



Monitoring System

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The monthly newsletter for Region 1

January 2013

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

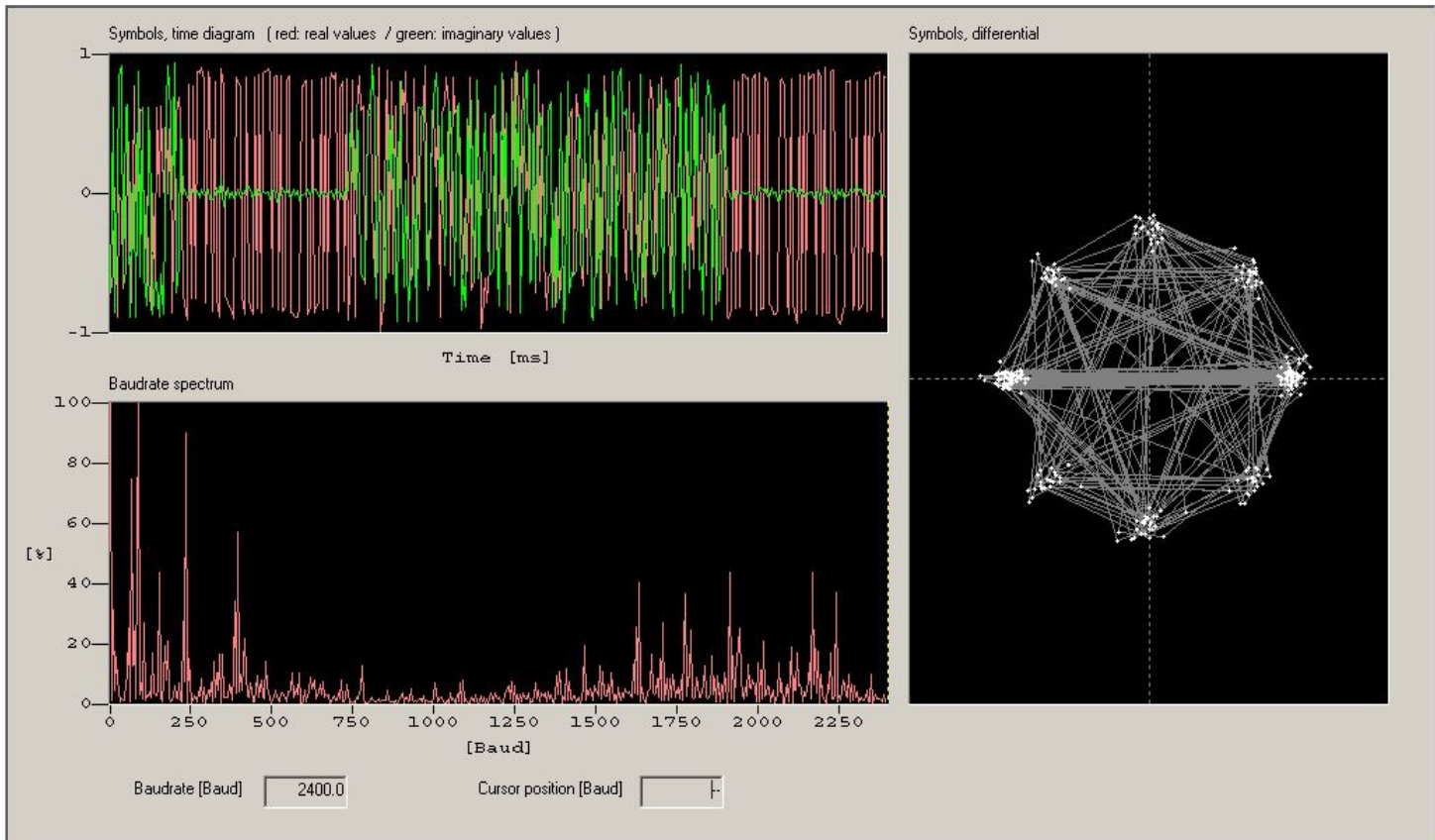
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Part 1: News and Infos

1. Stanag on 14 MHz

HB9CET found a Stanag 4285 on 14118.5 kHz on Jan. 21st. The signal went off on Jan. 22nd. Many thanks to HB9CET and G4BOH for observations and help.

Stanag 4285 analysed by the Wavecom Classifier. parameters: PSK8, 2400 Bd, 2400 Hz shift

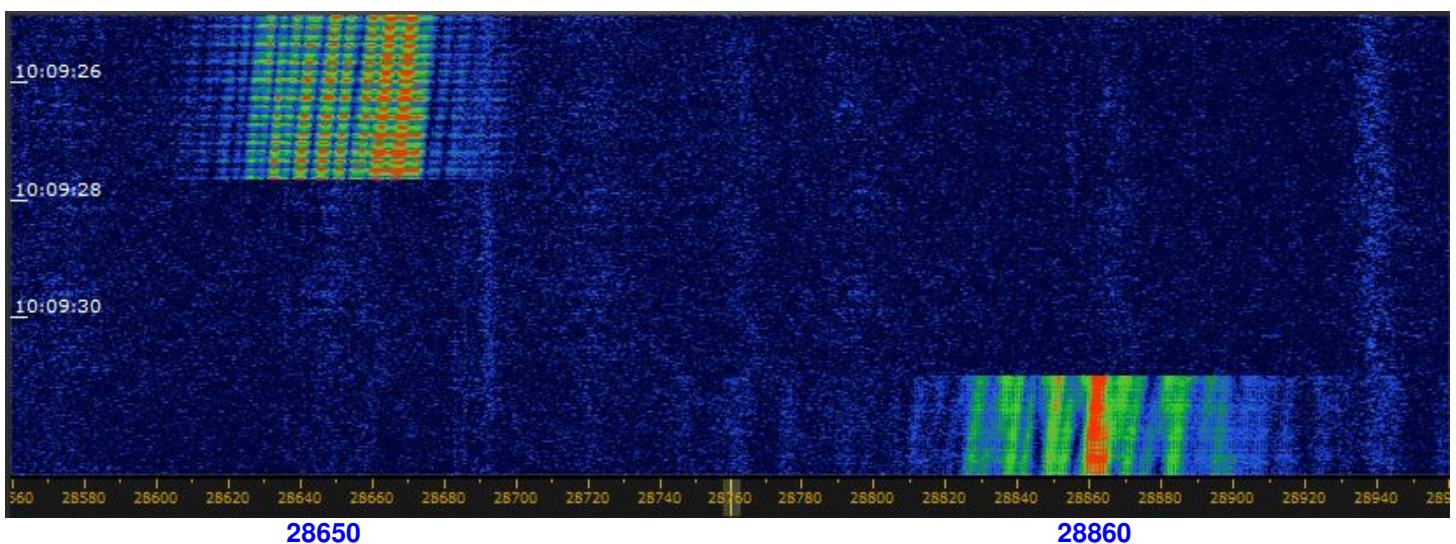


2. CIS taxi business on 28 MHz worse as ever before

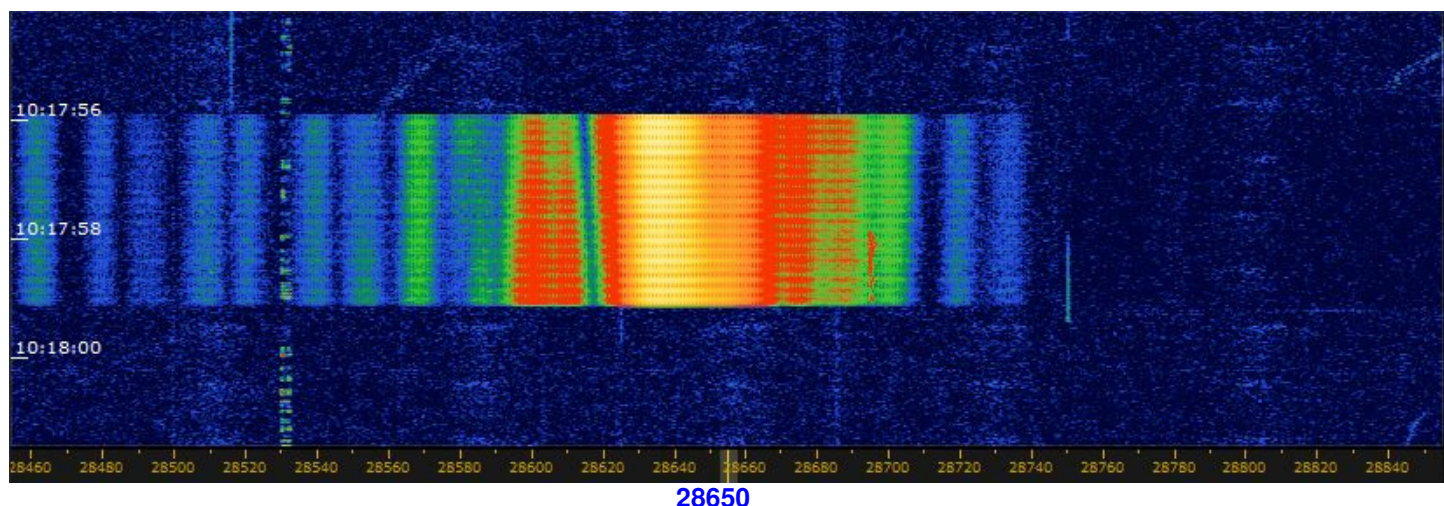
The taxi business was going on daily, all day. Most of them are located in Russia as we found out by bearings. Moscow taxis were transmitting on 28115, 28275 and 29675 kHz in FM. The Russian society was informed. Other taxis were located in Ukraine and Kazakhstan. The Russian taxi net on 21404.2 kHz was not heard again.

3. Mysterious OTH radar on 28 MHz

A mysterious OTH disturbed 28 – 29 MHz again, often daily. The signals were 60 kHz wide, and the jumping bursts were transmitted with 307, 470 and 870 sps. The location seemed to be Middle East. Bearings were difficult. The Perseus screenshot shows the jumping system.



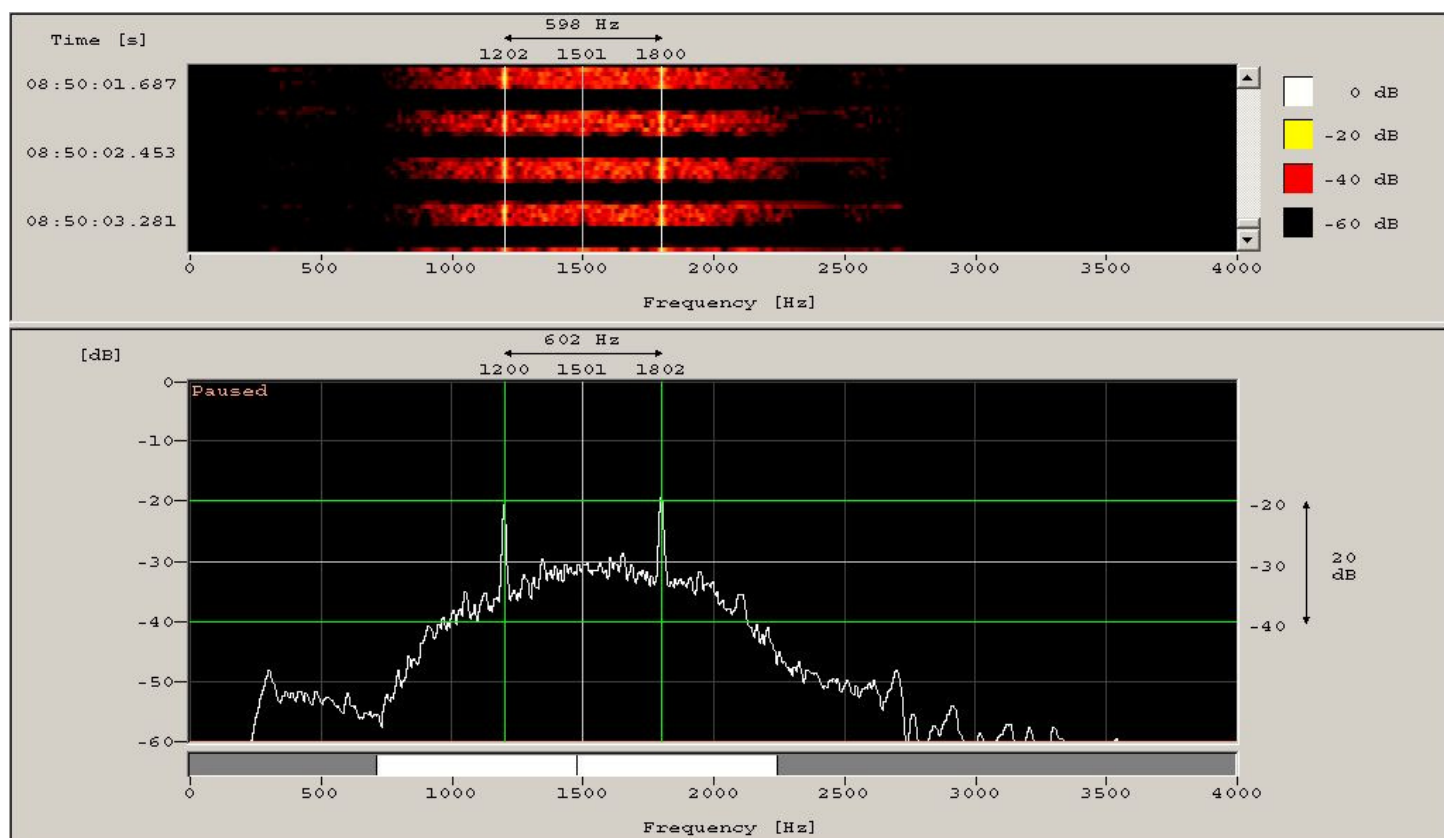
The same system with a higher resolution. You can see the terrible splatters – sometimes 300 kHz wide.



4. North-Korean Diplo traffic

North-Korean diplo traffic was still active on 14 and 21 MHz. They were using the ARQ system DPRK-FSK 600 with 600 Bd and 600 Hz shift. **(screenshot below)** Sometimes they use DPRK-FSK 1200 with 1200 Bd and 1200 Hz shift. DPRK = Democratic People's Republic of Korea

DPRK-FSK 600 analysed by Wavecom W61PC



5. Intermodulation from Radio Romania on 14060 kHz

DJ9KR and HB9CET found intermodulation products from Radio Romania on 14060 kHz produced by transmissions on 17780 and 21500 kHz, every Sunday from 1000 – 1100 utc.

$2 \times 17780 = 35560$ kHz $36660 - 21500 = 14060$ kHz The Swiss BAKOM and the German BNetzA were informed and sent official complaints. Many thanks to DJ9KR, DF5SX and HB9CET for assistance!

6. Homepage IARU Region 1

Homepage IARUMS Region 1

Homepage IARUMS Region 2

Homepage IARUMS Region 3

Intruderlogger Region 1

<http://www.iaru-r1.org/>

<http://www.iarums-r1.org>

<http://www.iaru-r2.org/>

<http://www.iaru-r3.org/ms/>

<http://peditio.net/intruder/bluechat.cgi>

Part 2: Detailed reports of the national Co-ordinators

DD = day *** MM = month *** dly = daily *** vt = various times *** vd = various days *** BD = Baud *** SH = shift *** SP = spacing *** Mode = mode of transmission *** A3E = AM *** A1A = CW *** J3E-U = USB *** J3E-L = LSB *** FSK (F1B) = frequency shift keying *** PSK = phase shift keying *** OFDM = 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 January 2013

The broadcasts from Radio Hargeisha on 7120 kHz., Khartoum on 7200 kHz, Addis Ababa and Asmara (Eritrea) on other 40 meter frequencies between 7100 and 7200 kHz continued as usual. Monitoring was limited due to frequent power cuts and thunder storms.

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	7085.0	0740	25	1	BRD?	UiPHONE	J3Eu	Kiswahili
ARSK	7120.0	vt	dly	1	SOM	Hargeisha	A3E	Radio Hargeiasha
ARSK	7175.0	vt	dly	1	ERI?	UiBC	A3E	VoBM, Eritrea?
ARSK	7185.0	vt	dly	1	ERI? ETH?	UiBC	A3E	VOBM or Addis Ababa.
ARSK	7200.0	vt	dly	1	SDN	Khartoum	A3E	Broadcast, Khartoum.

DARC 1 – Germany – DJ9KR (Uli) Illicit and broadcast intruders

CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	BD	SH	Remarks and Comments
DARC	7000,0	1637	17	01	CIS	UiILL	J3E-L			2 male persons in plain Italian language, their lingo is that of a radio amateur or CB-er
DARC	7018,0	1535	13	01	RUS	Air Force Moscow	F1B	150	1000	ident "REA4", fast reversals heard 13, 17, 19 at 1535-1807
DARC	7025,0	2140	05	01	RUS	UiPTR	F1B			fast reversals, is Severomorsk
DARC	7038,7	vt	vd	01	UKR	beacon D	A1A			beacon D, Sevastopol
DARC	7038,9	vt	vd	01	RUS	beacon S	A1A			beacon "S" - Severomorsk
DARC	7039,0	vt	vd	01	RUS	beacon P	A1A			beacon "P", Kaliningrad
DARC	7039,0	vt	vd	01	RUS	beacon C	A1A			beacon "C" - Moscow heard 0700, 1800, 1900
DARC	7039,1	vt	vd	01	KGZ	beacon A	A1A			beacon "A" - Bishkek
DARC	7039,1	vt	vd	01	KGZ	beacon A	A1A			beacon "A" - Bishkek
DARC	7039,2	vt	vd	01	RUS	beacon L	A1A			beacon "L" - St. Petersburg
DARC	7039,2	vt	vd	01	RUS	beacon F	A1A			beacon "F" - Vladivostok
DARC	7039,4	vt	vd	01	RUS	beacon K	A1A			beacon "K" - Petropavlovsk
DARC	7039,4	0918	28	01	CZE	OK0EPB	A1A			"Z0 UTC 0918 OK0EPB" - S9+20dB signal - "synchronized

CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	BD	SH	Remarks and Comments
										pendulum" - URL: OK0EPB.NAGANO.CZ
DARC	7039,5	vt	vd	01	RUS	beacon M	A1A			beacon "M" - Magadan
DARC	7039,6	0918	28	01	I	IZ3DVW/ BEACON	A1A			"IZ3DVW / BEACON" - S9+10dB signal
DARC	7105,0	1922	25	01	TUN	R.Tunisia	A3E			spurious 7225 x 7345 kHz, Ar px knitting pattern: 7225 x 2 - 7345 = 7105
DARC	7105,0	1600	29	01	TUN	R.Tunisia	A3E			s/on px , is IM of 7225 and 7345
DARC	7105,0	2222	20	01	TWN	Sound of Hope	A3E			Chinese px, spoken news, under jammer
DARC	7105,0	2222	20	01	CHN	Soh Xi Wang Zhi Sheng	JAM			Chinese px in order to wipe out Sound-of- Hope
DARC	7105,0	2200	16	01	TWN	Sound of Hope	A3E			Chinese px
DARC	7105,0	2205	12	01	TWN	Sound of Hope	A3E			Chinese px
DARC	7105,0	2205	12	01	CHN	Soh Xi Wang Zhi Sheng	A3E			Chinese px
DARC	7105,0	2227	19	01	TWN	Sound of Hope	A3E			Chinese px
DARC	7105,0	2158	16	01	CHN	Soh Xi Wang Zhi Sheng	A3E			carrier, then Chinese px s/on at 2200, 20 kHz spread
DARC	7105,0	2141	25	01	TWN	Sound of Hope	N0N			carrier, then Chinese px s/on at 2200
DARC	7105,0	1919	29	01	TUN	R.Tunisia	A3E			Ar music, fundamentals found 7225 and 7345
DARC	7110,0	vt	06	01	BRM	R.Myanmar	A3E			typical music S9+10dB
DARC	7110,0	vt	dly	01	BRM	R.Myanmar	A3E			sked: 0030-0130, 1030- 1500, 2330-0030
DARC	7120,0	1525	03	01	SOM	R.Hargaysa	A3E			typical px
DARC	7120,0	1536	15	01	SOM	R.Hargaysa	A3E			typical HOA music
DARC	7120,0	0330	dly	01	SOM	R.Hargaysa	A3E			s/on px at 0330 with Holy Quran recitals, also 1500 - 1900 - 20 reports all month
DARC	7120,0	0635	30	01	SOM	R.Hargaysa	A3E			weak signal, fading out
DARC	7156,0	2025	17	01	CHN	UiOTH	FMCW			burst radar, 47,6 sps - DK2OM
DARC	7170,0	1536	15	01	ETH	ETH Govt Jam	JAM			white noise jammer
DARC	7170,0	1536	15	01	ERI	VoBME	A3E			under heavy white noise jammer
DARC	7175,0	1433	17	01	ETH	ETH Govt Jam	JAM			white noise jammer
DARC	7175,0	1433	17	01	ERI	VoBME	A3E			under heavy white noise jammer
DARC	7175,0	1525	03	01	ERI	VoBME	A3E			under heavy white noise jammer
DARC	7180,0	1623	10	01	ETH	ETH Govt Jam	JAM			white noise jammer
DARC	7180,0	1623	10	01	ERI	VoBME	A3E			under heavy white noise jammer
DARC	7180,0	1447	15	01	ERI	VoBME	A3E			has escaped of jammer on 7175
DARC	7185,0	0655	15	01	ETH	ETH Govt Jam	JAM			white noise jammer
DARC	7185,0	0655	15	01	ERI	VoBME	A3E			is active, audible under white noise jammer
DARC	7189,9	0325	dly	01	CLN	SLBC Sri Lanka	A3E			typical music, tx-er location is Ekala
DARC	7190,0	1657	29	01	ETH	ETH Govt Jam	JAM			white noise jammer, no BC audible

CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	BD	SH	Remarks and Comments
DARC	7190,0	1600	29	01	ETH	ETH Govt Jam	JAM			white noise jammer starting
DARC	7190,0	1520	26	01	ERI	VoBME	A3E			under heavy white noise jammer
DARC	7190,0	1657	25	01	ERI	Sound of Hope	A3E			typical music, under wn-jammer
DARC	7190,0	1743	28	01	ERI	VoBME	A3E			HOA music
DARC	7200,0	vt	dly	01	SDN	R.Omdurman	A3E			typical music heard 0328, 1500 - 1930
DARC	7200,0	1525	03	01	SDN	R.Omdurman	A3E			HOA music
DARC	7200,0	1540	14	01	SDN	R.Omdurman	A3E			Arabic px, S9+20dB
DARC	7200,0	1904	28	01	SDN	R.Omdurman	A3E			Ar px and mx
DARC	10130,0	1941	13	01	MRC	UiILL	J3E-U			Moroccan fishery - DK2OM
DARC	14036,0	ady	dly	01	RUS	Airforce Moscow	F1B	150	2000	is harmonic of 7018, RUS Airforce Moscow - DK2OM
DARC	14050,0	1454	16	01	F.Ea	UiILL	J3E-U			Far East pirates, poss. Indonesia
DARC	14050,0	2008	08	01	F.Ea	UiILL	J3E-U			Far East pirates - report DK2OM
DARC	14060,0	vt	30	12	ROU	R.Bucharest	A3E			slightly distorted signal, heard by DJ9KR from 1054 - 1058 s/off with jingle, is IM 17780 x 21500 - knitting pattern: $2 \times 17780 - 21500 = 14060$ - txer sked 0800-1056 - tx-er location Tiganesti - tnx DF5SX for help!
DARC	14060,0	vt	27	01	ROU	R.Bucharest	A3E			Romanian px, heard 1000 - 1058 s/off with S8-signal, active only Sundays, is IM $2 \times 17780 - 21500 = 14060$ Romanian px heard // 17780 and 21500 - report to BNetzA KON
DARC	14060,0	vt	20	01	ROU	R.Bucharest	A3E			heard 1000 - 1058 s/off, active only Sundays, is IM $2 \times 17780 - 21500 = 14060$, report HB9CET, 1st heard 30 Dec 2012 by DJ9KR
DARC	14190,0	vt	29	01		UiOTH	FMCW			radar pulses heard 0609 - 0620 - report DG0JBJ
DARC	14192,0	0802	11	01	RUS	RUS Navy Kaliningrad	F1B	50	200	is RUS Navy Kaliningrad - DK2OM
DARC	14245,0	0909	28	01		UiMUX	FSK			ALE signal heard
DARC	14255,0	vt	30	01		UiOTH	FMCW			radar pulses heard 0931 - 0945 - report DG0JBJ
DARC	14295,0	0909	28	01	TJK	R.Tajikistan	A3E			S6-signal
DARC	14335,0	vt	23	01		UiOTH	FMCW			radar pulses heard 0712 - 0745 - report DG0JBJ
DARC	21000,0	0833	06	01	CHN	UiMOD	XXX			undefined noise from Central China, 6 kHz wide - DK2OM
DARC	21000,0	vt	vd	01		UiOTH	FMCW			Mario, DG0JBJ, reports 78 radar activities in the range 21010 - 21450. The bandwidth of the radars is always 20 kHz
DARC	21015,0	1417	10	01		UiOTH	FMCW			radar pulses
DARC	21030,0	0718	10	01		UiOTH	FMCW			radar pulses in short strings
DARC	21032,0	1347	19	01		UiPTR	F1B			fast reversals
DARC	21090,0	0910	18	01		UiOTH	FMCW			radar pulses 20 kHz

CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	BD	SH	Remarks and Comments
										spread - report DG0JBJ
DARC	21100,0	0930	31	01		UiOTH	FMCW			radar pulses 20 kHz spread - report DG0JBJ
DARC	21116,0	0934	08	01	RUS	UiPTR	F1B	75	1000	harmonic of 5279, location area of Moscow - report DK2OM
DARC	21150,0	0745	24	01		UiOTH	FMCW			radar pulses 20 kHz spread - report DG0JBJ
DARC	21151,5	1010	09	01	MRC	UiILL	J3E-U			Moroccan fishery - DK2OM
DARC	21160,0	1116	11	01	RUS	UiPTR	F1B	100	2000	is 4th harmonic of 5290 - DK2OM
DARC	21190,0	0937	14	01		UiOTH	FMCW			radar pulses 20 kHz spread - report DG0JBJ
DARC	21190,0	1030	24	01		UiOTH	FMCW			radar pulses 20 kHz spread - report DG0JBJ
DARC	21210,0	1000	31	01		UiOTH	FMCW			radar pulses 20 kHz spread - report DG0JBJ
DARC	21230,0	1106	01	01	TUR	OTH-Radar	FMCW			OTH-Radar from NW Turkey - DK2OM
DARC	21250,0	0915	24	01		UiOTH	FMCW			radar pulses 20 kHz spread - report DG0JBJ
DARC	21250,0	1145	26	01		UiOTH	FMCW			radar pulses 20 kHz spread - report DG0JBJ
DARC	21295,0	0727	08	01		UiOTH	FMCW			radar pulses
DARC	21310,0	0823	10	01		UiOTH	FMCW			radar pulses - report DG0JBJ
DARC	21323,6	0811	28	01	KRE	UiMUX	DPRK			DPRK-FSK600, North Korean Diplo - report DK2OM
DARC	21370,0	0718	10	01		UiOTH	FMCW			radar pulses in short strings
DARC	21370,0	1215	28	01		UiOTH	FMCW			radar pulses 20 kHz spread - report DG0JBJ
DARC	21430,0	0735	30	01		UiOTH	FMCW			radar pulses - report DG0JBJ
DARC	21438,0	1042	25	01	UKR	Call "RCV"	A1A			is RUS navy Sevastopol report DK2OM
DARC	28000,0	ady	dly	01	B	UiILL	A3E			28000 - 28325: many Brazilian CB-ers in AM, audible 1000 - 2000 - DK2OM
DARC	28000,0	vt	vd	01		UiOTH	FMCW			Mario, DG0JBJ, reports 37 radar activities in the range 27770 - 29640. The bandwidth of the radars is between 20 and 60 kHz
DARC	28030,0	vt	vd	01		Driftnet Buoys	A1A			in the range 28030 - 28457 there are the following reports abt driftnet buoys: DK2OM: 39, DJ7KG: 14
DARC	28115,0	1028	16,	01	RUS	Taxi Business	F3E			Taxi traffic, location is Moscow, female and male (Oleg) - report DK2OM
DARC	28430,0	0811	14	01		UiOTH	FMCW			radar pulses - report DG0JBJ
DARC	29355,0	0621	13	01		UiOTH	FMCW			50 kHz spread - report DG0JBJ

DARC 2 – Germany - DK2OM (Wolf)

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 BC -> red

SH = shift --- SP = spread (radar) – SPS = sweeps/sec (radar)

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	1801,5	2023	12	01	CIS		A3E			CIS pirates, unstable carrier, just for info!
DK2OM	1802,0	1926	05	01	CIS		A3E			CIS pirates, unstable carrier, just for info!
DK2OM	1881,4	1929	05	01	F		QPSK	100	100	BC-PSK – radio navigation - Nantes
DK2OM	3500,0	0738	17	01	E		USB			Spanish fishery
DK2OM	3500,2	2143	26	01	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3500,7	1717	02	01	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3500,8	2147	17	01	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3501,0	1950	11	01	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3501,0	1611	16	01	UKR		F1B	75	200	south Ukraine
DK2OM	3501,4	2028	12	01	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3501,9	1950	11	01	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3502,0	1949	06	01	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3503,2	1950	06	01	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3503,5	vt	dly	01	G	no ITU	FSK8	125	1750	ALE – “XSS” “XPU” “XJR” – British MIL Tascomm
DK2OM	3503,6	2255	30	01	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3504,0	2053	01	01	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3504,5	2033	25	01	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3505,5	1814	21	01	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3505,7	2305	23	01	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3506,4	1953	08	01	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3506,7	2031	12	01	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3508,0	2105	28	01	UKR		USB			male voice with Russian figures
DK2OM	3508,6	1953	11	01	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3509,7	2102	17	01	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3509,8	2054	17	01	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3510,0	2015	01	01	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3510,0	2245	16	01	HOL		USB			Dutch fishery
DK2OM	3510,2	2145	17	01	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3512,0	2057	17	01	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3512,6	1945	02	01	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3514,4	1724	02	01	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3516,0	2007	06	01						frequency hopper
DK2OM	3516,8	2009	06	01	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3517,4	1947	11	01	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3517,7	1955	08	01	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3520,5	2303	16	01	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3522,5	1951	02	01	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3524,0	2037	18	01	RUS		F1B	50	250	Moscow
DK2OM	3526,5	2315	07	01	I		F1B	300	850	UK system Clansman – daily, various times – area of Naples
DK2OM	3527,0	2013	01	01	RUS		F1B	50	200	Severomorsk – daily, often idle
DK2OM	3529,3	2018	01	01	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3530,3	1706	16	01	F		PSK4	75	2400	LINK11-CLEW – south of Brest
DK2OM	3532,0	0815	23	01	F		PSK4	75	2300	LINK11-CLEW on both sidebands (5800 Hz wide) – area of Brest
DK2OM	3532,1	1957	08	01	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3535,0	1715	05	01	HOL		USB			Dutch fishery
DK2OM	3536,0	2042	03	01	G		USB			UK fishery, very obscure
DK2OM	3538,5	2035	13	01	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3539,4	2014	03	01	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3539,8	2300	17	01	UKR		A3E			carrier hum noise on both sidebands
DK2OM	3540,0	2244	17	01			USB			Scandinavians

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	3540,2	2048	01	01	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3540,9	2005	06	01	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3541,9	1925	03	01	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3542,5	2123	31	01	BLR		N0N		6k	strong carrier with many spurious emissions – very bad signal
DK2OM	3543,0	1921	03	01	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3545,0	1926	03	01	E		USB			Spanish fishery
DK2OM	3550,0	0600	dly	01	F		A3E			French amateurs not repsecting the bandplans
DK2OM	3550,0	1901	16	01	ALG		FSK8	125	1750	ALE, “IU50” “IU52” “FN50”
DK2OM	3550,0	1840	16	01	AZE		PSK2	120	2600	AT3004D – submode idle –area of Azerbaijan
DK2OM	3550,3	2050	01	01	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3551,0	1940	04	01						frequency hopper
DK2OM	3553,8	ady	dly	01	TUR		PSK8	2400	2400	Stanag4285 – TUR MIL - Ankara
DK2OM	3557,0	2029	01	01	BLR		F1B	75	250	North Belarus – also: 17.01.2013 at1850 utc
DK2OM	3558,6	1954	06	01	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3559,0	2001	06	01	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3560,0	1959	08	01	EU		USB			Scandinavian male persons
DK2OM	3561,0	2011	01	01	RUS		F1B	75	250	Kaliningrad
DK2OM	3568,0	1805	08	01	RUS		F1B	50	250	Velikiye Luki
DK2OM	3570,0	2000	01	01	RUS		PSK2A	120	2600	AT3004D – Kaliningrad
DK2OM	3585,0	1700	dly	01	TWN	HLL	F1C			120 rpm, IOC 576, Wxfax - legal!
DK2OM	3588,0	2023	01	01	RUS		PSK2A	120	2600	AT3004D - Moscow
DK2OM	3593,7	2020	01	01	UKR	D	A1A			Cluster beacon – Sevastopol RUS Navy – “RCV”
DK2OM	3593,9	2021	01	01	RUS	S	A1A			Cluster beacon – Severomorsk RUS Navy – „RIT“
DK2OM	3594,0	2021	01	01	RUS	C	A1A			Cluster beacon - Moscow RUS Navy - “RIW”
DK2OM	3595,0	vt	dly	01	D	no ITU	FSK8	125	1750	ALE, „ZLST“ „ZPRI“ „ZSHO“ „ZBOR“ „ZEMD“ „ZHEL“ „ZKNI“ „ZBOR“ „BPLEZS“ German customs – North-Germany
DK2OM	3596,0	1956	10	01	S	SM5RVH	FSK8	125	1750	ALE, “SM5RVH” “DL0NOT”– just for info!
DK2OM	3600,0	1729	16	01	F		A3E			French amateurs not respecting bandplans
DK2OM	3608,0	2009	01	01	RUS		F1B	50	200	Kaliningrad
DK2OM	3617,0	vt	dly	01	HRV	9A5EX	FSK8	125	1750	ALE, “9A5EX1P” – HAM-ALE - just for info
DK2OM	3622,5	1800	dly	01	J	JMH	F1C			Tokyo Meteo – 120 rpm – IOC576 – daily, legal!!!
DK2OM	3662,0	1454	05	01	CHN		FMCW		100k	Chinese OTHR – 43.5 sps – 3662 – 3772 kHz
DK2OM	3744,0	2006	01	01						frequency hopper
DK2OM	3744,5	2005	01	01	ISR		PSK4	75	2400	MIL-188-110A hybrid modem
DK2OM	3756,0	ady	dly	01	UKR		A3E			UKR – pip – 10 tones – navigation system
DK2OM	3761,5	2025	03	01	POL		FSK8	125	1750	ALE, “NI9” “PL7” “AB2” – Polish MIL
DK2OM	3782,0	ady	dly	01	POR	CTP	F1B	75	850	POR Navy headquarter Lisbon
DK2OM	3794,0	1942	04	01	RUS		PSK2A	120	2600	AT3004D – traffic and submode idle - Kaliningrad
DK2OM	7000,0	ady	dly	01	INS		U/LSB			Indonesian pirates in USB and LSB – every evening audible in Europe – at 1000 utc audible in West Canada
DK2OM	7000,0	1731	09	01	F		FMCW		20k	French burst radar, 6 sps, similar Codar, South France – same as 14000 - every 15 min, daily.
DK2OM	7000,0	0830	05	01	CHN		FSK PSK		6000	Chinese hybrid modem

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	7000,0	1744	04	01	UKR	D	A1A			Cluster beacon – Sevastopol RUS Navy – “RCV” - spurious
DK2OM	7000,0	1820	16	01	?		USB			male persons in French voice
DK2OM	7000,0	0839	27	01						frequency hopper
DK2OM	7001,5	1650	09	01	ALG		PSK4	62.5	1750	Clover 2000 – South Algeria
DK2OM	7003,0	1428	05	01						frequency hopper
DK2OM	7010,0	0824	05	01	RUS		PSK2A	120	2600	AT3004D - Moscow
DK2OM	7010,0	0947	01	01	CHN		FMCW		150k	Chinese OTH Radar – 43.5 sps – 6860 – 7010 kHz
DK2OM	7012,0	1330	22	01	RUS		F1B	75	250	Penza
DK2OM	7012,0	1915	31	01	MRC		USB			Moroccan fishery
DK2OM	7015,0	1943	06	01	CHN		FMCW		50k	Chinese OTH Radar – 43.5 sps – 6990 – 7040 kHz – also strong in Australia
DK2OM	7018,0	2012	08	01	RUS	REA4	F1B	150	500/ 1000	most of the time idle – Russian airforce Moscow – daily, all day – even audible in Japan and Australia
DK2OM	7018,5	1940	dly	01	RUS	REA4	A1A			ident in A1A 1540 and 1940 utc - “REA4” = RUS airforce Moscow - 7018.5 = mark QRG!
DK2OM	7020,0	1458	17	01	FEa	Lima Zero	LSB			Far East net in Italian and Indonesian language, not audible in Europe – only via remote Japan, Australia and California (USA) and South Africa – daily! “village radio”
DK2OM	7032,0	1428	24	01	RUS		PSK2A	120	2600	AT3004D - Penza
DK2OM	7033,1	1744	04	01	UKR	D	A1A			Cluster beacon – Sevastopol RUS Navy – “RCV” - spurious
DK2OM	7033,4	1744	04	01	UKR	D	A1A			Cluster beacon – Sevastopol RUS Navy – “RCV” – spurious – 1320 Hz increments
DK2OM	7034,7	1744	04	01	UKR	D	A1A			Cluster beacon – Sevastopol RUS Navy – “RCV” - spurious
DK2OM	7038,7	ady	dly	01	UKR	D	A1A			Cluster beacon – Sevastopol RUS Navy – “RCV”
DK2OM	7038,8	ady	dly	01	RUS	P	A1A			Cluster beacon – Kaliningrad RUS Navy – “RMP”
DK2OM	7038,9	ady	dly	01	RUS	S	A1A			Cluster beacon – Severomorsk RUS Navy – „RIT“
DK2OM	7039,0	ady	dly	01	RUS	C	A1A			Cluster beacon - Moscow RUS Navy - “RIW”
DK2OM	7039,1	ady	dly	01	KGZ	A	A1A			Cluster beacon – Bishkek RUS Navy – “RJH25”
DK2OM	7039,2	ady	dly	01	RUS	F	A1A			Cluster beacon - Vladivostok RUS Navy - “RJS”
DK2OM	7039,3	ady	dly	01	RUS	K	A1A			Cluster beacon - Petropavlovsk Kamchatskiy - RUS Navy - Pacific fleet - “RCC”
DK2OM	7039,4	ady	dly	01	RUS	M	A1A			Cluster beacon – Magadan RUS Navy – „RTS“
DK2OM	7040,0	vt	dly	01	F	F6BAZ	FSK8	125	1750	ALE, “F6BAZ” – just for info
DK2OM	7040,0	1744	04	01	UKR	D	A1A			Cluster beacon – Sevastopol RUS Navy – “RCV” - spurious
DK2OM	7040,5	vt	dly	01	HRV		FSK8	125	1750	ALE, “9A5EX” – just for info
DK2OM	7041,3	1744	04	01	UKR	D	A1A			Cluster beacon – Sevastopol RUS Navy – “RCV” - spurious
DK2OM	7042,7	1744	04	01	UKR	D	A1A			Cluster beacon – Sevastopol RUS Navy – “RCV” - spurious
DK2OM	7044,0	1744	04	01	UKR	D	A1A			Cluster beacon – Sevastopol RUS Navy – “RCV” - spurious
DK2OM	7045,3	1744	04	01	UKR	D	A1A			Cluster beacon – Sevastopol RUS Navy – “RCV” - spurious
DK2OM	7046,6	1744	04	01	UKR	D	A1A			Cluster beacon – Sevastopol RUS Navy – “RCV” - spurious
DK2OM	7047,0	0736	03	01	UKR		LSB			UKR opess not respecting bandplan

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	7047,9	1744	04	01	UKR	D	A1A			Cluster beacon – Sevastopol RUS Navy – “RCV” - spurious
DK2OM	7049,5	vt	dly	01	F	F4BXW	FSK8	1250	1750	Amateur ALE, just for info!
DK2OM	7055,0	1454	17	01	CHN		FMCW		10k	Chinese OTHR – bursts of 66.7 sps – jumping 6939 and back
DK2OM	7064,0	2011	31	01	CHN		FMCW		10k	Chinese OTH radar – 47.7 sps - jumping
DK2OM	7065,0	2132	23	01	CHN		FMCW		10k	Chinese OTHR – 47.6 sps bursts of 2.6 sec duration – jumping 7145
DK2OM	7067,0	2140	04	01	CHN		FMCW		10k	Chinese OTHR – bursts of 66.7 sps - jumping
DK2OM	7070,0	1807	07	01	GEO	no ITU	FSK8	125	1750	ALE, “MV” “244” “686” “334” “204”
DK2OM	7072,0	2158	04	01	CHN		FMCW		10k	Chinese OTHR – bursts of 47.6 sps - jumping
DK2OM	7084,0	1942	31	01	CHN		FMCW		10k	Chinese OTH radar – 66.7 sps
DK2OM	7088,8	1757	25	01	S	SL0FRO	A1A			cw-trainee, Sweden
DK2OM	7089,8	1945	29	01	TUR		PSK8	2400	2400	Link11 - SLEW – aircraft – Turkish SE coast – area of Cyprus - daily
DK2OM	7091,0	2138	04	01	CHN		FMCW		10k	Chinese OTHR – bursts of 43.5 sps - jumping
DK2OM	7096,0	2010	31	01	CHN		FMCW		10k	Chinese OTH radar – 47.7 sps - jumping
DK2OM	7099,5	0758	17	01	HRV	9A0ZG	FSK8	125	1750	ALE, “9A0ZG” – just for info!
DK2OM	7102,0	0937	17	01	HRV	9A0ALE	FSK8	125	1750	ALE, “9A0ALE” – just for info
DK2OM	7105,0	2255	02	01	TWN CHN		A3E			Sound of Hope – Taiwan and Chinese music jammer - daily
DK2OM	7105,0	vt	dly	01	TUN		A3E			RTV Tunisia - intermodulation
DK2OM	7110,0	vt	dly	01	BRM		A3E		9k	Radio Myanmar
DK2OM	7112,0	1757	07	01	RUS		PSK2	120	2600	AT3004D – Far East-Russia
DK2OM	7118,0	2006	31	01	CHN		FMCW		10k	Chinese OTH radar – 47.7 sps - jumping
DK2OM	7119,0	1044	12	01	RUS		PSK2	120	2600	Far East Russia – often idle - daily
DK2OM	7120,0	1611	05	01	SOM		A3E		9k	Radio Hargaysa Somalia, daily
DK2OM	7126,0	2000	10	01	CHN		FMCW		33k	Chinese OTH Radar – 66.6 sps – hopping to 7132 and back
DK2OM	7132,0	2000	10	01	CHN		FMCW		10k	Chinese OTH Radar – 66.6 sps - hopping
DK2OM	7144,0	0635	19	01	RUS		PSK2A	120	2600	AT3004D - Magnitogorsk
DK2OM	7145,0	2133	23	01	CHN		FMCW		10k	Chinese OTHR – 47.6 sps bursts of 2.6 sec duration – jumping 7065
DK2OM	7155,0	1710	08	01	UKR	RCV	PSK2	120	2600	AT3004D – Sevastopol – RUS naval base – also: 10.01.12
DK2OM	7156,0	2027	17	01	CHN		FMCW		10k	Chinese OTHR – 47.6 sps bursts of 5.3 sec duration – audible in Australia, Japan, Europe
DK2OM	7170,4	1947	30	01	CHN		OFDM		2500	OFDM32 – West China
DK2OM	7173,0	1725	07	01	RUS		PSK2	120	2600	AT3004D - Krasnodar
DK2OM	7175,0	1506	05	01	ETH ERI		A3E		9k	Radio Ethiopia disturbing Radio Eritrea by white noise
DK2OM	7175,0	2138	04	01	CHN		FMCW		10k	Chinese OTHR – bursts of 47.6 sps - jumping
DK2OM	7180,0	2150	04	01	MRC		USB			Moroccan fishery
DK2OM	7180,0	1720	09	01	ERI	VoBME	A3E			Voice of the Broad Masses
DK2OM	7185,0	1610	05	01	ERI ETH		A3E			Radio Ethiopia disturbing Radio Eritrea by white noise - daily
DK2OM	7185,5	vt	27	01	D/ HRV		FSK8	125	1750	ALE, “9A5EX1P” “DK0ESD” just for info
DK2OM	7186,0	0944	01	01	RUS		PSK2A	120	2600	AT3004D – Severomorsk
DK2OM	10112,0	ady	dly	01	TUR		PSK8	2400	2400	Stanag4285 – 600 bps long – TUR MIL - Izmir
DK2OM	10114,8	vt	dly	01	RUS		F1B	100	1000	CIS14 – Penza - daily
DK2OM	10115,0	1734	09	01	CYP		FMCW		20k	OTH Radar Cyprus – 50 sps
DK2OM	10120,0	1629	12	01	CYP		FMCW		20k	OTH Radar Cyprus – 50 sps

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	10123,0	0738	28	01	RUS		PSK2A	120	2600	AT3004D – St. Peterburg
DK2OM	10130,0	2035	07	01	MRC		USB			Moroccan fishery, also 10.01.12 at 2010 utc
DK2OM	10130,0	1853	11	01			FSK8	125	1750	Thales 3000
DK2OM	14000,0	1017	03	01	F		FMCW		20k	French burst radar, 6 sps, similar Codar, South France – same as 7000 – every 15 min, daily.
DK2OM	14036,0	ady	dly	01	RUS	REA4	F1B	150	2000	harmonic from F1B on 7018 Hz, RUS airforce - Moscow - daily
DK2OM	14050,0	2006	08	01	INS		USB			Indonesian pirates, male and female persons
DK2OM	14060,0	1000	27	01	ROU	RRI	A3E			Radio Romania, IM from 17780 and 21500 kHz – 2 x 17780 = 35560 – 21500 = 14060 kHz every Sunday from 1000 – 1100 utc
DK2OM	14086,0	0758	26	01	RUS		PSK2A	120	2600	AT3004D - Tver
DK2OM	14118,8	1536	21	01	CYP		PSK8	2400	2400	Stanag4285 – 600 bps – possibly UK MIL – off on Jan. 22 nd
DK2OM	14124,5	1300	21	01	RUS		F1B	600	600	DPRK-FSK600 – North Korean embassy Moscow
DK2OM	14192,0	0800	11	01	RUS		F1B	50	200	RUS Navy Kaliningrad
DK2OM	14295,1	ady	dly	01	TJK		A3E			3 rd from Radio Tajik on 4765 kHz
DK2OM	14308,0	0803	03	01	RUS		F1B	75	500	Tver
DK2OM	21000,0	1027	27	01	SDN		USB			SDN MFA calling emba Yemen for Pactor 1 traffic , whistling male persons
DK2OM	21000,0	0827	06	01	CHN		noise		6k	Chinese signals, undefined – also 16.01.2013
DK2OM	21000,0	1702	dly	01	F		FMCW		20k	French burst radar, 6 sps, similar Codar, South France – same as 14000 - every 15 min, daily.
DK2OM	21000,0	0830	16	01	CHN		PSK FSK		6k	Chinese multichannel modem, Central China - Chengdu
DK2OM	21002,0	1220	21	01	E		USB			Spanish fishery – area of Canary Islands
DK2OM	21002,1	1201	27	01	SDN		F1B	100	170	Pactor 1 encrypted – MFA Sudan – Khartoum with emba Yemen - daily
DK2OM	21003,0	1031	05	01						frequency hopper
DK2OM	21005,0	0815	30	01	IRN		A3E			BC, spurious from Radio Tehran on 21500 kHz
DK2OM	21060,0	0814	30	01	IRN		A3E			BC, spurious from Radio Tehran on 21500 kHz
DK2OM	21110,0	0900	26	01	TUR		FMCW		20k	OTH Radar NW Turkey – 50 sps
DK2OM	21115,0	0814	30	01	IRN		A3E			BC, spurious from Radio Tehran on 21500 kHz
DK2OM	21116,0	0926	08	01	RUS		F1B	75	1000	harmonic from 5279 kHz (250 Hz shift) – area of Moscow
DK2OM	21145,0	vt	dly	01	MRC		FSK8	125	1750	ALE, “B301”, “C3”, “IR4” “T4” “E4” “A2” “CD” “K3”
DK2OM	21147,0	0940	06	01						frequency hopper
DK2OM	21151,5	1009	09	01	MRC		USB			Moroccan fishery
DK2OM	21160,0	1100	11	01	RUS		F1B	100	2000	4 th from 5290 kHz (500 Hz shift) – St. Peterburg
DK2OM	21162,0	0805	11	01	RUS		F1B	100	500	
DK2OM	21170,0	0815	30	01	IRN		A3E			BC, spurious from Radio Tehran on 21500 kHz
DK2OM	21225,0	0810	30	01	IRN		A3E			BC, spurious from Radio Tehran on 21500 kHz
DK2OM	21230,0	1058	01	01	TUR		FMCW		20k	OTH Radar NW-Turkey – 50 sps
DK2OM	21270,0	1048	02	01	CYP		FMCW		20k	OTH Radar Cyprus – 50 sps
DK2OM	21280,0	0810	30	01	IRN		A3E			BC, spurious from Radio Tehran on 21500 kHz
DK2OM	21300,0	1013	16	01	CYP		FMCW		20k	OTH Radar Cyprus – 50 sps

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	21318,5	0820	30	01	IND		F1B	600	600	DPRK-FSK 600 – 21318.526 kHz – RE embassy - New Delhi - daily
DK2OM	21323,6	0809	28	01	THA		F1B	600	600	DPRK-FSK 600 – 21323.570 kHz – daily – KRE emba Bangkok
DK2OM	21335,0	0810	30	01	IRN		A3E			BC, spurious from Radio Tehran on 21500 kHz
DK2OM	21353,0	0805	20	01	CHN		FMCW		10k	Chinese OTHR – 43.5 sps - bursts of 6 sec length
DK2OM	21390,0	0810	30	01	IRN		A3E			BC, spurious from Radio Tehran on 21500 kHz
DK2OM	21400,0	0725	10	01	RUS		F1B	50	2000	harmonic from 5350 kHz – area of Moscow - daily
DK2OM	21410,0	0906	15	01	RUS		F1B	96	2000	harmonic from 10705 kHz
DK2OM	21410,0	0756	20	01	CHN		FMCW		10k	Chinese OTHR – 47.6 sps - bursts of 11 sec length
DK2OM	21410,0	1015	22	01	TUR		FMCW		20k	OTH Radar NW-Turkey – 25 sps
DK2OM	21422,0	0730	22	01	CHN		FMCW		10k	Chinese OTH Radar – 66.66 sps
DK2OM	21422,3	0854	30	01	FEa		USB			Far East pirate net, male and female persons
DK2OM	21438,0	vt	dly	01	UKR	RCV	A1A			RIP90 de RCV - RUS Navy Sevastopol
DK2OM	21445,0	0810	30	01	IRN		A3E			BC, spurious from Radio Tehran on 21500 kHz – first time heard on Oct. 1 st 2012 - no change on Jan. 30 th 2013 – daily!
DK2OM	21446,0	0830	29	01			unid		8000	unid broadband signal – 21446 – 21454 kHz – also 21450 kHz
DK2OM	25000,0	ady	dly	01	FIN		A3E			time signal Helsinki – just for info – carrier on 25000 – dots on 25001 and 24999
DK2OM	28000,0	vt	dly	01	B		A3E			28000 – 28325 numerous Brazilian CBers
DK2OM	28000,0	vt	dly	01	CIS		F3E			28000 – 29700 numerous CIS taxi nets
DK2OM	28020,0	0817	23	01						frequency hopper
DK2OM	28025,1	1146	13	01			F1B	51	300	F1B bursts - west of Lisbon
DK2OM	28025,3	ady	dly	01			F1B	51	300	F1B bursts - west of Lisbon
DK2OM	28033,0	1018	21	01	FEa		A3E			Far East pirates
DK2OM	28045,0	ady	dly	01	POR		F1B	51	320	F1B bursts - west of Lisbon
DK2OM	28046,0	0833	17	01	MEa		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28090,0	1102	12	01	F		FMCW		20k	French burst radar, 6 sps, duration 3 min., similar Codar, South France – same as 14000 - every 15 min, daily.
DK2OM	28095,0	1538	16	01	RUS		F3E			taxi net, area of Moscow
DK2OM	28100,0	ady	dly	01	POR		F1B	51	320	F1B bursts - 28100.010 kHz - west of Lisbon
DK2OM	28100,1	ady	dly	01	POR		F1B	51	320	F1B bursts - 28100.100 kHz - west of Lisbon
DK2OM	28100,2	ady	dly	01	POR		F1B	51	320	F1B bursts - 28100.160 kHz - west of Lisbon
DK2OM	28100,8	ady	dly	01	POR		F1B	51	320	F1B bursts - 28100.800 kHz - west of Lisbon
DK2OM	28102,0	ady	dly	01	POR		F1B	51	320	F1B bursts – 28102.000 kHz - west of Lisbon
DK2OM	28110,0	0821	19	01	MEa		FMCW		60k	OTH Radar – 307 und 870 sps
DK2OM	28115,0	2247	12	01	RUS		F3E			taxi – area of Moscow – Oleg is called by a woman – daily, all day
DK2OM	28115,0	1004	13	01						frequency hopper
DK2OM	28125,0	2242	12	01	RUS		F3E			taxi – area of Moscow
DK2OM	28125,0	1141	13	01	POR		F1B	51	280	F1B bursts – 28125.0 kHz - west of Lisbon
DK2OM	28130,0	1208	09	01	MEa		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28132,0	1100	02	01	MEa		FMCW		60k	OTH Radar – 307 and 870 sps –

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										bursts of 3.2 and 5.8 sec duration
DK2OM	28151,7	0818	17	01	RUS		F1B	1200	1200	Caucasian region
DK2OM	28155,0	0850	11	01	RUS		FM			taxi Moscow, daily
DK2OM	28175,0	1120	11	01	CIS		A3E			CIS CBers
DK2OM	28185,0	1027	21	01	FEa		A3E			Far East pirates
DK2OM	28200,0	ady	dly	01	POR		F1B	51	320	F1B bursts - west of Lisbon
DK2OM	28210,0	vt	dly	01	UKR		F3E			taxi - Dnepropetrovsk
DK2OM	28210,0	0831	17	01	MEa		FMCW		60k	OTH Radar – 307 sps
DK2OM	28235,0	1118	09	01	FEa		A3E			Far East pirates
DK2OM	28255,0	vt	dly	01	KAZ		F3E			taxi – Almaty
DK2OM	28260,0	1216	09	01	MEa		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28265,0	1530	16	01	RUS		F3E			taxi net, area of Moscow - daily
DK2OM	28275,0	vt	dly	01	POR		F1B	51	270	F1B bursts – 28275.040 kHz - west of Lisbon
DK2OM	28285,0	vt	dly	01	RUS		F3E			taxi – Rostov na Donu
DK2OM	28295,0	1116	09	01	FEa		A3E			Far East pirates
DK2OM	28305,0	vt	dly	01	RUS		F3E			taxi - Krasnodar
DK2OM	28315,0	0822	19	01	MEa		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28360,0	0836	17	01	MEa		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28390,0	vt	dly	01	RUS		F3E			taxi - Vladikavkaz
DK2OM	28450,0	0836	17	01	MEa		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28462,0	0818	11	01	MEa		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28500,0	1219	09	01	MEa		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28595,0	0835	17	01	MEa		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28633,0	1102	10	01	MEa		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28645,0	1018	23	01	MEa		FMCW		60k	OTH Radar – 307 and 870 sps – 60 kHz wide – also: 26.01.
DK2OM	28650,0	0914	10	01	MEa		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28660,0	1030	25	01	MEa		FMCW		60k	OTH Radar – 307 and 870 sps – 60 kHz wide
DK2OM	28675,0	1020	19	01	TUR		FMCW		20k	OTH Radar NW Turkey – 50 sps
DK2OM	28705,0	1100	08	01	MEa		FMCW		60k	OTH Radar – 307 und 870 sps – splattering 100 kHz wide
DK2OM	28725,0	1221	09	01	MEa		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28775,0	1030	25	01	MEa		FMCW		60k	OTH Radar – 307 and 870 sps – 60 kHz wide
DK2OM	28800,0	1103	10	01	MEa		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28825,0	vt	dly	01	UKR		F3E			taxi – Odessa
DK2OM	28833,0	1100	10	01	MEa		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28865,0	1030	25	01	MEa		FMCW		60k	OTH Radar – 307 and 870 sps – 60 kHz wide – also: 26.01.
DK2OM	28877,0	0916	10	01	MEa		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28890,0	0912	10	01	MEa		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28895,0	vt	dly	01	RUS		F3E			taxi – Stavropol
DK2OM	28945,0	vt	dly	01	UKR		F3E			taxi – Donetsk
DK2OM	28962,0	0917	10	01	MEa		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	29020,0	0855	15	01	MEa		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	29035,0	0957	15	01	MEa		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	29055,0	vt	dly	01	RUS		F3E			taxi Stavropol
DK2OM	29055,0	0901	15	01	MEa		FMCW		60k	OTH Radar – 870 sps
DK2OM	29235,0	0820	11	01	MEa		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	29320,0	0816	11	01	MEa		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	29360,0	1040	08	01	MEa		FMCW		60k	OTH Radar – 307 and 870 sps – splattering 100 kHz wide
DK2OM	29500,0	ady	dly	01	G		F1B	81.9	140	Datawell-buoy “Waverider” – area of Gibraltar – daily, all day
DK2OM	29525,0	1018	09	01	MRC		F1B	81,9	140	Datawell-buoy “Waverider” – Moroccan Atlantic coast – area of Casablanca – daily, all day
DK2OM	29575,0	1741	19	01	RUS		F3E			taxi area of Moscow – male and female – daily, all day
DK2OM	29595,0	0826	13	01	CYP		FMCW		20k	OTH Radar Cyprus – 50 sps

IRTS – Ireland – EI5DD (Steve)**KARS – Kuwait – 9K2RR (Faisal)****MRASZ – Hungary - HA7PL (Laci)**

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	DETAILS
MRASZ	3508,0	1539	12	1			USB		"Odin, dwa, .. Noll" russian
MRASZ	3508,0	1821	23	1		Ui	USB		russian language
MRASZ	3509,0	2046	23	1		Ui	A3E		
MRASZ	3510,0	2155	30	1			USB		spanish language?
MRASZ	3515,0	1922	5	1			A3E		instabil carrier
MRASZ	3525,0	1713	20	1			A3E		
MRASZ	3526,0	1730	4	1			N0N		
MRASZ	3526,0	1945	7	1			N0N		
MRASZ	3526,0	1820	23	1			N0N		
MRASZ	3526,0	1846	30	1			N0N		
MRASZ	3553,0	1442	11	1			LSB		russian language
MRASZ	3560,0	1743	5	1			A3E		instabil carrier
MRASZ	3560,0	1959	24	1			USB		Unid. language
MRASZ	3570,0	1945	17	1		Ui	A3E		instabil carrier
MRASZ	3590,0	1815	20	1		Ui	LSB		"Ola Ola Ola"
MRASZ	3593,7	2105	10	1	UKR	D	A1A		beacon "D"
MRASZ	3593,7	2053	15	1	UKR	D	A1A		beacon "D"
MRASZ	3593,8	2033	8	1	RUS	P	A1A		beacon "P"
MRASZ	3593,9	2033	8	1	RUS	S	A1A		beacon "S"
MRASZ	3594,0	2033	8	1	RUS	C	A1A		beacon "C"
MRASZ	7000,0	1255	6	1	RUS	UiMUX	UiMUX		AT3004D
MRASZ	7000,0	1753	22	12	UKR	D	A1A		beacon "D" failed tx again
MRASZ	7000,0	1810	23	1		Ui	USB		Ui language
MRASZ	7000,0	1807	23	1			N0N		
MRASZ	7000,0	1807	23	1	UKR	D	A1A		beacon "D"
MRASZ	7012,0	1911	7	1			USB		arabian?
MRASZ	7012,0	1749	17	1			F1B	250	
MRASZ	7015,0	2108	4	1			A1A		"00006 30080 00002...30010 ar"
MRASZ	7016,0	1009	1	1			USB		Ui. language
MRASZ	7018,0	1421	3	1	RUS	REA4	F1B	1000	
MRASZ	7018,0	1806	7	1	RUS	REA4	F1B	1000	
MRASZ	7018,0	1814	30	1	RUS	REA4	F1B	?	failed tx, like noise till 7033 kHz
MRASZ	7020,0	2033	5	1			USB		Ui. language
MRASZ	7038,7	1812	8	1	UKR	D	A1A		beacon "D" on more freq's
MRASZ	7038,9	ady	dly	1	RUS	S	A1A		beacon "S"
MRASZ	7039,0	ady	dly	1	RUS	C	A1A		beacon "C"
MRASZ	7039,1	ady	dly	1	KGZ	A	A1A		beacon „A”
MRASZ	7039,3	ady	dly	1	RUS	K	A1A		beacon „K”
MRASZ	7105,0	1908	3	1			A3E		U.i BC
MRASZ	7105,0	2037	10	1			A3E		Ui. BC
MRASZ	7120,0	ady	dly	1	SOM		A3E		BC, Radio Hargeisa
MRASZ	7125,0	2038	10	1			A3E		Ui. BC
MRASZ	7170,0	1756	15	1		UiBC	A3E		Ui BC
MRASZ	7175,0	1445	11	1		Ui	A3E		Ui language, weak
MRASZ	7175,0	1811	22	12		Ui	A3E		Ui language
MRASZ	7180,0	1826	9	1			N0N		
MRASZ	7190,0	1731	5	1			A3E		U.i BC
MRASZ	7195,0	2040	10	1			A3E		noise from 7205 kHz
MRASZ	10130,0	2152	10	1		OTHR	XXX		
MRASZ	14235,5	0825	10	1	RUS	UiMUX	UiMUX		AT3004D

OEVSU – Austria – OE3GSA (Gerd)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
oevsu	7105	2100	11	01		unid	A3E			BC music
oevsu	7105	2220	15	01			A3E			Chinese
oevsu	7120	0515	dly	01			A3E			BC Hargaysha
oevsu	7180	1825	09	01		unid	N			action by OE PTT (BC Eritrea)
oevsu	14191	0735	13	01		unid	F1B			idling
oevsu	28200	0730	09	01	CIS	unid	F3E			taxi control stn
oevsu	29467	0735	09	01	CIS		F3E			taxi control stn

PZK – Poland – SP3UZ (Wladyslaw)

REP – Portugal – CT4AN (Jose Francisco)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REP	3500,0	10.14	03	01	E		J3E-U			Spanish fishermen
REP	3505,0	21.29	12	01	E		J3E-U			Fishermen
REP	3508,0	18.07	29	01			J3E-U			Unid language, repeating voice msg.
REP	3510,5	07.33	11	01	E		J3E-U			Fishermen
REP	3521,0	15.03	02	01	E		J3E-U			Spanish fishery
REP	3522,5	20.43	14	01	G		J3E-U			Heavy accented English speakers, cursing
REP	3533,0	19.10	02	01			FSK8			Unid ALE calls
REP	3535,0	19.08	02	01			J3E-U			Unid ops
REP	3535,0	20.03	07	01			J3E-L			Unid language ops
REP	3545,0	19.06	02	01			J3E-U			Unid male ops
REP	3615,0	23.02	18	01	MRC		J3E-U			Fishermen
REP	3636,0	08.58	03	01			J3E-U			French speaking fishermen, not ham ops
REP	3710,0	17.47	07	01			J3E-U			(nautical operations freq.)
REP	3718,0	21.38	30	01	E		J3E-U			Football match retransmission
REP	3738,0	11.14	03	01	E		J3E-U			Spanish fishery
REP	3750,0	12.42	02	01	E		J3E-U			Spanish fishery
REP	7000,0	15.10	03	01	I E		J3E-L			Italian and spanish outbanders, prob truckers
REP	7000,0	16.29	21	01	E		J3E-U			Spanish outbanders, prob long haul truckers
REP	7015,0	09.19	03	01	E		J3E-U			Spanish truckers
REP	7038,6	20.00	16	01	RUS	S	A1A			KALININGRAD, ADY, DLY
REP	7038,7	23.05	16	01	UKR	D	A1A			SEVASTOPOL, ADY, DLY
REP	7038,8	23.19	16	01	RUS	P	A1A			MURMANSK, ADY, DLY
REP	7039,0	23.01	16	01	RUS	C	A1A			MOSCOW, ADY, DLY
REP	7039,1	22.11	16	01	KGZ	A	A1A			KIRGISISTAN, ADY, DLY
REP	7039,2	23.55	16	01	RUS	F	A1A			VLADIVOSTOK, ADY, DLY
REP	7039,3	21.00	16	01	RUS	K	A1A			VOLGOGRAD, ADY, DLY
REP	7039,5	22.07	16	01	RUS	M	A1A			MAGADAN, ADY, DLY
REP	7070,0	14.05	21	01			J3E-L			Music jamming
REP	7105,0	22.12	14	01	CHN		A3E			Chinese language BC station
REP	7120,0	04.25	17	01			A3E			Arabic BC station (via Twenet online SDR)
REP	7120,0	18.41	20	01	SOM		A3E			BC station (Radio Hargeysa)
REP	7120,0	16.35	21	01			A3E			Arabic BC station
REP	10111	22.57	18	01	E		J3E-L			Spanish fishery, galician dialect
REP	10120	20.28	12	01	MRC		J3E-L			Large morrocan fishery net
REP	10120	11.14	31	01	E		J3E-U			Spanish fishery
REP	10121	15.33	24	01	MRC		J3E-U			Morrocan fishermen
REP	10130	20.35	12	01	MRC		J3E-L			Same as 10120,0, chased away by CW ops
REP	10134	17.06	13	01			J3E-U			Russian-like language chat btwin 3 ops
REP	10134	16.29	19	01	MRC		J3E-U			Morrocan fishery
REP	10134	15.34	24	01	MRC		J3E-U			Morrocan fishermen
REP	10134	14.38	25	01	MRC		J3E-U			Morrocan fishermen
REP	10134	15.32	28	01	MRC		J3E-U			Morrocan fishermen
REP	10135	15.51	7	01			F1B	200	170	Not standard signals
REP	10135	19.06	02	01			FMCW			OTH radar
REP	10136	16.34	18	01			J3E-U			Scrambled

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REP	10138	22.05	03	01			J3E-U			Numbers Station
REP	10140	10.45	14	01	MRC		J3E-L			Morrocan fishermen, despite heavy PSK31
REP	10140	08.23	20	01	E		J3E-L			Spanish fishery
REP	10141	19.49	10	01	B		J3E-L			Brasilian ops, poss fishery
REP	14000	07.42	18	01	E		J3E-U			Fishermen
REP	14005	07.59	11	01	E		J3E-U			Fishermen
REP	14005	08.22	14	01	E		J3E-U			Spanish fishery on sea
REP	14015	08.03	20	01	E		J3E-U			Fishermen
REP	14015	08.11	22	01	E		J3E-U			Spanish fishery
REP	14100	08.05	26	01	E		J3E-U			Fishermen
REP	14100	18.55	12	01			J3E-U			English - Phone
REP	14117	10.57	21	01			PSK8	2400	600	Unid STANAG
REP	14155	20.45	18	01			J3E-U			Family Phone call
REP	14165	17.55	18	01			J3E-U			Family call
REP	14192	12.55	29	01	RUS		F1B	50	200	Russian mil FSK
REP	14334	09.36	03	01			FMCW			Short data bursts, maybe OTH radar
REP	18070	14.59	14	01			FMCW			OTH radar
REP	18100	18.00	23	01			OFDM			PLT
REP	18165	13.16	10	01			FMCW			OTH radar
REP	21010	11.11	31	01			FMCW			OTH radar
REP	21015	13.59	10	01			FMCW			OTH radar
REP	21100	11.41	11	01			FMCW			OTH radar
REP	21150	14.18	09	01	MRC		J3E-L			Fishermen
REP	21230	11.08	01	01			FMCW			OTH radar
REP	21410	11.13	31	01			FMCW			OTH radar
REP	28----		17	01	RUS		F3E			Many russian táxi dispatchers
REP	28000	11.50	21	01	RUS		F3E			Taxis
REP	28015	10.00	08	01	RUS		F3E			Taxis
REP	28025	16.32	12	01	B		A3E			Weak signals brazilian ops
REP	28050	12.02	21	01	F		A3E			CB's
REP	28050	11.24	02	01	RUS		F3E			Taxis
REP	28055	10.04	22	01	RUS		F3E			Taxis
REP	28060	22.03	08	01	F		A3E			CB's
REP	28065	15.03	14	01	B		A3E			Brazilian ops
REP	28070	11.00	02	01	F		A3E			CB's
REP	28075	18.52	28	01	F		A3E			CB's
REP	28100	11.59	03	01			F3E			Unid weak FM ops
REP	28105	14.22	06	01			A3E			Unid ops, weak
REP	28125	16.30	16	01	RUS		F3E			Taxis
REP	28125	16.35	18	01	B		A3E			Brazilian ops
REP	28135	10.54	02	01	RUS		F3E			Taxis
REP	28145	16.10	01	01	RUS		F3E			Taxis
REP	28145	12.12	21	01	RUS		F3E			Taxis
REP	28160	13.35	19	01	HRV		F3E			Taxis
REP	28205	14.24	06	01			A3E			Unid ops, weak
REP	28225	11.32	12	01	D		J3E-U			German language hams chat on beacon band segment
REP	28285	13.50	24	01	RUS		F3E			Taxi dispatcher
REP	28330	14.55	26	01			FMCW			OTH radar
REP	28345	16.29	15	01	I		A3E			Talks – female
REP	28355	10.56	26	01	RUS		F3E			YL taxi dispatcher
REP	28378	16.02	10	01	RUS		F3E			Russian talks
REP	28690	11.13	07	01			A1A			Random sequence when prop on 10m opens
REP	28775	12.35	26	01			F3E			YL dispatcher
REP	28800	13.04	26	01			F3E			Carrier
REP	29025	12.37	16	01	RUS		F3E			Russian taxi
REP	29135	13.55	24	01	RUS		F3E			Russian taxi
REP	29215	12.39	16	01	RUS		F3E			Russian taxi
REP	29225	11.45	16	01			F3E			Arabic talk
REP	29525	11.43	16	01	MRC		F3E			Morrocan fishery

SRAL – Finland – OH2BLU (Pekka)

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
SRAL	7000A	1630-1800	11.	1		UiBC	F3E?			BC spurious
SRAL	7006,5	0700-0800	29.	1		UiPTR	F1B		500	
SRAL	7012,0	1100-2000	17. 22.	1		UiPTR	F1B		250	
SRAL	7014,0	1340-1410	17.	1		UiMUX	J7D	12x120	12x200	
SRAL	7016,0	0710-0730	18.	1		UiMUX	J7D	12x120	12x200	
SRAL	7018,0	1100-1530	*	1	RUS	REA4	F1B		1000	Days: 4. 6. 8. 14. 22. 23. 27.- 30. Moscow, tx failure on 30th
SRAL	7018,6	1200-1330	1. 8.	1		UiCarr	N0N			
SRAL	7038,7	h24	dly	1	UKR	D	A1A			Sevastopol, tx failures with spurious signals
SRAL	7038,8	0600-1530	dly	1	RUS	P	A1A			Kaliningrad, keying failures
SRAL	7038,9	0645-1530	dly	1	RUS	S	A1A			Severomorsk
SRAL	7039,0	0530-2030	6. – 31	1	RUS	C	A1A			Moscow
SRAL	7039,1	1430-2030	2. – 10.	1	KGZ	A	A1A			Bishkek
SRAL	7054,0	0700-0730	17.	1		UiMUX	J7D	12x120	12x200	
SRAL	7089,0	0700-1300	16.	1		UiMUX	J7D	12x120	12x200	
SRAL	7089,5	0700-0730	17.	1		UiMUX	J7D	12x120	12x200	
SRAL	7098,0	0930-1422/	*	1		UiPTR	F1B		250	Days: 3. 23. 28. - 30.
SRAL	7113,0	0610-0800	31.	1		UiMUX	J7D	12x120	12x200	
SRAL	7120,0	0315-0530	dly	1	SOM	R. Hargeisa	A3E			
SRAL	7120,0	1330-1400	dly	1	SOM	R. Hargeisa	A3E			
SRAL	7120,0	1500-1900	dly	1	SOM	R. Hargeisa	A3E			
SRAL	7142,0	0915-0945	10.	1		UiPTR	F1B		250	
SRAL	7148,0	1310	24.	1		UiMUX	J7D	12x120	12x200	
SRAL	7151,0	1130-1200	3.	1		UiMUX	J7D	12x120	12x200	
SRAL	7155,0	0500-1730	*	1		UiMUX	J7D	12x120	12x200	Days: 8. 10. 12. 28.
SRAL	7159,0	0730-0800	20.	1		UiPTR	F1B		200	
SRAL	7160,0	0700	25.	1		UiMUX	J7D	12x120	12x200	
SRAL	7160,0	0650-0800	28.	1	RUS	RMW32	A1A			Calls RGR88 etc. procedures
SRAL	7164,0	1310	24.	1		UiPTR	F1B		250	
SRAL	7166,0	0700	25.	1		UiMUX	J7D	12x120	12x200	
SRAL	7168,0	1135-1245	23.	1		UiPTR	F1B		200	
SRAL	7170,0	1930	23.	1		UiMUX	J7D	12x120	12x200	
SRAL	7173,0	0900-1100	12. 24.	1		UiPTR	F1B			
SRAL	7175,0	0315-0530	dly	1	ERI	VoBME 2	A3E			jammed by ETH, QSY 7160 – 7190 kHz
SRAL	7175,0	1430-1800	dly	1	ERI	VoBME 2	A3E			QSY 7160 –7190 kHz, jammed by ETH

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
										until 1700,
SRAL	7186,0	0700-0800	1. 25.	1		UiMUX	J7D	12x120	12x200	Severomorsk
SRAL	7193,0	0700-1400	*	1		UiPTR	F1B		200	Days: 4. 8. - 10. 18. - 20. Often N0 on 7192,9 kHz
SRAL	7195,0	1415-1900	14.	1		UiPTR	F1B		200	
SRAL	7197,0	0800	9.	1		UiMUX	J7D	12x120	12x200	
SRAL	7198,0	0730-0850	14. 30.	1		UiMUX	J7D	12x120	12x200	
SRAL	7200,0	0230-0400	dly	1	SDN	R Sudan	A3E			
SRAL	7200,0	1330-1600	dly	1	SDN	R Sudan	A3E			
SRAL	7200,0	1900-2100	dly	1	SDN	R Sudan	A3E			
SRAL	14084,0	0715-0830/	26.	1	RUS	UiMUX	J7D	12x120	12x200	Tver
SRAL	14198,0	1035	9.	1	RUS	UiPRT	F1B		200	Kaliningrad
SRAL	14295,2	0500-1430	dly	1	TJK	R Tojikiston	A3E			3f 4765,07 kHz, Yangiyul TX
SRAL	14308,0	0700-0730	3. 7. 9.	1		UiPRT	F1B		500	
SRAL	18075,0	1125	10.	1		UiOTHR	FMCW			50Hz / 20 kHz
SRAL	18090,0	1110-1210	4.	1		UiOTHR	FMCW			50Hz / 20 kHz
SRAL	18170,0	0730-0800	3.	1		UiOTHR	FMCW			50Hz / 20 kHz
SRAL	18175,0	0705	23.	1		UiOTHR	FMCW			50Hz / 20 kHz
SRAL	21030,0	1055-1102/	28.	1		UiOTHR	FMCW			50Hz / 20 kHz
SRAL	21100,0	1135-1230	11.	1		UiOTHR	FMCW			50Hz / 20 kHz
SRAL	21150,0	0800-0815	23.	1		UiOTHR	FMCW			50Hz / 20 kHz
SRAL	21330,0	1110-1117/	9.	1		UiOTHR	FMCW			50Hz / 20 kHz
SRAL	21400A	0850	11.	1		UiBC	F3E?			Splatter 21330 – 21470 kHz
SRAL	21410,0	1015-1024	22.	1		UiOTHR	FMCW			50Hz / 20 kHz
SRAL	21415,0	1115-1128	29.	1		UiOTHR	FMCW			50Hz / 20 kHz
SRAL	21438,0	0730-1200	*	1	RUS/UKR	RCV	A1A			Days: 11. – 15. 22. 29. Sevastopol
SRAL	24890,0	1050-1057/	13.	1		UiOTHR	FMCW			50Hz / 20 kHz
SRAL	28 MHz	0850-1130	9.10. 11.	1		UiVOX	F3E			Taxi disp. 8 reports
SRAL	28115,0	0840	6.	1		UiOTHR	FMCW			50Hz / 20 kHz

USKA – Switzerland – HB9CET (Peter)

HB9CET reports:

It seems, that probably due to the current radio propagations, we had less digital intruders (like F1B or CIS12 PSK-systems) than in some months before. But this may change any time. In the 10m band a large number of F3E emissions (taxi services) were a severe daily plague; within minutes you may find dozens of them. Military systems like Stanag 4285, Link 11-SLEW or CLEW were found in several bands. A Link 11 CLEW operating in DSB mode occupied more than 6 kHz of bandwidth at 3532 kHz. The typical sound of a Link 11 SLEW PSK-8 system at 7089.8 kHz may be heard almost daily.

Peter's tip: Recommendation ITU-R SM.1600-1 "Technical identification of digital signals"

www.itu.int/dms_pubrec/itu-r/rec/sm/R-REC-SM.1600-1-201209-I!!PDF-E.pdf

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	3532.0	2139	23	01			B7D	75	6k00E	Link 11- CLEW (in DSB or ISB mode)
USKA	7000.0	2015	03	01	UKR	D	A1A			Beacon D (malfunction) often
USKA	7000.0	2309	11	01			J3E-U			unid language, short overs
USKA	7011.875	1249	22	01			A1A			illegal jammer (dash/dots)
USKA	7012.0	1249	22	01			F1B	75	250	jammed by A1A
USKA	7018.0	0103	01	01	RUS	REA4	F1B	150	1000	Moscow daily
USKA	7019.0	2239	20	01			J3E-U			spanish
USKA	~ 7032.0 to ~ 7048.0	2014	03	01		D	A1A			Beacon D at many frequencies (malfunction)
USKA	7038.3	2248	06	01	RUS	K	A1A			Beacon K Petropavlovsk daily
USKA	7038.7	0110	01	01	UKR	D	A1A			Beacon D Sevastopol daily
USKA	7038.8	0956	08	01	RUS	P	A1A			Beacon P Kaliningrad daily
USKA	7038.9	0111	01	01	RUS	S	A1A			Beacon S Murmansk daily
USKA	7039.0	2246	17	01	RUS	C	A1A			Beacon C Moscow daily
USKA	7039.1	1636	01	01	RUS	A	A1A			Beacon A daily
USKA	7039.4	2249	06	01	RUS	M	A1A			Beacon M Magadan daily
USKA	7065.0		29	01			FMCW	47 sps	10k	OTHR
USKA	7070.0	1535	02	01		571	MFSK8	125	1750	MIL 188-141A daily
USKA	7070.0	1543	02	01		810202	MFSK8	125	1750	MIL 188-141A
USKA	7070.0	0135	03	01		810203	MFSK8	125	1750	MIL 188-141A often
USKA	7070.0	0346	03	01		244	MFSK8	125	1750	MIL 188-141A daily
USKA	7070.0	0534	03	01		MV	MFSK8	125	1750	MIL 188-141A daily
USKA	7089.8	1700	23	01			G1D	2400	2k6	PSK-8: Link 11- SLEW often
USKA	7105.0	2208	06	01	TWN		A3E			BC (2 stations) daily
USKA	7105.0	2208	06	01	CHN		A3E			BC (2 stations) daily
USKA	7110.0	0105	01	01			A3E			BC daily
USKA	7119.0	2151	01	01	RUS	REA4	F1B	150	1000	daily
USKA	7119.0	2339	10	01			OFDM		~2k7	
USKA	7120.0	1615	08	01	SOM		A3E			Radio Hargeisa daily
USKA	7122.0	2212	06	01			FMCW	43 sps	10k	OTHR BD 12.3s; BRI 38s
USKA	7125.0	2207	06	01			FMCW	43 sps	10k	OTHR BD 12.3s; BRI 38s
USKA	7155.0	0508	09	01			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D
USKA	7180.0	1541	06	01			Noise		10 kHz	Jammer often
USKA	7180.0	1707	22	01			A3E			BC often
USKA	7185.0	1539	06	01			Noise		10 kHz	Jammer often
USKA	7185.0	1541	06	01			A3E			BC, jammed often
USKA	7186.0	0106	01	01			J7D	12x	2k6	PSK-2: CIS12 = AT3004D
USKA	7190.0	0120	01	01			A3E			BC often
USKA	7190.0	1725	01	01			Noise		10 kHz	Jammer often
USKA	7190.0	1726	01	01			A3E			BC, jammed often
USKA	7197.0	0610	09	01			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D often
USKA	14060.0	1000	20	01	ROU	RRI	A3E			Radio Romania International IM: (2x17780)-21500 = 14060 kHz QRT at 1059 every sunday
USKA	14084.0	0924	28	01			A1A			letters, many special characters splattering over ~ 10kHz
USKA	14118.8	1522	21	01	CYP		G1D	2400	2400	PSK-8 Stanag 4285 in 110° frame format 600bps/long
USKA	14192.0	1238	22	01			F1B	50	200	often
USKA	14344.65	2246	06	01			PSK-8	2400	2k4	MIL 188-110 modified often
USKA	21000.0	0804	09	01			N0N			long lasting carrier often
USKA	21000.0	0908	20	01			?		~ 10k	unidentified signal ~60° often
USKA	21010.0	1139	08	01			J3E-U			unid language
USKA	21190.0	1004	14	01			FMCW	50 sps	20k	OTHR often
USKA	21290.0	1307	03	01			FMCW	50 sps	20k	OTHR
USKA	21321.6	0813	09	01			F1B	600	600	ARQ system often
USKA	21400.0	0912	15	01			F1B	50	2000	4 rd from 5350 often
USKA	21409.6	0907	15	01			F1B		2000	2 nd from 10704.8
USKA	21438.0	1004	08	01		RCV	A1A			to various stations often
USKA	28130.0	1024	20	01			FMCW	307 sps	~50k	OTHR
USKA	28710.0	1109	08	01			FMCW		~50k	OTHR with variing sweep rate
USKA	29350.0	1024	20	01			FMCW	870 sps	>50k	OTHR with variing sweep rate
Taxi services										
USKA	28065.0	1137	08	01			F3E			almost daily

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	28115.0	1136	08	01			F3E			almost daily
USKA	28165.0	1135	08	01			F3E			almost daily
USKA	28185.0	1135	08	01			F3E			almost daily
USKA	28615.0	1124	08	01			F3E			almost daily
USKA	28655.0	1125	08	01			F3E			almost daily
USKA	28695.0	1125	08	01			F3E			almost daily
USKA	28750.0	1123	08	01			F3E			almost daily
USKA	28765.0	1126	08	01			F3E			almost daily
USKA	28790.0	1126	08	01			F3E			almost daily
USKA	28835.0	0918	20	01			F3E			almost daily
USKA	28855.0	1128	08	01			F3E			almost daily
USKA	28865.0	0918	20	01			F3E			almost daily
USKA	28895.0	1129	08	01			F3E			almost daily
USKA	28915.0	0916	20	01			F3E			almost daily
USKA	28930.0	1134	08	01			F3E			almost daily
USKA	28935.0	1137	20	01			F3E			almost daily
USKA	28955.0	1130	08	01			F3E			almost daily
USKA	28965.0	1131	08	01			F3E			almost daily
USKA	29005.0	1133	08	01			F3E			almost daily
USKA	29035.0	1137	21	01			F3E			almost daily
USKA	29055.0	0915	20	01			F3E			almost daily
USKA	29065.0	0914	20	01			F3E			almost daily
USKA	29335.0	1027	20	01			F3E			almost daily

Veron 1 – Netherlands – PA2GRU (Dick)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SHIFT	DETAILS
VERON	3527,0	19.03	10	1		UiPTR	F1B		Ptr
VERON	3567,5	17.57	12	1	CIS	K4TA	A1A		PPPPP 5BL (to: YFYZ)
VERON	3567,5	18.01	12	1		YFYZ	A1A		YFYZ R 160 k (working simplex)
VERON	3568,0	17.55	12	1		UiPTR	F1B		Ptr
VERON	3653,0	18.12	29	1		UiPTR	F1B		Ptr
VERON	3732,5	22.02	19	1			J3E-1		Pop music; no call
VERON	3792,0	22.27	12	1		UiCar	NON		Long persistent carrier (for hours!!); S9+30
VERON	3797,0	18.07	26	1			JAM		Rushing noise; 14k spread
VERON	7033,0	14.03	24	1	CIS	UiCW	A1A		Idling (ending: QJB 5 k)
VERON	7038,7	15.13	12	1	UKR	D	A1A		Beacon Sevastopol
VERON	7038,7	15.03	19	1	UKR	D	A1A		Beacon Sevastopol
VERON	7038,7	23.34	26	1	UKR	D	A1A		Beacon Sevastopol
VERON	7038,8	13.02	8	1	RUS	P	A1A		P-beacon (also at 13/01)
VERON	7038,8	07.42	30	1	RUS	P	A1A		P-beacon
VERON	7038,8	15.13	12	1	RUS	P	A1A		Beacon Kaliningrad
VERON	7038,9	vt	vd	1	RUS	S	A1A		S-beacon
VERON	7038,9	15.13	12	1	RUS	C	A1A		Beacon Moscow
VERON	7038,9	13.47	19	1	RUS	S	A1A		Beacon Severomorsk
VERON	7039,0	17.52	12	1	RUS	C	A1A		C-beacon
VERON	7039,0	16.50	30	1	RUS	C	A1A		C-beacon
VERON	7039,1	19.45	6	1	AZB	A	A1A		A-beacon
VERON	7039,30	16.22	31	1	RUS	K	A1A		K-beacon
VERON	7039,4	07.45	30	1	RUS	M	A1A		M-beacon
VERON	7048,9	19.45	6	1	RUS	S	A1A		S-beacon
VERON	7052,0	09.58	7	1		UiMOD			Possibly High Speed Morse
VERON	7056,5	13.41	19	1		UiMux	PSK8	2k4	
VERON	7098,0	11.44	3	1		UiPTR	F1B		Ptr
VERON	7105,0	22.01	12	1	CHN		A3E		Chinese speech,male; S8
VERON	7120,0	18.41	16	1	SOM	R.H	A3E		speech and music, also 24/1
VERON	7120,0	18.41	12	1	SOM	R.Hargaysa	A3E		E.African speech; S7
VERON	7170,0	16.01	19	1			JAM		White noise jammer; 16k spread
VERON	7171,0	08.15	28	1	E	UiILL	J3E-u		Spanish, male, fishery?
VERON	7175,0	15.39	26	1			JAM		White noise jammer; 16k spread

VERON	7184,0	16.11	6	1		Stanag	PSK8	2400	harmful
VERON	7193,0	17.49	26	1					Frequency hopper
VERON	7198,5	12.25	28	1	CIS	UiILL	J3E-u		male voices, Russian
VERON	10112,0	15.04	12	1	TUR	UiMux	PSK8	2k4	Stanag4285
VERON	14118,0	09.54	22	1		Stanag	PSK8	2400	
VERON	14149,0	13.29	26	1					Frequency hopper
VERON	14180,0	10.01	22	1		UiILL	J3e-U		figures- male Italian language
VERON	14192,0	vt	vd	1		UiPTR	F1B		Revs/Ptr-
VERON	14192,0	09.45	30	1		UiPtr	F1B	200	revs, ptr
VERON	14192,0	10.02	29	1	RUS	UiPtr	F1B	200	Russian Navy, Kaliningrad, Ptr
VERON	14192,0	12.19	12	1	RUS	UiPTR	F1B	200	Printer
VERON	14192,0	12.35	27	1	RUS	UiPTR	F1B	200	Printer
VERON	14242,0	15.21	19	1					Frequency hopper
VERON	14260,0	12.37	19	1					Frequency hopper
VERON	14280,0	10.14	16	1	RUS	UiILL	A3E		synth. Voice, female, figures
VERON	18090,0	11.04	4	1		OTHR	FMCW		radar, 18080-18100 KHz
VERON	18099,0	10.27	9	1	Italy	IK6BAK	A1A		beacon ,outside IBP
VERON	21095,0	11.46	11	1		OTHR	FMCW		radar,21085-21110 KHz wide
VERON	21438,0	10.27	24	1	RUS	RCV	A1A		RIP90 DE RCV QTC 313 31 16 1602 313 =
VERON	21438,0	10.27	24	1	RUS	RCV	A1A		NAWIP 033 134 KARTA (etc)
VERON	21438,0	08.05	28	1	RUS	RCV	A1A		RCV OK QYT4 QWH 12794/16976 K
VERON	28165,0	11.50	11	1	RUS	TAXI	F3E		taxi female

The monitoring team of IARU Region 1

Many thanks for your interest!

credits:

Wavecom Elektronik – Buelach – Switzerland

SSB-Electronic – Iserlohn – Germany

BAZ – Special Antennas – Bad Bergzabern - Germany

FTS – Funktechnik Seipelt – Hoppegarten - Germany

German PTT (BNetzA = Federal Network Agency)

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