann: "This is the External Service of Radio Ethiopia", Box 654 Addis Ababa
DARC	7200,0	1701	15	08	ETH	Ext. Serv. R. Ethiopia	A3E	1701: s/on French px, still on at 1654 - 1707: ann.: "This is the External Service of Radio Ethiopia, Box 654 Addis Ababa"
DARC	7200,0	2009	15	08		UiBC	A3E	unid BC
DARC	7200,0	2009	15	08		UiPTR	F1B	reversals
DARC	7200,0	vt	16	08		UiBC	A3E	Ar px heard 1743 - 2010
DARC	7200,0	1643	17	08	ETH	R.Ethiopia	A3E	En px with western music
DARC	7200,0	1747	17	08		UiBC	A3E	big carrier, weak audio
DARC	7200,0	1607	vd	08	AFG	Ntl. Radio of Afghanistan	A3E	not heard in July
DARC	7200,0	2110	vd	08	IRN	IRIB	A3E	Japanese px S9+25dB - 2058 - 2121 - not heard in July
DARC	7205,0	1900	02	08	THA	R.Thailand	A3E	Radio Thailand World Service in English, harmful splatters into ham band
DARC	7205,0	0053	21	08		UiBC	A3E	extremely harmful splatters, BC totally overmodulated, carrier rocking
DARC	7205,0	2000	dly	08		UiBC	A3E	French px, splattering down till 7185 heavily
DARC	10101,0	1900	dly	08	Af	UiILL	J3E-U	African Tribal language, 1900, 2000
DARC	10115,0	2130	dly	08	E	UiILL	J3E-U	Spanish fishery
DARC	10121,0	vt	vd	08	S.As	UiILL	J3E-U	male persons, S.As language
DARC	10121,5	2139	vd	08	MRC	UiILL	J3E-U	Moroccan fishery
DARC	10125,0	vt	vd	08	POR	UiILL	J3E-U	2 male persons in Portuguese voice
DARC	10131,0	2113	13	08	MRC	UiILL	J3E-U	male net in Arabic
DARC	10133,0	1615	16	08	S.As	UiILL	J3E-U	2 male persons, S.As language
DARC	10135,0	vt	vd	08		UiILL	J3E-U	unid pirates, unid language
DARC	10135,6	vt	vd	08		UiILL	J3E-U	unid pirates heard 2000 - 2100 UTC
DARC	10150,0	1800	07	08		UiILL	J3E-U	unid male voices
DARC	10150,0	1849	17	08	MRC	UiILL	J3E-U	Moroccan fishery
DARC	10150,0	0731	29	08	E	UiILL	J3E-U	2 male persons in Spanish voice, S9-signal - USB is outside ham band
DARC	10150,0	1800	dly	08	E	UiILL	J3E-U	Spanish and Moroccan fishery
DARC	14000,0	vt	dly	08	MRC	UiILL	J3E-U	Moroccan fishery
DARC	14000,0	vt	dly	08	INS	UiILL	J3E-U	Far East pirates, singing and fooling around, heard 1500, 1800
DARC	14000,0	1500	vd	08	INS	UiILL	J3E-U	Indonesian pirate net
DARC	14000,0	vt	vd	08	B	UiILL	J3E-U	Brazilian pirates
DARC	14005,0	1900	dly	08	CLN	UiILL	J3E-U	Sinhala fishery
DARC	14008,0	vt	vd	08	RUS	UiPTR	F1B	location is Moscow
DARC	14060,0	vt	vd	08	ISR	UiPTR	FSK8	ALE, heard by DK2OM
DARC	14075,0	vt	dly	08	IND	Sea Wave Radar	FMCW	heard 14075 - 14115 kHz at 1500 - 2100 UTC - location Gulf of Bengal
DARC	14095,0	vt	dly	08	INS	UiILL	J3E-U	Indonesian pirate net, singing, chatting
DARC	14100,0	vt	dly	08	INS	UiILL	J3E-U	Indonesian pirate net, singing, chatting
DARC	14105,0	vt	dly	08	INS	UiILL	J3E-U	Indonesian pirate net, singing, chatting
DARC	14107,8	1031	23	08		UiCW	A1A	Cyrillic morse
DARC	14110,0	vt	05	08		UiPTR	F1B	unid printer heard 0554 - 0621
DARC	14110,0	0801	28	08		UiMUX	FSK8	ALE heard

CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	Remarks and Comments
DARC	14192,0	1316	18	08	RUS	RUS Navy	F1B	printer, is RUS Navy Kaliningrad
DARC	14192,0	0737	20	08	RUS	RUS Navy	F1B	fast reversals, is RUS Navy Kaliningrad
DARC	14192,0	1031	23	08	RUS	UiPTR	F1B	fast reversals
DARC	14210,4	0919	07	08	RUS	UiPTR	F1B	printer
DARC	14295,1	vt	02	08	TJK	R.Tajikistan	A3E	"pumping" carrier, heard 0624 - 0828
DARC	14295,1	vt	dly	08	TJK	R.Tajikistan	A3E	3f de 4765, daily heard 0730 - 1000, 1500, 1600
DARC	14302,0	0733	20	08		UiMUX	PSK2	AT-3004-D
DARC	14317,7	0733	20	08		UiCAR	N0N	long lasting carrier
DARC	14344,7	vt	dly	08	CLN	UiMUX	PSK8	bursts of MIL-188-110A variant - DK2OM
DARC	18126,0	vt	01	09	CUB	R.Habana Cuba	A3E	heard 1325-1500 s/off with Ntl. Anthem, found // 15230 - tx-er IM? - report DL5HAQ, also heard by DJ9KR "esta es Radio Habana Cuba"
DARC	21000,0	1855	22	08	E	UiILL	J3E-U	Spanish male traffic, engine noise
DARC	21000,0	vt	vd	08	RUS	UiPTR	F1B	vocoder YAKTHA with inband synchro - DK2OM
DARC	21100,0	vt	24	08		UiOTHR	FMCW	OTH-Radar located Cyprus or Turkey - reported by DG0JBJ
DARC	21105,0	vt	24	08		UiOTHR	FMCW	OTH-Radar located Cyprus or Turkey - reported by DG0JBJ
DARC	21121,2	1755	25	08	MRC	UiILL	J3E-U	Moroccan fishery - DK2OM
DARC	21128,6	0930	07	08	KRE	UiPTR	F1B	DPRK-FSK-600, is Northkorean Diplo - DK2OM
DARC	21145,0	vt	24	08		UiOTHR	FMCW	OTH-Radar located Cyprus or Turkey - reported by DG0JBJ
DARC	21210,0	vt	25	08		UiOTHR	FMCW	OTH-Radar located Cyprus or Turkey - reported by DG0JBJ
DARC	21235,0	vt	24	08		UiOTHR	FMCW	OTH-Radar located Cyprus or Turkey - reported by DG0JBJ
DARC	21323,3	0925	24	08	CHN	UiMUX	PSK4	PRC4+4, idle and traffic - DK2OM
DARC	21410,4	0652	06	08		UiPTR	F1B	unid printer, harmonic 10705
DARC	21430,0	vt	24	08		UiOTHR	FMCW	OTH-Radar located Cyprus or Turkey - reported by DG0JBJ
DARC	21470,0	vt	24	08		UiOTHR	FMCW	OTH-Radar located Cyprus or Turkey - reported by DG0JBJ
DARC	28000,0	vt	vd	08		Fishnet Buoys	A1A	DJ7KG, DK2OM, G3YBT, and KG4GVV have sent to DARC-MS 139 reports re. Fishnet Buoys in the range 27999,6 - 28442,1 kHz - pse hit <a href="http://www.iarums-r1.org/iarums/buoys.pdf">www.iarums-r1.org/iarums/buoys.pdf</a>
DARC	28120,0	vt	31	08		UiOTHR	FMCW	2 different tones given with a short break - 50 kHz spread - report DG0JBJ
DARC	28300,0	0913	29	08		UiOTHR	FMCW	2 different tones given with a short break - widebanded as 28220 - 28380 - report DG3LAR
DARC	28365,0	vt	30	08		UiOTHR	FMCW	2 different tones given with a short break heard 0655-0820 - 50 kHz spread - report DG0JBJ
DARC	28375,0	vt	30	08		UiOTHR	FMCW	2 different tones given with a short break heard 0644-0820 - widebanded as 28350 - 28400 - report DG0JBJ
DARC	28720,0	vt	31	08		UiOTHR	FMCW	2 different tones given with a short break - 50 kHz spread - report DG0JBJ
DARC	29000,0	vt	31	08		UiOTHR	FMCW	2 different tones given with a short break heard 0810-0825 - 50 kHz spread - report DG0JBJ
DARC	29350,0	vt	31	08		UiOTHR	FMCW	2 different tones given with a short break heard 0705-0810 - 50 kHz spread - report DG0JBJ
DARC	29400,0	vt	31	08		UiOTHR	FMCW	2 different tones given with a short break heard 0700-0705 - 50 kHz spread - 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)**

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	1812,0	vt	vd	08	POL		A3E			Polish “PIP” – 10 tones – navigation system - North-Poland – Baltic coast - POL Navy – legal operation (ITU footnote)
DK2OM	1876,8	ady	dly	08	G		PSK8	2400	2400	Stanag4285 - 1200 bps long - Scotland (legal)
DK2OM	1881,4	ady	dly	08	F		QPSK	100	100	BC-PSK – Radio Navigation – Nantes – France (legal)
DK2OM	1896,5	ady	dly	08	D		PSK8	2400	2400	Stanag4285 - 600 bps long - German Navy (legal)
DK2OM	3500,0	vt	dly	08	TUR	no ITU	FSK8	125	1750	ALE, “2015” “2016” “1020” “3010”- Turkish Red Crescent - legal
DK2OM	3500,0	2006	01	08	E		USB			Spanish fishery - also with vocoder CRY2001
DK2OM	3500,0	2046	05	08	HOL		USB			Dutch fishery
DK2OM	3500,0	2022	15	08	E	no calls	USB			Spanish fishery
DK2OM	3501,5	2150	16	08	BLR		F1B	75	200	Minsk
DK2OM	3503,5	vt	dly	08	G	no ITU	FSK8	125	1750	ALE – “XSS” “XPU” – British MIL Tascomm
DK2OM	3503,7	2034	27	08	ISR		PSK4	75	2600	MIL188-110A hybrid modem
DK2OM	3509,5	2028	15	08	UKR		F1B	40.5	250	system Frost1 – north east of Lviv
DK2OM	3510,0	vt	dly	08	ALG	no ITU	FSK8	125	1750	ALE, “JE30” “PT30”
DK2OM	3511,5	1957	02	08	UKR		PSK2	120	2600	AT3004D –west of Vinnytsia
DK2OM	3520,0	1908	28	08	E		USB			Spanish fishery
DK2OM	3525,0	2019	23	08	RUS		F1B	75	200	area of Tver
DK2OM	3526,0	2020	09	08	RUS		PSK2	120	2600	AT3004D – area of Velikije Luki
DK2OM	3527,0	2210	13	08	RUS		F1B	50	200	Severomorsk
DK2OM	3530,2	2015	28	08	F		PSK4	14 x 75	2300	Link11-CLEW (inv.) – ship west of Brest – 3530.24 kHz
DK2OM	3532,0	vt	dly	08	ALG	no ITU	FSK8	125	1750	ALE, “UN3” “VQ30”
DK2OM	3533,0	vt	dly	08	E	no ITU	FSK8	125	1750	ALE, “TYBB1” “TYVC1” “TCS” “TYVV1” - Spanish Guardia Civil
DK2OM	3541,0	2155	16	08	BLR		F1B	75	200	Minsk
DK2OM	3543,1	2052	13	08	FEa		LSB			Far East persons
DK2OM	3545,0	vt	dly	08	ALG	no ITU	FSK8	125	1750	ALE, “FL49” “FL57” “PT50” - ALG MIL + voice traffic USB and scrambler
DK2OM	3550,0	0630	dly	08	F		A3E			French amateurs not respecting bandplans
DK2OM	3550,7	1955	07	08	ISR		PSK4	75	2600	MIL188-110A hybrid modem, also: 13.08.12 at 1830 utc
DK2OM	3552,0	2220	31	08	RUS		F1B	50	250	Severomorsk
DK2OM	3553,8	ady	dly	08	TUR		PSK8	2400	2400	Stanag4285 – TUR MIL - Ankara
DK2OM	3555,0	1940	19	08	G		USB			UK fishermen, very obscene
DK2OM	3558,0	vt	dly	08			FSK8	125	1750	ALE, “403”
DK2OM	3560,0	1838	29	08			A3E			unid BC – IM?
DK2OM	3564,5	1953	17	08	F	no calls	USB			voice traffic in French voice
DK2OM	3570,0	2000	08	08			USB			Scandinavian male persons – disturbing PSK31
DK2OM	3571,0	2018	08	08	UKR		PSK2	120	2600	AT3004D – south of Kyiv
DK2OM	3574,0	2012	03	08	RUS		PSK2	120	2600	AT3004D – Kaliningrad – also: 09.08.12 at 2022 utc
DK2OM	3585,0	1700	dly	08	TWN	HLL	F1C			120 rpm, IOC 576, Wxfax -

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										legal!
DK2OM	3587,0	vt	dly	08	E	no ITU	FSK8	125	1750	ALE, "TVV" "TXX" - Spanish Guardia Civil
DK2OM	3590,0	vt	dly	08	PAK	no ITU	FSK8	125	1750	ALE, "KW" "ZULFIQUARI" "KHAIBAR" "SAIF1" "NRS"- Pakistan Navy
DK2OM	3590,0	1945	27	08	E		USB			Spanish fishery with vocoder CRY2001 - daily
DK2OM	3590,0	2137	12	08	E	„Tango“	USB			Spanish fishery – 1800 – 2200 utc - daily
DK2OM	3592,0	2125	06	08	RUS		PSK2	120	2600	AT3004D – traffic and submode idle - Kalinin
DK2OM	3595,0	vt	dly	08	D	no ITU	FSK8	125	1750	ALE, „ZLST“ „ZPRI“ „ZSHO“ „ZBOR“ „ZEMD“ „ZHEL“ „ZKNI“ „ZBOR“ „BPLEZS“ German customs – North-Germany
DK2OM	3595,7	1755	18	08	ISR		PSK4	75	2700	MIL188-110A hybrid modem
DK2OM	3596,0	vt	dly	08	HRV	9A0ALE	FSK8	125	1750	Croatian emergency ALE-net --- for info!
DK2OM	3601,0	vt	vd	08	D	DA0EC	PSK8	2000	2000	RFSM 8000 – amateur emergency net - Berlin - legal operation - just for info!!!
DK2OM	3602,5	vt	dly	08	AUT	OE9XRK	PSK2/4	1800	1800	Pactor4 – Mailbox OE9XRK – just for info!
DK2OM	3603,0	vt	dly	08	ALG	no ITU	FSK8	125	1750	ALE, "PT01JL94" "JL05JL94"
DK2OM	3608,0	2150	12	08	RUS		F1B	50	200	Kaliningrad
DK2OM	3610,0	vt	dly	08	D		PSK8	200	500	German APRS Net in Robust Packet - just for info!
DK2OM	3617,0	vt	dly	08	HRV	9A5EX	FSK8	125	1750	ALE, "9A5EX1P" – HAM-ALE - just for info
DK2OM	3622,5	1800	dly	08	J	JMH	F1C			Tokyo Meteo – 120 rpm – IOC576 – daily, legal!!!
DK2OM	3626,0	vt	dly	08	HRV	9A5EX	FSK8	125	1750	ALE, "9A5EX" – just for info
DK2OM	3660,0	vt	dly	08	ALG	no ITU	FSK8	125	1750	ALE, "UN20" XT20" - Algerian MIL
DK2OM	3689,7	2200	20	08	ISR		PSK4	75	2600	MIL188-110A hybrid modem
DK2OM	3706,0	1917	16	08	UKR		F1B	40.5	500	system Frost1 - Lviv
DK2OM	3746,0	1940	28	08	RUS		F1B	75	250	Velikije Luki
DK2OM	3751,5	vt	dly	08	POL		FSK8	125	1750	ALE, "LA7" "MI3"
DK2OM	3756,0	ady	dly	08	UKR		A3E			UKR – pip – 10 tones – navigation system
DK2OM	3761,5	vt	dly	08	POL	no ITU	FSK8	125	1750	ALE, "NI9" "AB2" – Polish military
DK2OM	3765,0	2122	17	08	S		F1B	75	250	ship area of Goeteborg
DK2OM	3782,0	ady	dly	08	POR	CTP	F1B	75	850	POR Navy headquarter Lisbon
DK2OM	7000,0	ady	dly	08	INS		U/LSB			Indonesian pirates in USB and LSB – every evening audible in Europe – at 1000 utc audible in West Canada
DK2OM	7000,0	0700	01	08	F		FMCW		20k	unid burst system – 6 sps bursts – same as on 14000.0 kHz - every 15 min.
DK2OM	7000,0	0636	13	08	F		F1B	184.6	400	ARQ-E – area of Paris
DK2OM	7000,0	1626	26	08	CHN		FMCW		150k	Chinese OTH Radar – 45.45 sps – 6860 – 7010 kHz
DK2OM	7000,2	1712	20	08	I		LSB			pirates, area of Formia
DK2OM	7001,0	2028	17	08	I	names	LSB			unid pirates – "Angelo" "Lucia"
DK2OM	7001,5	2030	18	08	ALG		PSK4	62.5	1750	Clover2000
DK2OM	7003,0	1710	20	08	I		LSB			pirates, area of Rome
DK2OM	7020,0	0847	20	08	RUS		F1B	75	250	Kaliningrad
DK2OM	7022,0	1500	20	08	RUS		PSK2	120	2600	AT3004D - Moscow
DK2OM	7027,0	0646	24	08	RUS		PSK2	120	2600	AT3004D – area of Moscow
DK2OM	7036,0	1459	18	08						frequency hopper
DK2OM	7038,0	1744	05	08	CHN		FMCW		32k	Chinese Coastal Radar – 2.6 sps – 7038.0 – 7070.0 kHz
DK2OM	7038,7	ady	dly	08	UKR	D	A1A			Cluster beacon – Sevastopol RUS Navy – "RCV"

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	7038,8	ady	dly	08	RUS	P	A1A			Cluster beacon – Kaliningrad RUS Navy – <b>“RMP”</b>
DK2OM	7038,9	ady	dly	08	RUS	S	A1A			Cluster beacon – Severomorsk RUS Navy – <b>„RIT“</b>
DK2OM	7039,0	ady	dly	08	RUS	C	A1A			Cluster beacon - Moscow RUS Navy - <b>“RIW”</b>
DK2OM	7039,0	1856	31	08	RUS	P	F1A		250	beacon P in FSK-Mode - Kaliningrad
DK2OM	7039,1	vt	dly	08	KGZ	A	A1A			Cluster beacon – Bishkek RUS Navy – <b>“RJH25”</b>
DK2OM	7039,2	ady	dly	08	RUS	L	A1A			Cluster beacon – St. Peterburg <b>“RJC66”</b>
DK2OM	7039,2	ady	dly	08	RUS	F	A1A			Cluster beacon - Vladivostok RUS Navy - <b>“RJS”</b>
DK2OM	7039,3	vt	dly	08	RUS	K	A1A			Cluster beacon - Petropavlovsk Kamchatskiy - RUS Navy - Pacific fleet - <b>“RCC”</b>
DK2OM	7039,4	1437	03	08	RUS	M	A1A			Cluster beacon – Magadan RUS Navy – <b>„RTS“</b>
DK2OM	7040,0	vt	dly	08	F	F6BAZ	FSK8	125	1750	ALE, “F6BAZ” – just for info
DK2OM	7040,5	vt	dly	08	HRV	9A5EX	FSK8	125	1750	ALE, “9A5EX” - just for info!
DK2OM	7041,0	0740	19	08	E		LSB			Spanish fishery
DK2OM	7043,3	1433	26	08	HOL	PA0OCD	PSK2	31.25	375	Clover2 (inv.) testing – just for info!
DK2OM	7049,5	vt	dly	08	F	F4BXW1	FSK8	125	1750	ALE, “F4BXW1” - just for info!
DK2OM	7054,0	vt	dly	08	RUS		F1B	50	100/ 200	RUS Navy - Moscow
DK2OM	7065,0	vt	dly	08	HRV	9A5EX	FSK8	125	1750	ALE, “9A5EX” - just for info!
DK2OM	7086,5	1245	09	08	UKR		F1B	81	250	Vinnytsia
DK2OM	7089,8	2250	15	08	TUR		PSK8	2400	2400	Link11 - SLEW – aircraft – Turkish South coast
DK2OM	7099,0	1627	14	08	UKR		F1B	40.5	250	System Frost1 – area of Kyiv
DK2OM	7099,5	vt	dly	08	HRV	9A0ZG	FSK8	125	1750	ALE, “9A0ZG” - just for info
DK2OM	7102,0	vt	dly	08	HRV	9A3COL	FSK8	125	1750	ALE, “9A3COL” – just for info!
DK2OM	7102,0	1603	01	08	SUI		FSK8	125	1750	ALE, “HB9MHB” – just for info!
DK2OM	7110,0	1439	08	08	BRM		A3E			Radio Myanmar
DK2OM	7110,5	vt	dly	08	HRV	9A0ALE	FSK8	125	1750	ALE, amateur net, just for info!
DK2OM	7155,0	2154	07	08	GEO		PSK2	120	2600	AT3004D - Georgia
DK2OM	7164,0	1504	22	08	RUS		PSK2	120	2600	AT3004D – area of Moscow
DK2OM	7173,5	1746	11	08	GEO		PSK2	120	2600	AT3004D – area of Georgia
DK2OM	7176,0	1850	31	08	RUS		F1B	75	250	Kaliningrad
DK2OM	7180,0	vt	dly	08	MRC	no ITU	FSK8	125	1750	ALE, “9201” “6350” “RC1”
DK2OM	7184,9	1248	09	08	UKR		F1B	81	250	Charkov
DK2OM	7185,5	vt	dly	08	F	F4BXW	FSK8	125	1750	ALE, “F4BXW” - just for info!
DK2OM	7186,0	2230	15	08	RUS		PSK4	120	2600	AT3104D - Severomorsk
DK2OM	7186,0	1850	19	08	RUS		PSK2	120	2600	AT3004D - Severomorsk
DK2OM	7187,5	1505	20	08	RUS		F1B	75	250	area of Perm
DK2OM	7196,5	0625	15	08	RUS		F1B	50	200	area of Moscow
DK2OM	7197,0	vt	vd	08			FSK8	125	1750	ALE,
DK2OM	7198,0	2300	23	08	RUS		PSK2	120	2600	AT3004D - Moscow
DK2OM	7198,5	1945	18	08	RUS		PSK2	64	3000	contains several PSK2 channels with 64 Bd and 64 Hz shift – 7197 – 7200 kHz – together with VOR on 7215 kHz
DK2OM	10100,0	1408	08	08	FEA		LSB			Far East pirates
DK2OM	10106,0	vt	dly	08	ALG	no ITU	FSK8	125	1750	ALE, “OG100A” “OR200B” - Algerian MIL
DK2OM	10108,0	0720	10	08	RUS		F1B	50	200	area of Moscow – also: 28.08.12 at 1453 utc
DK2OM	10108,0	1626	07	08						frequency hopper
DK2OM	10110,0	vt	vd	08	SNG		FSK8	125	1750	ALE, “CN6” “68” – Singapore Navy - Changi Naval Base with frigate “RSS Formidable”
DK2OM	10112,0	ady	dly	08	TUR		PSK8	2400	2400	Stanag4285 – 600 bps long – TUR MIL - Izmir
DK2OM	10115,0	vt	dly	08		no ITU	FSK8	125	1750	ALE, “2001”, “2011” “2005”
DK2OM	10118,0	1109	23	08	RUS		F1B	75	250	Moscow
DK2OM	10120,0	2130	06	08		no ITU	FSK8	125	1750	ALE-LSB, “5001”

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	10120,0	vt	dly	08		no ITU	FSK8	125	1750	ALE, "8001" "9067"
DK2OM	10120,0	0729	22	08	RUS		PSK2	120	2600	AT3004D – Moscow – also: 24.08.12 at 1400 utc
DK2OM	10122,0	2220	18	08	NIG	no calls	USB			unid male persons
DK2OM	10130,0	vt	vd	08			FSK8	125	1750	Thales 3000
DK2OM	10130,0	1631	21	08			FSK8	125	1750	ALE, "DL5" "084"
DK2OM	10130,0	vt	dly	08	USA		F1B	50	850	USA - Maine
DK2OM	10130,0	1959	19	08	CYP		FMCW		20k	OTH Radar Cyprus – 50 sps
DK2OM	10131,0	0800	02	08	RUS		F1B	75	250	Moscow – also: 17.08.12 at 2119 utc
DK2OM	10134,0	vt	dly	08	ALG	no ITU	FSK8	125	1750	ALE, "CM4" "COF" - Algerian Airforce
DK2OM	10136,5	vt	dly	08	F	F4BXW	FSK8	125	1750	ALE, "F4BXW" - just for info!
DK2OM	10142,5	vt	dly	08	HRV	9A5EX	FSK8	125	1750	ALE, "9A5EX" – just for info!
DK2OM	10143,0	1109	11	08	RUS		F1B	75	250	Moscow
DK2OM	10145,0	1005	09	08	RUS		PSK2	120	2600	AT3004D – Penza – also: 12.08.12 at 1330 utc
DK2OM	10145,5	1702	22	08	SUI		FSK8	125	1750	ALE, "HB9MHB" – just for info!
DK2OM	10145,5	vt	dly	08	HRV	9A5EX	FSK8	125	1750	ALE, 9A5EX, just for info!
DK2OM	10146,0	vt	dly	08	ALG		FSK8	125	1750	ALE, "ORG" "CM4" – ALG Airforce
DK2OM	10150,0	vt	dly	08		no ITU	FSK8	125	1750	ALE, "CFA" "CTA"
DK2OM	10150,0	1856	26	08	TUR		FMCW		20k	OTH Radar West Turkey – 50 sps
DK2OM	10150,3	1707	20	08	CHN		PSK4	75	2250	PRC4+4, traffic and idle
DK2OM	14000,0	1511	09	08	CIS		USB			male person spelling Russian numbers
DK2OM	14000,0	1717	20	08	FEa		USB			Far East pirates
DK2OM	14000,0	2200	25	08			USB			pirates in Spanish voice, South West
DK2OM	14000,0	1308	26	08	CLN		USB			fishermen
DK2OM	14001,0	0720	01	08			USB			unid pirates – 190 deg.
DK2OM	14006,0	0848	15	08	RUS		PSK2	120	2600	AT3004D – submode idle – Moscow
DK2OM	14006,0	1114	15	08	RUS		PSK2		10k	overloaded AT3004D – submode idle – Moscow
DK2OM	14010,0	0830	06	08						frequency hopper
DK2OM	14011,0	2145	06	08	FEa		LSB			Far East pirates – 70 degrees
DK2OM	14037,0	vt	dly	08	CHN	no ITU	FSK8	125	1750	ALE, "313" "132" "932"
DK2OM	14050,0	1015	09	08	RUS		F1B	50	400	Severomorsk
DK2OM	14052,0	2127	20	08	TUR		J2D			Thales Panther, area of Antalya
DK2OM	14052,0	0819	24	08	CHN		FMCW		10k	Chinese OTH Radar – 83.33 sps – 1.6 sec bursts
DK2OM	14055,0	1931	18	08						frequency hopper
DK2OM	14075,0	ady	dly	08	IND		FMCW		50k	Codar like Radar 14075 - 14125, 2 sps, North-East India
DK2OM	14080,0	1556	30	08	RUS		F1B	75	250	ship, north of Kaliningrad
DK2OM	14104,0	vt	dly	08	CHN		FSK8	125	1750	ALE, "A98" "L06"
DK2OM	14106,0	vt	dly	08			FSK8	125	1750	ALE, "161"
DK2OM	14108,0	0858	20	08	RUS		A1A			encrypted CW - RUS MIL Moscow
DK2OM	14109,0	vt	dly	08	F	F4BXW	FSK8	1250	1750	ALE, "F4BXW" - just for info
DK2OM	14109,0	vt	dly	08	S	SM5RVH	FSK8	125	1750	ALE, "SM5RVH" – just for info!
DK2OM	14141,0	1755	29	08	RUS		F1B	75	500	Velikije Luki
DK2OM	14192,0	vt	dly	08	RUS		F1B	50	200 /500	RUS Navy Kaliningrad
DK2OM	14212,5	ady	vd	08	CHN		OFDM			OFDM39 – Zhenghou - South-East China
DK2OM	14238,0	0915	25	08	RUS		F1B	75	250	Far East Russia
DK2OM	14242,0	0956	07	08	RUS		PSK2	120	2600	AT3004D – also: 15.08.12 at 0635 utc – area of Smolensk
DK2OM	14247,0	vt	dly	08	E	no ITU	FSK8	125	1750	ALE, "151" "250"
DK2OM	14250,0	1002	07	08	F		FMCW		20k	unid burst system – 6 sps bursts of 10.4 sec – every 15 min.
DK2OM	14260,0	0806	19	08	RUS		F1B	50	2000	harmonic from 3565 kHz (50 Bd – 500 Hz) – area of Moscow
DK2OM	14265,0	0653	17	08	CHN		FMCW		10k	Chinese OTH Radar – 50 sps –

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										bursts of 5.4 sec
DK2OM	14270,0	1738	27	08						frequency hopper
DK2OM	14272,0	1256	09	08	UKR		F1B	75	200	Sevastopol – RUS Naval base?
DK2OM	14295,1	ady	dly	08	TJK		A3E			3 <sup>rd</sup> from Radio Tajik on 4765 kHz
DK2OM	14316,0	vt	dly	08	?	no ITU	FSK8	125	1750	ALE, “601” “611”
DK2OM	14325,1	vt	vd	08	FEa	no ITU	FSK8	125	1750	ALE, “776” “699” “475”
DK2OM	14331,0	vt	dly	08			FSK8	125	1750	ALE, “417” “663”
DK2OM	14333,5	0752	09	08	RUS		F1B	75	250	Moscow
DK2OM	14340,0	1719	20	08	RUS		PSK2	120	2600	AT3004D - Vladivostok
DK2OM	14341,0	vt	dly	08	I		FSK8	125	1750	ALE, “20” - area of Rome
DK2OM	14343,0	vt	dly	08	CHN	no ITU	FSK8	125	1750	ALE, “L06” “A98”
DK2OM	14346,0	ady	dly	08	SUI		FSK8	125	1750	ALE, “HB9MHB” – called by “NOCALSIGN” - just for info
DK2OM	14350,0	vt	27	08	TWN		FSK8	125	1750	ALE-LSB, “ABJECT, AFFECT, APPLEF” – Taiwanese Navy
DK2OM	18090,0	1844	04	08						frequency hopper
DK2OM	18100,0	1750	22	08	E		USB			Spanish fishery
DK2OM	21000,0	2120	08	08	B		USB			Brazilian pirates
DK2OM	21000,0	0742	09	08	FEa		USB			Far East pirates – also: 30.08.12 at 1035 utc
DK2OM	21002,1	0833	09	08	RUS		MFSK	40	1300	CIS36 – Rostov na Donu
DK2OM	21003,2	1357	05	08	FEa		LSB			Far East pirates
DK2OM	21010,0	0818	16	08	TUR		FMCW		20k	OTH Radar Turkey – 50 sps
DK2OM	21040,0	1641	10	08	TUR		FMCW		20k	OTH Radar Ankara, 50 sps
DK2OM	21089,5	vt	dly	08	HRV	9A5EX	FSK8	125	1750	ALE, “9A5EX” - just for info!
DK2OM	21096,0	vt	dly	08	POR	CT2GOY	FSK8	125	1750	ALE, “CT2GOY” – just for info
DK2OM	21096,0	vt	dly	08	INS	YD00XH	FSK8	125	1750	ALE, amateurs “YD00XH3” “YD00XH7” – just for info!
DK2OM	21100,0	1430	24	08	TUR		FMCW		20k	OTH Radar South East Turkey, 50 sps
DK2OM	21116,0	vt	dly	08	HRV	9A0ST	FSK8	1250	1750	ALE, “9A0ST” “9A5EX” – just for info!
DK2OM	21121,2	1750	25	08	MRC		USB			Moroccan fishery
DK2OM	21128,6	0927	07	08			F1B	600	600	DPRK-FSK600 – ARQ burst system
DK2OM	21130,0	1638	10	08	TUR		FMCW		20k	OTH Radar Ankara, 50 sps
DK2OM	21136,0	1627	02	08						frequency hopper
DK2OM	21138,5	ady	dly	08	OMA		PSK4	8 x 62.5	1750	Clover2000 – idling – mailbox?
DK2OM	21145,0	0800	16	08	TUR		FMCW		20k	OTH Radar Turkey – 50 sps
DK2OM	21158,0	0830	02	08	CHN		FMCW		20k	CHN OTH burst system – 47.6 sps – 5.4 sec bursts
DK2OM	21230,0	0917	24	08	TUR		FMCW		20k	OTH Radar Turkey – 50 sps
DK2OM	21245,3	1349	24	08	FEa		LSB			Far East pirates
DK2OM	21300,0	0921	24	08	RUS		F1B	100	2000	harmonic from 5325 kHz (500 Hz shift) – area of Moscow
DK2OM	21300,0	1033	29	08	TUR		FMCW			OTH Radar West Turkey (Denizli) – 50 sps
DK2OM	21323,3	0925	24	08	CHN		PSK4	75	2250	PRC4+4 – idle and traffic (PSK4) Central China (Lanzhou)
DK2OM	21323,5	0926	24	08			F1B	600	600	DPRK-FSK600 -
DK2OM	21330,0	vt	dly	08	CAN		FSK8	125	1750	ALE, “VE3OUV” - just for info
DK2OM	21330,0	0740	10	08	TUR		FMCW		20k	OTH Radar West Turkey – 50 sps
DK2OM	21353,0	1847	04	08						frequency hopper
DK2OM	21409,5	0918	07	08	RUS		F1B	96	2000	CIS14 – harmonic from 10704.75 - Jekaterinburg
DK2OM	21438,0	vt	dly	08	UKR	RCV	A1A			RIP90 de RCV - RUS Navy Sevastopol
DK2OM	21450,0	1756	26	08	CYP		FMCW		20k	OTH Radar Cyprus – 50 sps
DK2OM	21450,0	1010	31	08	CHN		A3E			splatter from Chinese jammer on 21460 kHz
DK2OM	25000,0	ady	dly	08	FIN		A3E			time signal Helsinki – just for info – carrier on 25000 – dots on 25001 and 24999
DK2OM	28000,0	vt	dly	08	B		A3E			28000 – 28325 Brazilian CBers

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	28000,0	1645	25	08	Mea		FMCW		44k	OTH Radar – 44 kHz wide – 872 and 310.4 sps – 3.3 sec bursts
DK2OM	28002,0	1823	26	08						frequency hopper
DK2OM	28005,0	ady	dly	08	UKR		F3E			UKR taxi
DK2OM	28005,0	2023	24	08	B		A3E			Brazilian CBers
DK2OM	28015,0	1959	16	08	B		A3E			Brazilian CBers
DK2OM	28035,0	2008	07	08	B		A3E			Brazilian CBers
DK2OM	28035,0	0830	29	08	MEa		FMCW		44k	OTH Radar – 44 kHz wide – 872 and 307 sps – 3.3 sec bursts
DK2OM	28044,4	1853	29	08	B		USB			Brazilian CBers
DK2OM	28055,0	vt	dly	08	RUS		F3E			RUS taxi - Moscow
DK2OM	28065,0	2007	07	08	B		A3E			Brazilian CBers - daily
DK2OM	28065,8	1425	04	08	GAB		A3E		1425	carrier and dots in USB and LSB, bursts every 60 sec – 28065.820 kHz carrier – Gabon – daily and all day
DK2OM	28085,0	1737	28	08	B		A3E			Brazilian CBers
DK2OM	28085,0	1413	11	08	CIS		F3E			CIS taxi - daily
DK2OM	28095,0	2027	11	08	B		A3E			Brazilian CBers
DK2OM	28105,0	vt	dly	08	RUS		F3E			taxi - Moscow
DK2OM	28115,0	2041	06	08	B		A3E			Brazilian CBers - daily
DK2OM	28115,0	2022	10	08	UKR		F3E			taxi – Sevastopol
DK2OM	28125,0	2040	06	08	B		A3E			Brazilian CBers
DK2OM	28125,0	1100	13	08	CIS		F3E			CIS CBers
DK2OM	28130,0	0902	28	08	MEa		FMCW		44k	OTH Radar – 44 kHz wide – 307 sps
DK2OM	28135,0	1331	16	08	CIS		F3E			CIS taxi
DK2OM	28145,0	2038	06	08	B		A3E			Brazilian CBers - daily
DK2OM	28165,0	0755	31	08	CIS		F3E			CIS taxi
DK2OM	28185,0	0755	16	08	CIS		F3E			CIS taxi
DK2OM	28195,0	1353	16	08	CIS		F3E			CIS taxi
DK2OM	28215,0	0807	11	08	CIS		F3E			CIS taxi
DK2OM	28215,0	2000	16	08	B		A3E			Brazilian CBers
DK2OM	28232,0	09120	28	08	MEa		FMCW		44k	OTH Radar – 44 kHz wide – 872 and 307 sps – 5.9 sec bursts
DK2OM	28235,0	2036	06	08	B		A3E			Brazilian CBers
DK2OM	28235,0	0845	18	08	CIS		F3E			CIS taxi
DK2OM	28240,0	0916	28	08	MEa		FMCW		44k	OTH Radar – 44 kHz wide – 872 and 307 sps – 5.9 sec bursts
DK2OM	28250,2	vt	dly	08	GAB		A3E		1425	carrier and dots in USB and LSB, bursts every 60 sec – 28250.2 kHz carrier – Gabon – daily and all day
DK2OM	28255,0	0749	31	08	RUS		F3E			taxi – daily – area of Smolensk
DK2OM	28255,0	2034	06	08	B		A3E			Brazilian CBers
DK2OM	28265,0	1434	16	08	RUS		F3E			RUS taxi
DK2OM	28275,0	2006	07	08	B		A3E			Brazilian CBers
DK2OM	28283,0	0904	28	08	MEa		FMCW		44k	OTH Radar – 44 kHz wide – 307 sps and 872 – 3.2 sec bursts
DK2OM	28285,0	1959	20	08	B		A3E			Brazilian CBers
DK2OM	28305,0	2042	06	08	B		A3E			Brazilian CBers - daily
DK2OM	28315,0	2005	07	08	B		A3E			Brazilian CBers
DK2OM	28346,1	vt	dly	08	GAB		A3E		1425	carrier and dots in USB and LSB, bursts every 60 sec – 28345.83 kHz carrier – Gabon – daily and all day
DK2OM	28360,0	0940	27	08	MEa		FMCW		44k	OTH Radar – 44 kHz wide – 307 sps – 5.9 sec bursts
DK2OM	28365,0	0917	28	08	MEa		FMCW		44k	OTH Radar – 44 kHz wide – 872 and 307 sps – 5.9 sec bursts
DK2OM	28370,0	0734	26	08	MEa		FMCW		44k	OTH Radar – 44 kHz wide – 872 - 293.3 – 294.5 - 295.7 - 296.3 and 310.4 sps – 3.3 and 5.9 sec bursts
DK2OM	28380,0	0836	29	08	MEa		FMCW		44k	OTH Radar – 44 kHz wide – 872 and 307 sps – 5.9 and 3.3 sec bursts – jumping between 28380 and 28500 kHz

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	28665,0	1354	16	08	CIS		F3E			CIS taxi
DK2OM	28855,0	1328	16	08	CIS		F3E			CIS taxi
DK2OM	28890,0	0756	31	08	CIS		F3E			CIS taxi
DK2OM	29000,0	1950	05	08	MEa		FMCW		44k	OTH Radar – 44 kHz wide – 872 and 310.4 sps
DK2OM	29000,0	0916	06	08	RUS		USB			man spelling numbers
DK2OM	29355,0	0740	31	08	MEa		FMCW		44k	OTH Radar – 44 kHz wide – 872 and 307 sps – 3.3 and 5.9 sec bursts
DK2OM	29440,0	1628	31	08	CIS		F3E			CIS taxi
DK2OM	29575,0	1740	14	08	RUS		F3E			RUS taxi – Moscow – daily, all day
DK2OM	29684,8	vt	vd	08	I		serial			serial modem, Italian MIL Brescia – Sporadic E
DK2OM	29699,8	vt	vd	08	I		serial			serial modem, Italian MIL Brescia – Sporadic E

### IRTS – Ireland – EI5DD (Steve)

### KARS – Kuwait – 9K2RR (Faisal)

### MRASZ – Hungary - HA7PL (Laci)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
MRASZ	7000,0	1747	27	8	ITA		LSB			italian male: „prova prova prova”
MRASZ	7000,0	1753	27	8		Ui	LSB			Ui language
MRASZ	7000,0	1753	29	8	ITA		LSB			italian male
MRASZ	7000,0	1753	29	8	ITA		LSB			italian male
MRASZ	7000,1	0630	19	8			LSB			french male
MRASZ	7005,0	1757	27	8			A1A			„LVNVH JYVFY WUPÄW =K”
MRASZ	7008,0	0639	23	8		Ui	F1B		250	
MRASZ	7016,0	0659	23	8		Ui	F1B		500	
MRASZ	7018,0	0700	18	8		Ui	F1B		200	
MRASZ	7018,1	1000	1	8		Ui	F1B		500	
MRASZ	7020,0	0945	20	8		Ui	F1B		250	
MRASZ	7020,0	1734	20	8		Ui	USB			ui. language, male
MRASZ	7025,0	1515	15	8		Ui	F1B		200	
MRASZ	7028,0	1249	5	8		Ui	J7D			AT3004D?
MRASZ	7038,7	1825	1	8	UKR	D	A1A			beacon "D"
MRASZ	7038,7	1646	16	8	UKR	D	A1A			beacon "D"
MRASZ	7038,9	1724	29	8	RUS	S	A1A			beacon "S"
MRASZ	7039,0	0632	19	8	RUS	C	A1A			beacon "C"
MRASZ	7039,2	1825	1	8	RUS	L	A1A			beacon „L”
MRASZ	7039,2	0606	8	8	RUS	L	A1A			beacon „L”
MRASZ	7039,2	1353	15	8	RUS	L	A1A			beacon „L” sometime broken L
MRASZ	7039,2	1646	16	8	RUS	L	A1A			beacon „L” sometime broken L
MRASZ	7040,0	1511	15	8	ITA		LSB			italian male: „prova radio”
MRASZ	7044,1	1140	1	8		Ui	F1B		800	
MRASZ	7048,0	1830	1	8		Ui	F1B		200	
MRASZ	7054,0	1709	1	8	RUS		F1B	50	200	
MRASZ	7054,0	1814	1	8	RUS		F1B	50	200	
MRASZ	7069,7	0949	19	8		Ui	F1B		120	
MRASZ	7088,0	1859	16	8		Ui	F1B		200	
MRASZ	7091,5	1123	6	8		Ui	F1B		250	
MRASZ	7098,0	1247	5	8		Ui	F1B		250	

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
MRASZ	7098,0	1142	7	8		Ui	F1B		250	
MRASZ	7105,0	1930	14	8		Ui	A3E			UiBC
MRASZ	7105,0	1912	16	8		Ui	A3E			UiBC
MRASZ	7105,0	1901	18	8		Ui	A3E			UiBC
MRASZ	7111,0	1144	7	8		Ui	F1B		250	
MRASZ	7120,0	1708	29	8		Ui	A3E			UiBC music
MRASZ	7124,0	1907	18	8		Ui	A1A			„PVC M QSA?”
MRASZ	7124,0	1911	18	8		Ui	A1A			„OUL5 de PVC M RK”
MRASZ	7164,0	1730	27	8		Ui	A3E			UiBC
MRASZ	7175,0	1710	29	8		Ui	A3E			Ui language
MRASZ	7179,0	1759	20	8		Ui	A3E			UiBC
MRASZ	7180,0	1710	6	8		Ui	A3E			UiBC
MRASZ	7184,0	1905	18	8		Ui	A3E			UiBC
MRASZ	7185,0	2035	20	8			J7D			AT3004D?
MRASZ	7186,8	1524	15	8		Ui	F1A			„XXX XXX M MAAA K”
MRASZ	7190,0	1640	16	8		Ui	A3E			UiBC
MRASZ	7196,0	0642	23	8		Ui	F1B		200	
MRASZ	7200,0	2029	20	8		Ui	A3E			UiBC splattered 3 kHz down
MRASZ	10150,0	0604	8	8			USB			russian male
MRASZ	14007,2	1904	16	8			J7D			AT3004D?
MRASZ	14008,0	0906	15	8		Ui	F1B			
MRASZ	14049,8	0817	8	8			USB			russian male; „allo ogyin, dvá tri”
MRASZ	14069,8	0818	13	8			A1A			„V V V V V ..”
MRASZ	14080,0	1730	29	8		Ui	F1B		250	
MRASZ	14096,9	1743	29	8			N0N			
MRASZ	14108,0	1907	13	8		Ui	A1A			5 rus ltrs with hum, „QQ4I CK”
MRASZ	14108,0	1110	15	8		Ui	A1A			„ZW IN QQ4I QTC K”
MRASZ	14141,0	1729	29	8		Ui	F1B		500	
MRASZ	14192,0	1320	15	8		Ui	F1B		500	printer
MRASZ	14294,8	0808	13	8			A3E			3. rd harmonic of „Radio Tadjik”
MRASZ	14294,8	1738	29	8			A3E			3. rd harmonic of „Radio Tadjik”
MRASZ	18068,0	1045	1	8			OTHR			18068 – 18100 kHz
MRASZ	21140,0	0810	13	8			OTHR			21120 – 21150 kHz

### OEVSV – Austria – OE3GSA (Gerd)

### PZK – Poland – SP3UZ (Wladyslaw)

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

SOC	KHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REP	3503,0	07.44	09	08	E		J3E-U			Fishermen
REP	3503,0	08.12	24	08	E		J3E-U			Fishermen
REP	3505,0	20.19	14	08	MRC		J3E-U			Fishermen
REP	3505,0	08.37	29	08	E		J3E-U			Fishermen
REP	3505,0	07.37	02	08	n.i.		J3E-U			Fishermen (Nordic ?)
REP	3515,0	08.10	11	08	E		J3E-U			Fishermen
REP	7005,0	08.59	30	08	E		J3E-U			Fishermen
REP	7030,0	20.33	21	08	n.i.		J3E-U			Numbers Station and 1,2,3,4 ... counting
REP	7038,6	07.48	19	08	RUS	S	A1A			MURMANSK, ADY, DLY 0.2uV S1
REP	7038,6	20.12	25	08	RUS	S	A1A			MURMANSK, ADY, DLY 3.1uV S5
REP	7038,7	22.19	01	08	UKR	D	A1A			SEVASTOPOL, ADY, DLY 3.1uV S5
REP	7038,7	23.56	01	08	UKR	D	A1A			SEVASTOPOL, ADY, DLY 3.1uV S5
REP	7039,0	23.09	01	08	RUS	C	A1A			MOSCOW, ADY, DLY 3.1uV S5
REP	7039,0	21.26	27	08	RUS	A	A1A			VOLGOGRAD, ADY, DLY 0.2uV S1
REP	7039,0	23.56	27	08	RUS	A	A1A			VOLGOGRAD, ADY, DLY 6.3uV S6
REP	7055,0	20.10	17	08	RUS		F1B	50	200	Navy / MIL



SOC	KHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REP	7105,0	20.40	20	08	TWN		8k00 A3EGN			Sound of Hope - English lang
REP	7105,0	23.13	12	08	CHN		8k00 A3EGN			R.China – music
REP	7118,5	23.08	16	08	n.i.		F1B			RTTY not standard
REP	7120,0	08.44	22	08	n.i.		J3EU			Music
REP	7125,0	23.00	29	08	n.i.		CW			Steady Carrier 50uV S9
REP	7128,0	23.11	31	08	n.i.		Noise			White noise
REP	7160,0	18.19	23	08	n.i.		Noise			White noise (PLT ?)
REP	7180,0	23.10	04	08	n.i.		8k00 A3EGN			2 broadcastings intermod and overlaped English lang.
REP	7186,0	08.20	15	08	E		J3E-U			Fishermen
REP	7190,0	23.40	01	08	n.i.		8k00 A3EGN			News / music
REP	7195,0	09.21	09	08	n.i.		8k00 A3EGN			R. Uganda ?
REP	7200,0	04.26	01	08	ISR		8k00 A3EGN			Radio Islam ?
REP	7200,0	21.30	13	08	RUS		8k00 A3EGN			Russian broadcasting
REP	10105,0	23.55	04	08	MRC		J3E-U			Fishermen
REP	10131,0	21.00	05	08	n.i.		J3E-U			Asiatic talks – 3 stations
REP	10149,0	23.07	26	08	n.i.		J3E-U			Talks with no calls
REP	14000,0	08.11	22	08	n.i.		F1B			RTTY not standard
REP	14005,0	08.00	23	08	E		J3E-U			Fishermen
REP	14011,5	20.57	28	08	n.i.		J3E-U SSTV			Not Ham standards
REP	14060,0	08.01	08	08	ISR		FSK8			ALE, ALE, ALE
REP	14190,0	19.15	20	08	RUS		F1B	50	200	Navy
REP	21001,0	09.03	03	08	n.i.		J3E-U			Arab talks – no calls
REP	21012,0	08.04	07	08	n.i.		J3E-U			Fishermen
REP	21400,0	10.24	16	08	n.i.		J3E-U			Arab talking
REP	21440,0	08.05	12	08	AFG		PSK8	2400	2400	MIL COMM
REP	28015,0	19.36	19	08	n.i.		A3E			CB
REP	28045,0	09.24	29	08	RUS		F3E			Taxis
REP	28065,0	09.00	29	08	RUS		F3E			Taxis
REP	28070,0	20.04	22	08	F		A3E			CB
REP	28075,5	22.38	23	08	F		A3E			CB
REP	28135,0	17.25	16	08	RUS		F3E			Taxis
REP	28175,0	12.10	25	08	HRV		A3E			Taxis
REP	28245,0	17.00	16	08	RUS		F3E			Taxis
REP	28274,0	10.11	25	08	RUS		A3E			Taxis
REP	28310,0	19.25	27	08	RUS		A3E			Russian lang.
REP	28335,0	19.06	27	08	I		A3E			Talks – 2 males + female

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

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	REMARKS
RSGB	14295	24H	DLY	08	TJK	Radio Tajik.	A3E	Baldock sent service message. No response so Appendix 10 notice sent.
RSGB	7105	1800-2000	DLY	08	BGD	Bangladesh Radio	A3E	Started around 13th, went to 7250 kHz after 10 days. Baldock sent service message on 23rd.
RSGB	7120	Varies	Varies	08	SOM	Radio Hargeisa	A3E	Reported to Baldock on 31 Aug. At 1810z. Irregular test times.

**SRAL – Finland – OH2BLU (Pekka)**

Society	kHz	TIME	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
SRAL	7005,0	1130-1400	8	8		UiMUX	J7D	12x120	12x200	
SRAL	7008,0	0400-1930	*	8		UiPTR	F1B		250	Days: 7. 12. 30. 31.
SRAL	7016,0	0530-0610	17. 22.	8		UiPTR	F1B		250	
SRAL	7018,0	0255-0700	18. 29.	8		UiPTR	F1B		200	
SRAL	7018,6	0630-1930	15.- 17.	8		UiCarr	N0N			
SRAL	7020,0	0655-1010	*	8		UiPTR	F1B			Days: 20. 27. 31.
SRAL	7022,0	0815-1545	*	8		UiMUX	J7D	12x120	12x200	Days: 7. 15. 16.
SRAL	7023,0	0405-0500	13.	8		UiPTR	F1B			
SRAL	7025,0	1130-1600	*	8		UiPTR	F1B		250	Days: 8. 15. 16.
SRAL	7027,0	0740-1235	24.	8	RUS	UiMUX	J7D	12x120	12x200	Moscow
SRAL	7038,7	h24	dly	8	UKR	D	A1A			Sevastopol
SRAL	7038,9	h24	dly	8	RUS	S	A1A			Severomorsk
SRAL	7039,0	h24	3.- 25.	8	RUS	C	A1A			Moscow
SRAL	7039,0	0830-2400	31.	8	RUS	P	F1A		250	Kaliningrad
SRAL	7039,2	h24	dly	8	RUS	L	A1A			St Peterburg
SRAL	7048,0	0400-1930	1. 2.	8		UiPTR	F1B		200	
SRAL	7054,0	1700-0700	dly	8	RUS	REA4	F1B		125/200	Moscow
SRAL	7058,0	0800-0830	14.	8		UiPTR	F1B		250	
SRAL	7070,5	0830-0940	20.	8		UiPTR	F1B		250	
SRAL	7080,0	1325	28.	8	RUS	RGR90	A1A			5F
SRAL	7086,4	1315	5.	8		UiPTR	F1B		500	
SRAL	7088,0	0430-0700	21. 23.	8		UiPTR	F1B		200	
SRAL	7091,5	0730-1930	*	8		UiPTR	F1B		250	Days: 4. 5. 21. 23. 25.
SRAL	7094,0	0700	30.	8		UiMUX	J7D	12x120	12x200	
SRAL	7098,0	0930-1230	*	8		UiPTR	F1B		250	Days: 7. 21. 23.
SRAL	7099,0	0300-1930	14. 15.	8	UKR	UiPTR	F1B		250	Kiev
SRAL	7105,0	1745-1903/	*	8	BGD	BGD Betar	A3E			Days: 13.-16. 18. 19. 21.-25.
SRAL	7111,0	1115-1245	7.	8		UiPTR	F1B		250	
SRAL	7112,0	0520	6.	8		UiMUX	J7D	12x120	12x200	
SRAL	7114,0	1515-1900	7.	8		UiPTR	F1B		200	
SRAL	7120,0	1645-1903/	29.- 31.	8		R. Hargeisa	A3E			Test transmissions, MX only
SRAL	7120,0	0415-0500	31.	8		UiMUX	J7D	12x120	12x200	
SRAL	7122,0	0530-0800	21.	8		UiPTR	F1B		250	
SRAL	7134,5	1235-1300	23.	8		UiPTR	F1B			
SRAL	7151,5	0800-1500	8.	8		UiMUX	J7D	12x120	12x200	
SRAL	7152,5	1100-1815	3. 15.	8		UiPTR	F1B		250	
SRAL	7155,0	0300-	7. -9.	8	RUS	UiMUX	J7D	12x120	12x200	

Society	kHz	TIME	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
		1930								
SRAL	7175,0	0245-0500	dly	8	ERI	VoBME 2	A3E			jammed by ETH, QSY 7165 – 7190 kHz
SRAL	7175,0	1500-1800	dly	8	ERI	VoBME 2	A3E			QSY 7165 –7190 kHz, jammed by ETH until 1700,
SRAL	7176,0	0810-2400	31.	8	RUS	UiPTR	F1B		250	Kaliningrad
SRAL	7183,9	1300-1600	5. 13.	8		UiPTR	F1B		500	
SRAL	7186,0	0330-1930	15.-23.	8		UiMUX	J7D	12x120	12x200	
SRAL	7187,5	1230-1630	4. 20.	8		UiPTR	F1B			
SRAL	7196,0	0430-1015	23.	8		UiPTR	F1B		200	
SRAL	71967,5	0630-0700	15.	8		UiPTR	F1B		200	
SRAL	7198,0	0220-0430	24.	8	RUS	UiMUX	J7D	12x120	12x200	
SRAL	7200,0	0200-0600	dly	8	SDN	R Sudan	A3E			
SRAL	7200,0	1430-2030	dly	8	SDN	R Sudan	A3E			
SRAL	7200,0	1515-1840	*	8	ERI	VoBME 1	A3E			14 days
SRAL	14006,0	0600-1330	15. 16.	8	RUS	UiMUX	J7D	12x120	12x200	
SRAL	14064,0	1130-1215	14.	8		UiPTR	F1B		250	
SRAL	14081,0	1000-1306/	2. 16.	8		UiPTR	F1B		250	
SRAL	14083,0	0810	17.	8		UiMUX	J7D	12x120	12x200	
SRAL	14086,0	0950	6.	8		UiMUX	J7D	12x120	12x200	
SRAL	14108,0	0730-1020	6.	8		UiCW	A1A			MR 5BL
SRAL	14192,0	0600-1230	dly	8		UiPTR	F1B		200/500	
SRAL	14222,0	0425	1.	8		UiMUX	J7D	12x120	12x200	
SRAL	14234,0	0500	10.	8		UiMUX	J7D	12x120	12x200	
SRAL	14238,0	1435-1532/	10.	8		UiPTR	F1B		250	
SRAL	14242,0	0635	15.	8		UiMUX	J7D	12x120	12x200	
SRAL	14274,0	1020-1320	17.	8		UiMUX	J7D	12x120	12x200	
SRAL	14292,0	0630-0700	30.	8		SOIF	A1A			
SRAL	14295,1	h24	dly	8	TJK	R Tojikiston	A3E			3f 4765,05 kHz, Yangiyul TX
SRAL	18060,0	1035-1135	8.	8		UiOTHR	FMCW			20kHz/50Hz
SRAL	18090,0	0730-0740/	19.	8		UiOTHR	FMCW			20kHz/50Hz
SRAL	18170,0	1210	15.	8		UiOTHR	FMCW			20kHz/50Hz
SRAL	21000,0	0800-0815	13.	8		UiOTHR	FMCW			20kHz/50Hz
SRAL	21145,0	0800-0805/	16.	8		UiOTHR	FMCW			20kHz/50Hz
SRAL	21290,0	0715-0736/	13.	8		UiOTHR	FMCW			20kHz/50Hz
SRAL	28 MHz	0800-1135	8. 15.	8	CIS	UiVOX	F3E			6 reports

# USKA – Switzerland – HB9CET (Peter)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	7000.0	1601	28	08			J3E-U			unid language
USKA	7008.0	2029	30	08			F1B	75	250	
USKA	7010.0	1939	28	08			J3E-L			Italian (no callsigns, names only)
USKA	7016.0	0722	22	08			F1B	75	250	
USKA	7018.0	2242	28	08			F1B	75	200	
USKA	7038.7	2018	02	08	UKR	D	A1A			Beacon D Sevastopol
USKA	7038.9	2014	02	08	RUS	S	A1A			Beacon S Murmansk
USKA	7039.0	1211	31	08	RUS	P	F1A			Beacon P Kaliningrad
USKA	7039.2	2021	01	08	RUS	F	A1A			Beacon F Vladivostok
USKA	7039.2	2133	07	08		L	A1			Beacon L
USKA	7039.4	2022	02	08	RUS	M	A1A			Beacon M Magadan
USKA	7054.0	2012	02	08			F1B	50	200	daily
USKA	7054.3	2151	30	08			A1			illegal jammer (dash/dots only)
USKA	7054.4	2151	30	08			F1B	50	200	(7054: 400Hz offset !)
USKA	7070.0	1752	31	08		204	MFSK8	125	1750	MIL 188-141A
USKA	7070.0	0157	27	08		244	MFSK8	125	1750	MIL 188-141A daily
USKA	7070.0	2211	06	08		514	MFSK8	125	1750	MIL 188-141A daily
USKA	7070.0	2143	26	08		571	MFSK8	125	1750	MIL 188-141A daily
USKA	7070.0	2340	28	08		20923	MFSK8	125	1750	MIL 188-141A
USKA	7070.0	2348	28	08		810204	MFSK8	125	1750	MIL 188-141A
USKA	7070.0	2308	28	08		810210	MFSK8	125	1750	MIL 188-141A
USKA	7070.0	0040	30	08		820203	MFSK8	125	1750	MIL 188-141A
USKA	7070.0	0048	30	08		820204	MFSK8	125	1750	MIL 188-141A
USKA	7088.0	2122	16	08			F1B	75	200	
USKA	7089.8	2113	26	08			PSK-8	2400	2k6	Link 11- SLEW often
USKA	7090.5	2142	27	08			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D
USKA	7091.5	1845	04	08			F1B	40.5	250	
USKA	7099.0	2130	14	08			F1B		250	2ton shifting only
USKA	7105.0	2228	06	08		TWN	A3E			BC (2 stations) daily
USKA	7105.0	2228	06	08		CHN	A3E			BC (2 stations) daily
USKA	7105.0	1815	23	08	BGD		A3E		10k	Radio Bangladesh en often
USKA	7105.0	1900	23	08	BGD		N0N			Carrier of Radio Bangladesh
USKA	7105.0	1915	23	08	BGD		A3E		10k	Radio Bangladesh bengal often
USKA	7110.0	2135	28	08			FMCW	66.66	10k	OTHR; BD 3.8s BRI 17.7s
USKA	7111.0	0727	22	08			F1B	75	250	
USKA	7111.9	2004	28	08			MFSK8	125	1750	MIL 188-141A (weak)
USKA	7120.0	1552	28	08			A3E			BC; Music
USKA	7121.875	0746	21	08			A1			illegal jammer (dash/dots)
USKA	7122.0	0746	21	08			F1B	75	250	
USKA	7155.0	1733	07	08			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D
USKA	7165.0	1638	28	08			A3E			BC, jammed often
USKA	7165.0	1639	28	08			Noise		10 kHz	Jammer often
USKA	7170.0	1956	28	08			J7D	12 ch	2k6	CIS 12 idling, only 13 carriers
USKA	7170.0	1639	29	08			A3E			BC often
USKA	7173.0	1726	07	08			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D
USKA	7175.0	1647	20	08			A3E			BC almost daily
USKA	7175.0	1647	20	08			Noise		10 kHz	Jammer often
USKA	7180.0	1720	07	08			A3E			BC often
USKA	7184.0	2057	15	08			J7D	12x120	2k6	PSK-4: CIS12 = AT3104D
USKA	7185.0	1701	03	08			A3E			BC
USKA	7186.0	1642	19	08			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D often
USKA	7198.0	2024	23	08			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D
USKA	7200.0	1046	03	08			A3E			BC, splattering down ~5 Khz
USKA	7200.0	1702	03	08			Noise		10 kHz	Jammer
USKA	10125.0	2135	19	08			FMCW	50 sps	20k	OTHR
USKA	14000.0	1305	23	08			N0N			long lasting carrier
USKA	14006.0	0720	15	08			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D
USKA	14008.0	0803	22	08			F1B	50	250	CIS 36-50 often
USKA	14024.5	1303	15	08			FMCW		4k	slowly sweeping signal
USKA	14040.0	1126	25	08			J3E-U			no ham content (fishery?)
USKA	14058.0	0806	22	08			F1B	75	250	
USKA	14080.0	1851	28	08			F1B	75	250	often
USKA	14084.0	1013	06	08			F1B	75	250	
USKA	14099.0	2121	27	08			FMCW	40 sps	10k	OTHR; BD 6.1s BRI 32s

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	14108.0	0648	21	08			A1A			encrypted
USKA	14118.0	1018	07	08			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D often
USKA	14128.0	0705	21	08			OFDM60	30	~ 2k7	44.4Hz spacing Pilot at 3300 Hz
USKA	14141.0	1641	29	08			F1B	75	500	
USKA	14144.0	1209	31	08			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D
USKA	14162.0	0756	22	08			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D
USKA	14183.0	2206	28	08			FMCW	50 sps	10k	OTHR BD 2.5s; BRI 17.5s
USKA	14192.0	1500	02	08			F1B	50	200	almost daily
USKA	14192.0	1033	06	08			F1B	50	500	almost daily
USKA	14238.0	0856	25	08			F1B	75	250	
USKA	14242.0	0800	22	08			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D often
USKA	14272.0	1219	19	08			F1B	75	200	
USKA	14292.0	0816	21	08			A1A	20 wpm		encrypted "groups of five"
USKA	14295.0	2227	20	08			FMCW	47 sps	10k	OTHR; BD 2.5s BRI 26.5s
USKA	14295.0	1641	29	08			A3E			BC, Music; Radio Tajikistan (3 <sup>rd</sup> overtone of 4765 kHz)
USKA	14295.100	1348	30	08			N0N			long lasting carrier
USKA	14295.125	1257	23	08			N0N			long lasting carrier
USKA	14312.0	0819	21	08			F1B		200	idling only
USKA	14344.7	2129	16	08			PSK-8	2400	2k4	MIL 188-110A hybrid system
USKA	14347.0	2237	25	08			FMCW	67 sps	10k	OTHR; BD 3.7s BRI 37s
USKA	18075.0	0821	09	08			FMCW	50 sps	20k	OTHR
USKA	21250.0	1228	10	08			FMCW	50 sps	20k	OTHR
USKA	28370.0	0734	26	08			FMCW	870 sps	>50k	OTHR; changing sweeprates
USKA	21418.5	1339	30	08			F1B	600	600	ARQ often
USKA	28370.0	0835	26	08			FMCW	307 sps	~48k	
USKA	Burst systems: BD = burst duration; BRI = burst repetition interval									

## Veron 1 – Netherlands – PA2GRU (Dick)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
VERON	3746,0	22.47	25	8		UiPtr	F1B		250	
VERON	7022,0	15.16	23	8	RUS	UiMUX	FSK			12 MPSK AT3004D
VERON	7027,0	09.25	24	8	RUS	UiMUX	FSK			12 MPSK AT3004D
VERON	7027,0	10.04	24	8	RUS	UiMUX	XXX			roaring noise
VERON	7038,8	19.00	31	8	RUS	P	A1A			beacon Kaliningrad
VERON	7038,9	15.19	22	8	RUS	S	A1A			beacon loc Murmansk
VERON	7039,0	19.31	23	8	RUS	L	A1A			beacon loc St.Petersburg
VERON	7039,0	19.01	31	8		RE	A1A			beacon
VERON	7039,1	18.14	25	8	RUS	L	A1A			Beacon St.Petersburg
VERON	7039,1	14.34	28	8	RUS	L	A1A			Beacon St.Petersburg
VERON	7039,2	15.19	22	8	RUS	L	A1A			beacon, loc St.Petersburg
VERON	7039,4	18.32	4	8	CZE	OK0EPB	A1A			Time beacon; info <a href="http://www.ok0epb.cz">http://www.ok0epb.cz</a>
VERON	7050,0	18.31	4	8		UiPtr	F1B		200	In bursts
VERON	7054,0	19.32	23	8	RUS	REA4	F1B		200	Ptr/Revs Rus. Airfoce near Moscow
VERON	7054,0	18.27	4	8	RUS	UiPtr	F1B		100	Bad modulation
VERON	7054,0	18.11	30	8	RUS	REA4	F1B		200	Revs, Rus. Airforce nr Moscow
VERON	7056,0	09.24	24	8	RUS	UiMUX	FSK			12 MPSK AT3004D
VERON	7056,0	15.21	22	8	RUS	UiMUX	XXX			roaring noise
VERON	7056,0	18.12	30	8	RUS	UiMUX	XXX			rushing noise, also 31/9 1900 utc
VERON	7057,0	20.58	4	8						Frequency hopper
VERON	7057,5	21.15	25	8		UiMux	PSK8		2k2	
VERON	7091,3	12.59	4	8		UiCW	A1A			Continuous string of dashes
VERON	7091,5	19.35	4	8		UiPtr	F1B		250	
VERON	7105,0	22.08	25	8	CHN/ TWN		A3E			2 BC same freq; Chinese speech; s9/8
VERON	7164,00	15.23	22	8	RUS	UiMUX	FSK			12 MPSK AT3004D
VERON	7175,0	17.44	25	8	ERI	VOBME	A3E			E.African speech and music
VERON	7176,0	18.56	31	8		UiPtr	F1B			Ptr
VERON	10108,0	09.18	2	8	CIS	UiPTR	F1B			Carrier/Revs/Ptr (also at 16/8)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
VERON	10108,0	09.43	2	8		UiCW	F1A			UUU XXX (followed by F1B Revs/Ptr)
VERON	10130,0	vt	vd	8		UiPTR	F1B			Ptr (several days)
VERON	10130,9	14.37	28	8		UiPtr	F1B		250	
VERON	10131,0	07.55	21	8		UiPTR	F1B			Ptr
VERON	10132,0	08.14	9	8		UiCW	A1A			ZTO ZRH QYT9 k
VERON	10143,0	13.35	9	8		UiPTR	F1B			Ptr
VERON	14001,5	11.25	25	8	E	UiILL	J3E-u			Spanish, male voices
VERON	14008,0	09.06	2	8	CIS	UiPTR	F1B			Carrier/Revs/Ptr
VERON	14081,0	09.03	2	8		UiPTR	F1B			Ptr (also at 16/8)
VERON	14108,0	09.00	2	8	CIS	GYVJ	A1A			5BL (ending 171 rpt al k) (to: 1HCZ)
VERON	14108,0	10.03	7	8	CIS	GYVJ	A1A			Calls (to: PYTZ ZO1Y)
VERON	14108,0	08.32	10	8	CIS	GYVJ	A1A			QTA ZQG ZQM ZDY QYT9
VERON	14108,0	08.32	10	8	CIS	GYVJ	A1A			ZLY ZQS ZDI QYT6 k
VERON	14108,0	08.34	10	8	CIS	GYVJ	A1A			ZLN ZQD ZDE QYT6
VERON	14108,0	08.34	10	8	CIS	GYVJ	A1A			ZFI ZJM ZDV QYT9 k (to: IKET)
VERON	14108,0	11.17	16	8	CIS	V47G	A1A			ZCL ZDF ZAI QYT6 k (to: OQNC)
VERON	14108,0	07.50	21	8	CIS	5POY	A1A			QBE QRR3 k (to: YJY8)
VERON	14108,0	07.56	21	8	CIS	5POY	A1A			ZSW ZGD ZGF QRR3 k (to: JSK2)
VERON	14108,0	08.00	21	8	CIS	5POY	A1A			PPPPP 5BL (ending 940 rpt al k (to: YJY8)
VERON	14108,0	08.15	28	8	CIS	5POY	A1A			Calls (to: T4W3 MXSP XDW3 YJY8 IQAQ
VERON	14108,0	08.15	28	8	CIS	5POY	A1A			JSK2 ODX4
VERON	14108,0	11.38	29	8		5PWY	A1A			col cor 18= gogw k col cor 20= tfc
VERON	14117,0	10.00	22	8	RUS	UiMUX	FSK			12 MPSK AT3004D
VERON	14192,0	14.39	2	8		UiPTR	F1B			Revs/Ptr (also at 7/8)
VERON	14192,0	13.05	4	8	RUS	UiPtr	F1B		500	Ptr
VERON	14192,0	13.57	7	8	RUS	UiPtr	F1B		500	Idling
VERON	14192,0	12.28	25	8	RUS	UiPtr	F1B		500	Idling
VERON	14192,0	09.59	26	8	RUS	UiPtr	F1B		500	Idling
VERON	14235,0	08.54	30	8		UiMUX	FSK			12 MPSK AT3004D
VERON	14295,0	11.37	27	8		UiCAR	NON			carrier
VERON	18080,0	11.46	29	8		OTHR	FMCW			radar, 18068-18090 KHz
VERON	18162,0	13.56	12	8		UiOTHR	FMCW		25k	50pps
VERON	21125,0	09.25	26	8		UiILL	J3E-u			Unknowm language, male voices
VERON	21235,0	12.16	25	8						Frequency hopper
VERON	21261,0	09.51	26	8						Frequency hopper

## Veron 2 – Netherlands – PA2GRU (Dick)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	DETAILS
VERON	14108,0	06.37	1	8	RUS	GYVJ	A1A		To: IKET, CMNO, 1GA9, MKZ4, 1HCZ, PYTZ, ZO1Y: proc
VERON	14108,0	10.14	1	8	RUS	GYVJ	A1A		To: IKET, CMNO, 1GA9 etc: proc
VERON	7005,0	16.24	1	8	RUS	RGT77	A1A		(5BL) = K
VERON	7005,0	17.08	1	8	RUS	RGT77	A1A		RGT77 954 = (5BL) = K
VERON	14108,0	08.00	2	8	RUS	GYVJ	A1A		To: IKET, CMNO, 1GA9 etc: proc
VERON	14108,0	06.54	3	8	RUS	GYVJ	A1A		To: CMNO: 241 16 3 1046 241 = 306 = (5BL) / proc.
VERON	14108,0	07.30	3	8	RUS	WKGZ	A1A		To CMNO: QBE QYT6 K
VERON	14192,0	07.16	4	8	?	UiPtr	F1B	500	revs
VERON	21438,00	07.22	4	8	RUS	RCV	A1A		proc, 5BL
VERON	14108,0	07.12	7	8	RUS	Y1CQ	A1A		Y1CQ QTC AR (many times)
VERON	14108,0	07.15	7	8	RUS	GYVJ	A1A		GYVJ 155 16 7 1104 155 = 328 = (5BL)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	DETAILS
VERON	14108,0	07.18	7	8	RUS	GYVJ	A1A		IKET DE GYVJ ZBX ZQM ZDY QYT6 K
VERON	14108,0	07.22	7	8	RUS	GYVJ	A1A		To: IKET, CMNO, 1GA9, MKZ4, 1HCZ, PYTZ, ZO1Y: R 155 ? K
VERON	14108,0	07.33	7	8	RUS	GYVJ	A1A		IKET DE GYVJ ZBN ZBU ZXS QYT6 K
VERON	14108,0	07.05	8	8	RUS	GYVJ	A1A		to: 1GA9, MKZ4, 1HCZ, PYTZ, ZO1Y: proc
VERON	21438,0	14.41	8	8	RUS	RCV	A1A		To: RIP90: plain traffic
VERON	14108,0	05.05	9	8	RUS	GYVJ	A1A		QSO seven stations: proc.
VERON	14108,0	09.05	11	8	RUS	QQ4I	A1A		QQ4I 913 16 11 1048 913 = (5BL), proc
VERON	21438,0	07.40	11	8	RUS	RCV	A1A		RGX94 DE RCV QTC 842 24 11 0422 842 =
									NAWAREA 034 321 KARTY (etc, pln tfc)
VERON	14108,0	06.29	13	8	RUS	QQ4I	A1A		To: ZIWN, OSWG, XN5M, OQNC, V4TW, NA3X, PYNW: calls, proc
VERON	14108,0	06.36	13	8	RUS	DT8X	A1A		PYNW DE DT8X ZDU ZEM ZDL QYT9 K
VERON	14108,0	06.56	13	8	RUS	WEGI	A1A		XXX WEGI 87237 BERINGIT 8147 9206 K
VERON	14108,0	06.26	14	8	RUS	QQ4I	A1A		OQNC DE QQ4I ZEU ZDC ZDJ QYT9 K
VERON	14108,0	06.12	15	8	RUS	QQ4I	A1A		To: ZIWN, OSWG, XN5M, OQNC, V4TW, NA3X, PYNW: calls, proc
VERON	14108,0	06.31	16	8	RUS	QQ4I	A1A		To: ZIWN, OSWG, XN5M etc: proc
VERON	14108,0	06.47	16	8	RUS	WEGI	A1A		XXX WEGI 78728 ANGLICIZM 1750 5607
VERON	7005,0	17.09	16	8	RUS	RGT77	A1A		RGT77 861 = (5BL) = K
VERON	14108,0	06.24	17	8	RUS	QQ4I	A1A		NA3X DE QQ4I ZDU ZEM ZDL ZGM ZDA ZLP QYT6 K
VERON	14108,0	06.29	17	8	RUS	QQ4I	A1A		To: ZIWN, OSWG, XN5M etc: proc
VERON	14108,0	05.31	18	8	RUS	QQ4I	A1A		QQ4I QRJ NO QYT9 K (etc, proc)
VERON	14108,0	06.55	19	8	RUS	QQ4I	A1A		PYNW DE QQ4I QTC 179 16 19 1048 179 = 811 = (5BL) 179 RPT AL QLN K
VERON	14108,0	08.06	19	8	RUS	DT8X	A1A		DT8X ZDI ZDF ZWM QYT6 K
VERON	14108,0	06.32	20	8	RUS	QQ4I	A1A		To: ZIWN, OSWG, XN5M etc: proc
VERON	14108,0	06.09	21	8	RUS	5POY	A1A		YJY8 DE 5POY ZSD ZGT ZSH ZPT ZSS ZKF QRR3 K
VERON	14108,0	06.39	21	8	RUS	5POY	A1A		To: T4W3, MXSP, IQAQ, XDWC, JSK2, ODX4: calls, proc [Starting 21 aug: New "callsigns")
VERON	14108,0	06.14	22	8	RUS	Y1CQ	A1A		Y1CQ QTC ZSU AR (many times)
VERON	14108,0	06.18	22	8	RUS	5POY	A1A		5POY 032 20 22 1004 032 = ZSU 928 = (5BL)
VERON	14108,0	06.46	22	8	RUS	JSQQ	A1A		IAAQ DE JSQQ ZWR ZCP ZPC QYT6 K
VERON	7005,0	17.09	24	8	RUS	RGT77	A1A		RGT77 420 = (5BL) = K
VERON	14108,0	05.12	27	8	RUS	5POY	A1A		MXSP DE 5POY QTC 175 20 27 0904 175 ZSF 161 (5BL) 117 RPT AL QLN K
VERON	14108,0	06.22	27	8	RUS	5POY	A1A		To: T4W3, MXSP, IQAQ, XDWC, JSK2, YJY8, ODX4: proc
VERON	14108,0	06.55	28	8	RUS	5POY	A1A		ODX4 DE 5POY QTC 646 16 28

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	DETAILS
									1048 646
									670 (5BL) RPT AL QLN K
VERON	14108,0	06.42	30	8	RUS	5POY	A1A		To: MXSP, IQAQ, XDWC, JSK2, QJY8,
									ODX4: calls, proc
VERON	7005,0	17.28	31	8	RUS	RGT77	A1A		RGT77 851 = (5BL) = K

# 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**

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