



Monitoring System

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The monthly newsletter for Region 1

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The 24 members of the IARUMS Region 1 Monitoring Team:



Acknowledgements

++ ARI: DH7SA – Salvatore ++ ARSK: 5Z4NU - Ted ++ ASTRA: DL1BDF – Mustapha ++ DARC: DJ9KR – Uli ++
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++ 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. BC on 7180 kHz

On July 31st I found a strong BC emission on 7179.990 kHz and informed the German PTT.. We were not astonished to hear, that the emission came from Eritrea.

2. CODAR on 14070 – 14125 kHz

The CODAR in North East India is still active daily and all day!

3. More MIL-traffic on 7 MHz

Russian MIL traffic in F1B and PSK increased. After the latest sunstorm the conditions on the upper bands went down. This could be the reason.

4. Beacon “L” on 7039.2 kHz

The cluster beacon “L” appeared on 7039.2 kHz. Location: St. Peterburg. The German PTT was informed..

5. Unid Clover2000 on 21 MHz

A Clover2000 mailbox was active on 21138.472 kHz, often idling. Location: area of Oman. Purpose unknown. Parameters: 8 x 62.5 Bd, shift 1750 Hz, PSK4., transmitting daily and all day.

6. Keep our systems clean! Avoid virus infections!

It is necessary to keep our systems clean. An excellent tool is the **Microsoft Safety Scanner** (freeware). As you know: Never install two antivirus programs on the same PC. But the Microsoft Safety Scanner is a standalone program, which does not appear in the registry. So you can use it beside your normal antivirus program without any problem. I tried it. I stored this link under **Important Links** on our homepage, too.

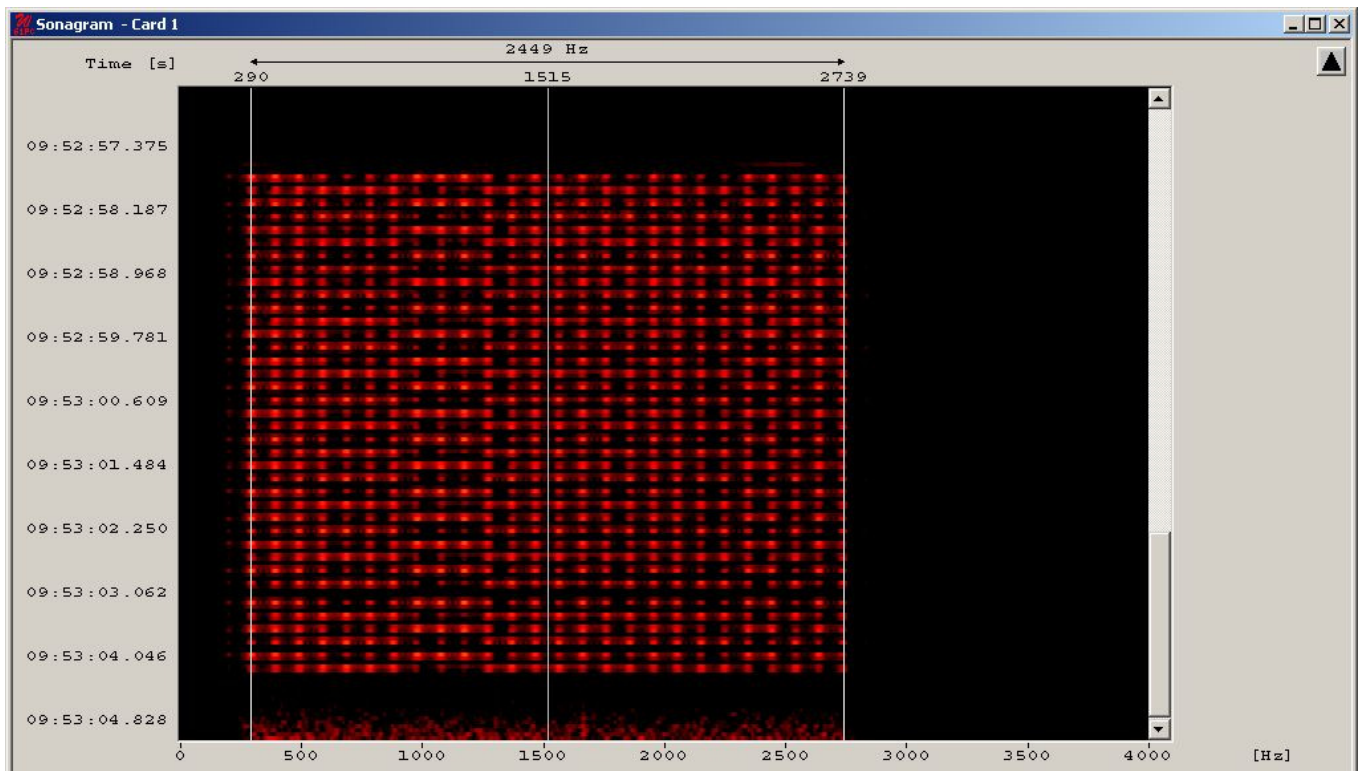
<http://www.microsoft.com/security/scanner/de-de/default.aspx>

7. Unid burst system on 4 bands

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. Repetition: Every 15 minutes. The signals came from France. AF analyze showing CODAR similar signals, 6 sweeps/sec. The real purpose is unknown, perhaps a new kind of OTH radar or Ionosonde? The German PTT filed a complaint. Observe the screenshot below!

soundfile: <http://www.iarums-r1.org/iarums/sound/14000-r.wav> (recording by DK2OM)

Screenshot: Sonagram with Wavecom W61 (DK2OM)



8. Homepage IARU Region 1 <http://www.iaru-r1.org/>
- Homepage IARUMS Region 1 <http://www.iarums-r1.org>
- Homepage IARUMS Region 2 <http://www.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 *** **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)
5BL = 5 cyrillic lettergroups

ARSK MONITORING OVERVIEW FOR JULY 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. Two Somali stations were heard in contact briefly on 7050 kHz, without identification and no indication of their position.

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

ARSK – Kenya – 5Z4NU (Ted)

H'd by	kHz	UTC	dd	mm	ITU	Identity	MODE	Details
ARSK	7000.0	vt	dly	7	E. Africa?	UiPhone	J3E	Kiswahili & vernacular.
ARSK	7010.0	1035	12	7	DRC?	UiPhone	J3Eu	Vernacular.
ARSK	7050.0	1040	12	7	SOM	UiPhone	J3E	Somalis.
ARSK	7075.0	vt	*	7	DRC?	UiPhone	J3Eu	Unidentified, probably DRC.*15,22,
ARSK	7090.0	vt	*	7	DRC?	UiPhone	J3E	Vernacular.*11,12,24,
ARSK	7133.0	1043	12	7	DRC?	UiPhone	J3Eu	Vernacular.
ARSK	7175.0	vt	*	7	ERI?	UiBC	A3E	VoBM, Eritrea. 11,12,
ARSK	7190.0	vt	var	7	?	UiBC	A3E	Possibly VOBM or Addis Ababa.
ARSK	7200.0	vt	dly	7	SDN	Khartoum	A3E	Broadcast, Khartoum.

DARC 1 – Germany – DJ9KR (UiI) BC transmissions, IM products, harmonics = blue

CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	BD	SH	Remarks and Comments
DARC	7000,0	vt	02	07	I	UiILL	J3E-L			2 male persons in Italian voice
DARC	7000,0	2014	06	07	F	UiILL	J3E-U			French male traffic, fishery , talking about "langoustines", engine noise
DARC	7000,0	2053	30	07	I	UiILL	J3E-L			net of Italian male persons, other than 7000,1 activity at the same time
DARC	7000,0	vt	vd	07	E	UiILL	J3E-U			Spanish fishery
DARC	7000,0	vt	vd	07	INS	UiILL	J3E			Indonesian pirates, using SSB-USB and alternatively SSB-LSB, daily - heard at 1640, 1900
DARC	7000,0	vt	vd	07	I	UiILL	J3E-U			Italian pirates, SSB-USB
DARC	7000,1	vt	03	07	I	UiILL	J3E-L			2 m in Italian voice, one OP is Angelo from Sicily Is., heard 2051 - 2058 s/off
DARC	7000,1	2053	30	07	I	UiILL	J3E-L			2 m in Italian voice
DARC	7007,3	2107	01	07		UiILL	J3E-U			unid male voices, unid language, poss. MRC
DARC	7008,0	2045	20	07	RUS	UiPTR	F1B	75	250	is RUS MIL Mosocw
DARC	7009,0	vt	03	07	RUS	V.o.Russ	A3E			church bells ringing at s/off

CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	BD	SH	Remarks and Comments
						ia				2100
DARC	7009,0	0542	05	07		UiMUX	XXX			multiplex
DARC	7009,0	2049	20	07	RUS	V.o.Russia	A3E			Orthodox divine service
DARC	7009,0	vt	vd	07	RUS	V.o.Russia	A3E			is IM 1089 x 5920, location Krasnodar-Armavir Tbilisskaya - heard all month 1950 - 2100
DARC	7010,0	2131	04	07	RUS	UiMUX	PSK2			AT-3004-D, location nw of Gawnogorsk
DARC	7016,0	vt	vd	07		UiPTR	F1B			unid printer
DARC	7020,0	0121	03	07		UiBC	A3E			BC, weak
DARC	7020,0	2102	13	07		UiBC	A3E			weak signal
DARC	7020,0	1800	28	07	F	UiILL	J3E-U			French male traffic, engine noise
DARC	7038,7	0000	24	07	UKR	beacon "D"	A1A			is Sevastopol
DARC	7038,8	vt	vd	07	RUS	beacon "P"	A1A			beacon "P" - Kaliningrad
DARC	7038,9	0240	19	07	RUS	beacon "S"	A1A			is Murmansk
DARC	7038,9	vt	vd	07	RUS	beacon "S"	A1A			beacon "S" - Murmansk
DARC	7039,0	1800	06	07	RUS	beacon "C"	A1A			beacon "C" - Moscow heard 0700, 1800, 1900
DARC	7039,1	vt	vd	07	KGZ	beacon "A"	A1A			beacon "A" - Bishkek
DARC	7039,2	vt	vd	07	RUS	beacon "F"	A1A			beacon "F" - Vladyvostok
DARC	7039,3	vt	vd	07	RUS	beacon "K"	A1A			beacon "K" - Petropavlovsk
DARC	7039,4	2012	13	07	CZE	OK0EPB	A1A			time signal by a "radio beacon driven by pendulum" (see www.ok0epb.nagano.cz) --- exact QRG = 7039.472 measured by DK2OM
DARC	7039,4	vt	vd	07	RUS	beacon M	A1A			beacon "M" - Magadan
DARC	7041,8	1928	20	07	RUS	beacon "L"	A1A			is St. Petersburg
DARC	7054,0	vt	dly	07	RUS	UiILL	F1B			heard 1700 - 2400
DARC	7054,0	h24	vd	07	RUS	RUS Navy	F1B	50	200	RUS Navy Moscow daily heard 0600 - 2330, 0056, fast reversals most of the time
DARC	7056,0	2102	13	07		UiMUX	XXX			rushing noise
DARC	7089,8	1948	20	07		UiMUX	PSK8			Link11 - SLEW
DARC	7091,5	0707	20	07		UiPTR	F1B			s/on reversals
DARC	7092,0	1155	17	07		UiPTR	F1B	?	250	unid printer
DARC	7093,0	1549	18	07		UiMUX	PSK2			AT-3005-D
DARC	7100,0	1622	14	07		UiBC	A3E			unid BC
DARC	7100,0	vt	19	07	I	UiILL	J3E-U			2 male persons in Italian dialect, engine noise (fishery?)
DARC	7100,0	1525	vd	07	ETH	Govt. Jam	JAM			white noise jammer
DARC	7100,0	1525	vd	07	ERI	VOBME	A3E			under wn-jammer
DARC	7100,0	1745	vd	07	ERI	VOBME	A3E			Somali px S9, weak modulation, found // 7165
DARC	7100,5	0709	20	07		UiCAR	N0N			long lasting carrier
DARC	7101,0	0707	20	07		UiMUX	XXX			8 channels
DARC	7102,0	vt	vd	07		UiPTR	F1B			unid printer heard all month at 1350 - 1800
DARC	7103,5	0709	20	07		UiMUX	XXX			8 channels
DARC	7105,0	2101	01	07		UiCAR	N0N			long lasting carrier with hum, S9+20dB
DARC	7105,0	2024	02	07		UiBC	A3E			unid BC
DARC	7105,0	1809	14	07		UiCAR	N0N			long lasting carrier
DARC	7105,0	2023	15	07	TUN	RTV Tunisia	A3E			Ar mx, is IM 7225 x 7345
DARC	7105,0	2155	16	07	TWN	Sound of	A3E			under Chinese BC which is

CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	BD	SH	Remarks and Comments
						Hope				used as a jammer, 2135 - 2220
DARC	7105,0	2155	16	07	CHN	Soh Xi Wang Zhi Sheng	A3E			Chinese BC which is used as a jammer, 2200 - 2300
DARC	7105,0	vt	16	07	TUN	RTV Tunisia	A3E			heard 1915 - 2108 s/off
DARC	7105,0	2200	27	07	CHN	Soh Xi Wang Zhi Sheng	A3E			Chinese BC which is used as a jammer, 2150 - 2300
DARC	7105,0	2200	27	07	TWN	Sound of Hope	A3E			under Chinese BC which is used as a jammer, 2200 - 2300
DARC	7105,0	vt	vd	07	TUN	RTV Tunisia	A3E			IM of 7225 and 7345, audible 1857 - 2108, location is Sfax - already heard July 2009
DARC	7110,0	0000	24	07	BRM	R.Myanmar	A3E			typical music
DARC	7110,0	1545	vd	07	ERI	VOBME	A3E			under heavy jam by ETH
DARC	7110,0	1545	vd	07	ETH	Govt. Jam	JAM			heavy white noise jam
DARC	7111,0	vt	14	07		UiPTR	F1B			heard 1619 - 1843
DARC	7115,0	1630	vd	07	ERI	VOBME	A3E			is active
DARC	7115,0	1630	vd	07	ETH	Govt. Jam	JAM			white noise jammer on VOBME
DARC	7120,0	vt	18	07	ERI	VOBME	A3E			under white noise jammer, heard 1610 - 1701
DARC	7120,0	vt	18	07	ETH	Govt. Jam	JAM			white noise jammer, heard 1610 - 1701
DARC	7120,0	1628	20	07	ETH	Govt. Jam	JAM			white noise jammer on VOBME
DARC	7120,0	1628	20	07	ERI	VOBME	A3E			under white noise jammer of ETH Govt.
DARC	7122,0	2102	13	07		UiPTR	F1B			unid printer
DARC	7122,0	vt	14	07		UiPTR	F1B			heard 1619 - 2007
DARC	7122,0	2045	20	07		UiMUX	PSK2			AT-3004-D
DARC	7132,0	vt	14	07	UKR	UiMUX	PSK2			12 x 120 Bd, AT-3004-D, heard 1619 - 2007, location Lviv
DARC	7160,0	1733	vd	07	ETH	Govt. Jam	JAM			heavy white noise jam
DARC	7160,0	1733	vd	07	ERI	VOBME	A3E			under heavy white noise jam
DARC	7165,0	1704	14	07	ETH	ETH Govt Jammmer	JAM			white noise jammer
DARC	7165,0	1635	vd	07	ERI	VOBME	A3E			under heavy jam by ETH
DARC	7165,0	1635	vd	07	ETH	Govt. Jam	JAM			heavy jam by ETH
DARC	7165,0	1745	vd	07	ERI	VOBME	A3E			Ar px S9+20dB, found // 7100
DARC	7165,0	vt	vd	07	ERI	VOBME	A3E			seems to be main tx-ing frequency
DARC	7170,0	1758	18	07	ERI	VOBME	A3E			typical HOA music
DARC	7175,0	vt	01	07	ERI	VOBME	A3E			px in Arabic voice, s/off with Ntl. Anthem "Yiritriya", heard 1735 - 1801 s/off
DARC	7175,0	1627	13	07	ETH	Govt. Jam	JAM			white noise jammer on VOBME
DARC	7175,0	1627	13	07	ERI	VOBME	A3E			under white noise jammer of ETH Govt.
DARC	7175,0	1619	14	07	ERI	VOBME	A3E			under white noise jammer
DARC	7175,0	1619	14	07	ETH	Govt. Jam	JAM			white noise jammer
DARC	7175,0	vt	16	07	ERI	VOBME	A3E			HOA music, heard 1731 - 1747
DARC	7175,0	1535	18	07	ETH	Govt. Jam	JAM			white noise jammer 1540 - 1753
DARC	7175,0	1535	18	07	ERI	VOBME	A3E			under wn-jammer 1540 - 1753
DARC	7175,0	vt	dly	07	ERI	VOBME	A3E			location Asmara-Selea Daro,

CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	BD	SH	Remarks and Comments
						2 (Dimtsi Hafash)				Eritrea
DARC	7175,0	vt	dly	07	ERI	VOBME	A3E			here are the various language programs reported by Wolf DF5SX:
DARC	7175,0	vt	dly	07	ERI	VOBME	A3E			0430 - 0530: Amharic
DARC	7176,0	2016	23	07		UiPTR	F1B			unid printer
DARC	7180,0	0432	28	07	ETH	Govt. Jam	JAM			heavy wn jammer from ETH s/on
DARC	7180,0	vt	28	07	ERI	VOBME	A3E			Arabic voice, HOA music, 0315 - 0433
DARC	7180,0	vt	28	07	ERI	VOBME	A3E			1745 -1800: Arabic voice, "Eritrea" and "Asmara" often mentioned, s/off with National Anthem at 1800, carrier s/off at 1802
DARC	7180,0	0333	29	07	ERI	VOBME	A3E			Ar px
DARC	7180,0	1540	vd	07	ERI	VOBME	A3E			under heavy wn jammer from ETH
DARC	7180,0	1540	vd	07	ETH	Govt. Jam	JAM			heavy wn jammer from ETH
DARC	7185,0	1636	02	07	ETH	Govt. Jam	JAM			white noise jammer s/on, heard 1636 - 1657
DARC	7185,0	vt	02	07		UiBC	A3E			Arabic px, heard 1634 - 1657
DARC	7185,0	1719	03	07	ERI	VOBME	A3E			HOA music, heard 1719 - 1802 s/off
DARC	7185,0	1432	vd	07	ETH	Govt. Jam	JAM			white noise jammer
DARC	7185,0	1432	vd	07	ERI	VOBME	A3E			covered by white noise jammer
DARC	7189,7	0055	01	07	CLN	SLBC Sri Lanka	A3E			S9+15dB, QSB
DARC	7189,7	0015	03	07	CLN	SLBC Sri Lanka	A3E			measuring tone
DARC	7189,7	0121	03	07	CLN	SLB Sri Lanka	A3E			typical music heard 03, 22, 27 - times 0121, 0215, 2213
DARC	7189,7	vt	vd	07	CLN	SLB Sri Lanka	A3E			heard 0020 - 0105
	7190,0	0426	23	07	ERI	VOBME	A3E			HOA music - report DF5SX
DARC	7190,0	1608	vd	07	ERI	VOBME	A3E			under heavy jam by ETH
DARC	7190,0	1608	vd	07	ETH	Govt. Jam	A3E			under heavy jam by ETH
DARC	7192,0	vt	vd	07		UiMUX	PSK2			AT-3004-D, heard all month at 1700 - 2130
DARC	7195,0	1440	vd	07	ERI	VOBME	A3E			jingle, found // to R.Ethiopia on the same QRG
DARC	7195,0	1545	vd	07	ETH	R.Ethiopia	A3E			jingle, found // to VOBME on the same QRG
DARC	7200,0	vt	02	07		UiBC	A3E			heard 1634, 2037
DARC	7200,0	0332	03	07	SDN	R.Omdurman	A3E			Ar px, found // with Voice of Justice (IRIB), 0335, 1648
DARC	7200,0	0332	03	07	IRN	Voice of Justice (IRIB)	A3E			English px, found // with R.Omdurman
DARC	7200,0	vt	03	07	ETH	R.Ethiopia	A3E			French px heard 1719 - 1800 s/off
DARC	7200,0	1928	07	07		UiBC	A3E			unid BC
DARC	7200,0	vt	07	07		UiBC	A3E			heard 1500 - 2100
DARC	7200,0	1607	vd	07	AFG	Ntl. Radio of Afghanistan	A3E			not heard in July
DARC	7200,0	2110	vd	07	IRN	IRIB	A3E			Japanese px S9+25dB - 2058 - 2121 - not heard in July
DARC	7205,0	0053	21	07		UiBC	A3E			extremely harmful splatters, BC totally overmodulated, carrier rocking

CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	BD	SH	Remarks and Comments
DARC	7205,0	2000	dly	07		UiBC	A3E			French px, splattering down till 7185 heavily
DARC	10101,0	1900	dly	07	Af	UiILL	J3E-U			African Tribal language, 1900, 2000
DARC	10115,0	2130	dly	07	E	UiILL	J3E-U			Spanish fishery
DARC	10121,0	vt	vd	07	S.As	UiILL	J3E-U			male persons, S.As language
DARC	10121,5	2139	vd	07	MRC	UiILL	J3E-U			Moroccan fishery
DARC	10125,0	vt	vd	07	POR	UiILL	J3E-U			2 male persons in Portuguese voice
DARC	10131,0	2113	13	07	MRC	UiILL	J3E-U			male net in Arabic
DARC	10133,0	1615	16	07	S.As	UiILL	J3E-U			2 male persons, S.As language
DARC	10135,0	vt	vd	07		UiILL	J3E-U			unid pirates, unid language
DARC	10135,6	vt	vd	07		UiILL	J3E-U			unid pirates heard 2000 - 2100 UTC
DARC	10150,0	1800	07	07		UiILL	J3E-U			unid male voices
DARC	10150,0	1849	17	07	MRC	UiILL	J3E-U			Moroccan fishery
DARC	10150,0	0731	29	07	E	UiILL	J3E-U			2 male persons in Spanish voice, S9-signal - USB is outside ham band
DARC	10150,0	1800	dly	07	E	UiILL	J3E-U			Spanish and Moroccan fishery
DARC	14000,0	vt	dly	07	MRC	UiILL	J3E-U			Moroccan fishery
DARC	14000,0	vt	dly	07	INS	UiILL	J3E-U			Far East pirates, singing and fooling around, heard 1500, 1800
DARC	14000,0	1500	vd	07	INS	UiILL	J3E-U			Indonesian pirate net
DARC	14000,0	vt	vd	07	B	UiILL	J3E-U			Brazilian pirates
DARC	14005,0	1900	dly	07	CLN	UiILL	J3E-U			Sinhala fishery
DARC	14008,0	vt	vd	07	RUS	UiPTR	F1B	50	250	fast reversals heard 0720 - 0835. location is Moscow
DARC	14024,0	0800	vd	07		UiPTR	F1B			unid printer S9+20dB
DARC	14028,0	0730	vd	07		UiPTR	F1B			unid printer 0730 - 0815 UTC
DARC	14044,0	vt	vd	07		UiPTR	F1B			unid printer
DARC	14050,0	vt	vd	07		UiPTR	F1B			unid printer
DARC	14075,0	vt	dly	07	IND	Sea Wave Radar	FMCW			heard 14075 - 14115 kHz at 1500 - 2100 UTC - location Gulf of Bengal
DARC	14095,0	vt	dly	07	INS	UiILL	J3E-U			Indonesian pirate net, singing, chatting
DARC	14100,0	vt	dly	07	INS	UiILL	J3E-U			Indonesian pirate net, singing, chatting
DARC	14105,0	vt	dly	07	INS	UiILL	J3E-U			Indonesian pirate net, singing, chatting
DARC	14110,0	vt	05	07		UiPTR	F1B			unid printer heard 0554 - 0621
DARC	14110,0	0801	28	07		UiMUX	FSK8			ALE heard
DARC	14112,0	0744	20	07		UiMUX	XXX			multiplex
DARC	14192,0	1354	02	07	RUS	RUS Navy	F1B	50	200	fast reversals, is RUS Navy Kaliningrad
DARC	14192,0	1316	18	07	RUS	RUS Navy	F1B	50	200	printer, is RUS Navy Kaliningrad
DARC	14295,1	vt	02	07	TJK	R.Tajikistan	A3E			heard 1354 - 1633
DARC	14295,1	vt	18	07	TJK	R.Tajikistan	A3E			is active 1313 - 1441
DARC	14302,0	0733	20	07		UiMUX	PSK2			AT-3004-D
DARC	14317,7	0733	20	07		UiCAR	N0N			long lasting carrier
DARC	14350,0	vt	vd	07	E	UiILL	J3E-U			Spanish fishery heard with phone patches
DARC	14385,0	vt	26	07		UiOTHR	FMCW			location either Cyprus or Turkey, is outside of ham band, just info - report DG0JBJ
DARC	21000,0	vt	04	07		UiOTHR	FMCW			location either Cyprus or Turkey - report DG0JBJ
DARC	21000,0	1700	22	07	SDN	MFA Sudan	J3E-U			Ar male traffic, poss. MFA Sudan with Sudan Emba Yemen
DARC	21000,0	1700	22	07	YEM	Sudan Emba Yemen	J3E-U			Ar male traffic, poss. MFA Sudan with Sudan Emba Yemen

CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	BD	SH	Remarks and Comments
DARC	21000,0	vt	vd	07		UiOTHR	FMCW			26 reports all month concerning an Unid OTH-Radar in the range 21000 - 21400 kHz - report DG0JBJ
DARC	21010,0	vt	08	07		UiOTHR	FMCW			is either Cyprus or Turkish OTH-Radar - report DG0JBJ
DARC	21010,0	vt	08	07		UiOTHR	FMCW			is either Cyprus or Turkish OTH-Radar - report DG0JBJ
DARC	21015,0	vt	05	07		UiOTHR	FMCW			is either Cyprus or Turkish OTH-Radar - report DG0JBJ
DARC	21025,0	vt	14	07		UiOTHR	FMCW			is either Cyprus or Turkish OTH-Radar - report DG0JBJ
DARC	21025,0	vt	14	07		UiOTHR	FMCW			is either Cyprus or Turkish OTH-Radar - report DG0JBJ
DARC	21025,0	vt	15	07		UiOTHR	FMCW			is either Cyprus or Turkish OTH-Radar - report DG0JBJ
DARC	21030,0	vt	15	07		UiOTHR	FMCW			is either Cyprus or Turkish OTH-Radar - report DG0JBJ
DARC	21098,0	0822	28	07	RUS	UiILL	F1B			scrambled voice, Vocoder Yakhta, inband synchro, report DO5MZ
DARC	21190,0	vt	05	07		UiOTHR	FMCW			is either Cyprus or Turkish OTH-Radar - report DG0JBJ
DARC	21190,0	vt	08	07		UiOTHR	FMCW			is either Cyprus or Turkish OTH-Radar - report DG0JBJ
DARC	21210,0	vt	14	07		UiOTHR	FMCW			is either Cyprus or Turkish OTH-Radar - report DG0JBJ
DARC	21220,0	vt	07	07		UiOTHR	FMCW			is either Cyprus or Turkish OTH-Radar - report DG0JBJ
DARC	21225,0	1145	20	07		UiMUX	XXX			SP of 21243
DARC	21243,0	1145	20	07		UiMUX	XXX			multiplex
DARC	21257,0	1145	20	07		UiMUX	XXX			SP of 21243
DARC	21260,0	1136	20	07		UiBC	A3E			unid BC, IM?
DARC	21300,0	vt	05	07		UiOTHR	FMCW			is either Cyprus or Turkish OTH-Radar - report DG0JBJ
DARC	21300,0	vt	08	07		UiOTHR	FMCW			is either Cyprus or Turkish OTH-Radar - report DG0JBJ
DARC	21310,0	vt	05	07		UiOTHR	FMCW			is either Cyprus or Turkish OTH-Radar - report DG0JBJ
DARC	21310,0	vt	08	07		UiOTHR	FMCW			is either Cyprus or Turkish OTH-Radar - report DG0JBJ
DARC	21310,0	vt	08	07		UiOTHR	FMCW			is either Cyprus or Turkish OTH-Radar - report DG0JBJ
DARC	21400,0	vt	05	07		UiOTHR	FMCW			is either Cyprus or Turkish OTH-Radar - report DG0JBJ
DARC	28000,0	vt	vd	07		Fishnet Buoy	A1A			DJ7KG, DK2OM, G3YBT, KG4GVV, and SV1ATJ have sent to DARC-MS 203 reports re. Fishnet Buoy in the range 27999,6 - 28442,1 kHz - pse hit www.iarums-r1.org/iarums/buoys.pdf
DARC	28000,0	vt	vd	07		UiOTHR	FMCW			Due to poor condx on 10 m there was no OTH-Radar reported in the range 28000 - 29700 kHz.
DARC	28130,0	0627	05	07	CIS	RUS TAXI	F3E			taxi business

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	07	POL		A3E			Polish “PIP” – 10 tones – navigation system - North-Poland – Baltic coast - POL Navy – legal operation (ITU footnote)
DK2OM	1876,8	ady	dly	07	G		PSK8	2400	2400	Stanag4285 - 1200 bps long - Scotland
DK2OM	1881,4	ady	dly	07	F		QPSK	100	100	BC-PSK – Radio Navigation – Nantes - France
DK2OM	1896,5	ady	dly	07	D		PSK8	2400	2400	Stanag4285 - 600 bps long - German Navy
DK2OM	3500,0	vt	dly	07	TUR	no ITU	FSK8	125	1750	ALE, “2015” “2016” “1020” “3010”- Turkish Red Crescent - legal
DK2OM	3500,0	1945	09	07	E		USB			Spanish fishery
DK2OM	3500,0	1930	13	07	F		FMCW		20k	unid burst system – 6 sps bursts – same as on 21000.0, 14000.0 and 7000.0 kHz
DK2OM	3500,0	1900	17	07	I		USB			Italian pirates – fishery? – also: 24.07. at 1940 utc
DK2OM	3500,5	2000	09	07	CIS		A3E			CIS pirates in AM, unstable carrier
DK2OM	3503,5	vt	dly	07	G	no ITU	FSK8	125	1750	ALE – “XSS” “XPU” – British MIL Tascomm
DK2OM	3510,0	vt	dly	07	ALG	no ITU	FSK8	125	1750	ALE, “JE30” “PT30”
DK2OM	3512,0	1950	30	07	CIS		A3E			CIS pirates in A3E (= AM)
DK2OM	3515,0	2006	28	07	E		USB			Spanish fishery
DK2OM	3515,5	1935	14	07	CIS		A3E			CIS pirates – unstable carrier
DK2OM	3524,0	2002	09	07	RUS		F1B	75	250	area of Novgorod
DK2OM	3526,0	1856	31	07	RUS		PSK2	120	2600	AT3004D – area of Velikije Luki
DK2OM	3532,0	vt	dly	07	ALG	no ITU	FSK8	125	1750	ALE, “UN3” “VQ30”
DK2OM	3533,0	vt	dly	07	E	no ITU	FSK8	125	1750	ALE, “TYBB1” “TYVC1” “TCS” “TYVV1” - Spanish Guardia Civil
DK2OM	3533,0	2150	25	07	E		USB			Spanish fishery with vocoder CRY2001
DK2OM	3533,8	2120	30	07	F		PSK4	75	2300	Link11 – CLEW – area of Brest
DK2OM	3540,0	2200	16	07	E		USB			Spanish fishery
DK2OM	3545,0	vt	dly	07	ALG	no ITU	FSK8	125	1750	ALE, “FL49” “FL57” “PT50” - ALG MIL + voice traffic USB and scrambler
DK2OM	3545,0	1930	16	07	RUS		PSK2	120	2600	AT3004D – Velikije Luki
DK2OM	3550,0	2140	25	07			USB			Scandinavians
DK2OM	3553,8	ady	dly	07	TUR		PSK8	2400	2400	Stanag4285 – TUR MIL - Ankara
DK2OM	3558,0	vt	dly	07			FSK8	125	1750	ALE, “403”
DK2OM	3567,5	0824	25	07	RUS		PSK2	120	2600	AT3004D – Kaliningrad
DK2OM	3569,0	1910	24	07	RUS		F1B	50	200	St. Peterburg
DK2OM	3585,0	1700	dly	07	TWN	HLL	FIC			120 rpm, IOC 576, Wxfax - legal!
DK2OM	3587,0	vt	dly	07	E	no ITU	FSK8	125	1750	ALE, “TVV” “TXX” - Spanish Guardia Civil
DK2OM	3590,0	vt	dly	07	PAK	no ITU	FSK8	125	1750	ALE, “KW” “ZULFIQUARI” “KHAIBAR” “SAIF1” “NRS”- Pakistan Navy
DK2OM	3590,0	1950	09	07	E		USB			Spanish fishery with vooder CRY2001
DK2OM	3590,0	1740	16	07	E		USB			Spanish fishery
DK2OM	3595,0	vt	dly	07	D	no ITU	FSK8	125	1750	ALE, „ZLST“ „ZPRI“ „ZSHO“

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										„ZBOR“ „ZEMD“ „ZHEL“ „ZKNI“ „ZBOR“ „BPLEZS“ German customs – North-Germany
DK2OM	3596,0	vt	dly	07	HRV	9A0ALE	FSK8	125	1750	Croatian emergency ALE-net --- for info!
DK2OM	3601,0	vt	vd	07	D	DA0EC	PSK8	2000	2000	RFSM 8000 – amateur emergency net - Berlin - legal operation - just for info!!!
DK2OM	3602,5	vt	dly	07	AUT	OE9XRK	PSK2/4	1800	1800	Pactor4 – Mailbox OE9XRK – just for info!
DK2OM	3603,0	vt	dly	07	ALG	no ITU	FSK8	125	1750	ALE, “PT01JL94” “JL05JL94”
DK2OM	3610,0	vt	dly	07	D		PSK8	200	500	German APRS Net in Robust Packet - just for info!
DK2OM	3617,0	vt	dly	07	HRV	9A5EX	FSK8	125	1750	ALE, “9A5EX1P” – HAM-ALE - just for info
DK2OM	3622,5	1800	dly	07	J	JMH	FIC			Tokyo Meteo – 120 rpm – IOC576 – daily, legal!!!
DK2OM	3626,0	vt	dly	07	HRV	9A5EX	FSK8	125	1750	ALE, “9A5EX” – just for info
DK2OM	3660,0	vt	dly	07	ALG	no ITU	FSK8	125	1750	ALE, “UN20” XT20” - Algerian MIL
DK2OM	3723,0	1953	26	07	RUS		PSK2	120	2600	AT3004D - Moscow
DK2OM	3750,0	2030	19	07			FMCW		20k	unid burst system – 6 sps bursts of 10.4 sec – every 15 min.
DK2OM	3751,5	vt	dly	07	POL	no ITU	FSK8	125	1750	ALE, “LA7” “MI3”
DK2OM	3756,0	ady	dly	07	UKR		A3E			UKR – pip – 10 tones – navigation system
DK2OM	3761,5	vt	dly	07	POL	no ITU	FSK8	125	1750	ALE, “NI9” “AB2” – Polish military
DK2OM	3772,0	2008	11	07	RUS		F1B	50	200	Kaliningrad
DK2OM	3782,0	ady	dly	07	POR	CTP	F1B	75	850	POR Navy headquarter Lisbon
DK2OM	7000,0	ady	dly	07	INS		U/LSB			Indonesian pirates in USB and LSB – evrey evening audible in Europe
DK2OM	7000,0	2016	11	07	F		FMCW		20k	unid burst system – 6 sps bursts – same as on 14000.0 kHz - every 15 min.
DK2OM	7000,0	1049	03	07						frequency hopper
DK2OM	7000,0	0800	26	07	MRC		USB			Moroccan fishery
DK2OM	7005,0	1516	01	07	CHN		FMCW		63k	CHN OTH Radar – 43.5 sps – 6942 – 7005 Hr
DK2OM	7010,0	1912	04	07	RUS		PSK2	120	2600	AT3004D – Penza - also: 17.07.12 at 1758 utc
DK2OM	7036,0	1349	10	07	RUS		PSK2	120	2600	AT3004D – Far East Russia
DK2OM	7038,7	ady	dly	07	UKR	D	A1A			Cluster beacon – Sevastopol RUS Navy – “RCV”
DK2OM	7038,8	ady	dly	07	RUS	P	A1A			Cluster beacon – Kaliningrad RUS Navy – “RMP”
DK2OM	7038,9	ady	dly	07	RUS	S	A1A			Cluster beacon – Severomorsk RUS Navy – „RIT“
DK2OM	7039,0	ady	dly	07	RUS	C	A1A			Cluster beacon - Moscow RUS Navy - “RIW”
DK2OM	7039,0	1754	30	07						frequency hopper
DK2OM	7039,1	vt	dly	07	KGZ	A	A1A			Cluster beacon – Bishkek RUS Navy – “RJH25”
DK2OM	7039,2	2143	26	07	RUS	L	A1A			Cluster beacon – St. Peterburg “RJC66”
DK2OM	7039,3	ady	dly	07	RUS	F	A1A			Cluster beacon - Vladivostok RUS Navy - “RJS”
DK2OM	7039,4	vt	dly	07	RUS	K	A1A			Cluster beacon - Petropavlovsk Kamchatskiy - RUS Navy - Pacific fleet - “RCC”
DK2OM	7039,5	1437	03	07	RUS	M	A1A			Cluster beacon – Magadan RUS Navy – „RTS“
DK2OM	7040,0	vt	dly	07	F	F6BAZ	FSK8	125	1750	ALE, “F6BAZ” – just for info
DK2OM	7040,5	vt	dly	07	HRV	9A5EX	FSK8	125	1750	ALE, “9A5EX” - just for info!
DK2OM	7042,0	0350	09	07	RUS		PSK2	120	2600	AT3004D - Saratov
DK2OM	7045,0	1955	29	07	UKR		F1B	75	200	RUS Navy Sevastopol – dirty

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										signal
DK2OM	7049,5	vt	dly	07	F	F4BXW1	FSK8	125	1750	ALE, "F4BXW1" - just for info!
DK2OM	7054,0	vt	dly	07	RUS		F1B	50	200	RUS Navy - Moscow
DK2OM	7055,0	1515	08	07	CHN		FMCW		32k	Chinese Coastal Radar – 2.6 sps – 7055.0 – 7087.0 kHz
DK2OM	7060,0	1830	05	07	CHN		FMCW		32k	Chinese Coastal Radar – 2.6 sps – 7060.0 – 7092.0 kHz
DK2OM	7065,0	vt	dly	07	HRV	9A5EX	FSK8	125	1750	ALE, "9A5EX" - just for info!
DK2OM	7075,0	0915	07	07						frequency hopper
DK2OM	7079,0	1520	01	07	RUS		PSK2	120	2600	AT3004D – Far East Russia
DK2OM	7089,8	1832	26	07	TUR		PSK8	2400	2400	Link11 - SLEW – aircraft – Turkish coast – area of Anamur
DK2OM	7090,0	2020	07	07	CHN		FMCW		32k	Chinese Coastal Radar – 2.6 sps – 7090 – 7122 kHz
DK2OM	7099,5	vt	dly	07	HRV	9A0ZG	FSK8	125	1750	ALE, "9A0ZG" - just for info
DK2OM	7102,0	vt	dly	07	HRV	9A3COL	FSK8	125	1750	ALE, "9A3COL" – just for info!
DK2OM	7102,0	1603	01	07	SUI		FSK8	125	1750	ALE, "HB9MHB" – just for info!
DK2OM	7110,5	vt	dly	07	HRV	9A0ALE	FSK8	125	1750	ALE, amateur net, just for info!
DK2OM	7111,0	1601	12	07	RUS		F1B	75	250	Kaliningrad
DK2OM	7122,0	1922	13	07	RUS		F1B	75	250	Moscow
DK2OM	7132,0	2004	15	07	RUS		PSK2	120	2600	AT3004D - Voronezh
DK2OM	7140,0	0809	18	07	RUS		PSK2	120	2600	AT3004D – submode idle - Kaliningrad
DK2OM	7164,0	1049	11	07	RUS		PSK2	120	2600	AT3004D – area of Moscow
DK2OM	7166,0	1936	14	07	RUS		PSK2	120	2600	AT3004D – area of Moscow
DK2OM	7169,0	1438	12	07	RUS		PSK2	120	2600	AT3004D - Kaliningrad
DK2OM	7176,0	1935	23	07	RUS		F1B	75	250	Kaliningrad
DK2OM	7180,0	vt	dly	07	MRC	no ITU	FSK8	125	1750	ALE, "9201" "6350" "RC1"
DK2OM	7185,5	vt	dly	07	F	F4BXW	FSK8	125	1750	ALE, "F4BXW" - just for info!
DK2OM	7186,0	0250	09	07	RUS		PSK2	120	2600	AT3004D - Severomorsk
DK2OM	10106,0	vt	dly	07	ALG	no ITU	FSK8	125	1750	ALE, "OG100A" "OR200B" - Algerian MIL
DK2OM	10108,0	0724	08	07	RUS		F1B	50	200	area of Moscow
DK2OM	10110,0	vt	vd	07	SNG		FSK8	125	1750	ALE, "CN6" "68" – Singapore Navy - Changi Naval Base with frigate "RSS Formidable"
DK2OM	10112,0	ady	dly	07	TUR		PSK8	2400	2400	Stanag4285 – 600 bps long – TUR MIL - Izmir
DK2OM	10114,8	0618	02	07	RUS		F1B	100	1000	CIS14 – Penza - daily
DK2OM	10115,0	vt	dly	07		no ITU	FSK8	125	1750	ALE, "2001", "2011" "2005"
DK2OM	10118,0	0759	15	07	RUS		F1B	75	250	Moscow
DK2OM	10120,0	vt	dly	07		no ITU	FSK2	125	1750	ALE, "8001" "9067"
DK2OM	10120,0	1935	06	07	RUS		PSK2	120	2600	AT3004D – Kazan
DK2OM	10120,0	2130	06	07		no ITU	FSK8	125	1750	ALE-LSB, "5001"
DK2OM	10120,0	1053	03	07	CYP		FMCW		20k	OTH Radar Cyprus, 50 sps
DK2OM	10130,0	vt	dly	07	USA		F1B	50	850	USA - Maine
DK2OM	10130,0	vt	vd	07			FSK8	125	1750	Thales 3000
DK2OM	10130,0	1631	21	07		no ITU	FSK8	125	1750	ALE, "DL5" "084"
DK2OM	10134,0	vt	dly	07	ALG	no ITU	FSK8	125	1750	ALE, "CM4" "COF" - Algerian Airforce
DK2OM	10136,5	vt	dly	07	F	F4BXW	FSK8	125	1750	ALE, "F4BXW" - just for info!
DK2OM	10142,5	vt	dly	07	HRV	9A5EX	FSK8	125	1750	ALE, "9A5EX" – just for info!
DK2OM	10145,0	1430	16	07	RUS		PSK2	120	2600	AT3004D - Samara
DK2OM	10145,5	vt	dly	07	HRV	9A5EX	FSK8	125	1750	ALE, 9A5EX, just for info!
DK2OM	10145,5	1702	22	07	SUI		FSK8	125	1750	ALE, "HB9MHB" – just for info!
DK2OM	10146,0	vt	dly	07	ALG	no ITU	FSK8	125	1750	ALE, "ORG" "CM4" – ALG Airforce
DK2OM	10150,0	vt	dly	07		no ITU	FSK8	125	1750	ALE, "CFA" "CTA"
DK2OM	14000,0	1932	10	07	F		FMCW		20k	unid burst system – 6 sps bursts of 10.4 sec – every 15 min.
DK2OM	14000,0	1104	03	07						frequency hopper
DK2OM	14000,0	1530	21	07	E		USB			Spanish fishery
DK2OM	14000,0	0800	29	07	RUS		USB			Male persons in RUS voice
DK2OM	14001,5	1500	17	07	CLN		USB			Sinhala fishery
DK2OM	14002,0	1848	12	07	AF		USB			African pirate net, 180 deg. from DL
DK2OM	14008,0	1122	04	07	RUS		F1B	50	250	Moscow - also: 12.07.2012 at

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										1430 utc
DK2OM	14026,0	0655	27	07	RUS		PSK2	120	2600	AT3004D – Velikije Luki
DK2OM	14028,0	1021	17	07						frequency hopper
DK2OM	14030,0	0948	17	07			PSK4	120	2600	
DK2OM	14037,0	vt	dly	07	CHN	no ITU	FSK8	125	1750	ALE, “313” “132” “932”
DK2OM	14070,0	2146	03	07						frequency hopper
DK2OM	14075,0	ady	dly	07	IND		FMCW		50k	Codar like Radar 14075 - 14125, 2 sps, North-East India
DK2OM	14103,0	1951	04	07						frequency hopper
DK2OM	14104,0	vt	dly	07	CHN	no ITU	FSK8	125	1750	ALE, “A98” “L06”
DK2OM	14106,0	vt	dly	07		no ITU	FSK8	125	1750	ALE, “161”
DK2OM	14109,0	vt	dly	07	F	F4BXW	FSK8	1250	1750	ALE, “F4BXW” - just for info
DK2OM	14109,0	vt	dly	07	S	SM5RVH	FSK8	125	1750	ALE, “SM5RVH” – just for info!
DK2OM	14112,7	vt	dly	07	CHN		PSK8	2400	2400	bursts – MIL-188-110A variant
DK2OM	14116,0	1020	06	07	RUS		F1B	75	250	north of Kazan
DK2OM	14118,0	1435	12	07	RUS		PSK2	120	2600	AT3004D - Velikije Luki
DK2OM	14192,0	vt	dly	07	RUS		F1B	50	200 /500	RUS Navy Kaliningrad
DK2OM	14194,0	0832	12	07	CHN		FMCW		10k	Chinese OTH Radar, 66.67 sps, 3.8 sec bursts – audible in Europe, Japan and USA west-coast
DK2OM	14211,0	0300	09	07	CHN		USB			Chinese voice traffic together with OFDM39
DK2OM	14212,5	0300	09	07	CHN		OFDM			OFDM39 – Zhenghou - South-East China
DK2OM	14221,0	2057	01	07	KGZ		F1B	50	200	idling – Bishkek - Kyrgyzstan
DK2OM	14226,0	0840	12	07	CHN		FMCW		10k	Chinese OTH Radar, 83.33 sps, 3.0 sec bursts
DK2OM	14226,0	0858	19	07	CHN		FMCW		10k	OTH Radar China – 66.7 sps bursts of 1.9 sec length – SE China
DK2OM	14247,0	vt	dly	07	E	no ITU	FSK8	125	1750	ALE, “151” “250”
DK2OM	14250,0	2017	19	07	F		FMCW		20k	unid burst system – 6 sps bursts of 10.4 sec – every 15 min.
DK2OM	14257,9	1009	13	07	RUS		F1B	50	500	
DK2OM	14275,0	0903	19	07	CHN		FMCW		10k	OTH Radar China – 83.3 sps bursts of 1.9 sec length
DK2OM	14290,0	0647	02	07			FMCW			unid OTH Radar – 6 sps bursts – same as on 14000.0 and 7000.0 kHz
DK2OM	14292,0	0627	02	07	RUS		A1A			encrypted traffic – “KTDU” de “9JJ6” - airforce Moscow
DK2OM	14295,1	0829	18	07	TJK		A3E			3 rd from Radio Tajik on 4765 kHz
DK2OM	14298,0	1745	19	07	CHN		FMCW		10k	OTH Radar China – 66.7 sps bursts of 1.9 sec length
DK2OM	14303,0	0859	19	07	CHN		FMCW		10k	OTH Radar China – 66.7 sps bursts of 1.9 sec length
DK2OM	14304,0	0829	12	07	CHN		FMCW		10k	Chinese OTH Radar, 66.67 sps, 3.8 sec bursts
DK2OM	14307,0	1023	17	07						frequency hopper
DK2OM	14316,0	vt	dly	07	?	no ITU	FSK8	125	1750	ALE, “601” “611”
DK2OM	14325,1	vt	vd	07	FEa	no ITU	FSK8	125	1750	ALE, “776” “699” “475”
DK2OM	14331,0	vt	dly	07		no ITU	FSK8	125	1750	ALE, “417” “663”
DK2OM	14336,5	1534	01	07	RUS		PSK2	120	2600	AT3004D - Far East Russia
DK2OM	14340,0	1518	02	07	RUS		PSK2	120	2600	AT3004D – submode idle and traffic - Chabarovsk
DK2OM	14341,0	vt	dly	07	I	no ITU	FSK8	125	1750	ALE, “20” - area of Rome
DK2OM	14343,0	vt	dly	07	CHN	no ITU	FSK8	125	1750	ALE, “L06” “A98”
DK2OM	14346,0	ady	dly	07	SUI		FSK8	125	1750	ALE, “HB9MHB” – called by “NOCALSIGN” - just for info
DK2OM	14348,0	1500	19	07	CHN		FMCW		10k	OTH Radar China – 66.7 sps bursts of 1.9 sec length
DK2OM	14350,0	vt	27	07	TWN	no ITU	FSK8	125	1750	ALE-LSB, “ABJECT, AFFECT, APPLEF” – Taiwanese Navy
DK2OM	14350,0	1935	11	07	E		USB			Spanish fishery

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	18100,0	1500	08	07	?		USB			unid pirate net, weak
DK2OM	18100,0	1927	15	07	B		USB			Pirates in Portuguese voice, mentioning "Brazil"
DK2OM	20998,5	1945	08	07	CHL		USB			net in Spanish voice, spluttering up – phonepatch with "Maria" and "Lena" in Conception
DK2OM	21000,0	1730	01	07	F		FMCW		20k	unid burst system – 6 sps bursts – same as on 14000.0 and 7000.0 kHz – also: 13.07.12 at 0848 utc
DK2OM	21000,0	0858	11	07	RUS		USB			vocoder Yakhta – Nizhniy Tagil
DK2OM	21001,5	0856	11	07	RUS		F1B	100	150	vocoder Yakhta inband synchro – Nizhniy Tagil
DK2OM	21070,0	1118	15	07						frequency hopper
DK2OM	21089,5	vt	dly	07	HRV	9A5EX	FSK8	125	1750	ALE, "9A5EX" - just for info!
DK2OM	21096,0	vt	dly	07	POR	CT2GOY	FSK8	125	1750	ALE, "CT2GOY" – just for info
DK2OM	21096,0	vt	dly	07	INS	YD0OXH	FSK8	125	1750	ALE, "YD0OXH3" "YD0OXH7" – just for info!
DK2OM	21112,0	1825	26	07						frequency hopper
DK2OM	21116,0	vt	dly	07	HRV	9A0ST	FSK8	1250	1750	ALE, "9A0ST" "9A5EX" – just for info!
DK2OM	21130,0	0737	15	07	CYP		FMCW		20k	OTH Radar Cyprus, 50 sps
DK2OM	21136,0	1112	27	07						frequency hopper
DK2OM	21138,5	1303	27	07	OMA		PSK4	8 x 62.5	1750	Clover2000 – idling, daily, all day
DK2OM	21250,0	2048	19	07						frequency hopper
DK2OM	21252,0	0856	20	07						frequency hopper
DK2OM	21330,0	vt	dly	07	CAN		FSK8	125	1750	ALE, "VE3OUV" - just for info
DK2OM	21438,0	vt	dly	07	UKR	RCV	A1A			RIP90 de RCV - RUS Navy Sevastopol
DK2OM	25000,0	ady	dly	07	FIN		A3E			time signal Helsinki – just for info – carrier on 25000 – dots on 25001 and 24999
DK2OM	28000,0	vt	dly	07	B		A3E			28000 – 28325 B razilian CBers
DK2OM	28003,0	1821	01	07						frequency hopper
DK2OM	28005,0	1709	01	07	UKR		F3E			UKR taxi – daily, all day
DK2OM	28005,0	1935	03	07	E		A3E			Spanish CBers
DK2OM	28015,0	2012	03	07	B		A3E			Brazilian CBers
DK2OM	28022,0	1435	17	07	RUS		USB			vocoder Yakhta – USB - Moscow
DK2OM	28023,5	1435	17	07	RUS		F1B	100	150	vocoder Yakhta inband synchro – Moscow
DK2OM	28055,0	vt	dly	07	CIS		F3E			CIS taxi
DK2OM	28075,5	1500	17	07	RUS		F3E			RUS taxi, St. Peterburg
DK2OM	28085,0	1735	13	07	CIS		F3E			CIS taxi - daily
DK2OM	28085,0	1737	28	07	B		A3E			Brazilian CBers
DK2OM	28155,0	1508	13	07	E		A3E			Spanish CBers
DK2OM	28165,0	0800	02	07	I		F3E			Italian CBers
DK2OM	28179,7	vt	dly	07	ARG					bursts - similar to Packetradio
DK2OM	28195,0	1545	17	07	RUS		F3E			RUS taxi, Moscow
DK2OM	28200,0	1733	13	07	CIS		F3E			CIS taxi
DK2OM	28205,0	1830	17	07	F		F3E			2 truckdrivers west of Paris
DK2OM	28225,0	1738	28	07	B		A3E			Brazilian CBers
DK2OM	28235,0	1734	13	07	CIS		F3E			CIS taxi
DK2OM	28245,0	0720	28	07	CIS		F3E			CIS taxi
DK2OM	28250,2	vt	dly	07	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	1710	01	07	CIS		F3E			CIS taxi - daily
DK2OM	28265,0	1650	4	07	RUS		F3E			RUS taxi
DK2OM	28275,0	1739	28	07	B		A3E			Brazilian CBers
DK2OM	28346,1	vt	dly	07	GAB		A3E		1425	carrier and dots in USB and LSB, bursts every 60 sec – 28345.83 kHz carrier – Gabon – daily and all day
DK2OM	28356,0	1000	14	07	MEa		FMCW		44k	OTH Radar – 44 kHz wide – 185 and 307 sps – many spurious emissions +/- 45 kHz

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	28365,0	1731	13	07	CIS		F3E			CIS taxi
DK2OM	29684,0	1724	13	07						frequency hopper
DK2OM	29684,8	vt	vd	07	I		serial			serial modem, Italian MIL Brescia
DK2OM	29699,8	vt	vd	07	I		serial			serial modem, Italian MIL Brescia

IRTS – Ireland – EI5DD (Steve)

KARS – Kuwait – 9K2RR (Faisal)

MRASZ – Hungary - HA7PL (Laci)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
MRASZ	3560,0	1951	16	7		Ui	A3E			UiBC
MRASZ	7000,0	1901	20	7			A1A			„BR4Z de NGRH GB SK”
MRASZ	7008,0	2006	16	7		Ui	F1B		250	
MRASZ	7009,0	2008	16	7		Ui	A3E			russian language
MRASZ	7010,0	1958	11	7		Ui	A3E			russian language
MRASZ	7010,0	1745	12	7	RUS		J7D	120	2600	AT3004D
MRASZ	7010,0	1715	17	7	RUS		J7D	120	2600	AT3004D
MRASZ	7010,0	1749	20	7	RUS		J7D	120	2600	AT3004D
MRASZ	7010,0	1424	22	7	RUS		J7D	120	2600	AT3004D
MRASZ	7027,5	1957	9	7		Ui	A1A			slowly V V V string, as a beacon
MRASZ	7038,7	1945	11	7	UKR	D	A1A			beacon "D"
MRASZ	7038,7	1736	12	7	UKR	D	A1A			beacon "D"
MRASZ	7038,8	1745	20	7	RUS	P	A1A			beacon „P”
MRASZ	7038,8	1426	22	7	RUS	P	A1A			beacon „P”
MRASZ	7038,9	1945	11	7	RUS	S	A1A			beacon "S"
MRASZ	7038,9	1847	13	7	RUS	S	A1A			beacon "S"
MRASZ	7039,0	1735	16	7	RUS	C	A1A			beacon "C"
MRASZ	7039,2	1426	22	7	RUS	L	A1A			beacon „L”
MRASZ	7054,0	1935	4	7	RUS		F1B	50	200	
MRASZ	7054,0	1951	9	7	RUS		F1B	50	200	
MRASZ	7054,0	1944	11	7	RUS		F1B	50	200	
MRASZ	7091,0	1422	5	7		Ui	F1B		250	
MRASZ	7111,0	1742	12	7		Ui	F1B		250	
MRASZ	7122,0	1835	13	7		Ui	F1B		200	
MRASZ	7125,0	2034	16	7			A1A			rattling
MRASZ	7132,0	1713	17	7	RUS		J7D	120	2600	AT3004D
MRASZ	7132,0	1430	22	7	RUS		J7D	120	2600	AT3004D
MRASZ	7158,0	2035	16	7	RUS		LSB			music, drunk „RV0FK”?
MRASZ	7164,0	1712	17	7	RUS		J7D	120	2600	AT3004D
MRASZ	7164,0	1549	18	7	RUS		J7D	120	2600	AT3004D
MRASZ	7169,0	1836	13	7	RUS		J7D	120	2600	AT3004D
MRASZ	7169,0	1550	18	7	RUS		J7D	120	2600	AT3004D
MRASZ	7175,0	1618	4	7		UiBC	A3E			
MRASZ	7175,0	1744	12	7		UiBC	A3E			
MRASZ	7175,0	1801	15	7		UiBC	A3E			
MRASZ	7175,0	1729	16	7		UiBC	A3E			
MRASZ	7175,0	1750	20	7		UiBC	A3E			
MRASZ	7180,0	1629	4	7		Ui	A3E			UiBC
MRASZ	7180,0	1706	17	7		Ui	A3E			UiBC
MRASZ	14136,0	1754	20	7			USB			russian music
MRASZ	28085,0	0730	17	7	CIS		NBFM			Russian taxi

OEVSV – Austria – OE3GSA (Gerd)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
oevsv	7054	0545	24	07	RUS		F1B	50	200	RUs mil
oevsv	7054	0530	27	07	RUS		F1B	50	200	RUS mil
oevsv	7054	0515	30	07			F1B	50	200	
oevsv	7132	0535	26	07			PSK	120	2600	AR30004D verm.
oevsv	7185	0555	11	07			F1B			

PZK – Poland – SP3UZ (Wladyslaw)

REP – Portugal – CT4AN (Jose Francisco)

SOC	KHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REP	3521	01.14	10	07		ni	Pulse			1s
REP	3540	09.41	25	07	E		J3E-U			Fishermen
REP	3570	21.14	01	07	E		J3E-U			Fishermen
REP	3630	19.15	18	07		ni	J3E-U			
REP	7000	18.08	11	07		V	A1A			
REP	7015	22.22	29	07		ni	J3E-L			Arab lang
REP	7030	20.34	29	07	E		J3E-U			Fishermen
REP	7038,6	17.00	07	07	RUS	S	A1A			MURMANSK, ADY, DLY
REP	7038,7	20.12	02	07	UKR	D	A1A			SEVASTOPOL, ADY, DLY
REP	7038,7	23.30	18	07	UKR	D	A1A			SEVASTOPOL, ADY, DLY
REP	7038,7	23.19	18	07	UKR	D	A1A			SEVASTOPOL
REP	7039,0	22.11	22	07	RUS	C	A1A			MOSCOW, ADY, DLY
REP	7039,1	23.55	18	07	RUS	C	A1A			MOSCOW
REP	7039,1	22.40	22	07	RUS	A	A1A			VOLGOGRAD, ADY, DLY
REP	7039,1	22.58	22	07	RUS	A	A1A			VOLGOGRAD, ADY, DLY
REP	7105,0	22.23	13	07	CHN		8k00 A3EGN			Broadcasting
REP	10112	20.02	04	07			J3E-L			Malaysien fishery ?
REP	14010	07.39	26	07	E		J3E-U			Fishermen
REP	14105	07.06	26	07	E		J3E-U			Fishermen
REP	28065	11.10	27	07	RUS		F3E			Taxis
REP	28120	15.11	03	07	RUS		F3E			Taxis
REP	28155	15.33	03	07	RUS		F3E			Taxis
REP	28270	13.15	24	07	HRV	?	F3E			Taxis
REP	28375	12.58	24	07	RUS		F3E			Taxis

RSGB - Great Britain – G4BOH (Chris)

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	REMARKS
RSGB	14295	24H	DLY	07	TJK	Radio Tajik.	A3E	Baldock sent service message. No response so Appendix 10 notice sent. Ops. Room to continue to try to contact appropriate authority.

SRAL – Finland – OH2BLU (Pekka)

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
SRAL	6999,0	1615	17	7		UiMUX	J7D	12x120	12x200	Pilot on 7000.3 kHz
SRAL	7006,5	1015-1050	2	7		UiPTR	F1B		250	
SRAL	7008,0	0345-1810	*	7		UiPTR	F1B		200/250	Days: 10. 11. 17. 31.
SRAL	7010,0	0245-1930	*	7	RUS	UiMUX	J7D	12x120	12x200	Days: 4. 5. 9. 12. 13. 17. 22. 26. 27.
SRAL	7016,0	1305-1435	8. 31.	7		UiPTR	F1B		250	
SRAL	7018,0	0130-0210	10	7		UiMUX	J7D	12x120	12x200	
SRAL	7018,6	0200-1820	8. 9.	7		UiCarr	N0N			
SRAL	7022,0	1155-1615	9. 25.	7		UiMUX	J7D	12x120	12x200	
SRAL	7027,5	1420-1540	10. 25.	7		UiMUX	J7D	12x120	12x200	
SRAL	7032,0	0445-1830	*	7	RUS	UiMUX	J7D	12x120	12x200	Days: 5. 14. 28.
SRAL	7034,0	1115-	*	7	RUS	UiPTR	F1B		250	Days: 20. 27. 28. 31.

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
		1615								
SRAL	7038,7	h24	dly	7	UKR	D	A1A			Sevastopol
SRAL	7038,8	1500-1930	20-23	7	RUS	P	A1A			Kaliningrad
SRAL	7038,9	h24	dly	7	RUS	S	A1A			Severomorsk
SRAL	7039,0	h24	dly	7	RUS	C	A1A			Moscow
SRAL	7039,2	h24	*	7	RUS	L	A1A			St Peterburg, days: 1. 7. 20. - 31.
SRAL	7054,0	1700-0700	dly	7	RUS	REA4	F1B		200	Moscow
SRAL	7058,0	0800-1245	8	7		UiPTR	F1B			
SRAL	7058,0	1520-1530	16	7	RUS	AGBW	A1A			procedures
SRAL	7062,0	1400-1430	10	7		UiMUX	J7D	12x120	12x200	
SRAL	7068,0	1300-1325	18	7		UiMUX	J7D	12x120	12x200	
SRAL	7070,5	0925	7	7		UiPTR	F1B			
SRAL	7072,0	1000-1100	9	7		UiMUX	J7D	12x120	12x200	
SRAL	7076,0	0530	31	7		UiPTR	F1B		250	
SRAL	7082,0	0945	3	7		UiMUX	J7D	12x120	12x200	
SRAL	7088,5	0535-0705	21	7		UiPTR	F1B		250	
SRAL	7090,0	1840-1910	10	7		UiMUX	J7D	12x120	12x200	
SRAL	7091,5	0900-1500	*	7		UiPTR	F1B		200/250	Days: 2. 5. 6. 11. 17. 23. 27. 30.
SRAL	7098,0	1000-1200	28	7		UiPTR	F1B		250	
SRAL	7111,0	0245-1930	11 – 14	7		UiPTR	F1B		250	
SRAL	7122,0	0300-1930	*	7	RUS	UiPTR	F1B		200/250	Days: 5. 7. 13. 14. 25. 30. 31.
SRAL	7162,0	0650-1450	14 – 28	7		UiPTR	F1B		250	
SRAL	7164,0	0445-2400	*	7	RUS	UiMUX	J7D	12x120	12x200	
SRAL	7166,0	0835-1915	14	7	RUS	UiMUX	J7D	12x120	12x200	
SRAL	7169,0	0645-1920	12 – 13	7	RUS	UiMUX	J7D	12x120	12x200	
SRAL	7169,0	1200-1315	9	7		UiPTR	F1B		200	
SRAL	7175,0	0245-0500	dly	7	ERI	VoBME 2	A3E			jammed by ETH, QSY 7165 – 7190 kHz
SRAL	7175,0	1415-1800	dly	7	ERI	VoBME 2	A3E			QSY 7165 – 7190 kHz, jammed by ETH until 1700,
SRAL	7176,0	0735-0910	23	7	RUS	UiPTR	F1B		250	
SRAL	7179,0	0455	20	7		A1FP	A1A			procedures
SRAL	7181,0	0330-1845	23	7		UiMUX	J7D	12x120	12x200	
SRAL	7184,0	0245-1930	*	7		UiPTR	F1B		200/500	Days: 9. 13. 14. 25. 30. 31.
SRAL	7186,0	0400-1930	*	7	RUS	UiMUX	J7D	12x120	12x200	Days: 9. 10. 11. 21.
SRAL	7200,0	1415-1930	dly	7	SDN	R Sudan	A3E			
SRAL	7200,0	1515-1840	*	7	ERI	VoBME 1	A3E			Days: 17. 23. 24. 25.
SRAL	14008,0	0700-1305	*	7		UiPTR	F1B		250	Days: 12. 22. 26.
SRAL	14026,0	0925-1415	25, 27	7	RUS	UiMUX	J7D	12x120	12x200	
SRAL	14108,0	0535-	*	7		XC50,	A1A			Days: 12. 16. 17. 21. 27.

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
		1115				GOFX				
SRAL	14118,0	0620-1700	12 – 14	7	RUS	UiMUX	J7D	12x120	12x200	
SRAL	14192,0	0430-1900	dly	7		UiPTR	F1B		200/500	
SRAL	14292,0	0600-1420	*	7		NYTE	A1A			Days: 12. 13. 17. 20. 28. 29.
SRAL	14295,1	h24	dly	7	TJK	R Tojikiston	A3E			3f 4765,05 kHz, Yangiyul TX
SRAL	21030,0	0920-0942/	14	7		UiOTHR	FMCW			
SRAL	21210,0	1055	7	7		UiOTHR	FMCW			
SRAL	28 MHz	0825-1430	*	7	CIS	UiVOX	F3E			70 reports, days: 1. 7. 27. 28.

USKA – Switzerland – HB9CET (Peter)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	7000.0	2154	23	07			J3E-U			unid language; roger beep's
USKA	7000.0	2204	23	07			J3E-U			DTMF tones followed by phone-like conversation
USKA	7000.0	0705	24	07					20k	10s bursts, similar like a CODAR signal, spacing 100Hz
USKA	7000.0	0717	26	07			N0N			long lasting carrier
USKA	7000.0	0721	26	07			FMCW		~10k	2 slowly sweeping carriers, sweeprate approx 6s
USKA	7001.8	1608	05	07			PSK-8	2400	2k6	
USKA	7008.0	2147	16	07			F1B	75	250	often
USKA	7010.0	1119	09	07			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D often
USKA	7011.5	0716	26	07			PSK2A	1850	1850	Burst system
USKA	7038.7	2111	17	07	UKR	D	A1A			Beacon D Sevastopol daily
USKA	7038.9	2153	04	07	RUS	S	A1A			Beacon S Murmansk daily
USKA	7039.0	2112	17	07	RUS	C	A1A			Beacon C Moscow daily
USKA	7039.2	2047	09	07	RUS	F	A1A			Beacon F Vladivostok daily
USKA	7039.2	2100	24	07		L	A1			Beacon L ?
USKA	7039.4	2048	09	07	RUS	M	A1A			Beacon M Magadan daily
USKA	7045.0	1706	29	07			F1B	75	250	
USKA	7053.9	1703	05	07			A1			illegal, unwanted jammer
USKA	7054.0	1703	05	07			F1B	50	200	daily
USKA	7089.8	2214	25	07			PSK-8			Link11 SLEW (MIL-STD-6011)
USKA	7089.8	0636	27	07			PSK-8			Link11 SLEW
USKA	7091.5	1422	19	07			F1		250	2 ton shifting
USKA	7091.625	1429	19	07			N0N			
USKA	7105.0	2153	09	07		TWN	A3E			BC (2 stations) daily
USKA	7105.0	2153	09	07		CHN	A3E			BC (2 stations) daily
USKA	7122.0	2301	30	07			F1B	75	250	
USKA	7125.0	1001	17	07			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D
USKA	7132.0	2106	17	07			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D often
USKA	7140.0	0852	18	07			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D
USKA	7164.0	0946	11	07			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D often
USKA	7175.0	1059	06	07			F1B	75	250	
USKA	7176.0	2151	23	07			F1B	75	250	
USKA	7180.0	1709	29	07			A3E			unid language
USKA	7200.0	2056	09	07			A3E			BC, splattering down ~5 KHz
USKA	14008.0	0743	04	07			F1B	50	250	CIS36-50 often
USKA	14026.0	1041	27	07			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D
USKA	14050.0	1014	25	07			F1B	75	250	
USKA	14116.0	1054	06	07			F1B	100	250	
USKA	14118.0	1005	13	07			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D
USKA	14192.0	0753	04	07			F1B	50	500	often
USKA	14192.0	0820	17	07			F1B	50	200	often
USKA	14256.8	0757	04	07			OFDM60	35.5	~ 2k7	44.4Hz spacing Pilot at 3300 Hz
USKA	14340.0	0931	25	07			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D
USKA	14344.7	2231	23	07			PSK-8	2400	2k4	MIL 188-110A Hybrid mod. Burst interval 6.8s, duration 2.6s
USKA	14350.0	0823	17	07			N0N			long lasting carrier

Veron 1 – Netherlands – PA2GRU (Dick)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SHIFT	DETAILS
VERON	3608,0	19.41	4	7		UiPTR	F1B		Revs
VERON	7039,1	12.15	23	7	RUS	L	A1A		L-beacon
VERON	7039,1	17.29	30	7	RUS	L	A1A		L-beacon
VERON	7054,0	vt	vd	7	CIS	UiPTR	F1B		Revs/Ptr
VERON	7122,0	17.27	30	7		UiPTR	F1B		Ptr
VERON	10118,0	19.38	4	7		UiPTR	F1B		Ptr
VERON	10130,0	09.20	11	7		UiPTR	F1B		Ptr
VERON	14008,0	vt	vd	7	CIS	UiPTR	F1B		Carrier/Revs/Ptr
VERON	14011,0	08.18	24	7	CIS	GGY7	A1A		ZRI ZDY ZPF ZVT ZYH QYT6 (to: C4KA)
VERON	14011,0	08.36	24	7	CIS	GGY7	A1A		QJG QYT9 (to: V8A3)
VERON	14108,0	09.23	11	7	CIS	QGAS	A1A		5BL endin 583 k (to: 9BT3)
VERON	14108,0	09.39	11	7	CIS	XCSO	A1A		Calls (to: 9BT3 LOKT 8XMZ 9DKM PCBC)
VERON	14108,0	08.57	12	7	CIS	XCSO	A1A		PPPPP 5BL (to: 2OTL)
VERON	14108,0	08.39	24	7	CIS	GDFX	A1A		5BL ending 514 rpt al K
VERON	14108,0	09.50	25	7	CIS	GDFX	A1A		Calls (to: WDIF 8BGQ 1AME WNF5 HPLD)
VERON	14108,0	08.22	26	7	CIS	WEGI	A1A		XXX WEGI 51960 TETRADEKAN
VERON	14108,0	08.22	26	7					0353 1647 METIN 1542 8094 K
VERON	14192,0	vt	vd	7		UiPTR	F1B		Revs/Ptr
VERON	14192,0	10.00	1	7	?	UiPtr	F1B	500	revs, ptr
VERON	7005,0	16.24	1	7	RUS	RGT77	A1A		RGT77 150 = (5BL) = K
VERON	14110,0	08.02	2	7	?	UiPtr	F1B	250	ptr
VERON	14108,0	08.06	2	7	RUS	A3KS	A1A		W1AU DE A3KS 613 192 2 0904 613 = 593 = (5BL)
VERON	14192,0	08.30	2	7	?	UiPtr	F1B	500	ptr, revs
VERON	14108,0	08.34	2	7	RUS	?	A1A		QYT9 K
VERON	14108,0	09.05	2	7	RUS	DQCI	A1A		to: 9PDK, N4T5, DUKW, 1QT1, 8MQS, QDTW, K5ZV: calls, proc.
VERON	14108,0	09.20	2	7	RUS	GTIP	A1A		to N4T5: QBE QYT9 K
VERON	14108,00	05.52	4	7	RUS	DQCI	A1A		8UQS DE DQCI ZWO ZTO ZTB QRR3 K
VERON	14192,0	08.39	4	7	?	UiPtr	F1B	500	revs
VERON	14108,0	07.21	5	7	RUS	DQCI	A1A		9PDK DE DQCI ZFN ZQP ZDV QYT9 K
VERON	14108,0	07.58	5	7	RUS	GTIP	A1A		to 9PDK: proc
VERON	14108,0	10.29	5	7	RUS	8UXM	A1A		DUKW DE 8UXM QBE QYT9 K, proc
VERON	14108,0	10.33	5	7	RUS	8UXM	A1A		1QTK DE 8UXM ZWL ZWZ ZGL QYT6 K
VERON	7005,0	19.44	5	7	RUS	RGT77	A1A		RGT77 194 = (5BL) = K
VERON	14108,0	06.29	6	7	RUS	DQCI	A1A		1QTK DE DQCI ZWO ZTM ZPV QYT6 K
VERON	7005,0	17.09	6	7	RUS	RGT77	A1A		RGT77 716 = (5BL) = K
VERON	14192,0	17.18	6	7	?	UiPtr	F1B	500	revs
VERON	14108,0	05.22	7	7	RUS	?	A1A		(5BL). Ends: 423 K
VERON	14192,0	14.00	7	7	?	UiPtr	F1B	500	revs
VERON	14192,0	10.04	8	7	?	UiPtr	F1B	500	revs
VERON	14108,0	10.08	8	7	RUS	DQCI	A1A		to: 1QTK, 8UQS, QDTW, K52V: proc
VERON	14108,0	08.18	9	7	RUS	WEGI	A1A		XXX WEGI 12334 BIR4IJ 2064 9835 K
VERON	14108,0	08.50	9	7	RUS	WLHN	A1A		XXX WLHN 449 1002596 79734 BR4KANEC
									4093 8238 ÉREMURUS 8311 2383 ROGOZ
									2271 8345
VERON	14192,0	09.19	9	7	?	UiPtr	F1B	200	revs
VERON	7005,0	17.09	10	7	RUS	RGT77	A1A		RGT77 733 = (5BL) = K
VERON	14192,0	10.35	12	7	?	UiPtr	F1B	500	ptr, revs

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SHIFT	DETAILS
VERON	14192,0	10.00	19	7	?	UiPtr	F1B	200	revs, ptr
VERON	14108,0	10.20	19	7	RUS	WEGI	A1A		XXX WEGI 26413 DIBROMETAN 0526 1522 (repeat + K)
VERON	14108,0	10.55	19	7	RUS	XCSO	A1A		2OTL DE XCSO QTC K / (5BL)
VERON	7005,0	17.09	20	7	RUS	RGT77	A1A		RGT77 526 = (5BL) = K
VERON	14108,0	07.24	21	7	RUS	GDFX	A1A		to WDIF, 8BGQ, 1AME, WNF5, HPLD, PS7S, NILF: proc
VERON	7166,0	20.33	22	7	?	?	A1A		= 99? 0035 ?9?????
VERON	7166,0	20.35	22	7	?	?	A1A		= 99? 0037 ?9?????
VERON	7166,0	20.37	22	7	?	?	A1A		= 99? 0039 ?9?????
VERON	7166,0	20.39	22	7	?	?	A1A		= 99? 0041 ?9?????
									[once per 2 minutes new transmission]
VERON	14108,0	05.25	23	7	RUS	GDFX	A1A		to: WDIF, 8BGQ, 1AME, WNF5, HPLD,
VERON	7039,3	19.50	23	7	RUS	L	A1A		L-beacon (broad distorted signal)
VERON	7176,0	20.14	23	7	?	UiPtr	F1B	250	ptr
VERON	14108,0	08.14	25	7	RUS	FNQU	A1A		to 8BGQ: FNQU 557 22 25 1106 557 = 683 = (5BL) 492 K / proc
VERON	14108,0	05.42	27	7	RUS	Y1CQ	A1A		Y1CQ QTA QLX K (many times)
VERON	14108,0	05.48	27	7	RUS	GDFX	A1A		to WDIF, 8BGQ, 1AME, WNF5, HPLD, PS7S, NILF: proc
VERON	7005,0	18.44	27	7	RUS	RGT77	A1A		RGT77 417 = (5BL) = K
VERON	14108,0	08.26	28	7	RUS	GDFX	A1A		to: HPLD, PS7S, NILF: proc
VERON	7005,0	17.09	28	7	RUS	RGT77	A1A		RGT77 573 = (5BL) = K
VERON	14192,0	13.30	30	7	?	UiPtr	F1B	200	ptr, revs
VERON	14108,0	07.49	31	7	RUS	GDFX	A1A		to: HPLD, WDIF, 8BGQ, 1AME, WNF5, PS7S, NILF: proc
VERON	14192,0	09.50	31	7	?	UiPtr	F1B	200	revs
VERON	7005,0	16.45	31	7	RUS	RGT77	A1A		RGT77 482 = (5BL) = K
VERON	7005,0	17.44	31	7	RUS	RGT77	A1A		RGT77 864 = (5BL) = K
VERON	7038,7	22.45	8	7	UKR	D	A1A		Beacon Sevastopol
VERON	7038,9	vt	vd	7	RUS	S	A1A		Beacon Murmansk
VERON	7039,2	23.26	28	7	RUS	L	A1A		Beacon St.Petersburg; bad mod; 100Hz hum
VERON	7039,5	17.44	1	7	CZE	OK0EPB	A1A		Beacon; for info
VERON	7054,0	vt	vd	7	RUS	UiPtr	F1B	200	Printer; bad signal
VERON	7056,5	11.27	1	7		UiMux	PSK8	2k4	
VERON	7056,5	20.23	7	7		UiMux	PSK8	2k4	
VERON	7065,0	21.48	7	7		Ui	J3E-1		Modulated with music; no ham call heard
VERON	7193,0	21.43	7	7					Frequency hopper
VERON	14192,0	vt	vd	7	RUS	UiPtr	F1B	500	Printer
VERON	14221,0	22.45	7	7	KGZ	UiPtr	F1B	200	Printer idling
VERON	14322,0	09.56	8	7		UiRadar	FMCW	5k	1 burst/sec; CODAR-like
VERON	18069,0	20.22	8	7		UiOTHR	FMCW	24k	50sps
VERON	18130,0	16.49	8	7					Frequency hopper
VERON	21287,0	17.31	28	7					Frequency hopper
VERON	14008,0	08.16	1	7		UiPtr	F1B	250	Ptr
VERON	14160,0	09.27	5	7		UiPtr	F1A	250	QRJ? K 3x times
VERON	14292,0	09.24	17	7		UicW	A1A		5F
VERON	21308,0	09.24	8	7		UiOTHR	FMCW		50pps

The monitoring team of IARU Region 1

Many thanks for your interest!

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BAZ – Special Antennas – Bad Bergzabern - Germany

FTS – Funktechnik Seipelt – Hoppegarten - Germany

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