



International Amateur Radio Union

Region 1



# 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

## August 2016

### The 30 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 – Amos ++ 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

Part 2: Detailed reports of the national co-ordinators

Copyright © IARUMS Region 1 - DK2OM

# Part 1: News and Infos

## 1. 5 MHz flooded by fishermen

**EI3GYB (Michael) found many fishermen on 5 MHz:**

Frequencies so far:

5362.5;5400;5345.2;5360;5280;5327 KHz- all USB.

5 Mhz is legal for HAMs in Ireland,UK and other countries for a long time already. We have a number of spot frequencies we can use as secondary user. And I keep meeting the fishermen on some of these. The situation on 5 MHz is ideal for the fishermen. Many countries have different allocations for HAMs. On top of this the new 5 MHz band was already opened up in some countries as well. The band is cut into many small segments used by different countries. So the fishermen can hide among the crowd.They do not stick out.

As soo as a DX station or some rare country comes up on 5 MHz, all rules are forgotten by HAMs and everybody just follows the crowd, regardless of legality. Just watch what is going on with CY9C at the moment.As soon as they are on 5 MHz, the chaos unfolds.Allocations are forgotten by a big part of the HAM community.

**The comment of G3PSM (Colin):**

By official I mean the Radio Regulations which come in effect on the 1st January 2017. All other allocations are under Radio Regulation 4.4 which allows any administration to allocate a frequency to any service on the basis on non-interference.

**Wolf's comment:** I tried to find fishery traffic there on Aug.25<sup>th</sup>, but no success here in DL. There is no entry about legal commercial fishery frequencies in my tables between 5000 and 5800 kHz. But I found another intruder:

A fellow transmitting on AM with a very unstable carrier same as on the CW range of 80 m. Possibly coming from CIS.

## 2. PRC4+4 from China:

We found the Chinese system PRC4+4 on 10, 14 and 21 MHz. Take note: Traffic on 10 MHz legal !

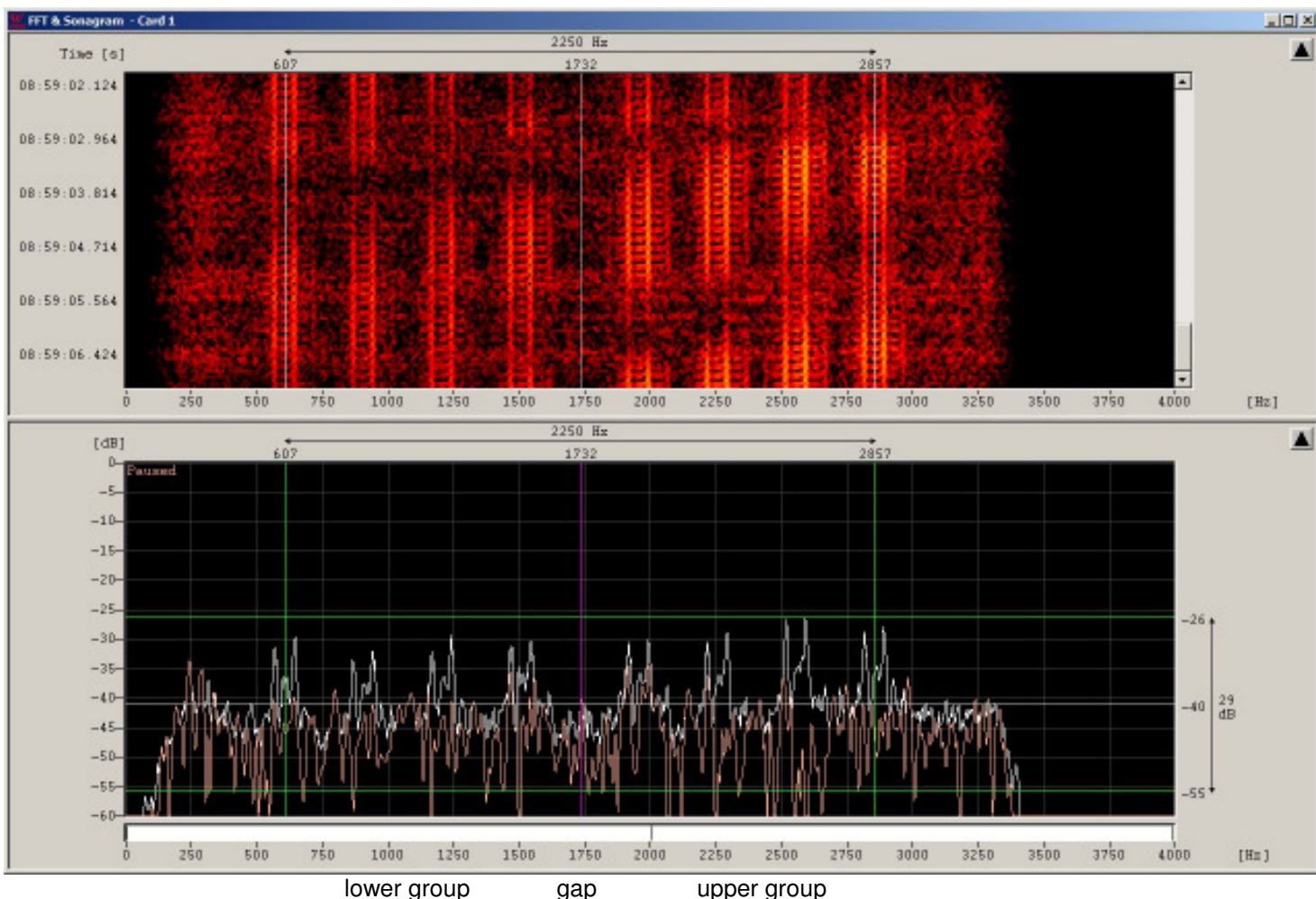
Parameters: Traffic 8 x 75 Bd PSK4A or PSK4B, bandwidth 2250 Hz.Transmission of 4 letter or 4 figure groups.

Idents and confirmation traffic are in plain text. Idle condition 8 x FSK 150 Bd The system seems to run very stable. Even CW signals from amateurs are not showing any influence. W-Code can decode PRC4+4.

Sonagram and FFT: PRC4+4 in idle condition 8 x FSK 150 Bd (**DK2OM with Wavecom W-Code**)

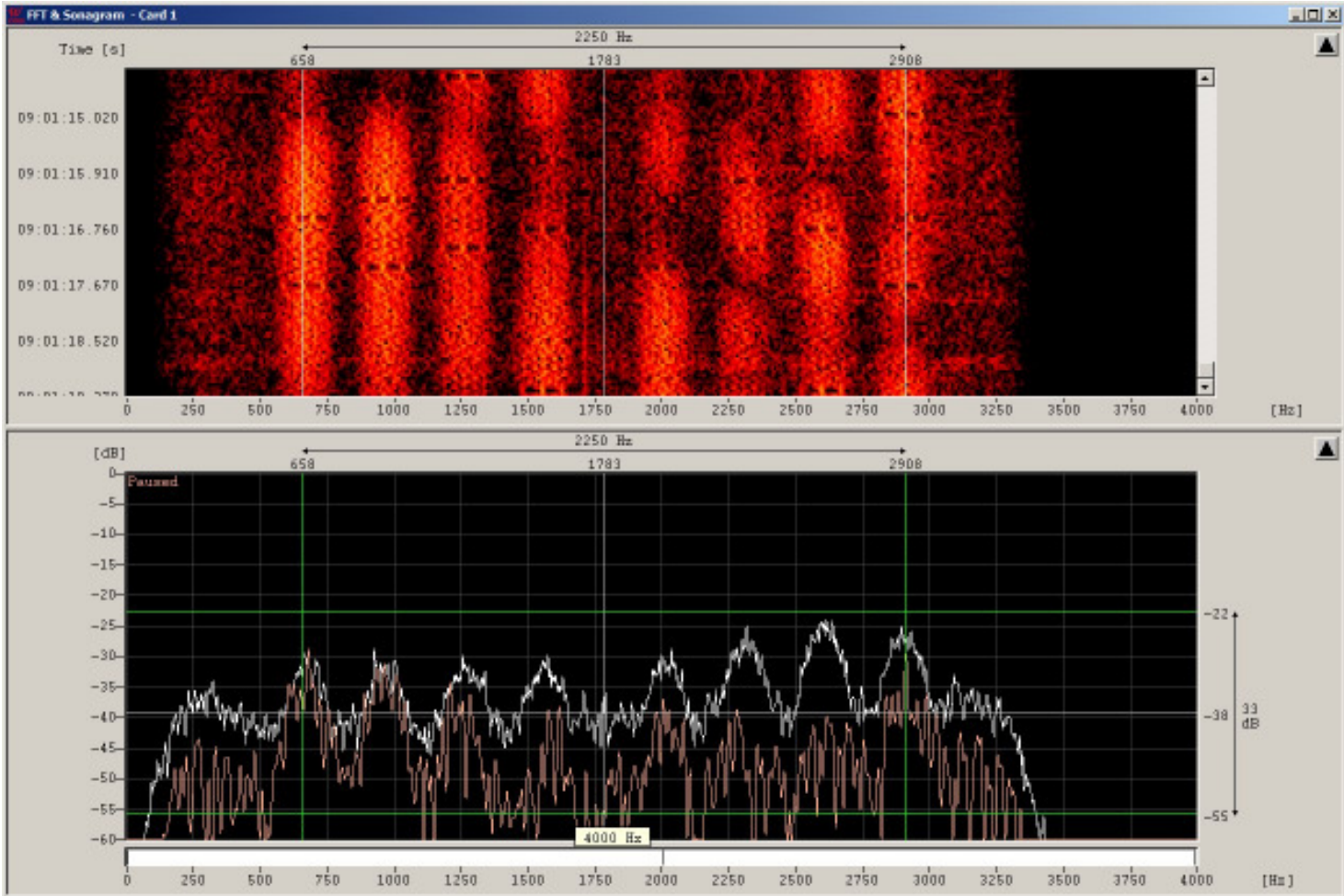
You can see a gap between the upper and the lower group.

**Soundfile:** <http://www.iarums-r1.org/iarums/sound/prc4+4-idle.wav>



PRC4+4 in traffic condition – sonogram and FFT (DK2OM with Wavcom W-Code):  
You can see a gap between the upper and the lower group.

Soundfile: <http://www.iarums-r1.org/iarums/sound/mfsk8c.wav>



### 3. Russian Radar Contayner on 7 and 14 MHz

Rhe Russian radar Contayner was again active with long lasting transmissions on 7 and 14 MHz, often with many spurious emissions

### 4. Spanish fishermen on 80 m with voice scrambler

Spanish fishermen were abusing 3510 and 3590 kHz USB with the voice scrambler “CRY 2001”. This scrambler is using a FSK synchro signal, which is audible during every microphone change. The FSK bursts works with 100 Bd and 170 Hz shift.

### 5. Radar Iran on 28960 kHz daily – no change

The Iranian radar was daily transmitting 28960 kHz on FMOP with 150 and 313 sps covering about 50 kHz. Many spurious emissions.

### 6. No changes

3590.0 kHz – USB – Spanish fishery with voice scrambler “CRY 2001” every evening  
6998.0 kHz - Russian buzzer – daily and all day  
7120.0 kHz – Radio Hargaysa Somalia  
7205.0 kHz – RFI = Radio France International) splattering down to 7185 kHz every evening  
14295.0 kHz Radio Tajik (harmonic from 4765 kHz)

- 7. Homepage IARU Region 1 <http://www.iaru-r1.org/>
- Homepage IARUMS Region 1 <http://www.iarums-r1.org>
- Homepage IARUMS Region 2 <http://www.iaru-r2.org/>
- Homepage IARUMS Region 3 <http://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 AUGUST 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)

H'd by	kHz	UTC	dd	mm	ITU	Identity	MODE	Details
ARSK	7.000.00	vt	dly	8	E. Africa	?	J3Eu	Unidentified, KiSwahili, East Africa. Possibly military.
ARSK	7,070.0	1350	14	8		?	J3E	Unknown African language.
ARSK	7,074.00	vt	dly	8	E. Africa ?	?	J3E	Unidentified language,
ARSK	7,075.00	vt	dly	8	E. Africa	?	J3Eu	Unidentified language
ARSK	7,120.00	vt	dly	8	Rep.of Somalia	Hargeisha	A3E	Broadcast
ARSK	7,164.00	vt	dly	8	E. Africa?	?	J3Eu	Military? Phonetics, messages.

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

DG0JBJ (Mario) observed 13 OTH radars on 40 m, 17 OTH radars on 20 m, 35 OTH radars on 17m, 8 OTH radar on 15 m and 5 OTH radar on 10 m in August 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	1934	01	08	RUS		USB LSB			14 tones – hyperbolic radio navigation system – BRAS-3/RS-10 – Kaliningrad – no carrier - daily, all day
DK2OM	1852,0	vt	dly	08	I	IPP	USB			Palermo Radio, weather reports
DK2OM	1855,0	vt	dly	08	I	IQP	USB			San Benedetto Radio, weather reports
DK2OM	1876,0	vt	dly	08	I	IQN	USB			Lampedusa Radio, weather reports
DK2OM	1888,0	vt	dly	08	I	IPD	USB			Civitavecchia Radio, weather reports
DK2OM	1896,5	1935	01	08	D		PSK8	2400	2400	Stanag4285 – 600 bps long – German Navy – daily, all day
DK2OM	1925,0	1919	19	08	I	IPL	USB			Livorno Radio, weather reports
DK2OM	3500,0	---	--	08	F		FMCW		20k	French burst radar, 6 sps, similar Codar sounding, South France

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	3500,0	vt	dly	08	TUR		FSK8	125	1750	ALE, "2016" "4017" – Turkish Red Crescent – just for info!
DK2OM	3501,0	---	--	08	UKR		FSK8	125	1750	ALE, "H10" "B10" "I10" "D10" "G10" –just for info!
DK2OM	3503,5	1939	24	08	G	no ITU	FSK8	125	1750	ALE – "XSS" "XPU" "XJR" – British MIL Tascomm – vt, daily - legal!
DK2OM	3506,0	1941	24	08	UKR		PSK2A	120	2600	AT3004D - Kyiv
DK2OM	<b>3510,0</b>	<b>1919</b>	<b>31</b>	<b>08</b>	<b>E</b>		<b>USB</b>			<b>Spanish fishery with voice scrambler CRY 2001</b>
DK2OM	3515,0	2025	15	08	HOL		USB			Dutch fishery
DK2OM	3520,0	1735	12	08	E		USB			Spanish fishery – also 17.08.2016 at 1937 utc
DK2OM	3525,0	---	--	08	F		PSK4	75	5800	LINK11-CLEW on both sidebands (5800 Hz wide) – area of Marseille – legal!
DK2OM	3525,0	1931	31	08			PSK2A	120	2600	AT3004D -
DK2OM	3531,0	1921	01	08	RUS	REA4	N0N			unclean carrier - RUS airforce Moscow, ident: 1940 utc - daily
DK2OM	3532,0	---	--	08	F		PSK4	75	5800	LINK11-CLEW on both sidebands (5800 Hz wide) – area of Brest – legal!
DK2OM	3535,0	0730	30	08	G		USB			UK fishery
DK2OM	3540,0	1730	11	08	E		USB			Spanish fishery
DK2OM	<b>3550,0</b>	<b>0530</b>	<b>dly</b>	<b>08</b>	<b>F</b>		<b>A3E</b>			<b>French amateurs not respecting bandplans - daily</b>
DK2OM	3550,0	vt	vd	08	ALG	no ITU	FSK8	125	1750	ALE, "IU50" "IU52" "FN50"
DK2OM	3550,7	1929	10	08	ISR		PSK4 PSK8	2400 2400	2400 2400	hybrid modem – ISR Navy – PSK4 parallel and PSK8 serial - legal operation
DK2OM	3553,8	ady	dly	08	TUR		PSK8	2400	2400	Stanag4285 – 600 bps long -TUR MIL - Ankara – daily, all day - legal operation
DK2OM	3560,0	1850	13	08	F		USB			French fishery
DK2OM	3569,0	1940	11	08	RUS		F1B	50	200	St. Peterburg
DK2OM	3576,6	ady	dly	08	I	IZ3DVW	A1A			3576.550 - uncoordinated beacon – disturbing JT65
DK2OM	3580,0	0940	17	08			USB			Scandinavian intruders
DK2OM	3582,0	1913	29	08	RUS		PSK2A	120	2600	AT3004D – St. Peterburg
DK2OM	3585,0	1940	12	08	TWN	HLL	F1C		800	WX-fax Taiwan - 120 rpm, IOC 576, - daily, all day - legal!
DK2OM	3586,0	1940	12	08	G		PSK2A	40	40	encrypted – every evening Great Britain – purpose unknown
DK2OM	3587,0	vt	vd	08	E	no ITU	FSK8	125	1750	ALE, "TVV" "TXX" - Spanish Guardia Civil
DK2OM	3590,0	vt	dly	08	PAK	no ITU	FSK8	125	1750	ALE, "KW" "KHAIBAR" – Pakistan navy
DK2OM	<b>3590,0</b>	<b>2000</b>	<b>04</b>	<b>08</b>	<b>E</b>		<b>USB</b>			<b>Spanish fishery – every evening</b>
DK2OM	<b>3590,0</b>	<b>2013</b>	<b>07</b>	<b>08</b>	<b>E</b>		<b>USB</b>			<b>Spanish fishery with voice scrambler CRY 2001</b>
DK2OM	3590,0	1900	15	08	RUS		PSK2A	120	2600	AT3004D – modem idle and traffic - Kaliningrad
DK2OM	3590,4	2054	24	08		V	A1A			beacon "V" on 3590.396 and 3591.307 – parallel -
DK2OM	3593,7	---	--	08	RUS	D	A1A			Cluster beacon – Sevastopol RUS Navy – "RCV"
DK2OM	3593,8	---	--	08	RUS	P	A1A			Cluster beacon – Kaliningrad RUS Navy – "RMP"
DK2OM	3593,9	---	--	08	RUS	S	A1A			Cluster beacon – Severomorsk RUS Navy – „RIT“
DK2OM	3594,0	---	--	08	RUS	C	A1A			Cluster beacon C - Moscow RUS Navy - "RIW"
DK2OM	3595,0	---	--	08	RUS	K	A1A			Cluster beacon - Petropavlovsk Kamchatskiy - RUS Navy - Pacific fleet - "RCC"
DK2OM	3596,0	vt	dly	08	D		FSK8	125	1750	ALE, "DK0ESD" – just for info!
DK2OM	3596,0	vt	dly	08	J		FSK8	125	1750	ALE, "JH1ESB" – just for info!

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	3617,0	vt	dly	08	HRV	9A5EX	FSK8	125	1750	ALE, "9A5EX" – HAM-ALE - just for info
DK2OM	3622,5	1932	05	08	J	JMH	F1C		800	Tokyo Meteo – 120 rpm – IOC 576 – daily, all day - legal!!!
DK2OM	3640,0	vt	dly	08	G		FSK8	125	1750	ALE, "XSS" - British MIL Tascomm – just for info!
DK2OM	3642,0	ady	dly	08	CHN		A1A			loop – DKG6 de 3A7D Chinese military – daily, all day
DK2OM	3649,0	vt	vd	08	ALG	no ITU	FSK8	125	1750	ALE, "BI20" PA20"
DK2OM	3658,0	---	--	08	UZB		A1A			beacon "V" - Tashkent
DK2OM	3718,0	vt	vd	08	FEa	7CJK	A1A			loop "7CJK"
DK2OM	3720,0	vt	dly	08	S		FSK8	125	1750	ALE, "YU" "YT" "YV" "DZ" – Swedish MIL
DK2OM	3751,5	vt	dly	08	POL	no ITU	FSK8	125	1750	ALE, "IZ3" "MI3"
DK2OM	3756,0	1915	01	08	RUS		A3E			RUS MIL – channel marker – Tuapse – East Black Sea – night QRG – daily – even audible in Japan
DK2OM	3757,0	ady	dly	08	FEa	RIS9	A1A			"M8JF de RIS9" - loop
DK2OM	3761,5	vt	vd	08	POL	no ITU	FSK8	125	1750	ALE, "NI9" "PL7" "AB2" – Polish MIL
DK2OM	3772,0	ady	dly	08	FEa	A4JC	A1A			"A4JC" - loop
DK2OM	3777,0	ady	dly	08	FEa		A1A			"M8JF de RIS9" – loop – dly
DK2OM	3791,0	vt	vd	08	D	DK0ESD	FSK8	125	1750	ALE, "DK0ESD" – daily just for info!
DK2OM	3797,0	ady	dly	08	FEa		A1A			"M8JF de RIS9" – loop
DK2OM	6990,0	1703	04	08	CHN		FMCW		160k	Chinese broadband OTH radar – 10 sps – 6990 – 7150 kHz
DK2OM	6998,5	vt	dly	08	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	08	INS		USB LSB			Indonesian pirates – daily – all day - audible in Europe in the evenings
DK2OM	7000,0	1936	01	08	RUS		H3E		3.4 k	<b>buzzer – 1 sec bursts - 118 Hz AF rough sinus – carrier on 6998.0 + upper sideband - with splatters 10 kHz wide – daily, all day - Moscow</b>
DK2OM	7000,0	vt	dly	08	CHN		FSK8	125	1750	ALE, "157" "162"
DK2OM	7000,0	1235	16	08	RUS		PSK2A	120	2600	AT3004D – Far East Russia
DK2OM	7000,8	0830	11	08			PSK8A	2400	2400	MIL-188-110B inverted – 6999.0 kHz RF
DK2OM	7001,5	0700	vd	08	POL		PSK8	2400	2400	RF QRG 6998.5 kHz – 7000.3 kHz center - MIL-188-110A – 600 / 300 bps short – Polish MIL
DK2OM	7005,0	vt	dly	08	INS		USB LSB			Indonesian pirates
DK2OM	7010,0	vt	dly	08	INS		USB LSB			Indonesian and Philippine pirates
DK2OM	7015,0	vt	dly	08	INS		USB LSB			Indonesian pirates
DK2OM	7016,0	1711	23	08	RUS		F1B	75	250	Moscow
DK2OM	7018,0	---	--	08	RUS	REA4	F1B	100	800	mostly idling – Russian airforce Moscow – ident at full hour + 41 min. on F1A
DK2OM	7020,0	vt	dly	08	INS		USB LSB			Indonesian pirates
DK2OM	7020,0	---	--	08	ALB		FSK8	125	1750	ALE, "CS004A" "RS008D" "RS0" – Albanian coast - daily
DK2OM	7022,0	0745	18	08	RUS		PSK2A	120	2600	AT3004D – East Black-Sea
DK2OM	7025,0	vt	dly	08	INS		USB LSB			Indonesian pirates
DK2OM	7027,5	1859	15	08	KAZ	„V“	A1A			beacon "V" – Almaty – daily, all day
DK2OM	7030,0	vt	dly	08	INS		LSB			Indonesian pirates

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	7035,0	vt	dly	08	INS		USB LSB			Indonesian pirates
DK2OM	7035,0	0803	31	08	RUS		FMCW		10k	OTH burst radar Contayner - 10 sps - Gorodezh
DK2OM	7039,0	---	--	08	RUS	C	A1A			Cluster beacon C - Moscow RUS Navy - "RIW"
DK2OM	7039,1	---	--	08		A	A1A			beacon "A" - loop
DK2OM	7039,3	---	--	08	RUS	K	A1A			Cluster beacon K Petropavlovsk Kamchatskiy - RUS Navy - Pacific fleet - "RCC" - daily
DK2OM	7039,4	1828	20	08	RUS	M	A1A			Cluster beacon M - Magadan RUS Navy - „RTS“ - distorted with spurious emissions
DK2OM	7039,8	1304	28	08	RUS	F	A1A			Cluster beacon F - Vladivostok RUS Navy - "RJS"
DK2OM	7040,0	vt	dly	08	INS		USB LSB			Indonesian pirates
DK2OM	7040,0	vt	dly	08	F	F6BAZ	FSK8	125	1750	ALE, "F6BAZ" - just for info
DK2OM	7040,0	ady	dly	08	I		A1A			<b>IZ3DVW - uncoordinated and unwanted beacon</b>
DK2OM	7040,5	vt	dly	08	HRV		FSK8	125	1750	ALE, "9A5EX" "9A0ALE" - just for info
DK2OM	7041,0	1905	25	08	FEa		FMCW		32k	Codar like ocean surface radar 2.6 sps - 7041 - 7073 kHz
DK2OM	7047,37	vt	vd	08	D		FSK8	125	1750	ALE, "DL0NOT" - just for info!
DK2OM	7049,5	vt	vd	08	HRV G F	9A0ALE M1DFO F6BAZ	FSK8	125	1750	Amateur ALE, just for info! daily - various times
DK2OM	7050,0	1904	02	08	RUS UKR		LSB			<b>music transmissions - private war ?</b>
DK2OM	7055,5	vt	vd	08	MEa	no ITU	FSK8	125	1750	ALE, "111" "132" "133" - Kaukasus
DK2OM	7056,8	0735	18	08	UKR		PSK8	2400	2400	MIL-188-141B
DK2OM	7060,0	1611	18	08	RUS		PSK2A	120	2600	AT3004D - traffic and submode idle - Moscow
DK2OM	7060,0	1823	20	08	FEa		FMCW		32k	Codar like ocean surface radar 2.6 sps - 7060 - 7092 kHz
DK2OM	7062,0	1940	09	08	RUS		FMCW		13k	OTH radar Contayner - 50 sps - Gorodezh
DK2OM	7064,0	1934	23	08	RUS		PSK2A	120	2600	AT3004D - Far East Russia
DK2OM	7070,0	vt	vd	08	GEO	no ITU	FSK8	125	1750	ALE, "MV" "244" "686" "334" "204" "571" - daily active
DK2OM	7072,0	1630	29	08	RUS		PSK2A	120	2600	AT3004D - Kaliningrad
DK2OM	7078,0	1333	14	08	FEa		FMCW		32k	Codar like ocean surface radar 2.6 sps - 7078 - 7110 kHz
DK2OM	7088,8	1935	17	08	S	SL0FRO	A1A			7088.830 kHz - cw-trainee, Sweden - SL0FRO - just for info!
DK2OM	7089,8	---	--	08	TUR CYP		PSK8	2400	2400	Link11 - SLEW - aircraft - west of Cyprus
DK2OM	7091,5	---	--	08	KAZ	„V“	A1A			loop - ident "V" - Almaty - Kazakhstan
DK2OM	7099,5	vt	dly	08	HRV	9A0ZG	FSK8	125	1750	ALE, "9A0ZG" "9A5EX1P" "9A0OS" - daily - just for info!
DK2OM	7102,0	vt	dly	08	TWN		FSK8	125	1750	ALE, "BV4AS" - just for info!
DK2OM	7102,0	vt	dly	08	HRV SUI D	9A0MIL	FSK8	125	1750	ALE, "9A0MIL" "9A2KS" "HB9MHB" "9A0ZG" "9A4OS" "DK0ESD" - just for info!
DK2OM	7110,0	vt	dly	08	HRV	9A0ALE	FSK8	125	1750	ALE, "9A0ALE" - just for info
DK2OM	7120,0	vt	dly	08	SOM		A3E		9k	<b>Radio Hargaysa - Somalia - daily - even audible in Australia and Japan</b>
DK2OM	7122,0	---	--	08	FEa	V	A1A			loop "V"
DK2OM	7123,0	2035	25	08	RUS		FMCW		13k	OTH radar Contayner - 50 sps - Gorodezh
DK2OM	7137,0	vt	dly	08	TWN		FSK8	125	1750	ALE, "CBIUN" "CBWPC"

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
							LSB			“CQYTX” “CAPLJ” “CTFOJ” “CEGTO” “CSNYI” “CEIPN” “CRXWT”- Taiwanese navy – daily
DK2OM	7150,0	1940	14	08	FEa		FMCW		32k	Codar like ocean surface radar 2.6 sps – 7150 – 7182 kHz
DK2OM	7162,0	1420	02	08	RUS		F1B	75	250	Kaliningrad – “RDL QCZ”
DK2OM	7163,0	---	--	08	UKR		A3E			encrypted MSGs - SZRU in Rivne
DK2OM	7164,0	0842	18	08	RUS		PSK2A	120	2600	AT3004D - Moscow
DK2OM	7183,0	vt	dly	08	SUI		FSK8	125	1750	ALE, “HB9MHB” – just for info!
DK2OM	7185,5	0740	24	08	D HRV		FSK8	125	1750	ALE, “9A5EX” “DK0ESD” just for info - daily
DK2OM	7191,5	1320	21	08	D		PSK8	2400	2400	Stanag-4285 – 600 bps long – area of Wuerzburg
DK2OM	7197,0	vt	dly	08	TUR	no ITU	FSK8	125	1750	ALE, “206102” “318013” “328013” “355013” “365013” “329018” “308013” “331730” “355013” “337013” “381013” “311013” Turkish organisations and Turkish Civil Defense - source: DL8AAM – daily, various times
DK2OM	7205,0	1940	02	08	IRN		A3E		20k	Voice of Iran with splatters down to 7195 kHz and up to 7215 kHz – 1920 – 1950 utc daily
DK2OM	7205,0	2005	27	08	F	RFI	A3E		40k	Radio France International splattering down to 7185 kHz
DK2OM	10100,8	ady	dly	08	D		F1B	50	450	Baudot - German Weatherservice – legal!
DK2OM	10101,0	1854	08	08			USB			traffic in Arabic voice
DK2OM	10101,2	0859	08	08	Euro pe		F1B	184.6	850	ARQ-E – idling – disturbing F1B German Weatherservice
DK2OM	10110,0	vt	dly	08	SNG	no ITU	FSK8	125	1750	ALE, “CN6” “68” – Singapore Navy - Changi Naval Base
DK2OM	10110,0	1845	05	08	E		USB			Spanish fishery
DK2OM	10113,0	vt	vd	08	TUN	no ITU	FSK8	125	1750	ALE, “TUD” “STAT5” “STAT154”
DK2OM	10114,0	vt	dly	08	ALG	no ITU	FSK8	125	1750	ALE, “BSF” “ZEN” “CM2OR2”
DK2OM	10114,8	0745	09	08	RUS		F1B	100	1000	CIS14 – Moscow - daily
DK2OM	10115,0	vt	dly	08	MRC	no ITU	FSK8	125	1750	ALE, “100” “114” “201” “XXZ” – Western Sahara
DK2OM	10116,5	---	--	08	AFS		F7D	54.3	2120	MHF50 – 33 tones - South African navy
DK2OM	10120,0	vt	dly	08	ALG	no ITU	FSK8	125	1750	ALE, “CM6” “01012016”
DK2OM	10120,0	1525	04	08	RUS		PSK2A	120	2600	AT3004D - Moscow
DK2OM	10123,0	vt	dly	08	ALG	no ITU	FSK8	125	1750	ALE, “CM3” “COF” “BSF” “CM2” “ESA” – Algerian Airforce
DK2OM	10123,0	1632	26	08	FEa		USB			Far East male persons
DK2OM	10124,3	1607	26	08	CHN		PSK4A	75	2250	10124.275 kHz center - PRC4+4 – traffic and idle
DK2OM	10126,0	1530	03	08	RUS		PSK2A	120	2600	AT3004D - Severomorsk
DK2OM	10129,0	vt	dly	08	ALG	no ITU	FSK8	125	1750	ALE, “CM1” “CTF” “772”
DK2OM	10131,0	1416	05	08	RUS		F1B	75	250	Irkutsk
DK2OM	10131,2	1841	14	08	FEa		USB			Far East pirates
DK2OM	10132,0	0932	15	08	F		USB			French amateurs not respecting bandplans
DK2OM	10133,0	0834	29	08	CIS		PSK2A	120	2600	AT3004D -
DK2OM	10135,0	1944	14	08	FEa		FMOP		50k	Far East OTHR – 10135 – 10185 kHz – 43 sps
DK2OM	10136,0	vt	dly	08	ALG	no ITU	FSK8	125	1750	ALE, “CM3” “BLD” “CNC” “TF2”
DK2OM	10136,0	1838	14	08	RUS		F1B	50	200	Far East Russia – also 31.08.2016 at 1014 utc



DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	10142,0	1307	28	08	AUS		FMOP		10k	Australian burst radar JORN – 20 sps – 5.4 sec bursts - intro tone – 10137 – 10147 kHz
DK2OM	10144,0	ady	dly	08	D	DK0WCY	A1A			10144.000 kHz - DK0WCY – German aurora beacon – just for info!
DK2OM	10145,5	vt	dly	08	SUI	HB9MHB	FSK8	125	1750	ALE, “HBMHB” - just for info - daily
DK2OM	10145,5	vt	dly	08	TWN AUS	BV4AS	FSK8	125	1750	ALE, “BV4AS” “VK4SAA” – just for info!
DK2OM	13925,0	1717	06	08	RUS		FMCW		13k	OTH radar Contayner - 50 sps – Gorodezh – splattering up to 14500 kHz
DK2OM	13993,0	1845	31	08	RUS		FMCW		160k	OTH radar Contayner - 50 sps – Gorodezh – splattering +/- 80 kHz
DK2OM	14000,0	vt	vd	08	FEa		USB			pirates from Java Sea - daily
DK2OM	14000,0	2001	10	08	E		USB			Spanish fishery
DK2OM	14000,0	2040	11	08	B		USB			pirates from Brazil
DK2OM	14000,0	1905	15	08	MRC		USB			Moroccan fishery – also 71.08.2016 at 1920 utc
DK2OM	14002,0	1000	29	08			PSK2	120	2600	AT3004D – submode idle
DK2OM	14008,0	0749	06	08	RUS		F1B	50	250	Moscow
DK2OM	14015,0	1500	24	08	CHN		FSK8	125	1750	ALE, “714” “871” - China
DK2OM	14021,3	1307	18	08	CHN		PSK4	75	2250	14021.275 kHz center - PRC4+4 – traffic “TIAW de VKGW” and idle
DK2OM	14026,0	0708	03	08	RUS		PSK2A	120	2600	AT3004D – Moscow – also 25.08.2016 at 0937 utc
DK2OM	14030,0	vt	vd	08	CHN		FSK8	125	1750	ALE, “Y” “473” “853”
DK2OM	14048,0	0712	03	08	RUS		FMCW		13k	OTH radar Contayner - 50 sps – Gorodezh
DK2OM	14090,0	1752	05	08	RUS		FMCW		13k	OTH radar Contayner - 50 sps Gorodezh
DK2OM	14100,0	vt	dly	08	ALG	no ITU	FSK8	125	1750	ALE, “6206” “6204” “6212” “6202” “6203” “6207” “6217” “MTL” “IJ” – Mauritanian border – daily, all day
DK2OM	14100,0	---	--	08	F		FMCW		20k	French OTH burst radar, 6 sps, similar Codar sounding, South France
DK2OM	14108,0	0836	09	08	RUS		A1A			“BXCS de 9KHQ” - RUS MIL area of Moscow – many spurious emissions
DK2OM	14109,0	vt	dly	08	TWN	HAM	FSK8	125	1750	ALE, “BV4AS” – just for info!
DK2OM	14109,0	1600	01	08	INS	HAM	FSK8	120	1750	ALE, “YD00XH3” – just for info!
DK2OM	14109,0	1010	06	08	S HRV D		FSK8	125	1750	ALE, “SM3FXL” “9A4OS” “9A3BRV” “DK0ESD” - just for info!
DK2OM	14111,0	1000	16	08	RUS		FMCW		13k	OTH radar Contayner - 50 sps – Gorodezh
DK2OM	14116,0	0842	09	08	RUS		F1B	75	250	Moscow – also 19.08.2016 at 0858 utc
DK2OM	14116,0	1245	31	08	RUS		F1B	50	250	Moscow – many splatters
DK2OM	14118,0	1005	18	08	RUS		PSK2A	120	2600	AT3004D - Moscow
DK2OM	14122,0	1250	09	08	RUS		FMCW		13k	OTH radar Contayner - 50 sps – Gorodezh
DK2OM	14122,0	1304	19	08	RUS		FMCW		20k	OTH radar Contayner - 50 sps – Gorodezh – splatters covering the whole band
DK2OM	14139,0	1335	26	08	RUS		FMCW		13k	OTH radar Contayner - 50 sps – Gorodezh
DK2OM	14148,5	1323	02	08	RUS		F1B	600	600	DPRK-FSK-600 – North Korean emba Moscow
DK2OM	14160,0	vt	dly	08	MRC		FSK8	125	1750	ALE, “9204” “9228” “9236”
DK2OM	14192,0	vt	dly	08	RUS		F1B	50	500	RUS navy Kaliningrad - daily

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
								75 50 100 100	500 200 500 200	
DK2OM	14200,0	1343	03	08	RUS		FMCW		13k	OTH radar Contayner - 50 sps Gorodezh – on 14574 with spurious down to 14200 kHz
DK2OM	14201,8	0852	02	08	CHN		PSK2	75	2200	PRC 16 tone modem – USB mode – pilot tone 450 Hz - RF 14200.0 kHz - China – Shanghai - daily
DK2OM	14205,0	vt	dly	08	CHN	no ITU	FSK8	125	1750	ALE, “505” “822”
DK2OM	14221,0	---	--	08	KGZ		F1B	50	200	CIS-50-50 - Bishkek – daily
DK2OM	14239,0	---	--	08	CHN		PSK4	60	2350	PRC 30 tone modem – LSB mode – LSB QRG – pilot tone 450 Hz
DK2OM	14242,0	1006	18	08	RUS		PSK2A	120	2600	AT3004D – Novosibirsk
DK2OM	14247,0	1409	05	08	RUS		FMCW		13k	OTH radar Contayner - 50 sps Gorodezh – long lasting
DK2OM	14260,0	1507	30	08	RUS		FMCW		10k	OTH burst radar Contayner - 10 sps - Gorodezh
DK2OM	14260,0	vt	dly	08	SRB	YU1BI	FSK8	125	1750	ALE, “YU1BI” – just for info!
DK2OM	14262,0	0730	17	08	FEa		FMCW		10k	OTHR - 50 sps – 5 sec bursts
DK2OM	14268,0	1005	25	08	RUS		FMCW		13k	OTH radar Contayner - 50 sps Gorodezh
DK2OM	14272,0	---	--	08	RUS	RCV	A1A			RUS Navy Sevastopol
DK2OM	14292,0	0713	03	08	RUS	D8M	A1A			encrypted CW - Moscow
DK2OM	14295,0	vt	dly	08	SRB	YU1BI	FSK8	125	1750	ALE, “YU1BI” – just for info!
DK2OM	<b>14295,0</b>	<b>0830</b>	<b>11</b>	<b>08</b>	<b>TJK</b>		<b>A3E</b>		<b>9k</b>	<b>3<sup>rd</sup> from Radio Tajik on 4765 kHz – daily, all day</b>
DK2OM	14301,8	---	--	08	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	08	TWN		FSK8	125	1750	ALE, “BV4”
DK2OM	14331,4	1323	03	08	RUS		F1B	600	600	DPRK-FSK-600 – North Korean emba Moscow
DK2OM	14334,0	vt	vd	08	CHN	no ITU	FSK8	125	1750	ALE, “249” “255” “763”
DK2OM	14340,0	1245	01	08	RUS		PSK2A	120	2600	AT3004D – Vladivostok with spurious emissions +/- 35 kHz and +/- 70 kHz - daily
DK2OM	14340,0	1003	31	08	CHN		FSK8	125	1750	ALE, “106” “591”
DK2OM	14346,0	vt	dly	08	THA	HS0ZEA	A1A			HS0ZEA beacon – 14345.950 kHz - every 5 minutes – daily - just for info!
DK2OM	14346,0	vt	dly	08	POR		FSK8	125	1750	ALE, “CT2IXQ” just for info – various times, daily
DK2OM	<b>14347,0</b>	<b>0800</b>	<b>16</b>	<b>08</b>	<b>UKR</b>		<b>A3E</b>			<b>female voice with encrypted msgs – figures – “SZRU” = Foreign Intelligence Service of Ukraine in Rivne</b>
DK2OM	14351,7	---	--	08	E		OFDM PSK4A	30	2700	OFDM 73 + intro tone – HFD+VL - experimental transmissions – Las Palmas – just for info!
DK2OM	<b>18080,0</b>	<b>0600</b>	<b>dly</b>	<b>08</b>	<b>TWN</b>		<b>A3E/BC</b>			<b>Sound of Hope – Taiwan and Chinese BC jammer – daily at 06 utc and later</b>
DK2OM	18080,0	1020	28	08	TUR		FMCW		20k	OTH radar West-Turkey – 50 sps
DK2OM	18090,0	1511	30	08	TUR		FMCW		20k	OTH radar – 50 sps - Turkey
DK2OM	18100,0	vt	dly	08	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	08	POR	CT2GOY	FSK8	125	1750	ALE, “CT2GOY” – just for info!
DK2OM	18107,0	---	--	08	RUS	RDL	F1B	50	200	CIS-50-200 - Moscow – idle and

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										traffic – Russian navy – various days and times – shared band!
DK2OM	18117,5	vt	vd	08	POR	CT2IXQ	FSK8	125	1750	ALE, “CT2IXQ” – just for info
DK2OM	18140,0	vt	dly	08	SRB	YU1BI	FSK8	125	2600	ALE, “YU1BI” – just for info!
DK2OM	18150,0	0811	02	08	RUS		F1B	100	1000	harmonic from 9075 (100 Bd, 500 Hz) - Kaliningrad
DK2OM	21000,0	1242	31	08	INS		USB			Indonesian pirates - daily
DK2OM	21000,0	---	--	08	B		USB			<b>Brazilian pirates – Rio de Janeiro with North Brazil – very often</b>
DK2OM	21000,0	---	--	08	SDN		USB			<b>MFA Sudan – Khartoum with emba Yemen – voice traffic</b>
DK2OM	21000,0	---	--	08	F		FMCW			French OTH burst radar – every 15 minutes – South France
DK2OM	21000,0	1458	23	08	UKR		USB			male voice spelling figures – UKR MIL
DK2OM	21002,2	---	--	08	SDN	!0000 !9999 !8888	F1B	100	170	<b>21002.15 kHz - Pactor 1 encrypted – MFA Sudan – Khartoum with emba Yemen</b>
DK2OM	21096,0	vt	dly	08	INS	YD00XH	FSK8	125	1750	ALE, “YD00XH3” – daily, various times - just for info!
DK2OM	21096,0	1219	27	08	G		FSK8	125	1750	ALE, “M1DFO” – just for info!
DK2OM	21131,0	vt	vd	08	CHN	no ITU	FSK8	125	1750	ALE, “A92” “L02” – Chinese diplo
DK2OM	21145,0	vt	dly	08	MRC	no ITU	FSK8	125	1750	ALE, “B301”, “C3”, “IR4” “T4” “E4” “A2” “CD” “K3” “KB2” “J5” “GS4” “R3” – various times, daily
DK2OM	21145,8	1418	05	08	I	IZ3DVW	A1A			IZ3DVW beacon – 21145,790 kHz – daily, all day - not coordinated with IARU
DK2OM	21160,0	---	--	08	RUS		F1B	100	2000	4th from 5290 kHz (500 Hz shift) – St. Peterburg
DK2OM	21190,0	---	--	08	RUS		F1B	100	1000	harmonic from 10595 kHz - Moscow - daily
DK2OM	21318,5	1058	18	08	BGD		F1B	600	600	DPRK-FSK-600 - Bangladesh
DK2OM	21400,0	---	--	08	RUS		F1B	50	2000	harmonic from 5350 kHz – area of Moscow - daily
DK2OM	21401,5	1201	18	08	CHN		PSK4A	75	2250	PRC4+4
DK2OM	21409,5	0800	31	08	RUS		F1B	100	2000	F1B 100 / 2000 - CIS14 – harmonic from 10704.75 - Jekaterinburg, RUS - daily
DK2OM	21436,0	---	--	08	RUS		PSK2A	120	5200	AT3004D – harmonic from 10718.0 kHz - Sevastopol
DK2OM	21438,0	vt	dly	08	RUS	RCV	A1A			RIP90, RCV, RGX94 - RUS Navy Sevastopol - daily
DK2OM	21446,0	ady	dly	08	THA	HS0ZEA	A1A			HS0ZEA beacon – every 5 minutes - just for info!
DK2OM	25000,0	ady	dly	08	FIN		A3E			time signal Helsinki – just for info – carrier on 25000 – dots on 25001 and 24999 – daily, all day – just for info!
DK2OM	28000,0	vt	vd	08	B		A3E			<b>Brazilian CBers – 28000 – 28325 – daily, all day</b>
DK2OM	28000,0	vt	dly	08	CIS		F3E			<b>28000 – 29700 numerous CIS taxi nets – no change</b>
DK2OM	28000,0	2045	04	08	I		A3E			Italian CBers – also 12.08.2016 at 1615 utc
DK2OM	28000,0	1927	11	08	E		USB			Spanish CBers
DK2OM	28010,1	1350	07	08	POR		F1B	51	300	F1B bursts –west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28025,0	---	--	08	POR		F1B	51	300	F1B bursts – 28025.050 kHz - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28030,0	---	--	08	POR		F1B	51	340	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										buoys - daily
DK2OM	28045,0	---	--	08	POR		F1B	51	280	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28050,0	---	--	08	POR		F1B	51	300	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28051,5	---	--	08	POR		F1B	51	300	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28060,0	---	--	08	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28065,1	---	--	08	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28065,8	1308	05	08	GAB		A3E		980	carrier and dots in USB and LSB, bursts every 60 sec – carrier – Gabon – daily and all day
DK2OM	28075,0	---	--	08	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28085,0	1951	09	08	POR		F1B	51	300	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28090,1	1926	09	08	POR		F1B	51	320	F1B bursts - 28100.780 kHz - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28100,0	2047	04	08	I		F3E LSB			Italian CBers
DK2OM	28100,2	---	--	08	POR		F1B	51	300	F1B bursts - 28100.780 kHz - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28102,1	---	--	08	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28115,0	0910	18	08	E		A3E			Spanish CBers
DK2OM	28125,0	---	--	08	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28146,0	vt	vd	08	ARG B		FSK8	125	1750	ALE, “LU8EX” “PY2TI” “DL1” – just for info!
DK2OM	28165,0	1505	06	08	RUS		F3E			RUS taxi - daily
DK2OM	28175,0	0807	14	08	RUS		F3E			RUS taxi - daily
DK2OM	28200,0	---	--	08	POR		F1B	51	330	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28215,0	1833	05	08	RUS		F3E			RUS taxi - daily
DK2OM	28224,4	---	--	08	GAB		A3E			carrier and dots +/- 770 Hz - bursts every 60 sec – Gabon – daily and all day
DK2OM	28249,6	1929	01	08	GAB		A3E		1380	carrier and dots +/- 745 Hz - bursts every 60 sec – Gabon – daily and all day
DK2OM	28250,5	1927	08	08	GAB		A3E		1000	carrier and dots +/- 500 Hz - bursts every 60 sec – Gabon – daily and all day
DK2OM	28275,0	1720	18	08	RUS		F3E			RUS taxi
DK2OM	28275,1	---	--	08	AF		F1B	51	320	F1B bursts -Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28312,5	vt	vd	08	POR	CT2IXQ	FSK8	125	1750	ALE. “CT2IXQ” – just for info
DK2OM	28315,0	---	--	08	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28335,0	1852	09	08	E		F3E			Spanish CBers with roger beeps talking about echo-microphones
DK2OM	28345,1	---	--	08	GAB		A3E		1060	carrier and dots +/- 530 Hz -

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										bursts every 60 sec – Gabon – daily and all day
<b>DK2OM</b>	<b>28435,0</b>	----	--	<b>08</b>	<b>E</b>		<b>F1B</b>	<b>81.9</b>	<b>140</b>	<b>Datawell-buoy “Waverider” – 28435.040 kHz – Costa del Sol – Malaga</b>
<b>DK2OM</b>	28459,8	----	--	08	GAB		A3E		1060	carrier and dots +/- 530 Hz - bursts every 60 sec – Gabon – daily and all day
<b>DK2OM</b>	28459,9	---	--	08	GAB		A3E		1060	carrier and dots +/- 530 Hz - bursts every 60 sec – Gabon – daily and all day
<b>DK2OM</b>	<b>28499,8</b>	---	--	<b>08</b>	<b>MEa</b>		<b>F1B</b>	<b>81.9</b>	<b>140</b>	<b>Datawell-buoy “Waverider” – 28499.875 kHz – Persian Gulf</b>
<b>DK2OM</b>	28701,1	---	--	08	GAB		A3E		1056	carrier and dots +/- 528 Hz - bursts every 60 sec – Gabon – daily and all day
<b>DK2OM</b>	28745,3	1706	02	08	GAB		A3E		1060	carrier and dots +/- 530 Hz - bursts every 60 sec – Gabon – daily and all day
<b>DK2OM</b>	28751,2	---	--	08	GAB		A3E		1080	carrier and dots +/- 540 Hz - bursts every 60 sec – Gabon – daily and all day
<b>DK2OM</b>	28751,3	---	--	08	GBN		A3E		1040	carrier and dots +/- 520 Hz - bursts every 60 sec – Gabon – daily and all day
<b>DK2OM</b>	28801,5	---	--	08	GBN		A3E		1090	carrier and dots +/- 545 Hz - bursts every 60 sec – Gabon – daily and all day
<b>DK2OM</b>	28845,5	---	--	08	GAB		A3E		1060	carrier and dots +/- 530 Hz - bursts every 60 sec – Gabon – daily and all day
<b>DK2OM</b>	28901,1	---	--	08	GAB		A3E		1056	carrier and dots +/- 528 Hz - bursts every 60 sec – Gabon – daily and all day
<b>DK2OM</b>	28960,0	0830	02	08	IRN		FMOP		55k	radar Iran – burst mode – 150 and 313 sps - daily
<b>DK2OM</b>	29114,0	---	--	08	RUS		F1B	100	2000	harmonic from 14557.0 kHz - Moscow
<b>DK2OM</b>	<b>29249,9</b>	<b>1651</b>	<b>02</b>	<b>08</b>	<b>E</b>		<b>F1B</b>	<b>81.9</b>	<b>140</b>	<b>Datawell-buoy “Waverider” – 29249.880 kHz – Spain Fuerteventura - daily, all day</b>
<b>DK2OM</b>	<b>29375,0</b>	---	--	<b>08</b>	<b>I</b>		<b>F1B</b>	<b>81.9</b>	<b>140</b>	<b>Datawell-buoy “Waverider” – 29374.898 kHz – Gallipoli, South Italy - daily, all day</b>
<b>DK2OM</b>	<b>29387,5</b>	---	--	<b>08</b>	<b>IND</b>		<b>F1B</b>	<b>81.9</b>	<b>140</b>	<b>Datawell-buoy “Waverider” – 29387.460 kHz – Indian NW coast, close to Pakistan - daily, all day</b>
<b>DK2OM</b>	<b>29400,0</b>	---	--	<b>08</b>	<b>USA</b>		<b>F1B</b>	<b>81.9</b>	<b>140</b>	<b>Datawell-buoy “Waverider” – 29400.070 kHz - USA north-east coast – NY daily, all day</b>
<b>DK2OM</b>	<b>29450,0</b>	---	--	<b>08</b>	<b>MRC</b>		<b>F1B</b>	<b>81.9</b>	<b>140</b>	<b>Datawell-buoy “Waverider” – 29449.895 kHz - area of El Aaiun – Morocco - daily, all day</b>
<b>DK2OM</b>	<b>29500,0</b>	<b>1850</b>	<b>09</b>	<b>08</b>	<b>G</b>		<b>F1B</b>	<b>81.9</b>	<b>140</b>	<b>Datawell-buoy “Waverider” – area of Gibraltar – daily, all day</b>
<b>DK2OM</b>	<b>29525,0</b>	---	--	<b>08</b>	<b>MRC</b>		<b>F1B</b>	<b>81.9</b>	<b>140</b>	<b>Datawell-buoy “Waverider” – 29524.990 kHz - Agadir - Morocco – daily, all day</b>
<b>DK2OM</b>	<b>29625,0</b>	---	--	<b>08</b>	<b>USA</b>		<b>F1B</b>	<b>81.9</b>	<b>140</b>	<b>Datawell-buoy “Waverider” – 29625.024 kHz - USA north-east coast – daily, all day</b>
<b>DK2OM</b>	29685,0	1314	05	08	I		VFT		2300	Italian MIL - Brescia
<b>DK2OM</b>	29699,5	1314	05	08	I		VFT		1600	Italian MIL - Brescia

## IRTS – Ireland – EI3GYB (Michael)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	DETAILS
IRTS	3490	1310	02	08	POR or MM		USB	2 Portuguese fishermen. Note: No HAM frequency- just for info.
IRTS	3498	0820	08	08	E or MM		USB	2 male Spanish fishermen. Very strong. Bad audio. Signal bleeds across the spectrum up to 3500 KHz into HAM band.
IRTS	3512	1740	04	08	E or MM		USB	2 male Spanish fishermen.
IRTS	3535	0915	09	08	UK or MM		USB	Scottish fishermen. 2 male voices, very strong. "Talk to you soon again! "
IRTS	3535	1240 to 1308	13	08	E or MM		USB	2 male Spanish fishermen. Very strong signals.
IRTS	3536	1220 to 1225	15	08	UK or MM		USB	2 male Ulster fishermen. " See you later ! "
IRTS	3536	1445	24	08	UK or MM		USB	Ulster fishermen, very strong. One male, keeps calling for others. No answer.
IRTS	3536	0745 to 0800	25	08	UK or MM		USB	Ulster fishermen. 2 male voices. Talking about boxing. One of them is always whistling a funny tune. Name: Ed. From both ships loud motor noise.
IRTS	3558	1615	11	08	F or MM		USB	2 French male fishermen
IRTS	3560	1852	03	08	HOL or MM		USB	2 male Dutch fishermen
IRTS	3560	1600	25	08	E or MM		USB	2 male Spanish fishermen.
IRTS	3560	0845 to 0915	27	08	POR or MM		USB	2 male Portuguese fishermen. Very strong signals.
IRTS	3598	2030	10	08	HOL or MM		USB	Dutch fishermen in a net. Several male voices. All signals very strong.
IRTS	3636	1440	22	08	E or MM		USB	2 male Spanish fishermen, very strong signals.
IRTS	3675	0850	17	08	F or MM		USB	Net of several French fishermen
IRTS	3677	1935	11	08	HOL or MM		USB	2 male Dutch fishermen.
IRTS	3698	1640	06	08	IRL or MM		USB	2 Irish fishermen. West of Ireland accent. Shannon Coastguard on VHF in background. " I'll talk to you later ! "
IRTS	3698	1852 to 2100	10	08	IRL or MM		USB	2 male Irish fishermen. Waterford accent. Endless monologues with loads of " Fuck " and " Shite " from each side in return. Motor noise clearly audible from both boats. One fisher is called David. One of them might spend the night in the harbour due to bad WX. Mentioned : Dromore
IRTS	3698	1150 to 1222	13	08	IRL or MM		USB	2 male Irish fishermen, South Irish accent . Very strong signals. VHF announcements in the background. One of them recently spent the night in a place called "Ballintaggart House " in Dingle. Name mentioned of one of them was Sean. "That's the story, Morning Glory ! " ( Name of one of the ships ??? )
IRTS	3735	1745	06	08	POR or MM		USB	2 Portuguese fishermen. Very loud.
IRTS	3739	0815	04	08	E or		USB	2 male Spanish fishermen. Very strong signals.

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	DETAILS	
					MM			Loud motor noise in the background.	
IRTS	3739	1625	11	08	POR or MM		USB	2 male Portuguese fishermen. Very loud.	
IRTS	5280	0930	17	08	F or MM		USB	Several French fishermen, all very strong. Motor noise audible. Right on Irish HAM spot frequency and also inside UK allocation.	
IRTS	5280	0010	26	08	F or MM		USB	2 male French fishermen, using an Irish HAM spot frequency for 5 MHz.	
IRTS	5327	1605	25	08	F or MM		USB	2 male French fishermen. Inside 5 MHz allocation for several European countries, like BUL, DNK, NOR or others.	
IRTS	5345.2	0930 to 1000	11	08	F or MM		USB	2 male French fishermen. Motor noise in the background. Frequency is in the HAM block allocation of several countries, i.e. NOR, DNK, ISL and others.	
IRTS	5345.2	1325	14	08	F or MM		USB	2 male French fishermen. Inside HAM allocation for some European countries, ie. BUL, CRO, SVK and others.	
IRTS	5354	2100 to 2120	31	08	E or MM		USB	2 male Spanish fishermen. Loud motor noise in the background. Strong signals. Frequency is inside the new HAM 5 MHz allocation, which is already in use in several countries.	
IRTS	5360	2050	16	08	E or MM		USB	2 male Spanish fishermen. Inside the new international HAM allocation on 5 MHz.	
IRTS	5362.5	0925 to 1115	08	08	F or MM		USB	2 French fishermen, on and off for hours. Frequency is in the new international 5 MHz allocation.	
IRTS	5400	0550	09	08	E or MM		USB	2 Spanish fishermen, huge signals. Frequency is allocated to Irish Hams on 5 MHz.	
IRTS	5400	0900	17	08	E or MM		USB	2 male Spanish fishermen. Right on an Irish HAM spot frequency.	
IRTS	7000	0305	04	08	RUS		AM	Buzzer	
IRTS	7050	2100	24	08	UKR /RUS		LSB	Russian - Ukrainian radio war with music, slogans, BC transmissions.	
IRTS	7075	2321	04	08				Radar from 7075 to 7100 KHz. Still running at 0415z.	
IRTS	7090	0400	10	08			USB	Net of Arab voices. Several male voices in lively discussion. "Inscha'Allah !"	
IRTS	14028	0740	03	08				RADAR from 14028 to 14063 KHz.	
IRTS	14058	1735	03	08				Radar from 14058 to 14068 KHz.	
IRTS	14089	1010	13	08				Radar from 14089 to 14130 KHz.	
IRTS	14093.5	1215	15	08				Radar from 14093.5 to 14111 KHz. Short busts.	
IRTS	14119	2130	21	08				Radar from 14119 to 14132 KHz.	
IRTS	14192	1015	02	08	RUS		FSK	RUS Navy Kaliningrad. Nearly all day long, any day.	
IRTS	14252	1310	03	08				Radar from 14252 to 14268 KHz. Strong, short bursts.	
IRTS	14254	2321	04	08				Radar 14254 to 14290 kHz	
IRTS	14341	1320	02	08			Digi	Strong digital signals. Probably DPR Korea in West Africa.	
IRTS	21297	1100	13	08				Radar from 21297 to 21318 kHz.	
IRTS	28105	1045	05	08	F		AM	French CBers. Several stations active.	
IRTS	28275	1300	05	08	I		FM	Italian language, male voices. Sounds like the HQ of a taxi company or delivery centre.	

### KARS – Kuwait – 9K2RR (Faisal)

### MRASZ – Hungary - HA7PL (Laci)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	DETAILS
MRASZ	3506.0	1936	24	8			PSK2		AT3004D
MRASZ	3524.0	1751	29	8			F1B	250	
MRASZ	3525.0	1934	31	8			PSK2		AT3004D

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	DETAILS
MRASZ	3543,0	1908	26	8			PSK2		AT3004D
MRASZ	3560,5	1936	10	8			PSK2		AT3004D
MRASZ	3563,0	1908	26	8			PSK2		AT3004D
MRASZ	3564,0	1932	1	8			F1B	250	
MRASZ	3564,0	1935	10	8			F1B	250	
MRASZ	3568,0	1749	29	8			F1B	200	
MRASZ	3588,0	1810	15	8			F1B	250	
MRASZ	3590,0	1934	1	8			LSB		italian male
MRASZ	3590,0	1901	15	8			PSK2		AT3004D
MRASZ	3595,0	1902	15	8			F1B	250	
MRASZ	3599,0	1936	1	8			???		sharp cracks, also on 5393 kHz, hrd: 5
MRASZ	3599,0	1748	29	8			A1A		"T8891 54T71 5T426"
MRASZ	3603,0	1857	26	8			F1B	250	
MRASZ	3608,0	2019	31	8			F1B	200	
MRASZ	3618,0	1834	5	8			A1A		"NIDTT TVUGV UNKAG RÜYLI"
MRASZ	3618,0	1746	11	8			A1A		"I4AC 227 52 11 2T 35 227"
MRASZ	3624,0	2018	31	8			PSK2		AT3004D
MRASZ	3642,0	1932	10	8			A1A		"DKG7(2x) de 3A7D V" loop
MRASZ	3659,0	1907	26	8			F1B	200	
MRASZ	3660,0	1959	31	8			A1A		"VVV K" "QRJ K" "QYT4 K"
MRASZ	3692,5	1944	10	8			A1A		"9YO3 de WVHT QTC k"
MRASZ	3788,0	1938	1	8			PSK2		AT3004D
MRASZ	7000,0	1952	10	8			PSK2		AT3004D
MRASZ	7000,0	1827	18	8			A1A		"testing best dx+" somebody practise
MRASZ	7000,0	1746	26	8			LSB		ui male
MRASZ	7000,0	vt	dly	8	RUS		H3E	3,4 k	buzzer
MRASZ	7005,0	1824	18	8			A1A		"xxx xxx gyuj gyuj 87598 tre kotuj"
MRASZ	7008,0	756	8	8			F1B	250	
MRASZ	7010,0	1831	18	8			LSB		ui.language
MRASZ	7027,5	vt	dly	8	KAZ	"V"	A1A		beacon "V"
MRASZ	7046,0	1912	15	8			LSB		italian male, non ham
MRASZ	7050,0	vt	dly	8			LSB		russian/ukrainian, chaos, music, curse
MRASZ	7055,0	vt	dly	8			LSB		russian/ukrainian, chaos, music, etc
MRASZ	7058,0	0757	8	8			F1B	250	
MRASZ	7060,0	1908	10	8			PSK2		AT3004D
MRASZ	7076,0	1739	11	8			F1B	250	
MRASZ	7120,0	1836	4	8	SOM		A3E		Radio Harg. hrd: 11, 15, 18, 26, 29
MRASZ	7192,0	1838	18	8			PSK2		AT3004D
MRASZ	7193,8	1933	24	8			NON		
MRASZ	7205,0	1818	1	8			A3E		splatter down 10 k
MRASZ	7205,0	1928	31	8			A3E		splatter 5-10 kHz down
MRASZ	10108,0	0813	8	8			NON		
MRASZ	10114,7	0751	8	8			F1B	1000	
MRASZ	10118,0	1452	10	8			F1B	260	
MRASZ	10120,0	1439	4	8			PSK2		AT3004D
MRASZ	10131,0	0750	8	8			F1B	250	
MRASZ	10143,0	1415	22	8			F1B	250	
MRASZ	14000,6	0850	8	8			A1A		"TEST HB9DGP" continuously till 0852
MRASZ	14008,0	0745	8	8			F1B	250	
MRASZ	14017,0	1922	31	8			OTHR		14000-14034 kHz
MRASZ	14098,8	0858	8	8			A1A		"IZ0HCC/B (3X) JN61GP ROMA"
MRASZ	14110,0	0929	8	8			OTHR		14100-14120 kHz
MRASZ	14115,0	0934	8	8			ALE?		
MRASZ	14116,0	0901	19	8			F1B	250	
MRASZ	14192,0	1818	1	8			F1B	200	hrd: 8, 10
MRASZ	14192,0	1935	24	8			F1B	500	hrd: 25
MRASZ	14295,0	vt	dly	8	TJK		A3E		Radio Tajik, 3rd. Harmonic



## OEVSV – Austria – OE3GSA (Gerd)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
oevsv	14015.0	0526	15	08	BY	unid	J3E			chinese male voice
oevsv	14015.0	0607	19	08	unid	unid	J3E			mixed with dig. transmissions
oevsv	14050.0	0513	23	08	unid	unid	F3E			RTTY fast
oevsv	14050.0	0700	01	08	unid	unid	FMCW			OTHR
oevsv	18080.0	0735	01	08	BY		A3A			old friends - chinese BC
oevsv	18080.0	0526	15	08	BY		A3A			as allmost every day

## PZK – Poland – SP9BRP (Jan)

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

## REP – Portugal – CT4AN (Jose Francisco)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REP	3518	07.00	16	08	E		J3E-U			Spanish fishery
REP	3580	08.54	17	08	E		J3E-U			Spanish fishery, CRY2000 encryption
REP	3610	08.10	10	08	E		J3E-U			Spanish fishery
REP	3620	07.43	27	08	E		J3E U			Spanish fishery, CRY2000 encryption
REP	7000	18.10	12	08			BPSK			AT3004D modem
REP	7038	23.22	24	08	UKR	D	A1A			SEVASTOPOL
REP	7038	21.00	04	08	RUS	P	A1A			MURMANSK
REP	7039	21.42	14	08	RUS	C	A1A			MOSCOW
REP	7050	19.09	10	08	CHN		FMCW	10	160k	Chinese wide OTH radar
REP	7050	20.12	29	08	RUS		J3E-U			Russian BC rebroadcast, dit jammers
REP	7091	18.22	14	08	KAZ	V	A1A			ALMATY
REP	7095	22.05	17	08			A1A			Letter and numbers groups code
REP	7135	18.04	09	08	RUS		F1B	50	200	CIS36-50 mode
REP	10100	15.02	22	08	MRC		J3E-U			Morrocan fishery
REP	10100	23.18	04	08			A3E			Letters Station - 5 letters groups
REP	10101	07.42	11	08	MRC		J3E-U			Moroccan fishery
REP	10110	09.11	04	08			FMCW	50	20k	OTH radar
REP	10118	10.02	23	08			J3E-U			Unid arabic language
REP	10128	19.37	17	08	B		J3E-U			Brazilian comms, moved here from 10130
REP	10130	19.28	17	08	B		J3E-U			Brazilian comms, phone patch
REP	14000	09.01	18	08			J3E-U	100	170	SELCALL
REP	14008	10.51	07	08	RUS		F1B	50	250	CIS36, Russian mil
REP	14030	18.03	12	08	RUS		BPSK	120		Mil station
REP	14100	16.30	22	08	RUS		J3E-U			Russian language speech
REP	14120	07.13	12	08			FMCW		10k	Short burst OTH radar
REP	14192	09.15	28	08	RUS		F1B	50	250	CIS36, Russian mil
REP	14192	17.20	28	08	RUS		F1B	50	500	CIS50, Russian mil
REP	14265	09.23	19	08			FMCW			OTH radar
REP	18090	09.33	28	08			FMCW	50	20k	OTH radar
REP	18108	09.38	11	08	RUS		F1B	50	200	CIS36-50 modem
REP	21125	14.41	20	08	MRC		J3E-U			Fishermen
REP	21200	15.22	04	08			FMCW			OTH radar 50sps/20kHz
REP	24940	18.08	15	08			FMCW			OTH radar 50sps/20kHz
REP	28010	10.09	05	08	F		F1B	51	300	GPS buoy, west of Brest, France
REP	28010	18.56	08	08		BP	A1A			Drifnet
REP	28025	17.42	02	08	E		F1B	51	300	GPS Buoy, Bay of Biscay
REP	28025	17.42	02	08		NYA	A1A			Driftnet NYA
REP	28035	16.30	04	08	B		A3E			Brazilian CB'rs
REP	28045	19.19	21	08	B		J3E-U			Brazilian CB'rs
REP	28050	10.00	08	08			F1B	50	270	Enagal GPS buoy, Atlantic ocean
REP	28065	15.35	19	08	B		A3E			Brazilian CB'rs
REP	28065	17.31	22	08	POR		F1B	51	300	GPS buoy, off coast of Portugal, Peniche
REP	28070	11.10	08	08	RUS		F3E			Taxi dispatcher
REP	28102	19.30	28	08	SRL		F1B	51	300	GPS Buoy, off coast Sierra Leone
REP	28102	10.31	05	08	POR		F1B	51	300	GPS buoy, off coast Portugal. Sagres

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REP	28105	15.34	19	08	B		A3E			Brazilian CB'rs
REP	28150	11.07	08	08	RUS		F3E			Russian taxis dispatchers
REP	28175	15.36	19	08	B		A3E			Brazilian CB'rs
REP	28285	15.36	19	08	B		A3E			Brazilian CB'rs
REP	28305	15.37	19	08	B		A3E			Brazilian CB'rs
REP	29150	11.28	11	08			FMCW			OTH radar
REP	29150	11.53	06	08			F1B	82	142	Datawell Waverider buoy
REP	29175	10.01	30	08	RUS		F3E			Russian YL taxi dispatcher

### RSGB - Great Britain – M0VRR (Vaughan)

### SRAL – Finland – OH2BLU (Pekka)

Society	QRG	TIME	DD	MM	CTRY	IDENT	MODE	BD	SH	REMARKS
SRAL	6998,0	h24	dly	8	RUS	UiTone	R3E			125 Hz tones
SRAL	7000,0	1350	17.	8		UiMUX	PSK2	120	2600	
SRAL	7001,0	0815-0830	11.	8		UiMUX	PSK2	120	2600	
SRAL	7008,0	0500-1930	4. 8. 9.	8		UiPTR	F1B		250	
SRAL	7010,0	1345-1440/	2.	8	RUS	P	A1A			
SRAL	7010,0	1440-1510	27.	8		UiMUX	PSK2	120	2600	
SRAL	7016,0	0815-1620	8. 9. 23.	8		UiPTR	F1B		250	
SRAL	7019,0	1130	28.	8		UiPTR	F1A/ NON		250	
SRAL	7020,0	0500-1630	*	8		UiPTR	F1B		250	Days: 3. 15. 17. 18. 19. 27.
SRAL	7022,0	1120-1200	16.	8		UiMUX	PSK2	120	2600	
SRAL	7027,5	/1400-0200	dly	8	UZB	V	A1A			
SRAL	7039,0	0745-1500	6. 7. 20.	8	RUS	C	A1A			Moscow
SRAL	7039,5	0900-1230	6. 7.	8		UiCW	A1A			Hand keying "T T"
SRAL	7058,0	0345-1900	1. 2. 21.	8		UiCarr	N0N			
SRAL	7058,0	0800-1450	8. 18.	8		UiPTR	F1B		250	
SRAL	7060,0	0415-1000	4. 11.	8		UiMUX	PSK2	120	2600	
SRAL	7067,0	1805-1930	9.	8		UiPTR	F1B		250	
SRAL	7076,0	0400-1400	2. 11.	8		UiPTR	F1B		250	
SRAL	7087,0	1800-1830	9.	8		UiPTR	F1B			
SRAL	7099,0	1030-1050	19.	8		UiPTR	F1B		200	
SRAL	7113,0	0500-0537/	15.	8		UiMUX	PSK2	120	2600	
SRAL	7118,0	0945-1000	25.	8		UiMUX	PSK2	120	2600	
SRAL	7120,0	0320-0430/	dly	8	SOM	R.Hargeis a	A3E			
SRAL	7120,0	1500-1900/	dly	8	SOM	R.Hargeis a	A3E			
SRAL	7132,0	1745-1802/	22.	8		UiMUX	PSK2	120	2600	
SRAL	7160,0	1345-1500	17.	8		UiMUX	PSK2	120	2600	

Society	QRG	TIME	DD	MM	CTRY	IDENT	MODE	BD	SH	REMARKS
SRAL	7160,0	0645-1030	16.17.	8	RUS	RMW32	A1A			5F, 5BL
SRAL	7162,0	0930-1400	2.	8	RUS	UiPTR	F1B		250	
SRAL	7164,0	0830-0944/	13.18.	8		UiMUX	PSK2	120	2600	
SRAL	7169,0	1400	8.	8		UiPTR	F1B		250	
SRAL	7169,0	0815	16.	8		UiMUX	PSK2	120	2600	
SRAL	7172,0	0835	20.	8		UiMUX	PSK2	120	2600	
SRAL	7178,0	0830	6.	8		UiMUX	PSK2	120	2600	
SRAL	7182,0	0830-100	20.	8		UiMUX	PSK2	120	2600	
SRAL	7187,5	1515-1540/	5.	8		UiPTR	F1B		200	
SRAL	7192,0	1750-1810	18.	8		UiMUX	PSK2	120	2600	
SRAL	7200,0	/1000-1300/	dly	8	CHN	CNR1	A3E			Used as jammer on TWN
SRAL	7200,0	1300-1500/	dly	8	MMR	R Myanmar	A3E			
SRAL	7200,0	2300-2400/	dly	8	MMR	R Myanmar	A3E			
SRAL	7 MHz	1915-0500	*	8	RUS	29B6	FMCW			50Hz / 15 kHz, days: 11. 24. 28. (WebSDR 7 days)
SRAL	10 MHz	1115	22.	8	RUS	29B6	FMCW			50Hz / 15 kHz (WebSDR 7 days)
SRAL	14008,0	0800-1045	*	8	RUS	UiPTR	F1B/ NON		250	Days: 6. 7. 11. 20. 22.
SRAL	14026,0	0640-1040	3. 26.	8		UiMUX	PSK2	120	2600	
SRAL	14108,0	0750-1200	*	8	RUS	UiCW	A1A			MR 5F 5BL, days: 4. 5. 11. 20. 23. 30.
SRAL	14116,0	0615-1200	*	8	RUS	UiPTR	F1B		250	Days: 3. 5. 6. 11. 19.
SRAL	14118,0	0830	25.	8		UiMUX	PSK2	120	2600	
SRAL	14141,0	0920	11.	8		UiPTR	F1B		500	
SRAL	14177,0	0905-100	7. 11.	8		UiPTR	F1B			
SRAL	14192,0	0500-1900	dly	8	RUS	UiPTR	F1B		500/200	
SRAL	14221,0	2330-0600/	dly	8	KGZ	UiPTR	F1B		200	
SRAL	14242,0	0825	25.	8		UiMUX	PSK2	120	2600	
SRAL	14295,0	0230-1930	dly	8	TJK	R Tojikiston	A3E			3f 4765,00 kHz, Yangiyul TX
SRAL	14 MHz	0500-1505/	*	8	RUS	29B6	FMCW			50Hz / 15 kHz, days: 1. 3. 7. 13. 16. 19. 31.
SRAL	14 MHz	0400-1400	dly	8	RUS	UiOTHR	FMCW			10Hz / 15 kHz, 30 sec transmit with 16 min cycle
SRAL	18 MHz	0730-1145	*	8	CYP / TUR	UiOTHR	FMCW			25/50Hz / 20 kHz, days: 20. 26. 29. (WebSDR 10 days)
SRAL	21 MHz			8	CYP / TUR	UiOTHR	FMCW			25/50Hz / 20 kHz
SRAL	21438,0	/0830-1630	dly	8	RUS	RCV	A1A			
SRAL	24 MHz			8		UiOTHR	FMCW			No reports
SRAL	28160,0			8	IRN	UiOTHR	FMCW			307 & 870 Hz / 60 kHz – 300 kHz
SRAL	28960,0	0530-1900	*	8	IRN	UiOTHR	FMCW			150 & 313 Hz / 60 kHz , days: 4. - 6. 10. - 14. 16. 18. 23. - 25. 27.
SRAL	28 MHz	0700-0800	20.	8		UiOTHR	FMCW			25/50Hz / 20 kHz
SRAL	28 MHz	0515-1830	*	8	RUS	Taxi disp.	F3E			Days: 1. 2. 4. - 6. 10. - 16. 18. 23. 24. 26. 27. 29. 80 reports

## USKA – Switzerland – HB9CET (Peter)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
<b>80m band informational only! Primary allocation but shared with other also primary allocated services !</b>										
USKA	3503.5	2236	06	08		XSS	MFSK8	125	1750	MIL 188-141A
USKA	3525.0	2303	15	08			F1B	50	200	
USKA	3527.0	2221	14	08			F1B	50	200	almost daily
USKA	3532.0 VFO USB	2215	14	08			DQPSK	14x75	5k9	LINK 11 CLEW; often (STANAG 5511) mode
USKA	3549.0 VFO USB	2349	09	08			PSK8	2400	~2k7	MIL188-110A (Hybrid), preamble 4 tones, 450Hz spacing
USKA	3552.0	2235	03	08			J7D		2k7	CIS12 idling
USKA	3553.8	2149	01	08			G1D	2400	~2k4	Stanag 4285; PSK8 almost daily frame format mostly 600bps/long
USKA	3568.0	2352	09	08			F1B	75	200	
USKA	3569.0	2238	03	08			F1B	50	200	
USKA	3572.0	2255	15	08			F1B	75	250	
USKA	3578.0	2259	15	08			F1B	75	250	
USKA	3590.0	2357	09	08			J7D	12x120	2k7	BPSK; CIS12
USKA	3608.0	2224	14	08			F1B	50	200	almost daily
USKA	3610.0	2232	03	08			DQPSK	14x75	5k9	LINK 11 CLEW; (STANAG 5511) DSB mode
USKA	3610.0	2241	03	08			F1B	40.5	250	
USKA	3633.6	2359	09	08			PSK8	2400	~2k7	MIL188-110A (Hybrid), often preamble 4 tone PSK4
USKA	3637.0	2151	01	08			PSK8	2400	~2k7	STANAG 4285; often frame format 600bps/long
USKA	3788.0	2155	01	08			J7D	12x120	2k7	BPSK; CIS12
USKA	7008.0 VFO LSB	1102	31	08			J7D	12x120	2k7	BPSK; CIS12 (maybe DSB)
USKA	7008.0 VFO USB	1103	31	08			J7D	12x120	2k7	BPSK; CIS12 (maybe DSB)
USKA	7022.0	1042	16	08			J7D	12x120	2k7	BPSK; CIS12 often
USKA	7039.2	2115	06	08	RUS	F	A1A			Beacon F Vladivostok
USKA	7039.3	2120	06	08	RUS	K	A1A			Beacon K Petropavlovsk
USKA	7039.4	2117	06	08	RUS	M	A1A			Beacon M Magadan
USKA	7058.0	2247	03	08			F1B	75	200	often
USKA	7067.0	2339	09	08			F1B	75	240	
USKA	7110.0	2226	03	08			J7D	12x120	2k7	BPSK; CIS12
USKA	7120.0	1512	16	08	SOM		A3E		10k	Radio Hargaysa often
USKA	7149.5	1517	16	08			J7D	12x120	2k7	BPSK; CIS12
USKA	7186.0	2251	03	08			J7D	12x120	2k7	BPSK; CIS12
USKA	7200.0	2331	09	08			A3E		~10k	BC, lower sideband down to 7195 asian style music and voice
USKA	14008.0	1137	10	08			F1B	50	250	often
USKA	14048.0	0834	01	08			FMCW	50 sps	~13k	OTHR; occup. BW appx 30k
USKA	14090.0	0647	31	08			FMOP		10k	OTHR
USKA	14111.0	0947	16	08			FMCW	50 sps	~13k	OTHR; occup. BW appx 30k
USKA	14116.0	0819	19	08			F1B	75	250	often
USKA	14120.0	1239	09	08			FMCW	50 sps	~13k	OTHR; occup. BW appx 30k
USKA	14136.0	1448	07	08			FMCW	50 sps	~13k	OTHR; occup. BW appx 30k
USKA	14150.0	1510	16	08			FMOP	10 sps	~10k	OTHR; only short period
USKA	14190.0	1000	16	08			FMCW	67 sps	10k	OTHR; Bursts: BD 3.9s BRI 17s
USKA	14192.0	0831	01	08			F1B	50	200	
USKA	14192.0	1011	18	08			F1B	50	500	
USKA	14201.8	1527	04	08			BPSK	16x75	2k2	Burst system; 16 tones, 2 Pilottones
USKA	14221.0	2244	03	08			F1B	50	200	often
USKA	14240.0 VFO USB	1013	18	08			J7D	12x120	2k7	BPSK; CIS12 with carrier Pilottone at 3300Hz
USKA	14275.0	1547	05	08			FMOP	10 sps	~10k	OTHR; only short period
USKA	14303.5	2207	01	08			J7D	12x120	2k7	BPSK; CIS12
USKA	14340.0	0826	01	08			J7D	12x120	2k7	BPSK; CIS12 often
USKA	14341.0	0917	16	08			A3E		appx 3k	unident language; long lasting
USKA	18069.0	0911	16	08			FMCW	50 sps	20k	OTHR

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	18075.0	0956	09	08			FMCW	50 sps	20k	OTHR
USKA	18150.0	0809	19	08			F1B	100	1000	2 <sup>nd</sup> of 9075 kHz (100Bd 500Hz)
USKA	21145.0	0851	09	08		A2	MFSK8	125	1750	MIL 188-141A; LQA
USKA	21145.0	0855	09	08		C3	MFSK8	125	1750	MIL 188-141A
USKA	21145.0	0914	09	08		F301	MFSK8	125	1750	MIL 188-141A; LQA
USKA	21353.5	1501	16	08			F1B	600	600	ARQ system
USKA	21438.0	1659	10	08		RCV	A1A			letters and figures almost daily
USKA	28320.1	0943	09	08		SRT	A1A			Fishery buoy
USKA	28330.03	0946	09	08		MOR	A1A			Fishery buoy
USKA	29500.0	1308	09	08			F1B	81.92	140	Datawell buoy

### Veron – Netherlands – PA2GRU (Dick)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SHIFT	DETAILS
VERON	3519,0	20.20	18	8		UiPTR	F1B		Revs
VERON	3564,0	20.21	18	8		UiPTR	F1B		Revs
VERON	3608,0	20.23	18	8	CIS	UiPTR	F1B		Revs/Ptr
VERON	3772,0	20.25	18	8		UiPTR	F1B		Revs
VERON	7027,6	16.38	26	8	?	V	A1A		slow v's (16 per minute). Goes on for long
VERON	7175,0	06.40	26	8	?	?	A1A		long time dotter
VERON	10115,0	07.57	16	8		UiPTR	F1B		Ptr
VERON	10118,0	07.44	10	8		UiPTR	F1B		Ptr
VERON	14008,0	07.51	10	8	CIS	UiPTR	F1B		Carrier/Revs/Ptr (also 17/8 14.01 UTC)
VERON	14008,0	11.04	10	8	RUS	UiCAR	NON		carrier
VERON	14008,0	08.22	11	8	RUS	UiPTR	F1B		Ptr
VERON	14008,0	09.00	11	8	RUS	UiCAR	NON		carrier
VERON	14008,0	09.23	13	8	RUS	UiPTR	F1B	200	Ptr
VERON	14008,0	07.40	14	8	RUS	UiPTR	F1B	200	Ptr, dots
VERON	14011,0	07.44	16	8	CIS	M7M8	A1A		5BL (ending 320 RPT AL K)
VERON	14011,0	08.41	16	8	CIS	M7M8	A1A		6YJK de M7M8 QRV K
VERON	14011,0	09.52	16	8	CIS	M7M8	A1A		QTC 789 27 161240 789 bt 948 bt 5BL
VERON	14011,0	10.11	16	8	CIS	M7M8	A1A		Calls to: CQ2J XRGV DWLJ OW5J
VERON	14050,0	06.48	1	8		OTHR	FMCW		radar
VERON	14053,0	06.50	17	8		OTHR	FMCW		radar
VERON	14063,0	10.15	16	8		UiPTR	F1B		Idle
VERON	14092,0	07.31	25	8	RUS	UiPTR	F1B	500	Ptr
VERON	14108,0	09.41	1	8	RUS	ACEL	A1A		BPWO DE ACEL K (proc)
VERON	14108,0	09.44	1	8	RUS	ACEL	A1A		4PSU DE ACEL K (proc)
VERON	14108,0	09.45	1	8	RUS	ACEL	A1A		D9MT DE ACEL K (proc)
VERON	14108,0	09.47	1	8	RUS	ACEL	A1A		MHGC DE ACEL K (proc)
VERON	14108,0	09.50	1	8	RUS	ACEL	A1A		LQ1U DE ACEL K (proc)
VERON	14108,0	09.56	1	8	RUS	Y1CQ	A1A		Y1CQ ZNS ZNR ZXX K
VERON	14108,0	10.05	1	8	RUS	WEGI	A1A		XXX WEGI 55961 BUMOVREC 2259 0865
VERON	14108,0	10.10	1	8	RUS	WEGI	A1A		XXX WEGI 23926 SWOBODNYJ 6145 6882
VERON	14108,0	10.22	1	8	RUS	Y1CQ	A1A		Y1CQ ZPL ZNO ZWG K
VERON	14108,0	10.21	10	8	RUS	ACEL	A1A		MHGC DE ACEL QTC 685 46 10 1306 685
VERON	14108,0	10.21	10	8	RUS	ACEL	A1A		BT 054 BT (5BL)
VERON	14108,0	07.35	23	8	RUS	5RAN	A1A		3HQ3 DE 5RAN ZBG ZQS ZJL QYT9 K
VERON	14108,0	07.43	23	8	RUS	5RAN	A1A		IELO DE 5RAN (proc)
VERON	14108,0	12.30	1	8	CIS	UicW	A1A		MMMMM 5BL (ending 958 K)
VERON	14108,0	08.12	5	8	CIS	UicW	A1A		Y1CQ QTC ZPG AR
VERON	14108,0	08.15	5	8	CIS	ACEL	A1A		QTC 059 5BL
VERON	14108,0	08.18	5	8	CIS	ACEL	A1A		Calls to: BPWO D9MT 4PSU KHVH LQ1U
VERON	14108,0	11.57	5	8	CIS	UicW	A1A		5BL (ending 455 RPT AL K)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SHIFT	DETAILS
VERON	14108,0	07.59	16	8	CIS	FN5	A1A		Calls to: VSHY NPXS LIFC 8HQ8 4NIW
VERON	14108,0	10.19	28	8	RUS	UiCW	A1A		5F traffic
VERON	14116,0	08.00	5	8		UiPTR	F1B		Fast Revs/ Ptr
VERON	14118,0	08.48	16	8	CIS	NEN8	A1A		5BL
VERON	14121,0	12.28	19	8		UiRadar	FMCW	30k	OTHR; 50sps
VERON	14141,0	08.45	26	8		UiPTR	F1B		Ptr
VERON	14192,0	15.27	3	8	CIS	UiPTR	F1B		Revs/Ptr also 18/8 26/8 29/8
VERON	14192,0	17.34	6	8	RUS	UiPtr	F1B	200	
VERON	14192,0	12.09	19	8	RUS	UiPtr	F1B	500	
VERON	14192,0	06.34	5	8	RUS	UiPTR	F1B	200	Ptr
VERON	14221,0	20.42	6	8	KGZ	UiPtr	F1B	200	Idling
VERON	21438,0	09.08	10	8	RUS	RCV	A1A		RIP90 DE RCV QTC 358 41 30 1254 BT
VERON	21438,0	09.08	10	8	RUS	RCV	A1A		358 BT NAWEREA (etc)
VERON	21438,0	15.30	23	8	RUS	RCV	A1A		RIL90 DE RCV QTC 414 31 25 1200 404
VERON	21438,0	15.30	23	8	RUS	RCV	A1A		BT NAWIP (etc)
VERON	21438,0	13.40	24	8	RUS	RCV	A1A		RKZ DE RCV QTC 160 20 24 1521 160 BT
VERON	21438,0	13.40	24	8	RUS	RCV	A1A		SML BT CHTVRMOWNE PREDUPREVD
VERON	21438	13.40	24	8	RUS	RCV	A1A		ENCE NR 687 S21/24 (etc)
VERON	21438,0	11.51	5	8	RUS	RCV	A1A		QTC 957 chTORMOWOE PREDU

# 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

September 2016