International Amateur Radio Union

Region 1

Monitoring System

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The monthly newsletter for Region 1

August 2014

The 27 members of the IARUMS Region 1 Monitoring Team:

Acknowledgements

ARI: DH7SA – Salvatore ++ ARSK: 5Z4NU - Ted ++ ASTRA: DL1BDF – Mustapha ++ DARC: DK2OM – Wolf ++ ERASD: SU1SA – Sayed ++ IARC: 4Z1AB – Amos ++ IRTS: EI9GSB - Lisa ++ KARS: 9K2RR – Faisal ++ MARL: 9H1M – Dominic ++ MRASZ: HA7PL - Laci ++ NARS: 5N9AYM – Yusuf ++ NRRL: LA4EU – Hans Arne ++ OEVSV: OE3GSA – Gerd ++ PZK: SP9BRP – Jan ++ RAL: OD5RI – Riri ++ REF: F5MIU – Francis ++ REP: CT4AN – Jose ROARS: A41MA - Younis ++ RSGB: M0VRR - Vaughan ++ SARL: ZS4GJA - Gideon ++ SRAL: OH2BLU - Pekka ++ SSA – Ullmar ++ UBA: ON4PN - Patrick URE: EB1TR - Fabian ++ 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 (Swiss), OFCOM (UK) ++ Dutch AT ++ SK6AW – DX-Cluster ++ YO9RIJ – Petrica

Part 1: News and infos
Part 2: Detailed reports of the national co-ordinators

Part 1: News and Infos

1. **A41MA – Younis – a new member of our Monitoring Team in Region 1**
   A41MA is now the MS-Coordinator of ROARS Oman. Welcome to our Team dear Younis!

A41MA – Younis – in his shack

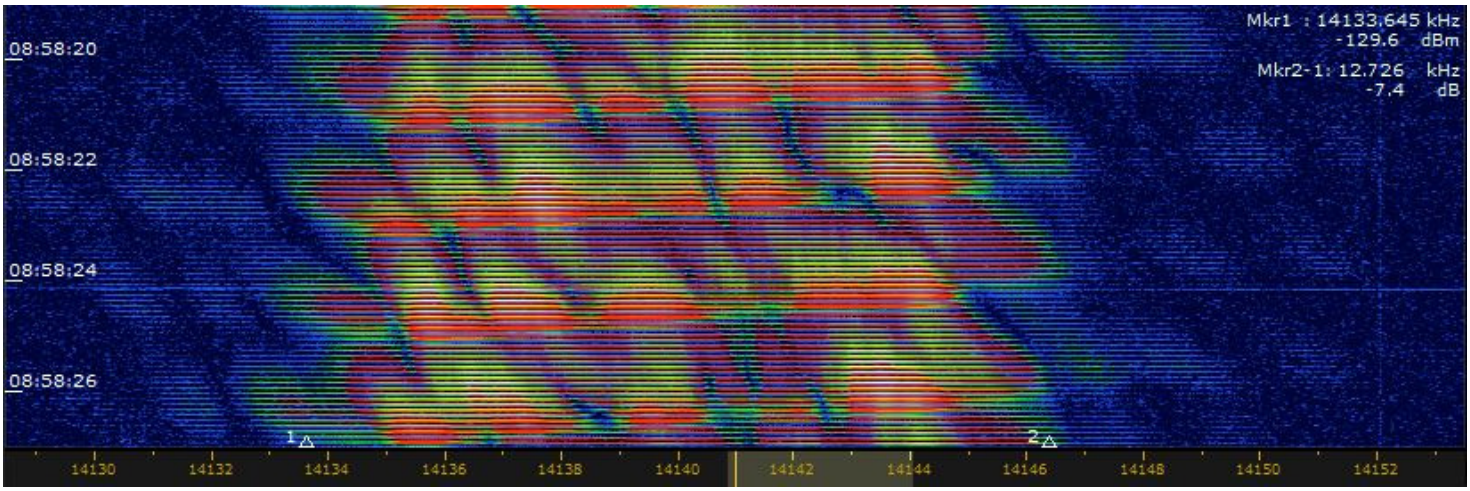
2. **The Situation on 160 m (no exclusive band!) in Europe – State August 2014**
   All stations in this table are legally operating. Several MIL stations left the band.Now we have more place for Amateurradio.

Monitored by DK2OM

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
	1812,0	1950	07	08	RUS		USB LSB			14 tones – hyperbolic radio navigation system – BRAS-3/RS-10 – Kaliningrad – daily, all day
	1852,0	1948	18	08	I	IPP	USB			Palermo Radio, weather reports
	1855,0	2121	08	08	I	IQP	USB			San Benedetto Radio, weather reports
	1876,0	2144	11	08	I	IQN	USB			Lampedusa Radio, weather reports
	1880,0	2116	11	08	BEL		PSK8	2400	2400	Stanag4285 – 600 bps long – area of Brugge – Belgium - daily
	1888,0	2125	11	08	I	IPD	USB			Civitavecchia Radio, weather reports
	1925,0	2117	11	08	I	IPL	USB			Livorno Radio, weather reports – daily, vt

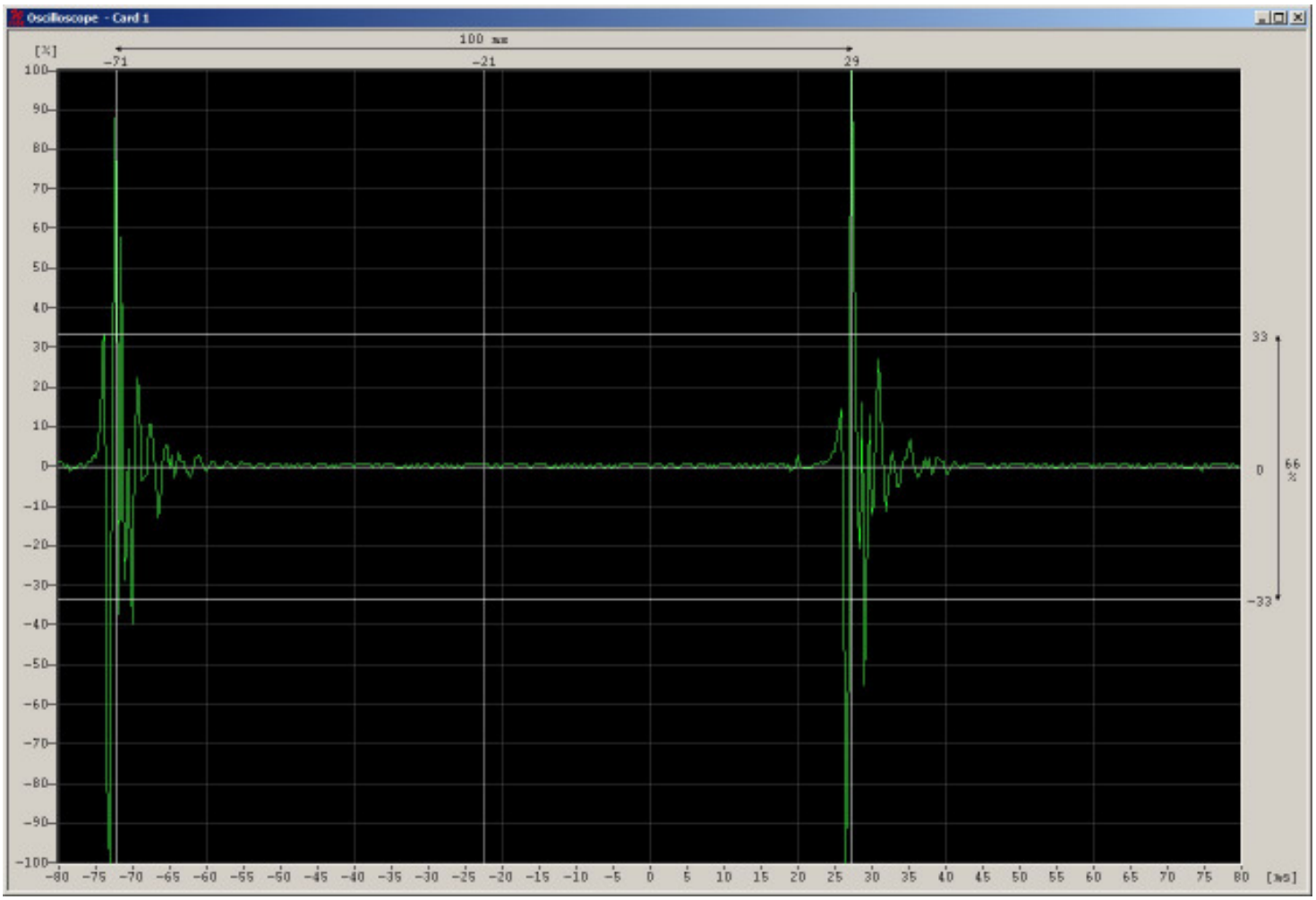
3. **Pirates on the band edges**
   3500.0 - Spanish fishery on USB
   7000.0 - Spanish and French fishery on USB – often in the mornings
   7000.0 - pirates from Indonesia on USB, audible every evening
   14000.0 – pirates from Philippine on USB – every afternoon
   21000.0 – Indonesian pirates on USB – daily
   21003.0 – Far East pirates on LSB – late afternoons
   Please observe and use the band edges!

4. Russian OTH radar on 14140 kHz – 10 sps and 10 kHz wide – Aug.26th at 0854 utc



14140

Russian OTH radar with 10 sps. The oscilloscope screenshot with W-Code is showing 100 ms gaps between the sweeps.
Calculation: 1 sec = 1000 msec : 100 msec = 10 sweeps/sec



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Russian OTH radars were very active on 14 MHz-band with 10 and 50 sps with long lasting emissions.

9. Homepage IARU Region 1 http://www.iaru-r1.org/
Homepage IARUMS Region 1 http://www.iarums-r1.org
Homepage IARUMS Region 2 http://www.iaru-r2.org/
Homepage IARUMS Region 3 http://www.iaru-r3.org/ms/
Intruderlogger Region 1 http://peditio.net/intruder/bluechat.cgi
ITU-Monitoring Reports:
http://www.itu.int/ITU-R/index.asp?category=terrestrial&rlink=terrestrial-monitoring&lang=en

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** = cyrillic 5 lettergroups

ARSK MONITORING OVERVIEW FOR AUGUST 2014

Radio Hargeisha on 7120 kHz and Uganda Radio on 7195r kHz were the only intruders observed.

E/H.M. Alleyne, 5Z4NU

ARSK National IARUMS Co-ordinator

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ARSK – Kenya – 5Z4NU (Ted)

DARC 1 – Germany – DG0JBJ (Mario) – OTH radar intrusions

DG0JBJ (Mario) observed 106 OTH radars on 20 m, 42 OTH radars on 15 m and 21 OTH radars on 10 m in August 2014. Russian OTH radars were active again on 20 m with 10 and 50 sps – partly 40 kHz wide with splatters!

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	3500,0	vt	dly	08	TUR		FSK8	120	1750	ALE, "201" - Turkish Red Crescent – legal!
DK2OM	3500,0	2000	05	08	E		USB F1B	100	170	Spanish fishery with scrambler CRY 2001 and F1B synchro signal
DK2OM	3500,2	1955	25	08	CIS		A3E			CIS pirate, unstable carrier
DK2OM	3501,8	1914	23	08	CIS		A3E			CIS pirate, unstable carrier
DK2OM	3502,7	2122	19	08	CIS		A3E			CIS pirate, unstable carrier
DK2OM	3503,5	vt	dly	08	G	no ITU	FSK8	125	1750	ALE – "XSS" "XPU" "XJR" – British MIL Tascomm – vt, daily - legal!
DK2OM	3517,0	1657	07	08	CHN		FMCW		85k	Chinese OTH radar – 43 sps – 3517 - 3602 kHz -
DK2OM	3524,0	2122	13	08	RUS		F1B	75	200	St. Peterburg
DK2OM	3527,0	2127	13	08	RUS		F1B	50	200	Severomorsk - also 24.08.2014 at 1942 utc -
DK2OM	3530,0	vt	dly	08			FSK8	125	1750	ALE, "11141"
DK2OM	3531,0	1910	03	08	RUS	REA4	N0N			carrier with spurious emissions, RUS airforce Moscow, ident: 1940 utc – daily, all day
DK2OM	3532,0	2020	12	08	F		PSK4	75	5800	LINK11-CLEW on both sidebands (5800 Hz wide) – area of Brest – legal!

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	3541,0	2006	15	08	E		USB			Spanish pirates
DK2OM	3550,0	vt	vd	08	ALG		FSK8	125	1750	ALE, “IU50” “IU52” “FN50”
DK2OM	3550,0	0800	16	08	F		A3E			French amateurs not respecting bandplans, every morning
DK2OM	3550,0	2148	17	08	RUS		PSK2A	120	2600	AT3004D – area of Sevastopol
DK2OM	3553,8	ady	dly	08	TUR		PSK8	2400	2400	Stanag4285 – TUR MIL - Ankara – legal operation
DK2OM	3567,0	vt	dly	08	CHN ?		FSK8	125	1750	ALE, “103” “106”
DK2OM	3576,4	ady	dly	08	I	IZ3DVW	A1A			uncoordinated beacon
DK2OM	3585,0	ady	dly	08	TWN	HLL	F1C			120 rpm, IOC 576, Wxfax - daily - legal!
DK2OM	3587,0	vt	vd	08	E	no ITU	FSK8	125	1750	ALE, “TVV” “TXX” - Spanish Guardia Civil
DK2OM	3590,0	vt	dly	08	PAK	no ITU	FSK8	125	1750	ALE, “KW” “KHAIBAR” – Pakistan navy
DK2OM	3595,0	vt	dly	08	D		FSK8	125	1750	ALE – German customs
DK2OM	3595,0	1947	04	08	RUS		USB			woman in Russian voice – often spelling figures - St. Peterburg - daily
DK2OM	3596,0	vt	dly	08	D, S, HRV		FSK8	125	1750	ALE, “DK3CW” “SA6CBK” “9A0PZ” – just for info!
DK2OM	3596,0	1912	03	08	RUS		PSK4B	120	2600	AT3104D – St. Peterburg – splatters covering +/- 9 kHz
DK2OM	3617,0	vt	dly	08	HRV	9A5EX	FSK8	125	1750	ALE, “9A5EX” – HAM-ALE - just for info
DK2OM	3622,5	ady	dly	08	J	JMH	F1C			Tokyo Meteo – 120 rpm – IOC576 – daily, legal!!!
DK2OM	3642,0	1852	09	08	CHN		A1A			endless slip – DKG6 de 3A7D Chinese military – daily, all day
DK2OM	3751,5	vt	dly	08	POL	no ITU	FSK8	125	1750	ALE, “IZ3” “MI3”
DK2OM	3756,0	2112	11	08	UKR		A3E			UKR – pip – 14 tones – hyperbolic navigation system – BRAS-2/RS-10
DK2OM	3761,5	vt	vd	08	POL		FSK8	125	1750	ALE, “NI9” “PL7” “AB2” – Polish MIL
DK2OM	3767,0	1830	30	08	CIS		PSK2A	120	2600	AT3004D -
DK2OM	3772,0	2107	11	08	RUS		F1B	50	200	idle - Kaliningrad
DK2OM	3782,0	ady	dly	08	POR	CTP	F1B	75	850	POR Navy headquarter Lisbon – disturbed by Russian OTH radar on 18.08.2013 at 1945 utc
DK2OM	3791,0	vt	vd	08	D	DK0ESD	FSK8	125	1750	ALE, “DK0ESD” – just for info!
DK2OM	7000,0	vt	vd	08	?	no ITU	FSK8	125	1750	ALE, “210” “20989” “2205”
DK2OM	7000,0	2028	04	08	E		USB			Spanish fishery
DK2OM	7000,0	1659	05	08	RUS		PSK2A	120	2600	AT3004D – west of Moscow
DK2OM	7000,0	1823	02	08	FEa		USB			Far East pirates
DK2OM	7000,0	0615	07	08	I		USB			Italian pirates – also 11.08.2014 at 0628 utc
DK2OM	7000,0	1959	08	08	MRC		USB			Moroccan fishery
DK2OM	7000,0	1830	10	08	SRB		A1A			only dashes - Belgrade
DK2OM	7000,0	1715	17	08	CHN		FMCW		60k	Chinese OTH radar with 43.5 sps – 6950 – 7010 kHz
DK2OM	7000,0	0800	26	08	F		USB			French fishery
DK2OM	7008,0	1649	22	08	RUS		F1B	75	250	Kaliningrad
DK2OM	7008,5	0654	12	08	CIS		PSK2	120	2600	AT3004D – submode idle -
DK2OM	7012,0	1705	05	08	RUS		PSK2A	120	2600	AT3004D – area of Moscow
DK2OM	7016,0	1719	22	08	RUS		F1B	75 81	250	Kaliningrad – idle with 81 Bd
DK2OM	7017,0	1707	07	08	RUS		PSK2A	120	2600	AT3004D - Orenburg
DK2OM	**7020,0**	**1845**	**08**	**08**	**INS**		**LSB USB**			**Indonesian pirates – village radio – daily, all day**
DK2OM	7020,0	vt	vd	08			FSK8	125	1750	ALE, “CS5004A” “RS0013D” – NC3A network? – area of Kosovo
DK2OM	7023,2	1705	07	08	RUS		PSK2	120	2600	AT3004D – modem idle - Irkutsk
DK2OM	7024,0	1835	25	08	UKR		PSK2A	120	2600	AT3004D - Donetsk

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	7032,0	0620	05	08	RUS		PSK2A	120	2600	AT3004D – Smolensk
DK2OM	7038,7	1910	09	08	RUS	D	A1A			Cluster beacon – Sevastopol RUS Navy – **"RCV"**
DK2OM	7038,8	1831	31	08	RUS	P	A1A			Cluster beacon – 7038.780 kHz - Kaliningrad RUS Navy – **"RMP"**
DK2OM	7038,9	1909	09	08	RUS	S	A1A			Cluster beacon – Severomorsk RUS Navy – **„RIT"**
DK2OM	7039,0	1911	09	08	RUS	C	A1A			Cluster beacon - Moscow RUS Navy - **"RIW"**
DK2OM	7039,2	---	---	08	RUS	F	A1A			Cluster beacon - Vladivostok RUS Navy - **"RJS"**
DK2OM	7039,3	---	---	08	RUS	K	A1A			Cluster beacon - Petropavlovsk Kamchatskiy - RUS Navy - Pacific fleet - **"RCC"**
DK2OM	7039,4	1820	02	08	RUS	M	A1A			Cluster beacon – Magadan RUS Navy – **„RTS"**
DK2OM	7040,0	vt	dly	08	F	F6BAZ	FSK8	125	1750	ALE, "F6BAZ" – just for info
DK2OM	**7040,0**	**ady**	**dly**	**08**	**I**		**A1A**			**IZ3DVW – uncoordinated and unwanted beacon**
DK2OM	7040,5	vt	dly	08	HRV		FSK8	125	1750	ALE, "9A5EX" "9A0ALE" – just for info
DK2OM	7042,0	1525	08	08	RUS		PSK2A	120	2600	AT3004D – Volgograd – disturbing PSK31
DK2OM	7045,0	1825	13	08	RUS		F1B	75	200	Sevastopol
DK2OM	7047,37	vt	vd	08	D		FSK8	125	1750	ALE, "DL0NOT" – just for info!
DK2OM	7049,5	vt	dly	08	HRV G F	9A0ALE M1DFO F6BAZ	FSK8	1250	1750	Amateur ALE, just for info!
DK2OM	7050,0	1800	dly	08	UKR RUS		LSB			music and chats mentioning Ukraine - daily
DK2OM	7054,0	---	---	08	RUS		F1B	50	200	CIS50-50 - RUS Navy Moscow – **not active**
DK2OM	7055,5	vt	vd	08	GEO	no ITU	FSK8	125	1750	ALE, "111" "132" "133" - Georgia
DK2OM	7070,0	vt	dly	08	GEO	no ITU	FSK8	125	1750	ALE, "MV" "244" "686" "334" "204" "571" – daily active
DK2OM	7088,8	vt	vd	08	S	SL0FRO	A1A			7088.830 - cw-trainee, Sweden – kHz – SL0FRO - just for info!
DK2OM	7089,8	vt	vd	08	TUR		PSK8	2400	2400	Link11 - SLEW – aircraft – area of Izmir
DK2OM	7092,0	vt	vd	08			FSK8	125	1750	ALE, "3014"
DK2OM	7099,5	vt	dly	08	HRV	9A0ZG	FSK8	125	1750	ALE, "9A0ZG" "9A5EX" "9A0OS" – daily - just for info!
DK2OM	7102,0	1827	13	08	HRV SUI D	9A0ALE	FSK8	125	1750	ALE, "9A0ALE" "9A2KS" "HB9MHB" "9A0ZG" "DK0ESD" – just for info!
DK2OM	7110,0	vt	dly	08	HRV	9A0ALE	FSK8	125	1750	ALE, "9A0ALE" – just for info
DK2OM	7110,0	vt	dly	08			FSK8	125	1750	ALE, "1101" "1112"
DK2OM	**7120,0**	**1700**	**dly**	**08**	**SOM**		**A3E**		**9k**	**Radio Hargaysa Somalia, daily**
DK2OM	7129,0	1822	10	08	CHN		FMCW		40k	Chinese OTH radar – 7129 – 7169 kHz - 43.5 sps
DK2OM	7131,5	1825	07	08	RUS		F1B	75	250	Rostov na Donu
DK2OM	7137,0	vt	dly	08	TWN	no ITU	FSK8	125	1750	LSB – ALE , "ACCENT" "ABLAZE" "ABOUND" "AGHAST" "ARTIST" "ANYWAY" "ABJECT" "ADROIT" – Taiwanese navy – daily – various times - tnx for info: DL8AAM
DK2OM	7142,5	0809	26	08	UKR		PSK2	120	2600	AT3004D - Vinnytsia
DK2OM	7146,5	2120	27	08	UKR		PSK2A	120	2600	AT3004D – submode idle – and traffic - East UKR
DK2OM	7149,0	1545	26	08			A1A			enciphered CW

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	7155,0	0658	17	08	RUS		PSK2	120	2600	AT3004D - Sevastopol
DK2OM	7171,0	1737	23	08	RUS		PSK2A	120	2600	AT3004D – modem idle and traffic - Moscow
DK2OM	**7182,5**	**1630**	**29**	**08**	**AZE**		**USB**			**Azerbaijan MIL**
DK2OM	7183,0	vt	dly	08	SUI		FSK8	125	1750	ALE, "HB9MHB" – just for info!
DK2OM	7185,5	vt	dly	08	D HRV		FSK8	125	1750	ALE, "9A5EX" "DK0ESD" just for info - daily
DK2OM	7186,0	0630	05	08	RUS		PSK2A	120	2600	AT3004D – Severomorsk – also 26.08.2014 at 1600 utc
DK2OM	7197,0	vt	dly	08	TUR	no ITU	FSK8	125	1750	ALE, "8241" "206102" "8151" "3021" "3761" "8021" "8141" "3061" "3241" "8411" – Turkish Sivil Avunma = Turkish Civil Defense - source: DL8AAM – daily, various times
DK2OM	7198,0	1729	22	08	RUS		PSK2	120	2600	AT3004D – submode idle - Moscow
DK2OM	10100,8	ady	dly	08	D		F1B	50	450	Baudot - German Weatherservice – legal!
DK2OM	10113,0	vt	dly	08	TUN	no ITU	FSK8	125	1750	ALE, "TUD"
DK2OM	10114,8	0500	dly	08	RUS		F1B	100	1000	CIS14 – Moscow
DK2OM	10115,0	vt	vd	08		no ITU	FSK8	125	1750	ALE, "2001" "2002"
DK2OM	10118,0	0756	09	08	RUS		F1B	50	250	Moscow
DK2OM	10120,0	1422	21	08	RUS		PSK2	120	2600	AT3004D - Saransk
DK2OM	10122,8	1950	07	08			PSK8	2400	2400	MIL-188-110A -
DK2OM	10123,0	vt	dly	08	ALG	no ITU	FSK8	125	1750	ALE, "CM3" "COF" "BSF" "CM2" "ESA"
DK2OM	10129,0	vt	dly	08	ALG	no ITU	FSK8	125	1750	ALE, "CM1" "CTF" "772"
DK2OM	10130,0	vt	dly	08	MRC		FSK8	125	1750	Thales 3000 – West Sahara – daily - vt
DK2OM	10130,0	2000	dly	08	MLE	no ITU	FSK8	125	1750	ALE, "001" "068" – Kuala Lumpur
DK2OM	10131,0	1310	16	08	RUS		F1B	75	250	St. Peterburg
DK2OM	10131,7	1952	24	07	RUS		A1A			synchronous on 10131.13 and 10132.26 - Kaliningrad
DK2OM	10136,0	vt	dly	08	ALG	no ITU	FSK8	125	1750	ALE, "CM3" "BLD" "CNC" "TF2"
DK2OM	10136,0	1900	dly	08	RUS		F1B	50	200	Chita – Far East Russia - daily
DK2OM	10144,0	ady	dly	08	D	DK0WCY	A1A			10143.986 kHz - DK0WCY – German aurora beacon – **just for info!**
DK2OM	10145,0	1616	23	08	RUS		PSK2A	120	2600	AT3004D - Samara
DK2OM	10145,5	2102	10	08	HRV S / D F / G	9A5EX	FSK8	125	1750	ALE, "9A5EX" "SM5VRH" "DK0ESD" "F6BAZ" "M1DFO"- just for info - daily
DK2OM	10145,5	1616	18	08	I		USB			Italian pirates disturbing digital modes
DK2OM	14000,0	1618	02	08	PHL		USB LSB			Philippine pirates – daily 1300 utc and later
DK2OM	14000,0	1910	06	08	MRC		USB			Moroccan fishery
DK2OM	14000,0	1852	12	08	RUS		FMCW		20k	OTH radar 10 sps – Nizhny Novgorod
DK2OM	14001,8	vt	dly	08			F1B	100	170	14001.785 kHz - Codan selcal – idents: 9503 - 9504
DK2OM	14008,0	0830	10	08	RUS		F1B	50	250	Moscow
DK2OM	14008,5	2044	31	08	FEa		USB			Far East pirates
DK2OM	14026,0	0824	02	08	RUS		PSK2A	120	2600	AT3004D – Moscow – also 31.08.2014 at 0725 utc
DK2OM	14052,0	0636	19	08	RUS		PSK2A	120	2600	AT3004D - Kazan
DK2OM	14060,0	vt	vd	08	ISR	no ITU	FSK8	125	1750	ALE, "AAA" - Israel
DK2OM	14064,0	0946	07	08	RUS		F1B	50	200	Novosibirsk
DK2OM	14066,0	0827	02	08	RUS		PSK2	120	2600	AT3004D – submode idle - Tjumen
DK2OM	14086,0	0917	07	08	RUS		F1B	75	250	unclean – Ulan Ude
DK2OM	14088,0	0835	07	08	RUS		PSK2A	120	2600	AT3004D - Irkutsk
DK2OM	14090,0	0712	03	08	RUS		FMCW		15k	OTHR Contayner – 50 sps –

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										Nizhny Novgorod
DK2OM	14100,0	1340	29	08	RUS		FMCW		14k	OTH radar 50 sps – Nizhny Novgorod
DK2OM	14104,0	0810	03	08	RUS		FMCW		15k	OTHR Contayner – 50 sps – Nizhny Novgorod
DK2OM	14108,0	0656	12	08	RUS	NKSP	A1A			RUS MIL Moscow
DK2OM	14109,0	vt	dly	08	ISR	4X1	FSK8	125	1750	ALE, "4X1" "CT2IXQ" – just for info!
DK2OM	14109,0	vt	dly	08	CAN		FSK8	125	1750	ALE, "VE3GDZ" – just for info!
DK2OM	14116,0	1255	04	08	RUS		F1B	50 75	250	Kaliningrad – also: 23.08.2014 at 0710 utc
DK2OM	14118,0	0705	06	08	RUS		PSK2A	120	2600	AT3004D – Moscow – also 24.08.2014 at 0713 utc
DK2OM	14118,0	0725	30	08			A1A			enciphered CW -
DK2OM	14127,0	1830	25	08	RUS		FMCW		15k	OTH radar 50 sps – Nizhny Novgorod
DK2OM	14130,0	1004	24	08	RUS		FMCW		20k	OTH radar 10 sps – Nizhny Novgorod
DK2OM	14140,0	2145	06	08	RUS		FMCW		10k	OTH radar 10 sps – Nizhny Novgorod – also 26.08.2014 at 0854 utc
DK2OM	14143,0	1822	13	08	RUS		FMCW		10k	OTH radar 50 sps – Nizhny Novgorod
DK2OM	14150,0	2133	08	08	RUS		FMCW		20k	OTH radar 10 sps – Nizhny Novgorod
DK2OM	14160,0	1305	04	08	RUS		F1B	75	250	Moscow
DK2OM	14162,0	0712	06	08	RUS		PSK2A	120	2600	AT3004D – traffic, modem and submode idle - Moscow
DK2OM	14171,0	0642	05	08	RUS		PSK2A	120	2600	AT3004D - Moscow
DK2OM	14192,0	1602	06	08	RUS		F1B	50	200	RUS navy Kaliningrad – vd, vt
DK2OM	14205,0	vt	dly	08	CHN ?	no ITU	FSK8	125	1750	ALE, "505" "822" – 60 deg. from DL - CHN ?
DK2OM	14221,0	2005	01	08	KGZ		F1B	50	200	Bishkek – daily, every evening
DK2OM	14222,0	0746	06	08	RUS		PSK2A	120	2600	AT3004D - Irkutsk
DK2OM	14240,0	0710	26	08	RUS		FMCW		10k	OTH radar 50 sps – Nizhny Novgorod
DK2OM	14255,0	1115	02	08	RUS		FMCW		15k	OTH radar 50 sps – Nizhny Novgorod
DK2OM	14260,0	vt	dly	06	SRB	YU1BI	FSK8	125	1750	ALE, "YU1BI" – just for info!
DK2OM	14265,0	vt	vd	08	TUR		FSK8	125	1750	ALE, "526"
DK2OM	14275,0	1502	22	08	RUS		FMCW		20k	OTH radar 10 sps – Nizhny Novgorod
DK2OM	**14280,0**	**1010**	**Wed**	**08**	**UKR**		**A3E**			**female voice with encrypted msgs – figures – "SZRU" = Foreign Intelligence Service of Ukraine at Rivne – every Wednesday**
DK2OM	14280,0	1310	26	08	RUS		FMCW		15k	OTH radar 50 sps – Nizhny Novgorod
DK2OM	14295,0	vt	dly	08	SRB	YU1BI	FSK8	125	1750	ALE, "YU1BI" – just for info!
DK2OM	14295,1	ady	dly	08	TJK		A3E			3rd from Radio Tajik on 4765 kHz
DK2OM	14300,0	1011	04	08	I	names	USB			Italian pirates – no calls
DK2OM	14300,0	1725	09	08	RUS		FMCW		15k with splatters	OTH radar with 50 sps - 14290 – 14305 kHz – with abnormal breaks – seems to be controlled by a random generator or simply defective – spectral lines only visible in AM mode - Kaliningrad
DK2OM	14317,0	vt	vd	08	RUS	RCV	A1A			RUS naval base Sevastopol - encrypted, cyrillic letters
DK2OM	14322,0	vt	dly	08	CHN	no ITU	FSK8	125	1750	ALE, "402"
DK2OM	14328,0	vt	dly	08	CHN	no ITU	FSK8	125	1750	ALE, "139" "534" "772" – West China
DK2OM	14330,0	vt	dly	08			FSK8	125	1750	ALE, "BV4"
DK2OM	14337,0	0909	07	08	CHN		FMCW		10k	Cinese OTH burst radar – 66.7

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										sps - 3.8 sec length
DK2OM	14340,0	1320	26	08	RUS		FMCW		15k	OTH radar 50 sps – Nizhny Novgorod
DK2OM	14344,7	1754	02	08	CHN		PSK8	2400	2400	modified MIL-188-110A - 600 bps short – 14344.650 kHz – daily, all day
DK2OM	14346,0	vt	dly	08	HRV RUS D		FSK8	125	1750	ALE, "9A0ZG" "RX3ARZ" "DK0ESD" – just for info – various times, daily
DK2OM	14346,0	vt	dly	08	THA	HS0ZEA	A1A			HS0ZEA beacon – 14345.950 kHz - every 5 minutes – just for info!
DK2OM	18070,0	1417	25	08	CYP		FMCW		20k	OTH radar Cyprus – 50 sps
DK2OM	18075.0	1509	22	08	CYP		FMCW		20k	OTH radar Cyprus – 50 sps
DK2OM	**18080,0**	**0600**	**dly**	**08**	**TWN CHN**	**SOH**	**A3E**		**9k**	**Sound of Hope / Taiwan and Chinese mainland BC**
DK2OM	18090,0	1256	25	08	CYP		FMCW		20k	OTH radar Cyprus – 50 sps
DK2OM	18100,0	1413	23	08	MRC	no ITU	FSK8	125	1750	ALE, "CD" "C3" "R3" "G3" "E4" "E5" "Z2" "FORD" – daily, various times
DK2OM	18100,0	0958	26	08	F?		USB			pirates in French voice
DK2OM	18107,0	vt	vd	08	RUS	RDL	F1B	50	200	Moscow – idle and traffic – Russian navy – various days and times – legal operation
DK2OM	18117,5	vt	vd	08	POR	CT2IXQ	FSK8	125	1750	ALE, "CT2IXQ" – just for info
DK2OM	18130,0	0750	29	08			F1B	100	1000	harmonic from 9065 kHz
DK2OM	18140,0	vt	dly	08	SRB	YU1BI	FSK8	125	2600	ALE, "YU1BI" – just for info!
DK2OM	18141,8	0812	30	08	CHN		PSK4A	2400	2400	
DK2OM	18144,0	0740	19	08	EGY GUI		F1B	100	170	Sitor A – MFA Cairo calling emba Conakry – ident KKVD
DK2OM	20998,8	1722	18	08	ARG	TB8 LU4	USB			illegal traffic in Spanish voice, splattering up
DK2OM	**21000,0**	**1329**	**19**	**08**	**SDN**		**USB**			**MFA Sudan – Khartoum with emba Yemen – voice traffic**
DK2OM	21000,0	1930	vd	08	B		USB			Brazilian pirates – Rio de Janeiro with North Brazil – every Saturday
DK2OM	21000,0	1240	18	08	INS		USB			Indonesian pirates
DK2OM	**21002,1**	**1327**	**19**	**08**	**SDN**	**!0000**	**F1B**	**100**	**170**	**21002.15 kHz - Pactor 1 encrypted – MFA Sudan – Khartoum with emba Yemen – daily, vt**
DK2OM	21003,0	1712	24	08	VTN		LSB			Far East pirates –Vietnam – engine noise – fishery?
DK2OM	21033,7	1846	05	08	E		USB			Korean fishery – 220° - area of Canary Islands
DK2OM	21096,0	vt	dly	08	INS	YD0OXH	FSK8	125	1750	ALE, "YD0OXH3" – daily, various times - just for info!
DK2OM	21100,0	1640	02	08	FEa		USB			Far East pirates
DK2OM	21130,0	1755	23	06	MRC		USB			Moroccan fishery
DK2OM	21131,0	vt	vd	08	CHN	no ITU	FSK8	125	1750	ALE, "A92" "L02" – Chinese Navy?
DK2OM	21145,0	1855	01	08	MRC	no ITU	FSK8	125	1750	ALE, "B301", "C3", "IR4" "T4" "E4" "A2" "CD" "K3" "KB2" "J5" "GS4" "R3" – various times, daily
DK2OM	**21145,8**	**vt**	**dly**	**08**	**I**	**IZ3DVW**	**A1A**			**21145.764 kHz – IZ3DVW uncoordinated and unwanted beacon**
DK2OM	21270,0	0652	01	08	AUS		FMCW	10k		Australian OTH burst radar JORN - jumping
DK2OM	21290,0	0644	01	08	AUS		FMCW		10k	Australian OTH burst radar JORN – 39 sps and other sweeprates
DK2OM	21295,0	0919	05	08	AUS		FMCW		10k	Australian OTH burst radar JORN – 44 sps
DK2OM	21318,6	0915	05	08	SRL		F1B	600	600	DPRK-FSK600 – 21318.555 kHz - Freetown

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	21345,0	0715	23	08	UKR		PSK2	120	2600	AT3004D – submode idle and traffic – East-UKR – also 31.08.2014 at 0755 utc
DK2OM	21346,0	ady	dly	08	THA	HS0ZEA	A1A			beacon "HS0ZEA" – just for info!
DK2OM	21409,5	0649	07	08	RUS		F1B	100	2000	21409,5 - F1B 100 / 2000 - CIS14 – harmonic from 10704.75 - Jekaterinburg, RUS - daily
DK2OM	21438,0	vt	dly	08	RUS	RCV	A1A			RIP90 de RCV - RUS Navy Sevastopol - daily
DK2OM	21445,0	1050	02	08	CHN		unid		7k	21445 – 21552 kHz – Chinese BC jammer
DK2OM	21446,0	ady	dly	08	THA	HS0ZEA	A1A			HS0ZEA beacon – every 5 minutes - just for info!
DK2OM	25000,0	ady	dly	08	FIN		A3E			time signal Helsinki – just for info – carrier on 25000 – dots on 25001 and 24999 – daily, all day
DK2OM	**28000,0**	**vt**	**dly**	**08**	**CIS**		**F3E**			**28000 – 29700 numerous CIS taxi nets – mostly Russia**
DK2OM	**28000,0**	**ady**	**dly**	**08**	**B**		**A3E**			**Brazilian CBers – 28000 – 28315 – no change**
DK2OM	28000,0	1624	20	08	IRN		FMCW		50k	OTH radar Iran – 307 and 870 sps – splattering +/- 300kHz
DK2OM	28000,0	1515	01	08	RUS		F3E			Russian taxi
DK2OM	28000,0	1900	06	08	B		USB			Brazilian pirates
DK2OM	28005,0	vt	dly	08	RUS		F3E			taxi net St. Peterburg, daily, all day
DK2OM	28035,0	vt	dly	08	RUS		F3E			taxi Moscow - daily
DK2OM	28045,0	vt	dly	08	POR		F1B	51	320	F1B bursts - west of Lisbon – Enagal GPS buoys - daily
DK2OM	28055,0	1715	08	08	RUS		F3E			taxi Moscow - daily
DK2OM	28065,0	1849	02	08	RUS		F3E			taxi Moscow - daily
DK2OM	28065,9	0915	10	08	GAB		A3E		1000	carrier and dots in USB and LSB, bursts every 60 sec, daily
DK2OM	**28100,0**	**1639**	**08**	**08**	**BLR**		**A3E**			**CBers - Minsk**
DK2OM	28100,0	1312	10	08	E		USB			Spanish pirates
DK2OM	28100,0	1024	24	08	IRN		FMCW		50k	OTH radar Iran – 307 and 870 sps – splattering +/- 300kHz
DK2OM	28101,0	vt	dly	08	POR		F1B	51	320	F1B bursts - 28100.780 kHz - west of Lisbon – Enagal GPS buoys – daily, all day
DK2OM	28105,0	vt	dly	08	RUS		F3E			taxi Moscow
DK2OM	28105,0	0848	06	08	E		A3E			Spanish CBers – daily, vt – area of Murcia
DK2OM	**28110,0**	**1655**	**08**	**08**	**RUS**		**A3E**			**Russian CBers**
DK2OM	28115,0	vt	vd	08	RUS		F3E			taxi – Kazan – daily – disturbing AFU PSK on 28120
DK2OM	28125,0	0928	06	08	POR		F1B	51	320	F1B bursts - 28100.160 kHz - west of Lisbon – Enagal GPS buoys – daily, all day
DK2OM	28130,0	0656	01	08	IRN		FMCW		50k	OTH radar Iran – 307 and 870 sps – splattering +/- 300kHz
DK2OM	28135,0	vt	dly	08	RUS		F3E			taxi – Barnaul - daily
DK2OM	28135,0	0850	06	08	E		A3E			Spanish CBers
DK2OM	28145,0	0858	13	08	RUS		F3E			RUS taxi - daily
DK2OM	28146,0	vt	vd	08	ARG B		FSK8	125	1750	ALE, "LU8EX" "PY2TI" "DL1" – just for info!
DK2OM	28147,0	1730	23	08	IRN		FMCW		50k	OTH radar Iran – 307 and 870 sps – splattering +/- 300kHz
DK2OM	28155,0	ady	dly	08	RUS		F3E			taxi Moscow
DK2OM	28175,0	1309	29	08	RUS		F3E			Russian taxi Ufa
DK2OM	28195,0	0923	13	08	RUS		FM			Russian taxi
DK2OM	28200,0	vt	dly	08	POR		F1B	51	300	F1B bursts - west of Lisbon – Enagal GPS buoys - daily
DK2OM	28205,0	1305	29	08	RUS		F3E			Russian taxi Saransk
DK2OM	28224,8	vt	dly	08	GAB		A3E		1500	carrier and dots in USB and

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										LSB, bursts every 60 sec
DK2OM	28255,0	vt	dly	08	RUS		F3E			taxi Moscow
DK2OM	28265,0	vt	dly	08	RUS		F3E			taxi Moscow
DK2OM	28275,0	0940	06	08	E		A3E			Spanish CBers
DK2OM	28275,1	vt	dly	08	AF		F1B	51	320	F1B bursts – African west-coast – Enagal GPS buoys - daily
DK2OM	28285,0	1312	29	08	RUS		F3E			taxi Moscow
DK2OM	28305,0	vt	dly	08	RUS		F3E			taxi - Arkhangelsk
DK2OM	28315,0	0934	10	08	POR		F1B	51	320	F1B bursts - west of Lisbon – Enagal GPS buoys - daily
DK2OM	28345,1	0905	10	08	GAB		A3E			carrier and dots in USB and LSB, bursts every 60 sec – 28346.110 kHz carrier – Gabon – daily and all day
DK2OM	**28435,0**	**---**	**--**	**08**	**E**		**F1B**	**81.9**	**140**	**Datawell-buoy "Waverider" – 28435.040 kHz – Costa del Sol - Malaga**
DK2OM	28870,0	0847	26	08	RUS		F3E			RUS taxi
DK2OM	28925,0	0840	06	08	ALG	no calls	F3E			male persons – West-Algeria
DK2OM	29210,0	0830	01	08			FMCW		15k	unknown – 100°
DK2OM	**29250,0**	**---**	**--**	**08**	**E**		**F1B**	**81.9**	**140**	**Datawell-buoy "Waverider" – 29249.905 kHz – Fuerteventura - daily, all day**
DK2OM	**29375,0**	**---**	**--**	**08**	**I**		**F1B**	**81.9**	**140**	**Datawell-buoy "Waverider" – 29374.898 kHz – Gallipoli, South Italy - daily, all day**
DK2OM	**29387,5**	**---**	**--**	**08**	**IND**		**F1B**	**81.9**	**140**	**Datawell-buoy "Waverider" – 29387,460 kHz – Indian NW coast, close to Pakistan - daily, all day**
DK2OM	**29450,0**	**---**	**--**	**08**	**MRC**		**F1B**	**81.9**	**140**	**Datawell-buoy "Waverider" – 29449.870 kHz - area of El Aaiun – Morocco - daily, all day**
DK2OM	**29500,0**	**---**	**--**	**08**	**G**		**F1B**	**81.9**	**140**	**Datawell-buoy "Waverider" – area of Gibraltar – daily, all day**
DK2OM	**29525,0**	**---**	**---**	**08**	**MRC**		**F1B**	**81.9**	**140**	**Datawell-buoy "Waverider" – 29524.990 kHz - Agadir - Morocco – daily, all day**
DK2OM	29685,5	---	--	08	I				2000	serial modem, Italian MIL Brescia
DK2OM	29699,8	---	--	08	I				2000	serial modem, Italian MIL Brescia
DK2OM	50075,0	0835	08	08			N0N			TV carrier with 50 Hz hum – 90°
DK2OM	50090,0	0835	08	08			N0N			TV carrier with 50 Hz hum – 90°

IRTS – Ireland – EI9GSB (Lisa)

KARS – Kuwait – 9K2RR (Faisal)

MRASZ – Hungary - HA7PL (Laci)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	DETAILS
MRASZ	3509,6	1809	17	8			A1A		"2//// 17T13 = + RMJA K"
MRASZ	3595,0	1838	2	8			USB		russian male/female: numbers, hrd: 17, 20
MRASZ	7000,0	1552	8	8			LSB		italian male's
MRASZ	7017,0	1607	7	8			PSK2		AT3004D
MRASZ	7023,0	1605	7	8			PSK2		AT3004D
MRASZ	7024,0	2028	26	8			PSK2		AT3004D
MRASZ	7027,0	2003	5	8			A1A		slow V V V string, hrd on: 12,14,19,26,28
MRASZ	7032,0	1951	5	8			PSK2		AT3004D
MRASZ	7035,0	1832	24	8			LSB		QSO OM1JS/YU7MC
MRASZ	7038,7	vt	ady	8	UKR	D	A1A		"D" beacon
MRASZ	7038,9	1839	11	8	RUS	S	A1A		"S" beacon, hrd on: 12,24,26
MRASZ	7039,0	2030	26	8	RUS	C	A1A		"C" beacon
MRASZ	7039,2	2030	26	8	RUS	F	A1A		"F" beacon
MRASZ	7042,0	1608	7	8			PSK2		AT3004D
MRASZ	7042,0	1551	8	8			PSK2		AT3004D
MRASZ	7045,0	vt	11	8			F1B	200	hrd on: 12,14,24,26,28
MRASZ	7050,0	vt	ady	8	UKR		LSB		ukr. "revolution" hrd allmost every day
MRASZ	7055,0	vt	ady	8	UKR		LSB		ukr. "revolution" hrd allmost every evening
MRASZ	7120,0	vt	ady	8	SOM		A3E		BC, Radio Hargaysa
MRASZ	7131,5	1601	7	8			F1B	250	hrd on: 8
MRASZ	7158,0	1559	7	8			A3E		hrd on: 8,12,14
MRASZ	7182,0	1857	12	8			N0N		
MRASZ	7186,0	1823	4	8			F2A		"4WHN de SUAL K" "QRJ 3? K" "QSS?"
MRASZ	7186,0	1915	5	8			N0N		hrd on: 11,14,17
MRASZ	7187,5	1653	14	8			F1B	250	
MRASZ	10122,0	1544	8	8			OTHR		10110-10150
MRASZ	10125,0	1902	12	8			OTHR		10100-10150
MRASZ	10143,0	1730	14	8			F1B	250	
MRASZ	14008,0	0828	29	8			F1B	250	
MRASZ	14026,0	909	20	8			PSK2		AT3004D
MRASZ	14064,0	1554	7	8			F1B	200	
MRASZ	14064,0	0936	20	8			F1B	250	
MRASZ	14110,0	1848	24	8			OTHR		
MRASZ	14130,0	1828	4	8			OTHR		14110-14140
MRASZ	14140,0	1931	4	8			OTHR		14130-14165
MRASZ	14155,0	1648	7	8			OTHR		
MRASZ	14221,0	1939	5	8			F1B	200	
MRASZ	14270,0	1534	8	8			OTHR		14250-14280
MRASZ	14280,0	1951	26	8			OTHR		14260-14310 S9+40 dB
MRASZ	14295,1	vt	ady	8	TJK		A3E		Radio Tajikistan, 3 x 4765 kHz
MRASZ	18070,0	1344	6	8			OTHR		18040-18100
MRASZ	18089,5	0910	20	8			N0N		
MRASZ	28200,0	1916	8	8			F3E		CB traffic

OEVSV – Austria – OE3GSA (Gerd)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
oevsv	7117.6	2028	03	08	unid	unid	J3Eu			males in spanish
oevsv	10101.1	0551	23	08	unid	unid	J3Eu			chat in spanish
oevsv	10125.0	2020	09	08	unid	unid	OTHR			
oevsv	14060.0	0610	113	08	unid	unid	OTHR			
oevsv	18077.6	2028	03	08	unid	unid	J3Eu			males in spanish

PZK – Poland – SP9BRP (Jan)

REF 1 – France – F5MIU (Francis)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD kHz	Sh Hz	DETAILS
REF	7050	1750	05	08			lsb	3		BCL programs Ukraine
REF	14140	1710	06	08			fmcw	20		OTHR Mil S8
REF	14140	0732	26	08			fmcw	20		OTHR Mil 7 pulsed 5Hz
REF	14240	0732	26	08			fmcw	20		OTHR Mil 8 pulsed 20Hz
REF	14280	0800	21	08			fmcw	20+		OTHR Mil S8 pulsed 20Hz
REF	14280	0800	22	08			fmcw	20+		OTHR Mil S9+ pulsed 20Hz
REF	18070	1720	06	08			fmcw	20		OTHR Mil S8 pulsed 20Hz
REF	18080	0812	25	08			fmcw	20		OTHR Mil 7 pulsed 20Hz
REF	21130	0751	26	08			fmcw	20		OTHR Mil 6 pulsed 20Hz
REF	29685	0750	25	08			cw		20-500	Pure carrier + fm oscillation +/- 1Hz, S3, NE

REF 2 – France – F5JBR (Andre)

REP – Portugal – CT4AN (Jose Francisco)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REP	28xxx	Dly	Dly	08	B		A3E			Brazilian CB ops, everyday in afternoon
REP	28x 29x	Dly	Dly	08	RUS		A3E/F3E			Daily mess of Russian taxi services
REP	3500	07.14	05	08	E		J3E-U			Fishermen
REP	3515	20.06	12	08	E		J3E-U			Fishermen
REP	3535	19.14	23	08			J3E-U			Unid ops
REP	3540,75	07.13	18	08			J3E-U			Unid language OM´s
REP	3552	07.22	06	08			J3E-U			Encrypted voice
REP	3572	07.10	18	08	E		J3E-U			Spanish fishery vocoder CRY2011
REP	3702	07.39	25	08	RUS		J3E-U			Navy trafic
REP	7004	01.21	18	08			J3E-U			Intruders/pirates – Fishermen ?
REP	**7038,7**	**23.10**	**19**	**08**	**UKR**	**D**	**A1A**			**SEVASTOPOL, ADY, DLY**
REP	**7039,0**	**23.19**	**19**	**08**	**RUS**	**C**	**A1A**			**MOSCOW, ADY, DLY**
REP	**7039,2**	**22.04**	**13**	**08**	**RUS**	**F**	**A1A**			**KAMCHATSKY**
REP	**7039,3**	**21.42**	**13**	**08**	**RUS**	**K**	**A1A**			**VOLGOGRAD, ADY, DLY**
REP	**7070**	**15.55**	**04**	**08**	**POR**		**J3E-L**			**Music & Jamming**
REP	**7070**	**17.08**	**10**	**08**	**I**		**J3E-L**			**Music over QSOs**
REP	**7070**	**13.22**	**15**	**08**	**E**		**J3E-L**			**Music & Jamming**
REP	10105	08.23	16	08			J3E-U			Unid language ops, two OM
REP	10110	22.59	30	08			A3E			Number Station - lady - 5 letters groups
REP	10118	07.37	18	08			F1B	50	250	Unid FSK, weak
REP	10120	14.02	17	08	MRC		J3E-U			Morrocan fishermen
REP	10131	18.00	16	08			FMCW			OTH radar
REP	10131	09.51	13	08			J3E-U			North African fishermen, Arabic lang.
REP	14000	10.55	18	08			F1B	300	425	RY RY RY
REP	14008	07.50	20	08	RUS		F1B	50	250	Russian MIL unid
REP	14025	09.02	20	08			BPSK			AT3004D w/ pilot tone, idling
REP	14064	07.51	18	08			F1B	50	250	Unid FSK
REP	14110	08.40	20	08			FMCW			OTH radar 15kHz wide
REP	14120	08.09	09	08			FMCW			OTH radar, brief bursts, 15kHz moving up
REP	**14130,0**	**17.39**	**19**	**08**	**RUS**		**J3E-U**			**Religious speech in Russian**
REP	14140	14.23	04	08			FMCW			OTH radar, moving up the 20m band
REP	14140	07.11	06	08			FMCW			OTH radar, short bursts
REP	14141	09.55	26	08			FMCW			OTH radar, 10sps/10kHz via remote SDR
REP	14145	13.06	02	08			FMCW			OTH radar 50sps / 20kHz
REP	14153	20.58	02	08	I		J3E-U			Talks ship to ship
REP	14156	08.10	09	08			FMCW			OTH radar, moved here from 14120kHz
REP	14168	08.41	20	08			FMCW			OTH radar, moved here from 14110
REP	14195	11.29	18	08	RUS		F1B	50	250	Encrypted russian MIL FSK
REP	14222	14.57	04	08			FMCW			OTH radar
REP	14240	12.33	09	08			FMCW			OTH radar, 20kHz wide
REP	14260	08.47	07	08	RUS		BPSK			AT3004D system (CIS12)
REP	14267	14.24	04	08			FMCW			OTH radar, moved here from 14140kHz
REP	14282	08.44	21	08			FMCW			OTH radar 50 sps / 20kHz

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REP	14282	06.48	22	08			FMCW			OTH radar 50 sps 20kHz
REP	14288	09.11	23	08			J3E-U			Unid "Pied Pipper" playing flute (badly)
REP	18100	20.07	08	08	B		J3E-U			Brazilian pirates
REP	**18146,7**	**07.42**	**19**	**08**	**EGY**	**KKVD**	**F1B**	**100**	**170**	**MFA Cairo w/ Guinea Conakry**
REP	21020	07.17	14	08			FMCW			OTH radar 20kHz
REP	21205	13.27	11	08	POR		J3E-U			Portuguese fishermen about fish and Wx
REP	28105	15.27	06	08	B		A3E			Brazilian ops, also spanish lang ops
REP	28155	18.51	16	08	B		A3E			Multiple bazilian ops, big mess over 10m
REP	28170	08.06	09	08	F		J3E			French freebanders
REP	28195	13.40	02	08			F3E			YL taxi network dispatcher
REP	28265	09.36	17	08			F3E			CIS taxi dispatchers
REP	28305	15.27	06	08	B		A3E			Brazilian ops
REP	28500	07.42	09	08	POR		A3E			Portuguese fishermen talking
REP	28715	15.30	15	08			F3E			CIS taxi dispatcher
REP	29125	08.05	20	08	RUS		F3E			Russian taxi dispatcher

RSGB - Great Britain – M0VRR (Vaughan)

SRAL – Finland – OH2BLU (Pekka)

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
SRAL	7000,0	0800-1630	5. 14.	8		UiMUX	PSK2	120	2600	
SRAL	7002,0	1800-1850	25.	8		UiMUX	PSK2	120	2600	
SRAL	7005,0	-1640/	25.	8		UiCW	A1A			MR 5BL
SRAL	7006,5	0330,1015	3. 26.	8		UiPTR	F1B/N0N			
SRAL	7008,0	0600-1145	*	8		UiPTR	F1B		250	Days: 11. 15. 25.
SRAL	7010,0	0920	23.	8		UiMUX	PSK2	120	2600	
SRAL	7012,0	0815-1930	7. 28.	8	RUS	UiMUX	PSK2	120	2600	
SRAL	7016,0	1150-1320	16.	8		UiPTR	F1B			
SRAL	7017,0	1615-1730	7.	8		UiMUX	PSK2	120	2600	
SRAL	7018,6	0800-1930	*	8		UiPTR	F1B/N0N			Days: 22. 25. 28.
SRAL	7020,0	0920	17.	8		UiMUX	PSK2	120	2600	
SRAL	7023,0	1555-2255	7.	8		UiMUX	PSK2	120	2600	
SRAL	7024,0	1100-1930	25.-30.	8		UiMUX	PSK2	120	2600	
SRAL	7027,0	0800-1010	16. 30.	8		UiMUX	PSK2	120	2600	
SRAL	7032,0	0430-1930	1.-7.	8	RUS	UiMUX	PSK2	120	2600	
SRAL	7038,7	h24	dly	8	RUS	D	A1A			Sevastopol
SRAL	7038,8	0645,1920	10. 21.	8	RUS	P	A1A			Kaliningrad
SRAL	7038,9	h24	*	8	RUS	S	A1A			Severomorsk, days: 3. 7. 9. 10. 12. 14.-18. 24. 27. 28.30. 31.
SRAL	7039,0	0245-1700	*	8	RUS	C	A1A			Moscow, days: 3. 9. 10. 12. 13. 16. 18. 24. 27. 28. 30. 31.
SRAL	7042,0	1520-1800	6.-8.	8	RUS	UiMUX	PSK2	120	2600	
SRAL	7045,0	1700	14.	8		UiPTR	F1B		200	
SRAL	7080,0	0320	17.	8	RUS	RMW46	A1A			RGR98 &c.
SRAL	7097,0	1155	26.	8		UiPTR	F1B			
SRAL	7112,0	1130	27.	8		UiMUX	PSK2	120	2600	

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
SRAL	7116,0	0415-0600	31.	8		UiPTR	F1B		200	
SRAL	7120,0	0330-0400	dly	8	SOM	R. Hargeisa	A3E			
SRAL	7120,0	1500-1900	dly	8	SOM	R. Hargeisa	A3E			
SRAL	7131,5	1500-2300	7. 8.	8		UiPTR	F1B		250	
SRAL	7140,0	0445-1930	3. 4.	8		UiMUX	PSK2	120	2600	
SRAL	7140,5	1315	12.	8		UiMUX	PSK2	120	2600	
SRAL	7145,5	0530-1920	*	8		UiMUX	PSK2	120	2600	Days: 21. 22. 28.
SRAL	7149,0	1600-1800	22. 26.	8		UiMUX	PSK2	120	2600	
SRAL	7150,5	0615-1930	*	8		UiMUX	PSK2	120	2600	Days: 1. 3. 9. 31.
SRAL	7158,0	1410	16.	8		6KJ1	A1A			
SRAL	7160,0	0600-0830	19. 20.	8	RUS	RMW32	A1A			RKP61 &c.
SRAL	7162,0	0845	3.	8		UiMUX	PSK2	120	2600	
SRAL	7162,0	0640	8.	8		UiPTR	F1B			
SRAL	7164,0	0640	14.	8		UiMUX	PSK2	120	2600	
SRAL	7171,0	1750	23.	8		UiMUX	PSK2	120	2600	
SRAL	7175,0	0545	22.	8		TQV1	F1A		400	
SRAL	7181,62	1030-1940	12. 21.	8		UiCarr	N0N			
SRAL	7185,7	h24	5.-19.	8		V2FC &c.	F1A/ N0N		500	
SRAL	7186,0	1795	7.	8		UiPTR	F1A			MR 5BL
SRAL	7186,0	0500-1930	*	8		UiMUX	PSK2	120	2600	Days: 5. 26. 31.
SRAL	7187,5	1235-1800/	*	8		UiPTR	F1B		250	Days: 14. 19. 27.
SRAL	7196,0	1620-1730	7.	8		UiMUX	PSK2	120	2600	
SRAL	7197,0	0940-1640	13.	8		UiMUX	PSK2	120	2600	
SRAL	7198,0	1820-1920	22.	8	RUS	UiMUX	PSK2	120	2600	
SRAL	7200,0	2200-2300	*	8		UiBC	A3E			Days: 7. 15. 19. 20. 23.
SRAL	7200,0	1400-1430	28. 30.	8		UiBC	A3E			
SRAL	14008,0	0800-1300	*	8	RUS	UiPTR	F1B		250	Days: 10. 13. 24.
SRAL	14030,0	0650	13.	8		UiMUX	PSK2	120	2600	
SRAL	14036,0	0810-1020	2. 5.	8		UiMUX	PSK2	120	2600	
SRAL	14052,0	0945	18.	8		UiMUX	PSK2	120	2600	
SRAL	14064,0	0415-1930	*	8	RUS	UiPTR	F1B		200	Days: 8. 9. 10.
SRAL	14066,0	0810	2.	8		UiMUX	PSK2	120	2600	
SRAL	14108,0	0650	25.	8	RUS	2DX7	A1A			
SRAL	14116,0	0945-1300	4. 18.	8	RUS	UiPTR	F1B/A		250	
SRAL	14118,0	0650-0705/	25.	8		Uidotter	A1A			45 Hz
SRAL	14160,0	0735-1320	4. 15.	8		UiPTR	F1B		250	
SRAL	14162,0	0940	6.	8		UiMUX	PSK2	120	2600	
SRAL	14169,0	0805-0823/	4.	8		UiPTR	F1B		200	
SRAL	14177,0	0805	24.	8		UiPTR	F1B			
SRAL	14192,0	0800-1300	*	8	RUS	UiPTR	F1B		200	Days: 9. 10. 15.
SRAL	14221,0	1900-	*	8	RUS/	UiPTR	F1B		200	Days: 2. 6. 7. 9. 11. 12.

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
		0500			KAZ					14. 15. 16. 17. 20. 26.
SRAL	14240,0	0815-1345	14. 15.	8		UiPTR	F1B			
SRAL	14240,0	0400	27.	8		KLBV	A1A			
SRAL	14271,0	0435	24.	8		UiMUX	PSK2	120	2600	
SRAL	14292,0	0545-1135/	*	8	RUS	FOKC	A1A			MR 5BL, Days: 22. 24. 26. 27.
SRAL	14294,0	1240-1450	13.	8		UiMUX	PSK2	120	2600	
SRAL	14295,2	h24	dly	8	TJK	R Tojikiston	A3E			3f 4765,07 kHz, Yangiyul TX
SRAL	14 MHz	0400-1930	*	8	RUS	29B6	FMCW			50Hz / 15 kHz , days: 1. 2. 3. 5. 7. 9. 11. 12. 13. 21. 22. 25. 26. 27. 29.
SRAL	14 MHz	0515-1930	*	8	RUS	UiOTHR	FMCW			10Hz / 15 kHz, mostly 30 sec bursts, days: 3. 6. 9. 11. 16. 20. 26. 31.
SRAL	18 MHz	0600-1930	*	8	CYP / TUR	UiOTHR	FMCW			25/50Hz / 20 kHz, days: 5. 6. 7. 9. 14. 15. 17. 18. 22. 23. 24. 25. 26. 30.
SRAL	18080,0	0600-0700	*	8	TWN/ CHN	UiBC	A3E			Days: 11. 29. 31.
SRAL	21 MHz	0555-1145	*	8	CYP / TUR	UiOTHR	FMCW			25/50Hz / 20 kHz, days: 7. 17. 21. 23. 27.
SRAL	21438,0	0800-1110	*	8	RUS	RCV	A1A			Days: 9. 10. 17. 30.
SRAL	28 MHz	0800-1300	*	8	IRN	UiOTHR	FMCW			307 & 870 Hz / 60 kHz, days: 9. 24. 27.
SRAL	28 MHz	1135	9	8	RUS	Taxi disp.	F3E			

USKA – Switzerland – HB9CET (Peter)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	7000.0	2139	09	08			J3E-U			unidentified language: several stations
USKA	7000.0	2153	25	08			J3E-U			Italian; fishery
USKA	7012.0	1929	07	08			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D
USKA	7023.0	1934	07	08			J7D		2k7	CIS12 system, idling (13 carriers)
USKA	7024.0	1611	25	08			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D often
USKA	7027.0	1054	27	08			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D
USKA	7032.0	1609	02	08			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D daily
USKA	7038.7	1612	02	08	UKR	D	A1A			Beacon D Sevastopol daily
USKA	7038.9	1416	28	08	RUS	S	A1A			Beacon S Murmansk daily
USKA	7039.4	2107	05	08	RUS	M	A1A			Beacon M Magadan daily
USKA	7042.0	2059	05	08			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D
USKA	7045.0	2206	10	08			F1B	75	200	often
USKA	7112.0	1145	27	08			J7D	12x120	2k7	PSK-4: CIS12 = AT3104D
USKA	7120.0	1615	02	08	SOM		A3E			Radio Hargaysa daily
USKA	7131.5	1941	97	08			F1B	75	250	
USKA	7140.0	2029	03	08			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D often
USKA	7148.5	2244	27	08			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D
USKA	7150.5	2145	25	08			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D
USKA	7165.0	2107	25	08			J7D		2k7	CIS12 sytem idling
USKA	7171.0	2153	25	08			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D
USKA	7186.0	0543	05	08			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D often with carrier
USKA	7197.0	2123	04	08			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D often
USKA	7197.0	2135	08	08		3062	MFSK8	125	1750	MIL 188-141A
USKA	7197.0	1904	28	08		3091	MFSK8	125	1750	MIL 188-141A
USKA	7197.0	2145	08	08		3371	MFSK8	125	1750	MIL 188-141A
USKA	7197.0	2137	08	08		8451	MFSK8	125	1750	MIL 188-141A
USKA	7200.0	2257	27	08			A3E			BC, interfering 40m band daily

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	14000.0	2128	04	23			J3E-U			SE-asian language, orobably indonesian village radio?
USKA	14000.0	0848	05	08			FMCW	10 sps	~ 15k	OTHR
USKA	14008.0	1145	09	08			F1B	50	250	mostly with long intervals often
USKA	14026.0	0804	21	08			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D
USKA	14058.0	0955	13	08			FMCW	50 sps	~14k	OTHR; occupied BW >25k
USKA	14064.0	1031	08	08			F1B	50	200	
USKA	14086.0	0941	07	08			F1B	75	250	
USKA	14116.0	1328	04	08			F1B	75	250	daily
USKA	14118.0	0649	06	08			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D often
USKA	14125.0	1801	25	08			FMCW	50 sps	~14k	OTHR; occupied BW >25k
USKA	14140.0	0931	26	08			FMCW	10 sps	~10k	OTHR; occupied BW ^20k
USKA	14141.0	0819	24	08			F1B	75	500	
USKA	14145.0	1253	02	08			FMCW	50 sps	~14k	OTHR; occupied BW >25k
USKA	14160.0	1322	04	08			F1B	75	250	daily
USKA	14169.0	0836	22	08			OFDM39	44.44	app 2k2	Spacing ~ 56.25Hz; Pilottone
USKA	14177.0	0824	24	08			F1B	75	500	
USKA	14192.0	1604	02	08			F1B	50	200	CIS 50-50 daily
USKA	14221.0	1910	02	08			F1B	50	200	CIS 50-50 daily
USKA	14228.0 VFO LSB	0824	22	08			OFDM30 BPSK	60	~2k4	Burst system; spacing 75Hz preamble 4x PSK4 60Bd, spacing 600Hz; Pilottone at 450Hz
USKA	14240.0	0904	26	08			FMCW	50 sps	~10k	OTHR, occupied BW 25k
USKA	14280.0	0751	22	08			FMCW	50 sps	~12k	OTHR, occupied BW >25k
USKA	14282.0	0759	21	08			FMCW	50 sps	~12k	OTHR, occupied BW >25k
USKA	14294.0	1007	13	08			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D often
USKA	14339.0	1328	26	08			FMCW	50 sps	~12k	OTHR, occupied BW >30k
USKA	14344.65	1608	02	08			PSK-8	2400	2k4	MIL 188-110A, variant daily burst system, short intro ton Frame format 600 bps/short
USKA	18075.0	0807	22	08			FMCW	50 sps	20k	OTHR
USKA	18099.315	2218	24				N0N			long lasting carrier; slightly drifting
USKA	18120.0	0738	06	08			FMCW	48 sps	~10k	OTHR BD ~5.2s BRI ~31s (weak)
USKA	18168.0	0653	06	08			FMCW	48 sps	~15k	OTHR BD 5.5s BRI ~30s
USKA	21090.0	0721	06	08			FMCW	50 sps	20k	OTHR
USKA	21320.0	1035	08	08			FMCW	50 sps	20	
USKA	21345.0	0917	23	08			J7D		2k7	CIS12 idling only
USKA	28095.0	0802	27	08			FMCW	various	>50k	OTHR Burst system often occupied BW up to 100k

Veron 1 – Netherlands – PA2GRU (Dick)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	DETAILS
VERON	3531,0	19.44	14	8	RUS	REA4	A1A			REA4 = 5F (followed by Dotter)
VERON	3531,0	18.41	15	8	RUS	REA4	A1A			REA4 = 5F (followed by Dotter)
VERON	3608,0	19.48	14	8		UiPTR	F1B			Revs/Ptr
VERON	3785,0	21.37	16	8		UiBC	A3E			Music; bad modulation; S8
VERON	7000,0	06.15	Italy	8		UiILL	J3E-u			Italian, male voices
VERON	7008,0	14.33	30	8		UiPtr	F1B		250	Printer; RUS?
VERON	7038,7	20.38	16	8	RUS	D	A1A			Beacon Sevastopol
VERON	7038,7	17.37	30	8	RUS	D	A1A			Beacon Sevastopol
VERON	7038,7	19.53	8	8	UKR	D	A1A			D-beacon
VERON	7038,7	16.48	6	8	UKR	D	A1A			D-beacon (also at 14/8 19.41 UTC)
VERON	7038,9	20.38	16	8	RUS	S	A1A			Beacon Severomorsk
VERON	7038,9	20.38	30	8	RUS	S	A1A			Beacon Severomorsk
VERON	7038,9	19.53	8	8	RUS	S	A1A			S-beacon
VERON	7038,9	19.42	14	8	RUS	S	A1A			S-beacon
VERON	7039,0	20.10	8	8	RUS	C	A1A			C-beacon
VERON	7039,2	17.03	26	8	RUS	F	A1A			F-beacon
VERON	7050,0	vt	dly	8	UKR	UiBC	A3e			music, Russian songs

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	DETAILS
VERON	7050,0	17.40	13	8	UKR	UiBC	A3E			music, Russian songs
VERON	7120,0	17.38	13	8	SOM	R.Har	A3E			speech
VERON	7169,0	21.21	16	8		UiJam			9k	White noise jammer
VERON	10108,0	14.53	5	8		UiPTR	F1B			Ptr
VERON	10118,0	13.48	16	8	RUS	UiPtr	F1B		250	Printer
VERON	10118,0	19.40	14	8		UiPTR	F1B			Ptr (also at 15/8 08.15 UTC)
VERON	10131,0	vt	vd	8	RUS	UiPtr	F1B		250	Printer
VERON	10131,0	08.41	24	8		UiPTR	F1B			Ptr (also at 25/8 17.20 UTC)
VERON	14008,0	06.33	17	8	RUS	UiPtr	F1B		250	Ptr,
VERON	14008,0	08.38	24	8	CIS	UiPTR	F1B			Carrier/Revs/Ptr
VERON	14064,0	10.40	8	8	RUS	UiPtr	F1B		200	Ptr, Jekatrinburg
VERON	14064,0	08.18	7	8		UiPTR	F1B			Ptr (also at 8/8 08.32 UTC)
VERON	14084,0	13.34	26	8		UiPTR	F1B			Ptr
VERON	14100,0	14.15	29	8		OTHR	FMCW			OTHR
VERON	14108,0	09.40	7	8	RUS	UiCW	A1A			5F qty9 K etc high activity militairy
VERON	14108,0	09.15	25	8	RUS	UiPtr	A1A			5F qty9 K etc high activity militairy
VERON	14108,0	06.54	1	8	RUS	FCSD	A1A			BKEA DE FCSD QTC 376 15 1 1050 376
VERON	14108,0	06.54	1	8	RUS	FCSD	A1A			BT ZVA 005 BT (5BL) 220 RPT L K
VERON	14108,0	07.06	1	8	RUS	FCSD	A1A			TN1F DE FCSD QTC 097 201 1 1104 097
VERON	14108,0	07.06	1	8	RUS	FCSD	A1A			BT ZMT 320 BT (5BL) 320 K
VERON	14108,0	07.11	1	8	RUS	FCSD	A1A			proc
VERON	14108,0	07.39	14	8	RUS	WEGI	A1A			XXX WEGI 48882 KARMEZIN 8951 (etc)
VERON	14108,0	07.46	14	8	RUS	WLHN	A1A			XXX WLHN 95707 23198 51392
VERON	14108,0	07.46	14	8	RUS	WLHN	A1A			WERMONTOP 4078 (etc)
VERON	14108,0	07.49	14	8	RUS	WLHN	A1A			XXX WLHN 36288 50778 17657 ORANICA
VERON	14108,0	07.52	14	8	RUS	G5CX	A1A			XXX G5CX F2ET 91357 91357 54367
VERON	14108,0	07.52	14	8	RUS	G5CX	A1A			BERMANIT 0491 (etc)
VERON	14108,0	07.56	14	8	RUS	GIK8	A1A			W1HA DE GIK8 QBE QRR 3 K
VERON	14108,0	07.05	15	8	RUS	LBIG	A1A			A5ZT DE LBIG 995 19 15 1052 995 BT
VERON	14108,0	07.05	15	8	RUS	LBIG	A1A			617 BT (5BL)
VERON	14108,0	07.19	15	8	RUS	LBIG	A1A			MNG1 DE LBIG + (5BL) RPT AL K
VERON	14108,0	09.00	15	8	RUS	Y1CQ	A1A			Y1CQ QTC AR (many times)
VERON	14108,0	09.13	15	8	RUS	GIK8	A1A			to: ZB5F, MNG1, IP9R, TMLF, W1HA,
VERON	14108,0	09.13	15	8	RUS	GIK8	A1A			A5ZT: (5BL)
VERON	14108,0	09.19	20	8	?	JAM	A1A			tape "russian pirate qsy" for long time
VERON	14108,0	09.26	20	8	?	JAM	A1A			tape 5BL mixed with single figures.
VERON	14108,0	09.26	20	8	?	JAM	A1A			Is NOT rus mil Moscow. Very harmful.
VERON	14116,0	07.58	18	8		UiPTR	F1B			Ptr
VERON	14118,0	08.18	28	8	CIS	UiCW	A1A			5BL (ending 702 K)
VERON	14120,0	14.25	22	8		UiRadar	FMCW		20k	OTHR; 50sps
VERON	14127,0	10.42	13	8		OTHR	FMCW			OTHR
VERON	14139,0	14.30	26	8		UiRadar	FMCW		10k	OTHR; 10sps

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	DETAILS
VERON	14140,0	09.00	26	8		OTHR	FMCW			OTHR
VERON	14141,0	08.35	24	8		UiPTR	F1B			Ptr
VERON	14160,0	20.31	30	8						Frequency hopper
VERON	14160,0	08.12	15	8		UiPTR	F1B			Ptr
VERON	14192,0	17.10	30	8	RUS	UiPtr	F1B		500	Printer
VERON	14192,0	11.33	31	8	RUS	UiPtr	F1B		500	Printer
VERON	14192,0	15.00	5	8	RUS		F1B	50	200	revs, ptr
VERON	14192,0	14.52	5	8		UiPTR	F1B			Revs (also at 27/8 11.02 UTC)
VERON	14234,0	14.38	16	8						Frequency hopper
VERON	14238,0	14.40	26	8		UiRadar	FMCW		12k	OTHR; 50sps
VERON	14238,0	09.00	26	8		OTHR	FMCW			OTHR
VERON	14278,0	10.08	12	8		OTHR	FMCW			OTHR
VERON	14279,0	10.40	11	8		OTHR	FMCW			OTHR
VERON	18070,0	14.20	29	8		OTHR	FMCW			OTHR
VERON	21248,0	11.28	27	8		UiRadar	FMCW		20k	OTHR; 50sps
VERON	21438,0	08.30	9	8	RUS	RCV	A1A			RKZ DE RCV QTC 143 57 9 1146 143 BT
VERON	21438,0	08.30	9	8	RUS	RCV	A1A			(pln wx)
VERON	21438,0	08.22	7	8	RUS	RCV	A1A			RHV42 de RCV K (calls)

The monitoring team of IARU Region 1

credits:

Wavecom Elektronik – Buelach – Switzerland

German PTT (BNetzA = Federal Network Agency)

Many thanks for your interest!

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