



Monitoring System

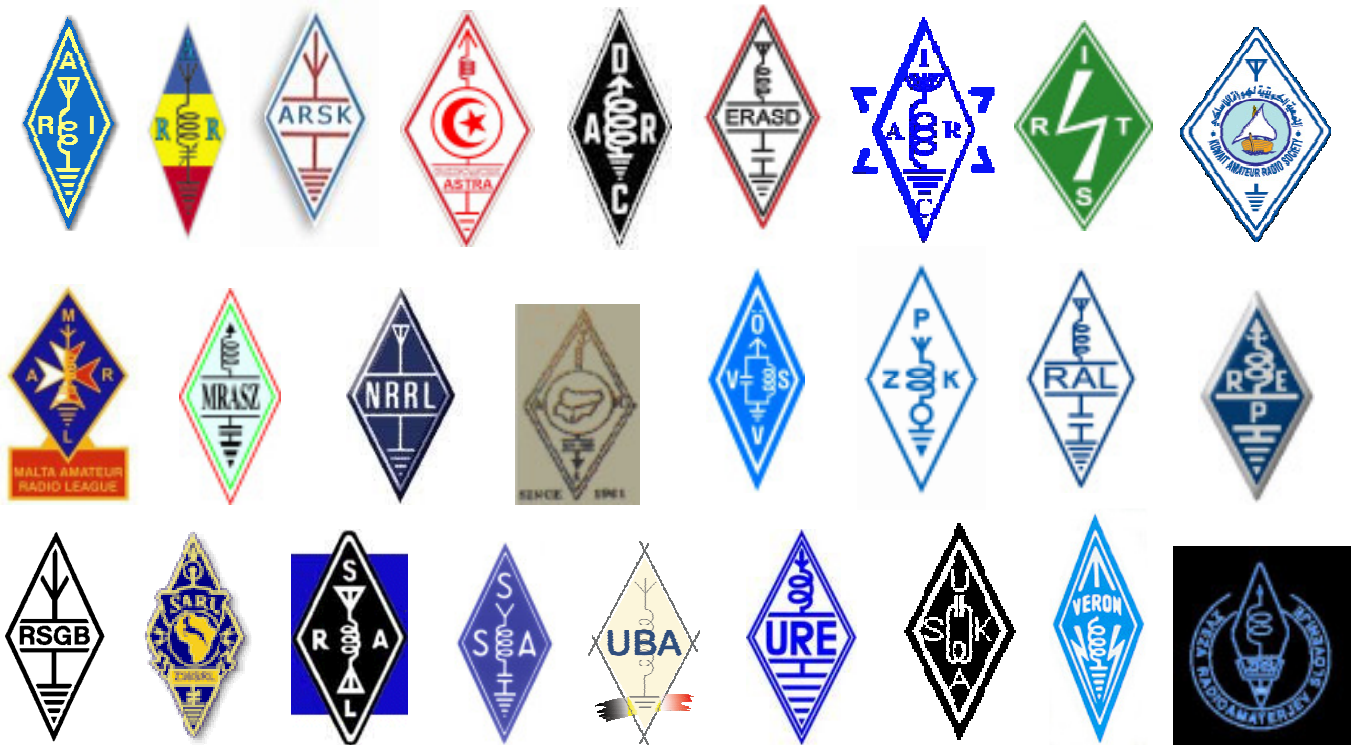
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Co-ordinator of IARUMS Region 1
Editor of the Newsletter

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Vice Co-ordinator of IARUMS Region 1

The monthly newsletter for Region 1

January 2014

The 26 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: EI5DD - Steve ++ KARS: 9K2RR – Faisal ++
++ MARL: 9H1M – Dominic ++ MRASZ: HA7PL - Laci ++ NARS: 5N9AYM – Yusuf ++ NRRL: LA4EU – Hans Arne ++
++ OEVSV: OE3GSA – Gerd ++ PZK: SP3SUZ – Wladyslaw ++ RAL: OD5RI – Riri ++ REP: CT4AN – Jose ++
++ RSGB: G4BOH - Chris ++ SARL: ZS1FCS - Fred ++ 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 (Switzerland), OFCOM (UK) ++ Dutch AT ++ SK6AW – DX-Cluster ++ YO9RIJ - Petrica

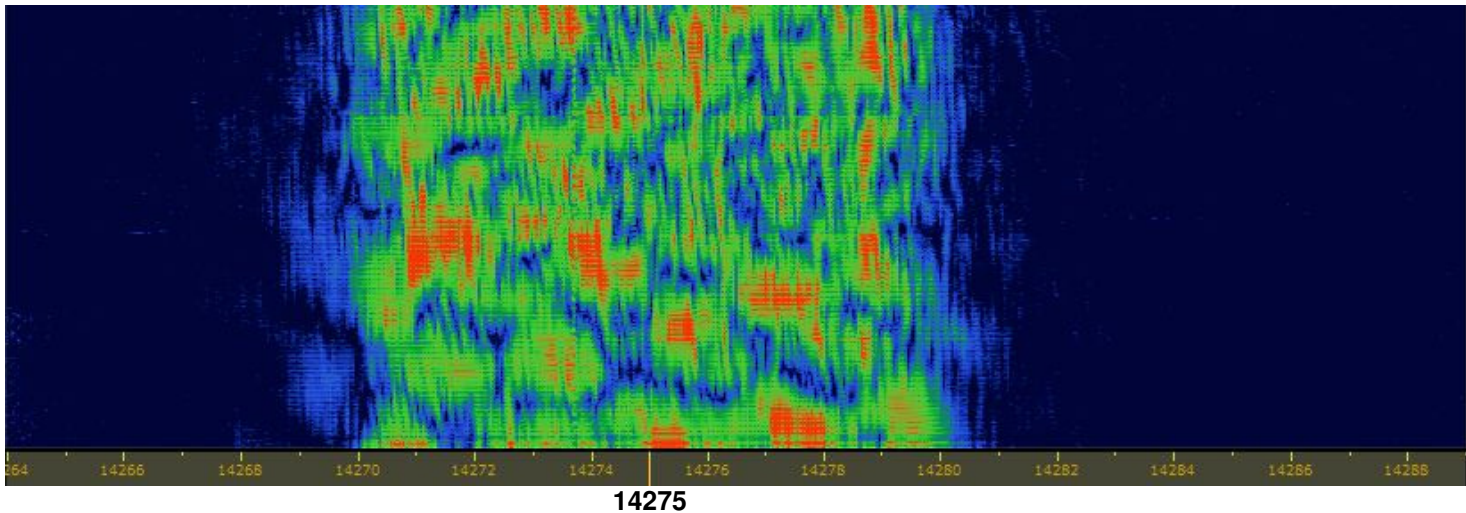
Part 1: News and Infos

1. Russian OTH radar Nizhny Novgorod

The Russian OTH radar Nizhny Novgorod was daily disturbing the 14 MHz-band by long lasting transmissions.

Parameters: 50 sps and 10 kHz wide, many splatters.

Screenshot: DK2OM with Perseus – 14275 kHz centered, dark layers showing selective fading.

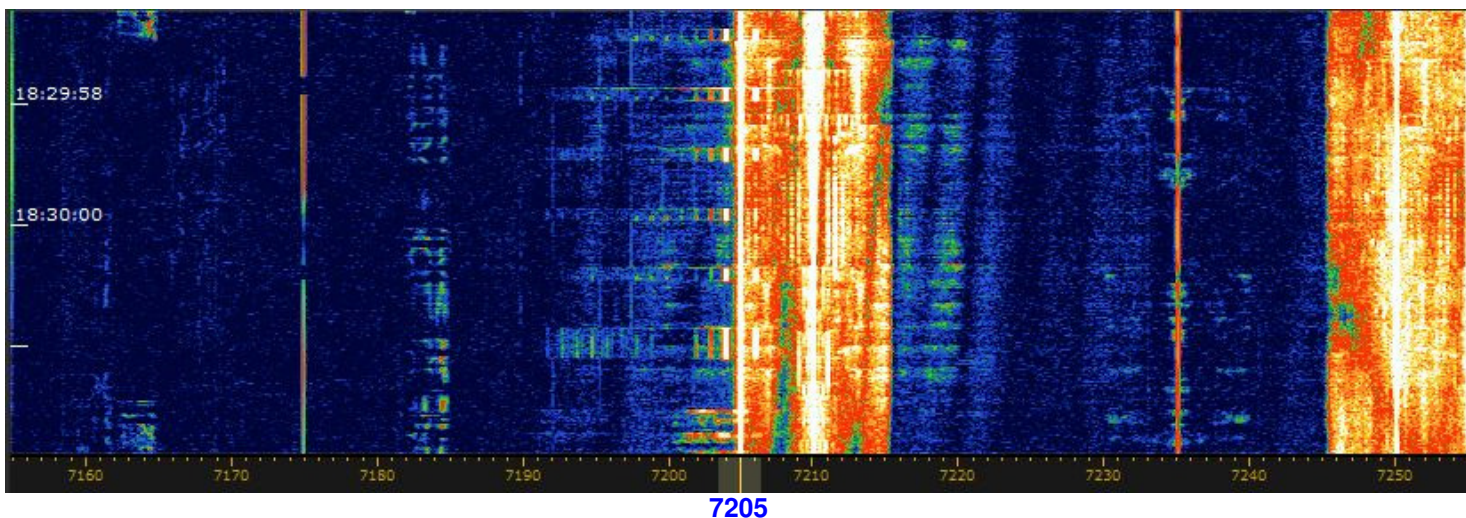


2. Splatters by Voice of Turkey on 7190 kHz

Voice of Turkey transmitted in German language on 7205 kHz every evening from 1830 – 1930 utc producing spurious emissions between 7190 and 7220 (7205 +/- 15 kHz!). I informed the German PTT in Oct./Nov. 2013. They sent an official complaint to Turkey. I checked the VOT transmission on January 26th 2014.

The splatters were still audible and visible on the screen. So I sent a mail to TA1E – Aziz, asking him for help.

The screenshot shows the time signal of VOT on Jan. 12th at 1830 utc. You can see the spurious emissions of the time tones below and above 7205 kHz (carrier QRG). Screenshot: DK2OM with Perseus.



2. CIS taxis – no change as usual

CIS taxis, mostly from Russia, abused the 10 m-band daily and all day. One day they will occupy our 24 MHz-band, too.

3. Fishery traffic on 80, 40 and 20 m-bands

Fishery traffic was audible daily and every evening from 3500 – 3600 kHz on USB. They like frequencies ending on zero. Origin: France, Netherlands, Spain and Italy.

They also liked to use 7000.0 kHz on USB. Another Spanish group was active on 14000.0 kHz on USB.

As you can see: It is necessary to observe our band edges daily.

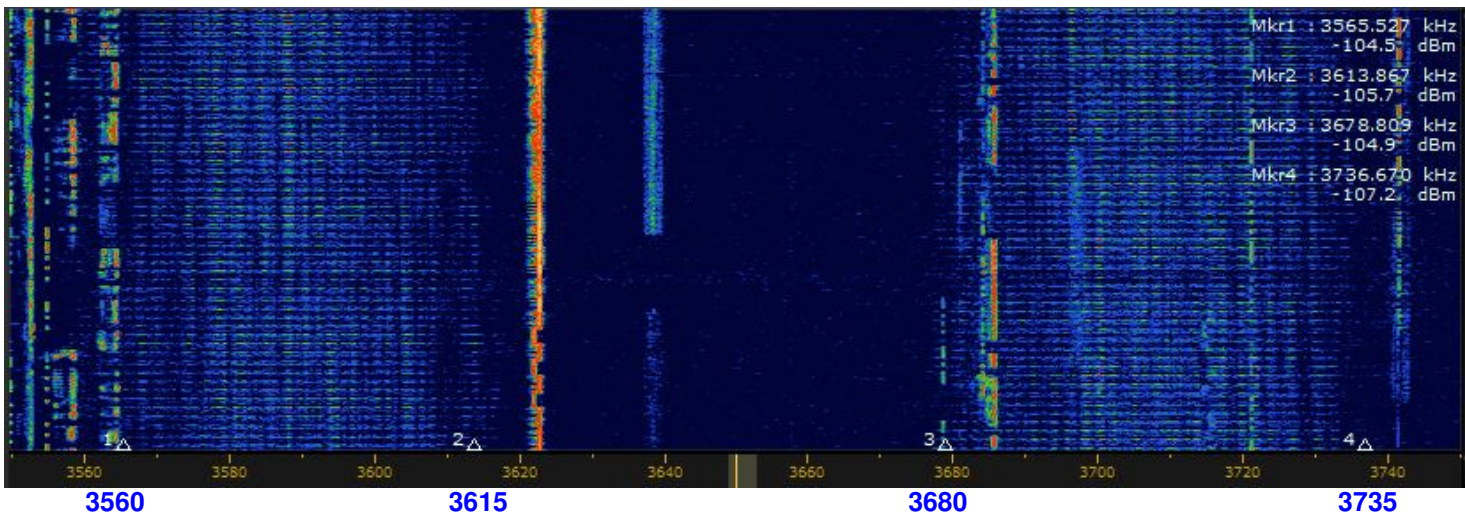
4. CW on 7166 kHz

We found again long lasting CW transmissions (5 letter groups) on 7166 kHz on January 15th. Location: France, area of Paris. Read the comment of Chris, G4BOH:

This appears to be a French military station, possibly a morse practice session! Baldock have got a DF fix to the Loire valley. Complaints have been made to the French authorities and this thing now only appears every few months or so. We have not given up! The next live report to Baldock will result in another complaint, possibly a bit stronger this time.

5. Chinese OTH radars in Region 3:

Chinese OTH radar on 80 m on January 19th at 1100 UTC – received via Japan. Parameters: 43.5 sps, each system 55 kHz wide. Such systems were daily on air! Screenshot: DK2OM

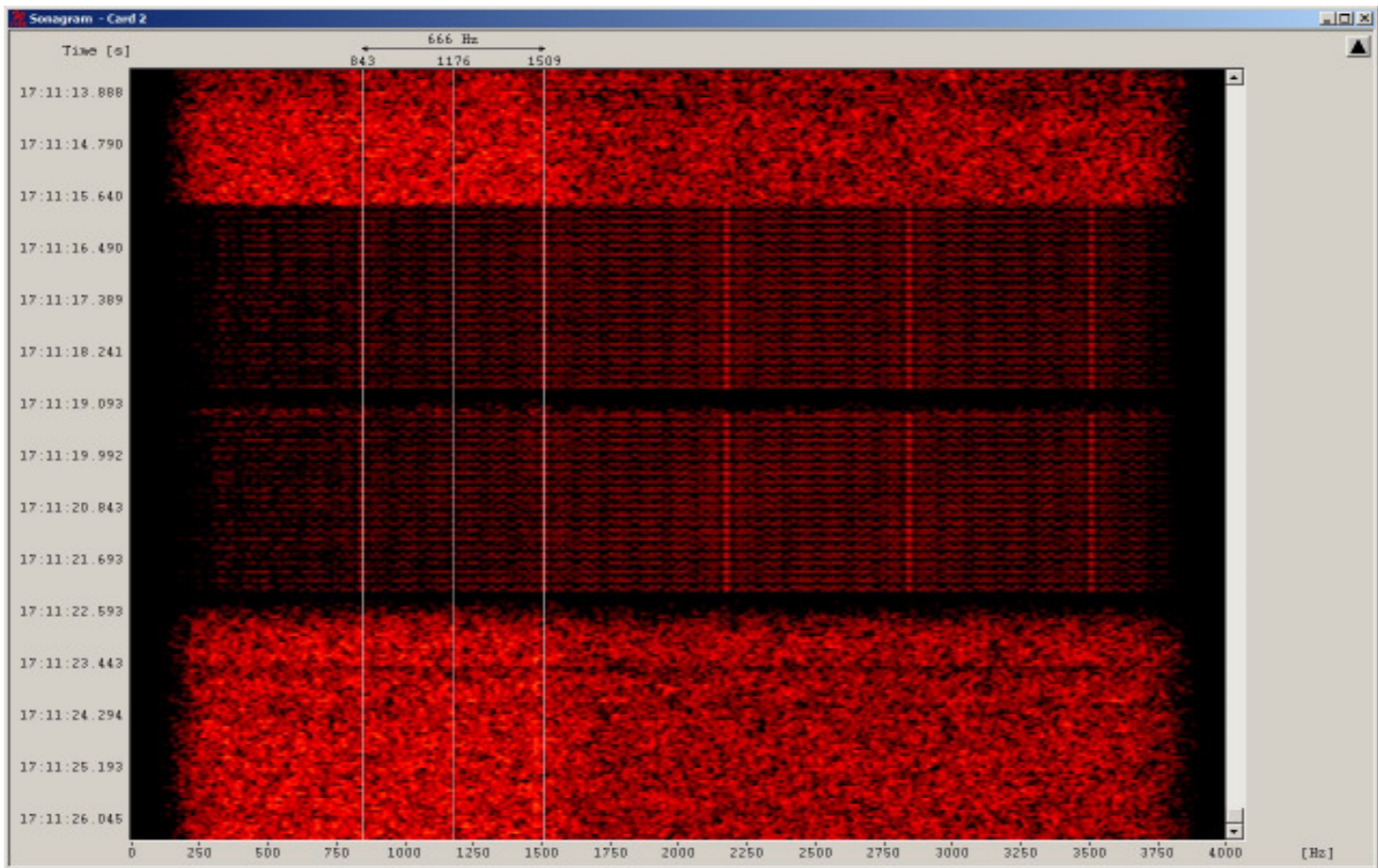


6. SUPERDARN now on 10 MHz-band

SUPERDARN = Super Dual Auroral Radar Network. This burst radar was daily active on 10125, 10135, 10140, 10145 and 10150 kHz and jumping up to 11500 kHz and down again. Parameters: 34 sps – 5 kHz wide
More infos under Wikipedia: http://en.wikipedia.org/wiki/Super_Dual_Auroral_Radar_Network

Screenshot: DK2OM with Wavcom W-Code – The AF sonagram shows typical burst details.

Soundfile: <http://www.iarums-r1.org/iarums/sound/superdarn.wav> recording by DK2OM



7. 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&mlink=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 JANUARY 2014

7195 may be Uganda Radio which broadcasts music, with news and talks in vernacular Luganda), Swahili and English in local daylight hours – about 0630Z to about 1400Z. They have not shut down in spite of numerous protests over a year.

E.H.M. Alleyne, 5Z4NU

ARSK – Kenya – 5Z4NU (Ted)

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

DG0JBJ (Mario) observed 54 OTH radars on 20 m, 83 OTH radars on 15 m and 113 OTH radars on 10 m in January 2014. Russian OTH radars are active again on 20 m with 10 and 50 sps!

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	1812,0	2003	18	01	RUS		USB LSB			14 tones – hyperbolic radio navigation system – BRAS-3/RS-10 – Kaliningrad – daily, all day
DK2OM	1881,4	ady	dly	01	F		QPSK	100	100	BC-PSK – radio navigation – Nantes – daily, all day
DK2OM	1896,5	ady	dly	01	D		PSK8	2400	2400	Stanag4285 – 600 bps long – German Navy – daily, all day
DK2OM	1925,0	vt	dly	01	I	IPL	USB			Livorno Radio, weather reports – daily, vt
DK2OM	3499,3	1655	08	01	CIS		A3E			CIS pirates splattering up
DK2OM	3500,0	1820	22	01	E		USB			Spanish fishery – every evening La Coruna and Bay of Biscay
DK2OM	3500,0	vt	dly	01	TUR		FSK8	120	1750	ALE, “201” - Turkish Red Crescent – legal!
DK2OM	3500,0	1540	06	01	HOL		USB			Dutch fishery – also: 18.0113 at 1540 utc – also: 24.01.2014 at 1625 utc
DK2OM	3500,0	1716	13	01	I		LSB			Italian pirates
DK2OM	3500,0	1839	19	01	I		LSB			Italian women – splattering up
DK2OM	3500,4	1854	14	01	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3500,6	2024	10	01	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3501,0	1940	21	01	CIS		A3E			CIS pirates, unstable carrier

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	3501,5	1938	21	01	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3501,8	1420	21	01			PSK8	120	2600	Stanag4285 -
DK2OM	3502,0	2159	14	01	RUS		F1B	75	250	area of Moscow
DK2OM	3502,0	1528	28	01	RUS		PSK2	120	2600	AT3004D – modem idle – area of Kaliningrad
DK2OM	3503,5	vt	dly	01	G	no ITU	FSK8	125	1750	ALE – “XSS” “XPU” “XJR” – British MIL Tascomm – vt, daily - legal!
DK2OM	3508,5	1708	30	01	RUS		PSK2A	120	2600	AT3004D – submode idle and traffic - Kaliningrad
DK2OM	3511,5	1730	06	01	UKR		PSK2A	120	2600	AT3004D – west of Kiev
DK2OM	3514,0	1624	06	01	RUS		PSK2A	120	2600	AT3004D – modem idle and traffic - Kaliningrad
DK2OM	3517,4	1855	22	01	E		LSB			Spanish fishery
DK2OM	3518,0	1553	23	01	RUS		PSK2A	120	2600	AT3004D - Kaliningrad
DK2OM	3520,0	2004	29	01			USB			man in RUS voice
DK2OM	3520,0	1648	30	01	CHN		FMCW		180k	Chinese OTH radars – 3520 – 3575 kHz and 3630 – 3685 kHz and 3730 – 3855 kHz - 43.5 sps
DK2OM	3522,0	1634	03	01	RUS		F1B	75	200	Kaliningrad
DK2OM	3522,0	0730	08	01	HOL		USB			Dutch fishery
DK2OM	3527,0	1942	04	01	RUS		F1B	50	200	Severomorsk - daily
DK2OM	3528,0	1942	21	01	HOL		USB			Dutch fishery – also: 22.01.2014 at 1830 utc
DK2OM	3529,5	2216	30	01	UKR		PSK2A	120	2600	AT3004D – submode idle and traffic – RUS navy Sevastopol
DK2OM	3530,0	1833	15	01			FSK8	125	1750	ALE, “11141”
DK2OM	3531,5	2052	17	01	UKR		PSK2A	120	2600	AT3004D – submode idle and traffic – area of Lvov
DK2OM	3532,0	1422	21	01	F		PSK4	75	2400	LINK11-CLEW on both sidebands (5800 Hz wide) – area of Brest – legal!
DK2OM	3535,0	1805	06	01	F		USB			French fishery – also: 10.01.14 at 1645 utc
DK2OM	3535,0	1700	14	01	I		USB			Italian fishery
DK2OM	3539,0	1920	22	01	F		USB			French fishery
DK2OM	3550,0	vt	vd	01	ALG		FSK8	125	1750	ALE, “IU50” “IU52” “FN50”
DK2OM	3550,0	vt	dly	01	F		A3E			French amateurs not respecting the bandplans (unstable carriers) – every morning
DK2OM	3550,0	1843	10	01	E		USB			Spanish fishery – also: 12.01.14 at 1004 utc
DK2OM	3550,0	2028	10	01	I		USB			Italian pirates
DK2OM	3550,8	1805	12	01	ISR		PSK4 PSK8	75 2400	2400 2400	hybrid modem – ISR Navy – PSK4 parallel and PSK8 serial – legal operation
DK2OM	3553,8	ady	dly	01	TUR		PSK8	2400	2400	Stanag4285 – TUR MIL - Ankara – legal operation
DK2OM	3556,0	2005	13	01			USB			woman in Russian voice – encrypted announcements
DK2OM	3557,5	1830	14	01	RUS		PSK2A	120	2600	AT3004D - Kaliningrad
DK2OM	3559,0	1930	21	01	RUS		PSK2A	120	2600	AT3004 – submode idle and traffic - Kaliningrad
DK2OM	3560,0	1105	19	01	CHN		FMCW		55k	Chinese OTH radar – 43.5 sps – 3560 – 3615 kHz – disturbing Region 3
DK2OM	3563,0	1847	10	01	RUS		PSK2A	120	2600	AT3004D – submode idle and traffic - Moscow
DK2OM	3565,0	2020	10	01	E		USB			Spanish fishery
DK2OM	3565,8	2015	29	01	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3567,0	1807	18	01	CHN ?		FSK8	125	1750	ALE, “103” “106”
DK2OM	3567,5	1708	22	01	RUS		PSK2A	120	2600	AT3004D – St. Peterburg
DK2OM	3570,0	1740	13	01	F		USB			French fishery
DK2OM	3570,0	1848	15	01	HOL		USB			Dutch fishery
DK2OM	3570,5	1636	27	01	BLR		F1B	81	250	NW Belarus
DK2OM	3574,5	2220	10	01	UKR		PSK2A	120	2600	AT3004D – submode idle and

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										traffic - Sevastopol
DK2OM	3576,0	1745	13	01	I	names	LSB			Italian pirates
DK2OM	3576,4	2050	23	01	I	IZ3DVW	A1A			uncoordinated beacon
DK2OM	3585,0	2000	dly	01	TWN	HLL	FIC			120 rpm, IOC 576, Wxfax - daily - legal!
DK2OM	3586,0	1710	13	01	I	names	LSB			Italian pirates talking about microphones
DK2OM	3587,0	vt	vd	01	E	no ITU	FSK8	125	1750	ALE, "TVV" "TXX" - Spanish Guardia Civil
DK2OM	3590,0	vt	dly	01	PAK	no ITU	FSK8	125	1750	ALE, "KW" "KHAIBAR" - Pakistan navy
DK2OM	3591,0	0720	24	01	F		USB			French fishery
DK2OM	3591,5	1736	12	01	F		OFDM	44.5	1800	OFDM27 - SW France - also: 29.01.2014 at 1750 utc
DK2OM	3595,0	vt	dly	01	D		FSK8	125	1750	ALE - German customs
DK2OM	3596,0	1734	19	01	RUS		PSK2A	120	2600	AT3004D - ship area of Bornholm
DK2OM	3596,0	2004	28	01			FSK8	125	1750	ALE, "
DK2OM	3596,0	vt	dly	01	D, S, HRV		FSK8	125	1750	ALE, "DK3CW" "SA6CBK" "9A0PZ" - just for info!
DK2OM	3598,0	2014	20	01	UKR		PSK2A	120	2600	AT3004D - Sevastopol
DK2OM	3608,0	2018	28	01	RUS		F1B	50	200	Kaliningrad
DK2OM	3617,0	vt	dly	01	HRV	9A5EX	FSK8	125	1750	ALE, "9A5EX" - HAM-ALE - just for info
DK2OM	3621,5	1937	26	01	BLR		F1B	81	285	unclean signal - Brest
DK2OM	3622,5	1934	29	01	J	JMH	FIC			Tokyo Meteo - 120 rpm - IOC576 - daily, legal!!!
DK2OM	3628,0	1450	23	01	CHN		FMCW		60k	Chinese OTH radar - 43.5 sps - 3628 - 3688 kHz and 3712 - 3772 kHz - disturbing Region 3
DK2OM	3630,0	1605	24	01	CHN		FMCW		110k	Chinese OTH radar - 3630 - 3740 kHz - 43.5 sps
DK2OM	3630,0	1538	28	01	CHN		FMCW		90k	Chinese OTH radar - 3630 - 3720 kHz - 87 sps
DK2OM	3642,0	2122	09	01	CHN ?		A1A			endless slip - DKG6 de 3A7D - Chinese military?
DK2OM	3663,0	2020	28	01	G		MFSK	31.25	470	Olivia 16 tones - G4KUJ and G4HPE - emergency net - just for info!
DK2OM	3680,0	1106	19	01	CHN		FMCW		55k	Chinese OTH radar - 43.5 sps - 3680 - 3735 kHz - disturbing Region 3
DK2OM	3691,0	2024	20	01			F1B	50	200	
DK2OM	3705,0	1850	10	01	RUS		FMCW		40k	OTHR - 43.5 sps - 3705 - 3745 kHz - Makhachkala - Caspian Sea
DK2OM	3710,0	1618	26	01	CHN		FMCW		100k	Chinese OTH radar - 3710 - 3810 kHz - 43.5 sps
DK2OM	3712,0	1940	27	01	F		PSK4	75	2400	LINK11-CLEW on both sidebands (5800 Hz wide) - SE of Marseille (ship?)
DK2OM	3715,0	1854	07	01	RUS		FMCW		35k	OTHR - 43.5 sps - 3715 - 3750 kHz - Makhachkala - Caspian Sea
DK2OM	3739,5	1950	27	01			PSK2	120	2600	AT3004D - submode idle -
DK2OM	3750,0	1920	03	01	RUS		FMCW		35k 35k	OTHR - 43.5 sps - 3750 - 3785 kHz and 3795 - 3830 kHz Makhachkala - Caspian Sea
DK2OM	3751,5	vt	dly	01	POL	no ITU	FSK8	125	1750	ALE, "IZ3" "MI3"
DK2OM	3756,0	ady	dly	01	UKR		A3E			UKR - pip - 14 tones - hyperbolic navigation system BRAS-2/RS-10
DK2OM	3758,0	1831	14	01	RUS		FMCW		54k	OTHR - 87 sps - 3758 - 3812 kHz - Makhachkala - Caspian Sea
DK2OM	3760,0	1747	21	01	RUS		FMCW		55k	OTHR - 43.5 sps - 3760 -

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										3815 kHz -- Makhachkala - Dagestan – Caspian Sea – also: 25.01.2014 at 1940 utc and 29.01.2014 at 1810 utc
DK2OM	3760,0	1824	23	01	RUS		FMCW		55k	OTHR – 43.5 sps – 3760 – 3815 kHz - Makhachkala – Caspian Sea
DK2OM	3761,5	vt	vd	01	POL		FSK8	125	1750	ALE, “NI9” “PL7” “AB2” – Polish MIL
DK2OM	3765,0	1945	11	01	RUS		FMCW		85k	OTHR – 43.5 sps – 3765 – 3850 kHz - Makhachkala – Caspian Sea – 2 systems synchronous
DK2OM	3770,0	2055	01	01	RUS		FMCW		60k	OTHR – 43.5 sps – 3770 – 3830 kHz – Makhachkala – Caspian Sea – also: 29.12.13 at 2230 utc
DK2OM	3777,0	1938	13	01			A1A			H2FL de DRV8 – endless slip
DK2OM	3782,0	ady	dly	01	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	01	D	DK0ESD	FSK8	125	1750	ALE, “DK0ESD” – just for info!
DK2OM	3797,0	1936	13	01			A1A			H2FL de DRV8 – endless slip
DK2OM	6999,0	1808	27	01	G		USB			pirates in English voice, splattering up
DK2OM	7000,0	2015	04	01	UKR	D	A1A			Cluster beacon – Sevastopol RUS Navy – “RCV” - daily
DK2OM	7000,0	1645	03	01	E		USB			Spanish fishery, sometimes with vocoder CRY 2001 – also: 31.01.2014 at 1755 utc
DK2OM	7000,0	1127	09	01	INS		LSB USB			Indonesian pirates singing, chatting a d playing music – audible in Europe every afternoon and evening
DK2OM	7000,0	0950	19	01	I		USB			Italian pirates – “Marco”
DK2OM	7000,0	1815	29	01	E		USB			Spanish fishery with vocoder CRY 2001
DK2OM	7000,0	1840	29	01	?		FSK8	125	1750	ALE, “210” “20989”
DK2OM	7001,0	0956	23	01			A1A			encrypted CW
DK2OM	7010,0	0933	29	01	CHN		FMCW		60k	Chinese OTH radar 43.5 sps – 6950 – 7010 kHz - long lasting
DK2OM	7015,9	0703	15	01	RUS		F1B	100	500	unstable – Kronstadt ?
DK2OM	7016,0	0635	15	01	RUS		PSK2A	120	2600	AT3004D - Moscow
DK2OM	7018,0	ady	dly	01	RUS		F1B	50	1000	most of the time idle – Russian airforce Moscow – – ident at full hour + 41 min – daily, all day
DK2OM	7020,0	vt	vd	01			FSK8	125	1750	ALE, “CS5004A” “RS0013D” – NC3A network? – area of Kosovo
DK2OM	7020,0	vt	dly	01	INS		USB LSB			Indonesian pirates – village radio - daily
DK2OM	7022,0	1008	24	01	RUS		PSK2	120	2600	AT3004D – modem idle - Kaliningrad
DK2OM	7025,0	1833	23	01	CHN		FMCW		10k	Chinese OTH radar 48 sps – 5.4 sec bursts
DK2OM	7030,0	0802	03	01	RUS		F1B	75	250	Kaliningrad
DK2OM	7032,0	2118	10	01	RUS		PSK2A	120	2600	AT3004D - Smolensk
DK2OM	7038,7	1340	01	01	UKR	D	A1A			Cluster beacon – Sevastopol RUS Navy – “RCV”
DK2OM	7038,8	1341	01	01	RUS	P	A1A			Cluster beacon – Kaliningrad RUS Navy – “RMP”
DK2OM	7038,9	1450	01	01	RUS	S	A1A			Cluster beacon – Severomorsk RUS Navy – „RIT“
DK2OM	7039,0	1451	01	01	RUS	C	A1A			Cluster beacon - Moscow RUS Navy - “RIW”
DK2OM	7039,1	---	---	01	KGZ	A	A1A			Cluster beacon – Bishkek RUS

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										Navy – “RJH25”
DK2OM	7039,2	---	---	01	RUS	F	A1A			Cluster beacon - Vladivostok RUS Navy - “RJS”
DK2OM	7039,3	---	---	01	RUS	K	A1A			Cluster beacon - Petropavlovsk Kamchatskiy - RUS Navy - Pacific fleet - “RCC”
DK2OM	7039,4	2028	06	01	RUS	M	A1A			Cluster beacon – Magadan RUS Navy – „RTS“
DK2OM	7039,95	ady	dly	01	I	IZ3DVW	A1A			IZ3DVW – uncoordinated beacon, daily, all day
DK2OM	7040,0	vt	dly	01	F	F6BAZ	FSK8	125	1750	ALE, “F6BAZ” – just for info
DK2OM	7040,5	vt	dly	01	HRV		FSK8	125	1750	ALE, “9A5EX” “9A0ALE” – just for info
DK2OM	7045,0	1656	30	01	CHN		FMCW		10k	Chinese OTH radar 66.6 sps - 3.8 sec bursts
DK2OM	7049,5	vt	dly	01	HRV G F	9A0ALE M1DFO F6BAZ	FSK8	1250	1750	Amateur ALE, just for info!
DK2OM	7051,0	1420	26	01	I		LSB			Italian amateurs not respecting the bandplans
DK2OM	7054,0	---	---	01	RUS		F1B	50	200	CIS50-50 - RUS Navy Moscow – not active
DK2OM	7054,0	0655	20	01	RUS		PSK2A	120	2600	AT3004D – modem idle and TX-test? – A1A traffic – Nizhny Novgorod an Kazan
DK2OM	7055,5	vt	vd	01	GEO		FSK8	125	1750	ALE, “111” “132” “133” - Georgia
DK2OM	7060,0	2150	14	01	FEa		FMCW		32k	CODAR like ocean radar with 2.5 sps – 7060 – 7092 kHz - daily
DK2OM	7061,0	1050	07	01	FEa		FMCW		30k	CODAR like ocean radar with 2.5 sps – 7061 – 7091 kHz
DK2OM	7065,0	1534	09	01	CHN		FMCW		10k	Chinese OTH radar 66.7 sps – 3.9 sec bursts – jumping – audible in Europe, USA west- coast and Australia
DK2OM	7066,0	1830	23	01	FEa		FMCW		33k	CODAR like ocean radar with 2.5 sps – 7066 – 7099 kHz
DK2OM	7068,0	1930	30	01	CHN		FMCW		10k	Chinese OTH radar 66.66 sps – 3.8 sec bursts
DK2OM	7070,0	vt	dly	01	GEO	no ITU	FSK8	125	1750	ALE, “MV” “244” “686” “334” “204” “571” – daily active
DK2OM	7077,4	2245	04	01	UKR	D	A1A			Cluster beacon – Sevastopol RUS Navy – “RCV” – spurious from 7038.7 kHz
DK2OM	7084,0	1920	23	01	CHN		FMCW		10k	Chinese OTH radar 48 sps – 5.4 sec bursts
DK2OM	7088,8	vd	vt	01	S	SL0FRO	A1A			7088.830 - cw-trainee, Sweden – kHz – SL0FRO - just for info!
DK2OM	7089,0	0744	07	01	RUS		PSK2A	120	2600	AT3004D – submode idle and traffic - Voronezh
DK2OM	7090,0	1920	02	01	CHN		FMCW		10k	Chinese OTH radar 66.7 sps – 3.8 sec bursts
DK2OM	7090,0	0235	08	01	RUS		PSK2	120	2600	AT3004D – Russian ship Aegean region
DK2OM	7096,0	0100	07	01	MEa		PSK4	75	5800	Link11 CLEW – DSB – Gulf of Oman – also: 08.01.2014
DK2OM	7098,0	0900	01	01	RUS		F1B	75	250	Moscow – also: 23.01.2014 at 0955 utc
DK2OM	7099,5	vt	dly	01	HRV	9A0ZG	FSK8	125	1750	ALE, “9A0ZG” “9A5EX” “9A0OS” – daily - just for info!
DK2OM	7100,0	1007	05	01	CHN		FMCW		40k	Chinese OTH radar 43.5 sps – 7100 – 7140 kHz - also on 06.01.14 at 1505 utc
DK2OM	7102,0	vt	dly	01	HRV SUI	9A0ALE	FSK8	125	1750	ALE, “9A0ALE” “HB9MHB” “9A0ZG” “DK0ESD” – just for

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
					D					info!
DK2OM	7105,0	2200	05	01	CHN		unid		7.5k	broadband digital signal – 7105 kHz center – daily at 2200 - 2300 utc – jammer? – West-China
DK2OM	7110,0	vt	dly	01	HRV	9A0ALE	FSK8	125	1750	ALE, “9A0ALE” – just for info
DK2OM	7110,0	1554	26	01			FSK8	125	1750	ALE, “1101” “1112”
DK2OM	7119,0	2315	06	01	CHN		PSK4	44.44		PRC-39 tone – ARQ burst – SW China – long lasting
DK2OM	7119,3	1928	10	01	CHN		OFDM	60	2400	OFDM32 bursts – daily, all day
DK2OM	7120,0	1700	dly	01	SOM		A3E		9k	Radio Hargaysa Somalia, daily
DK2OM	7120,0	0400	10	01	SOM		A3E			Radi Hargaysa - with spurious on 7048, 7084, 7156 and 7192
DK2OM	7137,0	1803	19	01	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	7143,8	2340	06	01	AFG		F1B	100	170	Codan Selcal – “8888 de 1722”
DK2OM	7154,0	1655	30	01	CHN		FMCW		10k	Chinese OTH radar 66.6 sps – 3.5 sec bursts
DK2OM	7155,0	1537	09	01	CHN		FMCW		10k	Chinese OTH radar 66.7 sps – 3.9 sec bursts – jumping – audible in Europe, USA west-coast and Australia
DK2OM	7165,5	0010	07	01	UZB		PSK8	2400	2400	MIL-188-110A - Uzbekistan
DK2OM	7166,0	0035	07	01	FEa		USB			Bay of Bengal
DK2OM	7166,0	1858	15	01	F		A1A			5 letter groups – area of Paris
DK2OM	7175,0	2015	27	01	CHN		A3E			2 transmitters – SOH and CNR?
DK2OM	7178,0	2109	10	01	RUS		PSK2	120	2600	AT3004D - Severomorsk
DK2OM	7185,5	vt	dly	01	D HRV		FSK8	125	1750	ALE, “9A5EX” “DK0ESD” just for info - daily
DK2OM	7193,0	0927	28	01	RUS		F1B	50	200	Kaliningrad
DK2OM	7195,0	0822	02	01	RUS		PSK2A	120	2600	AT3004D - Kaliningrad
DK2OM	7197,0	1958	11	01	TUR		FSK8	125	1750	ALE, “8241” “206102” “8151” “3021” “3761” “8021” “8141” “3061” “3241” “8411” – Turkish Sivil Avunma = Turkish Civil Defense - source: DL8AAM
DK2OM	7197,0	1532	28	01	UKR		PSK2A	120	2600	AT3004D – Sevastopol – RUS navy
DK2OM	7200,0	2200	dly	01	CHN TWN		A3E			Sound of Hope TWN and Chinese jammer -daily
DK2OM	10100,8	ady	dly	01	D		F1B	50	450	Baudot - German Weatherservice – legal!
DK2OM	10101,0	2230	21	01	MRC		USB			Moroccan fishery - daily
DK2OM	10112,0	ady	dly	01	TUR		PSK8	2400	2400	Stanag4285 – 600 bps long – NE of Izmir
DK2OM	10113,0	vt	dly	01	TUN	no ITU	FSK8	125	1750	ALE, “TUD”
DK2OM	10114,8	0630	dly	01	RUS		F1B	100	1000	CIS14 – Penza - daily
DK2OM	10115,0	vt	vd	01			FSK8	125	1750	ALE, “2001” “2002”
DK2OM	10123,0	0902	13	01	ALG	no ITU	FSK8	125	1750	ALE, “CM3” “COF” “BSF”
DK2OM	10126,0	2110	15	01			FMCW		5k	Superdarn ionospheric radar
DK2OM	10130,0	2224	26	01	MRC		FSK8	125	1750	Thales 3000 – West Sahara – daily - vt
DK2OM	10130,0	1814	20	01	MRC		USB			Moroccan fishery
DK2OM	10130,0	2220	26	01	CYP		FMCW		20k	OTH radar Cyprus – 50 sps
DK2OM	10130,0	2123	15	01			FMCW		5k	Superdarn ionospheric radar
DK2OM	10134,6	vt	dly	01	F		FSK8	125	1750	Thales 3000 bursts – South France
DK2OM	10136,0	1507	12	01	ALG		FSK8	125	1750	ALE, “CM3” “BLD” “CNC” “TF2”
DK2OM	10136,0	1500	21	01	RUS		F1B	50	200	Far East Russia
DK2OM	10144,0	ady	dly	01	D	DK0WCY	A1A			10143.986 kHz - DK0WCY –

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										German aurora beacon – just for info!
DK2OM	10145,0	2122	15	01			FMCW		5k	Superdarn ionospheric radar
DK2OM	10145,5	0944	14	01	HRV S / D F	9A5EX	FSK8	125	1750	ALE, “9A5EX” “SM5VRH” “DK0ESD” “F6BAZ” - just for info - daily
DK2OM	10150,0	2001	13	01			FMCW			Superdarn ionospheric radar
DK2OM	14000,0	1945	10	01			USB			pirates in Portuguese voice
DK2OM	14000,0	1350	15	01	E		USB			Spanish fishery – La Coruna with ship Bay of Biscay - daily
DK2OM	14000,0	1450	16	01	MRC		USB			Moroccan fishery
DK2OM	14000,0	1103	17	01	G		FMCW			UK OTH radar “Cobra Mist”
DK2OM	14001,0	vt	dly	01	CHN		FSK8	125	1750	ALE, “397”
DK2OM	14001,2	1525	09	01	INS		USB			Indonesian pirates – also: 25.01.2014 – at 1630 utc
DK2OM	14036,0	ady	dly	01	RUS		F1B	100	2000	harmonic from 7018 – REA4 - Moscow
DK2OM	14060,0	vt	vd	01	ISR		FSK8	125	1750	ALE, “AAA” - Israel
DK2OM	14084,0	1040	13	01	RUS		F1B	75	250	Moscow
DK2OM	14086,0	0947	23	01	RUS		PSK2	120	2600	AT3004D – submode idle - Moscow
DK2OM	14109,0	1503	23	01	ISR	4X1	FSK8	125	1750	ALE, “4X1” “CT2IXQ” – just for info!
DK2OM	14140,0	1047	02	01	RUS		FMCW		10k	OTH radar with 50 sps – Nizhniy Novgorod – long lasting – also audible in USA east-coast, Japan, Australia
DK2OM	14141,0	0925	14	01	RUS		F1B	75	200	Moscow
DK2OM	14162,0	0815	19	01	RUS		PSK2A	120	2600	AT3004D - Moscow
DK2OM	14175,0	1337	01	01	RUS		FMCW		10k	Russian OTH radar with 50 sps – Nizhny Novgorod
DK2OM	14192,0	0940	14	01	RUS		F1B	50	400	RUS Navy Kaliningrad
DK2OM	14200,0	0900	19	01	RUS		F1B	50	250	broadband QRM on 14200 – 14350 from Russian F1B on 14404
DK2OM	14205,0	vt	dly	01		no ITU	FSK8	125	1750	ALE, “505” “822” – 60 deg. from DL - CHN ?
DK2OM	14222,0	0710	15	01	RUS		PSK2A	120	2600	AT3004D - Moscow
DK2OM	14242,0	0600	07	01	UKR		PSK2A	12	2600	AT3004D - Sevastopol
DK2OM	14260,0	vt	dly	01	SRB		FSK8	125	1750	ALE, “YU1BI” – just for info!
DK2OM	14262,0	1353	05	01	RUS		FMCW		10k	OTH radar – 50 sps – Nizhny Novgorod – even audible in USA east-coast
DK2OM	14265,0	vt	vd	01	TUR		FSK8	125	1750	ALE, “526”
DK2OM	14275,0	0740	11	01	RUS		FMCW		10k	OTH radar Nizhny Novgorod – 50 sps
DK2OM	14280,0	vt	Wed	01	UKR		A3E			female voice with encrypted msgs – figures – “SZRU” = Foreign Intelligence Service of Ukraine at Rivne
DK2OM	14285,0	1102	20	01	RUS		F1B	53.8	500	Far East Russia
DK2OM	14295,0	vt	dly	01	SRB	YU1BI	FSK8	125	1750	ALE, “YU1BI” – just for info!
DK2OM	14295,1	ady	dly	01	TJK		A3E			3 rd from Radio Tajik on 4765 kHz
DK2OM	14299,0	1543	06	01	ISR		A1A			v v v de 4XZ – ISR navy
DK2OM	14300,0	1433	21	01	RUS		FMCW		20k	OTH radar with 10 sps – Nizhny Novgorod
DK2OM	14305,0	1339	01	01	RUS		FMCW		10k	OTH radar with 50 sps – Nizhny Novgorod
DK2OM	14317,0	vt	vd	01	UKR	RCV	A1A			RUS naval base Sevastopol - encrypted, cyrillic letters
DK2OM	14317,8	0820	19	01	CHN		MFSK	44.6	2300	PRC 39 tones - parallel
DK2OM	14322,0	vt	dly	01	CHN		FSK8	125	1750	ALE, “402”
DK2OM	14328,0	vt	dly	01	CHN		FSK8	125	1750	ALE, “139” “534” “772” – West China
DK2OM	14330,0	vt	dly	01			FSK8	125	1750	ALE, “BV4”
DK2OM	14344,7	vt	dly	01	CHN		PSK8	2400	2400	preamble similar MIL-188-110A - 600 bps short –

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										14344.650 kHz – daily, all day
DK2OM	14346,0	vt	dly	01	HRV RUS D		FSK8	125	1750	ALE, “9A0ZG” “RX3ARZ” “DK0ESD” – just for info – various times, daily
DK2OM	14346,0	vt	dly	01	THA	HS0ZEA	A1A			HS0ZEA beacon – 14345.950 kHz - every 5 minutes – just for info!
DK2OM	18075,0	1400	10	01	CYP		FMCW		20k	OTH radar Cyprus – 50 sps – also: 13.01.2014 at 1057 utc
DK2OM	18085,0	1404	14	01	CYP		FMCW		20k	OTH radar Cyprus – 50 sps
DK2OM	18100,0	vt	dly	01	MRC	no ITU	FSK8	125	1750	ALE, “C3” “R3”
DK2OM	18107,0	vt	vd	01	RUS	RDL	F1B	50	200	Moscow – idle and traffic – Russian navy – various days and times – legal operation
DK2OM	18140,0	vt	dly	01	SRB	YU1BI	FSK8	125	2600	ALE, “YU1BI” – just for info!
DK2OM	21000,0	1700	15	01	B		USB			Brazilian pirates – Rio de Janeiro with North Brazil – now daily after 1500 utc
DK2OM	21000,0	vd	vd	01	E		USB			Spanish fishery, Galician voice, daily, various times
DK2OM	21000,0	1400	dly	01	INS		USB			Indonesian pirates – daily
DK2OM	21000,0	1450	09	01	SDN		USB			MFA Sudan – Khartoum with emba Yemen – voice traffic
DK2OM	21000,0	1032	15	01	F		FMCW		20k	OTH radar – 2.5 sps - South France – sounding similar to CODAR – also: 1602, 1632 utc – 3 minutes duration – also: 24.01.2014 at 1549 utc
DK2OM	21000,0	1147	23	01	RUS		FMCW		20k	OTH radar Nizhny Novgorod – 10 sps
DK2OM	21000,0	1027	31	01	MRC		USB			Moroccan fishery
DK2OM	21002,1	1450	09	01	SDN	!0000	F1B	100	170	21002.15 kHz - Factor 1 encrypted – MFA Sudan – Khartoum with emba Yemen
DK2OM	21090,0	1155	20	01	CYP		FMCW		20k	OTH radar Cyprus – 50 sps
DK2OM	21096,0	vt	dly	01	INS	YD00XH	FSK8	125	1750	ALE, “YD00XH3” – daily, various times - just for info!
DK2OM	21110,0	0943	04	01	RUS		USB			Russian fellows – no callsigns
DK2OM	21140,8	vt	vd	01	MEa		PSK8A	2400	2400	MIL-188-141B –App.C – daily, various times
DK2OM	21145,0	1204	16	01	MRC		FSK8	125	1750	ALE, “B301”, “C3”, “IR4” “T4” “E4” “A2” “CD” “K3” “KB2” “J5” “GS4” – various times, daily
DK2OM	21192,0	1126	12	01	RUS		F1B	50	1000	harmonic from 10596 kHz
DK2OM	21206,0	0806	18	01	AUS		FMCW		10k	Australian OTH radar JORN – various sweeprates
DK2OM	21269,0	0935	25	01						frequency hopper
DK2OM	21270,0	1225	20	01	CYP		FMCW		20k	OTH radar Cyprus – 50 sps
DK2OM	21271,5	0715	19	01	CHN		PSK4	75	2250	PRC 4+4 – East China
DK2OM	21295,0	0946	30	01	AUS		FMCW		10k	Australian OTH radar JORN
DK2OM	21310,0	1150	20	01	CYP		FMCW		20k	OTH radar Cyprus – 50 sps
DK2OM	21318,4	0930	25	01	RUS		F1B	600	600	DPRK-FSK 600 – North Korean emba Moscow
DK2OM	21400,0	0751	27	01	RUS		F1B	50	2000	harmonic from 5350 kHz – area of Moscow - daily
DK2OM	21400,0	1130	12	01	CHN		FMCW		10k	Chinese OTH radar 66.7 sps – 1.9 sec bursts
DK2OM	21438,0	1050	02	01	UKR	RCV	A1A			RIP90 de RCV - RUS Navy Sevastopol - daily
DK2OM	21446,0	ady	dly	01	THA	HS0ZEA	A1A			HS0ZEA beacon – every 5 minutes - just for info!
DK2OM	24982,0	0954	12	01	CHN		FMCW		10k	Chinese OTH radar 66.7 sps – 1.9 sec bursts
DK2OM	25000,0	ady	dly	01	FIN		A3E			time signal Helsinki – just for info – carrier on 25000 – dots on 25001 and 24999 – daily, all day

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	28000,0	vt	dly	01	CIS		F3E			28000 – 29700 numerous CIS taxi nets – mostly Russia
DK2OM	28000,0	ady	dly	01	B		A3E			Brazilian CBers – 28000 - 28315
DK2OM	28003,0	1058	18	01						frequency hopper
DK2OM	28005,0	ady	dly	01	RUS		F3E			taxi net St. Peterburg, daily, all day
DK2OM	28020,0	1345	01	01	CYP		FMCW		20k	OTH radar Cyprus – 25 sps
DK2OM	28025,0	1427	13	01	POR		F1B	51	320	F1B bursts - west of Lisbon – daily
DK2OM	28030,0	1456	13	01	POR		F1B	51	320	F1B bursts - west of Lisbon
DK2OM	28035,0	vt	dly	01	RUS		F3E			taxi Moscow - daily
DK2OM	28036,7	0920	03	01	E		A3E			Spanish truckdrivers
DK2OM	28040,1	vt	dly	01	POR		F1B	51	320	F1B bursts - west of Lisbon – Enagal GPS buoys
DK2OM	28050,0	0759	11	01	CYP		FMCW		20k	OTH radar Cyprus – 25 sps – even audible in New Zealand
DK2OM	28055,0	vt	dly	01	RUS		F3E			taxi Moscow - daily
DK2OM	28065,0	vt	dly	01	RUS		F3E			taxi Moscow - daily
DK2OM	28085,0	1026	14	01	POR		F1B	51	320	F1B bursts - west of Lisbon – Enagal GPS buoys - daily
DK2OM	28085,0	0818	23	01	FEa		A3E			Far East pirates
DK2OM	28100,2	1448	13	01	POR		F1B	51	320	F1B bursts - 28100.160 kHz - west of Lisbon – Enagal GPS buoys - daily
DK2OM	28105,0	vt	dly	01	RUS		F3E			taxi Moscow
DK2OM	28115,0	vt	dly	01	RUS		F3E			taxi - Moscow - daily
DK2OM	28135,0	vt	dly	01	RUS		F3E			taxi – Barnaul - daily
DK2OM	28146,0	vt	vd	01	ARG B		FSK8	125	1750	ALE, “LU8EX” “PY2TI” “DL1” – just for info!
DK2OM	28155,0	1344	14	01						frequency hopper
DK2OM	28168,0	1039	13	01	RUS		F1B	75	500	harmonic from 14084.0 ! - Moscow
DK2OM	28205,0	vt	dly	01	RUS		F3E			taxi Moscow
DK2OM	28215,0	vt	dly	01	RUS		F3E			taxi Moscow
DK2OM	28255,0	vt	dly	01	RUS		F3E			taxi Moscow
DK2OM	28265,0	vt	dly	01	RUS		F3E			taxi Moscow
DK2OM	28265,0	0920	06	01	FEa		A3E			Far East pirates
DK2OM	28280,0	1100	22	01	RUS		FMCW		20k	OTH radar Nizhny Novgorod – 10 sps
DK2OM	28305,0	vt	dly	01	RUS		F3E			taxi - Arkhangelsk
DK2OM	28367,0	1340	14	01	IRN		FMCW		50k	OTH radar Iran – 307 and 870 sps - jumping
DK2OM	28400,0	1055	13	01	IRN		FMCW		50k	OTH radar Iran – 307 and 870 sps
DK2OM	28600,0	1015	10	01	IRN		FMCW		50k	OTH radar Iran – 307 and 870 sps – even audible in New Zealand
DK2OM	28670,0	1419	07	01	IRN		FMCW		50k	OTH radar Iran – 307 and 870 sps
DK2OM	29250,0	---	--	01	E		F1B	81.9	140	Datawell-buoy “Waverider” – 29249.905 kHz – Fuerteventura - daily, all day
DK2OM	29375,0	---	--	01	I		F1B	81.9	140	Datawell-buoy “Waverider” – 29374.898 kHz – Galatone, South Italy - daily, all day
DK2OM	29387,5	---	--	01	IND		F1B	81.9	140	Datawell-buoy “Waverider” – 29387,460 kHz – Indian NW coast, close to Pakistan - daily, all day
DK2OM	29450,0	1150	02	01	MRC		F1B	81.9	140	Datawell-buoy “Waverider” – 29449.870 kHz - area of El Aaiun – Morocco - daily, all day
DK2OM	29500,0	---	--	01	G		F1B	81.9	140	Datawell-buoy “Waverider” – area of Gibraltar – daily, all day
DK2OM	29525,0	---	---	01	MRC		F1B	81.9	140	Datawell-buoy “Waverider” –

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										29524.990 kHz - Agadir - Morocco – daily, all day
DK2OM	29684,8	---	---	01	I		serial			serial modem, Italian MIL Brescia – Sporadic E!
DK2OM	29699,8	---	---	01	I		serial			serial modem, Italian MIL Brescia – Sporadic E!

IRTS – Ireland – EI5DD (Steve)

KARS – Kuwait – 9K2RR (Faisal)

MRASZ – Hungary - HA7PL (Laci)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	DETAILS
MRASZ	3508,0	2035	09	1			USB		figs, russian l. 1-0 also on 17,30,31
MRASZ	3510,0	1721	23	1			A3E		music, + hrd on 30 at 1800 UT
MRASZ	3514,5	1854	07	1			LSB		russian „BORIS BORIS” → UR5GBB
MRASZ	3517,1	2356	18	1			A1A		„19T28 K” „T6617 58465 6773.. 67838”
MRASZ	3524,0	1722	01	1			A1A		dotter
MRASZ	3550,0	0649	11	1			A3E		french language
MRASZ	3589,6	2020	21	1			N0N		59+40dB, also on 23
MRASZ	3593,7	2048	20	1	UKR	D	A1A		"D" beacon hrd on 21,22,27,28,31
MRASZ	3593,9	2053	21	1	RUS	S	A1A		"S" beacon, hrd on 22,
MRASZ	3604,1	2006	27	1			F1B	250	
MRASZ	3642,0	1913	21	1			A1A		„V DKG6 de 3A7D”
MRASZ	3658,0	1739	10	1	UZB	V	A1A		„V” beacon, on 20,21,22,23,24,27,29,30
MRASZ	3750,0	2329	18	1			OTHR		
MRASZ	6999,0	1746	27	1			USB		ui.language
MRASZ	7000,1	1606	11	1	UKR	D	A1A		"D" beacon hrd on 20,24,27
MRASZ	7000,1	1753	28	1	RUS	P	A1A		„P” beacon, hrd on 20,
MRASZ	7000,3	1802	29	1	ITA		A1A		„V V IK1HGI/B IK1HGI/B K”; + on 31
MRASZ	7014,0	0949	01	1			F1B		
MRASZ	7015,0	1724	23	1			LSB		ui.
MRASZ	7018,0	ady	dly	1	RUS	REA4	F1B	1000	Russian Navy
MRASZ	7020,0	1848	28	1			A3E		ui
MRASZ	7023,0	1738	27	1			A1A		dotter
MRASZ	7038,7	vt	dly	1	UKR	D	A1A		"D" beacon hrd more days
MRASZ	7038,8	vt	dly	1	RUS	P	A1A		„P” beacon
MRASZ	7038,9	1715	03	1	RUS	S	A1A		"S" beacon, hrd on 7,11,24,26,28,31
MRASZ	7039,0	1925	17	1	RUS	C	A1A		"C" beacon, hrd on 29
MRASZ	7045,0	1846	10	1			A1A		„RJL99 de RCV K”.MMMMM. 5 letters
MRASZ	7077,4	1756	06	1	UKR	D	A1A		"D" beacon hrd on 27,
MRASZ	7080,0	1753	27	1			F1B	500	
MRASZ	7098,0	0855	01	1			F1B	250	
MRASZ	7102,0	1410	01	1			FSK8		ALE
MRASZ	7120,0	vt	dly	1	SOM		A3E		"Radio Hargaysa
MRASZ	7166,1	1752	29	1			A1A		„YTFVH SYFFQ UEOWT” 5 letters
MRASZ	7171,7	0856	01	1			F1B	350	
MRASZ	7190,0	2218	18	1			LSB		splatter fm 7200 kHz
MRASZ	7195,0	2050	28	1			A3E		very weak mod.
MRASZ	7197,0	1253	01	1			BPSK		AT3004D
MRASZ	10150,0	1727	27	1			OTHR		

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	DETAILS
MRASZ	14265,0	0937	12	1			OTHR		
MRASZ	14280,0	1010	01	1			USB		figs. russian language
MRASZ	21220,0	1332	12	1			OTHR		
MRASZ	28065,0	1204	12	1			OTHR		wide
MRASZ	28065,0	0845	26	1			F3E		russian taxi disp.
MRASZ	28100,0	0924	26	1			OTHR		
MRASZ	28155,0	1019	12	1			F3E		russian taxi disp.
MRASZ	28165,0	1052	12	1			F3E		russian taxi disp.
MRASZ	28245,0	1140	16	1			OTHR		
MRASZ	28300,0	1208	12	1			OTHR		wide
MRASZ	28300,0	1141	16	1			OTHR		
MRASZ	28315,0	0852	26	1			F3E		russian taxi disp.
MRASZ	28470,0	0853	26	1			OTHR		

OEVSV – Austria – OE3GSA (Gerd)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
oevsv	3512.9	0530	16	01	RUS	unid	J3Eu			female reading figures
oevsv	7166.0	1923	15	01	unid	unid	A1A			groups of 5
oevsv	10102.3	0615	14	01	unid	unid	N0N			
oevsv	10120.0	1935	18	01	unid	unid	J3Eu			males - sort of arabic
oevsv	10123.3	2229	21	01	unid	unid	J3Eu			males - in spanish
oevsv	14020.0	0735	08	01	unid	unid	J3Eu			males chatting
oevsv	14299.0	1555	06	01	unid	4XZ	A1A			"V" occasionally
oevsv	18090.0	0630	13	01	unid	unid	FMcw			CW band unusable
oevsv	29062.0	02	01	01	RUS	unid	A3E			female ops

PZK – Poland – SP3UZ (Wladyslaw)

REP – Portugal – CT4AN (Jose Francisco)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REP	3500,0	19.58	06	01			J3E-U			Unid talks (arab)
REP	3517,4	19.08	22	01	E		J3E-U			Spanish fishery
REP	3533,0	19.08	13	01			FSK8			ALE
REP	3535,0	16.00	10	01			J3E-U			Unid language fishery
REP	3535,0	20.12	04	01			J3E-L			Unid language intruders
REP	3545,0	18.44	04	01			J3E-U			Unid ops
REP	3545,0	19.00	19	01			J3E-U			Unid male talks
REP	3625,0	23.28	25	01	MRC		J3E-U			Fishermen
REP	3635,0	08.34	12	01			J3E-U			French fishermen, not ham stations
REP	3700,0	07.34	10	01	RUS		J3E-U			Navy
REP	3710,0	18.40	04	01			J3E-U			Legal nautical operations on band
REP	3736,0	11.10	01	01	E		J3E-U			Spanish fishery
REP	3750,0	12.00	01	01	E		J3E-U			Spanish fishery
REP	7000,0	15.56	19	01	I & E		J3E-L			Italian and spanish pirates
REP	7000,0	16.05	10	01	E		J3E-U			Spanish outbanders
REP	7001,0	10.33	23	01	F	FAV22	A1A			French code pratice station id FAV22
REP	7003,0	11.06	27	01			FMCW			OTH radar
REP	7005,0	07.09	22	01			J3E-U			Tests, no calls
REP	7005,0	15.43	24	01	I		J3E-L			Italian male ops
REP	7001,5	22.08	18	01	B		F1B	75	240	Unid encrypted FSK
REP	7015,0	08.07	22	01	E		J3E-U			Fishermen on harbour
REP	7015,0	08.32	22	01	E		J3E-U			Fishermen talking about laws
REP	7015,0	06.09	20	01			J3E-L			Unid language male
REP	7020,0	21.14	13	01			FMCW			OTH radar
REP	7020,0	09.14	08	01	E		J3E-U			Spanish truckers
REP	7025,0	19.30	28	01	E		J3E-U			Female voices
REP	7030,0	23.03	13	01	E		J3E-U			Fishermen
REP	7035,0	07.02	27	01	MRC		J3E-U			Fishermen
REP	7039,0	23.01	04	01	RUS	C	A1A			MOSCOW, ADY, DLY

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REP	7039,2	23.45	04	01	RUS	F	A1A			VLADIVOSTOK, ADY, DLY
REP	7039,3	21.00	20	01	RUS	K	A1A			VOLGOGRAD, ADY, DLY
REP	7038,6	21.00	20	01	RUS	S	A1A			KALININGRAD, ADY, DLY
REP	7039,5	23.07	04	01	RUS	M	A1A			MAGADAN, ADY, DLY
REP	7038,7	21.05	20	01	UKR	D	A1A			SEVASTOPOL, ADY, DLY
REP	7038,8	21.19	20	01	RUS	P	A1A			MURMANSK, ADY, DLY
REP	7050,0	21.48	18	01			F1B	50	200	Unid FSK tx
REP	7054,1	23.08	16	01	RUS		F1B	50	200	Encrypted FSK system
REP	7070,0	14.15	25	01			J3E-L			Jamming + White Noise + retransmissions
REP	7070,0	15.00	03	01	I		J3E-L			Music, jamming and jokes
REP	7070,0	16.05	29	01			J3E-L			Music & QSO's jamming
REP	7120,0	16.44	25	01	SOM		8k00 A3EGN			Broadcasting
REP	7120,0	16.41	14	01	SOM		8k00 A3EGN			BC station (Radio Hargeysa)
REP	10123	10.54	21	01			J3E-U			Unid language male ops, data bursts
REP	10130	18.50	22	01			FMCW			OTH radar
REP	10132	18.01	22	01			FMCW			OTH radar
REP	10135	10.48	22	01	E		J3E-U			Spanish fishery, Galicia
REP	10140	20.21	29	01			FMCW			OTH radar
REP	10145	21.41	30	01			FMCW			OTH radar
REP	10148	16.59	31	01	MRC		J3E-U			Arabic intruders
REP	10150	21.48	30	01			FMCW			OTH radar WB 20kHz
REP	14000	10.00	27	01			J3E-U			Unid (Jap ??) language intruders
REP	14000	15.47	24	01	USA		J3E-U			US maritime weather forecasts (solved)
REP	14000	17.18	24	01			A1			Random carrier
REP	14005	09.39	12	01			F1B	300	425	RY RY RY
REP	14010	07.50	27	01			F1B			Not on standard speed
REP	14017	10.50	22	01			J3E-U			Unid language male ops
REP	14140	10.57	22	01	R		FMCW			OTH radar 10kHz 10cps, Russia
REP	14140	11.08	23	01	R		FMCW			Russian OTH radar 10kHz, 10cps
REP	14140	17.14	24	01	R		FMCW			Russian OTH radar 10kHz, 10cps
REP	21000	14.33	24	01			FMCW			OTH radar on 20990kHz, 20khz wide
REP	21120	16.19	06	01			J3E-U			Fishermen intruders
REP	28015	12.39	22	01			J3E-U			South American ops, also Iran radar bursts
REP	28200	12.19	30	01			FMCW			OTH radar
REP	28230	13.05	25	01			FMCW			OTH radar
REP	28240	11.38	22	01	IRN		FMCW			OTH radar, Iran
REP	28275	11.33	12	01			F3E			YL dispatcher
REP	28285	14.50	31	01	RUS		F3E			Taxi dispatcher
REP	28340	18.09	25	01	I		A3E			Talks, females
REP	28375	17.06	12	01	RUS		F3E			Russian talks
REP	28385	11.46	12	01	RUS		F3E			YL taxi dispatcher
REP	28800	12.11	12	01			A1			Strong Carrier (a possible interference)
REP	29035	13.20	28	01	RUS		F3E			Russian taxi
REP	29125	15.09	28	01	RUS		F3E			Russian taxi
REP	28xxx				B		A3E			Brazilian ops, mostly afternoons, everyday
REP	28xxx				RUS		F3E			Russian taxi dispatcher, mornings, everyday

RSGB - Great Britain – G4BOH (Chris)

SRAL – Finland – OH2BLU (Pekka)

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
SRAL	6999,0	0640-1540	6.	1		UiMUX	PSK2	120	2600	Subcarrier on 7000,3 kHz
SRAL	7008,0	0630-1315	3. 9. 14.	1		UiPTR	F1B		200	
SRAL	7012,0	1045	15.	1		UiPTR	F1B		250	
SRAL	7012,0	1200	31.	1		UiPTR	F1B		250	
SRAL	7012,0	0700-	17.	1		UiMUX	PSK2	120	2600	

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
		0800								
SRAL	7014,0	0855	21.	1		UiMUX	PSK2	120	2600	
SRAL	7014,0	1210-1530/	30.	1		UiMUX	PSK2	120	2600	
SRAL	7016,0	0630-1100	2. 4. 15.	1		UiMUX	PSK2	120	2600	
SRAL	7018,0	1000-1800	*	1	RUS	REA4	F1B		1000	Days: 1. – 14. & 23. – 31.
SRAL	7018,0	0530-0815	15.-22.	1	RUS	REA4	F1B		800	
SRAL	7021,0	0750-1210	*	1		UiMUX	PSK2	120	2600	Days: 15. 21. 24
SRAL	7022,0	1200-1325/	24. 31.	1	RUS	UiMUX	PSK2	120	2600	
SRAL	7030,0	0640-1430	*	1	RUS	UiPTR	F1B		250	Days: 3. 8. 18. 23. 26. 31.
SRAL	7038,7	h24	dly	1	UKR	D	A1A			Sevastopol, spur. +/- 38,7 kHz
SRAL	7038,8	0400-2030	dly	1	RUS	P	A1A			Kaliningrad, spur. +/- 38,8 kHz
SRAL	7038,9	0330-2030	dly	1	RUS	S	A1A			Severomorsk
SRAL	7039,0	0600-1600	dly	1	RUS	C	A1A			Moscow
SRAL	7046,0	1510	30.	1		UiMUX	PSK2	120	2600	
SRAL	7072,0	0910-1110	13.	1		UiMUX	PSK2	120	2600	
SRAL	7088,0	0700-1000	7.	1	RUS	UiMUX	PSK2	120	2600	
SRAL	7089,0	0515-1300	22.	1		UiMUX	PSK2	120	2600	
SRAL	7098,0	1010-1235/	23. 28.	1		UiPTR	F1B/ NON		250	
SRAL	7103,5	0710	27.	1		UiMUX	PSK2	120	2600	
SRAL	7111,0	0615-1100	13. 29.	1		UiPTR	F1B/ NON		250	
SRAL	7120,0	0330-0530	dly	1	SOM	R. Hargeisa	A3E			
SRAL	7120,0	1500-1900	dly	1	SOM	R. Hargeisa	A3E			
SRAL	7127,0	0750	27.	1		UiPTR	F1B			
SRAL	7129,0	0710	7.	1		UiMUX	PSK2	120	2600	
SRAL	7142,0	0700-0806/	7.	1		UiPTR	F1B		250	
SRAL	7142,0	1230-1330/	28.	1		UiPTR	F1B		250	
SRAL	7158,0	0945	14.	1		UiPTR	F1B			
SRAL	7160,0	0745-0800	21.	1		UiCW	A1A			MR 5BL
SRAL	7160,0	0645-0920	22.	1		UiCW	A1A			MR 5BL
SRAL	7164,0	1240-1420	15. 22.	1		UiMUX	PSK2	120	2600	
SRAL	7166,0	1545-1920	15.	1	F	UiCW	A1A			MR 5L
SRAL	7166,0	0610-0810	16.	1	F	UiCW	A1A			MR 5L
SRAL	7166,0	1010	23.	1		UiMUX	PSK2	120	2600	
SRAL	7169,0	1350	23.	1		UiPTR	F1B		200	
SRAL	7171,0	0720	24.	1		UiMUX	PSK2	120	2600	
SRAL	7180,0	0550	8.	1		UiMUX	PSK2	120	2600	
SRAL	7184,0	0630-0645	21.	1		UiMUX	PSK2	120	2600	
SRAL	7186,0	0645-1025/	1.	1		UiMUX	PSK2	120	2600	
SRAL	7193,0	0700-1400	*	1	RUS	UiPTR	F1B/ NON		200	Days: 3. 4. 7.-11. 14. 15. 17. 20. 21. 25. 27.-30.
SRAL	7195,0	0700-	2.	1		UiMUX	PSK2	120	2600	

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
		1600								
SRAL	7198,0	0730-1200	25.29.	1		UiMUX	PSK2	120	2600	
SRAL	13999,0	0705-1015/	13.	1		UiMUX	PSK2	120	2600	Subcarrier 14000,3 kHz
SRAL	14036,0	1000-1215	*	1		REA4	F1B		2000	2f, days 2.-9. 13.
SRAL	14036,0	1000-1215	*	1		REA4	F1B		1600	2f, days 15.-17.
SRAL	14141,0	0805-0849/	11.	1		UiPTR	F1B		500	
SRAL	14141,0	0915-1100/	14.	1	RUS	UiPTR	F1B		200	
SRAL	14192,0	0825-1455	*	1	RUS	UiPTR	F1B		400	Days: 7. 8. 14. 15. 16.
SRAL	14222,0	0650	5.	1		UiMUX	PSK2	120	2600	
SRAL	14295,2	0400-1500	dly	1	TJK	R Tojikiston	A3E			3f 4765,07 kHz, Yangiyul TX
SRAL	14299,0	1510-1745	6.	1	ISR	4XZ	A1A			5L
SRAL	14308,0	0645	25.	1		UiPTR	F1B		500	
SRAL	14346,0	0640-0808/	20.	1		UiPTR	F1B		250	
SRAL	14 MHz	0645-1500	*	1	RUS	29B6	FMCW			50Hz & 10 Hz/ 10 kHz, days: 1.-5. 12. 14.-17. 22. 23. 26. 29. 30.
SRAL	18 MHz	0650-1445	*	1	CYP / TUR	UiOTHR	FMCW			50Hz / 20 kHz, days: 4. 7. 13. 14. 22. 30.
SRAL	21 MHz	06445-1310	*	1	CYP / TUR	UiOTHR	FMCW			50Hz / 20 kHz, 6. 14. 25. 27. 30.
SRAL	21438,0	0700-1400	dly	1	RUS / UKR	RCV	A1A			
SRAL	24 MHz	0800-1100	*	1	CYP / TUR	UiOTHR	FMCW			25 & 50Hz / 20 kHz, days. 9. 23. 27.
SRAL	28 MHz	0700-1300	*	1	IRN	UiOTHR	FMCW			307 & 870 Hz / 60 kHz, days: 3. 4. 7.-17. 23. 30.
SRAL	28 MHz	0645-1300	*	1	CYP / TUR	UiOTHR	FMCW			25 & 50Hz / 20 kHz, days: 3. 4. 8. 10. 11. 13. 26. 29. 30.
SRAL	28 MHz	0810-1230	*	1	RUS	Taxi disp.	F3E			Days: 4. 7.-9. 11.-17. 22.-24. 26. 30. 57 reports

USKA – Switzerland – HB9CET (Peter)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	7000.0	1632	01	01		D	A1A			Beacon D spurious of 7038.7 daily
USKA	7000.0	2009	31	01		E	USB			Voice scrambler CRY2001 (fishery) F1B intro bursts 100Bd (shift 170Hz)
USKA	7000.0	0038	31	01		102	MFSK8	125	1750	MIL 188-141A
USKA	7000.0	0838	31	01		2035	MFSK8	125	1750	MIL 188-141A
USKA	7000.0	0041	31	01		205	MFSK8	125	1750	MIL 188-141A
USKA	7000.0	0037	31	01		20983	MFSK8	125	1750	MIL 188-141A
USKA	7000.0	0028	31	01		21060	MFSK8	125	1750	MIL 188-141A
USKA	7000.0	0049	31	01		406	MFSK8	125	1750	MIL 188-141A
USKA	7000.0	0017	31	01		510	MFSK8	125	1750	MIL 188-141A
USKA	7000.0	0009	31	01		XH	MFSK8	125	1750	MIL 188-141A
USKA	7000.97	0907	01	23		FAV22	A1A			letters and figures, no ham
USKA	7007.875	0857	03	01			A1A			Jammer (dots and carrier), heavy interfering ham band !
USKA	7008.0	0855	03	01			F1A		250	
USKA	7008.0	0857	03	01			F1B	75	250	jammed
USKA	7014.0	1526	30	01			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D
USKA	7016.0	0957	04	01			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	7018.0	1546	01	01	RUS	REA4	F1B	100	1k	ID in F1A
USKA	7020.0	2210	28	01		810603	MFSK8	125	1750	MIL 188-141A
USKA	7020.0	2157	28	01		810613	MFSK8	125	1750	MIL 188-141A
USKA	7020.0	0222	29	01		810615	MFSK8	125	1750	MIL 188-141A
USKA	7020.0	0250	29	01		810616	MFSK8	125	1750	MIL 188-141A
USKA	7020.0	1800	29	01		813199	MFSK8	125	1750	MIL 188-141A
USKA	7020.0	2205	28	01		820601	MFSK8	125	1750	MIL 188-141A
USKA	7020.0	2150	28	01		820616	MFSK8	125	1750	MIL 188-141A
USKA	7022.0	1001	24	01			J7D		2k7	CIS12 idling, often
USKA	7027.0	0943	24	01			J7D		2k7	PSK-2: CIS12 = AT3004D
USKA	7030.0	1306	23	01			F1B	75	250	
USKA	7038.7	1629	01	01	UKR	D	A1A			Beacon D Sevastopol daily
USKA	7038.8	0704	01	01	RUS	P	A1A			Beacon P Kaliningrad daily
USKA	7038.9	1633	01	01	RUS	S	A1A			Beacon S Murmansk daily
USKA	7039.4	2311	01	01	RUS	M	A1A			Beacon M Magadan daily
USKA	7062.9	1652	12	01			F1B	75	250	
USKA	7065.0	2033	09	01			FMCW	66.66	10k	OTHR BD 4s BRI 34s
USKA	7069.0	1644	12	01			F1B	75	250	
USKA	7070.0	2011	02	01		244	MFSK8	125	1750	MIL 188-141A
USKA	7070.0	1938	02	01		334	MFSK8	125	1750	MIL 188-141A
USKA	7070.0	2113	27	01		821199	MFSK8	125	1750	MIL 188-141A
USKA	7089.0	2152	30	01			FMCW	48	10k	OTHR Burst system BD approx 10s, BRI approx 35s
USKA	7089.8	2127	20	01			G1D	2400	2k6	PSK-8: Link 11- SLEW often
USKA	7096.0	2158	30	01			FMCW	48	10k	same as 7089 kHz
USKA	7096.0	2135	20	01			B7D	75	6k	LINK 11 CLEW 75Bd DNCS IM
USKA	7098.0	0923	23	01			F1B	75	250	
USKA	7098.125	0923	23	01			A1A			bad Jammer, dots only
USKA	7113.0	2206	30	01			FMCW	48	10k	OTHR Burst system
USKA	7117.4	2257	29	01			F1A	50	400	maybe harmonic?
USKA	7118.0	2206	30	01			FMCW	48	10k	same as 7113 kHz
USKA	7120.0	1549	01	01	SOM		A3E			Radio Hargaysa daily
USKA	7144.0	1749	26	01			F1B	75	250	
USKA	7145.0	2223	30	01			FMCW	48	10k	OTHR Burst system
USKA	7148.0	1545	22	01			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D
USKA	7186.0	0708	01	01			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D often
USKA	7195.0	0709	02	01			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D
USKA	7197.0	2001	26	01		3051	MFSK8	125	1750	MIL 188-141A 4 letter IDs daily
USKA	7197.0	1953	26	01		3062	MFSK8	125	1750	MIL 188-141A 4 letter IDs daily
USKA	7197.0	1958	26	01		3191	MFSK8	125	1750	MIL 188-141A 4 letter IDs daily
USKA	7197.0	2018	26	01		3241	MFSK8	125	1750	MIL 188-141A 4 letter IDs daily
USKA	7197.0	2021	26	01		3331	MFSK8	125	1750	MIL 188-141A 4 letter IDs daily
USKA	7197.0	1959	26	01		3401	MFSK8	125	1750	MIL 188-141A 4 letter IDs daily
USKA	7197.0	2005	26	01		3461	MFSK8	125	1750	MIL 188-141A 4 letter IDs daily
USKA	7197.0	2009	26	01		3511	MFSK8	125	1750	MIL 188-141A 4 letter IDs daily
USKA	7197.0	2021	26	01		3731	MFSK8	125	1750	MIL 188-141A 4 letter IDs daily
USKA	7197.0	2014	26	01		8021	MFSK8	125	1750	MIL 188-141A 4 letter IDs daily
USKA	7197.0	2015	26	01		8131	MFSK8	125	1750	MIL 188-141A 4 letter IDs daily
USKA	7197.0	2010	26	01		8141	MFSK8	125	1750	MIL 188-141A 4 letter IDs daily
USKA	7197.0	2019	26	01		8181	MFSK8	125	1750	MIL 188-141A 4 letter IDs daily
USKA	7197.0	2000	26	01		8231	MFSK8	125	1750	MIL 188-141A 4 letter IDs daily
USKA	7197.0	2009	26	01		8361	MFSK8	125	1750	MIL 188-141A 4 letter IDs daily
USKA	7197.0	1949	26	01		8411	MFSK8	125	1750	MIL 188-141A 4 letter IDs daily
USKA	7197.0	2011	26	01		8601	MFSK8	125	1750	MIL 188-141A 4 letter IDs daily
USKA	7197.0	1955	26	01		8611	MFSK8	125	1750	MIL 188-141A 4 letter IDs daily
USKA	7197.0	1953	26	01		8721	MFSK8	125	1750	MIL 188-141A 4 letter IDs daily
USKA	7197.0	2016	26	01		8751	MFSK8	125	1750	MIL 188-141A 4 letter IDs daily
USKA	7197.0	2028	26	01		8761	MFSK8	125	1750	MIL 188-141A 4 letter IDs daily
USKA	14086.0	1001	23	01			J7D		2k7	CIS12 system idling
USKA	14140.0	0701	01	01			FMCW	50	10k	OTHR often
USKA	14316.0	1004	23	01			FMCW	50	10k	OTHR BD ~3.5 s, BRI ~34s
USKA	14344.65	2043	28	01			PSK-8	2400	2k4	similar MIL 188-110, modified burst system daily
USKA	21000.0	1721	21	01			J3E-U			unid language
USKA	21145.0	1137	30	01		C3	MFSK8	125	1750	MIL 188-141A almost daily
USKA	21145.0	1427	31	01		C4	MFSK8	125	1750	MIL 188-141A almost

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
										daily
USKA	21145.0	1248	30	01		G2	MFSK8	125	1750	MIL 188-141A
USKA	21145.0	1241	30	01		GS4	MFSK8	125	1750	MIL 188-141A
USKA	21145.0	1343	31	01		K3	MFSK8	125	1750	MIL 188-141A
USKA	21145.0	1039	30	01		Q2	MFSK8	125	1750	MIL 188-141A
USKA	21145.0	1021	30	01		X201	MFSK8	125	1750	MIL 188-141A
USKA	21318.5	0917	23	01			F1B	600	600	ARQ system often
USKA	21380.0	1058	01	01			FMCW	50 sps	20k	OTHR
USKA	21438.0	0911	23	01		RCV	A1A			letters and figures almost daily
USKA	28025.0	1038	23	01			F1B	51	300	GPS fishery buoy almost daily
USKA	28064.7	1141	23	01		FG	A1A			fishery buoy
USKA	28100.0	1057	23	01			F1B	51	300	GPS fishery buoy almost daily
USKA	28275.0	1123	23	01			F1B	51	300	GPS fishery buoy almost daily
USKA	28555.0	1007	02	01			FMCW	50 sps	20k	OTHR
USKA	28600.0	0841	02	01			FMCW	50 sps	20k	OTHR
USKA	28675.0	1029	31	01			FMCW	307 870	~50k	OTHR Burst system often BD approx 3s or also 6s
USKA	28700.0	0719	02	01			FMCW	50 sps	20k	OTHR
USKA	28890.0	0904	05	01			FMCW	50 sps	20k	OTHR
USKA	29100.0	0902	29	01			FMCW	50 sps	20k	OTHR
USKA	29450.0	1101	01	01			F1B	81.9	140	Datawell buoy almost daily

Veron 1 – Netherlands – PA2GRU (Dick)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SHIFT	DETAILS
VERON	3748,5	17.11	21	1		UiCW	A1A		Nr 30 J 21 17:10:50 1986 bt 5L
VERON	3748,5	17:17	21	1		UiCW	A1A		Nr 31 J 21 17:17:00 1986 bt 5L
VERON	7000,0	20.25	22	1		UICAR	NON		carrier, S9
VERON	7018,0	14.41	9	1	RUS	REA4	F1A		REA4 bt 09140 99900 5F
VERON	7018,0	15.38	17	1		UiVFT	F1B		Fast Revs/Dotter (followed by F1A 5F)
VERON	7018,0	15.41	17	1	RUS	REA4	F1A		REA4 bt 17150 99900 5F
VERON	7018,0	14.41	23	1	RUS	REA4	F1A		REA4 bt 23140 99900 5F
VERON	7018,0	15.41	25	1	RUS	REA4	F1A		REA4 bt 25150 99900 5F
VERON	7028,7	17.37	20	1	UKR	D	A1A		D-beacon
VERON	7029,0	17.36	20	1	RUS	C	A1A		C-beacon
VERON	7038,7	20.19	7	1	UKR	D	A1A		beacon D, Russian Navy
VERON	7038,7	15.26	17	1	UKR	D	A1A		D-beacon (also at 23/1)
VERON	7038,7	vt	vd	1	UKR	D	A1A		Beacon Sevastopol; hrd 4 days
VERON	7038,8	16.49	13	1	RUS	P	A1A		beacon P,
VERON	7038,8	13.17	4	1	RUS	P	A1A		P-beacon (also at 7/1 17/1 23/1)
VERON	7038,8	17.36	20	1	RUS	P	A1A		P-beacon
VERON	7038,8	vt	vd	1	RUS	P	A1A		Beacon Kaliningrad; hrd 6 days
VERON	7038,8	vt	vd	1	RUS	P	A1A	0	beacon, 1/1, 13/1, 15/1,16/1
VERON	7038,9	13.17	4	1	RUS	S	A1A		S-beacon (also at 17/1 23/1)
VERON	7038,9	17.36	20	1	RUS	S	A1A		S-beacon
VERON	7038,9	vt	vd	1	RUS	S	A1A		Beacon Severomorsk; hrd 3 days
VERON	7055,5	15.00	4	1	GEO	UiMux	FSK8	1k8	
VERON	7056,5	15.25	18	1		UiMux	PSK8	2k4	
VERON	7069,1	19.41	4	1		V	A1A		Rapid "v's"; unknown purpose; bad modulation
VERON	7077,0	16.40	13	1	RUS	UIMUX	PSK2		12 MPSK AT3004D
VERON	7120,0	17.01	20	1	SOM	R.Har	A3E		speech
VERON	7170,0	15.14	18	1					Frequency hopper
VERON	7193,0	09.32	7	1		UiPTR	F1B		Revs/Ptr
VERON	7196,0	17.01	2	1	RUS	UIMUX	PSK2		12 MPSK AT3004D

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SHIFT	DETAILS
VERON	7200,0	22.32	18	1	CHN		A3E		Male & female px; s9
VERON	14140,0	11.56	2	1		OTHR	FMCW		radar, 50 sps
VERON	14140,0	11.39	22	1	RUS	OTHR	FMCW		radar
VERON	14180,0	13.22	25	1					Frequency hopper
VERON	14211,0	09.16	21	1	?	?	F1B	250	ptr, revs
VERON	14233,0	10.18	16	1	RUS	UIMUX	PSK2		12 MPSK AT3004D, qrt 10.19
VERON	14330,0	10.12	5	1		UiMux	FSK8	1k8	
VERON	14345,0	09.38	20	1		UICAR	NON		carrier, S9
VERON	18090,0	10.45	15	1		OTHR	FMCW		radar 20 KHz wide
VERON	21438,0	14.48	9	1	RUS	RCV	A1A		RGX94 de RCV QTC 965 Nawip 036 72
VERON	21438,0	14.55	9	1	RUS	RCV	A1A		RKZ de RCV QTC 707 Prognoz Pogody
VERON	21438,0	13.20	13	1	RUS	RCV	A1A		RMGB de RCV QSA2 QRV k (wkd split)
VERON	21438,0	14.45	23	1	RUS	RCV	A1A		RIP90 de RCV QTC .97 Nawip 33 186
VERON	21438,0	10.57	22	1	RUS	RCV	A1A		RFH70 DE RCV QWH 13054/14600 K
VERON	21438,0	10.59	22	1	RUS	RCV	A1A		RIR96 DE RCV proc.
VERON	21438,0	10.49	25	1	RUS	RCV	A1A		RLD69 DE RCV QYT9 QWH 11143 K
VERON	28280,0	11.37	22	1		OTHR	FMCW		radar, 10 sps
VERON	28290,0	10.06	26	1		OTHR	FMCW		50sps

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

go2SIGNALS - PLATH AG – Bern - Switzerland

German PTT (BNetzA = Federal Network Agency)

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