



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 ++
++ ERASD: SU1SA – Sayed ++ IARC: 4Z1AB – Amos ++ IRTS: EI5DD - Steve ++ KARS: 9K2RR – Faisal ++
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++ URE: EA5DY - Salvador ++ USKA: HB9CET - Peter ++ VERON: PA2GRU - Dick ++ ZRS: S56ZDB – Darko ++
++ G3VZV – Graham (satellite) ++ TG9ADV – Jorge (Co-ordinator Region 2) ++ VK3MV – Peter (Co-ordinator Region 3) ++
++ DF8FE – (Webmaster assis.) ++ DL8AAM (ALE) ++ DJ7KG (BUOYS) ++ DF5SX (BC) ++ DARC (server support) ++
++ OD5TE (Hani) ++ VE6SH – Tim (IARU President) ++ PB2T – Hans (IARU R1 President) ++ 9A5W - Nikola (EC-IARU-R1
++ PTTs: German (BNetzA), BAKOM (Switzerland), OFCOM (UK) ++ SK6AW – DX-Cluster ++

Part 1: News and infos

Part 2: Detailed reports of the national co-ordinators

Part 1: News and Infos

1. Amateurbands = Russian military bands

Russian military traffic in F1B and PSK increased on 7, 10, 14 and 21 MHz. For example: 7032 kHz AT3004D from Voronezh and 21152 AT3004D from Volgograd. The German BNetzA was informed and filed complaints. The Russian military occupied 26 frequencies between 7000 and 7200 kHz (including cluster beacons) in September 2012. What do you think about a new AWARD named "WORM" = Worked Only Russian Military???

Actions by the German BNetzA (official complaints) initiated by DK2OM:

7032.0 kHz - 12 x 120 Bd BPSK – AT3004D, daily, location: area of Voronezh, RUS

7117.0 kHz – F1B 100 Bd, 500 or 1000 Hz shift, every evening, location: Moscow, RUS

21300.0 kHz – F1B 100 Bd, 2000 Hz shift, 4th from 5325 kHz, daily, RUS

21424.0 kHz – F1B 50 Bd, 400 Hz shift, 2nd from 10712 kHz (50 Bd, 200 Hz shift), daily, location: Novgorod, RUS

2. Chinese Radar on 7 MHz – now stronger than ever before

We observed, that the Chinese OTH Radars left our 40 m-band for few weeks. But now they are back with a very strong burst system, 10 kHz wide and 66.66 sps. S9 signal! The Region 1 and 3 are severely affected.

3. Beacon "L" disappeared

The clusterbeacon "L" on 7039.2 kHz was no longer audible. So I believe, that the official complaint by the German BNetzA was successful. Many thanks to the BNetzA for assistance!

4. Stanag4285 on 21 MHz

Mike and Peter (HB9CET) found Stanag4285 transmissions on 21026.8 and 21241.8 kHz. (Parameters: PSK8, 2400 Bd, 2400 Hz shift, 600 bps long). Location: Probably Ascension Island. I informed the British Monitoring System.

5. Radio Hargaysa Somalia on 7120 kHz

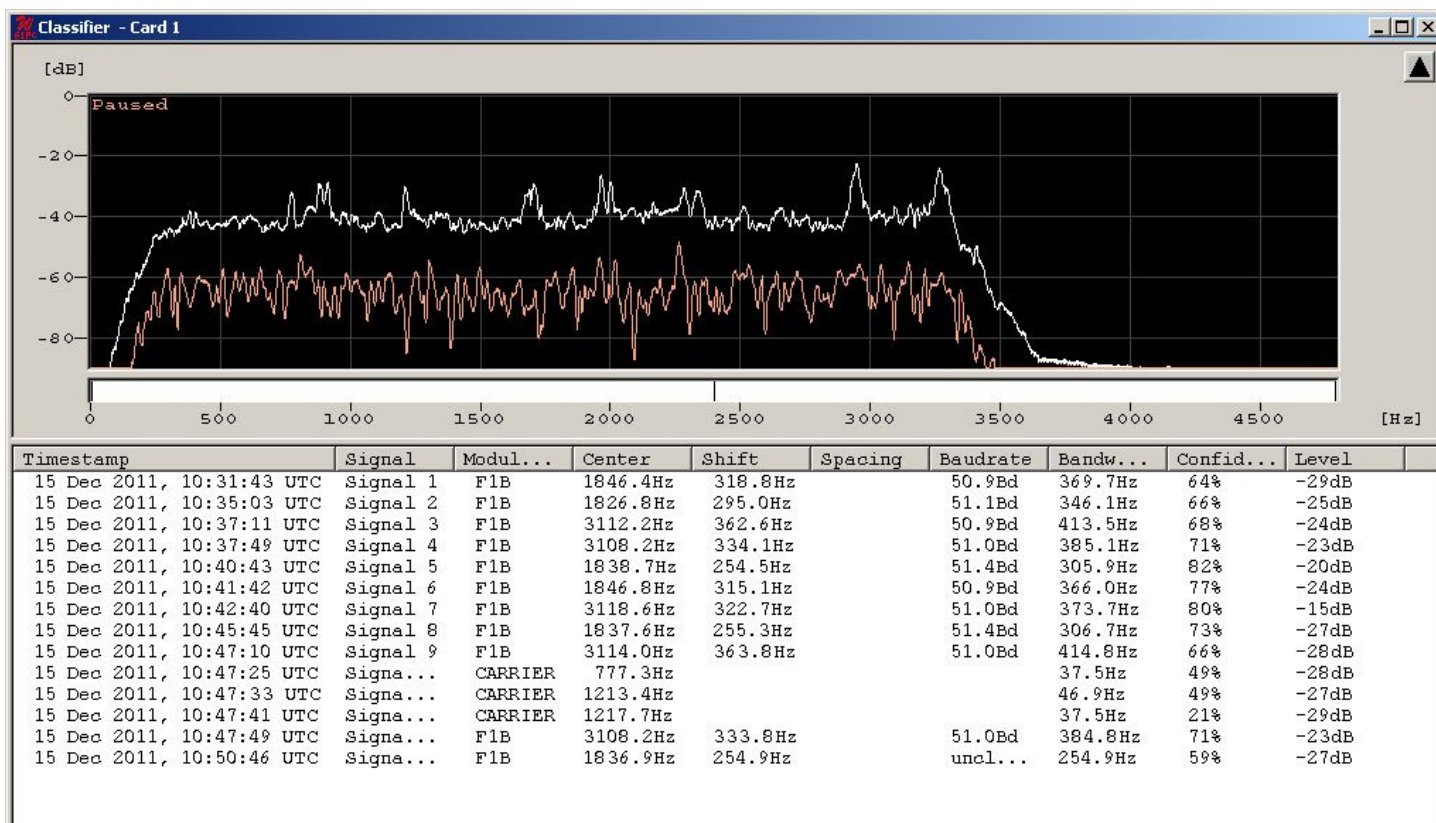
The Dutch PTT, German BNetzA, Austrian BMVIT and the Swiss BAKOM filed official complaints! Thanks for support!

6. F1B bursts from Portugal still on the air

F1B burst group – each F1B signal with 51 Bd and 320 Hz shift. Location: West of Lisbon, purpose still unknown.

Soundfile: <http://www.iarums-r1.org/iarums/sound/f1b-51.wav>

Screenshot: DK2OM with Wavecom W61 – Classifier in continuous mode monitoring 28100 kHz



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

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

Part 2: Detailed reports of the national Co-ordinators

DD = day ** MM = month ** dly = daily ** vt = various times ** vd = various days ** BD = Baud ** SH = shift **
 SP = spacing ** Mode = mode of transmission ** A3E = AM ** A1A = CW ** J3E-U = USB ** J3E-L = LSB ** FSK
 (F1B) = frequency shift keying ** PSK = phase shift keying ** OFDM = orthogonal frequency division multiplex
 ALE (MIL-188-141A) = automatic link establishment ** MUX = multiplex ** Ui (unid) = unidentified ** Illicit = illegal
 ** 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 SEPTEMBER 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 before, and are now joined by Radio Hargeisha on 7120 kHz.

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

ARSK – Kenya – 5Z4NU (Ted)

SOC	kHz	UTC	DD	MM	ITU	Ident	MODE	Remarks
ARSK	7120.0	1700	dly	9	SOM	Hargeisha	A3E	Radio Hargaisa, republic of Somaliland (not Somalia.)
ARSK	7175.0	vt	dly	9	ERI?	UiBC	A3E	VOBM or Addis Abasa
ARSK	7190.0	vt	dly	9	ERI? ETH?	UiBC	A3E	VOBM or Addis Ababa.
ARSK	7200.0	vt	dly from 12/9	9	SDN	Khartoum	A3E	Broadcast, Khartoum.

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

CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	Remarks and Comments
DARC	3590,0	1800	dly	09	E	UiILL	J3E-U	Spanish fishery, no idents - DK2OM
DARC	6999,0	1617	03	09		UiMUX	PSK2	AT-3004-D, 3 kHz spread into ham band
DARC	7000,0	2349	01	09		UiILL	J3E-L	2 male persons in Portuguese voice, Portugal or Brasil
DARC	7000,0	vt	02	09	I	UiILL	J3E-L	2 male persons in Italian voice
DARC	7000,0	0237	07	09		UiILL	J3E-L	unid male voice and language
DARC	7000,0	2053	17	09	I	UiILL	J3E-L	net of Italian male persons, other than 7000,2 activity at the same time
DARC	7000,0	2024	19	09	RUS	UiMUX	PSK2	AT-3004-D
DARC	7000,0	1648	21	09	I	UiILL	J3E-L	OP Angelo, 2 male persons in Italian voice, LSB is out of ham band
DARC	7000,0	vt	30	09	I	UiILL	J3E-L	2000 - 2030: large net, Italian male persons. Their language is that of radio amateurs
DARC	7000,0	vt	vd	09	E	UiiLL	J3E-U	Spanish fishery
DARC	7000,0	vt	vd	09	INS	UiILL	J3E	Indonesian pirates, using SSB-USB and alternatively SSB-LSB, daily - heard at 1640, 1900
DARC	7007,5	2107	01	09	(MR C)	UiILL	J3E-U	unid male voices, unid language, poss. MRC
DARC	7008,0	2030	20	09	RUS	UiPTR	F1B	printer, RUS MIL Moscow
DARC	7010,0	vt	vd	09	RUS	UiMUX	PSK2	AT-3004-D, location nw of Smolensk
DARC	7016,0	1812	28	09	RUS	UiPTR	F1B	printer, location Kaliningrad
DARC	7032,0	1858	12	09	RUS	UiMUX	PSK2	AT-3004-D, Voronezh, heard 0335 - 2024, 7 reports all month
DARC	7032,0	2022	21	09	RUS	UiMUX	PSK2	AT-3004-D; location Voronezh
DARC	7038,7	2018	03	09	UKR	beacon D	A1A	beacon D, Sevastopol

CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	Remarks and Comments
DARC	7038,7	vt	dly	09	UKR	beacon D	A1A	beacon "D" - Sevastopol, heard 0045, 1800, 2230
DARC	7038,9	vt	vd	09	RUS	beacon S	A1A	beacon "S" - Severomorsk
DARC	7039,0	2018	03	09	RUS	beacon P	A1A	beacon P, Kaliningrad
DARC	7039,0	vt	vd	09	RUS	beacon P	A1A	beacon "P" - Kaliningrad
DARC	7039,0	vt	vd	09	RUS	beacon C	A1A	beacon "C" - Moscow heard 0700, 1800, 1900
DARC	7039,1	vt	vd	09	KGZ	beacon A	A1A	beacon "A" - Bishkek
DARC	7039,2	2346	01	09	RUS	beacon L	A1A	beacon St. Petersburg
DARC	7039,2	vt	vd	09	RUS	beacon F	A1A	beacon "F" - Vladivostok
DARC	7039,2	vt	vd	09	RUS	beacon L	A1A	beacon "L" - St. Petersburg
DARC	7039,4	2020	17	09	CZE	OK0EPB	A1A	"beacon driven by pendulum"
DARC	7039,4	vt	vd	09	RUS	beacon K	A1A	beacon "K" - Petropavlovsk
DARC	7039,5	vt	vd	09	RUS	beacon M	A1A	beacon "M" - Magadan
DARC	7042,0	2017	30	09		UiMUX	FSK8	ALE heard
DARC	7048,0	2350	01	09		UiPTR	F1B	unid printer
DARC	7051,5	2017	30	09		UiMUX	XXX	mux, humming noise
DARC	7054,0	2018	30	09	RUS	Navy Moscow	F1B	RUS Navy Moscow daily heard 0600 - 2330, 0056, fast reversals most of the time
DARC	7054,0	h24	vd	09	RUS	Navy Moscow	F1B	RUS Navy Moscow
DARC	7056,5	1030	27	09		UiMUX	XXX	mux, 4 channels
DARC	7092,0	2100	22	09		UiCAR	N0N	long lasting carrier
DARC	7095,0	0123	21	09		UiPTR	F1B	unid printer
DARC	7098,0	1511	27	09		UiMOD	N0N	carrier with hum on both sidebands
DARC	7100,0	vt	15	09		UiPTR	F1B	unid printer heard 0315 - 0513
DARC	7100,0	vt	19	09	I	UiILL	J3E-U	2 male persons in Italian dialect, engine noise (fishery?)
DARC	7100,0	1525	vd	09	ETH	Govt. Jam	JAM	white noise jammer
DARC	7100,0	1525	vd	09	ERI	VOBME	A3E	under wn-jammer
DARC	7100,0	1745	vd	09	ERI	VOBME	A3E	HOA mx S9, weak modulation, found // 7165
DARC	7100,5	0709	20	09		UiCAR	N0N	long lasting carrier
DARC	7101,0	0707	20	09		UiMUX	XXX	8 channels
DARC	7102,0	vt	vd	09		UiPTR	F1B	unid printer heard all month at 1350 - 1800
DARC	7103,5	0709	20	09		UiMUX	XXX	8 channels
DARC	7105,0	2101	01	09		UiCAR	N0N	long lasting carrier with hum, S9+20dB
DARC	7105,0	1802	02	09		UiPTR	FSK8	ALE heard
DARC	7105,0	2155	04	09	CHN	Soh Xi Wang Zhi Sheng	A3E	Chinese px, s/on 2155
DARC	7105,0	2200	15	09	CHN	Soh Xi Wang Zhi Sheng	A3E	Chinese px S9+20dB
DARC	7105,0	2155	16	09	TWN	Sound of Hope	A3E	under Chinese BC which is used as a jammer, 2135 - 2220
DARC	7105,0	2155	16	09	CHN	Soh Xi Wang Zhi Sheng	A3E	Chinese BC which is used as a jammer, 2200 - 2300
DARC	7105,0	vt	16	09	TUN	RTV Tunisia	A3E	heard 1915 - 2108 s/off
DARC	7105,0	2200	27	09	TWN	Sound of Hope	A3E	under Chinese BC which is used as a jammer, 2200 - 2300
DARC	7105,0	vt	dly	09	TUN	RTV Tunisia	A3E	Arabic music heard all month 1910 - 2108 s/off, 17 reports all month
DARC	7110,0	2340	01	09	BRM	R.Myanmar	A3E	heard all month 2340 - 0015, 9 reports all month
DARC	7110,0	1450	21	09		UiCAR	N0N	long lasting carrier
DARC	7110,0	1545	vd	09	ERI	VOBME	A3E	under heavy jam by ETH
DARC	7110,0	1545	vd	09	ETH	Govt. Jam	JAM	heavy white noise jam
DARC	7111,0	2350	01	09		UiILL	J3E-U	2 male persons in Portuguese voice
DARC	7111,0	0105	02	09		UiILL	J3E-U	2 male persons in Portuguese voice
DARC	7111,0	2102	13	09		UiPTR	F1B	unid printer
DARC	7111,0	vt	14	09		UiPTR	F1B	heard 1619 - 1843
DARC	7114,0	1620	03	09		UiPTR	F1B	unid printer
DARC	7114,0	1747	17	09		UiPTR	F1B	reversals with occasional printer

CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	Remarks and Comments
DARC	7115,0	1630	vd	09	ERI	VOBME	A3E	is active
DARC	7115,0	1630	vd	09	ETH	Govt. Jam	JAM	white noise jammer on VOBME
DARC	7117,0	vt	02	09	RUS	UiPTR	F1A	heard 1458 - 1801, fast reversals, very harmful
DARC	7117,0	1610	03	09	RUS	UiPTR	F1A	fast reversals, 1000 Hz shift
DARC	7117,0	2014	05	09	RUS	UiPTR	F1A	CW-F1A, Cyrillic morse, shift keying - is Moscow
DARC	7117,0	vt	23	09	RUS	UiPTR	F1B	fast reversals 1000 Hz, heard 1711 - 2025
DARC	7117,0	vt	vd	09	RUS	UiCW	F1A	fast reversals most of the time, with occasional CW in F1A, Russian letters, very harmful!, location Kaliningrad
DARC	7120,0	vt	13	09	SOM	R.Hargays a	A3E	heard by DJ9KR 1737 - 1800, S9+35dB with a dipole
DARC	7120,0	vt	14	09	SOM	R.Hargays a	A3E	weak music heard 1450, s/off at 1530, report DJ9KR
DARC	7120,0	vt	17	09	SOM	R.Hargays a	A3E	HOA music heard 1830 - 1903 s/off, signal - 70 dBm
DARC	7120,0	vt	18	09	ERI	VOBME	A3E	under white noise jammer, heard 1610 - 1701
DARC	7120,0	vt	18	09	ETH	Govt. Jam	JAM	white noise jammer, heard 1610 - 1701
DARC	7120,0	vt	18	09	SOM	Hargaysa	A3E	HOA music heard at 1550
DARC	7120,0	vt	18	09	SOM	R.Hargays a	A3E	HOA music and Somali language, ann: "Radio Hargaysa jamhuriyada Somaliland" (1901 at s/off)
DARC	7120,0	1628	20	09	ETH	Govt. Jam	JAM	white noise jammer on VOBME
DARC	7120,0	1628	20	09	ERI	VOBME	A3E	under white noise jammer of ETH Govt.
DARC	7120,0	vt	20	09	SOM	R.Hargays a	A3E	0430 (S9), 0530 fading out
DARC	7120,0	1732	30	09	SOM	Hargaysa	A3E	HOA music
DARC	7122,0	2102	13	09		UiPTR	F1B	unid printer
DARC	7122,0	vt	14	09		UiPTR	F1B	heard 1619 - 2007
DARC	7122,0	2117	22	09		UiMUX	PSK2	AT-3004-D
DARC	7124,0	1829	20	09		UiMUX	PSK2	AT-3004-D
DARC	7149,0	0650	20	09	RUS	RMV46, RFO	J3E-U	Ru figure spelling
DARC	7152,0	vt	04	10	CHN	Chinese OTH- Radar	FMCW	jumping between 7152 and 7155 kHz; 66,66 sps ; 11,7 s long bursts, 10 kHz spread - strong in Germany as S9+10dB
DARC	7160,0	1635	03	09	ETH	ETH Govt Jammmer	JAM	white noise jammer
DARC	7160,0	1635	03	09	ERI	VOBME	A3E	from 7165
DARC	7160,0	1733	vd	09	ETH	Govt. Jam	JAM	heavy white noise jam
DARC	7160,0	1733	vd	09	ERI	VOBME	A3E	under heavy white noise jam
DARC	7164,0	1620	13	09	RUS	UiMUX	PSK2	AT3004D, area of Moscow - DK2OM
DARC	7165,0	1633	03	09	ETH	ETH Govt Jammmer	JAM	white noise jammer
DARC	7165,0	1633	03	09	ERI	VOBME	A3E	covered by white noise jammer, to 7160
DARC	7165,0	1723	14	09	ETH	ETH Govt Jammmer	JAM	white noise jammer
DARC	7165,0	0335	23	09		UiBC	A3E	Arabic px
DARC	7165,0	0335	24	09	E.Af	UiBC	A3E	Ar px
DARC	7165,0	1745	vd	09	ERI	VOBME	A3E	Ar px S9+20dB, found // 7100
DARC	7165,0	vt	vd	09	ERI	VOBME	A3E	seems to be main tx-ing frequency
DARC	7170,0	1610	03	09	ERI	VOBME	A3E	is active
DARC	7170,0	1610	03	09	ETH	ETH Govt Jammmer	JAM	Ethiopian Government jammer on VOBME, White Noise
DARC	7170,0	1630	03	09	ETH	ETH Govt Jammmer	JAM	white noise jammer
DARC	7170,0	1630	03	09	ERI	VOBME	A3E	covered by white noise jammer, to 7165
DARC	7170,0	vt	03	09		UiBC	A3E	heard 1630 - 1632/ s/off
DARC	7175,0	1627	23	09	ERI	VOBME	A3E	under white noise jammer of ETH Govt.
DARC	7175,0	vt	26	09	ERI	VOBME	A3E	HOA music, heard 1731 - 1747

CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	Remarks and Comments
DARC	7176,0	vt	03	09	RUS	UiPTR	F1B	printer, location Kaliningrad
DARC	7177,0	vt	02	09		UiPTR	F1B	unid printer heard 1707 - 1801, S9+20dB
DARC	7180,0	0332	02	09	ERI	VOBME	A3E	Arabic px
DARC	7180,0	1715	14	09		UiBC	A3E	carrier S9, weak modulation
DARC	7185,0	vt	02	09	ERI	VOBME	A3E	Ar px heard 1707 - 1800 s/off with National Anthem "Yiritriya"
DARC	7185,0	1719	03	09	ERI	VOBME	A3E	HOA music, heard 1719 - 1802 s/off
DARC	7185,0	vt	03	09	ERI	VOBME	N0N	carrier 1610 - 1614 s/off
DARC	7185,0	1432	vd	09	ETH	Govt. Jam	JAM	white noise jammer
DARC	7185,0	1432	vd	09	ERI	VOBME	A3E	covered by white noise jammer
DARC	7186,0	2110	278	09	RUS	UiMUX	PSK2	AT-3004-D
DARC	7187,0	0123	21	09		UiMUX	PSK2	AT-3004-D
DARC	7188,0	1449	14	09		UiMUX	FSK8	ALE heard
	7189,7	vt	26	09	CLN	SLBC Sri Lanka	A3E	heard 0000 - 0228, typical music
DARC	7190,0	vt	12	09		UiBC	J3E-L	jingle of BC, Radio Prag?, heard 1220 - 1222
DARC	7190,0	0505	19	09	ERI	VOBME	A3E	under white noise jammer
DARC	7190,0	0505	19	09	ETH	ETH Govt Jammmer	JAM	white noise jammer
DARC	7190,0	1654	25	09	ERI	VOBME	A3E	BC under white noise jammer
DARC	7190,0	1654	25	09	ETH	Govt. Jam	JAM	white noise jammer covering VOBME
DARC	7197,0	2019	21	09		UiMOD	XXX	"noise" heard 7197 - 7200
DARC	7200,0	1630	03	09	SDN	R.Omdurm an	A3E	Ar px
DARC	7200,0	2009	15	09		UiPTR	F1B	reversals
DARC	7200,0	vt	16	09	SDN	R.Omdurm an	A3E	Ar px heard 1743 - 2010
DARC	7200,0	1635	17	09	ETH	R.Ethiopia	A3E	En px with western music
DARC	7200,0	1701	17	09	ETH	Ext. Serv. R. Ethiopia	A3E	1701: s/on French px, still on at 1654 - 1707: ann.: "This is the External Service of Radio Ethiopia, Box 654 Addis Ababa
DARC	7200,0	0240	19	09	SDN	R.Omdurm an	A3E	Ar voice, Ar music
DARC	7200,0	1622	19	09	ERI	VOBME	A3E	covered by white noise jammer
DARC	7200,0	1622	19	09	ETH	Govt. Jam	JAM	white noise jammer
DARC	7200,0	2005	23	09	SDN	R.Omdurm an	A3E	Ar px
DARC	7200,0	1607	vd	09	ETH	R.Ethiopia	A3E	En px
DARC	7200,0	1654	vd	09	ETH	R.Ethiopia	A3E	En px, ann: "This is the External Service of Radio Ethiopia", Box 654 Addis Ababa
DARC	7205,0	2000	dly	09		UiBC	A3E	French px, splattering down heavily till 7185
DARC	10101,0	1900	dly	09	Af	UiILL	J3E-U	African Tribal language, 1900, 2000
DARC	10115,0	2130	dly	09	E	UiILL	J3E-U	Spanish fishery
DARC	10121,5	vt	vd	09	MRC	UiILL	J3E-U	Moroccan fishery
DARC	10125,0	vt	vd	09	POR	UiILL	J3E-U	2 male persons in Portuguese voice
DARC	10131,0	2113	13	09	MRC	UiILL	J3E-U	male net in Arabic
DARC	10135,1	vt	vd	09		UiILL	J3E-U	unid pirates, unid language
DARC	10135,5	vt	vd	09		UiILL	J3E-U	unid pirates heard 2000 - 2100 UTC
DARC	10150,0	vt	vd	09	MRC	UiILL	J3E-U	Moroccan fishery
DARC	14024,0	vt	19	09	RUS	UiPTR	F1B	RUS Navy Kaliningrad, heard 1725 - 2024
DARC	14187,5	1652	14	09	E	UiILL	J3E	Spanish fishery with vocoder CRY-2001
DARC	14295,1	vt	dly	09	TJK	R.Tajikistan	A3E	"pumping" carrier, heard 0600 - 0830, 1300 - 1500
DARC	14321,5	1652	14	09	E	UiILL	J3E	Spanish fishery with vocoder CRY-2001
DARC	18126,0	vt	01	09	CUB	R.Habana Cuba	A3E	heard 1325-1500 s/off with Ntl. Anthem, found // 15230 - tx-er IM? - report DL5HAQ, also heard by DJ9KR "esta es Radio Habana Cuba"
DARC	21000,0	vt	vd	09	RUS	UiPTR	F1B	vocoder YAKTHA with inband synchro - DK2OM

CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	Remarks and Comments	
DARC	21010,0	vt	06	09		UiOTHR	FMCW	heard and reported by DG0JBJ, 1058 - 1147	
DARC	21090,0	vt	10	09		UiOTHR	FMCW	heard and reported by DG0JBJ, 0817 - 0928	
DARC	21096,0	vt	23	09	D	DA4XIQ	WSPR	heard 1706 - 1722, pirate who has been active for years in mode WSPR, says location is JN57LT, near Schongau	
DARC	21110,0	vt	10	09		UiOTHR	FMCW	heard and reported by DG0JBJ, 1110 - 1145	
DARC	21185,0	1440	15	09		UiOTHR	FMCW	s/off at 1440, report DJ9KR	
DARC	21200,0	vt	06	09		UiOTHR	FMCW	heard and reported by DG0JBJ, 0915 - 0948	
DARC	21230,0	vt	10	09		UiOTHR	FMCW	heard and reported by DG0JBJ, 1706 - 1710	
DARC	21290,0	vt	10	09		UiOTHR	FMCW	heard and reported by DG0JBJ, 1135 - 1205	
DARC	21320,0	vt	06	09		UiOTHR	FMCW	heard and reported by DG0JBJ, 1142 - 1200, mirror of 21370	
DARC	21330,0	vt	06	09		UiOTHR	FMCW	heard and reported by DG0JBJ, 1500 - 1640	
DARC	21370,0	vt	06	09		UiOTHR	FMCW	heard and reported by DG0JBJ, 1142 - 1200	
DARC	21375,0	vt	19	09		UiOTHR	FMCW	heard and reported by DG0JBJ	
DARC	21400,0	vt	19	09		UiOTHR	FMCW	heard and reported by DG0JBJ	
DARC	21410,0	vt	10	09		UiOTHR	FMCW	heard and reported by DG0JBJ, 1005 - 1010	
DARC	21410,4	0652	06	09		UiPTR	F1B	unid printer, harmonic 10705	
DARC	21420,0	vt	06	09		UiOTHR	FMCW	heard and reported by DG0JBJ, 1142 - 1200, mirror of 21370	
DARC	28130,0	vt	02	09		UiOTHR	FMCW	heard 1020-1210 - report DG0JBJ	
DARC	28340,0	vt	03	09		UiOTHR	FMCW	heard 0940-0945, 1615-1630 - report DG0JBJ	
DARC	28360,0	vt	04	09		UiOTHR	FMCW	heard and reported by DG0JBJ	
DARC	29100,0	vt	04	09		UiOTHR	FMCW	heard and reported by DG0JBJ	
DARC	29150,0	vt	03	09		UiOTHR	FMCW	heard 0940-1000 - report DG0JBJ	
DARC	29330,0	vt	04	09		UiOTHR	FMCW	heard and reported by DG0JBJ	
DARC	29380,0	vt	04	09		UiOTHR	FMCW	heard and reported by DG0JBJ	
DARC	29560,0	vt	04	09		UiOTHR	FMCW	heard and reported by DG0JBJ	

DARC 2 – Germany - DK2OM (Wolf)

PSE observe:

FSK transmissions -> center frequency between mark and space

PSK transmissions -> center frequency

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

voice traffic -> green

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

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	1812,0	vt	vd	09	POL		A3E			Polish “PIP” – 10 tones – navigation system - North-Poland – Baltic coast - POL Navy – legal operation (ITU footnote)
DK2OM	1876,8	ady	dly	09	G		PSK8	2400	2400	Stanag4285 - 1200 bps long - Scotland (legal)
DK2OM	1881,4	ady	dly	09	F		QPSK	100	100	BC-PSK – Radio Navigation – Nantes – France (legal)
DK2OM	1896,5	ady	dly	09	D		PSK8	2400	2400	Stanag4285 - 600 bps long - German Navy (legal)
DK2OM	3500,0	vt	dly	09	TUR	no ITU	FSK8	125	1750	ALE, “2015” “2016” “1020” “3010”- Turkish Red Crescent - legal
DK2OM	3500,0	2144	12	09	E		USB			Spanish fishery - also with vocoder CRY2001

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	3500,0	1907	28	09	HOL		USB			Dutch fishery
DK2OM	3500,5	1947	02	09	CIS		A3E			CIS pirates – unstable carrier
DK2OM	3500,7	2021	19	09	CIS		A3E			CIS pirates – unstable carrier
DK2OM	3502,0	2024	27	09	CIS		A3E			CIS pirates playing music
DK2OM	3503,5	vt	dly	09	G	no ITU	FSK8	125	1750	ALE – “XSS” “XPU” – British MIL Tascomm
DK2OM	3510,0	vt	dly	09	ALG	no ITU	FSK8	125	1750	ALE, “JE30” “PT30”
DK2OM	3511,3	1952	28	09	CIS		A3E			CIS pirates – unstable carrier
DK2OM	3511,5	1744	27	09	UKR		PSK2	120	2600	AT3004D – west of Vinnytsia
DK2OM	3515,0	2008	06	09	E		USB			Spanish fishery
DK2OM	3515,0	2212	12	09	HOL		USB			Dutch fishery
DK2OM	3515,6	2017	02	09	CIS		A3E			CIS pirates – unstable carrier
DK2OM	3518,0	1936	17	09						frequency hopper
DK2OM	3519,0	1950	06	09	DNK		PSK4	75	5860	Link11-CLEW – U/LSB – aerea of Skagen
DK2OM	3520,2	1959	14	09	CIS		A3E			CIS pirates
DK2OM	3521,0	1933	04	09	I		USB			Italian fishery
DK2OM	3526,0	2140	19	09	RUS		PSK2	120	2600	AT3004D – area of Velikije Luki
DK2OM	3527,0	2145	09	09	RUS		F1B	50	200	Severomorsk
DK2OM	3530,0	2018	14	09	E		USB			Spanish fishery
DK2OM	3532,0	vt	dly	09	ALG	no ITU	FSK8	125	1750	ALE, “UN3” “VQ30”
DK2OM	3533,0	vt	dly	09	E	no ITU	FSK8	125	1750	ALE, “TYBBI” “TYVCI” “TCS” “TYVV1” - Spanish Guardia Civil
DK2OM	3533,8	1953	04	09	F		PSK4	75	2300	Link11-CLEW – west of Brest
DK2OM	3535,0	1949	02	09	G		USB			UK fishery
DK2OM	3536,6	2018	19	09	ISR		PSK4	75	2250	MIL188-110A hybrid modem
DK2OM	3541,0	1838	03	09	BLR		F1B	75	200	Minsk
DK2OM	3544,0	2001	14	09			F1B	75	250	Kaliningrad
DK2OM	3545,0	vt	dly	09	ALG	no ITU	FSK8	125	1750	ALE, “FL49” “FL57” “PT50” - ALG MIL + voice traffic USB and scrambler
DK2OM	3550,0	0630	dly	09	F		A3E			French amateurs not respecting bandplans
DK2OM	3550,0	1937	03	09	RUS		PSK2	120	2600	AT3004D – Russin ship, Black Sea
DK2OM	3552,0	2122	10	09	RUS		F1B	50	250	Severomorsk – also 27.09.12 at 2020 utc
DK2OM	3552,0	2143	08	09						frequency hopper
DK2OM	3553,8	ady	dly	09	TUR		PSK8	2400	2400	Stanag4285 – TUR MIL - Ankara
DK2OM	3558,0	vt	dly	09			FSK8	125	1750	ALE, “403”
DK2OM	3564,0	2023	07	09	E		USB			Spanish fishery
DK2OM	3570,0	2136	11	09	HOL		USB			Dutch fishery
DK2OM	3570,0	1957	20	09	RUS		PSK2	120	2600	AT3004D – submode idle - Kaliningrad
DK2OM	3578,0	1932	22	09	RUS		PSK2	120	2600	AT3004D – area of Smolensk
DK2OM	3585,0	1700	dly	09	TWN	HLL	F1C			120 rpm, IOC 576, Wxfax - legal!
DK2OM	3587,0	vt	dly	09	E	no ITU	FSK8	125	1750	ALE, “TVV” “TXX” - Spanish Guardia Civil
DK2OM	3588,0	1936	18	09	RUS		PSK2	120	2600	AT3004D - Moscow
DK2OM	3590,0	vt	dly	09	PAK	no ITU	FSK8	125	1750	ALE, “KW” “ZULFIQUARI” “KHAIBAR” “SAIF1” “NRS” - Pakistan Navy
DK2OM	3590,0	vt	vd	09	E		USB			Spanish fishery with vocoder CRY2001 - daily
DK2OM	3590,0	vt	vd	09	E		USB			Spanish fishery – 1800 – 2200 utc - daily
DK2OM	3590,0	1821	18	09	HOL		USB			Dutch fishery
DK2OM	3595,0	vt	dly	09	D	no ITU	FSK8	125	1750	ALE, „ZLST“ „ZPRI“ „ZSHO“ „ZBOR“ „ZEMD“ „ZHEL“ „ZKNI“ „ZBOR“ „BPLEZS“ German customs – North-Germany
DK2OM	3596,0	vt	dly	09	HRV	9A0ALE	FSK8	125	1750	Croatian emergency ALE-net --- for info!
DK2OM	3596,0	1936	28	09	RUS		PSK2	120	2600	AT3004D - Kaliningrad

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	3596,6	1935	16	09			PSK8	2400	2400	Link11 - SLEW
DK2OM	3601,0	vt	vd	09	D	DA0EC	PSK8	2000	2000	RFSM 8000 – amateur emergency net - Berlin - legal operation - just for info!!!
DK2OM	3602,0	1750	22	09	RUS		PSK2	120	2600	AT3004D - Kaliningrad
DK2OM	3602,5	vt	dly	09	AUT	OE9XRK	PSK2/4	1800	1800	Pactor4 – Mailbox OE9XRK – just for info!
DK2OM	3603,0	vt	dly	09	ALG	no ITU	FSK8	125	1750	ALE, “PT01JL94” “JL05JL94”
DK2OM	3610,0	vt	dly	09	D		PSK8	200	500	German APRS Net in Robust Packet - just for info!
DK2OM	3617,0	vt	dly	09	HRV	9A5EX	FSK8	125	1750	ALE, “9A5EX1P” – HAM-ALE - just for info
DK2OM	3622,5	1800	dly	09	J	JMH	F1C			Tokyo Meteo – 120 rpm – IOC576 – daily, legal!!!
DK2OM	3624,0	1725	21	09	RUS		F1B	75	200	east of Moscow
DK2OM	3626,0	vt	dly	09	HRV	9A5EX	FSK8	125	1750	ALE, “9A5EX” – just for info
DK2OM	3660,0	vt	dly	09	ALG	no ITU	FSK8	125	1750	ALE, “UN20” XT20” - Algerian MIL
DK2OM	3751,5	vt	dly	09	POL		FSK8	125	1750	ALE, “LA7” “MI3”
DK2OM	3756,0	ady	dly	09	UKR		A3E			UKR – pip – 10 tones – navigation system
DK2OM	3761,5	vt	dly	09	POL	no ITU	FSK8	125	1750	ALE, “NI9” “AB2” – Polish military
DK2OM	3772,8	1710	21	09	BEL		PSK8	2400	2400	Stanag4285 – 600 bps long – Antwerpen - daily
DK2OM	3782,0	ady	dly	09	POR	CTP	F1B	75	850	POR Navy headquarter Lisbon
DK2OM	7000,0	ady	dly	09	INS		U/LSB			Indonesian pirates in USB and LSB – every evening audible in Europe – at 1000 utc audible in West Canada
DK2OM	7000,0	1938	01	09	I		LSB			Italian pirates – “Angelo”
DK2OM	7000,0	1830	03	09			USB			male persons in Arabic voice, also 04.09.12 at 1915 utc
DK2OM	7000,0	1800	07	09	RUS		PSK2	120	2600	AT3004D – Kaliningrad – also: 18.09.12 at 1500 utc – pilotone at 7001.3 kHz !
DK2OM	7000,0	0948	12	09						frequency hopper
DK2OM	7000,0	1928	27	09	MRC		USB			Moroccan fishery
DK2OM	7001,5	2157	02	09	ALG		PSK4	62.5	1750	Clover2000 – South Algeria
DK2OM	7002,0	1835	03	09			USB			male persons in Arabic voice
DK2OM	7006,0	1542	12	09	UKR		F1B	81	250	Kiev
DK2OM	7010,0	1548	18	09	RUS		PSK2	120	2600	AT3004D - Moscow
DK2OM	7013,0	1520	18	09						frequency hopper
DK2OM	7016,0	1502	18	09	RUS		F1B	75	250	Kaliningrad – idle: 98 Bd – also: 23.09.12 at 1910
DK2OM	7020,0	1059	16	09	FEa	Lima Zero	LSB			Far East net in Italian voice, not audible in Europe – only via remote Japan, Australia and California (USA) and South Africa – daily!
DK2OM	7022,0	1635	12	09	RUS		PSK2	120	2600	AT3004D - Moscow
DK2OM	7031,7	1514	05	09	CHN		PSK8	2400	2400	MIL-188-110A variant – 600 bps short – 7031.69 kHz center
DK2OM	7032,0	1902	09	09	RUS		PSK2	120	2600	AT3004D – Penza - daily
DK2OM	7034,0	2032	27	09	CHN		FMCW		10k	Chinese OTH Radar – 66.66 sps – 7.7 sec bursts – even audible in Germany
DK2OM	7038,7	ady	dly	09	UKR	D	A1A			Cluster beacon – Sevastopol RUS Navy – “RCV”
DK2OM	7038,8	ady	dly	09	RUS	P	A1A			Cluster beacon – Kaliningrad RUS Navy – “RMP”
DK2OM	7038,9	ady	dly	09	RUS	S	A1A			Cluster beacon – Severomorsk RUS Navy – „RIT“
DK2OM	7039,0	ady	dly	09	RUS	C	A1A			Cluster beacon - Moscow RUS Navy - “RIW”
DK2OM	7039,1	vt	dly	09	KGZ	A	A1A			Cluster beacon – Bishkek RUS Navy – “RJH25”
DK2OM	7039,2	---	---	09	RUS	L	A1A			Cluster beacon – St. Peterburg

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										“RJC66” – not observed in September
DK2OM	7039,2	ady	dly	09	RUS	F	A1A			Cluster beacon - Vladivostok RUS Navy - “RJS”
DK2OM	7039,3	vt	dly	09	RUS	K	A1A			Cluster beacon - Petropavlovsk Kamchatskiy - RUS Navy - Pacific fleet - “RCC”
DK2OM	7039,4	vt	dly	09	RUS	M	A1A			Cluster beacon – Magadan RUS Navy – „RTS“
DK2OM	7040,0	vt	dly	09	F	F6BAZ	FSK8	125	1750	ALE, “F6BAZ” – just for info
DK2OM	7040,5	vt	dly	09	HRV	9A5EX	FSK8	125	1750	ALE, “9A5EX” - just for info!
DK2OM	7045,5	1804	24	09	UKR		PSK2	120	2600	AT3004D – RUS Navy Sevastopol
DK2OM	7048,9	1746	04	09	RUS		OFDM	35.6	2800	OFDM60 – area of Stavropol
DK2OM	7049,5	vt	dly	09	F	F4BXW1	FSK8	125	1750	ALE, “F4BXW1” - just for info!
DK2OM	7054,0	vt	dly	09	RUS		F1B	50	100/200	RUS Navy - Moscow
DK2OM	7060,0	0647	06	09						frequency hopper
DK2OM	7061,0	0640	06	09	RUS		PSK2	120	2600	Kaliningrad
DK2OM	7065,0	vt	dly	09	HRV	9A5EX	FSK8	125	1750	ALE, “9A5EX” - just for info!
DK2OM	7072,0	1853	28	09	RUS		PSK2	120	2600	AT3004D – idle - Moscow
DK2OM	7080,0	1808	03	09	RUS		F1B	50	250	Kaliningrad
DK2OM	7089,8	0722	05	09	TUR		PSK8	2400	2400	Link11 - SLEW – aircraft – Turkish south coast – daily, various times
DK2OM	7090,5	2134	18	09	RUS		PSK2	120	2600	AT3004D – Baltic Sea, ship north of Stockholm
DK2OM	7099,5	vt	dly	09	HRV	9A0ZG	FSK8	125	1750	ALE, “9A0ZG” - just for info
DK2OM	7102,0	vt	dly	09	HRV	9A3COL	FSK8	125	1750	ALE, “9A3COL” – just for info!
DK2OM	7102,0	1603	01	09	SUI		FSK8	125	1750	ALE, “HB9MHB” – just for info!
DK2OM	7110,5	vt	dly	09	HRV	9A0ALE	FSK8	125	1750	ALE, amateur net, just for info!
DK2OM	7114,0	1523	03	09	RUS	EV, ST	F1B	50	200	Kaliningrad
DK2OM	7116,0	1758	24	09						frequency hopper
DK2OM	7117,0	1839	02	09	RUS		F1B	100	500/1000	idle - Moscow – daily, every evening – even audible in Japan and Australia
DK2OM	7119,4	1530	05	09	CHN		PSK4	60	2300	Chinese PSK-system with 4 introsignals
DK2OM	7137,0	1723	05	09	RUS		F1B	50	200	area of Velikiye Luki
DK2OM	7142,0	1733	07	09	UKR		PSK2	120	2600	AT3004D – east of Kiev
DK2OM	7162,0	1359	05	09	RUS		F1B	75	250	Kaliningrad
DK2OM	7164,0	2151	29	09						frequency hopper
DK2OM	7176,0	0818	02	09	RUS		F1B	75	250	Kaliningrad – also: 03.09.12 at 1538 utc
DK2OM	7180,0	vt	dly	09	MRC	no ITU	FSK8	125	1750	ALE, “9201” “6350” “RC1”
DK2OM	7185,5	vt	dly	09	F	F4BXW	FSK8	125	1750	ALE, “F4BXW” - just for info!
DK2OM	7186,0	1900	26	09	RUS		PSK2	120	2600	AT3004D - Severomorsk
DK2OM	7192,5	2153	29	09	RUS		PSK4	120	2600	AT3104D - Severomorsk
DK2OM	7197,0	vt	vd	09			FSK8	125	1750	ALE,
DK2OM	7198,5	1945	dly	09	RUS		PSK2	64	3000	contains several PSK2 channels with 64 Bd and 64 Hz shift – 7197 – 7200 kHz – together with VOR on 7215 kHz
DK2OM	10101,0	2156	30	09						frequency hopper
DK2OM	10106,0	vt	dly	09	ALG	no ITU	FSK8	125	1750	ALE, “OG100A” “OR200B” - Algerian MIL
DK2OM	10108,0	vt	vd	09	RUS		F1B	50	200	area of Moscow – also: 28.08.12 at 1453 utc
DK2OM	10110,0	vt	vd	09	SNG		FSK8	125	1750	ALE, “CN6” “68” – Singapore Navy - Changi Naval Base with frigate “RSS Formidable”
DK2OM	10112,0	ady	dly	09	TUR		PSK8	2400	2400	Stanag4285 – 600 bps long – TUR MIL - Izmir
DK2OM	10115,0	vt	dly	09		no ITU	FSK8	125	1750	ALE, “2001”, “2011” “2005”
DK2OM	10120,0	2130	06	09		no ITU	FSK8	125	1750	ALE-LSB, “5001”
DK2OM	10120,0	vt	dly	09		no ITU	FSK8	125	1750	ALE, “8001” “9067”
DK2OM	10121,0	1440	18	09	RUS		F1B	75	250	area of Smolensk
DK2OM	10123,0	0720	15	09	RUS		F1B	75	200	Kaliningrad

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	10123,0	1045	17	09	RUS		PSK2	120	2600	AT3004D - Chita
DK2OM	10126,2	1843	28	09	FEa		USB			Far East pirates
DK2OM	10130,0	vt	vd	09			FSK8	125	1750	Thales 3000
DK2OM	10130,0	1631	21	09			FSK8	125	1750	ALE, "DL5" "084"
DK2OM	10130,0	vt	dly	09	USA		F1B	50	850	USA - Maine
DK2OM	10134,0	vt	dly	09	ALG	no ITU	FSK8	125	1750	ALE, "CM4" "COF" - Algerian Airforce
DK2OM	10136,0	1847	29	09						frequency hopper
DK2OM	10136,5	vt	dly	09	F	F4BXW	FSK8	125	1750	ALE, "F4BXW" - just for info!
DK2OM	10140,0	0920	08	09	CYP		FMCW		20k	OTH Radar Cyprus – 50 sps
DK2OM	10142,5	vt	dly	09	HRV	9A5EX	FSK8	125	1750	ALE, "9A5EX" – just for info!
DK2OM	10145,5	1702	22	09	SUI		FSK8	125	1750	ALE, "HB9MHB" – just for info!
DK2OM	10145,5	vt	dly	09	HRV	9A5EX	FSK8	125	1750	ALE, 9A5EX, just for info!
DK2OM	10146,0	vt	dly	09	ALG		FSK8	125	1750	ALE, "ORG" "CM4" – ALG Airforce
DK2OM	10150,0	vt	dly	09		no ITU	FSK8	125	1750	ALE, "CFA" "CTA"
DK2OM	10150,0	2345	15	09	TUR		FMCW		20k	OTH Radar South East Turkey, 50 sps
DK2OM	10150,0	1845	28	09	E		USB			Spanish fishery
DK2OM	14000,0	1358	20	09	FEa		USB			Far East pirates
DK2OM	14000,0	1958	18	09	E?		USB			pirates in Spanish voice
DK2OM	14008,0	0824	02	09	RUS		F1B	50	500	Moscow
DK2OM	14010,0	2115	17	09						frequency hopper
DK2OM	14024,0	1457	19	09	RUS		F1B	75	500	Kaliningrad
DK2OM	14031,0	0620	13	09	RUS		PSK2	120	2600	AT3004D - Kaliningrad
DK2OM	14037,0	vt	dly	09	CHN	no ITU	FSK8	125	1750	ALE, "313" "132" "932"
DK2OM	14040,0	2320	15	09	CHL		USB			base station with ship in Pacific Ocean in Spanish voice
DK2OM	14060,0	0734	01	09	ISR		FSK8	125	1750	ALE, "AAA" "AA1"
DK2OM	14104,0	vt	dly	09	CHN		FSK8	125	1750	ALE, "A98" "L06"
DK2OM	14106,0	vt	dly	09			FSK8	125	1750	ALE, "161"
DK2OM	14109,0	vt	dly	09	F	F4BXW	FSK8	1250	1750	ALE, "F4BXW" - just for info
DK2OM	14109,0	vt	dly	09	S	SM5RVH	FSK8	125	1750	ALE, "SM5RVH" – just for info!
DK2OM	14155,0	1429	26	09	CHN		FMCW		10k	Chinese OTHR – 45.45 sps – 3.7 sec bursts
DK2OM	14180,0	0832	02	09	UKR		F1B	50	250	RUS Navy Sevastopol – also: 20.09.12 at 0736 utc
DK2OM	14192,0	vt	dly	09	RUS		F1B	50	200 /500	RUS Navy Kaliningrad
DK2OM	14204,0	1000	04	09	RUS		OFDM	35.6	2800	OFDM60 - Moscow
DK2OM	14210,0	2144	11	09	CHN		FMCW		10k	Chinese OTH Radar – 47.6 sps – bursts of 5.3 sec
DK2OM	14240,0	0636	18	09	RUS		50	250		north east of Smolensk
DK2OM	14242,0	1055	14	09	RUS		PSK2	120	2600	AT3004D – area of Smolensk
DK2OM	14242,0	1413	24	09	RUS		PSK4	120	2600	AT3104D – Velikiye Luki
DK2OM	14247,0	vt	dly	09	E	no ITU	FSK8	125	1750	ALE, "151" "250"
DK2OM	14295,1	ady	dly	09	TJK		A3E			3 rd from Radio Tajik on 4765 kHz
DK2OM	14302,0	0716	27	09	RUS		PSK4	120	2600	AT3004D – submode idle – and traffic
DK2OM	14316,0	vt	dly	09	?	no ITU	FSK8	125	1750	ALE, "601" "611"
DK2OM	14325,1	vt	vd	09	FEa	no ITU	FSK8	125	1750	ALE, "776" "699" "475"
DK2OM	14331,0	vt	dly	09			FSK8	125	1750	ALE, "417" "663"
DK2OM	14341,0	vt	dly	09	I		FSK8	125	1750	ALE, "20" - area of Rome
DK2OM	14341,6	1356	04	09	CHN		PSK8	2400	2400	MIL-188-110A variant – daily, various times
DK2OM	14343,0	vt	dly	09	CHN	no ITU	FSK8	125	1750	ALE, "L06" "A98"
DK2OM	14350,0	vt	dly	09	TWN		FSK8	125	1750	ALE-LSB, "ABJECT, AFFECT, APPLEF" – Taiwanese Navy
DK2OM	18100,0	1331	16	09						frequency hopper
DK2OM	18100,0	1938	19	09	?		USB			unid pirates
DK2OM	18100,0	0450	16	09	TUR		FMCW		20k	OTH Radar South East Turkey, 50 sps
DK2OM	18107,0	0730	03	09	RUS		F1B	50	200	RUS MIL Moscow
DK2OM	18165,0	0900	07	09	CYP		FMCW		20k	OTHR CYP with 50 sps – long lasting

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	18170,0	0925	16	09	CYP		FMCW		20k	OTH Radar Cyprus – 50 sps
DK2OM	20998,5	1905	16	09	ARG		USB			pirates from Argentina – splattering up to 21001 kHz
DK2OM	21000,0	2000	03	09	B		USB			Brazilian pirates
DK2OM	21000,0	1416	17	09	FEa		USB			Far East pirates – Indonesia?
DK2OM	21000,0	1030	18	09	MEa		FMCW			OTHR – 872 sps
DK2OM	21000,0	1125	27	09	SDN		USB			SDN MFA calling emba Yemen for Pactor 1 traffic , whistling male persons
DK2OM	21001,5	0705	02	09	RUS		F1B	100	150	vocoder Yakhta inband synchro, Nizhny Tagil
DK2OM	21002,1	1126	27	09	SDN		F1B	100	170	Pactor 1 encrypted – MFA Sudan – Khartoum with emba Yemen
DK2OM	21005,0	0915	06	09	RUS		PSK4	1200	1200	Nizhniy Tagil
DK2OM	21008,0	1353	19	09						frequency hopper
DK2OM	21026,8	1950	21	09	G		PSK8	2400	2400	Stanag4285 – Ascension Island – also: 26.09.12 at 0855 utc
DK2OM	21089,5	vt	dly	09	HRV	9A5EX	FSK8	125	1750	ALE, “9A5EX” - just for info!
DK2OM	21096,0	vt	dly	09	POR	CT2GOY	FSK8	125	1750	ALE, “CT2GOY” – just for info
DK2OM	21096,0	vt	dly	09	INS	YD00XH	FSK8	125	1750	ALE, amateurs “YD00XH3” “YD00XH7” – just for info!
DK2OM	21100,0	0745	12	09	CYP		FMCW		20k	OTH Radar Cyprus, 50 sps
DK2OM	21101,0	2107	11	09	MRC		USB			Moroccan fishery – also: 13.09.12 at 1930 utc
DK2OM	21103,0	1046	16	09						frequency hopper
DK2OM	21110,0	0913	10	09	TUR		FMCW		20k	OTH Radar Turkey, 50 sps
DK2OM	21110,0	0718	14	09						frequency hopper
DK2OM	21116,0	vt	dly	09	HRV	9A0ST	FSK8	1250	1750	ALE, “9A0ST” “9A5EX” – just for info!
DK2OM	21143,0	1012	07	09	CHN		FMCW		10k	Chinese OTHR – 45.5 sps - burst
DK2OM	21145,0	vt	dly	09	MRC		FSK8	125	1750	ALE, “B301”, “C3”, “IR4” “T4” “E4”
DK2OM	21150,0	1140	15	09	TUR		FMCW		20k	OTH Radar West Turkey – 50 sps
DK2OM	21150,0	1356	17	09						frequency hopper
DK2OM	21150,0	1419	17	09	RUS		USB			RUS MIL - announcements
DK2OM	21152,0	0727	17	09	RUS		PSK2	120	2600	AT3004D - Volgograd
DK2OM	21155,0	0834	21	09	CHN		FMCW		10k	Chinese OTH Radar – 47.6 sps – 5.4 sec bursts
DK2OM	21202,0	1348	04	09	AUS		FMCW		20k	Australian OTH Radar JORN, different sps – 1.3 sec bursts
DK2OM	21210,0	1406	11	09	AUS		FMCW		20k	Australian OTH Radar JORN – 7 sps – bursts of 18.5 sec duration every 4 minutes – also 14.09.12 at 0710 utc
DK2OM	21210,0	1410	13	09	TUR		FMCW		20k	OTH Radar West-Turkey, 50 sps
DK2OM	21233,5	0940	06	09	CHN		PSK4	75	2240	PRC4+4
DK2OM	21235,0	0942	06	09	AUS		FMCW		10k	Australian OTH Radar JORN – 7 sps
DK2OM	21241,8	2146	24	09	G		PSK8	2400	2400	Stanag4285 – Ascension Island
DK2OM	21295,0	0946	04	09	AUS		FMCW		20k	Australian OTH Radar JORN, 50 sps – 1.3 sec bursts
DK2OM	21295,0	0738	05	09	AUS					Australian OTH Radar JORN, 29.4 sps – 1.3 sec bursts
DK2OM	21300,0	0942	04	09	RUS		F1B	100	2000	harmonic from 5325 kHz (500 Hz shift) – area of Moscow - daily
DK2OM	21330,0	vt	dly	09	CAN		FSK8	125	1750	ALE, “VE3OUV” - just for info
DK2OM	21330,0	0930	16	09	TUR		FMCW		20k	OTH Radar West Turkey – 50 sps
DK2OM	21344,0	0932	26	09	AZE		PSK2	120	2600	AT3004D – area of Baku
DK2OM	21351,0	1007	07	09	CHN		FMCW		10k	Chinese OTHR – 41.7 sps - burst
DK2OM	21390,0	1033	05	09	TUR		FMCW		20k	OTH Radar South East Turkey, 50 sps
DK2OM	21390,0	0708	23	09	CHN		FMCW		10k	OTH Radar China – 66.7 sps – 3.9 sec bursts – every 3 sec
DK2OM	21392,0	0800	16	09	RUS		F3E			RUS taxi (21391.880 kHz)

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										carrier) – area of Krasnodar
DK2OM	21400,0	1040	16	09	CYP		FMCW		20k	OTH Radar Cyprus – 50 sps
DK2OM	21400,0	0639	25	09	RUS		F1B	50	2000	harmonic from 5350 kHz – area of Moscow
DK2OM	21404,0	1010	04	09					4000	
DK2OM	21409,5	0642	18	09	RUS		F1B	100	2000	CIS14 – harmonic from 10704.75 - Jekaterinburg
DK2OM	21410,0	1003	10	09	CYP		FMCW		20k	OTH Radar Cyprus – 25 sps
DK2OM	21424,0	0915	18	09	RUS		F1B	50	400	harmonic from 10712 kHz (50 Bd, 200 Hz shift) – area of Novgorod
DK2OM	21434,0	1017	07	09	CHN		FMCW		10k	Chinese OTHR – 40.0 sps - burst
DK2OM	21438,0	vt	dly	09	UKR	RCV	A1A			RIP90 de RCV - RUS Navy base Sevastopol
DK2OM	21440,8	1109	18	09	AFG		PSK8	2400	2400	Link11-SLEW
DK2OM	21447,0	1006	10	09	CHN		A3E			splatter from Chinese music jammer on 21460 kHz
DK2OM	24890,0	0815	23	09	CYP		FMCW		20k	OTH Radar Cyprus – 50 sps
DK2OM	24893,0	0805	22	09						frequency hopper
DK2OM	24901,0	0858	14	09						frequency hopper
DK2OM	24919,0	1451	25	09						frequency hopper
DK2OM	25000,0	ady	dly	09	FIN		A3E			time signal Helsinki – just for info – carrier on 25000 – dots on 25001 and 24999
DK2OM	28000,0	vt	dly	09	B		A3E			28000 – 28325 B razilian CBers
DK2OM	28000,0	0917	14	09	CIS		F3E			CIS taxi
DK2OM	28000,0	1039	21	09	FEa		F3E			Far East pirates
DK2OM	28000,0	1640	29	09						frequency hopper
DK2OM	28005,0	ady	dly	09	UKR		F3E			UKR taxi – disturbing NH8S
DK2OM	28005,0	vt	dly	09	B		A3E			Brazilian CBers
DK2OM	28015,0	vt	dly	09	B		A3E			Brazilian CBers
DK2OM	28015,0	0932	01	09	CIS		F3E			CIS taxi
DK2OM	28029,0	1712	25	09	MRC		USB			Moroccan fishery
DK2OM	28034,4	1856	07	09	B		USB			Brazilian CBers
DK2OM	28035,0	vt	dly	09	B		A3E			Brazilian CBers
DK2OM	28035,0	1035	21	09	FEa		F3E			Far East pirates
DK2OM	28045,0	1725	29	09	B		A3E			Brazilian CBers
DK2OM	28055,0	vt	dly	09	RUS		F3E			RUS taxi - Moscow
DK2OM	28055,7	1745	28	09			F1B	1200	1200	DPRK-FSK1200 – 200 deg. from DL – North Korean diplo traffic – 28055.673 kHz
DK2OM	28065,0	vt	dly	09	B		A3E			Brazilian CBers - daily
DK2OM	28065,0	0857	11	09	CIS		F3E			CIS taxi
DK2OM	28075,0	vt	dly	09	B		A3E			Brazilian CBers
DK2OM	28075,0	0835	14	09	CIS		F3E			CIS taxi
DK2OM	28080,0	1849	14	09	I		USB			Italian pirates
DK2OM	28085,0	vt	dly	09	B		A3E			Brazilian CBers
DK2OM	28085,0	0914	11	09	CIS		F3E			CIS taxi - daily
DK2OM	28090,0	0905	06	09	CIS		F3E			CIS taxi
DK2OM	28095,0	vt	dly	09	B		A3E			Brazilian CBers
DK2OM	28100,0	1808	15	09	POR		F1B	51	320	F1B bursts - 28100.010 kHz - west of Lisbon
DK2OM	28100,1	1805	15	09	POR		F1B	51	320	F1B bursts - 28100.100 kHz - west of Lisbon
DK2OM	28100,2	1742	15	09	POR		F1B	51	320	F1B bursts - 28100.160 kHz - west of Lisbon
DK2OM	28100,8	1802	15	09	POR		F1B	51	320	F1B bursts - 28100.800 kHz - west of Lisbon
DK2OM	28102,0	1848	15	09	POR		F1B	51	320	F1B bursts – 28102.000 kHz - west of Lisbon
DK2OM	28105,0	1850	01	09	B		A3E			Brazilian CBers
DK2OM	28105,0	vt	dly	09	RUS		F3E			taxi - Moscow
DK2OM	28110,0	1851	14	09	I		USB			Italian pirates
DK2OM	28115,0	vt	dly	09	B		A3E			Brazilian CBers - daily
DK2OM	28115,0	vt	dly	09	UKR		F3E			taxi - Sevastopol
DK2OM	28120,0	1606	24	09						frequency hopper
DK2OM	28125,0	vt	dly	09	B		A3E			Brazilian CBers

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	28125,0	1033	23	09	CIS		F3E			CIS CBers
DK2OM	28125,0	1039	21	09	FEa		F3E			Far East pirates
DK2OM	28135,0	1053	02	09	MEa		FMCW		44k	OTH Radar – 44 kHz wide – 307 and 872 sps
DK2OM	28135,0	1417	27	09	CIS		F3E			CIS taxi
DK2OM	28140,0	0909	01	09	CIS		USB			CIS CBers
DK2OM	28145,0	vt	dly	09	B		A3E			Brazilian CBers - daily
DK2OM	28145,0	vt	dly	09	RUS		F3E			taxi – Rostov na Donu
DK2OM	28145,0	0712	19	09	CIS		F3E			CIS taxi
DK2OM	28150,0	1101	25	09	CIS		F3E			CIS taxi
DK2OM	28155,0	1407	01	09	CIS		F3E			CIS taxi
DK2OM	28160,0	0832	29	09	CIS		F3E			CIS taxi
DK2OM	28165,0	1519	26	09	CIS		F3E			CIS taxi
DK2OM	28170,0	0856	11	09	CIS		F3E			CIS taxi
DK2OM	28175,0	0944	26	09	CIS		F3E			CIS taxi
DK2OM	28180,0	0658	25	09	CIS		F3E			CIS taxi
DK2OM	28181,0	1853	14	09	I		USB			Italian pirates
DK2OM	28185,0	0805	26	09	CIS		F3E			CIS taxi
DK2OM	28195,0	1213	14	09	CIS		F3E			CIS taxi
DK2OM	28200,0	1415	27	09	CIS		F3E			CIS taxi
DK2OM	28205,0	1845	08	09	B		A3E			Brazilian CBers
DK2OM	28205,0	1000	27	09	CIS		F3E			CIS taxi
DK2OM	28210,0	vt	dly	09	UKR		F3E			taxi - Dnepropetrovsk
DK2OM	28215,0	0959	27	09	CIS		F3E			CIS taxi
DK2OM	28215,0	vt	dly	09	B		A3E			Brazilian CBers
DK2OM	28225,0	1342	27	09	CIS		F3E			CIS taxi
DK2OM	28235,0	vt	dly	09	B		A3E			Brazilian CBers
DK2OM	28235,0	1431	22	09	CIS		F3E			CIS taxi
DK2OM	28245,0	1200	14	09	CIS		F3E			CIS taxi
DK2OM	28245,0	1727	29	09	B		A3E			Brazilian CBers
DK2OM	28250,0	1401	27	09	CIS		F3E			CIS taxi
DK2OM	28255,0	vt	dly	09	KAZ		F3E			taxi – Almati
DK2OM	28255,0	vt	dly	09	B		A3E			Brazilian CBers
DK2OM	28265,0	1006	01	09	RUS		F3E			RUS taxi
DK2OM	28275,0	vt	dly	09	B		A3E			Brazilian CBers
DK2OM	28275,0	0945	12	09	CIS		F3E			CIS taxi
DK2OM	28285,0	vt	dly	09	B		A3E			Brazilian CBers
DK2OM	28285,0	vt	dly	09	RUS		F3E			taxi – Rostov na Donu
DK2OM	28295,0	1905	01	09	B		A3E			Brazilian CBers
DK2OM	28295,0	0930	22	09	CIS		F3E			CIS taxi
DK2OM	28300,0	0944	24	09	CIS		F3E			CIS taxi
DK2OM	28305,0	vt	dly	09	B		A3E			Brazilian CBers - daily
DK2OM	28305,0	0812	12	09	RUS		F3E			CIS taxi - Krasnodar
DK2OM	28315,0	vt	dly	09	B		A3E			Brazilian CBers
DK2OM	28325,0	0855	11	09	CIS		F3E			CIS taxi
DK2OM	28330,0	0940	03	09	TUR		FMCW		20k	OTH Radar West-Turkey, 50 sps
DK2OM	28335,0	0958	12	09	FEa		A3E			Far East pirates
DK2OM	28365,0	1017	24	09	CIS		F3E			CIS taxi - daily
DK2OM	28380,0	0720	24	09	CIS		F3E			CIS taxi
DK2OM	28385,0	1019	25	09	CIS		F3E			CIS taxi
DK2OM	28390,0	vt	dly	09	RUS		F3E			taxi - Vladikavkaz
DK2OM	28405,0	0635	01	09	RUS		USB			vocoder Yakhta, Nizhni Tagil
DK2OM	28406,5	0635	01	09	RUS		F1B	100	150	vocoder Yakhta inband synchro, Nizhni Tagil
DK2OM	28415,0	0853	19	09	FEa		A3E			Far East pirates
DK2OM	28505,0	1050	13	09	FEa		A3E			Far East pirates
DK2OM	28555,0	1050	13	09	FEa		A3E			Far East pirates
DK2OM	28555,0	0945	24	09	CIS		F3E			CIS taxi
DK2OM	28575,0	0945	30	09	CIS		F3E			CIS taxi
DK2OM	28585,0	1049	13	09	FEa		A3E			Far East pirates
DK2OM	28595,0	1355	29	09	CIS		F3E			CIS taxi
DK2OM	28605,0	1427	29	09	CIS		F3E			CIS taxi
DK2OM	28625,0	0722	24	09	CIS		F3E			CIS taxi
DK2OM	28635,0	0728	24	09	CIS		F3E			CIS taxi
DK2OM	28645,0	1035	24	09	CIS		F3E			CIS taxi
DK2OM	28650,0	0943	30	09	CIS		F3E			CIS taxi
DK2OM	28655,0	0944	30	09	CIS		F3E			CIS taxi

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	28665,0	vt	dly	09	CIS		F3E			CIS taxi
DK2OM	28665,0	1048	13	09	FEA		A3E			Far East pirates
DK2OM	28675,0	vt	dly	09	RUS		F3E			taxi - Krasnodar
DK2OM	28675,0	0850	19	09	FEa		A3E			Far East pirates
DK2OM	28695,0	0956	01	09	CIS		F3E			CIS taxi
DK2OM	28695,0	1047	13	09	FEa		A3E			Far East pirates
DK2OM	28700,0	0640	01	09	MEa		FMCW		44k	OTH Radar – 44 kHz wide – 872 and 307 sps – 5.9 sec bursts
DK2OM	28705,0	1046	13	09	FEa		A3E			Far East pirates
DK2OM	28705,0	0910	25	09	FEa		F3E			Far East pirates
DK2OM	28715,0	0956	12	09	FEa		A3E			Far East pirates
DK2OM	28725,0	0955	01	09	CIS		F3E			CIS taxi
DK2OM	28725,0	1044	13	09	FEa		A3E			Far East pirates
DK2OM	28735,0	1545	28	09	CIS		F3E			CIS taxi
DK2OM	28740,0	0934	01	09	MEa		FMCW			OTH Radar – 44 kHz wide – 872 and 307 sps – 5.9 sec bursts
DK2OM	28745,0	0928	01	09	CIS		F3E			CIS taxi
DK2OM	28765,0	0949	01	09	CIS		F3E			CIS taxi
DK2OM	28795,0	0909	25	09	CIS		F3E,			CIS taxi
DK2OM	28810,0	1407	22	09						frequency hopper
DK2OM	28815,0	0929	01	09	CIS		F3E			CIS taxi
DK2OM	28825,0	vt	dly	09	UKR		F3E			taxi - Odessa
DK2OM	28835,0	0939	01	09	CIS		F3E			CIS taxi
DK2OM	28855,0	0957	01	09	CIS		F3E			CIS taxi
DK2OM	28875,0	0908	25	09	CIS		F3E			CIS taxi
DK2OM	28875,0	1017	25	09	CIS		F3E			CIS taxi
DK2OM	28885,0	0942	01	09	CIS		F3E			CIS taxi - daily
DK2OM	28890,0	0933	01	09	CIS		F3E			CIS taxi
DK2OM	28890,0	0944	01	09	CIS		F3E			CIS taxi
DK2OM	28895,0	vt	dly	09	RUS		F3E			taxi - Stavropol
DK2OM	28905,0	0937	01	09	CIS		F3E			CIS taxi
DK2OM	28915,0	0941	01	09	CIS		F3E			CIS taxi
DK2OM	28925,0	0810	06	09	FEa		F3E			Far East pirates
DK2OM	28930,0	1030	24	09	CIS		F3E			CIS taxi
DK2OM	28935,0	1430	29	09	CIS		F3E			CIS taxi
DK2OM	28940,0	0809	12	09	CIS		F3E			CIS taxi
DK2OM	28945,0	vt	dly	09	UKR		F3E			taxi - Donetsk
DK2OM	28950,0	1015	01	09	CIS		F3E			CIS taxi
DK2OM	28955,0	1547	28	09	CIS		F3E			CIS taxi
DK2OM	28975,0	0942	01	09	CIS		F3E			CIS taxi
DK2OM	28980,0	0952	01	09	CIS		F3E			CIS taxi
DK2OM	28995,0	0940	03	09	CIS		F3E			CIS taxi - daily
DK2OM	29000,0	0926	01	09	MEa		FMCW		44k	OTH Radar – 44 kHz wide – 872 and 307 sps – 5.9 sec bursts
DK2OM	29005,0	1510	29	09	CIS		F3E			CIS taxi
DK2OM	29015,0	1418	30	09	CIS		F3E			CIS taxi
DK2OM	29035,0	1558	28	09	CIS		F3E			CIS taxi
DK2OM	29045,0	1417	30	09	CIS		F3E			CIS taxi
DK2OM	29055,0	1433	29	09	CIS		F3E			CIS taxi
DK2OM	29065,0	1016	25	09	CIS		F3E			CIS taxi
DK2OM	29085,0	1010	01	09	CIS		F3E			CIS taxi
DK2OM	29090,0	1513	29	09	CIS		F3E			CIS taxi
DK2OM	29095,0	1419	30	09	CIS		F3E			CIS taxi
DK2OM	29100,0	0924	01	09	MEa		FMCW		44k	OTH Radar – 44 kHz wide – 872 and 307 sps – 5.9 sec bursts
DK2OM	29100,0	1549	28	09	CIS		F3E			CIS taxi
DK2OM	29105,0	0935	30	09	CIS		F3E			CIS taxi
DK2OM	29110,0	0934	01	09	CIS		F3E			CIS taxi
DK2OM	29125,0	0825	30	09	CIS		F3E			CIS taxi
DK2OM	29130,0	0935	30	09	CIS		F3E			CIS taxi
DK2OM	29135,0	1550	28	09	CIS		F3E			CIS taxi
DK2OM	29150,0	0827	30	09	FEa		F3E			Far East pirates
DK2OM	29155,0	1322	29	09	CIS		F3E			CIS taxi
DK2OM	29165,0	1437	29	09	CIS		F3E			CIS taxi
DK2OM	29175,0	1511	29	09	CIS		F3E			CIS taxi
DK2OM	29195,0	0939	30	09	CIS		F3E			CIS taxi
DK2OM	29205,0	0828	30	09	CIS		F3E			CIS taxi

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	29215,0	0948	30	09	CIS		F3E			CIS taxi
DK2OM	29220,0	1014	01	09	CIS		F3E			CIS taxi
DK2OM	29220,8	0920	25	09			PSK2	61	61	unid
DK2OM	29225,0	0945	01	09	CIS		F3E			CIS taxi
DK2OM	29230,0	0933	30	09	CIS		F3E			CIS taxi
DK2OM	29250,0	1512	29	09	CIS		F3E			CIS taxi
DK2OM	29255,0	0959	01	09	CIS		F3E			CIS taxi
DK2OM	29305,0	0941	30	09	CIS		F3E			CIS taxi
DK2OM	29315,0	1438	29	09	CIS		F3E			CIS taxi
DK2OM	29320,0	0950	01	09	CIS		F3E			CIS taxi
DK2OM	29325,0	0925	01	09	CIS		F3E			CIS taxi
DK2OM	29350,0	0925	01	09	MEa		FMCW		44k	OTH Radar – 44 kHz wide – 872 and 307 sps – 5.9 sec bursts
DK2OM	29350,0	1430	29	09	CIS		F3E			CIS taxi
DK2OM	29385,0	1552	28	09	CIS		F3E			CIS taxi
DK2OM	29395,0	0829	30	09	CIS		F3E			CIS taxi
DK2OM	29400,0	1004	01	09	CIS		F3E			CIS taxi
DK2OM	29405,0	0836	30	09	CIS		F3E			CIS taxi
DK2OM	29410,0	1324	29	09	CIS		F3E			CIS taxi
DK2OM	29425,0	1015	25	09	CIS		F3E			CIS taxi
DK2OM	29435,0	1439	29	09	CIS		F3E			CIS taxi
DK2OM	29440,0	vt	dly	09	CIS		F3E			CIS taxi
DK2OM	29450,0	0830	30	09	CIS		F3E			CIS taxi
DK2OM	29450,0	0832	30	09	CIS		F3E			CIS taxi
DK2OM	29455,0	0950	30	09	CIS		F3E			CIS taxi
DK2OM	29465,0	1551	28	09	CIS		F3E			CIS taxi
DK2OM	29475,0	0946	01	09	CIS		F3E			CIS taxi
DK2OM	29525,0	0831	30	09	CIS		F3E			CIS taxi
DK2OM	29535,0	1445	23	09	MEa		FMCW		20k	OTH Radar Cyprus ot Turkey – 50 sps
DK2OM	29545,0	0949	30	09	CIS		F3E			CIS taxi
DK2OM	29570,0	1404	24	09	MEa		FMCW		20k	OTH Radar Cyprus ot Turkey – 50 sps
DK2OM	29575,0	vt	dly	09	RUS		F3E			RUS taxi – Moscow – daily, all day
DK2OM	29695,0	1013	01	09	CIS		F3E			CIS taxi
DK2OM	29700,0	1552	23	09						frequency hopper

IRTS – Ireland – EI5DD (Steve)

KARS – Kuwait – 9K2RR (Faisal)

MRASZ – Hungary - HA7PL (Laci)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
MRASZ	7000,0	1619	3	9			J7D			
MRASZ	7000,0	1637	18	9			J7D			
MRASZ	7000,5	1550	23	9			LSB			Ui language
MRASZ	7000,7	1706	18	9			USB			Ui language
MRASZ	7005,5	1724	12	9			F1B		250	
MRASZ	7010,0	1640	18	8			BPSK			
MRASZ	7010,0	1549	23	8			BPSK			
MRASZ	7016,0	1642	18	9			F1B		250	
MRASZ	7032,0	1726	12	9	RUS		PSK2	120	2600	
MRASZ	7032,0	1820	13	9	RUS		PSK2	120	2600	
MRASZ	7032,0	2020	14	9	RUS		PSK2	120	2600	
MRASZ	7033,0	1547	23	9		Ui	A3E			
MRASZ	7038,7	1721	3	9	UKR	D	A1A			beacon "D"
MRASZ	7038,7	1902	6	9	UKR	D	A1A			beacon "D"
MRASZ	7038,8	1546	23	9	RUS	P	A1A			beacon „P”
MRASZ	7038,8	1621	24	9	RUS	P	A1A			beacon „P”

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
MRASZ	7038,9	1659	10	9	RUS	S	A1A			beacon "S"
MRASZ	7038,9	1822	13	9	RUS	S	A1A			beacon "S"
MRASZ	7039,0	1750	11	9	RUS	C	A1A			beacon "C"
MRASZ	7039,0	1546	23	9	RUS	C	A1A			beacon "C"
MRASZ	7039,0	1621	24	9	RUS	C	A1A			beacon "C"
MRASZ	7039,2	1721	3	9	RUS	L	A1A			beacon „L” sendes as „R E E”
MRASZ	7045,5	1628	24	9			BPSK			
MRASZ	7054,0	1727	3	9	RUS		F1B	50	200	
MRASZ	7054,0	1908	19	9	RUS		F1B	50	200	
MRASZ	7063,0	1546	23	9		Ui	A3E			
MRASZ	7080,0	1800	11	9			F1A			„13285 94T64 4745T”K
MRASZ	7080,5	1728	3	9			F1B		200	Ui printer
MRASZ	7099,0	1545	23	9		Ui	A3E			
MRASZ	7100,0	1754	11	9		Ui	A3E			UiBC
MRASZ	7114,0	1730	3	9			F1B		200	
MRASZ	7114,0	1740	3	9			F1A			„80384 39786 59426”
MRASZ	7114,0	1743	3	9			F1A			„27T42 45T79 T3T42 K”
MRASZ	7115,0	1544	23	9		Ui	A3E			
MRASZ	7116,6	1729	12	9			N0N			
MRASZ	7117,0	1735	3	9			F1B	100	1000	
MRASZ	7117,0	1853	6	9			F1B	100	1000	
MRASZ	7117,4	1858	3	9			F1A			„ANQQŪ GIEJY HÖENT”
MRASZ	7120,0	1644	18	9		Ui	A3E			UiBC music
MRASZ	7120,0	1543	23	9		Ui	A3E			UiBC music
MRASZ	7120,0	1623	24	9		Ui	A3E			UiBC music
MRASZ	7137,0	1757	11	9			N0N			
MRASZ	7142,0	1855	6	9			J7D			
MRASZ	7160,0	1732	3	9		Ui	A3E			UiBC
MRASZ	7164,0	1626	6	9			F1B			
MRASZ	7165,0	1542	23	9		Ui	A3E			UiBC
MRASZ	7165,0	1624	24	9		Ui	A3E			UiBC
MRASZ	7176,0	1734	3	9			F1B		250	
MRASZ	7180,0	1705	10	9		Ui	A3E			UiBC
MRASZ	7180,0	1759	11	9		Ui	A3E			UiBC
MRASZ	7180,0	1732	12	9		Ui	A3E			UiBC
MRASZ	7185,0	1854	6	9		Ui	A3E			UiBC
MRASZ	7190,0	1636	18	9		Ui	A3E			UiBC
MRASZ	7195,0	1706	10	9		Ui	A3E			UiBC French l.
MRASZ	7196,0	1554	6	9		Ui	A3E			
MRASZ	14024,0	1932	19	9		Ui	F1B		500	
MRASZ	14115,9	1747	12	9			N0N			
MRASZ	14192,0	1843	14	9			F1B		500	
MRASZ	14294,8	1752	3	9			A3E			3. rd harmonic of „Radio Tadjik”
MRASZ	14294,8	1748	10	9			A3E			3. rd harmonic of „Radio Tadjik”
MRASZ	14294,8	1745	12	9			A3E			3. rd harmonic of „Radio Tadjik”
MRASZ	18068,0	0858	7	9			OTHR			18068 – 18168 kHz
MRASZ	18090,0	1739	11	9			OTHR			18068 – 18110 kHz
MRASZ	21000,0	1049	7	9			OTHR			21180 – 21240 kHz
MRASZ	21001,5	0916	7	9		Ui	F1B		150	
MRASZ	21001,5	1658	24	9		Ui	F1B		150	
MRASZ	21030,0	1645	24	9			OTHR			20950 – 21030 kHz

OEVSV – Austria – OE3GSA (Gerd)

SOC	KHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
OEVSV	7120	1535	19	09			A3E			music
OEVSV	7120	1835	26	09			A3E			Radio Hargaysa
OEVSV	7161	0635	12	09		QJGK	F1B			
OEVSV	7185	1845	26	09			F1B			
OEVSV	14022	1630	19	09			F1B	50	500	
OEVSV	28925	0630	25	09			F3E			mobile - chinese language

PZK – Poland – SP3UZ (Wladyslaw)

REP – Portugal – CT4AN (Jose Francisco)

SOC	KHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REP	3505	21.00	05	09		n.i.	Pulses			1 bps
REP	3512,5	22.55	08	09		n.i.	J3E-U			Intruders
REP	3515	21.20	07	09	I		A3E			Intruders
REP	3515	23.54	22	09	I		J3E-L			Intruders
REP	3525	07.22	28	09		n.i.	Pulses			1 bps
REP	3525	20.12	24	09	POR E	n.i.	J3E-U			Fishermen
REP	3530	09.30	10	09	E		J3R-U			Fishermen
REP	3530	07.23	11	09	E		J3E-L			Fishermen
REP	3580	20.22	19	09	E		J3E-U			Fishermen
REP	3615	08.45	20	09	E		J3E-U			Spanish fishermen (sea to harbour)
REP	3627.5	08.41	30	09	E POR		J3E-U			Fishermen
REP	3635	08.00	29	09			J3E-U			Arab talks
REP	7000	18.01	30	09		V	A1A			CW Marker
REP	7001	23.15	12	09	E		J3E-U			Fishermen
REP	7005,5	22.07	26	09			J3E-L			Arab talks
REP	7010	21.11	26	09	E		J3E-U			Fishermen
REP	7017,5	19.39	22	09	E		J3E-U			Fishermen
REP	7020	22.01	23	09			J3E-L			Arab talks
REP	7025	18.37	21	09	E		J3E-L			Fishermen
REP	7025	19.42	23	09	MRC		J3E-U			Fishermen
REP	7038,6	07.00	25	09	RUS	S	A1A			MURMANSK, ADY, DLY 0.78uV S3
REP	7038,7	07.10	25	09	UKR	D	A1A			SEVASTOPOL, ADY, DLY 25uV S8
REP	7038,7	07.40	26	09	UKR	D	A1A			SEVASTOPOL, ADY, DLY 0.2uV S1
REP	7038,7	23.10	26	09	UKR	D	A1A			SEVASTOPOL Beacon 12.5uV S7
REP	7039,0	07.50	10	09	RUS	C	A1A			MOSCOW, ADY, DLY 50uV S9
REP	7039,0	23.13	10	09	RUS	C	A1A			MOSCOW Beacon 50uV S9
REP	7039,1	19.55	20	09	RUS	A	A1A			VOLGOGRAD, ADY, DLY 3.1uV S5
REP	7039,1	21.05	20	09	RUS	A	A1A			VOLGOGRAD, ADY, DLY 6.3uV S6
REP	7055	22.20	03	09			J3E-U			Arab talks
REP	7105	20.45	11	09	TWN		8k00 A3EGN			Sound of Hope
REP	7110	00.23	16	09	n.i.		8k00 A3EGN			Broadcasting with QSB
REP	7120	22.15	15	09	SOM		8k00 A3EGN			Radio Hargeisa with QSB
REP	7175	03.50	01	09	n.i.		8k00 A3EGN			Broadcasting
REP	10100	21.02	13	09	MLA		J3E-U			Malaysian fishers
REP	10105	20.22	18	09			J3E-U			Malaysia fishers discussing
REP	10125	14.43	19	09		n.i.	F1B	300	425	
REP	10135	22.55	13	09		n.i.	J3E-U			Numbers Station (5 digits)
REP	14005	08.29	15	09	E		J3E-U			Fishermen
REP	14015	09.10	10	09	E		J3E-U			Spanish fishery sea to harbour
REP	14155	21.45	22	09		n.i.	J3E-U			Family Phone call
REP	21150	13.48	21	09	MRC		J3E-L			Fishermen

SOC	KHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REP	28000	09.54	28	09	RUS		F3E			Taxis
REP	28050	12.00	25	09	F		A3E			CB's
REP	28145	11.22	19	09	RUS		F3E			Radio-Taxis
REP	28330	14.05	30	09		UiOTHR	FMCW			OTH Radar
REP	28355	10.46	29	09	RUS		F3E			YL taxis dispatcher
REP	28775	12.32	25	09		n.i.	F3E			YL
REP	28800	13.44	28	09			F3E			carrier only w/QSB
REP	28855	12.53	25	09	RUS		F3E			YL dispatcher
REP	28855	13.31	28	09	RUS		F3E			YL taxis dispatcher
REP	28860	15.20	28	09	n.i.		J3E-U SSTV			Unidentified call
REP	28865	12.12	21	09	RUS		F3E			Taxi
REP	28865	12.34	25	09	RUS		F3E			YL S9 +40dB
REP	28865	15.10	28	09	RUS		F3E			YL taxis disptacher
REP	28910	11.00	29	09	n.i.		LSB			Baltic Sea Radio. Test tx for Japan and North America. Music, jingles, till 1130utc
REP	28925	12.39	25	09		n.i.	F3E			YL voice
REP	28935	13.36	28	09	RUS		F3E			YL taxis dispatcher
REP	28940	12.13	21	09	POR		A3E			Fishermen
REP	29020	12.31	25	09		UiOTHR	FMCW			OTH 40kHz Wideband signal
REP	29030	10.13	29	09		UiOTHR	FMCW			OTH Radar
REP	29045	12.50	25	09	RUS		F3E			YL dispatcher
REP	29075	13.06	25	09		n.i.	F3E			YL dispatcher
REP	29075	13.34	28	09	RUS		F3E			YL taxis dispatcher
REP	29105	13.30	28	09		UiOTHR	FMCW			OTH Radar
REP	29111	12.14	21	09		n.i.	J3E-U			
REP	29140	13.43	28	09			F3E			carrier only w/ QSB
REP	29195	13.11	25	09		n.i.	F3E			YL voice
REP	29352	13.10	28	09		Sat Beacon	CW			ticker and long tones. Old Ham Sat pass
REP	29524	13.30	28	09	n.i.		RTTY			Datawell buoy
REP	29545	10.36	29	09		UiOTHR	FMCW			OTH Radar

RSGB - Great Britain – G4BOH (Chris)

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	REMARKS
RSGB	7120	Varies	Varies	09	SOM	Radio Hargeisa	A3E	Baldock sent service message to Director of Comms, Mogadishu. Reply states that they will investigate and report back!
RSGB	14295	24H	DLY	09	TJK	Radio Tajik.	A3E	Baldock sent service message. No response so Appendix 10 notice sent.

SRAL – Finland – OH2BLU (Pekka)

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
SRAL	7000,0	1100-1900	*	9		UiMUX	J7D	12x120	12x200	Days: 3. 7. 16. 17. 27.
SRAL	7008,0	1610-1800	22.	9		UiPTR	F1B		250	
SRAL	7010,0	1400-1900	18. 23.	9		UiMUX	J7D	12x120	12x200	
SRAL	7016,0	0530-1930	*	9	RUS	UiPTR	F1B		250	Days: 11. 18. 23. 25. Kaliningrad
SRAL	7018,6	1215-1430	13.	9		UiCarr	N0N			
SRAL	7020,0	0700-0800	11.	9		UiPTR	F1B		250	
SRAL	7022,0	0815-1900	12.	9	RUS	UiMUX	J7D	12x120	12x200	Moscow
SRAL	7025,0	1450-1900	7.	9	RUS	RDL	F1B		200	
SRAL	7030,0	0655-	*	9		UiPTR	F1B		250	Days: 5. 7. 10. 30.

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
		1530								
SRAL	7032,0	h24	9.-30.	9	RUS	UiMUX	J7D	12x120	12x200	Penza
SRAL	7035,0	1755-1920	25.	9		UiPTR	F1B		250	
SRAL	7038,7	2330-0315	*	9	UKR	D	A1A			Days: 4. 5. 6. Sevastopol
SRAL	7038,8	h24	11.-30.	9	RUS	P	A1A			Kaliningrad
SRAL	7038,9	0420-1805	*	9	RUS	S	A1A			Days: 5. 9. 17. Severomorsk
SRAL	7039,0	h24	6.-30.	9	RUS	C	A1A			Moscow
SRAL	7039,0	h24	1.-5.	9	RUS	P	F1A		250	Kaliningrad
SRAL	7039,0	h24	6.-10.	9	RUS	P	A1A			Kaliningrad
SRAL	7040,0	1350-1545	9.	9		UiPTR	F1A		200	
SRAL	7044,0	1345-1450	*	9		UiPTR	F1B		250	Days: 12. 13. 16. 30.
SRAL	7052,0	1305	25.	9		UiMUX	J7D	12x120	12x200	
SRAL	7054,0	1700-0700	dly	9	RUS	REA4	F1B		100/200	Moscow
SRAL	7059,0	1240-1300	6.	9		UiPTR	F1B		250	
SRAL	7061,0	0630-1200	6.-17.	9		UiMUX	J7D	12x120	12x200	Kaliningrad
SRAL	7072,0	1400-0605	28. 29.	9		UiMUX	J7D	12x120	12x200	Moscow
SRAL	7076,0	0900-0950	19.	9		UiPTR	F1B		250	
SRAL	7092,0	0100-0200	19.	9		UiMUX	J7D	12x120	12x200	
SRAL	7104,0	1200	5.	9		UiPTR	F1B			
SRAL	7112,0	0445	10.	9		UiMUX	J7D	12x120	12x200	
SRAL	7114,0	1530-1930	3.	9		UiPTR	F1B		200	
SRAL	7117,0	1245-1930	*	9	RUS	UiPTR	F1B		1000	Days: 1.-10. 13. 16. 20.-30. Kaliningrad
SRAL	7120,0	1430-1903/	13.-30.	9	SOM	R. Hargeisa	A3E			
SRAL	7121,0	0825	16.	9		UiMUX	J7D	12x120	12x200	
SRAL	7122,0	1920-0545	25.-26.	9		UiPTR	F1B		250	
SRAL	7137,0	1645-1915	5. 11.	9		UiPTR	F1B		200	
SRAL	7140,0	0540-1135	5. 19.	9		UiMUX	J7D	12x120	12x200	
SRAL	7142,0	0530-2400	6.-8.	9	UKR	UiMUX	J7D	12x120	12x200	Kiev
SRAL	7149,5	0540-1625	*	9		UiMUX	J7D	12x120	12x200	Days: 26. 27. 29.
SRAL	7158,0	1400	22.	9	RUS	UiMUX	J7D	12x120	12x200	
SRAL	7162,0	0545-1530	*	9	RUS	UiPTR	F1B		250	Days: 5. 7. 10. 12. 22. 30. Kaliningrad
SRAL	7164,0	1550	6.	9		UiPTR	F1B		200	
SRAL	7166,0	1200-1600	5. 6.	9	RUS	UiMUX	J7D	12x120	12x200	
SRAL	7170,0	1350	21.	9		UiPTR	F1B		500	
SRAL	7172,0	0615-1645	10.-14.	9	RUS	RIR2	A1A			
SRAL	7174,0	0430-1920	9.	9	RUS	UiMUX	J7D	12x120	12x200	
SRAL	7175,0	0245-0500	dly	9	ERI	VoBME 2	A3E			jammed by ETH, QSY 7160 – 7190 kHz
SRAL	7175,0	1430-1800	dly	9	ERI	VoBME 2	A3E			QSY 7160 –7190 kHz, jammed by ETH until 1700,

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
SRAL	7176,0	0140-1930	1.-3.	9		UiPTR	F1B		250	
SRAL	7186,0	0140-1930	26.-28.	9	RUS	UiMUX	J7D		12x200	Severomorsk
SRAL	7186,0	1250	24.	9		UiCW	A1A			MR 5F
SRAL	7192,0	1530	21.	9		UiPTR	F1B		250	
SRAL	7196,0	0345-0700	5.	9		UiPTR	F1B		200	
SRAL	7196,0	0515	30.	9		KC9E etc.	A1A			procedures
SRAL	7200,0	0130-0500	dly	9	SDN	R Sudan	A3E			
SRAL	7200,0	1430-2000	dly	9	SDN	R Sudan	A3E			
SRAL	7200,0	1515-1800	1.-21.	9	ETH	R. Ethiopia	A3E			
SRAL	14007,0	0855	13.	9		UiPTR	F1B		500	
SRAL	14008,0	1105-1230	26. 30.	9		UiPTR	F1B		500	
SRAL	14114,0	1235	16.	9		UiPTR	F1B			
SRAL	14160,0	0430-0440	9. 13.	9		UiPTR	F1B			
SRAL	14180,0	0530-1900	1.-20.	9		UiPTR	F1B		250	
SRAL	14192,0	0630-1900	dly	9		UiPTR	F1B		200/500	
SRAL	14240,0	0500-1635	18.	9	RUS	UiPTR	F1B		250	Smolensk
SRAL	14241,0	0830	6.	9		UiPTR	F1B			
SRAL	14242,0	0620-1200	14. 30.	9		UiMUX	J7D	12x120	12x200	
SRAL	14278,0	0700-0800	3.	9		UiPTR	F1B		250	
SRAL	14295,1	h24	dly	9	TJK	R Tojikiston	A3E			3f 4765,05 kHz, Yangiyul TX
SRAL	14348,0	0635	2.	9		UiPTR	F1B		250	
SRAL	18 MHz	0430-1650	*	9		UiOTHR	FMCW			Days: 2. 5. 7. 11. 13. 15. 16. 23. 26. 20kHz/50Hz
SRAL	21 MHz	0605-1642	*	9		UiOTHR	FMCW			Days: 2. 6. 7. 10. 13. 16. 18. 23. 26. 20kHz/50Hz
SRAL	21001,5	0715-1505	*	9		UiPTR	F1B		150	Days: 6. 10. 13. 23. 24. 29.
SRAL	24 MHz	1110-1202/	26.	9		UiOTHR	FMCW			20kHz/25Hz
SRAL	28235	1155	29	9	CIS	UiVOX	F3E			

USKA – Switzerland – HB9CET (Peter)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	7000.0	2252	02	09			N0N			long lasting carrier often
USKA	7010.0	1612	23	09			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D
USKA	7016.0	2031	13	09			F1B	75	250	
USKA	7016.0	2039	23	09			F1B	98	250	maybe distorted signal
USKA	7018.0	0715	03	09			F1B	75	250	
USKA	7022.0	1618	12	09			J7D		2k6	CIS12 idling (13 carriers only)
USKA	7025.0	1705	07	09			F1B	50	200	daily
USKA	7025.0	1710	07	09		RDL	F1A	50	200	figures in groups of 5
USKA	7026.0	0904	12	09			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D
USKA	7030.5	1639	01	09			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D
USKA	7032.0	1855	09	09			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D daily
USKA	7038.3	1003	23	09	RUS	K	A1A			Beacon K Petropavlovsk
USKA	7038.7	2133	02	09	UKR	D	A1A			Beacon D Sevastopol daily
USKA	7038.8	2221	12	09	RUS	P	A1A			Beacon P Kaliningrad daily
USKA	7038.9	2033	09	09	RUS	S	A1A			Beacon S Murmansk daily

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS		
USKA	7039.0	0834	02	09	RUS	P	F1A		250	Beacon P	Kaliningrad	often
USKA	7039.0	2243	11	09	RUS	C	A1A			Beacon C	Moscow	daily
USKA	7039.4	1633	01	09	RUS	M	A1A			Beacon M	Magadan	daily
USKA	7042.0	1946	09	09			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D		
USKA	7054.0	1853	02	09			F1B	50	125	maybe distorted		
USKA	7054.0	2129	02	09			F1B	50	200			daily
USKA	7059.0	1332	06	09			F1B	75	250			
USKA	7070.0	2146	05	09		MV	MFSK8	125	1750	MIL 188-141A		
USKA	7070.0	1738	02	09		244	MFSK8	125	1750	MIL 188-141A		
USKA	7070.0	0140	24	09		334	MFSK8	125	1750	MIL 188-141A		
USKA	7070.0	0145	24	09		514	MFSK8	125	1750	MIL 188-141A		
USKA	7070.0	1741	02	09		571	MFSK8	125	1750	MIL 188-141A		
USKA	7070.0	2340	02	09		20923	MFSK8	125	1750	MIL 188-141A		
USKA	7070.0	0059	24	09		810209	MFSK8	125	1750	MIL 188-141A		
USKA	7070.0	2240	26	09		820203	MFSK8	125	1750	MIL 188-141A		
USKA	7070.0	2214	01	09		820205	MFSK8	125	1750	MIL 188-141A		
USKA	7072.0	1824	28	09			J7D	12ch	2k6	CIS12 system idling (13 carriers)		
USKA	7076.0	2034	13	09			F1B	75	250			
USKA	7076.0	2036	13	09			F1A		250			
USKA	7080.0	1903	03	09			F1B	50	200			
USKA	7089.8	0837	20	09			PSK-8	2400	2k6	Link 11- SLEW		
USKA	7095.0	2139	06	09			J3E-U		2k6	Vocoder (voice encrypted)		
USKA	7105.0	2202	04	09	TWN		A3E			BC (2 stations)		
USKA	7105.0	2202	04	09	CHN		A3E			BC (2 stations)		
USKA	7112.0	1733	03	09			F1B	50	200			
USKA	7113.0	2034	28	09			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D		
USKA	7114.0	1901	03	09			F1B	50	200			
USKA	7117.0	1857	02	09			F1B	100	500			often
USKA	7117.0	2243	23	09			F1B	100	1000			almost daily
USKA	7120.0	1701	13	09	SOM		A3E			Radio Hargeisa		
USKA	7120.0	2044	04	09			A3E			weak		
USKA	7142.0	2030	06	09			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D		
USKA	7160.0	1746	03	09			A3E			BC (Music)		
USKA	7162.0	1454	22	09			F1B	100	500	also F1A		
USKA	7162.0	1457	22	09			F1B	75	250			
USKA	7165.0	1558	22	09			A3E			BC, jammed		
USKA	7165.0	1558	22	09			Noise		10 kHz	Jammer		
USKA	7175.875	1446	03	09			A1			absolutely illegal CW Jammer		
USKA	7176.0	1446	03	09			F1B	75	250			daily
USKA	7180.0	1634	11	09			A3E			BC, jammed		
USKA	7180.0	1758	17	09			A3E			BC, music (1800 qrt)		
USKA	7182.0	2133	22	09			J7D	12 ch	2k6	CIS12 system idling (13 carriers)		
USKA	7185.0	1659	07	09			A3E			BC, jammed		
USKA	7185.0	1659	07	09			Noise		10 kHz	Jammer		
USKA	7186.0	2009	26	09			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D		
USKA	7190.0	1628	01	09			A3E			BC, jammed		
USKA	7190.0	1629	01	09			Noise		10 kHz	Jammer		
USKA	7200.0	1703	07	09			A3E			splattering down ~5 Khz		
USKA	14000.0	2027	04	09			N0N			long lasting carrier		
USKA	14000.0	0837	25	09			J3E-U			Italian (no ham's)		
USKA	14008.0	0719	03	09			F1B	50	500			
USKA	14010.0	1231	03	09			A3E			BC: Voice and Music (IM?)		
USKA	14024.0	1451	18	09			F1B	75	500			
USKA	14027.5	0834	20	09			F1B	100	1000			
USKA	14050.0	0649	24	09			F1B	100	250	also short F1A		
USKA	14050.0	0723	03	09			F1B	100	200			
USKA	14110.0	0821	17	09			FMCW	66.66 sps	10k	OTHR BD 3.5s; BRI 10.5s, also 38s		
USKA	14160.0	0725	03	09			F1B	100	250			
USKA	14162.0	0818	25	09			J7D	12 ch	2k6	CIS12 system idling (13 carriers)		
USKA	14180.0	1452	05	09			F1B	50	250			often
USKA	14180.0	1457	05	09			F1A					
USKA	14192.0	1235	04	09			F1B	50	500			almost daily
USKA	14225.0	0807	17	09			FMCW	66.66 sps	10k	OTHR BD 3.5s; BRI 10.5s, also 38s		
USKA	14234.0	1705	30	09			F1B	100	2000	2 nd from 7117 kz (100/1000)		
USKA	14242.0	0654	24	09			J7D	12x120	2k6	PSK-4: CIS12 = AT3104D		

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	14245.0	0823	17	09			FMCW	47 sps	10k	OTHR BD 5.5s; BRI 28s
USKA	14272.0	2310	25	09			FMCW	66.66 sps	10k	OTHR BD 3.8s; BRI 15.2
USKA	14295.1	1935	03	09			A3E			BC, Music; Radio Tajikistan (3 rd from 4765 kHz)
USKA	14305.0	2214	10	09			FMCW	47 sps	10k	OTHR BD 5.5s; BRI 36s
USKA	14323.5	1152	20	09			F1B	600	600	ARQ
USKA	14337.0	2145	06	09			FMCW	47 sps	10k	OTHR BD 5.5s; BRI 36s
USKA	14341.5	2117	02	09			PSK-8	2400	2k4	MIL 188-110; Burst system
USKA	14342.0	2024	23	09			MFSK8	125	1750	MIL 188-141A
USKA	14344.65	2132	06	09			PSK-8	2400	2k4	MIL 188-110A Hybrid; daily
USKA	14344.8	0659	24	09			OFDM		2k4	Pilot at 3300
USKA	18107.0	0839	02	09			F1B	50	250	CIS 36-50
USKA	18107.0	1154	06	09			F1B	36	250	CIS 36-50
USKA	18107.0	1202	06	09			F1A	17 wpm		
USKA	18130.0	0705	24	09			F1B	100	1000	maybe 2 nd from 9065 kHz
USKA	21001.5	1240	04	09			F1B	100	150	Vocoder Yakhta
USKA	21026.8	1923	21	09			PSK-8	2400	2400	Stanag 4285; 600 bps long often
USKA	21026.8	2216	18	09			PSK-8	2400	2400	Stanag 4285; 600 bps long
USKA	21045.0	1529	26	09			FMCW	50 sps	20k	OTHR
USKA	21100.0	1733	27	09			FMCW	50 sps	20k	OTHR
USKA	21140.0	1338	03	09			FMCW	50 sps	20k	OTHR
USKA	21152.0	0751	17	09			J7D	12x120	2k6	PSK-2; CIS12 = AT3004D
USKA	21170.0	0906	02	09			FMCW	50 sps	20k	OTHR
USKA	21200.0	0931	06	09			FMCW	50 sps	20k	OTHR
USKA	21210.0	1309	03	09			FMCW	50 sps	20k	OTHR often
USKA	21215.0	0944	06	09			FMCW	50 sps	20k	OTHR
USKA	21233.3	0911	02	09			MFSK8	150	2k25	PRC 4+4 in FSK (idle)
USKA	21233.3	0913	02	09			MPSK8	75	2k25	PRC 4+4 in PSK4 (traffic) often
USKA	21235.5	0943	06	09			FMCW	6 sps	10k	OTHR; bursts, intro-ton
USKA	21241.8	1857	24	09			PSK-8	2400	2400	Stanag 4285; 600 bps long
USKA	21253.2	0918	22	09			MFSK8	150	2k25	PRC 4+4 in FSK
USKA	21253.2	0924	22	09			MPSK8	75	2k25	PRC 4+4 in PSK4 (traffic)
USKA	21275.0	1655	29	09			FMCW		20k	OTHR, short burst's only
USKA	21300.0	0729	25	09			F1B	100		4 th from 5325 often
USKA	21344.0	0732	25	09			J7D	12x	2k6	CIS12 idling (13 carriers)
USKA	21360.0	0751	24	09			FMCW	47 sps	10k	OTHR BD 5.5s; BRI 36.5s
USKA	21365.0	1134	06	09			FMCW	50 sps	20k	OTHR
USKA	21390.0	0647	23	09			FMCW	66.66 sps	10k	OTHR BD 3.8s
USKA	21400.0	0727	24	09			F1B	50	2000	4 nd from 5350 often
USKA	21424.0	0834	02	09			F1B	50	400	maybe 2 nd from 10712 often
USKA	21424.0	0935	22	09			F1B	50	400	maybe 2 nd from 10712: 50/200)
USKA	28130.0	1152	02	09			FMCW	870 sps	>50k	OTHR BD 3.3s BRI tot. 13.4s
USKA	28130.0	1152	02	09			FMCW	307 sps	~48k	OTHR BD 5.9s BRI
USKA	28335.0	1150	02	09			FMCW	50 sps	20k	OTHR
USKA	28430.0	1224	24	09			FMCW	50 sps	20k	OTHR
USKA	29060.0	0739	24	09			FMCW	25 sps	20k	OTHR

F3E Services in 10m Band (mostly all days)

USKA	28075.0	0833	26	09			F3E			Taxi almost daily
USKA	28085.0	1438	28	09			F3E			Taxi almost daily
USKA	28105.0	0841	26	09			F3E			Taxi almost daily
USKA	28115.0	0842	26	09			F3E			Taxi almost daily
USKA	28135.0	0835	26	09			F3E			Taxi almost daily
USKA	28140.0	0834	26	09			F3E			Taxi almost daily
USKA	28145.0	0842	26	09			F3E			Taxi almost daily
USKA	28165.0	0837	26	09			F3E			Taxi almost daily
USKA	28285.0	vt	vd	09			F3E			Taxi almost daily
USKA	28295.0	0837	26	09			F3E			Taxi almost daily
USKA	28300.0	0711	24	09			F3E			Taxi almost daily
USKA	28315.0	0838	26	09			F3E			Taxi almost daily
USKA	28400.0	0838	26	09			F3E			Taxi almost daily
USKA	28625.0	0713	24	09			F3E			Taxi almost daily
USKA	28665.0	1447	26	09			F3E			Taxi almost daily
USKA	28675.0	1446	26	09			F3E			Taxi almost daily
USKA	28695.0	1230	24	09			F3E			Taxi almost daily
USKA	28700.0	vt	vd	09			F3E			Taxi almost daily

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	28725.0	0714	24	09			F3E			Taxi almost daily
USKA	28755.0	vt vd	09				F3E			Taxi almost daily
USKA	28765.0	1445	28	09			F3E			Taxi almost daily
USKA	28795.0	0715	24	09			F3E			Taxi almost daily
USKA	28815.0	0715	24	09			F3E			Taxi almost daily
USKA	28825.0	1444	28	09			F3E			Taxi almost daily
USKA	28830.0	1227	24	09			F3E			Taxi almost daily
USKA	28850.0	vt vd	09				F3E			Taxi almost daily
USKA	28855.0	vt vd	09				F3E			Taxi almost daily
USKA	28885.0	1744	26	09			F3E			Taxi almost daily
USKA	28895.0	vt vd	09				F3E			Taxi almost daily
USKA	28935.0	1443	28	09			F3E			Taxi almost daily
USKA	28940.0	0840	26	09			F3E			Taxi almost daily
USKA	28945.0	0716	24	09			F3E			Taxi almost daily
USKA	28985.0	0839	26	09			F3E			Taxi almost daily
USKA	29005.0	0716	24	09			F3E			Taxi almost daily
USKA	29035.0	1442	28	09			F3E			Taxi almost daily
USKA	29050.0	1441	28	09			F3E			Taxi almost daily
USKA	29065.0	1442	28	09			F3E			Taxi almost daily
USKA	29085.0	0717	24	09			F3E			Taxi almost daily
USKA	29120.0	1441	28	09			F3E			Taxi almost daily
USKA	29225.0	1440	28	09			F3E			Taxi almost daily

Veron 1 – Netherlands – PA2GRU (Dick)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SHIFT	DETAILS
VERON	3552,0	20.24	6	9		UiPTR	F1B		Revs/Ptr
VERON	3556,0	22.58	2	9		UiMux	PSK8	2k4	Stanag4285 - like
VERON	3775,7	22.51	2	9		UiMux	PSK8	1k8	
VERON	7000,0	18.29	20	9	RUS	UiMUX	FSK		12 MPSK, AT 3004D
VERON	7025,0	16.50	7	9	?	UiPtr	F1B	200	revs, ptr
VERON	7030,0	19.08	13	9	RUS	UiMUX	FSK		12 MPSK, AT3004D, also 16/9
VERON	7032,0	17.32	19	9	RUS	UiMUX	FSK		12 MPSK, AT3004D, Penza
VERON	7032,0	17.46	28	9	RUS	UiMUX	FSK		12 MPSK, AT3004D
VERON	7038,7	14.08	23	9	RUS	P	A1A		Beacon Kaliningrad
VERON	7038,7	21.37	29	9	RUS	P	A1A		Beacon Kaliningrad
VERON	7038,8	19.25	2	9	RUS	P	A1A		beacon, Kaliningrad
VERON	7038,8	vt vd	9	9	RUS	P	A1A		P-beacon
VERON	7038,8	16.32	16	9	RUS	P	A!A		P-beacon
VERON	7038,8	22.38	1	9	RUS	L	A1A		Beacon St.Petersburg
VERON	7038,8	09.53	2	9	RUS	L	A1A		Beacon St.Petersburg
VERON	7038,8	21.37	29	9	RUS	L	A1A		Beacon St.Petersburg
VERON	7038,9	20.22	6	9	RUS	S	A1A		S-beacon
VERON	7038,9	19.04	13	9	RUS	P	A1A		beacon, Kaliningrad
VERON	7038,9	16.32	16	9	RUS	S	A1A		S-beacon
VERON	7038,9	19.08	9	9	RUS	S	A1A		Beacon Murmansk
VERON	7038,9	21.37	29	9	RUS	S	A1A		Beacon Murmansk
VERON	7039,0	19.04	13	9	RUS	C	A1A		beacon,nr Moscow
VERON	7039,0	16.32	16	9	RUS	C	A1A		C-beacon
VERON	7039,0	22.38	1	9	RUS	P	A1A		Beacon Kaliningrad
VERON	7039,0	09.53	2	9	RUS	P	A1A		Beacon Kaliningrad
VERON	7039,0	19.08	9	9	RUS	P	A1A		Beacon Kaliningrad
VERON	7039,0	21.37	29	9	RUS	C	A1A		Beacon Moscow
VERON	7039,2	15.48	1	9	RUS	P	A1A		P-beacon
VERON	7051,0	19.11	4	9		Stanag	4285	2400	
VERON	7053,0	09.52	2	9					Frequency hopper
VERON	7054,0	vt vd	9	9	RUS	REA4	F1B	200	Revs Rus. Airfoce Moscow, bad signal
VERON	7054,0	19.02	13	9	RUS	UiPtr	F1	200	Ptr/Revs Rus. Airforce, also 16/9
VERON	7054,0	17.41	28	9	RUS	UiPtr	F1B	200	Ptr/Revs Rus. Airforce,
VERON	7054,0	22.37	1	9	RUS	UiPtr	F1B	200	Revs
VERON	7054,0	20.33	2	9	RUS	UiPtr	F1B	200	Revs
VERON	7054,0	19.07	9	9	RUS	UiPtr	F1B	200	Revs

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SHIFT	DETAILS
VERON	7056,00	19.10	4	9		UiMUX	XXX		roaring noise
VERON	7056,0	09.27	12	9		UiMUX	XXX		roaring noise, also 25/9
VERON	7057,0	09.49	2	9		UiMUX	XXX		roaring noise
VERON	7080,0	19.24	2	9		UiPtr	F1B	250	Ptr
VERON	7105,0	22.29	1	9	CHN		A3E		Chinese px;s9
VERON	7105,0	22.29	1	9	TWN		A3E		Chinese px; s7
VERON	7105,0	22.34	2	9	CHN		A3E		Chinese px;s9
VERON	7105,0	22.34	2	9	TWN		A3E		Chinese px; s8
VERON	7114,0	19.22	2	9		UiPtr	F1B	200	Ptr
VERON	7117,0	18.24	20	9	RUS	UiPtr	F1B	500	Revs, Moscow, bad signals
VERON	7117,0	21.42	8	9		UiPtr	F1B	500	50Hz hum; very harmful
VERON	7117,0	19.04	9	9		UiPtr	F1B	1k	50Hz hum; very harmful
VERON	7117,0	21.34	29	9		UiPtr	F1B	1k	50Hz hum; very harmful
VERON	7118,0	19.07	4	9	RUS	UiMUX	FSK		12 MPSK, AT3004D
VERON	7120,0	18.54	25	9	SOM	Hargaysa	A3E		BC station, every day
VERON	7137,0	16.58	5	9	?	UiPtr	F1B	200	ptr, revs
VERON	7154,0	17.04	5	9	RUS	UiPtr	F1B	200	revs, ptr
VERON	7176,0	09.53	2	9		UiPtr	F1B		Ptr
VERON	7176,0	22.10	1	9		UiPtr	F1B	250	Printer
VERON	7176,0	20.24	2	9		UiPtr	F1B	250	Printer
VERON	7181,0	22.06	1	9					Frequency hopper
VERON	7200,0	17.55	24	9		UiBC	A3E		female, unknown language
VERON	7200,0	18.56	9	9		OTHR	FMCW		66,7 pps
VERON	10112,0	22.39	2	9	TUR	UiMux	PSK8	2k4	Stanag4285
VERON	10130,0	vt	vd	9		UiPTR	F1B		Ptr
VERON	10130,0	22.40	2	9	USA	UiPtr	F1B	850	
VERON	10131,0	14.29	28	9		UiPTR	F1B		Ptr
VERON	10148,0	14.01	23	9					Frequency hopper
VERON	14008,0	07.23	3	9	CIS	UiPTR	F1B		Carrier/Revs/Ptr
VERON	14014,0	07.26	3	9	CIS	UicW	A1A		XXX G5CX F2ET 77440 65904
VERON	14014,0	07.26	3	9	CIS	UicW	A1A		BERMANIT 0126 1207 K
VERON	14023,0	12.15	19	9		UiPtr	F1B		Ptr
VERON	14024,0	17.21	19	9	RUS	UiPtr	F1B	500	Ptr, Kaliningrad, Rus. Navy
VERON	14110,0	10.24	6	9		UiMUX	FSK		ALE
VERON	14110,0	07.50	17	9		UiCAR	A1A		Very strong carrier, long time
VERON	14154,5	06.28	4	9	CIS	?	A1A		(5BL) RPT AL K
VERON	14154,5	06.42	4	9	CIS	VU5R	A1A		QRJ2 ZXG ZOT ZHR K
VERON	14154,5	07.57	5	9	CIS	VU5R	A1A		DGBY DE VU5R: proc
VERON	14180,0	06.49	20	9	?	UiPtr	F1B	250	revs, ptr
VERON	14180,0	09.01	18	9	UKR	UiPtr	F1B	250	Ptr, Russian Navy, Sevastopol
VERON	14192,0	08.05	19	9	?	UiPtr	F1B	500	ptr, revs
VERON	14192,0	09.42	18	9	RUS	UiPtr	F1B		Ptr
VERON	14192,0	07.23	21	9	RUS	UiPtr	F1B		Ptr, also 24/9 at 09.00 utc
VERON	14192,0	13.51	23	9	RUS	UiPtr	F1B	500	Revs
VERON	14195,0	10.52	29	9	ITA		J3E-u		Misconducting hams(?); very harmful
VERON	14242,0	09.01	24	9		UiMUX	FSK		12 MPSK AT3004D
VERON	14348,0	13.59	23	9					Frequency hopper
VERON	18076,0	08.33	5	9		OTHR	FMCW		radar
VERON	18106,8	11.33	9	9		UiPtr	F1B	200	
VERON	18107,0	08.50	19	9		UiPTR	F1B		Revs/Ptr
VERON	18107,0	07.58	25	9		UicW	F1A		XXX XXX (followed by F!B Revs/Ptr)
VERON	18107,0	14.38	28	9	RUS	RDL	F1A		11111 5F (allowed)
VERON	18130,0	13.45	23	9					Frequency hopper
VERON	18167,0	07.29	7	9		OTHR	FMCW		radar, 18153-18174
VERON	18168,0	08.34	14	9		OTHR	FMCW		radar, 18162-18184 KHz
VERON	21001,5	09.27	10	9	RUS	UiPtr	F1B	150	Ptr, Yaktha St. Katrineburg
VERON	21001,5	07.54	13	9	RUS	UiPtr	F1	150	Ptr, Yaktha St. Katrineburg
VERON	21115,0	09.29	10	9		OTHR	FMCW		radar
VERON	21170,0	09.15	2	9		OTHR	FMCW		radar
VERON	21181,0	07.34	7	9		OTHR	FMCW		radar,21177-21200
VERON	21193,0	10.51	9	9					Frequency hopper
VERON	21234,0	14.03	2	9					Frequency hopper
VERON	21330,0	09.31	16	9		OTHR	FMCW		radar, 20 KHz wide
VERON	21422,8	13.42	23	9		UiPtr	F1B	400	

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SHIFT	DETAILS
VERON	21438,0	07.33	19	9	RUS	RCV	A1A		to RBE86, RIP90: nav. Warnings in Russian
VERON	24910,0	10.49	26	9		OTHR	FMCW		radar, 24895-24920
VERON	28120,0	08.55	26	9	RUS	Taxi	F3E		taxi traffic, female
VERON	28135,0	09.48	28	9	RUS	Taxi	F3E		taxi traffic, female
VERON	28140,0	08.23	26	9	RUS	Taxi	F3E		male
VERON	28140,0	09.48	28	9	RUS	Taxi	F3E		taxi traffic, female
VERON	28145,0	08.17	26	9	RUS	Taxi	F3E		female-male
VERON	28150,0	08.55	26	9	RUS	Taxi	F3E		taxi traffic, female
VERON	28155,0	09.49	28	9	RUS	Taxi	F3E		taxi traffic, female
VERON	28160,0	10.40	26	9	RUS	Taxi	F3E		female
VERON	28175,0	10.41	26	9	RUS	Taxi	F3E		female
VERON	28175,0	08.56	26	9	RUS	Taxi	F3E		taxi traffic, female
VERON	28185,0	08.15	26	9	RUS	Taxi	F3E		female
VERON	28205,0	08.56	26	9	RUS	Taxi	F3E		taxi traffic, female
VERON	28215,0	10.43	26	9	RUS	Taxi	F3E		female
VERON	28254,0	14.34	29	9	RUS		F3E		Taxi Business;s6
VERON	28285,0	08.25	26	9	RUS	Taxi	F3E		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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