



Monitoring System

DK2OM – Wolf Hadel
Co-ordinator of IARUMS Region 1
Editor of the Newsletter

HB9CET – Peter Jost
Vice Co-ordinator of IARUMS Region 1

The monthly newsletter for Region 1

April 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 RSGB: G4BOH - Chris ++ 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 (Switzerland), OFCOM (UK) ++ Dutch AT ++ SK6AW – DX-Cluster ++ YO9RIJ - Petrica

Part 1: News and Infos

1. 10123.0 USB – fishermen’s telephone

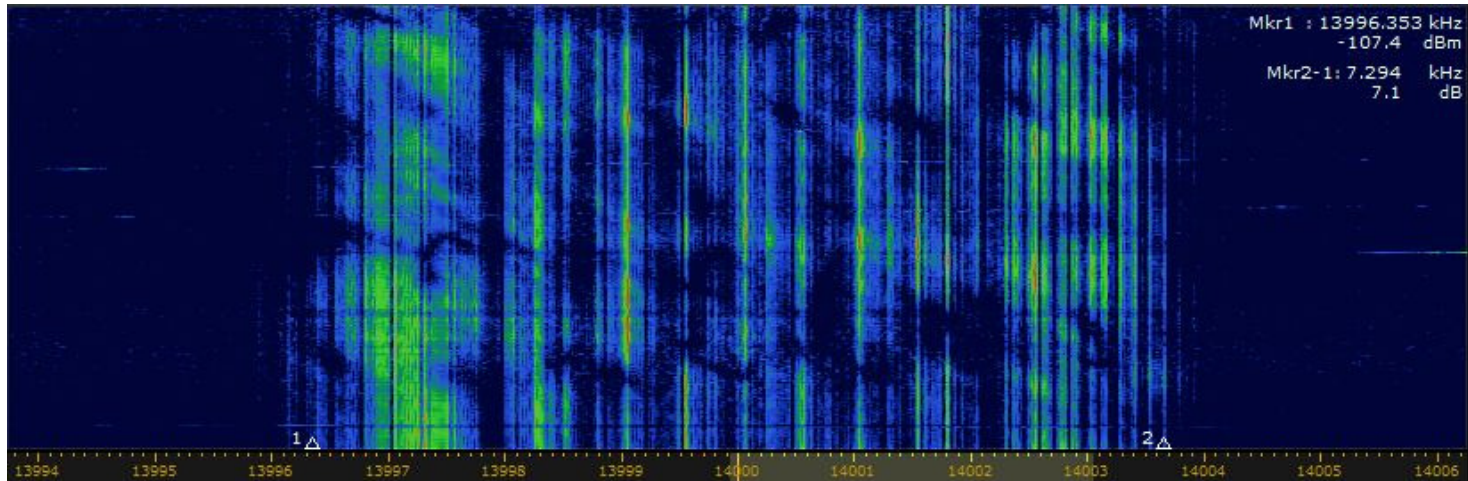
HB9CET found illegal fishery traffic on 10123 USB daily. Bearings by the German PTT showed the area east of Aberdeen, North Sea. I informed G4BOH, and Chris asked OFCOM Baldock (British PTT) for assistance. Result: The British Coast Guard decided to contact to these fellows and tell them, that their phone traffic is illegal! Few days later the the QRG was clean. Many thanks to all involved Hams and services.

2. Another illegal Datawell buoy on 10 m

After having got a tip from SWL Tim I checked 28435 kHz and found another Datawell bouy “Waverider”. (F1B 81.9 Bd – 140 Hz shift) – Location: Costa del Sol, Malaga. I informed the Dutch MS Coordinator and the Spanish MS. Datawell buoys are produced in the Netherlands.

3. 14000.0 – mysterious broadband emission

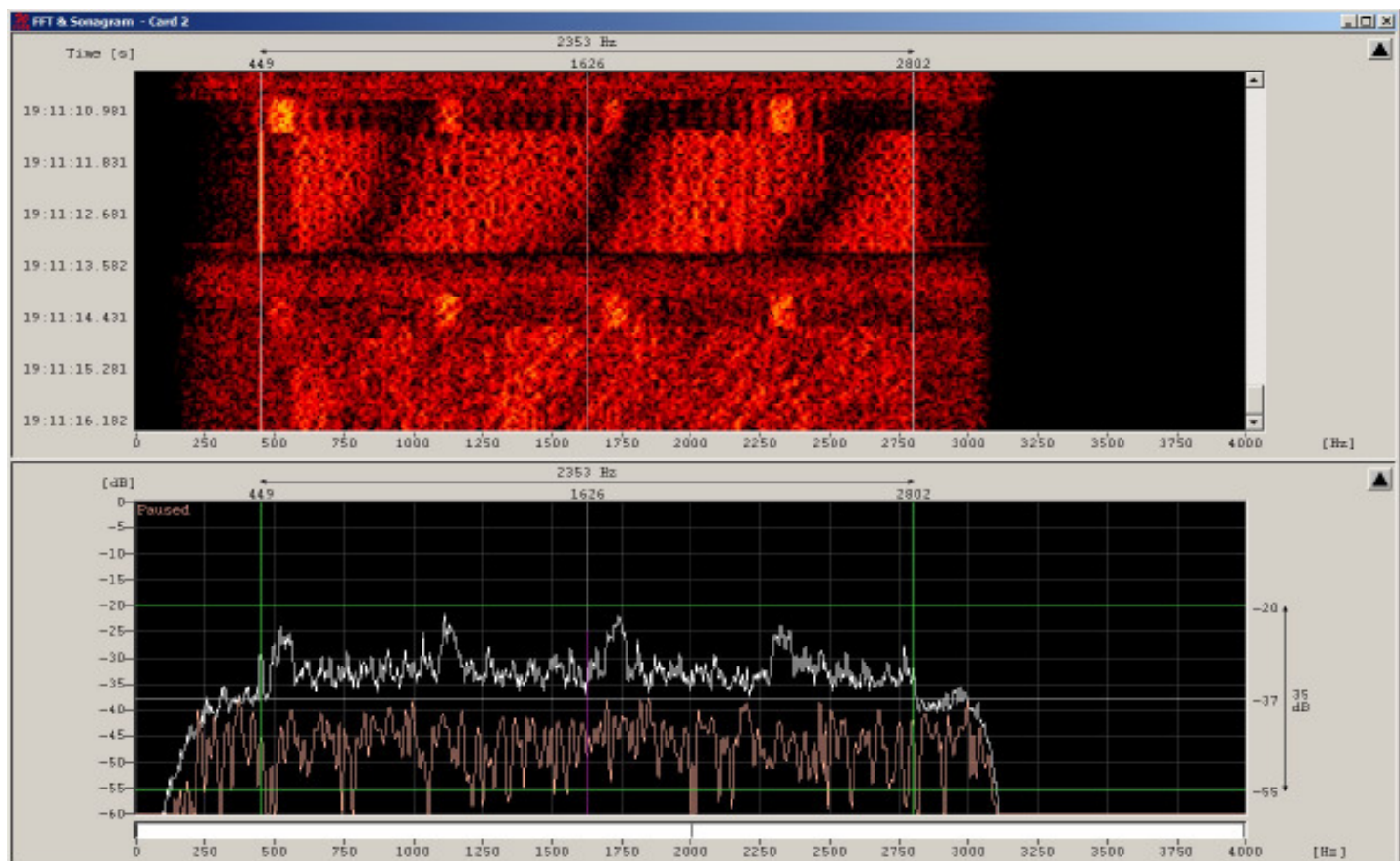
HB9CET found this emission on 7105 kHz daily at 2300 UTC in Winter 2013/14. I found the same emissions on 14000 and 16000 kHz on April 24th. The signals were about 7 kHz wide, purpose unknown. Location: West-China. Screenshot by DK2OM: 14000 kHz - unknown broadband signal from China



14000

4. OFDM30 from China on 40 m

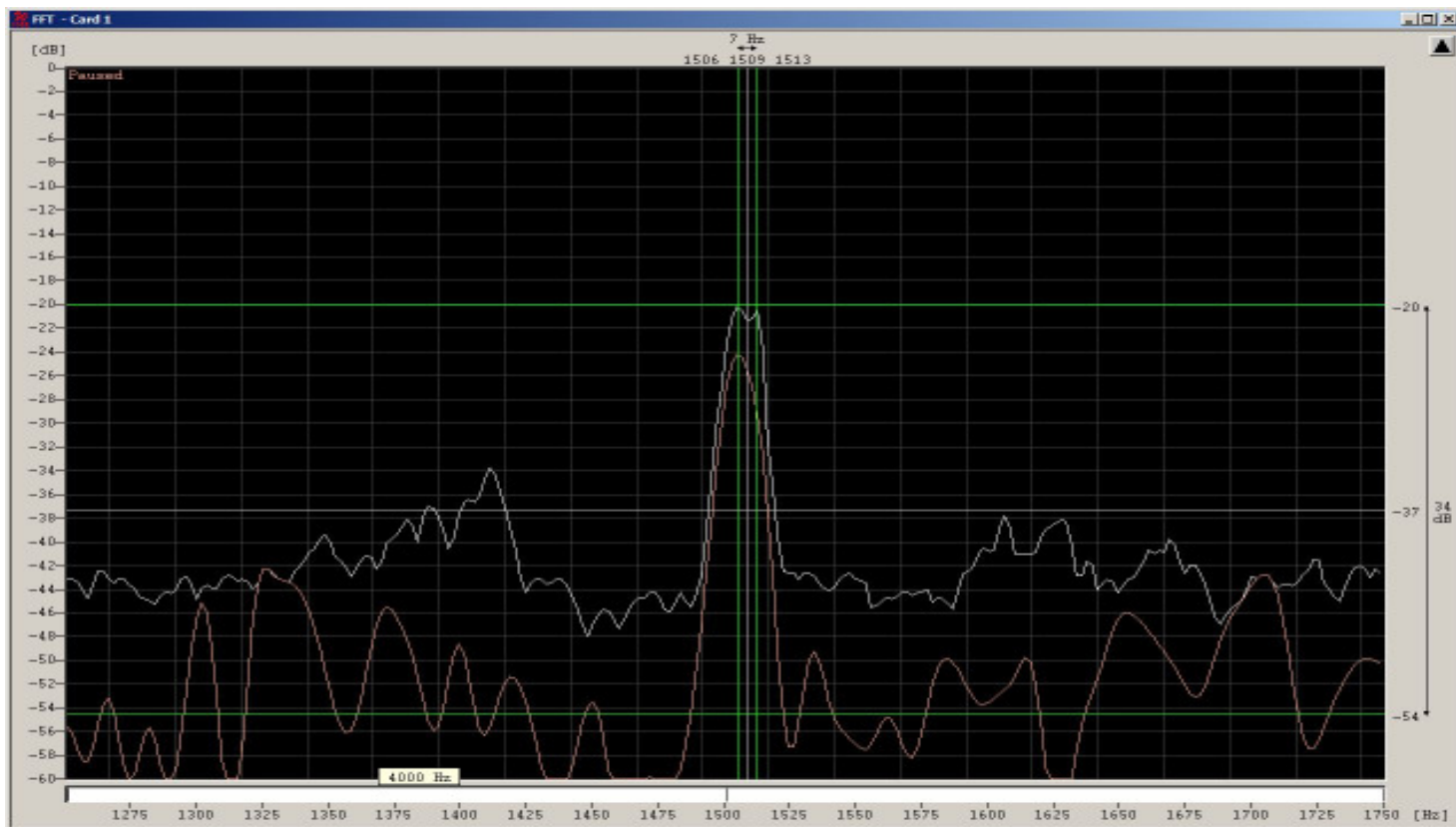
HB9CET and me observed an OFDM30 signal from China around 7152 kHz for several days. Parameters: Preamble of 4 PSK4-modulated signals followed by an OFDM30 signal. Such signals are often transmitted in LSB. The pilottone is located on 450 Hz AF. Purpose: Unknown. **Screenshot: DK2OM with W-Code (Wavecom)**



5. SOH Taiwan now on 18080 kHz in April 2014

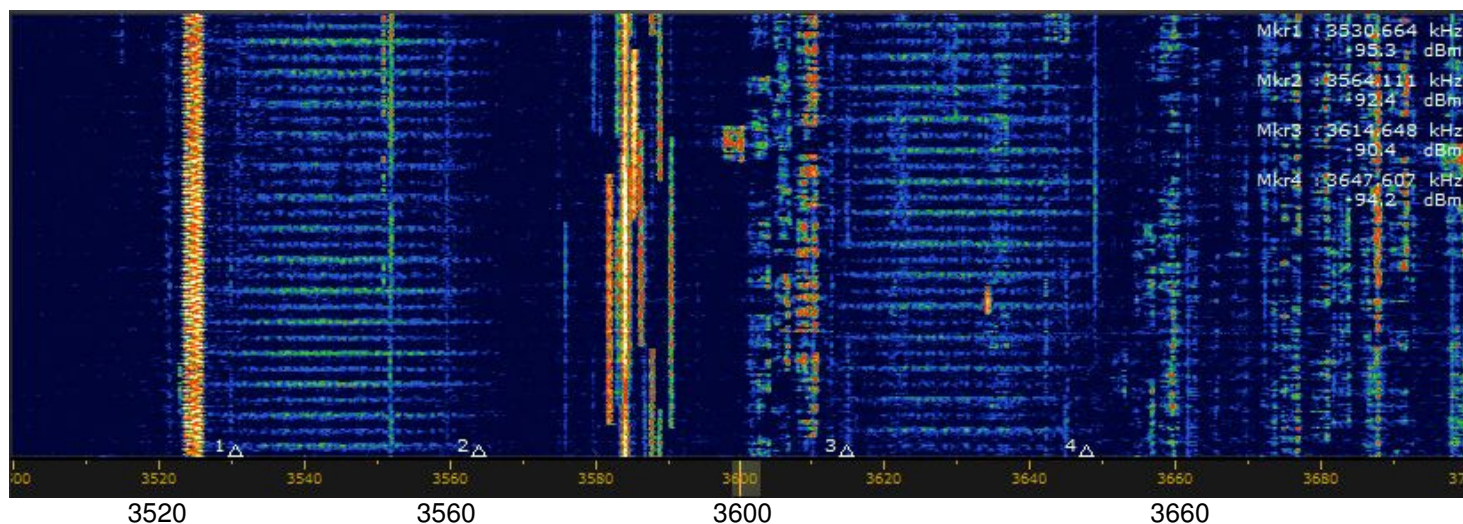
SOH (Sound of Hope - Taiwan) BC transmissions and the hostile Chinese jammer are now transmitting on 18080 kHz every morning at 0600 UTC. I informed the IARUMS Coordinator of Region 3 (VK3MV Peter) and the IARU. Perhaps the Australian PTT ACMA can help us by an official complaint.

Screenshot: DK2OM with W-Code (Version 8.5) showing the two carriers – difference 7 Hz



6. Russian OTH radar at Makhachkala – Dagestan – on 80 m-band on April 26th – Screenshot: DK2OM

43.5 sps and stretching over 60 kHz – observe the white triangle markers!



10. Don't forget: Hamradio 2014

June 28th – Meeting of the DARC Monitoring System at room "Swiss" – 10.00 – 11.30 local time

Lectures: DK2OM – "Monitoring work 2013/2014" and HB9ZEM – "Passive (bistatic) radars"

Inofficial IARUMS Region 1 Meeting at 11.30 local time – DARC HF-Stand

Info: <http://www.iarums-r1.org/bandwacht/bw-2014.pdf>

11: Updates: Image Gallery - History of IARUMS R1 - Contacts

12. 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 = orthogonal frequency division multiplex
ALE (MIL-188-141A) = automatic link establishment *** MUX = multiplex *** **Ui (unid)** = unidentified *** **Illicit** = illegal *
UiILL = unidentified illegal *** **BC** = broadcast *** **MIL** = military *** **PTR** = printer *** **NGO** = non governmental organization *** **ITU** = ITU country abbreviation *** **PRC** = People's Republic of China *** **PLA** = People's Liberation Army *** **MFA** = Ministry of Foreign Affairs *** **MOI** = Ministry of Interior *** **MOPO** = Ministry of Public Order *** **IARUMS** = IARU Monitoring System *** **UTC** = Universal Time Coordinated *** **pps** = pulses per second (earlier radar systems) *** **sps** = sweeps/sec (radar systems) *** **FMCW** = frequency modulated continuous wave (OTH and coastal Radars)
5BL = cyrillic 5 lettergroups

ARSK MONITORING OVERVIEW FOR APRIL 2014

No changes. There were the usual broadcasts from Radio Hargeisha on 7120 kHz, Khartoum on 7200 kHz, An unidentified net which seems to be somewhere in central Africa is frequently on 7075 kHz and what may be military on 7000 kHz.

E.H.M. Alleyne, 5Z4NU

ARSK – Kenya – 5Z4NU (Ted)

H'd by	kHz	UTC	DD	MM	ITU	Identity	MODE	Details
ARSK	7,000.00	vt	dly	4	E. Africa	NGO?	J3E	Vernacular, English. Messages in phonetics.
ARSK	7,075.00	vt	dly	4	E. Africa	?	J3E	Unknown African language
ARSK	7120.00	vt	dly		Rep.of Somaliland	Hargeisha	A3E	Daily broadcasts.
ARSK	7195.00	0650 to mid-afternoon	10 to 30	4	UGA	Uganda Radio	A3E	B'cast in KiSwahili, music, Luganda & English, to about 1200Z or later.

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

DG0JBJ (Mario) observed 68 OTH radars on 20 m, 68 OTH radars on 15 m and 109 OTH radars on 10 m in April 2014. Russian OTH radars were active again on 20 m with 10 and 50 sps – 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	1812,0	2010	08	04	RUS		USB LSB			14 tones – hyperbolic radio navigation system – BRAS-3/RS-10 – Kaliningrad – daily, all day
DK2OM	1880,0	ady	dly	04	BEL		PSK8	2400	2400	Stanag4285 – 600 bps long – area of Brugge – Belgium - daily
DK2OM	1881,4	ady	dly	04	F		QPSK	100	100	BC-PSK – radio navigation – Nantes – daily, all day
DK2OM	1896,5	ady	dly	04	D		PSK8	2400	2400	Stanag4285 – 600 bps long – German Navy – daily, all day
DK2OM	1925,0	vt	dly	04	I	IPL	USB			Livorno Radio, weather reports – daily, vt
DK2OM	3500,0	vt	vd	04	E		USB			Spanish fishery – every evening La Coruna and Bay of Biscay
DK2OM	3500,0	vt	dly	04	TUR		FSK8	120	1750	ALE, “201” - Turkish Red Crescent – legal!
DK2OM	3500,0	1939	17	04	?		FMCW		35k	OTH radar with 337 sps – 3480 – 3515 kHz
DK2OM	3500,0	1916	23	04	RUS		FMCW		40k	OTHR – 43.5 sps – 3500 – 3540

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
									35k	and 3610 - 3645 kHz – simultaneous - Makhachkala – Caspian Sea
DK2OM	3501,0	1831	04	04	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3503,5	vt	dly	04	G	no ITU	FSK8	125	1750	ALE – “XSS” “XPU” “XJR” – British MIL Tascomm – vt, daily - legal!
DK2OM	3507,5	1755	08	04	RUS		F1B	75	250	area of Krasnodar
DK2OM	3510,0	1630	25	04	RUS		FMCW		35k	OTHR – 43.5 sps – 3510 – 3545 and 3580 - 3615 kHz – simultaneous - Makhachkala – Caspian Sea
DK2OM	3520,0	1945	23	04	Scan		USB			Scandinavians
DK2OM	3520,0	2120	10	04	RUS		FMCW		50k	OTHR – 43.5 sps – 3520 – 3570 kHz – Makhachkala – Caspian Sea
DK2OM	3520,0	2013	11	04	RUS		USB			woman in Russian voice – Kaliningrad – several days
DK2OM	3522,0	1654	11	04	RUS		FMCW		30k	OTHR – 43.5 sps – 3522 – 3572 kHz – Makhachkala – Caspian Sea
DK2OM	3524,9	2000	26	04	RUS		unid		2000	wobbler ? – area of Moscow
DK2OM	3527,0	ady	dly	04	RUS		F1B	50	200	Severomorsk - daily
DK2OM	3530,0	vt	dly	04			FSK8	125	1750	ALE, “11141”
DK2OM	3530,0	2040	29	04	RUS		FMCW		30k	OTHR – 43.5 sps – 3530 – 3560 and 3615 - 3645 kHz – simultaneous - Makhachkala – Caspian Sea
DK2OM	3532,0	vt	vd	04	F		PSK4	75	2400	LINK11-CLEW on both sidebands (5800 Hz wide) – area of Brest – legal!
DK2OM	3532,0	1640	24	04	RUS		FMCW		30k 30k	OTHR – 43.5 sps – 3532 – 3562 and 3655 - 3685 kHz – simultaneous - Makhachkala – Caspian Sea
DK2OM	3535,0	2110	07	04	G		USB			UK fishery
DK2OM	3548,0	1834	15	04	RUS		F1B	50	200	Kaliningrad
DK2OM	3550,0	vt	vd	04	ALG		FSK8	125	1750	ALE, “IU50” “IU52” “FN50”
DK2OM	3550,0	vt	dly	04	F		A3E			French amateurs not respecting the bandplans (unstable carriers) – every morning
DK2OM	3550,0	1948	23	04	Scan		USB			Scandinavians
DK2OM	3550,5	1932	06	04	ISR		PSK4 PSK8	75 2400	2400 2400	hybrid modem – ISR Navy – PSK4 parallel and PSK8 serial – legal operation - daily
DK2OM	3552,3	1958	28	04	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3553,0	2015	24	04	F		A3E			French amateurs not respecting the bandplans (unstable carriers)
DK2OM	3553,8	ady	dly	04	TUR		PSK8	2400	2400	Stanag4285 – TUR MIL - Ankara – legal operation
DK2OM	3567,0	vt	dly	04	CHN ?		FSK8	125	1750	ALE, “103” “106”
DK2OM	3576,4	ady	dly	04	I	IZ3DVW	A1A			uncoordinated beacon
DK2OM	3580,0	1938	08	04	RUS		FMCW		55k	OTHR – 43.5 sps – 3580 – 3635 kHz – Makhachkala – Caspian Sea
DK2OM	3585,0	ady	dly	04	TWN	HLL	F1C			120 rpm, IOC 576, Wxfax - daily - legal!
DK2OM	3587,0	vt	vd	04	E	no ITU	FSK8	125	1750	ALE, “TVV” “TXX” - Spanish Guardia Civil
DK2OM	3590,0	vt	dly	04	PAK	no ITU	FSK8	125	1750	ALE, “KW” “KHAIBAR” – Pakistan navy
DK2OM	3590,0	2035	13	04	E		USB			Spanish fishery
DK2OM	3595,0	vt	dly	04	D		FSK8	125	1750	ALE – German customs
DK2OM	3596,0	vt	dly	04	D, S, HRV		FSK8	125	1750	ALE, “DK3CW” “SA6CBK” “9A0PZ” – just for info!
DK2OM	3596,0	1857	14	04	UKR		PSK2	120	2600	AT3004D – Lviv

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	3600,0	1418	14	04	RUS		PSK2A	120	2600	AT3004D – Far East Russia
DK2OM	3608,0	1915	27	04	RUS		F1B	50	200	Kaliningrad
DK2OM	3617,0	vt	dly	04	HRV	9A5EX	FSK8	125	1750	ALE, “9A5EX” – HAM-ALE - just for info
DK2OM	3622,5	ady	dly	04	J	JMH	F1C			Tokyo Meteo – 120 rpm – IOC576 – daily, legal!!!
DK2OM	3630,0	1637	24	04	CHN		FMCW		150k	Chinese OTH radar – 3630 – 3780 kHz - 43.5 sps
DK2OM	3642,0	2030	06	04	CHN		A1A			endless slip – DKG6 de 3A7D Chinese military – daily, all day
DK2OM	3655,0	1853	13	04	RUS		FMCW		105k	OTHR – 43.5 sps – 3655 – 3760 kHz – Makhachkala – Caspian Sea
DK2OM	3690,0	1853	09	04	CHN		FMCW		80k	Chinese OTH radar – 3690 – 3770 kHz – 43.5 sps
DK2OM	3751,5	vt	dly	04	POL	no ITU	FSK8	125	1750	ALE, “IZ3” “MI3”
DK2OM	3756,0	ady	dly	04	UKR		A3E			UKR – pip – 14 tones – hyperbolic navigation system – BRAS-2/RS-10
DK2OM	3761,5	vt	vd	04	POL		FSK8	125	1750	ALE, “NI9” “PL7” “AB2” – Polish MIL
DK2OM	3767,0	1748	03	04	RUS		PSK2A	120	2600	AT3004D - Kaliningrad
DK2OM	3771,0	1858	13	04	RUS		F1B	100	250	area of Moscow
DK2OM	3776,5	1900	14	04	UKR		OQPSK	1280	1280	Kyiv - Ukraine
DK2OM	3782,0	ady	dly	04	POR	CTP	F1B	75	850	POR Navy headquarter Lisbon – disturbed by Russian OTH radar on 18.08.2013 at 1945 utc
DK2OM	3790,0	1950	11	04	RUS		USB			woman in Russian voice – Kaukasian area
DK2OM	3791,0	vt	vd	04	D	DK0ESD	FSK8	125	1750	ALE, “DK0ESD” – just for info!
DK2OM	7000,0	1633	01	04	INS		LSB USB			Indonesian pirates singing, chatting and playing music – audible in Europe every afternoon and evening
DK2OM	7000,0	vt	vd	04	?		FSK8	125	1750	ALE, “210” “20989” “2205”
DK2OM	7000,3	1027	11	04			PSK4A	2400	2400	
DK2OM	7008,0	2000	28	04	RUS		F1B	75	200	Kaliningrad
DK2OM	7009,0	1346	10	04	RUS		PSK2A	120	2600	AT3004D – Far East Russia
DK2OM	7016,0	2013	28	04			F1B	75	250	
DK2OM	7020,0	vt	vd	04			FSK8	125	1750	ALE, “CS5004A” “RS0013D” – NC3A network? – area of Kosovo
DK2OM	7020,0	1319	29	04	RUS		F1B	75	250	west of Moscow
DK2OM	7023,0	1316	22	04	RUS		PSK2A	120	2600	AT3004D – Far East Russia
DK2OM	7028,0	2044	22	04	RUS		PSK2A	120	2600	AT3004D - Kaliningrad
DK2OM	7038,7	1845	08	04	RUS	D	A1A			Cluster beacon – Sevastopol RUS Navy – “RCV”
DK2OM	7038,8	1812	09	04	RUS	P	A1A			Cluster beacon – Kaliningrad RUS Navy – “RMP”
DK2OM	7038,9	1904	14	04	RUS	S	A1A			Cluster beacon – Severomorsk RUS Navy – „RIT“
DK2OM	7039,0	1930	14	04	RUS	C	A1A			Cluster beacon - Moscow RUS Navy - “RIW”
DK2OM	7039,1	---	---	04	KGZ	A	A1A			Cluster beacon – Bishkek RUS Navy – “RJH25”
DK2OM	7039,2	1647	17	04	RUS	F	A1A			Cluster beacon - Vladivostok RUS Navy - “RJS”
DK2OM	7039,3	---	---	04	RUS	K	A1A			Cluster beacon - Petropavlovsk Kamchatskiy - RUS Navy - Pacific fleet - “RCC”
DK2OM	7039,4	1547	21	04	RUS	M	A1A			Cluster beacon – Magadan RUS Navy – „RTS“
DK2OM	7039,95	ady	dly	04	I	IZ3DVW	A1A			IZ3DVW – uncoordinated beacon, daily, all day
DK2OM	7040,0	vt	dly	04	F	F6BAZ	FSK8	125	1750	ALE, “F6BAZ” – just for info
DK2OM	7040,5	vt	dly	04	HRV		FSK8	125	1750	ALE, “9A5EX” “9A0ALE” – just for info
DK2OM	7045,0	0400	22	04	RUS		F1B	75	200	Sevastopol – also: 25.04.2014 at

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										0642 utc
DK2OM	7045,0	2250	24	04	RUS		F1B	75	200	Sevastopol
DK2OM	7047,37	1700	20	04	D		FSK8	125	1750	ALE, "DL0NOT" – just for info!
DK2OM	7049,5	vt	dly	04	HRV G F	9A0ALE M1DFO F6BAZ	FSK8	1250	1750	Amateur ALE, just for info!
DK2OM	7054,0	---	---	04	RUS		F1B	50	200	CIS50-50 - RUS Navy Moscow – not active
DK2OM	7055,0	1425	30	04	CHN		FMCW		30k	Chinese OTH radar – 7055 – 7085 kHz - 43.5 sps
DK2OM	7055,5	vt	vd	04	GEO		FSK8	125	1750	ALE, "111" "132" "133" - Georgia
DK2OM	7057,0	2200	18	04	MEa		FSK8	125	1750	ALE, "145" "168" – ship, East Black Sea
DK2OM	7057,0	2305	23	04	RUS		PSK2A	120	2600	AT3004D - Penza
DK2OM	7060,0	1856	09	04	FEa		FMCW		32k	CODAR like ocean radar with 2.5 sps – 7060 – 7092 kHz – daily – audible via Japan and Australia
DK2OM	7070,0	vt	dly	04	GEO	no ITU	FSK8	125	1750	ALE, "MV" "244" "686" "334" "204" "571" – daily active
DK2OM	7070,0	1632	24	04			PSK2A	120	2600	AT3004D – Far East Russia
DK2OM	7076,0	1822	30	04	RUS		F1B	75	250	Kaliningrad
DK2OM	7088,8	1557	28	04	S	SL0FRO	A1A			7088.830 - cw-trainee, Sweden – kHz – SL0FRO - just for info!
DK2OM	7089,8	0320	22	04	TUR		PSK8	2400	2400	Link11 - SLEW – aircraft – Turkish S. coast - Antalya
DK2OM	7090,0	1345	18	04	RUS		F1B	40.5	500	system Frost 1 – Far East Russia
DK2OM	7090,2	2040	24	04	RUS		PSK4A/B	120	3300	AT3104D – 2 pilottones - Severomorsk – 7090.15 center
DK2OM	7099,5	vt	dly	04	HRV	9A0ZG	FSK8	125	1750	ALE, "9A0ZG" "9A5EX" "9A0OS" – daily - just for info!
DK2OM	7101,8	1554	17	04	G		PSK8	2400	2400	Stanag4285 – 600 bps – East of Great Britain
DK2OM	7102,0	vt	dly	04	HRV SUI D	9A0ALE	FSK8	125	1750	ALE, "9A0ALE" "9A2KS" "HB9MHB" "9A0ZG" "DK0ESD" – just for info!
DK2OM	7105,0	2200	dly	03	CHN		unid		7.5k	broadband digital signal – 7105 kHz center – daily at 2200 - 2300 utc – jammer? – West-China
DK2OM	7110,0	vt	dly	04	HRV	9A0ALE	FSK8	125	1750	ALE, "9A0ALE" – just for info
DK2OM	7110,0	vt	dly	04			FSK8	125	1750	ALE, "1101" "1112"
DK2OM	7119,0	1315	29	04	RUS		PSK2	120	2600	AT3004D – modem idle – Far East Russia
DK2OM	7120,0	1700	dly	04	SOM		A3E		9k	Radio Hargaysa Somalia, daily
DK2OM	7137,0	vt	dly	04	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	7152,5	1600	13	04	CHN		OFDM	60	2350	OFDM 30 – China – also: 18.04.2014
DK2OM	7153,0	2100	22	04	RUS		F1B	75	200	Sevastopol
DK2OM	7155,5	1830	06	04	RUS		PSK2	120	2600	AT3004D – submode idle – St. Petersburg
DK2OM	7155,7	1613	13	04	CHN		OFDM	60	2350	OFDM 30 - China
DK2OM	7160,0	1050	29	04	CHN		FMCW		40k	Chinese OTH radar – 7160 – 7200 kHz - 43.5 sps
DK2OM	7170,0	0954	04	04	RUS		F1B	40.5	500	Far East Russia
DK2OM	7176,0	1340	10	04	RUS		PSK2	120	2600	AT3004D – Far East Russia – also: 25.04.2014 at 1625 utc
DK2OM	7183,0	vt	dly	04	SUI		FSK8	125	1750	ALE, "HB9MHB" – just for info!
DK2OM	7185,5	vt	dly	04	D HRV		FSK8	125	1750	ALE, "9A5EX" "DK0ESD" just for info - daily
DK2OM	7190,0	1825	dly	04	TUR		A3E		30k	spurious from Voice of Turkey on 7205 kHz +/- 15 kHz – daily

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										from 1825 – 1930 utc – transmission in German
DK2OM	7196,0	0607	16	04	RUS		A1A			encrypted CW, Krasnodar
DK2OM	7197,0	vt	dly	04	TUR		FSK8	125	1750	ALE, “8241” “206102” “8151” “3021” “3761” “8021” “8141” “3061” “3241” “8411” – Turkish Sivil Avunma = Turkish Civil Defense - source: DL8AAM
DK2OM	7200,0	2200	dly	04	CHN TWN		A3E			Sound of Hope TWN and Chinese jammer – 2 carriers 4 Hz difference - daily
DK2OM	7200,0	0734	27	04	F	names	USB			French persons out of band
DK2OM	10100,8	ady	dly	04	D		F1B	50	450	Baudot - German Weatherservice – legal!
DK2OM	10113,0	vt	dly	04	TUN	no ITU	FSK8	125	1750	ALE, “TUD”
DK2OM	10114,8	0604	16	04	RUS		F1B	100	1000	CIS14 – Penza - daily
DK2OM	10115,0	vt	vd	04			FSK8	125	1750	ALE, “2001” “2002”
DK2OM	10122,0	0818	24	04	E		USB			Spanish fishery
DK2OM	10123,0	vt	dly	04	ALG	no ITU	FSK8	125	1750	ALE, “CM3” “COF” “BSF” “CM2” “ESA”
DK2OM	10123,0	1604	15	04	MRC		USB			Moroccan fishery – also: 19.04.2014 at 0749 utc - daily
DK2OM	10123,0	1640	21	04	G		USB			fishery English voice – east of Aberdeen
DK2OM	10125,1	0800	01	04			MFSK	40	1350	CIS36 -
DK2OM	10130,0	vt	dly	04	MRC		FSK8	125	1750	Thales 3000 – West Sahara – daily - vt
DK2OM	10134,0	1711	02	04	RUS		PSK2	120	2600	AT3004D – St. Peterburg
DK2OM	10136,0	vt	dly	04	ALG		FSK8	125	1750	ALE, “CM3” “BLD” “CNC” “TF2”
DK2OM	10136,0	ady	dly	04	RUS		F1B	50	200	Chita – Far East Russia - daily
DK2OM	10144,0	ady	dly	04	D	DK0WCY	A1A			10143.986 kHz - DK0WCY – German aurora beacon – just for info!
DK2OM	10145,5	vt	dly	04	HRV S / D F / G	9A5EX	FSK8	125	1750	ALE, “9A5EX” “SM5VRH” “DK0ESD” “F6BAZ” “MIDFO”- just for info - daily
DK2OM	14000,0	1750	03	04	INS		USB			Indonesian pirates
DK2OM	14000,0	1329	22	04	CHN		FMCW		40k	OTH radar – 13980 – 14020 kHz – 66.67 sps
DK2OM	14000,0	0955	24	04			unid		7000	brodband signal – also: 16000 kHz
DK2OM	14045,0	1609	01	04	RUS		PSK2A	120	2600	AT3004D - Moscow
DK2OM	14055,0	0637	19	04	RUS		FMCW		20k	OTH radar 50 sps – Nizhny Novgorod
DK2OM	14060,0	vt	vd	04	ISR		FSK8	125	1750	ALE, “AAA” - Israel
DK2OM	14089,0	0829	29	04	UKR		F1B	100	500	
DK2OM	14109,0	vt	dly	04	ISR	4X1	FSK8	125	1750	ALE, “4X1” “CT2IXQ” – just for info!
DK2OM	14109,0	vt	dly	04	CAN		FSK8	125	1750	ALE, “VE3GDZ” – just for info!
DK2OM	14135,0	0645	26	04	RUS		FMCW		20k	OTH radar with 10 sps – Nizhny Novgorod
DK2OM	14141,0	0716	17	04	RUS		F1B	75	500	Moscow – also: 25.04.2014 at 0750 utc
DK2OM	14180,0	0754	25	04	RUS		F1B	50	200	Moscow
DK2OM	14192,0	vt	vd	04	RUS		F1B	50	200	RUS navy Kaliningrad
DK2OM	14205,0	vt	dly	04		no ITU	FSK8	125	1750	ALE, “505” “822” – 60 deg. from DL - CHN ?
DK2OM	14209,7	1326	29	04	RUS		OFDM	44.44	2200	OFDM40 – Far East Russia
DK2OM	14211,0	0648	13	04	RUS		F1B	50	250	Far East Russia
DK2OM	14212,1	0645	25	04	RUS		OFDM	35.5	2750	OFDM 60 - Kaliningrad
DK2OM	14221,0	2029	16	04	KGZ		F1B	50	200	idle - Bishkek
DK2OM	14236,7	0720	17	04	RUS		OFDM	35.5	2700	OFDM 60 - Bryansk
DK2OM	14250,0	1454	11	04	RUS		FMCW		20k	OTH radar 10 sps – Nizhny Novgorod
DK2OM	14253,0	1450	11	04	RUS		F1B	75	250	Penza – also: 30.04.2014 at 0920 utc

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	14255,0	0906	10	04	RUS		PSK2A	120	2600	AT3004D - Penza
DK2OM	14260,0	vt	dly	04	SRB		FSK8	125	1750	ALE, "YU1BI" – just for info!
DK2OM	14261,0	1555	12	04	RUS		FMCW		10k	OTH radar 50 sps – Nizhny Novgorod
DK2OM	14265,0	vt	vd	04	TUR		FSK8	125	1750	ALE, "526"
DK2OM	14265,0	0644	19	04	RUS		PSK2A	120	2600	AT3004D - Penza
DK2OM	14280,0	1010	Wed	04	UKR		A3E			female voice with encrypted msgs – figures – "SZRU" = Foreign Intelligence Service of Ukraine at Rivne – every Wednesday
DK2OM	14281,0	1351	10	04	RUS		FMCW		14k	OTH radar 50 sps – Nizhny Novgorod
DK2OM	14295,0	vt	dly	04	SRB	YU1BI	FSK8	125	1750	ALE, "YU1BI" – just for info!
DK2OM	14295,1	ady	dly	04	TJK		A3E			3 rd from Radio Tajik on 4765 kHz
DK2OM	14304,0	1358	04	04	RUS		F1B	75	250	idle and traffic – very unclean - Moscow
DK2OM	14306,0	1230	01	04	RUS		PSK2A	120	2600	AT3004D - Penza
DK2OM	14317,0	vt	vd	04	RUS	RCV	A1A			RUS naval base Sevastopol - encrypted, cyrillic letters
DK2OM	14322,0	vt	dly	04	CHN		FSK8	125	1750	ALE, "402"
DK2OM	14328,0	vt	dly	04	CHN		FSK8	125	1750	ALE, "139" "534" "772" – West China
DK2OM	14330,0	vt	dly	04			FSK8	125	1750	ALE, "BV4"
DK2OM	14344,7	0817	15	04	CHN		PSK8	2400	2400	preamble similar MIL-188-110A - 600 bps short – 14344.650 kHz – daily, all day
DK2OM	14346,0	1836	04	04	HRV RUS D		FSK8	125	1750	ALE, "9A0ZG" "RX3ARZ" "DK0ESD" – just for info – various times, daily
DK2OM	14346,0	vt	dly	04	THA	HS0ZEA	A1A			HS0ZEA beacon – 14345.950 kHz - every 5 minutes – just for info!
DK2OM	18070,0	0915	08	04	CYP		FMCW		20k	OTH radar Cyprus – 50 sps – even audible in Japan
DK2OM	18075,0	1624	15	04	CYP		FMCW		20k	OTH radar Cyprus – 25 sps
DK2OM	18080,0	0600	dly	04	TWN CHN	SOH	A3E		9k	Sound of Hope Taiwan and Chinese mainland BC
DK2OM	18100,0	vt	dly	04	MRC	no ITU	FSK8	125	1750	ALE, "C3" "R3" "G3"
DK2OM	18107,0	0747	27	04	RUS	RDL	F1B	50	200	Moscow – idle and traffic – Russian navy – various days and times – legal operation
DK2OM	18117,5	1724	21	04	POR	CT2IXQ	FSK8	125	1750	ALE, "CT2IXQ" – just for info
DK2OM	18140,0	vt	dly	04	SRB	YU1BI	FSK8	125	2600	ALE, "YU1BI" – just for info!
DK2OM	18170,0	1646	20	04	CYP		FMCW		20k	OTH radar Cyprus – 50 sps
DK2OM	21000,0	1730	28	04	SDN		USB			MFA Sudan – Khartoum with emba Yemen – voice traffic
DK2OM	21000,0	ady	dly	04	RUS		USB			vocoder Yakhta - encrypted voice traffic – Nizhny Tagil – even audible in Japan
DK2OM	21000,0	0802	27	04	F		FMCW		20k	OTH radar – 6 sps bursts – South France – full hour 02 min. and then every 15 min.
DK2OM	21001,5	ady	dly	04	RUS		F1B	100	150	vocoder Yakhta inband synchro – Nizhny Tagil
DK2OM	21002,0	1610	30	04	FEa		LSB			Far East pirates
DK2OM	21002,1	1731	28	04	SDN	!0000	F1B	100	170	21002.15 kHz - Pactor 1 encrypted – MFA Sudan – Khartoum with emba Yemen – daily, vt
DK2OM	21010,0	1555	18	04	CYP		FMCW		20k	OTH radar Cyprus – 50 sps
DK2OM	21060,0	1700	14	04	TUR		FMCW		20k	OTH radar NW Turkey – 50 sps
DK2OM	21096,0	vt	dly	04	INS	YD00XH	FSK8	125	1750	ALE, "YD00XH3" – daily, various times - just for info!
DK2OM	21130,0	1430	06	04	MRC		USB			Moroccan fishery
DK2OM	21131,0	1454	13	04	CHN		FSK8	125	1750	ALE, "A92" "L02" – Chinese Navy?

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	21141,0	1400	07	04	GEO		PSK8	2400	2400	MIL-188-141B-App. C – traffic Georgia with Kabul (AFG)
DK2OM	21141,5	vt	vd	04	MEa		PSK8	2400	2400	MIL-188-141B – App.C – daily, various times
DK2OM	21145,0	vt	dly	04	MRC		FSK8	125	1750	ALE, “B301”, “C3”, “IR4” “T4” “E4” “A2” “CD” “K3” “KB2” “J5” “GS4” – various times, daily
DK2OM	21295,0	0910	30	04	AUS		FMCW		10k	Australian OTH burst radar – 31 sps
DK2OM	21318,5	0910	10	04	GNB		F1D	600	600	21318,545 - DPRK-FSK 600 – North Korean emba Guinea-Bissau
DK2OM	21380,0	1641	28	04	E	PEPE	USB			Spanish pirates, male and female (Cadiz)
DK2OM	21385,0	1503	04	04	RUS		FMCW		10k	OTH radar with 10 sps – Nizhny Novgorod
DK2OM	21400,0	0847	29	04	RUS		F1B	50	2000	harmonic from 5350 kHz – area of Moscow - daily
DK2OM	21409,5	0637	17	04	RUS		F1B	100	2000	CIS14 – harmonic from 10704.75 - Jekaterinburg
DK2OM	21414,0	1627	28	04	E	PEPE	USB			Spanish pirates, male and female – same as 21420 kHz
DK2OM	21420,0	1500	02	04	E	„Pepe“	USB			Spanish pirates, male and female (Cadiz) – daily at 1500 or 1600 utc – on 06.04.14 at 1720 utc – also: 21480 and 20980 USB!
DK2OM	21420,0	1440	03	04	E		A3E			IM from 21515 and 21610 – Radio Exterior de Espana
DK2OM	21420,0	1530	03	04	RUS		FMCW		10k	OTH radar with 10 sps – Nizhny Novgorod
DK2OM	21420,0	1515	18	04	RUS		FMCW		20k	OTH radar with 10 sps – Nizhny Novgorod – short burst
DK2OM	21422,3	1255	20	04	INS		LSB			Indonesian pirates – male and female
DK2OM	21425,0	1430	04	04	RUS		FMCW		10k	OTH radar with 10 sps – Nizhny Novgorod
DK2OM	21430,0	1431	03	04	E		USB			Spanish pirates
DK2OM	21438,0	1437	04	04	RUS	RCV	A1A			RIP90 de RCV - RUS Navy Sevastopol - daily
DK2OM	21440,0	1444	03	04	E		USB			Spanish pirates
DK2OM	21446,0	ady	dly	04	THA	HS0ZEA	A1A			HS0ZEA beacon – every 5 minutes - just for info!
DK2OM	25000,0	ady	dly	04	FIN		A3E			time signal Helsinki – just for info – carrier on 25000 – dots on 25001 and 24999 – daily, all day
DK2OM	28000,0	vt	dly	04	CIS		F3E			28000 – 29700 numerous CIS taxi nets – mostly Russia
DK2OM	28000,0	ady	dly	04	B		A3E			Brazilian CBers – 28000 - 28315
DK2OM	28005,0	ady	dly	04	RUS		F3E			taxi net St. Peterburg, daily, all day
DK2OM	28025,0	1833	09	04	POR		F1B	51	320	F1B bursts - west of Lisbon – daily
DK2OM	28025,0	0910	29	04	FEa		F3E			Far East pirates
DK2OM	28030,0	1656	15	04	POR		F1B	51	320	F1B bursts - west of Lisbon – daily, all day
DK2OM	28035,0	vt	dly	04	RUS		F3E			taxi Moscow - daily
DK2OM	28040,1	1833	07	04	POR		F1B	51	320	F1B bursts - west of Lisbon – Enagal GPS buoys - daily
DK2OM	28050,0	vt	dly	04	POR		F1B	51	320	F1B bursts - 28100.160 kHz - west of Lisbon – Enagal GPS buoys - daily
DK2OM	28055,0	vt	dly	04	RUS		F3E			taxi Moscow - daily
DK2OM	28065,0	vt	dly	04	RUS		F3E			taxi Moscow - daily
DK2OM	28085,0	1731	01	04	POR		F1B	51	320	F1B bursts - 28100.160 kHz - west of Lisbon – Enagal GPS buoys - daily
DK2OM	28085,0	0948	16	04	FEa		A3E			Far East pirates

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	28100,2	vt	dly	04	POR		F1B	51	320	F1B bursts - 28100.160 kHz - west of Lisbon – Enagal GPS buoys - daily
DK2OM	28105,0	vt	dly	04	RUS		F3E			taxi Moscow
DK2OM	28115,0	vt	dly	04	RUS		F3E			taxi – Kazan – daily – disturbing AFU PSK on 28120
DK2OM	28125,0	vt	dly	04	POR		F1B	51	320	F1B bursts - 28100.160 kHz - west of Lisbon – Enagal GPS buoys - daily
DK2OM	28135,0	vt	dly	04	RUS		F3E			taxi – Barnaul - daily
DK2OM	28146,0	vt	vd	04	ARG B		FSK8	125	1750	ALE, “LU8EX” “PY2TI” “DL1” – just for info!
DK2OM	28200,0	vt	dly	04	POR		F1B	51	300	F1B bursts - west of Lisbon – Enagal GPS buoys - daily
DK2OM	28205,0	vt	dly	04	RUS		F3E			taxi Moscow
DK2OM	28215,0	vt	dly	04	RUS		F3E			taxi Moscow
DK2OM	28255,0	vt	dly	04	RUS		F3E			taxi Moscow
DK2OM	28265,0	vt	dly	04	RUS		F3E			taxi Moscow
DK2OM	28275,0	1844	07	04	E		A3E			Spanish CBers
DK2OM	28300,0	1410	17	04	IRN		FMCW		50k	OTH radar Iran – 307 and 870 sps – jumping – splattering +/- 300kHz
DK2OM	28305,0	vt	dly	04	RUS		F3E			taxi - Arkhangelsk
DK2OM	28435,0	1730	24	04	E		F1B	81.9	140	Datawell-buoy “Waverider” – 28435.040 kHz – Costa del Sol - Malaga
DK2OM	29250,0	---	--	04	E		F1B	81.9	140	Datawell-buoy “Waverider” – 29249.905 kHz – Fuerteventura - daily, all day
DK2OM	29375,0	---	--	04	I		F1B	81.9	140	Datawell-buoy “Waverider” – 29374.898 kHz – Galatone, South Italy - daily, all day
DK2OM	29387,5	---	--	04	IND		F1B	81.9	140	Datawell-buoy “Waverider” – 29387,460 kHz – Indian NW coast, close to Pakistan - daily, all day
DK2OM	29450,0	1328	17	04	MRC		F1B	81.9	140	Datawell-buoy “Waverider” – 29449.870 kHz - area of El Aaiun – Morocco - daily, all day
DK2OM	29500,0	---	--	04	G		F1B	81.9	140	Datawell-buoy “Waverider” – area of Gibraltar – daily, all day
DK2OM	29525,0	---	---	04	MRC		F1B	81.9	140	Datawell-buoy “Waverider” – 29524.990 kHz - Agadir - Morocco – daily, all day

IRTS – Ireland – EI5DD (Steve)

KARS – Kuwait – 9K2RR (Faisal)

MRASZ 1 – Hungary - HA7PL (Laci)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
MRASZ	3500,0	2005	17	4			OTHR			till 3525 kHz, about 330 sweep/sec
MRASZ	3510,0	2020	17	4			A3E			music, from 2 x 1755 kHz
MRASZ	3510,0	1905	23	4			A3E			music
MRASZ	3520,0	1833	1	4			A3E			russian language
MRASZ	3520,0	2005	17	4			USB			russian language
MRASZ	3520,0	1757	20	4			A3E			Ui music
MRASZ	3524,9	1803	26	4			F1B			wobbler 2,2 kHz wide
MRASZ	3540,0	2007	17	4			LSB			Ui language
MRASZ	3556,4	2011	17	4			LSB			Ui language
MRASZ	3559,9	2011	17	4			LSB			french language

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
MRASZ	3595,0	1828	1	4			USB			numbers, russian female
MRASZ	3595,0	1556	18	4			USB			russian, numbers from 1 to 8
MRASZ	3642,0	1835	17	4	CHN		A1A			"DK6G (3) de 3A7D (2) V"
MRASZ	3660,0	1755	22	4			A3E			music
MRASZ	3767,0	1832	11	4			PSK2			AT3004D
MRASZ	3790,0	1835	11	4			USB			russian language, with strong echo
MRASZ	3797,0	1758	22	4			A1A			„RIC87 de RCV QTD”
MRASZ	7000,0	1855	1	4			LSB			italian language
MRASZ	7000,0	1507	5	4			LSB			italian language
MRASZ	7000,1	1726	22	4			USB			Ui language
MRASZ	7000,5	1807	17	4			LSB			Ui. language
MRASZ	7008,0	1652	28	4	RUS		F1B		200	
MRASZ	7008,3	1809	17	4			F1B		250	
MRASZ	7016,0	1651	28	4			F1B		250	
MRASZ	7022,0	1724	22	4	RUS		PSK2			AT3004D
MRASZ	7024,4	1824	9	4			A1A			non ham transmission
MRASZ	7026,0	1811	17	4			PSK2			AT3004D
MRASZ	7026,3	1445	4	4			A1A			V string
MRASZ	7038,7	1850	1	4	UKR	D	A1A			"D" beacon, hrd on: 2,4,9,11,17,22,23,26,28
MRASZ	7038,8	1850	4	4	RUS	P	A1A			„P” beacon, hrd on: 11,
MRASZ	7038,9	1850	1	4	RUS	S	A1A			"S" beacon, hrd on:2,9,17,22,23,28,26,28
MRASZ	7039,0	1850	1	4	RUS	C	A1A			"C" beacon, hrd on: 2,9,11,17,
MRASZ	7039,2	1850	1	4	RUS	F	A1A			"F" beacon, hrd on: 2,9,17,
MRASZ	7040,9	1832	2	4			A1A			„ATMY (3) Q2IY(2)K” 15 kHz wide click
MRASZ	7043,0	0808	5	4			LSB			italians
MRASZ	7055,0	1853	23	4			F1B		250	
MRASZ	7070,0	0848	6	4			LSB			italian ham with music
MRASZ	7090,0	1807	26	4	RUS		PSK2			AT3004D, also hrd on: 26, 28
MRASZ	7092,0	1530	20	4			PSK8			Stanag 4825?
MRASZ	7099,2	1409	5	4			A1A			long V string
MRASZ	7102,0	1818	17	4			PSK8			Stanag 4825?
MRASZ	7117,6	1646	5	4			A1A			5 figures
MRASZ	7120,0	1842	2	4	SOM		A3E			BC R.H. hrd on: 5,9,11,17,18,19,22,23,26,
MRASZ	7153,0	1716	22	4			F1B		200	
MRASZ	7153,0	1808	26	4			F1B		200	
MRASZ	7158,0	1552	20	4			PSK2			AT3004D
MRASZ	7164,0	1639	5	4			PSK2			AT3004D
MRASZ	7165,0	1442	4	4			A3E			Ui BC
MRASZ	7165,0	1809	26	4			A3E			Ui BC
MRASZ	7175,0	1717	22	4			A3E			
MRASZ	7176,0	1512	19	4			F1B		250	
MRASZ	7180,0	1600	20	4			PSK2			AT3004D
MRASZ	7181,7	1810	26	4			NON			
MRASZ	7190,0	1509	19	4			A3E			italian, Pino, Sandro
MRASZ	7200,0	1811	26	4			A3E			BC
MRASZ	10117,0	1727	22	4			OTHR			
MRASZ	10120,0	1820	17	4						ALE?
MRASZ	10138,0	0903	20	4			OTHR			
MRASZ	14000,2	1732	22	4			NON			
MRASZ	14045,0	1910	1	4			PSK2			AT3004D
MRASZ	14050,0	1918	1	4			OTHR			
MRASZ	14100,0	1730	22	4			USB			Ui language
MRASZ	14141,0	0905	20	4	RUS		F1B		500	
MRASZ	14162,0	1644	28	4						
MRASZ	14192,0	0930	6	4	RUS		F1B		400	
MRASZ	14221,0	1906	1	4	KGZ		F1B		200	
MRASZ	14222,0	1553	18	4			OTHR			
MRASZ	14243,0	1903	1	4			A1A			cont dots, disturbing other stn.
MRASZ	14253,0	1450	4	4	RUS		F1B		250	
MRASZ	14253,0	1418	18	4	RUS		F1B		250	
MRASZ	14295,1	1859	1	4	TJK		A3E			Radio Tajikistan 3 x 4765 kHz
MRASZ	14295,1	1452	4	4	TJK		A3E			Radio Tajikistan 3 x 4765 kHz

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
MRASZ	14304,0	1453	4	4	RUS		F1B		250	
MRASZ	18070,0	1647	28	4			OTHR			18060-18090
MRASZ	18095,9	1454	4	4			N0N			
MRASZ	18107,0	1425	18	4	RUS	RDL	F1B		200	
MRASZ	18107,0	1734	22	4	RUS	RDL	F1B		200	
MRASZ	18125,0	1736	22	4			OTHR			
MRASZ	21001,5	1746	2	4	RUS		F1B	100	150	Yakhta, hrd on 4,5,9,11,13,17,18,22,23,28
MRASZ	28150,0	1432	18	4			OTHR			300/800 Hz, iranian
MRASZ	28160,0	1431	18	4			OTHR			300/800 Hz, iranian
MRASZ	28200,0	1528	20	4			OTHR			300/800 Hz, iranian
MRASZ	28200,0	1707	28	4			OTHR			300/800 Hz, iranian
MRASZ	28300,0	1431	18	4			OTHR			300/800 Hz, iranian
MRASZ	28470,0	1357	11	4			OTHR			till 28550 kHz, 300/800 Hz, iranian
MRASZ	28870,0	1458	4	4			OTHR			28800-28940 kHz, 300/800 Hz, iranian

OEVSV – Austria – OE3GSA (Gerd)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
oevsv	7000.0	1915	17	04	unid	unid	J3Eu			male group in spanish
oevsv	10101.0	0550	12	04	HC	unid	J3Eu			group talking spanish
oevsv	10103.0	1925	11	04	unid	unid	J3Eu			sounds chinese
oevsv	14045.0	0755	02	04	unid	unid	CIS12			idling
oevsv	14214.8	1955	20	04	unid	unid	J3E			with tones (Selcal ?)
oevsv	18079.9	0750	02	04	unid	unid	A3A			BC in chinese (SOH ?)
oevsv	18079.9	0630	06	04	unid	unid	A3A			BC in chinese (rep to authority)

PZK – Poland – SP9BRP (Jan)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
PZK	14055.00	06:52	19	04		OTH	FMCW			Russia
PZK	21330.00	18:20	22	04		OTH RADAR	FMCW			Mil..?
PZK	7008.00.	19:55	28	04		?	F1B			Rusia

REF 1 – France – F5MIU (Francis)

REF	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD kHz	Sh Hz	DETAILS
F5MIU	14130	7h55	28	4			fmcw	20		OTHR Mil S5 pulsed 5Hz
F5MIU	14182	7h53	29	4			fmcw	20		OTHR Mil S8 pulsed 20Hz
F5MIU	14212	12h34	10	4				25		Pulsed OTHR S4
F5MIU	14240	7h36	8	4			fmcw	25		OTHR Mil S9+10
F5MIU	14240	7h51	28	4			fmcw	30		OTHR Mil S9+ pulsed 20Hz
F5MIU	14305	7h52	29	4			fmcw	20		OTHR Mil S8 pulsed 20Hz
F5MIU	18100	17h10	6	4			fmcw	20		OTHR S8 end17h14 Dir Est
F5MIU	21001.5	7h59	9	4			fsk		150	Synchro voc all days long
F5MIU	21130	7h34	8	4			fmcw	20		OTHR Mil S8
F5MIU	21270	7h45	28	4			fmcw	20		OTHR Mil S8 pulsed 40Hz
F5MIU	21310	7h33	8	4			fmcw	20		OTHR Mil S7
F5MIU	24930	8h13	2	4			fmcw	22		OTHR Mil Dir NE
F5MIU	28170	17h12	9	4				60		Pulsed OTHR 2 freq S3
F5MIU	28200	17h50	16	4				100		Pulsed OTHR
F5MIU	28290	9h04	7	4			fmcw	20		OTHR S6 Dir Est
F5MIU	28590	7h55	9	4			fmcw	25		OTHR Mil S7
F5MIU	28650	7h38	3	4			fmcw	20		OTHR Mil
F5MIU	28690	15h35	19	4			fmcw	20		OTHR Mil S5
F5MIU	28920	17h03	23	4			fmcw	20		OTHR Mil S7 pulsed 40Hz
F5MIU	29230	17h13	9	4				60		Pulsed OTHR 2 freq S4
F5MIU	29450	15h40	19	4			fsk		150	Swell Beacon Marocco S4
F5MIU	29530	12h31	10	4			fmcw	20		OTHR Mil S5

REF 2 – France – F5JBR (Andre)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REF	7196	0500 to 1600	01	04	RUS	3KMA Y5SI XGMU 5T2A PRTS 2VC6 WSOW DQG9 3MZN	A1A			<p>Complet QSO : duration about 5 minutes</p> <p>QTC type : 177 26 12 1045 177 = 403 = DTÖIX KXXRÔ JDGYI BXIFU LWBJK ÛFÂNT VUWWF UXLAC KLIZS ZNRIV +GRAU IÂNYI DWRWO QMIVT +WFZT DJÔBJ WQÔBH DWDAAW PJÛYA ZVFQÛ NXÛHZ EOKLD AWPWT 302 K</p> <p>Release frequency (for testing or traffic flow) type: ZCA ZDS ZFD ZQS ZHF ZDF QSU 3 K</p>
REF	7196	0500 to 1600	02	04	RUS	3KMA Y5SI XGMU 5T2A PRTS 2VC6 WSOW DQG9 3MZN	A1A			IDEM
REF	7196	0500 to 1600	03	04	RUS	3KMA Y5SI XGMU 5T2A PRTS 2VC6 WSOW DQG9 3MZN	A1A			IDEM until April 10, 2014
REF	7196	0500 to 1600	11	04	RUS	M1EP IBNI Z43M NG1Q 3B8B V8QV LGN5 AIE5 QF9E	A1A			IDEM from 11 to 20 April 2014
REF	7196	0500 to 1600	21	04	RUS	F8LQ VN3G 2NOG M6LG Z73X SM9M DCLO 7EMI 8DGK	A1A			As of April 21: new CALLs Traffic : Complet QSO (duration about 5 minutes, QTCs and Release frequency (for testing or traffic flow))
REF	7196	0500 to 1600	22	04	RUS	F8LQ VN3G 2NOG M6LG Z73X SM9M DCLO 7EMI 8DGK	A1A			Same from 21 to 30 April 2014
REF	7280	0500	22	04	RUS	A7SU	A1A			QTC 001 23 22 0901 001 = 113 =

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
		to 1600				CM1F HKNP GNNE GWT9 WLAK				PPPPP BÔUDO ZZSQN WPVSÔ WWPWP 928 RPT AL K CM1F de A7SU QTC 002 23 22 0918 002 = 113 = PPPPP QVÂ+M JMANI X+GJT THNLJ X+GJTWWPWR 928 K A7SU : complet QSO with outstations : CM1F HKNP GNNE GWT9 WLAK
REF	7280	0500 to 1600	23	04	RUS	A7SU CM1F HKNP GNNE GWT9 WLAK	A1A			A7SU complet QSO with outstations CM1F HKNP GNNE GWT9 WLAK
REF	7001	1552	23	04	FRA	FAV22				NR 17 A 23 15:52:17 2014 BT TEXT 5 LETTERS (Norm M51 - French CSTEI Faviees/Vernon)
REF	7016	0345	29	04	RUS					CW transmission (with carrier) to: QRJ 2 and QRJ, and 3 codes Z (ZJV Z. ZEV) and traffic CIS- 75/75/200
REF	7016	0353	29	04	RUS					QRJ 3 QRJ ? K and traffic CIS- 75/75/200 R K

REP – Portugal – CT4AN (Jose Francisco)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REP	3500,0	20.08	12	04			J3E-L			Unid language intruders
REP	3505,0	19.40	22	04			J3E-U			Unid male talks
REP	3535,0	19.10	10	04			J3E-U			Unid language fishery
REP	3555,0	21.44	18	04			J3E-U			Unid ops
REP	3575,0	22.00	01	04	E		J3E-U			Spanish fishery
REP	3615,0	23.11	06	04	MRC		J3E-U			Fishermen
REP	3625,0	07.34	06	04	E+F		J3E-U			Fishermen
REP	3690,0	06.55	06	04	RUS		J3E-U			Navy
REP	3773,0	06.52	13	04	E		J3E-U			Spanish fishery, Galicia province
REP	7000,0	21.28	23	04	B		J3E-U			Lonely brazilian OM calling CQ, no answer
REP	7005,0	10.06	07	04			FMCW			OTH radar
REP	7010,0	16.55	06	04	RUS		J3E-U			WxFax (with strong fade)
REP	7015,0	07.00	20	04	MRC		J3E-U			Fishermen
REP	7030,0	21.28	15	04			FMCW			OTH radar
REP	7030,0	23.00	15	04	E		J3E-U			Fishermen
REP	7038,6	21.05	11	04	RUS	S	A1A			KALININGRAD, ADY, DLY
REP	7038,7	18.05	11	04	UKR	D	A1A			SEVASTOPOL, ADY, DLY
REP	7038,8	19.10	11	04	RUS	P	A1A			MURMANSK, ADY, DLY
REP	7039,0	23.51	03	04	RUS	C	A1A			MOSCOW, ADY, DLY
REP	7039,5	22.25	03	04	RUS	M	A1A			MAGADAN, ADY, DLY
REP	7054,1	23.52	04	04	RUS		F1B	50	200	Encrypted FSK system
REP	7070,0	16.12	16	04	I		J3E-L			Music + QSOs jamming
REP	7120,0	22.11	16	04	SOM		8k00 A3EGN			Broadcasting - Radio Hargaysa
REP	10101	19.02	18	04			J3E-U			Unid arabic OM's
REP	10115	22,52	07	04	UKR		J3E-U			Mil stations (?)
REP	10119	22.03	03	04	B		J3E-U			Large brazilian military net
REP	10119	20.16	19	04	B		J3E-U			Brazilian military, faint
REP	10120	21.01	10	04			FMCW			OTH radar
REP	10121	21.05	13	04	MRC		J3E-U			Moroccan fishery
REP	10123	20.16	19	04	MRC		J3E-U			Moroccan fishery
REP	10123	21.07	24	04	G		J3E-U			British fishermen
REP	10125	21.17	24	04	E	Mauricio	J3E-U			Spanish fishery, Galicia province
REP	10130	11.08	23	04	E		J3E-U			Spanish fishery, Galicia
REP	10130	21.04	13	04	MRC		J3E-U			Moroccan fishery

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REP	10135	21.24	29	04			FMCW			OTH radar 20kHz
REP	10140	18.00	02	04			FMCW			OTH radar
REP	10140	21.19	10	04			FMCW			OTH radar very WB
REP	10140	20.36	19	04			FMCW			OTH radar 20kHz/50 cps
REP	10141	09.18	20	04	E		J3E-U			Spanish fishery, Galicia
REP	10142	20.44	15	04			A3E			Letters 5, groups 10, female voice
REP	10150	18.51	12	04			FMCW			OTH radar 20kHz
REP	10150	21.20	24	04	E	Miguel	J3E-U			Spanish fishery
REP	14000	16.11	27	04			A1			Carrier
REP	14001	09.02	01	04			F1B			Not Standard speed
REP	14010	22.30	17	04	E		J3E-U			Male voices about weather
REP	14010	10.55	14	04			J3E-U			Unid language male
REP	14026	12.05	01	04	RUS		J7D			Russian AT300D FSK modem
REP	14035	13.12	26	04			J3E-U			Unid ops, language
REP	14050	10.30	14	04			F1B	300	425	RY RY RY
REP	14140	12.55	28	04	RUS		FMCW			OTH radar 10kHz/10 cps, Russia
REP	14140	11.09	26	04			FMCW			OTH radar 20kHz/50 cps
REP	14145	14.28	24	04	I		J3E-U			Talks ship to ship about fish
REP	14185	14.59	24	04	I		J3E-U			Music jamming over QSOs
REP	14192	13.56	10	04	RUS		F1B	50	250	Encrypted russian FSK station
REP	14213	12.15	17	04	RUS	S06s	A3E			Numbers station, female voice, russian
REP	18090	09.29	21	04			FMCW			OTH radar
REP	21000	13.53	28	04			FMCW			OTH radar splatter from 20990kHz, 20kHz
REP	21001	09.12	05	04	RUS		F1B	100	150	Russian in band synch, daily
REP	21115	16.43	21	04			J3E-U			Fishermen intruders
REP	21660	19.22	22	04			FMCW			OTH radar 20kHz/25 cps
REP	24990	09.13	05	04			FMCW			OTH radar 20kHz/50 cps
REP	28205	12.10	29	04			FMCW			OTH radar
REP	28230	11.55	08	04	IRN		FMCW			OTH radar, Iran
REP	28280	13.23	06	04	RUS		F3E			Taxi dispatcher
REP	28340	18.12	06	04	I		F3E			Talks, 3 females
REP	28380	12.06	22	04	RUS		F3E			YL taxi dispatcher
REP	29130	13.02	22	04	RUS		F3E			Russian taxi
REP	29135	15.51	22	04	RUS		F3E			Russian taxi
REP	29660	09.33	20	04			FMCW			OTH radar

RSGB - Great Britain – G4BOH (Chris)

SRAL – Finland – OH2BLU (Pekka)

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
SRAL	7008,0	0430-2130	*	4	RUS	UiPTR	F1B		200	Days: 9. 17. 18. 28.
SRAL	7012,9	1545	1.	4		UiPTR	F1B		500	
SRAL	7013,0	0615-1730	*	4		UiMUX	PSK2	120	2600	Days: 15. 16. 25.
SRAL	7016,0	1150-2400	28.	4		UiPTR	F1B		250	
SRAL	7016,0	0000-0835	29.	4		UiPTR	F1B		250	
SRAL	7018,0	1530-1545	8.	4		UiMUX	PSK2	120	2600	
SRAL	7020,0	0835-1320	*	4		UiPTR	F1B		250	Days: 11. 16. 18. 29.
SRAL	7028,0	1920	22.	4		UiMUX	PSK2	120	2600	
SRAL	7030,0	1425	28.	4		UiPTR	F1B			
SRAL	7033,0	0420-1200	4. 29.	4		UiPTR	F1B			
SRAL	7035,0	1315	16.	4		UiMUX	PSK2	120	2600	
SRAL	7038,7	h24	dly	4	RUS	D	A1A			Sevastopol
SRAL	7038,8	0330-2130	dly	4	RUS	P	A1A			Kaliningrad
SRAL	7038,9	h24	dly	4	RUS	S	A1A			Severomorsk

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
SRAL	7039,0	0530-2130	dly	4	RUS	C	A1A			Moscow
SRAL	7045,0	0225-0710	25.	4		UiPTR	F1B		200	
SRAL	7048,0	0600	8.	4		UiCW	A1A			MR 5BL
SRAL	7053,0	0630-0930	14.	4		UiMUX	PSK2	120	2600	
SRAL	7076,0	0525-1920/	25. 30.	4		UiPTR	F1B		250	
SRAL	7080,0	1850	24.	4		UiPTR	F1B			
SRAL	7090,5	h24	24.-28.	4		UiMUX	PSK2	120	2600	
SRAL	7114,0	1645-1915	19.	4		UiPTR	F1B/ NON		200	
SRAL	7116,0	0700-0705/	23.	4		UiPTR	F1B		200	
SRAL	7120,0	0245-0430	dly	4	SOM	R. Hargeisa	A3E			
SRAL	7120,0	1500-1900	dly	4	SOM	R. Hargeisa	A3E			
SRAL	7122,0	0745-1400	9.	4		UiPTR	F1B			
SRAL	7126,0	0230-0440	2.	4		UiMUX	PSK2	120	2600	
SRAL	7146,0	0420	1.	4		UiPTR	F1B			
SRAL	7153,0	h24	21.-28.	4	RUS	UiPTR	F1B		200	
SRAL	7155,0	1455-1800	25.	4		UiMUX	PSK2	120	2600	
SRAL	7160,0	0525	30.	4		UiCW	A1A			MR 5L
SRAL	7162,0	0800-1430	*	4		UiPTR	F1B		250	Days: 1. 8. 20. 21. 23. 25. 28. 30.
SRAL	7166,0	1630-1930	13.	4		UiMUX	PSK2	120	2600	
SRAL	7176,0	1640-1915	30.	4		UiPTR	F1B		200	
SRAL	7178,0	0800-0930	3.	4		UiMUX	PSK2	120	2600	
SRAL	7181,8	0250-1915	*	4		UiCarr	N0N			Days: 26. 27. 28.
SRAL	7190,0	0415-0600	1. 3.	4		UiMUX	PSK2	120	2600	
SRAL	7192,0	1830-1915	14.	4		UiMUX	PSK2	120	2600	
SRAL	7196,0	0650-1230	*	4		3KMA etc	A1A			Days: 9. 15. 25. Procedures
SRAL	7198,0	1530-1920	23. 24.	4		UiMUX	PSK2	120	2600	
SRAL	14000,0	0550-1930	29.	4		UiCarr	N0N			
SRAL	14000,0	0415-0850	30.	4		UiCarr	N0N			
SRAL	14008,0	0945	9.	4		UiPTR	F1B		250	
SRAL	14024,0	0825	19.	4		UiPTR	F1B			
SRAL	14045,0	0855-1205	1.	4		UiMUX	PSK2	120	2600	
SRAL	14080,0	0600-0605/	1.	4		438	R3E-u			Synth. vox
SRAL	14102,0	1725	16.	4		UiMUX	PSK2	120	2600	
SRAL	14102,0	0605	17.	4		UiMUX	PSK2	120	2600	
SRAL	14141,0	0610-1305	*	4	RUS	UiPTR	F1B		500	Days: 5. 9. 16. 18. 20. 25. 28.
SRAL	14160,0	0955-1240	9.	4	RUS	UiPTR	F1B		250	
SRAL	14180,0	1030-1930	23. 24.	4	RUS	UiPTR	F1B		200	
SRAL	14253,0	0535-1510/	*	4	RUS	UiPTR	F1B		250	Days: 3. 7. 11. 14. 18. 21. 25. 28.

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
SRAL	14255,0	0810-0925	10.16.	4		UiMUX	PSK2	120	2600	
SRAL	14263,0	0825-0855/	11.	4		UiCW	A1A			BL
SRAL	14265,0	0655	19.	4		UiMUX	PSK2	120	2600	
SRAL	14295,2	h24	dly	4	TJK	R Tojikiston	A3E			3f 4765,07 kHz, Yangiyul TX
SRAL	14304,0	0855-1920	*	4	RUS	UiPTR	F1B		250	Days: 1. 4. 17.
SRAL	14306,0	0810-1135	*	4	RUS	UiMUX	PSK2	120	2600	Days: 1. 17. 22.
SRAL	14 MHz	0530-1500	*	4	RUS	29B6	FMCW			50Hz / 10 kHz, days: 2. 7. 9. 10. 11. 14. 19. 21. 28.
SRAL	18 MHz	0415-1800	*	4	CYP / TUR	UiOTHR	FMCW			50Hz / 20 kHz, days: 1. 5. 6. 8. 13. 21. 22. 23. 28.
SRAL	18072,0	1300	11.	4		UiPTR	F1B		500	
SRAL	18080,0	0650	16.	4		UiBC	A3E			
SRAL	21 MHz	0530-1630	*	4	CYP / TUR	UiOTHR	FMCW			50Hz / 20 kHz, 2. 16. 19. 20. 22. 23. 27. 28.
SRAL	21001,5	0445-1700	1.-28.	4	RUS	UiVocod	F1B		140	Subcarr.
SRAL	21438,0	0730-1530	dly	4	RUS	RCV	A1A			procedures
SRAL	24 MHz	1210	1.	4	CYP / TUR	UiOTHR	FMCW			
SRAL	28 MHz	0430-1600	*	4	IRN	UiOTHR	FMCW			307 & 870 Hz / 60 kHz, days: 1.-6. 8.-15. 17.-20 27.
SRAL	28 MHz	0700-1500	*	4	CYP / TUR	UiOTHR	FMCW			25 & 50Hz / 20 kHz, days: 1. 8. 10. 12. 16. 19. 20. 24. 27.
SRAL	28 MHz	0700-1145	*	4	RUS	Taxi disp.	F3E			Days: 1. 2. 6. 12. 18. 10 reports
SRAL	28100,0	0745-0935/	14.	4		UiOTHR	FMCW			12.5 Hz / 40 kHz

USKA – Switzerland – HB9CET (Peter)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	7000.0	2201	01	04		D	A1A			Beacon D spurious of 7038.7 daily
USKA	7000.0	2150	12	04			N0N			long lasting carrier often
USKA	7000.0	2301	28	04			J3E-U			southeast asian language
USKA	7000.0	2305	28	04		XH	MFSK8	125	1750	MIL 188-141A
USKA	7000.0	2313	28	04		120	MFSK8	125	1750	MIL 188-141A
USKA	7000.0	2317	28	04		122	MFSK8	125	1750	MIL 188-141A
USKA	7000.0	1827	29	04		21001	MFSK8	125	1750	MIL 188-141A
USKA	7000.0	1833	29	04		21093	MFSK8	125	1750	MIL 188-141A
USKA	7000.0	1845	29	04		509	MFSK8	125	1750	MIL 188-141A
USKA	7000.4	0851	11	04			PSK-8	2400	2k4	Link 11 SLEW
USKA	7001.8	0832	29	04			PSK-8	2400	2k4	Stanag 4285; frame format 600bps 600bps/short
USKA	7008.0	2211	17	04			F1B	75	250	often
USKA	7008.0	2255	28	04			F1B	75	200	
USKA	7010.0	2257	29	04		810416	MFSK8	125	1750	MIL 188-141A
USKA	7010.0	2304	29	04		810410	MFSK8	125	1750	MIL 188-141A
USKA	7012.8	1750	15	04			OFDM60	35.55	2k7	Spacing 44.45Hz; Pilottone
USKA	7012.8	1759	15	04			J3E-U			Russian (after OFDM stopped)
USKA	7013.0	2231	28	04			F1B	100	500	
USKA	7016.0	2237	28	04			F1B	100	250	
USKA	7019.875	0750	11	04			A1A			Jammer, badly interfering the band (clicks >3kHz)!
USKA	7020.0	0750	11	04			F1B	75	250	
USKA	7020.0	2012	27	04			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D
USKA	7020.0	2226	29	04		820699	MFSK8	125	1750	MIL 188-141A
USKA	7020.0	2238	29	04		810611	MFSK8	125	1750	MIL 188-141A

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	7020.0	2245	29	04		820605	MFSK8	125	1750	MIL 188-141A
USKA	7020.0	2247	29	04		810616	MFSK8	125	1750	MIL 188-141A
USKA	7030.0	0852	30	04			F1B	81	250	
USKA	7038.7	2251	28	04	UKR	D	A1A			Beacon D Sevastopol daily
USKA	7038.8	2138	03	04	RUS	P	A1A			Beacon P Kaliningrad daily
USKA	7038.9	2244	01	04	RUS	S	A1A			Beacon S Murmansk daily
USKA	7039.0	2246	01	04	RUS	C	A1A			Beacon C Moscow
USKA	7039.2	2142	03	04	RUS	F	A1A			Beacon F Vladivostok
USKA	7039.4	2144	03	04	RUS	M	A1A			Beacon M Magadan daily
USKA	7040.0	0756	11	04			F1B	75	500	
USKA	7045.0	0758	25	04			F1B	75	200	
USKA	7070.0	1926	15	04		244	MFSK8	125	1750	MIL 188-141A
USKA	7070.0	1931	15	04		571	MFSK8	125	1750	MIL 188-141A
USKA	7077.4	2156	29	04		D	A1A			Beacon D spurious of 7038.7 daily
USKA	7089.8	2156	21	04			PSK-8	2400	2k4	Link 11- SLEW often
USKA	7090.2	2314	24	04			J7D	12x120	2k7	PSK-4: CIS12 = AT3104D often 2 Pilottones
USKA	7100.0	0853	25	04			A1 ?			fast dots only
USKA	7101.8	2202	16	04			PSK-8	2400	2k4	Stanag 4285 often Frame format 600bps long
USKA	7117.0	2150	14	04			A1A			no ham content
USKA	7120.0	1855	29	04	SOM		A3E			Radio Hargaysa daily
USKA	7120.95	2142	14	04			A1A			no ham content
USKA	7127.0	2234	02	04			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D
USKA	7137.0	2132	15	04			F1B	50	200	
USKA	7137.0	1634	21	04			F1B	50	1k8	Harmonic ?
USKA	7141.0	1947	29	04			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D
USKA	7147.0	1514	02	04			J7D	12x120	2k7	PSK-4: CIS12 = AT3104D
USKA	7152.5	2135	14	04			OFDM30	60	~2k4	Burst system; BPSK spacing 75Hz, preamble 4x QPSK 60Bd, spacing 600Hz; Pilottone
USKA	7153.0	2218	22	04			F1B	75	200	
USKA	7155.0	1632	25	04			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D often
USKA	7156.5	2134	14	04			OFDM30	60	~2k4	unident burst system, as at 7152.5
USKA	7170.0	0842	16	04			F1B	40.5	500	
USKA	7175.0	0923	26	04			J7D	12x120	2k7	CIS12, weak
USKA	7176.0	0834	21	04			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D 2 pilottones
USKA	7192.0	2146	12	04			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D often
USKA	7196.0	0701	15	04			A1A			letters and figures. no ham content; different ID's
USKA	7197.0	1913	30	04		3361	MFSK8	125	1750	MIL 188-141A
USKA	7197.0	1920	30	04		8241	MFSK8	125	1750	MIL 188-141A
USKA	7197.0	1921	30	04		8761	MFSK8	125	1750	MIL 188-141A
USKA	7197.0	2045	30	04		3341	MFSK8	125	1750	MIL 188-141A
USKA	10123.0	0811	21	04			J3E-U			English dialect, motor sound in background; no ham content
USKA	14000.0	1431	25	04			J3E-U			Southeast asian language
USKA	14000.0	1438	29	04			N0N			long lasting carrier often
USKA	14045.0	0736	02	04			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D
USKA	14054.0	0644	19	04			FMCW	50 sps	15k	OTHR
USKA	14089.0	0852	29	04			F1B	100	500	
USKA	14141.0	0800	25	04			F1B	75	500	often
USKA	14160.0	1517	14	04			FMCW	50 sps	20k	OTHR
USKA	14165.0	1238	30	04			FMCW	50 sps	10k	OTHR
USKA	14169.0	0751	14	04			F1B	50	200	
USKA	14191.9	0804	02	04			F1B	50	400	Harmonic ?
USKA	14192.0	0726	11	04			F1B	50	200	CIS 50-50 almost daily
USKA	14220.0	2135	12	04			F1B	50	200	
USKA	14221.0	2006	27	04			F1B	50	200	
USKA	14225.0	0817	21	04			FMCW	50 sps	~15k	OTHR
USKA	14228.0	1221	30	04			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D
USKA	14253.0	0757	14	04			F1B	75	250	often
USKA	14344.65	2157	03	04			PSK-8	2400	2k4	similar MIL 188-110, modified burst system daily
USKA	18090.0	0848	21	04			FMCW	50 sps	20k	OTHR
USKA	18107.0	0948	02	04			F1B	50	200	CIS36-50 almost daily
USKA	18107.0	1008	02	04			F1B	36	200	CIS36-50 almost daily

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	18130.0	0758	11	04			F1B	100	1k	harmonic of 9065 (500Hz shift)
USKA	21001.5	1011	02	04			F1B	100	150	Vocoder Yakhta daily
USKA	21060.0	1642	14	04			FMCW	50 sps	20k	OTHR
USKA	21090.0	1402	16	04			FMCW	50 sps	20k	OTHR
USKA	21127.0	0828	16	04			FMCW	47 sps	10k	Burst system BD 5.5s, BRI 36s
USKA	21140.8	0810	25	04			PSK8	2400	2k4	MIL 188-xxx system often
USKA	21145.0	1341	01	04		K3	MFSK8	125	1750	MIL 188-141A
USKA	21145.0	1342	01	04		C3	MFSK8	125	1750	MIL 188-141A often
USKA	21145.0	1426	01	04		C4	MFSK8	125	1750	MIL 188-141A
USKA	21145.0	0857	16	04		ELJADIDNET4	MFSK8	125	1750	MIL 188-141A, followed by J3E-U in French
USKA	21145.0	0909	16	04		B301	MFSK8	125	1750	MIL 188-141A
USKA	21145.0	1724	30	04		NOTUS	MFSK8	125	1750	MIL 188-141A
USKA	21146.8	0911	16	04			PSK8	2400	2k4	MIL 188-110A (after ALE)
USKA	21150.0	0655	30	04			FMCW	66.66 sps	10k	OTHR BD ~3.9s
USKA	21176.0	0825	16	04			FMCW	66.66 sps	10k	OTHR BD ~3.9s
USKA	21330.0	0901	17	04			FMCW	50 sps	20k	OTHR
USKA	21409.5	0650	10	04			F1B	100	2k	harmonic of 10704.8
USKA	21420.0	1433	08	04			J3E-U			Man+Woman – long conversation like a phonepatch often
USKA	21435.0	1614	03	04			J3E-U			unid language, like a phonepatch
USKA	21438.0	0731	11	04		RCV	A1A			letters and figures daily
USKA	28510.0	0747	11	04				various	~50k	OTHR Burst system often
USKA	28860.0	1012	02	04			FMCW	various	~50k	OTHR Burst system often
USKA	28915.0	1055	09	04			FMCW	various	~50k	OTHR Burst system often
USKA	29450.0	1021	02	04			F1B	81.92	140	Datawell buoy daily
USKA	29600.0	1531	02	04			FMCW	50 sps	20k	OTHR

Veron 1 – Netherlands – PA2GRU (Dick)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SHIFT	DETAILS
VERON	3548,0	19.41	15	4		UiCAR	A1A		Very strong carrier
VERON	3552,0	18.15	3	4		UiPTR	F1B		Ptr
VERON	3608,0	19.40	15	4		UiPTR	F1B		Ptr
VERON	7038,7	19.15	22	4	UKR	D	A1A		D-beacon
VERON	7038,7	19.38	15	4	UKR	D	A1A		D-beacon (also: 29/4 18.00 UTC)
VERON	7038,8	05.30	28	4	RUS	P	A1A		P-beacon
VERON	7038,8	10.05	3	4	RUS	P	A1A		P-beacon (also: 8/4 09.47 UTC)
VERON	7038,9	19.15	22	4	RUS	S	A1A		S-beacon
VERON	7038,9	18.15	3	4	RUS	S	A1A		S-beacon (also: 15/4 19.38 UTC)
VERON	7039,0	19.15	22	4	RUS	C	A1A		C-beacon
VERON	7039,2	19.20	22	4	RUS	F	A1A		F-beacon
VERON	7120,0	18.46	18	4	SOM	R.Har	A3E		music
VERON	7196,0	08.03	20	4	CIS	M1EP	A1A		proc.
VERON	7196,0	05.29	25	4	CIS	F8LQ	A1A		7EMI DE F8LQ proc
VERON	7196,0	05.16	26	4	CIS	F8LQ	A1A		VN3G DE F8LQ proc
VERON	7196,0	05.17	26	4	CIS	F8LQ	A1A		2NOG DE F8LQ proc
VERON	7196,00	05.20	26	4	CIS	Z73X	A1A		F8LQ DE Z73X proc
VERON	7196,0	05.21	26	4	CIS	DCLO	A1A		F8LQ DE DCLO proc
VERON	14001,0	18.33	4	4		OTHR	FMCW		radar 20 Khz
VERON	14008,0	10.36	22	4		UiPTR	F1B		Ptr
VERON	14141,0	10.40	28	4		UiPtr	F1B	500	Ptr
VERON	14141,0	10.43	20	4		UiPTR	F1B		Ptr (also: 28/4 11.36 UTC)
VERON	14151,5	09.45	8	4		UiPTR	F1B		Fast Revs
VERON	14160,0	09.15	9	4		UiPtr	F1B	250	Ptr
VERON	14192,0	10.00	3	4		UiPTR	F1B		Revs/Ptr (also 22/4 10.34 29/4 12.50 UTC)
VERON	14304,0	09.26	1	4		UiPtr	F1B	250	Ptr
VERON	14304,0	09.09	8	4		UiPtr	F1B	250	Ptr
VERON	14304,0	09.43	8	4		UiPTR	F1B		Ptr

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SHIFT	DETAILS
VERON	18069,0	13.27	8	4		OTHR	FMCW		radar 20 Khz
VERON	18090,0	09.34	21	4		OTHR	FMCW		radar 20 KHZ
VERON	21001,0	10.02	3	4		UiPTR	F1B		Ptr
VERON	21001,5	09.37	1	4	RUS	UiPtr	F1B	150	Vocoder Yaktha
VERON	21001,5	13.50	6	4	RUS	UiPtr	F1B	150	Vocoder Yaktha, also 7/4
VERON	21005,0	15.21	19	4		OTHR	FMCW		radar 20 Khz, qrm during contest cqmm
VERON	21130,0	21.09	6	4	Maroc	UiLL	J3-e-U		Maroc fishery
VERON	21253,0	09.39	28	4		UiCAR	NON		carrier, S-8
VERON	21438,0	07.30	21	4	RUS	RCV	A1A		RIP90 DE RCV QTC 357 26 20 1349 357 =
VERON	21438,0	07.30	21	4	RUS	RCV	A1A		NAWIP (etc)
VERON	28020,00	09.00	20	4		OTHR	FMCW		radar 20 KHz
VERON	28135,0	09.14	2	4	RUS	Taxi	F3E		traffic male/female S9+20dB
VERON	28135,0	10.55	24	4	RUS	Taxi	F3E		traffic, female
VERON	28145,0	10.50	24	4	RUS	Taxi	F3E		traffic, female
VERON	28155,0	10.51	24	4	RUS	Taxi	F3E		traffic, female
VERON	28255,0	10.54	24	4	RUS	Taxi	F3E		traffic, female

The monitoring team of IARU Region 1

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Many thanks for your interest!

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