



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

May 2016

The 29 members of the IARUMS Region 1 Monitoring Team:



Acknowledgements

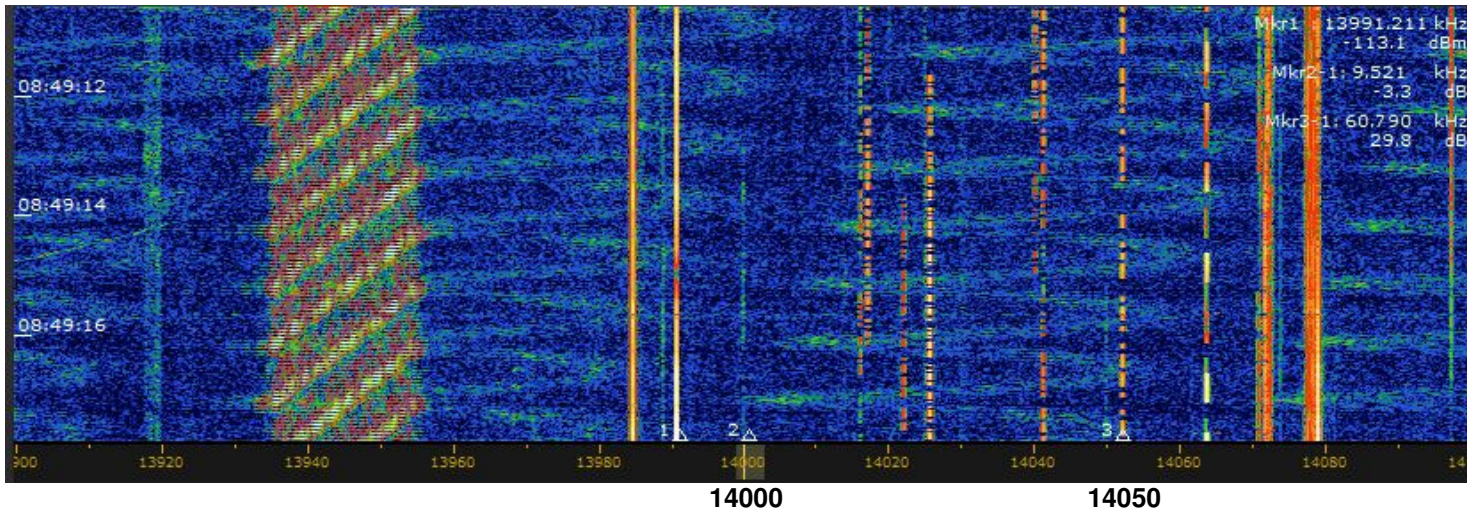
ARAT: 3V8CB – Ahmed ++ ARI: DH7SA – Salvatore ++ ARSK: 5Z4NU - Ted ++ ASTRA: DL1BDF – Mustapha ++ DARC: DK2OM – Wolf ++ ERASD: SU1SA – Sayed ++ HRS: 9A5DGZ – Gianluca ++ IARC: 4Z1AB – Aмос ++ IRTS: EI3GYB - Michael KARS: 9K2RR – Faisal ++ MARL: 9H1M – Dominic ++ MRASZ: HA7PL - Laci ++ NARS: 5N9AYM – Yusuf ++ NRRL: LA4EU – Hans Arne ++ OEVS: OE3GSA – Gerd ++ PZK: SP9BRP – Jan ++ RAL: OD5RI – Riri ++ REF: F5MIU – Francis ++ REP: CT4AN – Jose ++ ROARS: A41MA - Younis ++ RSGB: M0VRR - Vaughan ++ SARL: ZS6NS - James ++ SRAL: OH2BLU - Pekka ++ SSA – Ullmar ++ UBA: ON8IM – Ivan +++ URE: EB1TR - Fabian ++ USKA: HB9CET - Peter ++ VERON: PA2GRU - Dick ++ ZRS: S56ZDB – Darko ++ G3VZV – Graham (satellite) ++ TG9ADV – Jorge (Co-ordinator Region 2) ++ YB3PET – Titon (Co-ordinator Region 3) ++ DF8FE – (Webmaster assis.) ++ DL8AAM (ALE) ++ DJ7KG (BUOYS) ++ DF5SX (BC) ++ DARC (server support) ++ OD5TE (Hani) ++ VE6SH – Tim (IARU President) ++ 9K2RR – Faisal (EC-IARU-R1 ++ PTTs: BAKOM (Swiss), BNetzA Konstanz (Germany) ++ OFCOM (UK) ++ Dutch AT ++ YO9RIJ – Petrica

Part 1: News and Infos

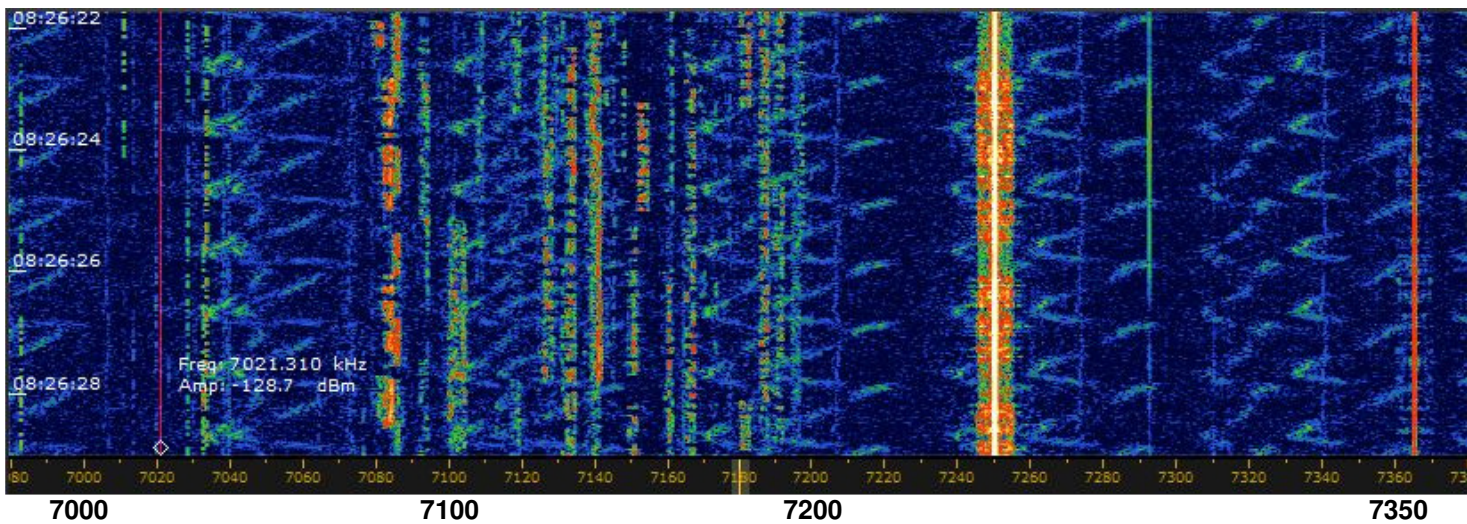
1. Local intrusions from the neighbourhood – no end ...

The German PTT has been informed. Screenshots: DK2OM with Perseus

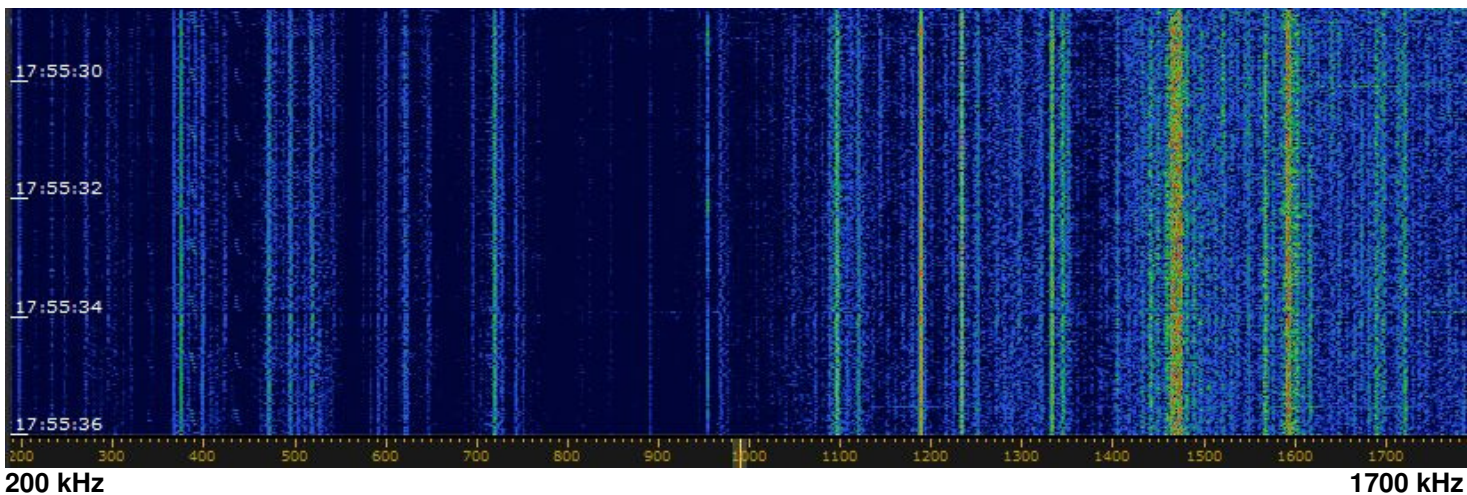
LED-lamp disturbing the 14 MHz-band. You can see the switch-on phase of the cold lamp. (frequency drift)



LED-lamp disturbing the 7000 – 7360 IHz.

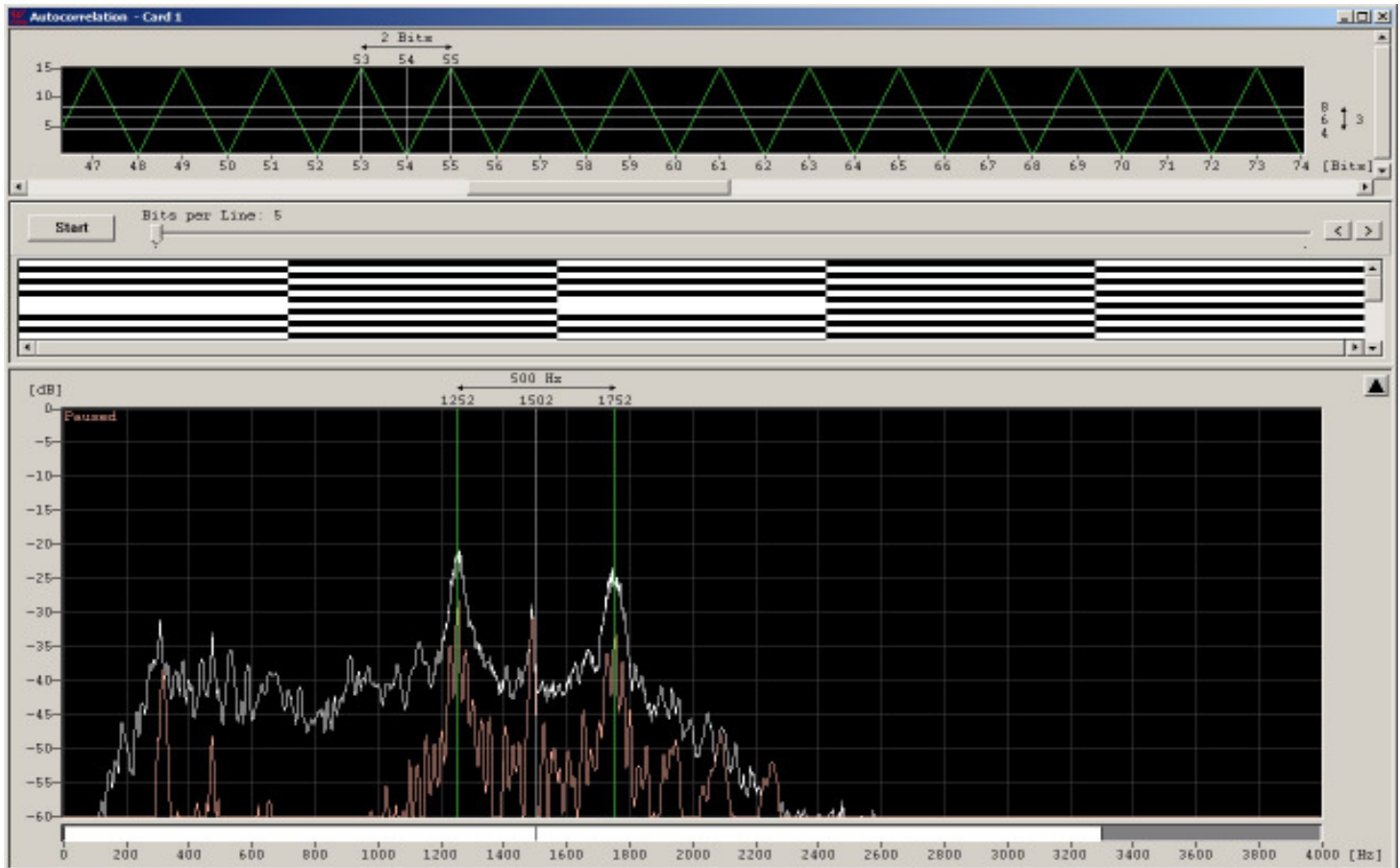


PLC signals on 200 – 2000 kHz are disturbing the BC reception and the 1.8 MHz. The real disturbing spectrum is covering 200 kHz – 60 MHz.



2. Russian Navy on 14192 kHz on FSK

The Russian Navy is transmitting on 14192.0 on FSK (= F1B) since more than 10 years. Parameters. 50 and 75 Bd – 200 and 500 Hz shift, sometimes only idling. Screenshot: DK2OM with W-Code (Wavecom), showing the auto-correlation of the idling signal (ACF = 2)



3. 6998.5 Polish MIL – no change

Polish Military was still transmitting on 6998.5 kHz on MIL-188-141A (ALE), MIL-188-110A and USB voice traffic. The 7 MHz-band was affected up to 7001.5 kHz every morning at about 07 utc. The German PTT (BNetzA) sent an official complaint to the Polish PTT in February 2016.

4. "Sound of Hope" - BC from Taiwan and Chinese jammer on 18080 kHz still active

Sound of Hope was audible with BC transmissions on 18080 kHz together with the Chinese mainland jammer every morning at about 6 utc and later under daylight conditions. The Chinese jammer was much stronger than SOH. The BC transmissions on this band are illegal. I informed the German PTT.

5. Hamradio 2016 – Invitation to all coordinators and friends!

IARUMS Region 1 and DARC Monitoring System Meeting and lecture at the HAM-RADIO 2016 in Friedrichshafen:

Saturday, June 25th 2016 from 10.00 – 11.30 local time - Room Swiss (180) – Hall A2

Agenda:

1. Welcoming speech – G3BJ – President IARU Region 1
2. Official opening by DK2OM and HB9CET
3. Main lecture "Monitoring and bearing today" by Dr. Ing. Christof Rohner (DL7TZ / 9V1CR) – Fa. Rohde&Schwarz

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://iaru-r3.org/iaru-region-3-monitoring-system-newsletter/>
- Intruderlogger Region 1 <http://peditio.net/intruder/bluechat.cgi>
- ITU-Monitoring Reports <http://www.itu.int/en/ITU-R/terrestrial/monitoring/Pages/Regular.aspx>

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 *** **PRF** = pulse repetition frequency (radar) = **sps** *** **sps** = sweeps/sec (radar systems) *** **FMCW** = frequency modulated continuous wave (OTH radars)
FMOP = frequency modulation on pulse (OTH radars) *** **5BL** = cyrillic 5 lettergroups

ARSK MONITORING OVERVIEW FOR May 2016

Radio Hargeisha remained on 7,120 kHz with broadcasts. As usual there were some local or Central African intruders observed on 7,000, 7,074 and 7,075 kHz.

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

ARSK – Kenya – 5Z4NU (Ted)

N.A.

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

DG0JBJ (Mario) observed **23** OTH radars on 40 m, **14** OTH radars on 20 m, **33** OTH radars on 17m, **28** OTH radars on 15 m and **16** OTH radars on 10 m in May 2016.

DARC 2 – Germany - DK2OM (Wolf)

FSK transmissions -> center frequency between mark and space

PSK transmissions -> center QRG - ALE (MIL188-141A) -> USB QRG

exclusive bands -> black – shared bands -> blue - voice traffic -> green - BC -> red
SH = shift - SP = spread (radar) – SPS = sweeps/sec (radar)-> (aka PRF)

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	1812,0	1924	26	05	RUS		USB LSB			14 tones – hyperbolic radio navigation system – BRAS-3/RS-10 – Kaliningrad – no carrier - daily, all day
DK2OM	1852,0	1953	31	05	I	IPP	USB			Palermo Radio, weather reports
DK2OM	1855,0	1953	31	05	I	IQP	USB			San Benedetto Radio, weather reports
DK2OM	1876,0	1954	31	05	I	IQN	USB			Lampedusa Radio, weather reports
DK2OM	1888,0	1954	31	05	I	IPD	USB			Civitavecchia Radio, weather reports
DK2OM	1896,5	ady	dly	05	D		PSK8	2400	2400	Stanag4285 – 600 bps long – German Navy – daily, all day
DK2OM	1925,0	1955	31	05	I	IPL	USB			Livorno Radio, weather reports
DK2OM	3500,0	---	--	05	F		FMCW		20k	French burst radar, 6 sps, similar Codar sounding, South France
DK2OM	3500,0	vt	dly	05	TUR		FSK8	125	1750	ALE, “2016” “4017” – Turkish Red Crescent – just for info!
DK2OM	3500,3	1949	25	05	CIS		A3E			CIS pirates – unstable carrier
DK2OM	3501,0	vt	dly	05	UKR		FSK8	125	1750	ALE, “H10” “B10” “I10” “D10” “G10”
DK2OM	3503,5	vt	dly	05	G	no ITU	FSK8	125	1750	ALE – “XSS” “XPU” “XJR” – British MIL Tascomm – vt, daily - legal!
DK2OM	3519,0	1930	03	05	CIS		A3E			CIS pirates – unstable carrier
DK2OM	3520,0	2021	05	05	KAZ		USB			2 women in Russian voice – Kazakhstan - often evenings
DK2OM	3525,0	1942	25	05	F		PSK4	75	5800	LINK11-CLEW on both sidebands (5800 Hz wide) – area of Marseille – legal!

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	3527,0	2016	04	05	RUS		F1B	50	200	Severomorsk
DK2OM	3531,0	1905	06	05	RUS	REA4	N0N			unclean carrier - RUS airforce Moscow, ident: 1940 utc - daily
DK2OM	3532,0	---	--	05	F		PSK4	75	5800	LINK11-CLEW on both sidebands (5800 Hz wide) – area of Brest – legal!
DK2OM	3535,0	2030	02	05	F		USB			French fishery
DK2OM	3544,8	2024	15	05	TUR		PSK8	2400	2400	Stanag-4285 – 600 bps long - Ankara
DK2OM	3550,0	0530	dly	05	F		A3E			French amateurs not respecting bandplans - daily
DK2OM	3550,0	vt	vd	05	ALG	no ITU	FSK8	125	1750	ALE, “IU50” “IU52” “FN50”
DK2OM	3550,0	1950	02	05	E		USB			Spanish fishery
DK2OM	3553,8	1928	04	05	TUR		PSK8	2400	2400	Stanag4285 – 600 bps long - TUR MIL - Ankara – daily, all day - legal operation
DK2OM	3558,0	1553	04	05	CHN		FSK8	125	1750	ALE, “288”
DK2OM	3560,0	2040	01	05	E		USB			Spanish fishery
DK2OM	3576,6	ady	dly	05	I	IZ3DVW	A1A			3576.550 - uncoordinated beacon – disturbing JT65
DK2OM	3585,0	1722	04	05	TWN	HLL	F1C		800	WX-fax Taiwan - 120 rpm, IOC 576, - daily, all day - legal!
DK2OM	3585,4	0940	12	05	HOL		PSK8	2400	2400	Stanag-4285 – 600 bps long
DK2OM	3586,0	vt	dly	05	G		PSK2A	40	40	encrypted – every evening Great Britain – purpose unknown
DK2OM	3587,0	vt	vd	05	E	no ITU	FSK8	125	1750	ALE, “TVV” “TXX” - Spanish Guardia Civil
DK2OM	3588,0	1906	06	05	RUS		PSK4B	120	2600	AT3104D - Smolensk
DK2OM	3590,0	vt	dly	05	PAK	no ITU	FSK8	125	1750	ALE, “KW” “KHAIBAR” – Pakistan navy
DK2OM	3590,0	2019	12	05			USB			Portuguese intruders
DK2OM	3592,0	2012	12	05	RUS		PSK2	120	2600	AT3004D – modem idle - Kaliningrad
DK2OM	3593,7	---	--	05	RUS	D	A1A			Cluster beacon – Sevastopol RUS Navy – “RCV”
DK2OM	3593,8	---	--	05	RUS	P	A1A			Cluster beacon – Kaliningrad RUS Navy – “RMP”
DK2OM	3593,9	---	--	05	RUS	S	A1A			Cluster beacon – Severomorsk RUS Navy – „RIT“
DK2OM	3594,0	---	--	05	RUS	C	A1A			Cluster beacon C - Moscow RUS Navy - “RIW”
DK2OM	3595,0	---	--	05	RUS	K	A1A			Cluster beacon - Petropavlovsk Kamchatskiy - RUS Navy - Pacific fleet - “RCC”
DK2OM	3596,0	vt	dly	05	D		FSK8	125	1750	ALE, “DK0ESD” – just for info!
DK2OM	3617,0	vt	dly	05	HRV	9A5EX	FSK8	125	1750	ALE, “9A5EX” – HAM-ALE - just for info
DK2OM	3619,5	2007	26	05	RUS		F1B	50	500	idling - Kaliningrad
DK2OM	3622,5	1722	04	05	J	JMH	F1C		800	Tokyo Meteo – 120 rpm – IOC 576 – daily, all day - legal!!!
DK2OM	3625,0	1707	04	05	CHN		FSK8	125	1750	ALE, “320”
DK2OM	3628,0	1743	28	05	CHN		FSK8	125	1750	ALE, “302” “391”
DK2OM	3640,0	vt	dly	05	G		FSK8	125	1750	ALE, “XSS” - British MIL Tascomm – just for info!
DK2OM	3642,0	ady	dly	05	CHN		A1A			loop – DKG6 de 3A7D Chinese military – daily, all day
DK2OM	3648,0	---	--	05	ARS		FSK8 LSB	125	1750	ALE, “AAI” “AAN”
DK2OM	3649,0	vt	vd	05	ALG	no ITU	FSK8	125	1750	ALE, “BI20” PA20”
DK2OM	3658,0	---	--	05	UZB		A1A			beacon “V” - Tashkent
DK2OM	3694,5	1720	15	05	FEa		A1A			”N3A UA6N33 D7366” loop
DK2OM	3718,0	vt	vd	05	FEA	7CJK	A1A			loop “7CJK”
DK2OM	3720,0	vt	dly	05	S		FSK8	125	1750	ALE, “YU” “YT” “YV” “DZ” – Swedish MIL

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	3741,0	1442	28	05	CHN		FSK8	125	1750	ALE, 166"
DK2OM	3751,0	ady	dly	05	FEa		A1A			"99 ?? 2T48 ??" - loop
DK2OM	3751,5	vt	dly	05	POL	no ITU	FSK8	125	1750	ALE, "IZ3" "MI3"
DK2OM	3756,0	2018	12	05	RUS		A3E			RUS MIL – channel marker – Tuapse – East Black Sea – night QRG – daily – even audible in Japan
DK2OM	3757,0	ady	dly	05	FEa	RIS9	A1A			"M8JF de RIS9" - loop
DK2OM	3761,5	vt	vd	05	POL	no ITU	FSK8	125	1750	ALE, "NI9" "PL7" "AB2" – Polish MIL
DK2OM	3772,0	ady	dly	05	FEa	A4JC	A1A			"A4JC" - loop
DK2OM	3777,0	ady	dly	05	FEa		A1A			"M8JF de RIS9" – loop – dly
DK2OM	3791,0	vt	vd	05	D	DK0ESD	FSK8	125	1750	ALE, "DK0ESD" – daily just for info!
DK2OM	3797,0	ady	dly	05	FEa		A1A			"M8JF de RIS9" – loop
DK2OM	6998,5	vt	dly	05	POL		FSK8 PSK8 USB	125 2400	1750 2400	ALE, "ZE2" "OL1" "GO7" "BU2" "MA3" "SZ4" and MIL-188-110A – until 7001.500 kHz – Polish MIL
DK2OM	7000,0	vt	dly	05	INS		USB LSB			Indonesian pirates – daily – all day - audible in Europe in the evenings
DK2OM	7000,0	ady	dly	05	RUS		H3E		3.4 k	buzzer – 1 sec bursts - 118 Hz AF rough sinus – carrier on 6998.0 + upper sideband - with splatters 10 kHz wide – daily, all day - Moscow
DK2OM	7000,0	vt	dly	05	?	no ITU	FSK8	125	1750	ALE, "210" "20989" "2205" "203"
DK2OM	7000,0	vt	dly	05	CHN		FSK8	125	1750	ALE, "157" "162"
DK2OM	7000,0	0640	16	05	E		USB			Spanish fishery
DK2OM	7001,5	0700	vd	05	POL		PSK8	2400	2400	RF QRG 6998.5 kHz – 7000.3 kHz center - MIL-188-110A – 600 / 300 bps short – Polish MIL
DK2OM	7004,8	1740	17	05			LSB			pirates in Portuguese voice
DK2OM	7005,0	vt	dly	05	INS		USB LSB			Indonesian pirates
DK2OM	7010,0	vt	dly	05	INS		USB LSB			Indonesian and Philippine pirates
DK2OM	7010,0	0932	12	05			PSK2A	120	2600	AT3004D -
DK2OM	7015,0	vt	dly	05	INS		USB LSB			Indonesian pirates
DK2OM	7016,0	1520	03	05	RUS		F1B	75	250	Kazan – also 15.05.2016 at 0739 utc
DK2OM	7018,0	---	--	05	RUS	REA4	F1B	100	800	mostly idling – Russian airforce Moscow – ident at full hour + 41 min. on F1A
DK2OM	7020,0	vt	dly	05	INS		USB LSB			Indonesian pirates
DK2OM	7020,0	---	--	05	ALB		FSK8	125	1750	ALE, "CS004A" "RS008D" "RS0" – Albanian coast - daily
DK2OM	7020,0	1628	13	05	RUS		F1B	75	250	Nishny Novgorod
DK2OM	7025,0	vt	dly	05	INS		USB LSB			Indonesian pirates
DK2OM	7027,5	ady	dly	05	KAZ	„V“	A1A			beacon "V" - Almaty
DK2OM	7030,0	vt	dly	05	INS		LSB			Indonesian pirates
DK2OM	7030,0	0935	05	05	RUS		FMCW		13k	OTH radar Contayner - 50 sps Gorodezh
DK2OM	7030,0	1240	06	05	RUS		FMCW		13k	OTH radar Contayner - 50 sps Gorodezh
DK2OM	7035,0	vt	dly	05	INS		USB LSB			Indonesian pirates
DK2OM	7036,0	1759	20	05	RUS		PSK2	120	2600	AT3004D – modem idle - Novosibirsk
DK2OM	7038,0	1604	23	05	CHN		FSK8	125	1750	ALE, "651"
DK2OM	7039,0	---	--	05	RUS	C	A1A			Cluster beacon C - Moscow RUS Navy - "RIW"

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	7039,1	---	--	05		A	A1A			beacon "A" - loop
DK2OM	7039,3	---	--	05	RUS	K	A1A			Cluster beacon - Petropavlovsk Kamchatskiy - RUS Navy - Pacific fleet - "RCC" - daily
DK2OM	7039,4	ady	dly	05	RUS	M	A1A			Cluster beacon – Magadan RUS Navy – „RTS“ – distorted with spurious emissions
DK2OM	7040,0	vt	dly	05	INS		USB LSB			Indonesian pirates
DK2OM	7040,0	vt	dly	05	F	F6BAZ	FSK8	125	1750	ALE, "F6BAZ" – just for info
DK2OM	7040,0	ady	dly	05	I		A1A			IZ3DVW – uncoordinated and unwanted beacon
DK2OM	7040,5	vt	dly	05	HRV		FSK8	125	1750	ALE, "9A5EX" "9A0ALE" – just for info
DK2OM	7042,0	1519	17	05	FEa		FMCW		32k	Codar like ocean surface radar 2.6 sps – 7042 – 7074 kHz
DK2OM	7047,37	vt	vd	05	D		FSK8	125	1750	ALE, "DL0NOT" – just for info!
DK2OM	7048,0	1822	08	05	FEa		FMCW		32k	Codar like ocean surface radar 2.6 sps – 7048 – 7080 kHz
DK2OM	7049,5	vt	vd	05	HRV G F	9A0ALE M1DFO F6BAZ	FSK8	125	1750	Amateur ALE, just for info! daily – various times
DK2OM	7055,5	vt	vd	05	MEa	no ITU	FSK8	125	1750	ALE, "111" "132" "133" - Kaukasus
DK2OM	7060,0	1856	05	05	FEa		FMCW		32k	Codar like ocean surface radar 2.6 sps – 7060 – 7092 kHz
DK2OM	7070,0	vt	vd	05	GEO	no ITU	FSK8	125	1750	ALE, "MV" "244" "686" "334" "204" "571" – daily active
DK2OM	7072,0	1711	15	05	FEa		FMCW		32k	Codar like ocean surface radar 2.6 sps – 7072 – 7104 kHz
DK2OM	7072,0	1618	21	05	RUS		PSK4B	120	2600	AT3104D - Kaliningrad
DK2OM	7076,0	1236	06	05	RUS		F1B	75	250	Moscow
DK2OM	7084,0	1430	25	05	FEa		FMCW		32k	Codar like ocean surface radar 2.6 sps – 7084 – 7116 kHz
DK2OM	7088,8	---	--	05	S	SL0FRO	A1A			7088.830 kHz - cw-trainee, Sweden - SL0FRO - just for info!
DK2OM	7089,8	---	--	05	TUR CYP		PSK8	2400	2400	Link11 - SLEW – aircraft – west of Cyprus
DK2OM	7091,5	---	--	05	KAZ	„V“	A1A			loop – ident "V" – Almaty - Kazakhstan
DK2OM	7092,0	vt	vd	05			FSK8	125	1750	ALE, "3014"
DK2OM	7099,0	1552	23	05	CHN		FSK8	125	1750	ALE, "126" "151" "161"
DK2OM	7099,5	vt	dly	05	HRV	9A0ZG	FSK8	125	1750	ALE, "9A0ZG" "9A5EX1P" "9A0OS" – daily - just for info!
DK2OM	7102,0	vt	dly	05	TWN		FSK8	125	1750	ALE, "BV4AS" – just for info!
DK2OM	7102,0	0746	16	05	HRV SUI D	9A0MIL	FSK8	125	1750	ALE, "9A0MIL" "9A2KS" "HB9MHB" "9A0ZG" "9A4OS" "DK0ESD" – just for info!
DK2OM	7110,0	vt	dly	05	HRV	9A0ALE	FSK8	125	1750	ALE, "9A0ALE" – just for info
DK2OM	7120,0	vt	dly	05	SOM		A3E		9k	Radio Hargaysa – Somalia – daily – even audible in Australia and Japan
DK2OM	7122,0	---	--	05	FEa	V	A1A			loop "V"
DK2OM	7134,0	2033	08	05	CHN		FSK8	125	1750	ALE, "101" "109"
DK2OM	7137,0	vt	dly	05	TWN		FSK8 LSB	125	1750	ALE, "CBIUN" "CBWPC" "CQYTX" "CAPLJ" "CTFOJ" "CEGTO" "CSNYI" "CEIPN" "CRXWT" - Taiwanese navy – daily
DK2OM	7140,0	vt	vd	05	FEa		FSK8	125	1750	ALE. "1111"
DK2OM	7144,0	0840	05	05	RUS		PSK2A	120	2600	AT3004D - Samara
DK2OM	7148,0	1910	18	05	RUS		PSK2A	120	2600	AT3004D - Severomorsk
DK2OM	7150,0	1609	09	05	FEa		FMCW		32k	Codar like ocean surface radar

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										2.6 sps – 7150 – 7182 kHz
DK2OM	7151,0	1956	18	05	RUS		PSK2A	120	2600	AT3004D – Russian ship - Bosphorus
DK2OM	7156,0	2024	14	05	FEa		FMCW		32k	Codar like ocean surface radar 2.6 sps – 7156 – 7188 kHz
DK2OM	7162,0	1848	03	05	FEa		FMCW		32k	Codar like ocean surface radar 2.6 sps – 7162 – 7194 kHz
DK2OM	7162,0	1741	25	05	RUS		F1B	75	250	Moscow
DK2OM	7163,0	---	--	05	UKR		A3E			encrypted MSGs - SZRU in Rivne
DK2OM	7170,0	vt	vd	05	CHN	no ITU	FSK8	125	1750	ALE, “103” “103”
DK2OM	7176,0	0626	06	05	RUS		F1B	75	250	Uralsk – also 25.05.2016 at 1743 utc – disturbed by German fellow – location: Waren (Müritz)
DK2OM	7179,2	0725	28	05			PSK8	2400	2400	Stanag-4285 -
DK2OM	7183,0	vt	dly	05	SUI		FSK8	125	1750	ALE, “HB9MHB” – just for info!
DK2OM	7185,5	0747	16	05	D HRV		FSK8	125	1750	ALE, “9A5EX” “DK0ESD” just for info - daily
DK2OM	7186,0	1954	18	05	RUS		PSK2A	120	2600	AT3004D – ship, area of Severomorsk – also 19.05.2016 at 1700 utc
DK2OM	7197,0	vt	dly	05	TUR	no ITU	FSK8	125	1750	ALE, “206102” “318013” “365013” – Turkish organisations and Turkish Civil Defense - source: DL8AAM – daily, various times
DK2OM	7200,0	1420	12	05	MMR		A3E			Myanmar Radio – 0930 – 1500 utc
DK2OM	7200,0	---	--	05	TWN		A3E			Radio Taiwan Int. – 1000 – 1300 utc
DK2OM	7205,0	1920	08	05	IRN		A3E		20k	Voice of Iran with splatters down to 7195 kHz – 1920 – 1950 utc daily
DK2OM	10100,8	ady	dly	05	D		F1B	50	450	Baudot - German Weatherservice – legal!
DK2OM	10108,0	0843	16	05	RUS		F1B	50	200	Moscow
DK2OM	10110,0	vt	dly	05	SNG	no ITU	FSK8	125	1750	ALE, “CN6” “68” – Singapore Navy - Changi Naval Base
DK2OM	10113,0	vt	vd	05	TUN	no ITU	FSK8	125	1750	ALE, “TUD” “STAT5” “STAT154”
DK2OM	10114,0	vt	dly	05	ALG	no ITU	FSK8	125	1750	ALE, “BSF” “ZEN” “CM2OR2”
DK2OM	10114,8	0730	11	05	RUS		F1B	100	1000	CIS14 – Moscow - daily
DK2OM	10115,0	vt	dly	05	MRC	no ITU	FSK8	125	1750	ALE, “100” “114” “201” “XXZ” – Western Sahara
DK2OM	10116,5	---	--	05	AFS		F7D	54.3	2120	MHF50 – 33 tones - South African navy
DK2OM	10120,0	vt	dly	05	ALG	no ITU	FSK8	125	1750	ALE, “CM6” “01012016”
DK2OM	10120,0	1632	16	05	IRN		A3E/BC		9k	Voice of Iran - intermod. from 9580 and 9850 kHz – location Zahedan
DK2OM	10120,0	1729	09	05	E		USB			Spanish fishery
DK2OM	10123,0	vt	dly	05	ALG	no ITU	FSK8	125	1750	ALE, “CM3” “COF” “BSF” “CM2” “ESA” – Algerian Airforce
DK2OM	10127,0	1854	13	05	AUS		FMCW		20k	OTH burst radar JORN – 23 sps 3 sec bursts - introtones
DK2OM	10129,0	vt	dly	05	ALG	no ITU	FSK8	125	1750	ALE, “CM1” “CTF” “772”
DK2OM	10130,0	vt	dly	05			FSK8	125	1750	ALE, “1144” “1608”
DK2OM	10134,0	1821	06	05	MRC		USB			Moroccan fishery
DK2OM	10136,0	vt	dly	05	ALG	no ITU	FSK8	125	1750	ALE, “CM3” “BLD” “CNC” “TF2”
DK2OM	10140,0	vt	dly	05	CHN	no ITU	FSK8	125	1750	ALE, “664” “205” “201” “LT”
DK2OM	10144,0	ady	dly	05	D	DK0WCY	A1A			10143.986 kHz - DK0WCY – German aurora beacon – just for info!

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	10145,5	vt	dly	05	SUI	HB9MHB	FSK8	125	1750	ALE, "HBMHB" - just for info - daily
DK2OM	10145,5	vt	dly	05	TWN AUS	BV4AS	FSK8	125	1750	ALE, "BV4AS" "VK4SAA" - just for info!
DK2OM	10146,0	0749	16	05	RUS		PSK2A	120	2600	AT3004D - submode idle and traffic - Moscow
DK2OM	14000,0	1310	11	05	FEa		USB			pirates from Java Sea - daily
DK2OM	14000,0	1920	18	05	E		USB			Spanish fishery
DK2OM	14000,0	1334	11	05	RUS		FMCW		10k	OTH burst radar Contayner - 10 sps - Gorodezh
DK2OM	14000,0	2042	10	05	E		USB			South Spain
DK2OM	14000,0	1848	18	05	E		USB			Spanish pirates - Murcia
DK2OM	14000,0	0615	23	05	RUS		FMCW		13k	OTH radar Contayner - 50 sps Gorodezh
DK2OM	14001,5	1624	17	05	ISR		PSK4 PSK8	75 2400	2600 2600	hybrid modem - ISR Navy Haifa - PSK4 parallel and PSK8 serial
DK2OM	14003,0	1320	20	05			FMCW		68k	OTH radar - 50 sps - 13935 - 14003 kHz - long lasting
DK2OM	14008,0	1329	12	05	RUS		F1B	50	250	Moscow
DK2OM	14015,0	0437	22	05	CHN		FSK8 OFDM	125	1750	ALE, "914" and OFDM-39 - West China
DK2OM	14026,0	1210	12	05	RUS		PSK2A	120	2600	AT3004D - Moscow - also 16.05.2016 at 0832 utc
DK2OM	14058,5	0846	05	05	CBG		F1B	600	600	DPRK-FSK 600 - Phnom Penh
DK2OM	14100,0	vt	dly	05	ALG	no ITU	FSK8	125	1750	ALE, "6206" - "6204" - "6202" "6207" "6217" "MTL" "IJ" - Mauritanian border - daily, all day
DK2OM	14108,0	0759	08	05	RUS		A1A			CW encrypted - RUS MIL Moscow - also on 12.05.2016 at 0926 utc
DK2OM	14109,0	vt	dly	04	S	HAM	FSK8	125	1750	ALE, "SM3FXL" - just for info!
DK2OM	14109,0	vt	dly	05	RUS	RV3APM	FSK8	120	1750	ALE, "RV3APM" - just for info!
DK2OM	14114,0	0950	18	05	RUS		FMCW		13k	OTH radar Contayner - 50 sps Gorodezh - S9 +40 dB - long lasting
DK2OM	14114,0	0652	18	05	RUS		FMCW		13k	OTH radar Contayner - 50 sps Gorodezh - S9 +40 dB - long lasting
DK2OM	14125,0	0707	11	05	RUS		FMCW		10k	OTH radar Contayner - 50 sps - Gorodezh - splattering +/- 200 kHz
DK2OM	14160,0	vt	dly	05	MRC		FSK8	125	1750	ALE, "9204" "9228" "9236"
DK2OM	14160,0	1322	04	05	RUS		F1B	75	250	Moscow - also 05.05.2016 at 1730
DK2OM	14170,0	1019	20	05	RUS		FMCW		10k	OTH burst radar Contayner - 10 sps - Gorodezh
DK2OM	14192,0	0727	03	05	RUS		F1B	50 75 50	500 500 200	RUS navy Kaliningrad - daily
DK2OM	14205,0	vt	dly	05	CHN	no ITU	FSK8	125	1750	ALE, "505" "822"
DK2OM	14221,0	0540	14	05	KGZ		F1B	50	200	CIS-50-50 - Bishkek - daily
DK2OM	14223,5	---	--	05	RUS		F1B	600	600	DPRK-FSK 600 - DPRK emba Moscow
DK2OM	14239,0	---	--	05	CHN		PSK4	60	2350	PRC 30 tone modem - LSB mode - LSB QRG - pilot tone 450 Hz
DK2OM	14240,0	0724	14	05	RUS		F1B	50	250	Moscow
DK2OM	14242,0	0800	05	05	RUS		PSK2A	120	2600	AT3004D - Moscow - also 26.05.2016 at 0748 utc
DK2OM	14247,0	0903	27	04	CHN		FMCW		10k	Chinese OTH burst radar 67 sps
DK2OM	14260,0	vt	dly	05	SRB	YU1BI	FSK8	125	1750	ALE, "YU1BI" - just for info!
DK2OM	14265,0	vt	vd	05	TUR	no ITU	FSK8	125	1750	ALE, "526"
DK2OM	14272,0	---	--	05	RUS	RCV	A1A			RUS Navy Sevastopol
DK2OM	14274,0	1548	19	05	RUS		PSK2A	120	2600	AT3004D - Sevastopol

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	14292,0	0839	06	05	RUS		A1A			idents: KONL – QPRR – QPRJ – QPNR - Moscow
DK2OM	14295,0	vt	dly	05	SRB	YU1BI	FSK8	125	1750	ALE, “YU1BI” – just for info!
DK2OM	14295,0	1539	01	05	TJK		A3E		9k	3rd from Radio Tajik on 4765 kHz – daily, all day
DK2OM	14296,0	0802	16	05	RUS		FMCW		13k	OTH radar Contayner - 50 sps - Gorodezh
DK2OM	14300,0	0900	24	05	RUS		FMCW		13k	OTH radar Contayner - 50 sps Gorodezh – splattering +/- 50 kHz
DK2OM	14301,8	1708	03	05	CHN		PSK2	75	2200	PRC 16 tone modem – USB mode – pilot tone 450 Hz - RF 14300.0 kHz - China – Shanghai – daily – all day
DK2OM	14330,0	vt	dly	05			FSK8	125	1750	ALE, “BV4”
DK2OM	14330,0	1658	03	05	CYP		FMCW		20k	splatter from OTH radar on 14370 kHz
DK2OM	14334,0	vt	vd	05	CHN	no ITU	FSK8	125	1750	ALE, “249” “255” “763”
DK2OM	14344,7	--	---	05	CHN		PSK8	2400	2400	modified MIL-188-110A - 600 bps short – 14344.650 kHz – daily, all day
DK2OM	14346,0	vt	dly	04	THA	HS0ZEA	A1A			HS0ZEA beacon – 14345.950 kHz - every 5 minutes – daily - just for info!
DK2OM	14346,0	2037	29	05	POR		FSK8	125	1750	ALE, “CT2IXQ” just for info – various times, daily
DK2OM	14350,0	0804	16	05	E		USB			Spanish fishery – woman and husband – well known from our 21420 MHz
DK2OM	14351,7	---	--	05	E		OFDM	30	2700	OFDM 73 + intro tone – experimental transmissions – Las Palmas – just for info!
DK2OM	18080,0	0600	dly	05	TWN		A3E/BC			Sound of Hope – Taiwan and Chinese BC jammer – daily at 06 utc and later
DK2OM	18100,0	19	05	05	MRC	no ITU	FSK8	125	1750	ALE, “A2” “A4” “A5” “A7” “S6” – “C3” “G401” “CD” “09” “G2” “LG6” “G301” “ELJADIDNET4” - daily, various times
DK2OM	18106,0	vt	vd	05	POR	CT2GOY	FSK8	125	1750	ALE, “CT2GOY” – just for info!
DK2OM	18107,0	vt	vd	05	RUS	RDL	F1B	50	200	CIS-50-200 - Moscow – idle and traffic – Russian navy – various days and times – shared band!
DK2OM	18117,5	vt	vd	05	POR	CT2IXQ	FSK8	125	1750	ALE, “CT2IXQ” – just for info
DK2OM	18140,0	vt	dly	05	SRB	YU1BI	FSK8	125	2600	ALE, “YU1BI” – just for info!
DK2OM	21000,0	0928	17	05	FEa		USB			Far East pirates - daily
DK2OM	21000,0	1856	18	05	B		USB			Brazilian pirates – Rio de Janeiro with North Brazil – very often
DK2OM	21000,0	1643	20	05	SDN		USB			MFA Sudan – Khartoum with emba Yemen – voice traffic
DK2OM	21000,0	1210	05	05	IRN?		FMCW		20k	OTH radar – 25 sps
DK2OM	21002,0	1829	02	05	MRC		USB			Moroccan fishery - daily
DK2OM	21002,0	2120	27	05	MRC		USB			Moroccan fishery
DK2OM	21002,2	1633	20	05	SDN	!0000 !9999 !8888	F1B	100	170	21002.15 kHz - Pactor 1 encrypted – MFA Sudan – Khartoum with emba Yemen
DK2OM	21010,0	1625	16	05	TUR		FMCW		20k	OTH radar West-Turkey – 50 sps
DK2OM	21040,4	1628	20	05	MRC		USB			Moroccan fishery
DK2OM	21096,0	vt	dly	05	INS	YD00XH	FSK8	125	1750	ALE, “YD00XH3” – daily, various times - just for info!
DK2OM	21100,0	1339	01	05	CYP		FMCW		20k	OTH radar Cyprus – 50 sps
DK2OM	21125,0	1232	13	05	CYP		FMCW		20k	OTH radar – 50 sps - Cyprus
DK2OM	21131,0	vt	vd	05	CHN	no ITU	FSK8	125	1750	ALE, “A92” “L02” – Chinese

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										diplo
DK2OM	21141,0	---	--	05	GEO		PSK8A	2400	2400	Stanag4538 – GEO MIL with AFG - daily
DK2OM	21145,0	vt	dly	05	MRC	no ITU	FSK8	125	1750	ALE, “B301”, “C3”, “IR4” “T4” “E4” “A2” “CD” “K3” “KB2” “J5” “GS4” “R3” – various times, daily
DK2OM	21145,8	ady	dly	05	I	IZ3DVW	A1A			IZ3DVW beacon – 21145,75 kHz - not coordinated with IARU
DK2OM	21154,9	0847	16	05	RUS		OFDM	35.55	2760	OFDM 60 - Omsk
DK2OM	21160,0	---	--	05	RUS		F1B	100	2000	4th from 5290 kHz (500 Hz shift) – St. Peterburg
DK2OM	21190,0	---	--	05	RUS		F1B	100	1000	harmonic from 10595 kHz - Moscow - daily
DK2OM	21270,0	0922	23	05	AUS		FMCW		10k	OTH burst radar – 50 sps – introtones – 3 sec bursts
DK2OM	21331,5	1519	07	05	EGY		F1B	600	600	DPRK-FSK 600 – North Korean emba Cairo
DK2OM	21338,0	0910	12	04	CHN		FMCW		10k	Chinese OTH burst radar 67 sps – 3.8 sec bursts
DK2OM	21340,0	0814	04	05	CHN		FMCW		10k	Chinese OTH burst radar 67 sps – 3.7 sec bursts
DK2OM	21340,0	1220	17	05	CYP		FMCW		20k	OTH radar Cyprus – 50 sps
DK2OM	21347,0	0822	05	05	CHN		FMCW		40k	OTH radar – 41.7 sps – 25 sec blocks – 21327 – 21367 kHz
DK2OM	21353,5	---	--	05	GAB		F1B	600 600	600 1200	DPRK-FSK 600 - Libreville DPRK-FSK 1200
DK2OM	21400,0	---	--	05	RUS		F1B	50	2000	harmonic from 5350 kHz – area of Moscow - daily
DK2OM	21409,5	---	--	05	RUS		F1B	100	2000	F1B 100 / 2000 - CIS14 – harmonic from 10704.75 - Jekaterinburg, RUS - daily
DK2OM	21436,0	---	--	05	RUS		PSK2A	120	5200	AT3004D – harmonic from 10718.0 kHz - Sevastopol
DK2OM	21438,0	0910	16	05	RUS	RCV	A1A			RIP90, RCV, RGX94 - RUS Navy Sevastopol - daily
DK2OM	21446,0	ady	dly	05	THA	HS0ZEA	A1A			HS0ZEA beacon – every 5 minutes - just for info!
DK2OM	25000,0	vt	vd	05	FIN		A3E			time signal Helsinki – just for info – carrier on 25000 – dots on 25001 and 24999 – daily, all day
DK2OM	28000,0	vt	vd	05	B		A3E			Brazilian CBers – 28000 – 28325 – daily, all day - no change
DK2OM	28000,0	vt	dly	05	CIS		F3E			28000 – 29700 numerous CIS taxi nets – no change
DK2OM	28000,0	1612	20	05	E		F3E			Spanish CBers
DK2OM	28010,0	---	--	05	POR		F1B	51	300	F1B bursts –west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28025,0	---	--	05	POR		F1B	51	300	F1B bursts – 28025.050 kHz - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28030,0	---	--	05	POR		F1B	51	340	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28045,0	---	--	05	POR		F1B	51	280	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28050,0	---	--	05	POR		F1B	51	300	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28050,0	1418	30	05	I		LSB			Italian pirates
DK2OM	28051,5	---	--	05	POR		F1B	51	300	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										buoys - daily
DK2OM	28060,0	---	--	05	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28065,1	0847	26	05	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28065,6	---	--	05	GAB		A3E		980	carrier and dots in USB and LSB, bursts every 60 sec – carrier – Gabon – daily and all day
DK2OM	28075,0	1545	22	05	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28085,0	---	--	05	POR		F1B	51	300	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28100,2	---	--	05	POR		F1B	51	300	F1B bursts - 28100.780 kHz - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28102,1	---	--	05	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28115,0	0802	22	05	RUS		F3E			RUS taxi - daily
DK2OM	28125,0	---	--	05	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28146,0	vt	vd	05	ARG B		FSK8	125	1750	ALE, “LU8EX” “PY2TI” “DL1” – just for info!
DK2OM	28165,0	0953	10	05	RUS		F3E			RUS taxi - daily
DK2OM	28175,0	1352	13	05	RUS		F3E			RUS taxi - daily
DK2OM	28200,0	---	--	05	POR		F1B	51	330	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28205,0	0932	17	05	E		A3E			Spanish CBers
DK2OM	28215,0	0840	26	05	RUS		F3E			RUS taxi
DK2OM	28224,4	---	--	05	GAB		A3E			carrier and dots +/- 770 Hz - bursts every 60 sec – Gabon – daily and all day
DK2OM	28235,0	0752	29	05	RUS		F3E			RUS taxi - daily
DK2OM	28249,6	---	--	05	GAB		A3E		1060	carrier and dots +/- 530 Hz - bursts every 60 sec – Gabon – daily and all day
DK2OM	28250,5	---	--	05	GAB		A3E		1060	carrier and dots +/- 530 Hz - bursts every 60 sec – Gabon – daily and all day
DK2OM	28275,0	0843	26	05	E		F3E			Spanish CBers
DK2OM	28275,0	0902	28	05	RUS		F3E			RUS taxi
DK2OM	28275,1	---	--	05	AF		F1B	51	300	F1B bursts -Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28312,5	vt	vd	05	POR	CT2IXQ	FSK8	125	1750	ALE. “CT2IXQ” – just for info
DK2OM	28315,0	---	--	05	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28335,0	1746	13	05	E		A3E F3E			Spanish CBers – roger beeps – also 30.05.2016 at 1650 utc
DK2OM	28345,1	---	--	05	GAB		A3E		1060	carrier and dots +/- 530 Hz - bursts every 60 sec – Gabon – daily and all day
DK2OM	28435,0	----	--	05	E		F1B	81.9	140	Datawell-buoy “Waverider” – 28435.040 kHz – Costa del Sol – Malaga
DK2OM	28459,8	----	--	05	GAB		A3E		1060	carrier and dots +/- 530 Hz - bursts every 60 sec – Gabon – daily and all day
DK2OM	28459,9	---	--	05	GAB		A3E		1060	carrier and dots +/- 530 Hz - bursts every 60 sec – Gabon –

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										daily and all day
DK2OM	28499,8	---	--	05	MEa		F1B	81.9	140	Datawell-buoy "Waverider" – 28499.875 kHz – Persian Gulf
DK2OM	28701,1	---	--	05	GAB		A3E		1056	carrier and dots +/- 528 Hz - bursts every 60 sec – Gabon – daily and all day
DK2OM	28751,2	---	--	05	GAB		A3E		1080	carrier and dots +/- 540 Hz - bursts every 60 sec – Gabon – daily and all day
DK2OM	28845,5	---	--	05	GAB		A3E		1060	carrier and dots +/- 530 Hz - bursts every 60 sec – Gabon – daily and all day
DK2OM	28870,0	1030	28	05	RUS		F3E			RUS taxi
DK2OM	28901,1	---	--	05	GAB		A3E		1056	carrier and dots +/- 528 Hz - bursts every 60 sec – Gabon – daily and all day
DK2OM	28955,0	1000	28	05	RUS		F3E			RUS taxi
DK2OM	28960,0	0850	14	05	IRN		FMCW		55k	OTH radar Iran – burst mode – 150 and 313 sps – also 27.05.2016 at 0908 utc
DK2OM	28960,0	0958	26	05	IRN		FMCW		55k	OTH radar Iran – 150 and 313 sps
DK2OM	29114,0	---	--	05	RUS		F1B	100	2000	harmonic from 14557.0 kHz - Moscow
DK2OM	29249,9	1521	06	05	E		F1B	81.9	140	Datawell-buoy "Waverider" – 29249.890 kHz – Fuerteventura - daily, all day
DK2OM	29375,0	---	--	05	I		F1B	81.9	140	Datawell-buoy "Waverider" – 29374.898 kHz – Gallipoli, South Italy - daily, all day
DK2OM	29387,5	---	--	05	IND		F1B	81.9	140	Datawell-buoy "Waverider" – 29387.460 kHz – Indian NW coast, close to Pakistan - daily, all day
DK2OM	29400,0	---	--	05	USA		F1B	81.9	140	Datawell-buoy "Waverider" – 29400.070 kHz - USA north-east coast – NY daily, all day
DK2OM	29450,0	1520	06	05	MRC		F1B	81.9	140	Datawell-buoy "Waverider" – 29449.860 kHz - area of El Aaiun – Morocco - daily, all day
DK2OM	29500,0	---	--	05	G		F1B	81.9	140	Datawell-buoy "Waverider" – area of Gibraltar – daily, all day
DK2OM	29525,0	---	--	05	MRC		F1B	81.9	140	Datawell-buoy "Waverider" – 29524.990 kHz - Agadir - Morocco – daily, all day
DK2OM	29625,0	---	--	05	USA		F1B	81.9	140	Datawell-buoy "Waverider" – 29625.024 kHz - USA north-east coast – daily, all day

IRTS – Ireland – EI3GYB (Michael)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	DETAILS
IRTS	1960	2056	04	05			AM	Pop music, no announcements.
IRTS	3535	1745	19	05	E or MM		USB	Spanish fishermen, 2 male voices, bad audio.
IRTS	3535	2135 to 2145	24	05	E or MM		USB	2 male Spanish fishermen
IRTS	3540	2125 to 2135	24	05	IRL		USB	2 male Irish fishermen. Motor noise and VHF coastal station traffic in the background. The two ships were around Clogherhead.
IRTS	3560	0645	08	05	E or MM		USB	2 male Spanish fishermen, with typical motor noise in the background.
IRTS	3560	1530	09	05	POR		USB	Portuguese fishermen, 2 male voices

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	DETAILS	
					or MM				
IRTS	3560	1800	19	05	POR or MM		USB	Portuguese fishermen, 2 male voices. Loud motor noise. Strong signals.	
IRTS	3570	1525 to 1535	10	05	IRL		USB	2 male Irish fishermen, Galway accent, very strong signals. One of them is called Ger.	
IRTS	3590	2135	25	05	E or MM		USB	Spanish fishermen, 2 male voices. Very strong (59plus 60dB), loud motor noise.	
IRTS	3634	0920 to 1025	20	05	E or MM		USB	2 male Spanish fishermen. Motor noise. One station very strong, the other barely audible.	
IRTS	3738,25	1200	13	05	F or MM		USB	French fishermen, 2 male voices, loud motor noise	
IRTS	5403,5	2300	07	05			USB	Loud singing, male voice, US accent. "Old McDonald". Went on for about 30 minutes.	
IRTS	7000	1615	20	05	RUS		AM	Buzzer. Signal 55. On 4625 kHz only 52.	
IRTS	9775	1405 to 1515	11	05	E or MM		USB	Spanish fishermen, 3 male voices. Endless chat in the 30 Meter BC band ! Not an amateur band-just for info.	
IRTS	14103	1120	11	05				Radar from 14103 to 14125 kHz.	
IRTS	14108	0620	11	05				Radar 14108 to 14138 kHz, very strong	
IRTS	14162	1600	29	05				Radar from 14162 to 14328 kHz.	
IRTS	14192	1000	30	05	RUS		F1B	RUS Navy Kaliningrad	
IRTS	14220	1250	15	05				Radar from 14220 to 14240 kHz. Very strong. Band not usable.	
IRTS	14280	1145	13	05				Radar from 14280 to 14306 kHz.	
IRTS	14295,174	1945	03	05	TJK		AM	3 rd harmonic from Radio Tajikistan. Music programme	
IRTS	18147	1520	16	05			Digi	Huge digital signal , most likely DR Korea embassy traffic from W.Africa .	
IRTS	18148	0840- 0905	06	05			Digi	Loud pulsing digital signals	
IRTS	18148	0840	08	05				Radar, very strong. 18148 to 18168 kHz and beyond	
IRTS	21328,5	1515	07	05			Digi	Probably DR Korea embassy traffic in W. Africa	
IRTS	24987	1255	02	05				Strong radar signals from 24987 to 25010 kHz.	
IRTS	28500	1615	01	05	BRA		USB	Brazilian CBers, several male voices, roger beeps	

KARS – Kuwait – 9K2RR (Faisal)

MRASZ – Hungary - HA7PL (Laci)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	DETAILS
MRASZ	3511,0	1815	9	5			USB		ui. male
MRASZ	3549,2	1908	20	5			A1A		5 letters, with Cyrillic characters, with chirp
MRASZ	3572,0	1732	20	5			F1B	250	
MRASZ	3574,0	1859	22	5			PSK2		AT3004D
MRASZ	3579,5	1731	20	5			A1A		"SV2HQL/B" beacon
MRASZ	3599,0	1931	11	5			A1A		5 letters, with Cyrillic characters
MRASZ	3599,0	2009	20	5			A1A		5 l, with Cyrillic characters, keying problems
MRASZ	3601,0	1940	24	5			PSK2		AT3004D
MRASZ	3627,8	1820	20	5			A1A		dashes, deliberate dirturbance
MRASZ	3648,6	1902	20	5			USB		ui. male
MRASZ	3696,0	1819	20	5			F1B	250	
MRASZ	7000,0	1649	11	5			H3E		buzzer, hrd on:17, 20, 24, 26, 30
MRASZ	7006,0	0715	16	5			OTHR		
MRASZ	7008,0	1903	22	5			F1B	250	hrd: 24
MRASZ	7016,0	0752	15	5			F1B	250	
MRASZ	7020,0	1656	9	5			F1B	250	hrd: 14,17,
MRASZ	7027,5	1854	17	5			A1A		slow "V" string, hrd: 20, 24, 26
MRASZ	7050,0	1922	3	5			LSB		russian chaos, hrd: 17, 18, 19, 22, 23,

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	DETAILS
									24
MRASZ	7051,4	1658	20	5			LSB		italian hams
MRASZ	7055,0	0718	16	5			LSB		russian chaos, music hrd: 17,
MRASZ	7120,0	1857	17	5	SOM		A3E		Radio Harg. hrd: 18, 20, 30
MRASZ	7122,0	1653	9	5			F1B	250	
MRASZ	7151,0	1719	18	5			PSK2		AT3004D, hrd: 19, at 0700 UT
MRASZ	7174,0	1858	17	5			F1B	750	
MRASZ	7186,0	0700	19	5			PSK2		AT3004D, hrd: 20,22, 24
MRASZ	10108,0	0728	19	5			F1B	200	
MRASZ	10114,7	0706	19	5			F1B	1000	
MRASZ	10118,0	1840	14	5			F1B	250	hrd: 15, 16
MRASZ	10120,0	1650	9	5			A3E		ui. BC, hrd: 11, 20
MRASZ	10135,0	1841	14	5			OTHR		10120-10150 kHz, about 50 Hz
MRASZ	10150,0	0911	22	5			A1A		dotter
MRASZ	14006,8	1837	14	5			A1A		dashes
MRASZ	14026,0	0755	15	5			PSK2		AT3004D
MRASZ	14108,0	0913	22	5			A1A		5 letters, with Cyrillic characters
MRASZ	14192,0	0756	15	5			F1B	200	hrd: 16
MRASZ	14249,9	0917	19	5			N0N		long lasting carrier
MRASZ	14274,0	0915	22	5			PSK2		AT3004D
MRASZ	14295,0	1646	20	5	TJK		A3E		Radio Tajik, 3rd. harmonic
MRASZ	18094,0	1915	24	5			OTHR		18068-18120 kHz

OEVSV – Austria – OE3GSA (Gerd)

PZK – Poland – SP9BRP (Jan)

REF 1 – France – F5MIU (Francis) F5JBR (Andre)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REF	3524,0	0236	15	05	RUS	Russian Military	F1B	75	250	Encrypted messages – Frequency enabled for traffic in QYT9 Mode
REF	3525,0	1804	02	05	RUS	Q2MS	CW			Q2MS worked 7 outstations in Duplex (For information : The QSX in on 3194 kHz)
REF	3548,0	1806	01	05	RUS	Russian Air Defense Army PVO	LSB			Tracking (Russian Voice)
REF	3548,0	1728	04	05	RUS	Russian Navy	F1B	50	200	Encrypted messages – traffic to nuclear forces
REF	3548,0	1732	06	05	RUS	Russian Military	CIS-12/AT3004D/USB	120 per channel	2700	Encrypted messages – Traffic in QYT4 Mode
REF	3572,0	1853	01	05	RUS	Russian Air Defense	CW			9931996585354 9730996582954 98349930765454 9733993374754 9732999318154
REF	3578,0	0414	19	05	RUS	Russian Navy	F1B	75	200	Encrypted messages – traffic in QYT9 Mode
REF	3580,0	1711	02	05	RUS	IZ1J	CW			IZ1J working 6 outstations in Simplex
REF	3594,0	0600	14	05	RUS	RAY95	CW			RAY95 working with RMP in Duplex (comms checks and messages)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REF	3608,0	0252	31	05	RUS	Russian Navy	F1B	50	200	Encrypted messages – traffic to nuclear forces
REF	3696,0	1706	04	05	RUS	QREK	CW			QREK Wkg R176 (only calling)
REF	3700	1802	28	05	RUS	1TSN	CW			1TSN working 7 outstations in Duplex : only comms checks
REF	3703,0	1644	09	05	RUS	WHET	CW			WHET Wkg 6 outstations (comms checks and QTCs) in Duplex
REF	3703,0	0607	14	05	RUS	MHXR	CW			MHXR Working 11 outstations (comms checks, messages and Z codes for traffic in numeric mode) in Duplex – For information samme transmission for net station on 4213.5 kHz and the frequency for outstations is 4638 kHz
REF	3708,0	0418	19	05	RUS	Russian Military	CIS-12/AT3 004D/USB	120 per channel	2700	Encrypted messages – Traffic in QYT4 Mode
REF	3709	1801	28	05	RUS	ChNRO	CW			ChNRO working 5 outstations in Simplex : This network also uses the Cyrillic letters (Â Ô Û É Ch) in callsigns
REF	3709,0	1751	30	05	RUS	8GWU	CW			8GWU working 5 outstations in Simplex and Callign 3 outstations in Broacast (For Broadcast outstations use QLW QSA ? QRK ? QXS AR) – Trhe network use daily callsigns
REF	3714,0	1726	24	05	RUS	RMP	CW			RMP send QTCs (SML) for REO and outtations
REF	3714,0	1744	30	05	RUS	RMP	CW			RMP send QTCs (SML) for REO and outtations
REF	3733,5	1700	10	05	RUS		CW			
REF	3738,0	1644	18	05	RUS	Russian Military	F1B	75	250	Encrypted messages – Frequency enabled for traffic in QYT9 Mode
REF	3741,5	1700	10	05	RUS	IchC2	CW			IchC2 working 7 outstations in Duplex : This network also uses the Cyrillic letters (Â Ô Û É Ch) in callsigns
REF	3741,5	1700	30	05	RUS	6DS4	CW			6DS4 working 7 outstations in Duplex : This network also uses the Cyrillic letters (Â Ô Û É Ch) in callsigns
REF	3742,5	0503	02	05	RUS	GUF4	A2B			GUF4 working XHK6 (comms checks : use QRJ Code) in Duplex
REF	3750,0	1800	02	05	RUS	RMW46	CW			RMW46 worked 14 outstations (RGT49 ; RGR88 ; RGR89 ; RGR90 ; RGR91 ; RFH46 ; RGR92 ; RGR93 ; RGR94 ; RGR95 ; RGR96 ; RGR97 ; RDQ81 ; RGR98) in Simplex
REF	3756,0	1701	16	05	RUS	Russian Navy	F1B	75	200	Encrypted messages – traffic in QYT9 Mode
REF	3776,0	1722	09	05	RUS	Russian Military	F1B	81	250	Encrypted messages
REF	3780,0	1816	01	05	RUS	M8LA	CW			M8LA working 6 outstations in Simplex

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REF	3799,5	1709	02	05	RUS	Russian Military	CIS-12/AT3 004D/USB	120 per channel	2700	Encrypted messages
REF	7008,0	0715	25	05	RUS	Russian Military	F1B	75	250	Encrypted messages – Frequency enabled for traffic in QYT9 Mode
REF	7020,0	0306	16	05	RUS	Russian Military	F1B	75	250	Encrypted messages – Frequency enabled for traffic in QYT9 Mode
REF	7020,0	0540	18	05	RUS	Russian Military	F1B	75	250	Encrypted messages – Frequency enabled for traffic in QYT9 Mode
REF	7118,0	0549	20	05	RUS	Russian Military	CIS-12/AT3 004D/USB	120 per channel	2700	Encrypted messages – Traffic in QYT4 Mode
REF	7149,0	0335	16	05	RUS	Russian Military	CIS-12/AT3 004D/USB	120 per channel	2700	Encrypted messages – Traffic in QYT4 Mode
REF	7162,0	0535	18	05	RUS	Russian Military	F1B	75	250	Encrypted messages – Frequency enabled for traffic in QYT9 Mode
REF	7176,0	0543	07	05	RUS	Russian Military	CIS-12/AT3 004D/USB	120 per channel	2700	Encrypted messages – Traffic in QYT4 Mode
REF	7177,0	0537	18	05	RUS	Russian Military	CIS-12/AT3 004D/USB	120 per channel	2700	Encrypted messages – Traffic in QYT4 Mode
REF	7184,0	0546	07	05	RUS	Russian Military	CIS-12/AT3 004D/USB	120 per channel	2700	Encrypted messages – Traffic in QYT4 Mode
REF	7184,0	0451	19	05	RUS	Russian Military	CIS-12/AT3 004D/USB	120 per channel	2700	Encrypted messages – Traffic in QYT4 Mode
REF	7184,0	0428	24	05	RUS	Russian Military	CIS-12/AT3 004D/USB	120 per channel	2700	Encrypted messages – Traffic in QYT4 Mode
REF	10108,0	1541	06	05	RUS	Russian Navy	F1B	50	200	Encrypted messages – traffic to nuclear forces
REF	10108,0	1340	11	05	RUS	Russian Navy	F1B	50	200	Encrypted messages – traffic to nuclear forces
REF	14008,0	1223	03	05	RUS	Russian Navy	F1B	50	250	Encrypted messages – naval traffic; HQ to fleet units – For information Qsx on 13432 kHz
REF	14008,0	1137	19	05	RUS	Russian Navy	F1B	50	250	Encrypted messages – naval traffic; HQ to fleet units – For information Qsx on 13432 kHz
REF	14108,0	0801	07	05	RUS	CPBS	CW			CPBS Wkg 6 outstations (comms checks and QTCs : MMMMM - uses a new set of callsigns on 1, 11 and 21 of every month) in Duplex (For information : Qsx on 13096 kHz and same transmission on 13868 kHz
REF	14160	1452	04	05	RUS	Russian Military	F1B	75	250	Encrypted messages

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REF	14192	1233	03	05	RUS	Russian Navy	F1B	50	500	Encrypted messages
REF	14226,0	0753	02	05	RUS	Russian Military	F1B	75	250	Encrypted messages
REF	14240,0	0948	26	05	RUS	Russian Military	CIS-12/AT3 004D/USB	120 per channel	2700	Encrypted messages – Traffic in QYT4 Mode
REF	14253,0	0621	02	05	RUS	Russian Military	F1B	75	250	Encrypted messages
REF	14272,0	1138	19	05	RUS	Russian Military	CIS-12/AT3 004D/USB	120 per channel	2700	Encrypted messages – Traffic in QYT4 Mode
REF	14272,0	1153	21	05	RUS	Russian Military	CIS-12/AT3 004D/USB	120 per channel	2700	Encrypted messages – Traffic in QYT4 Mode
REF	21438,0	0904	15	05	RUS	RCV	CW			RCV send QTC SML an alert message (XXX RJV 38956 OBLOVENXE 3804 9601) in Broadcast

REP – Portugal – CT4AN (Jose Francisco)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REP	3510	22.00	19	05	E		J3E-U			Spanish fishery
REP	3550	20.32	01	05	F		J3E-U			French fishery
REP	6998	21.31	26	05	RUS		A3E			Buzzer, 3kHz
REP	7000	19.38	07	05			FMCW	50	20k	OTH radar
REP	7000	21.31	26	05			J3E-U			Unid language
REP	7001	19.08	01	05	RUS		A3E			Russian buzzer spiltting inside 40m Band
REP	7005	11.10	11	05	E		J3E-U			Spanish fishery
REP	7028	20.24	21	05	RUS	V	A1A			Beacon, Russia MIL
REP	7038	23.45	14	05	UKR	D	A1A			SEVASTOPOL
REP	7038	23.57	14	05	RUS	P	A1A			MURMANSK
REP	7050	23.27	09	05			FMCW			OTH radar, distorted signals
REP	7082	18.58	05	05	RUS		F1B	75	250	CIS50, Russia
REP	7089	22.11	10	05	KAZ	V	A1A			ALMATY
REP	7110	13.21	01	05	RUS		F1B	50	200	CIS36-50 modem
REP	7120	17.23	08	05	SOM		8k00 A3EGN			Radio Hargaysa, Somalia
REP	10115	19.44	13	05	E		J3E-U			Spanish fishery
REP	10117	17.27	14	05	RUS		F1B	75	250	CIS50, Russia
REP	10125	20.00	13	05			A3E			Letter Station - 5 letters
REP	10134	16.57	06	05	MRC		J3E-U			Moroccan fishery
REP	10140	19.35	14	05			FMCW	50	17k	OTH radar
REP	14000	21.03	12	05			F1B			Unid sellcall
REP	14005	16.12	04	05	RUS		BPSK	120		Mil station
REP	14024	11.40	18	05	RUS		PSK2	120	3k	AT3004D, 12x120bps pilot tone 3kHz
REP	14115	08.47	18	05			FMCW			OTH radar
REP	14136	10.34	18	05	RUS		F1B	50	250	CIS36, Russia
REP	14159	19.42	05	05	RUS		F1B	75	250	CIS50, Russia
REP	14192	17.29	14	05	RUS		F1B	50	200	CIS36, Russia
REP	18050	10.05	21	05	RUS		F1B	50	200	CIS36-50 modem
REP	18075	15.09	05	05			FMCW	50	20k	OTH radar
REP	21205	13.39	20	05			FMCW			OTH radar
REP	21215	14.51	22	05	MRC		J3E-U			Fishermen
REP	21254	18.45	17	05	CYP		FMCW	50	20k	OTH radar, Cyprus
REP	28000	19.24	01	05	B		J3E-U			Brazilian cb'rs

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REP	28025	18.25	13	05			F1B	51	270	Enagal GPS buoy
REP	28030	19.46	12	05		Y	A1A			Drifnet buoy
REP	28100	19.25	01	05	B		J3E-U			Brazilian CB and Enagal GPS buoy
REP	28289	13.10	26	05	G		J3E-U			Scottish fishery
REP	28555	10.33	19	05	RUS		F3E			Taxi dispatcher
REP	28725	11.00	19	05	RUS		F3E			Russian taxis dispatchers
REP	28-29xx	Dly			B		A3E			Brazilian intruders
REP	28-29xx	Dly			RUS		F3E			Russian Federation taxis dispatchers
REP	28-29xx	Dly					A1A			Drifnet buoys

RSGB - Great Britain – M0VRR (Vaughan)

SRAL – Finland – OH2BLU (Pekka)

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
SRAL	6998,0	0200-1930	dly	5	RUS	UiTone	R3E			125 Hz tones
SRAL	7006,5	1210	7.	5		UiPTR	F1B			
SRAL	7008,0	0600-1915	25. 26.	5		UiPTR	F1B		250	
SRAL	7016,0	0530-1930	*	5	RUS	UiPTR	F1B		250	Days: 3. 15. 27. 28.
SRAL	7018,6	0430-1930	*	5		UiCarr	N0N			Days: 25. 26. 27. 30. 31. Also F1A 250 Hz MR 5BL
SRAL	7020,0	0130-1930	*	5		UiPTR	F1B/ N0N		250	Days: 2. 4. 9. 10. 13. – 18.
SRAL	7025,0	1120-1300	28.	5		UiPTR	F1B			
SRAL	7027,5	1400-1930	7. – 31.	5	UZB	V	A1A			
SRAL	7034,0	1130	8.	5		UiMUX	PSK2	120	2600	
SRAL	7034,0	1015-1726/	28. 31.	5		UiPTR	F1B			
SRAL	7036,0	-1918/	1.	5		UiPTR	F1B		500	
SRAL	7039,0	0730-1600	*	5	RUS	C	A1A			Moscow, days: 5. 7. 8. 28. (daily on SK3W WEBSDR)
SRAL	7039,5	1000-1030	28.	5		UiCW	A1A			Hand keying “T T...”
SRAL	7049,0	0310	20.	5		UiPTR	F1B			
SRAL	7072,0	1145-1330	25.	5		UiMUX	PSK2	120	2600	
SRAL	7076,0	1030-1900	6. 20.	5	RUS	UiPTR	F1B		250	
SRAL	7078,0	0830-1200	27.	5		UiMUX	PSK2	120	2600	
SRAL	7099,0	1920	16.	5		UiPTR	F1B			
SRAL	7111,0	0840-0945	4.	5		UiPTR	F1B		250	
SRAL	7120,0	0430	20.	5		UiMUX	PSK2	120	2600	
SRAL	7120,0	/0330-0430/	dly	5	SOM	R.Hargeis a	A3E			
SRAL	7120,0	/1450-1900/	dly	5	SOM	R.Hargeis a	A3E			
SRAL	7122,0	1600-1930	*	5	UZB	V	A1A			Days: 6. – 25. Negative keying on 22. – 24.
SRAL	7122,0	0530-1930	9. – 11.	5		UiPTR	F1B		250	
SRAL	7151,0	1745-1900	18. 20.	5		UiMUX	PSK2	120	2600	
SRAL	7152,0	1500-1800	27. 28.	5		UiMUX	PSK2	120	2600	
SRAL	7158,0	0645	5.	5		UiMUX	PSK2	120	2600	

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
SRAL	7162,0	1730-0651/	18. 25.	5		UiPTR	F1B		250	
SRAL	7164,0	0830	8.	5		UiMUX	PSK2	120	2600	
SRAL	7172,0	0930-1000	5.	5		UiMUX	PSK2	120	2600	
SRAL	7176,0	0515-1900	6. 9. 25.	5	RUS	UiPTR	F1B		250	
SRAL	7179,0	0310-2330	*	5		UiMUX	PSK2	120	2600	Days: 24. 26. 27. 28.
SRAL	7181,6	1815-2400	31.	5		UiCarr	N0N			
SRAL	7186,0	h24	*	5		UiMUX	PSK2	120	2600	Days: 6. 7. 8. 18. – 24. Carrier on 7184 kHz
SRAL	7198,0	1740	6.	5		UiMUX	PSK2	120	2600	
SRAL	7200,0	1000-1300/	dly	5	CHN	CNR1	A3E			Used as jammer on TWN
SRAL	7200,0	1300-1500/	dly	5	MYA	R Myanmar	A3E			
SRAL	7 MHz	0930-1600	*	5	RUS	29B6	FMCW			50Hz / 15 kHz, days: 4. - 7. 10. 11. 15. 18. 19.
SRAL	7 MHz	2100-0500	*	5	RUS	29B6	FMCW			50Hz / 15 kHz, days: 4. - 7. 10. 11. 15. 18. 19.
SRAL	10 MHz	0800-0830	1. 2.	5	RUS	29B6	FMCW			50Hz / 15 kHz (WebSDR 15 days)
SRAL	14008,0	1230	2.	5		UiPTR	F1B/ N0N		250	
SRAL	14064,0	1015	18.	5		UiPTR	F1B		250	
SRAL	14108,0	0605	30.	5		UiCW	A1A			MR 5BL
SRAL	14116,0	0655-0730/	26.	5		UiPTR	F1B		250	
SRAL	14160,0	0440-1920	*	5	RUS	UiPTR	F1B		250	Days: 4. 5. 6. 18. 29.
SRAL	14180,0	0230-1545	1. – 5.	5		UiPTR	F1B		200	
SRAL	14192,0	0530-1930	*	5	RUS	UiPTR	F1B		200/500	Days: 4. 5. 28. – 31.
SRAL	14221,0	2330-0600/	dly	5	KGZ	UiPTR	F1B		200	
SRAL	14226,0	1000-1330	2.	5	RUS	UiPTR	F1B/ N0N		250	
SRAL	14242,0	0750	26.	5		UiMUX	PSK2	120	2600	
SRAL	14274,0	0425-1915	19. – 25.	5		UiMUX	PSK2	120	2600	
SRAL	14295,0	0200-1930	dly	5	TJK	R Tojikiston	A3E			3f 4765,00 kHz, Yangiyul TX
SRAL	14 MHz	/0602-1400	*	5	RUS	29B6	FMCW			50Hz / 15 kHz, days: 18. 19. 23. 25. 31.
SRAL	14 MHz	h24	*	5	RUS	UiOTHR	FMCW			10Hz / 15 kHz, 30 sec transmit with 16 min cycle, days: 24. 25. 29. 30. (WebSDR daily)
SRAL	18 MHz	1230-1300	2. 3.	5	CYP / TUR	UiOTHR	FMCW			25/50Hz / 20 kHz, (WebSDR 10 days)
SRAL	21 MHz			5	CYP / TUR	UiOTHR	FMCW			25/50Hz / 20 kHz, (WebSDR 8 days)
SRAL	21295,0	0600	30.	5	AUS	UiOTHR	FMCW			“JORN”
SRAL	21438,0	0830-1330	*	5	RUS	RCV	A1A			Days: 5. 7. 8. 22. 25. 27. 28. 29.
SRAL	24 MHz			5		UiOTHR	FMCW			No reports
SRAL	28 MHz			5	IRN	UiOTHR	FMCW			307 & 870 Hz / 60 kHz – 300 kHz, no reports
SRAL	28 MHz	0530-1730	*	5	IRN	UiOTHR	FMCW			150 & 313 Hz / 60 kHz , days: 16. 25. – 31. On 28960 kHz
SRAL	28 MHz	1000-1300	28.	5		UiOTHR	FMCW			25/50Hz / 20 kHz
SRAL	28 MHz	0545-1625	*	5	RUS	Taxi disp.	F3E			Days: 15. 17. 21. 25. 27. – 31. 120 reports

USKA – Switzerland – HB9CET (Peter)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
80m band informational only! Primary allocation but shared with other also primary allocated services !										
USKA	3525.0	2231	30	05			DQPSK	14x75	5k9	LINK 11 CLEW; often (STANAG 5511) DSB mode
USKA	3552.0 VFO USB	2229	30	05			G1D	2400	~2k4	Stanag 4285; PSK8 daily
USKA	3568.0	2225	30	05			F1B	75	250	
USKA	3743.0 VFO USB	2237	30	05			PSK8	2400	~2k7	MIL188-110A (Hybrid), often preamble 4 tone PSK4
USKA	6998.0	2222	30	05			H3E-U Bursts		~3k6	"Buzzer" up to ≥ 7001.5 kHz daily
USKA	7027.5	2215	30	05		V	A1A			Beacon V often
USKA	7039.4	0619	31	05	RUS	M	A1A			Beacon M Magadan
USKA	7050.0	2210	30	05			J3E-L			Music and Voice (no ham)
USKA	7120.0	1335	31	05	SOM		A3E		10k	Radio Hargaysa almost daily
USKA	7197.0	2240	30	05	TUR	123456	MFSK8	125	1750	MIL 188-141A often
USKA	7197.0	2252	30	05	TUR	368013	MFSK8	125	1750	MIL 188-141A
USKA	7200.0	1329	31	05			A3E		10k	BC; lower sideband down to 7195
USKA	14008.0	1134	19	05			F1B	50	250	often
USKA	14113.0	0956	18	05			FMCW	50 sps	~13k	OTHR
USKA	14160.0	1633	05	05			F1B	75	250	
USKA	14180.0	1443	03	05			F1B	36+50	200	CIS 36-50 often
USKA	14192.0	1018	02	05			F1B	50	500	often
USKA	14192.0	1653	05	05			F1B	50	200	
14295.	14295.1	1644	05	05	TDJ		A3E		~9k	3 rd from 4765 – Radio Tajikistan
USKA	14298.0	0842	25	05			FMCW	50 sps	~13k	OTHR
USKA	14300.0 VFO USB	1452	03	05			BPSK	16x75	2k2	Burst system; 16 tones, often
USKA	18100.0	1639	05	05			FMCW	50	20k	OTHR
USKA	21353.0	1417	03	05			xPSK	1200	1k5	ARQ system
USKA	21403.0	1433	03	05			DQPSK	8x75	2k4	CHN4+4; 2x4 tones, 300 Hz between each tone, 450 Hz between the two tones in the middle
USKA	21438.0	0902	18	05		RCV	A1A			letters and figures almost daily

Veron – Netherlands – PA2GRU (Dick)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	DETAILS
VERON	3600,0	19.40	26	5		UiPTR	F1B		Fast Revs
VERON	3608,0	20.02	2	5		UiPTR	F1B		Revs (also at 31/5 2022 UTC)
VERON	3618,0	19.28	26	5	CIS	UiCW	A1A		5BL
VERON	3619,5	19.22	26	5		UiPTR	F1B		Revs
VERON	3700,0	20.03	2	5		UiPTR	F1B		Ptr
VERON	7008,0	19.30	24	5		UiPTR	F1B		Ptr
VERON	7027,5	16.24	5	5	RUS	RCV	A1A		RFH70 DE RCV QYT4 QSX 8302 K
VERON	7060,0	05.35	7	5	KGZ	?	F1B	200	revs
VERON	7060,0	05.45	7	5	RUS	?	F1B	250	ptr, revs
VERON	7060,0	08.00	7	5	RUS	CPBS	A1A		NMNR DE CPBS QTC 436 22 7 1050 436
VERON	10108,0	08.55	18	5	CIS	UiPTR	F1B		Revs/Ptr
VERON	10108,0	08.48	30	5	CIS	UiCW	F1A		5F (followed by F1B Revs/Ptr)
VERON	10150,0	09.19	22	5		UiPTR	F1B		Idle
VERON	14008,0	08.27	9	5	CIS	UiPTR	F1B		Carrier/Revs/Ptr (also 19/5 1150 UTC)
VERON	14108,0	08.00	7	5	RUS	CPBS	A1A		BT 321 BT (5BL) 718
VERON	14108,0	08.14	7	5	RUS	CPBS	A1A		MNVB DE CPBS 583 19 7 1104 583 BT
VERON	14108,0	08.14	7	5	RUS	CPBS	A1A		ZVV 321 BT (5BL) 718 RPT AL K

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	DETAILS
VERON	14108,0	07.50	18	5	RUS	RMW32	A1A		RGR91 DE RMW32 5F, proc
VERON	14108,0	07.51	18	5	RUS	RMW32	A1A		RGR93 DE RMW32 proc
VERON	14108,0	07.59	18	5	RUS	RMW32	A1A		RGE94 DE RMW32 proc
VERON	14108,0	16.50	19	5	KAZ	V	A1A		V-beacon
VERON	14108,0	07.33	23	5	RUS	GIC6	A1A		NAHZ DE GIC6 proc
VERON	14108,0	07.34	23	5	RUS	GIC6	A1A		VYME DE GIC6 proc
VERON	14108,0	07.35	23	5	RUS	GIC6	A1A		LCIM DE GIC6 proc
VERON	14108,0	07.36	23	5	RUS	GIC6	A1A		K3ZQ DE GIC6 proc
VERON	14108,0	09.06	22	5	CIS	UiCW	A1A		XXX N1DX 05220 Parla- menter 8950 2198
VERON	14108,0	08.52	24	5	CIS	GIC6	A1A		JEB8 de GIC6 ZBH ZBE ZKK QYT9 k
VERON	14108,0	09.00	24	5	CIS	GIC6	A1A		JEB8 de GIC6 ZOU ZVS ZNO QYT9 k
VERON	14108,0	09.09	24	5	CIS	GIC6	A1A		JEB8 de GIC6 QBE QYT6 k
VERON	14108,0	09.12	24	5	CIS	GIC6	A1A		JEB8 de GIC6 ZIL ZBR ZKU QYT6 k
VERON	14108,0	12.05	29	5	CIS	GIC6	A1A		GOYO de GIC6 QTC 425 MMMMM 5BL
VERON	14110,0	07.37	23	5	RUS	GIC6	A1A		PR7U DE GIC6 proc
VERON	14160,0	14.28	4	5		UiPTR	F1B		Ptr (also 29/5 1208 UTC)
VERON	14169,0	08.18	9	5		UiPTR	F1B		Ptr
VERON	14180,0	12.40	2	5	CIS	UiCW	F1A		XXX XXX (followed by F1B Revs/Ptr)
VERON	14192,0	08.12	23	5	RUS	GIC6	A1A		JEB8 DE GIC6 200 32 23 1106 200 BT 540
VERON	14192,0	08.12	23	5	RUS	GIC6	A1A		BT (5BL) RPT AL K
VERON	14192,0	14.27	4	5	CIS	UiPTR	F1B		Revs/Ptr (also 10/5 29/5)
VERON	14221,0	08.35	23	5	RUS	RCV	A1A		RYX94 DE RCV QTC 762 40 22 1301 762
VERON	21126,0	08.35	23	5	RUS	RCV	A1A		BT NAWIP (etc)
VERON	21438,0	08.41	23	5	RUS	RCV	A1A		RIP90 DE RCV QTC 438 34 21 1404 438
VERON	21438,0	08.41	23	5	RUS	RCV	A1A		BT NAWAREA (etc)
VERON	21438,0	10.42	15	5	RUS	UiPtr	F1B	200	
VERON	21438,0	12.09	21	5		UiRadar	FMCW	30k	OTHR; 50sps
VERON	21438,0	10.00	23	5		OTHR	FMCW		radar

The monitoring team of IARU Region 1

credits:

Wavecom Elektronik – Buelach – Switzerland

German BNetzA Konstanz

Many thanks for your interest!

compiled and published by DK2OM

June 2016