



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

## March 2017

The 30 members of the IARUMS Region 1 Monitoring Team:



## Acknowledgements

ARAT: 3V8CB – Ahmed ++ ARI: DH7SA – Salvatore ++ ARSK: 5Z4BV - Kamweti ++ ASTRA: DL1BDF – Mustapha ++ DARC: DK2OM – Wolf ++ EARS: A61M – Obaid ++ 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) ++ YO9RIJ – Petrica ++ PTTs: BAKOM (Swiss) ++ OFCOM (UK) ++ Dutch AT

Part 1: News and infos

Part 2: Detailed reports of the national co-ordinators

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# Part 1: News and Infos (screenshots DK2OM)

## 1. Good news

The Russian buzzer on 6998.0 kHz disappeared. The system disturbed the lower band edge for a long time. The Russian F1B on 7193 (location Kaliningrad) finished its transmissions. Many thanks to BNetzA Konstanz for the complaints and many thanks to the Russian MIL.

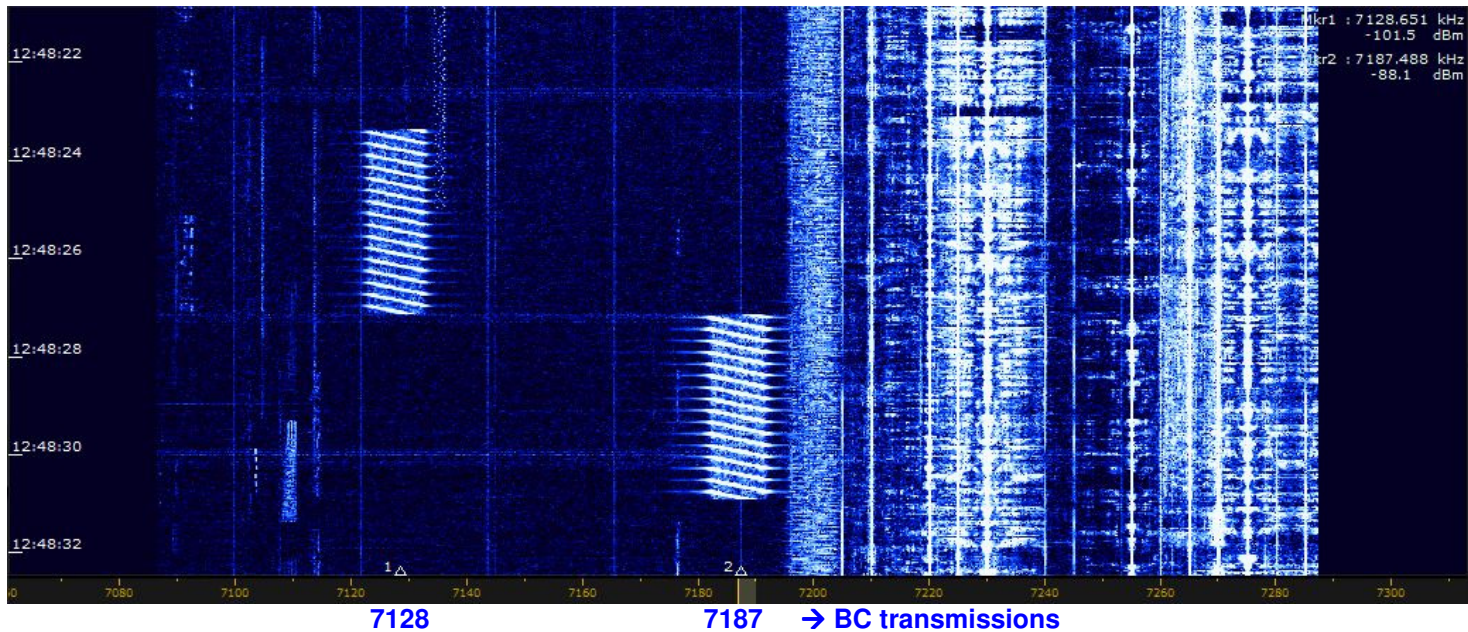
## 2. 10125 kHz Spanish fishery

10125 kHz (USB) was often abused by Spanish fishery.

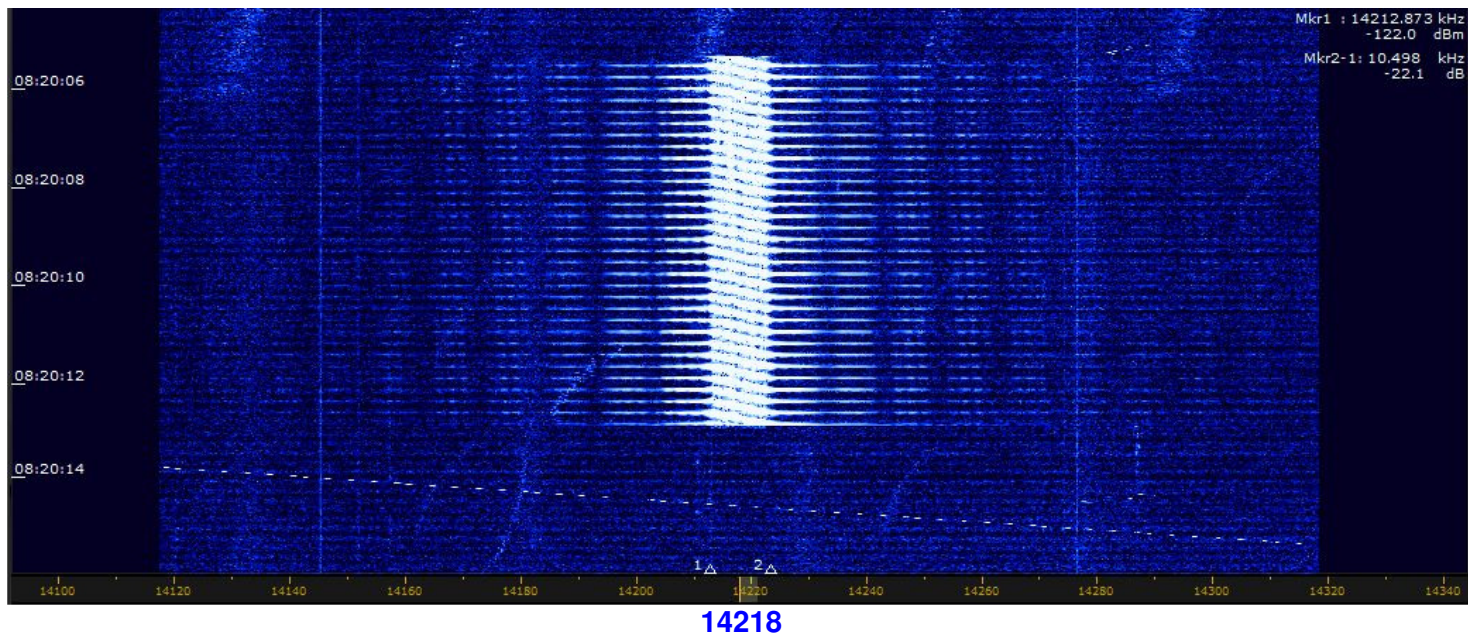
## 3. Chinese OTH radar “Foghorn” – the endless story

We observed the Chinese OTH radar (burst system) again on 7 and 14 MHz. Parameters: FMOP, 66.66 sps and 10 kHz wide. The bursts had durations of 3.8 and 7.6 sec. **Screenshots: DK2OM**

Below the jumping Foghorn on 7 MHz on March 30<sup>th</sup>.



Below the Foghorn on 14218 kHz on March 29<sup>th</sup>. Take notice of the spurious emissions!

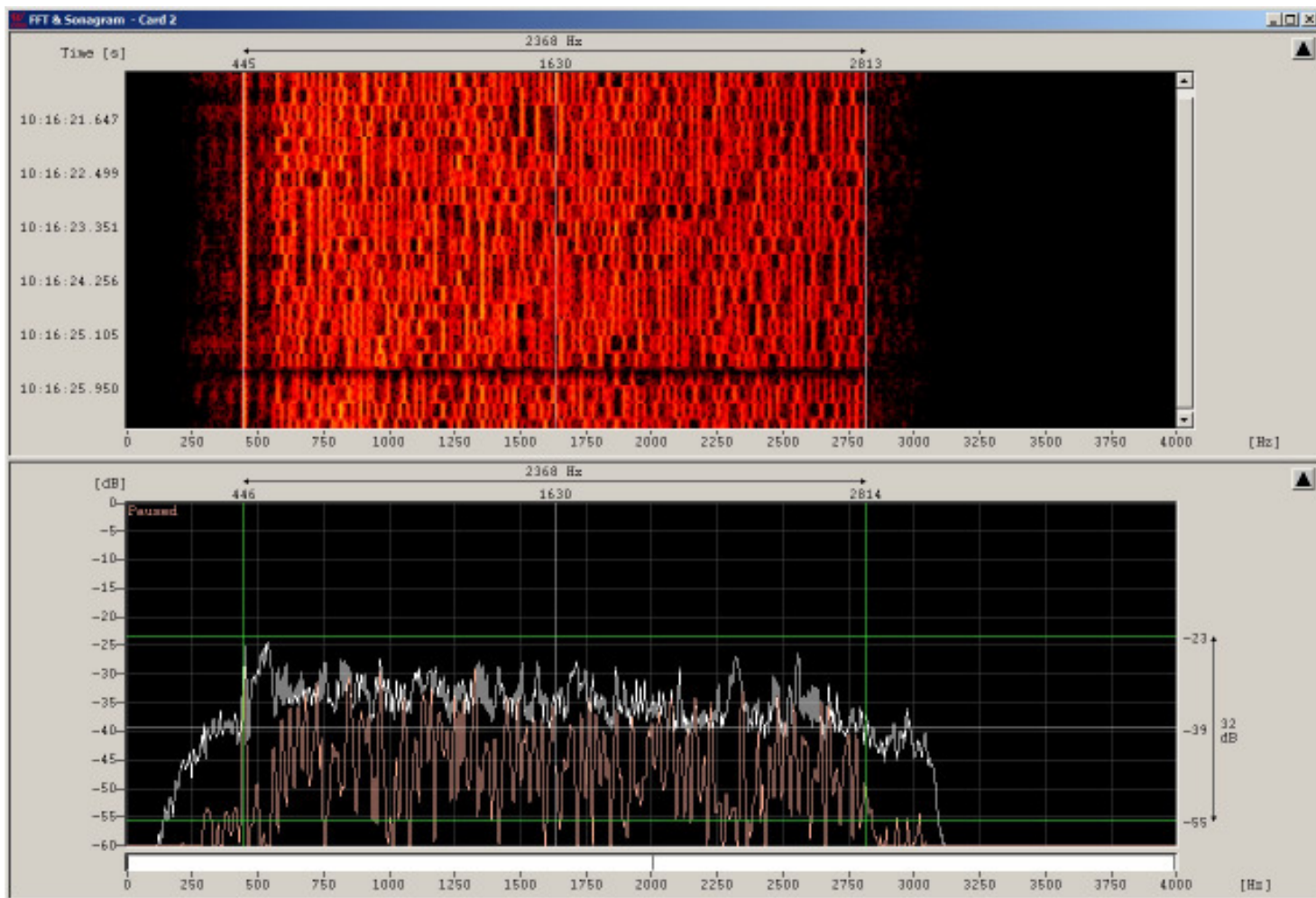


## 4. 14212 kHz – Ukraine secret service numbers station

A female voice spelled figures in Russian language on 14212 kHz on A3E (AM) on March 30<sup>th</sup> at 1211 UTC. The emission came from the “SZRU = Foreign Intelligence Service of Ukraine” in Rivne.

## 5. Digital emissions from China

- 5.1 7010.5 kHz (RF QRG) – system PRC4+4. Parameters: PSK4A - 8 x 75 Bd – signal width 2250 Hz. A rather old system but still running quite well.
- 5.2 7111.0 and 7112.0 kHz – system PRC-30. Parameters: PSK4A bursts with 30 x 60 Bd – 450 Hz pilot tone and signal width 2400 Hz. Purpose unknown. **Below** a screenshot of PRC-30 with Wavcom W-Code (DK2OM) – Sonagram and FFT view.



- 5.3 14200.0 kHz (RF QRG) - system PRC-16. Parameters: PSK2 bursts – 16 x 75 Bd – signal width 2200 Hz location Shanghai.

## 6. Far East Codan-Selcal signals on 7 MHz

We found many Codan-Selcal signals above 7104 kHz from Far East. Parameters: F1B – 100 Bd and 170 Hz shift. Codan-Selcal has been developed in Australia. Even HAMs are using this system in Australia. Please observe the entries in my table.

## 7. Poor conditions on 24 and 28 MHz

Due to low MUF the conditions on 24 and 28 MHz were very poor. We could not find any intruder except few fishery buoys..

## 8. Miscellaneous or bad news:

- 7120.0 kHz – Radio Hargaysa Somalia – as usual
- 7175.0 kHz - Radio Eritrea with Ethiopian QRM – as usual
- 7200.0 kHz – Radio Taiwan and Chinese jammer
- 14180.0 kHz – Russian Navy Sevastopol on F1B still active in the mornings
- 14295.0 kHz - Radio Tajik (harmonic from 4765 kHz)
- 21438.0 kHz – Russian Navy Sevastopol on A1A again as usual

9. Homepage IARU Region 1 <http://www.iaru-r1.org/>  
Homepage IARUMS Region 1 <http://www.iarums-r1.org>  
Homepage IARUMS Region 2 <http://www.iaru-r2.org/>  
Homepage IARUMS Region 3 <http://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 MARCH 2017

N.A. Kamweti Mutu, 5Z4BV - ARSK National IARUMS Co-ordinator

#### ARSK – Kenya – 5Z4BV (Kamweti)

H'd by	kHz	UTC	dd	mm	ITU	Identity	MODE	Details
ARSK	7.000,00	vt	dly	03	E. Africa	?	J3E-u	Unidentified, KiSwahili, Kenya. Possibly military.
ARSK	7.074,00	vt	dly		E. Africa ?	?	J3E-l	Unidentified language
ARSK	7.075,00	~0600	dly		E. Africa	?	J3E-l	Unidentified language, possibly Amharic
ARSK	7.080,20	0400-0600; 1300-1500	near dly		E. Africa	?	J3E-u	Unidentified, likely Mandarin/ Chinese language.
ARSK	7.120,00	vt	dly		Rep.of Somalia	Hargeisha	A3E	Broadcast
ARSK	7.145,00	AM/PM	dly		Eritrea	VOBM	A3E	Voice of he Broad Masses? Broadcast, Amharic, Arabic
ARSK	7.175,00	AM/PM	dly		Eritrea	VOBM	A3E	Probable hopping to avoid jamming

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

DG0JBJ (Mario) observed 8 OTH radars on 40 m, 4 OTH radars on 20 m, 40 OTH radars on 17m, 24 OTH radars on 15 m and 1 OTH radars on 10 m in March 2017.

#### 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	3,5 – 30 MHz	1723	03	03	D		QRM			3.5 - 30 MHz disturbed by a neighbouring LED lamp – daily - various times
DK2OM	1812,0	1910	28	03	RUS		USB LSB			14 tones – hyperbolic radio navigation system – BRAS-3/RS-10 – Kaliningrad – no carrier - daily, all day
DK2OM	1852,0	vt	dly	03	I	IPP	USB			Palermo Radio, weather reports
DK2OM	1855,0	vt	dly	03	I	IQP	USB			San Benedetto Radio, weather reports
DK2OM	1876,0	vt	dly	03	I	IQN	USB			Lampedusa Radio, weather reports
DK2OM	1888,0	vt	dly	03	I	IPD	USB			Civitavecchia Radio, weather

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										reports
DK2OM	1896,5	ady	dly	03	D		PSK8	2400	2400	Stanag4285 – 600 bps long – German Navy – daily, all day
DK2OM	1925,0	vt	dly	03	I	IPL	USB			Livorno Radio, weather reports
DK2OM	3500,0	1723	03	03	D		QRM			disturbed by a neighbouring LED lamp with S9
DK2OM	3500,0	2054	11	03	E		USB			Spanish fishery
DK2OM	3500,4	2036	11	03	CIS		A3E			CIS pirates – unstable carriers
DK2OM	3501,0	vt	vd	03	UKR		FSK8	125	1750	ALE, “B10” “X”
DK2OM	3503,5	vt	dly	03	G	no ITU	FSK8	125	1750	ALE – “XSS” “XPU” “XJR” – British MIL Tascomm – vt, daily - legal!
DK2OM	3525,0	2003	02	03	F		PSK4	75	5800	LINK11-CLEW on both sidebands (5800 Hz wide) – area of Marseille – legal!
DK2OM	3527,0	---	--	03	RUS		F1B	50	200	Severomorsk
DK2OM	3531,0	---	--	03	RUS	REA4	N0N			unclean carrier - RUS airforce Moscow, ident: 1940 utc - daily
DK2OM	3532,0	---	--	03	F		PSK4	75	5800	LINK11-CLEW on both sidebands (5800 Hz wide) – area of Brest – legal!
DK2OM	3536,0	1957	12	03	CIS		A3E			CIS pirates – unstable carriers
DK2OM	3540,0	2002	12	03			USB			male persons in RUS voice
DK2OM	3542,0	1855	24	03	RUS		PSK4A	120	2600	AT3104D – Moscow
DK2OM	3550,0	0730	dly	03	F		A3E			French amateurs not respecting bandplans - daily
DK2OM	3550,0	vt	vd	03	ALG	no ITU	FSK8	125	1750	ALE, “IU50” “IU52” “FN50”
DK2OM	3550,7	vt	vd	03	ISR		PSK4 PSK8	75 2400	2400 2400	hybrid modem – ISR Navy – PSK4 parallel and PSK8 serial - legal operation!
DK2OM	3552,0	2030	25	03	RUS		F1B	50	250	Severomorsk
DK2OM	3553,8	ady	dly	03	TUR		PSK8	2400	2400	Stanag4285 – 600 bps long -TUR MIL - Ankara – daily, all day - legal operation
DK2OM	3555,0	0845	01	03			USB			Scandinavians – North Sea
DK2OM	3576,6	ady	dly	03	I	IZ3DVW	A1A			3576.550 - uncoordinated beacon – disturbing JT65
DK2OM	3582,0	1955	12	03	RUS		PSK2	120	2600	AT3004D – modem idle – area of Moscow – also 14.03.2017 at 2115 utc and 19.03.2017 at 2144 utc
DK2OM	3585,0	ady	dly	03	TWN	HLL	FIC		800	WX-fax Taiwan - 120 rpm, IOC 576, - daily, all day - legal!
DK2OM	3586,0	1800	dly	03	G		PSK2A	40	40	encrypted – every evening Great Britain – purpose unknown
DK2OM	3587,0	vt	vd	03	E	no ITU	FSK8	125	1750	ALE, “TVV” “TXX” - Spanish Guardia Civil
DK2OM	3593,7	---	--	03	RUS	D	A1A			Cluster beacon – Sevastopol RUS Navy – “RCV”
DK2OM	3593,8	---	--	03	RUS	P	A1A			Cluster beacon – Kaliningrad RUS Navy – “RMP”
DK2OM	3593,9	---	--	03	RUS	S	A1A			Cluster beacon – Severomorsk RUS Navy – „RIT“
DK2OM	3594,0	---	--	03	RUS	C	A1A			Cluster beacon C - Moscow RUS Navy - “RIW”
DK2OM	3594,2	---	--	03	RUS	F	A1A			Cluster beacon F - Vladivostok RUS Navy - “RJS”
DK2OM	3595,0	---	--	03	RUS	K	A1A			Cluster beacon - Petropavlovsk Kamchatskiy - RUS Navy - Pacific fleet - “RCC”
DK2OM	3596,0	1837	26	03	SUI		FSK8	125	1750	ALE, “HB9MHBst for info!
DK2OM	3596,0	1959	17	03	J		FSK8	125	1750	ALE, “JH1ESB” – just for info!
DK2OM	3617,0	vt	dly	03	HRV	9A5EX	FSK8	125	1750	ALE, “9A5EX” – HAM-ALE - just for info
DK2OM	3622,5	ady	dly	03	J	JMH	FIC		800	Tokyo Meteo – 120 rpm – IOC 576 – daily, all day - legal!!!
DK2OM	3640,0	vt	dly	03	G		FSK8	125	1750	ALE, “XSS” - British MIL

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										Tascomm – just for info!
DK2OM	3642,0	ady	dly	03	CHN		A1A			loop – DKG6 de 3A7D Chinese military – daily, all day
DK2OM	3649,0	vt	vd	03	ALG	no ITU	FSK8	125	1750	ALE, “BI20” PA20”
DK2OM	3699,0	vt	vd	03	ARS		FSK8	125	1750	ALE, “NAI” “RCI” – Saudi Arabian MIL
DK2OM	3704,0	2130	16	03	RUS		PSK2	120	2600	AT3004D – submode idle – Far East Russia
DK2OM	3718,0	vt	vd	03	FEa	7CJK	A1A			loop “7CJK”
DK2OM	3720,0	vt	dly	03	S		FSK8	125	1750	ALE, “YU” “YT” “YV” “DZ” – Swedish MIL
DK2OM	3751,5	vt	dly	03	POL	no ITU	FSK8	125	1750	ALE, “IZ3” “MI3”
DK2OM	3756,0	2030	06	03	RUS		A3E			RUS MIL – channel marker – Tuapse – East Black Sea – night QRG – daily – even audible in Japan
DK2OM	3757,0	ady	dly	03	FEa	RIS9	A1A			“M8JF de RIS9” - loop
DK2OM	3761,5	vt	vd	03	POL	no ITU	FSK8	125	1750	ALE, “NI9” “PL7” “AB2” – Polish MIL
DK2OM	3772,0	ady	dly	03	FEa	A4JC	A1A			“A4JC” - loop
DK2OM	3777,0	1926	09	03	FEa		A1A			“M8JF de RIS9” – loop – dly
DK2OM	3791,0	vt	vd	03	D	DK0ESD	FSK8	125	1750	ALE, “DK0ESD” – daily - just for info!
DK2OM	3797,0	ady	dly	03	FEa		A1A			“M8JF de RIS9” – loop
DK2OM	5351,5	1724	03	03	D		QRM			<b>disturbed by a neighbouring LED lamp with S9 +10</b>
DK2OM	5351,5	---	--	03	FEA		FMOP		58k	<b>Far East OTH radar 5316 – 5374kHz – 43 sps – even audible in Europe (vy strong in Northern Europe) – covering weak CW-signals on 5351.5 – 5366.5 kHz</b>
DK2OM	6998,5	vt	dly	03	POL		FSK8	125	1750	MIL-188-141A – “BU2” “OD6” “OL1” “SZ4” “ZE2” “MA3” until 7001.0 kHz – also voice traffic male and female - Polish MIL
DK2OM	6999,0	1706	30	03	RUS		PSK2A	120	2600	AT3004D – pilot tone on 7001.3 kHz - Moscow
DK2OM	7000,0	vt	dly	03	INS		USB LSB			Indonesian pirates – daily – all day – singing - audible in Europe in the evenings
DK2OM	7000,0	1725	03	03	D		QRM			<b>disturbed by a neighbouring LED lamp – every evening</b>
DK2OM	7001,5	ady	dly	03	POL		PSK8	2400	2400	RF QRG 6998.5 kHz – 7000.3 kHz center - MIL-188-110A – 600 / 300 bps short – Polish MIL
DK2OM	7004,0	1105	02	03	RUS		PSK2A	120	2600	AT3004D – Far East Russia
DK2OM	7005,0	1639	19	03	INS		USB LSB			Indonesian pirates
DK2OM	7010,0	0919	08	03	INS		USB LSB			Indonesian and Philippine pirates
DK2OM	7010,0	vt	vd	03	ALB	no ITU	FSK8	125	1750	ALE, “RS0” - Tirana
DK2OM	7010,0	1918	22	03			FSK8	125	1750	ALE, “920”
DK2OM	7010,5 USB	vt	30	03	CHN		PSK4A	75	2250	PRC4+4 – 8 x 75 Bd
DK2OM	7015,0	1444	20	03	INS		USB LSB			Indonesian pirates
DK2OM	7018,0	---	--	03	RUS	REA4	F1B	100	800	mostly idling – Russian airforce Moscow – ident at full hour + 41 min. on F1A
DK2OM	7018,0	0719	27	03	RUS		PSK2A	120	2600	AT3004D - Moscow
DK2OM	7020,0	vt	vd	03	ALB		FSK8	125	1750	ALE, “CS004A” “RS004D” “CS004” - daily
DK2OM	7024,0	1512	09	03	RUS		F1B	75	250	Rostov na Donu
DK2OM	7025,0	1444	20	03	INS		USB LSB			Indonesian pirates

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	7026,0	1527	09	03	RUS		PSK2	120	2600	AT3004D – submode idle – Far East Russia
DK2OM	7027,5	---	--	03	UKR	„V“	A1A			beacon “V” – Kyiv
DK2OM	7028,0	1620	13	03	RUS		FMCW		13k	OTH radar Contayner - 50 sps – Gorodezh
DK2OM	7028,0	1756	20	03	FEa		PSK2	120	2600	AT3004D – submode idle – Far East Russia
DK2OM	7030,0	0919	08	03	INS		LSB USB			Indonesian pirates
DK2OM	7030,0	1915	30	03	RUS		PSK2A	120	2600	AT3004D – Far East Russia
DK2OM	7034,0	1820	21	03	RUS		FMCW		13k	OTH radar Contayner - 50 sps – Gorodezh
DK2OM	7035,0	1509	09	03	RUS		F1B	75	250	Smolensk
DK2OM	7035,0	0824	31	03	RUS		PSK2A	120	2600	AT3004D - Moscow
DK2OM	7039,0	---	--	03	RUS	C	A1A			Cluster beacon C - Moscow RUS Navy - “RIW”
DK2OM	7039,1	---	--	03		A	A1A			beacon “A” - loop
DK2OM	7039,2	2226	04	03	RUS	F	A1A			Cluster beacon F - Vladivostok RUS Navy - “RJS”
DK2OM	7039,3	---	--	03	RUS	K	A1A			Cluster beacon K Petropavlovsk Kamchatskiy - RUS Navy - Pacific fleet - “RCC” - daily
DK2OM	7039,4	1632	05	03	RUS	M	A1A			Cluster beacon M – Magadan RUS Navy – „RTS“
DK2OM	7040,0	1445	20	03	INS		USB LSB			Indonesian pirates
DK2OM	7040,0	vt	dly	03	F	F6BAZ	FSK8	125	1750	ALE, “F6BAZ” – just for info
DK2OM	7040,0	ady	dly	02	I		A1A			<b>IZ3DVW – uncoordinated and unwanted beacon</b>
DK2OM	7040,5	vt	dly	03	HRV		FSK8	125	1750	ALE, “9A5EX” “9A0ALE” – just for info
DK2OM	7041,9	1135	21	03	FEa		F1B	100	800	Far East
DK2OM	7047,37	vt	vd	02	D		FSK8	125	1750	ALE, “DL0NOT” – just for info!
DK2OM	7049,5	vt	vd	03	HRV G F	9A0ALE M1DFO F6BAZ	FSK8	125	1750	Amateur ALE, just for info! daily – various times
DK2OM	7050,0	vt	dly	03	RUS UKR		LSB			music transmissions – private war ?
DK2OM	7050,0	vt	dly	03	KGZ		FSK8	125	1750	ALE, “X” “810” “820615” “810698” – Kyrgyzstan MIL
DK2OM	7050,0	1753	10	03	RUS		FMCW		13k	OTH radar Contayner - 50 sps – Gorodezh
DK2OM	7054,0	1823	09	03	FEa		FMOP		32k	Codar like ocean surface radar 2.6 sps – 7054 – 7086 kHz
DK2OM	7054,0	ady	dly	03	CHN		FSK8	125	1750	ALE, “128” “118” “133”
DK2OM	7065,0	1730	01	03	FEa		FMOP		32k	Codar like ocean surface radar 2.6 sps – 7065 – 7097 kHz
DK2OM	7068,0	1433	16	03	RUS		PSK2	120	2600	AT3004D – submode idle – east of Moscow
DK2OM	7068,0	0944	21	03	FEa		FMOP		32k	Far East OTH radar – 7068 – 7100 kHz - 43 sps – “Sunflower”
DK2OM	7070,0	vt	vd	03	GEO	no ITU	FSK8	125	1750	ALE, “MV” “244” “686” “334” “204” “571” – daily active
DK2OM	7088,8	---	--	03	S	SL0FRO	A1A			7088.830 kHz - cw-trainee, Sweden - SL0FRO - just for info!
DK2OM	7089,8	---	--	03	TUR CYP		PSK8	2400	2400	Link 11 - SLEW – aircraft – west of Cyprus
DK2OM	7091,5	ady	dly	03	KAZ	„V“	A1A			7091.543 kHz - loop with spurious – ident “V” – Almaty - Kazakhstan
DK2OM	7099,5	vt	dly	03	HRV	9A0ZG	FSK8	125	1750	ALE, “9A0ZG” “9A5EX1P” “9A0OS” – daily - just for info!
DK2OM	7102,0	1957	04	03	TWN		FSK8	125	1750	ALE, “BV4AS” – just for info!
DK2OM	7102,0	vt	vd	03	HRV SUI D	9A0MIL	FSK8	125	1750	ALE, “9A3MIL” “9A2KS” “HB9MHB” “9A0ZG” “9A4OS” “DK0ESD” – just for

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										info!
DK2OM	7104,8	1758	19	03	FEa		F1B	100	170	Codan selcal – 6666 – 0213 – 1461
DK2OM	7107,8	1752	19	03	FEa		F1B	100	170	Codan selcal – 1111 – 1667 – 8535 – 4134 – 8092 - 6630
DK2OM	7110,0	vt	dly	03	HRV	9A0ALE	FSK8	125	1750	ALE, “9A0ALE” – just for info
DK2OM	7110,8	1802	19	03	FEa		F1B	100	170	Codan selcal – 5957 – 7474 – 2103 – 1573 – 6557 – 3702 - 2928
DK2OM	7111,0 LSB	2000	11	03	CHN		PSK4A	60	2400	burst system “PRC-30” – 30 tones – 450 Hz pilot tone
DK2OM	7112,0 LSB	1823	28	03	CHN		PSK4A	60	2400	burst system “PRC-30” – 30 tones – 450 Hz pilot tone
DK2OM	7113,8	1745	19	03	FEa		F1B	100	170	Codan selcal – 8580 – 0653 – 3333 – 1797 - 6469
DK2OM	7117,0	---	--	03	RUS	REA4	F1B	100	1000	mostly idling – Russian airforce Moscow – ident on CW at 1640 utc on the mark-QRG
DK2OM	<b>7120,0</b>	<b>1500</b>	<b>vd</b>	<b>03</b>	<b>SOM</b>		<b>A3E</b>		<b>9k</b>	<b>Radio Hargaysa – Somalia – daily – even audible in Australia and Japan</b>
DK2OM	7122,0	0754	13	03	RUS		F1B	75	250	Kaliningrad
DK2OM	7124,0	vt	vd	03	CHN		FSK8	125	1750	ALE, “310” “223”
DK2OM	7125,0	1920	28	03	FEa		FMOP		40k	Far East OTH radar – 43 sps – 7125 – 7165 kHz – Sunflower?
DK2OM	7128,0	1242	30	03	CHN		FMOP		10k	Chinese OTH radar (foghorn) – 66.66 sps – 3.8 sec bursts – jumping 7187
DK2OM	7137,0	vt	dly	03	TWN		FSK8 LSB	125	1750	ALE, “DEGDG” “DRYHD” “DCOYI” “DSQLK” “DEIQW” “DETWY” Taiwanese navy – daily
DK2OM	7137,0	1630	03	03	RUS		F1B	50	200	Kaliningrad
DK2OM	7137,0	1455	30	03			FMOP		10k	Chinese OTH radar (foghorn) – 66.66 sps – 7.6 sec bursts
DK2OM	7140,8	1815	19	03	FEa		F1B	100	170	Codan selcal – 8888 – 8533 – 3429 -2543 – 3713 – 4612 – 3173 – 9443 – 9426 – 3141 – 4080 – 2636 – 0397 – 7896 – 3141
DK2OM	7143,8	1808	19	03	FEa		F1B	100	170	Codan selcal – 8888 – 1723 – 3015 – 2949 – 4515 – 3259 - 4080
DK2OM	7150,0	1821	29	03	RUS		FMCW		13k	OTH radar Contayner - 50 sps – Gorodezh
DK2OM	7151,0	1137	21	03	FEa		FMOP		33k	Far East OTH radar – 7151 – 7184 kHz - 43 sps – “Sunflower”
DK2OM	7155,0	1248	02	03	FEa		FMOP		32k	Codar like ocean surface radar 2.6 sps – 7155 – 7187 kHz
DK2OM	7162,0	1003	01	03	FEa		FMOP		32k	Codar like ocean surface radar 2.6 sps – 7162 – 7194 kHz – daily, various times
DK2OM	<b>7163,0</b>	<b>---</b>	<b>--</b>	<b>03</b>	<b>UKR</b>		<b>A3E</b>			<b>encrypted MSGs - SZRU in Rivne</b>
DK2OM	7163,0 LSB	vt	29	03	CHN		PSK4A	60	2400	burst system “PRC-30” – 30 tones – 450 Hz pilot tone
DK2OM	<b>7175,0</b>	<b>1702</b>	<b>18</b>	<b>03</b>	<b>ERI ETH</b>		<b>A3E</b>		<b>9k</b>	<b>carrier on 7174.989 kHz Radio Eritrea disturbed by Radio Ethiopia with white noise emissions - daily</b>
DK2OM	7176,0	1506	12	03	RUS		PSK2A	120	2600	AT3004D – Far East Russia
DK2OM	7176,0	0705	29	03	RUS		F1B	75	250	Kaliningrad
DK2OM	7183,0	vt	dly	03	SUI		FSK8	125	1750	ALE, “HB9MHB” – just for info!
DK2OM	7185,5	vt	dly	03	D HRV		FSK8	125	1750	ALE, “9A5EX” “DK0ESD” just for info - daily
DK2OM	7187,0	1245	30	03	CHN		FMOP		10k	Chinese OTH radar (foghorn) – 66.66 sps – 3.8 sec bursts
DK2OM	<b>7200,0</b>	<b>vt</b>	<b>dly</b>	<b>03</b>	<b>CHN</b>		<b>A3E/BC</b>		<b>9k</b>	<b>Chinese jammer disturbing</b>



DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
					TWN					<b>Taiwan BC</b>
DK2OM	10100,0	1727	03	03	D		QRM			<b>disturbed by a neighbouring LED lamp with S9</b>
DK2OM	10100,8	ady	dly	03	D		F1B	50	450	Baudot - German Weatherservice – legal!
DK2OM	10110,0	vt	dly	03	SNG	no ITU	FSK8	125	1750	ALE, “CN6” “68” – Singapore Navy - Changi Naval Base
DK2OM	10113,0	vt	vd	03	TUN	no ITU	FSK8	125	1750	ALE, “TUD” “STAT5” “STAT154”
DK2OM	10114,0	vt	dly	03	ALG	no ITU	FSK8	125	1750	ALE, “BSF” “ZEN” “CM2OR2”
DK2OM	10114,8	0750	dly	03	RUS		F1B	100	1000	CIS14 – Moscow - daily
DK2OM	10115,0	vt	dly	03	MRC	no ITU	FSK8	125	1750	ALE, “100” “114” “203” “XXZ” – Western Sahara
DK2OM	10116,5	---	--	03	AFS		F7D	54.3	2120	MHF50 – 33 tones - South African navy
DK2OM	10120,0	vt	dly	03	ALG	no ITU	FSK8	125	1750	ALE, “CM6” “01012016”
DK2OM	10123,0	vt	dly	03	ALG	no ITU	FSK8	125	1750	ALE, “CM3” “COF” “BSF” “CM2” “ESA” – Algerian Airforce
DK2OM	10125,0	2109	25	03	E		USB			Spanish fishery
DK2OM	10129,0	vt	dly	03	ALG	no ITU	FSK8	125	1750	ALE, “CM1” “CTF” “772”
DK2OM	10131,0	1850	24	03	MRC		USB			Moroccan fishery
DK2OM	10132,0	--	--	03	F		USB			<b>French “amateurs” not respecting bandplans</b>
DK2OM	10136,0	vt	dly	03	ALG	no ITU	FSK8	125	1750	ALE, “CM3” “BLD” “CNC” “TF2”
DK2OM	10144,0	ady	dly	03	D	DK0WCY	A1A			<b>10144.000 kHz - DK0WCY – German aurora beacon – just for info!</b>
DK2OM	10145,5	vt	dly	03	SUI	HB9MHB	FSK8	125	1750	ALE, “HBMHB” - just for info - daily
DK2OM	10145,5	vt	dly	03	TWN AUS	BV4AS	FSK8	125	1750	ALE, “BV4AS” “VK4SAA” – just for info!
DK2OM	14000,0	1346	05	03	FEa		USB			pirates from Java Sea - daily
DK2OM	14000,0	1728	03	03	D		QRM			<b>disturbed by a neighbouring LED lamp with S9 – daily various times</b>
DK2OM	14000,0	2203	15	03	E		USB			Spanish fishery
DK2OM	14000,0	1835	23	03			USB			male persons – 220 deg. – Engl. voice
DK2OM	14000,0	1114	27	03	RUS		FMCW		13k	OTH burst radar Contayner - 10 sps – Gorodezh
DK2OM	14013,0	0850	03	03	RUS		PSK2A	120	2600	AT3004D – Far East Russia
DK2OM	14016,0	0950	09	03	RUS		PSK2A	120	2600	AT3004D – submode idle and traffic - Moscow
DK2OM	14044,0	0840	21	03	RUS		F1B	75	250	Kaliningrad
DK2OM	14052,0	0822	07	03	RUS		PSK2A	120	2600	AT3004D – Moscow - submode idle
DK2OM	14056,0	1620	13	03	RUS		FMCW		26k	OTH radar Contayner - 50 sps – Gorodezh from 7028 kHz / harmonics on 14056
DK2OM	14100,0	vt	dly	03	ALG	no ITU	FSK8	125	1750	ALE, “6206” “6204” “6212” “6202” “6203” “6207” “6217” “MTL” “IJI” – Mauritanian border – daily, all day
DK2OM	14100,0	1728	03	03	D		QRM			<b>disturbed by a neighbouring LED lamp with S9 – daily various times</b>
DK2OM	14100,0	0910	17	03	RUS		FMCW		13k	OTH radar Contayner - 50 sps – Gorodezh
DK2OM	14109,0	vt	vd	03	TWN	HAM	FSK8	125	1750	ALE, “BV4AS” – daily - just for info!
DK2OM	14109,0	vt	dly	03	INS	HAM	FSK8	120	1750	ALE, “YD00XH” – just for info!
DK2OM	14109,0	vt	dly	03	S HRV D		FSK8	125	1750	ALE, “SM3FXL” “9A4OS” “9A3BRV” “DK0ESD” - just for info!

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	14109,0	vt	vd	03	G		FSK8	125	1750	ALE, "M1DFO" – just for info
DK2OM	14110,0	1106	12	03	RUS		FMCW		13k	OTH burst radar Contayner - 10 sps – Gorodezh
DK2OM	14160,0	vt	dly	03	MRC		FSK8	125	1750	ALE, "9204" "9228" "9236"
DK2OM	14180,0	0925	07	03	RUS	RDL	F1B	50	250	RUS navy Sevastopol
DK2OM	14192,0	vt	dly	03	RUS		F1B	50 75 50 100 100	500 500 200 500 200	RUS navy Kaliningrad - daily
DK2OM	14201,8	0920	31	03	CHN		PSK2	75	2200	PRC 16 tone modem – RF 14200.0 kHz - China – Shanghai
DK2OM	14203,9	---	--	03	RUS		OFDM	35.6	2750	OFDM 60 – Omsk
DK2OM	14212,0	1211	30	03	UKR		A3E			female voice with encrypted msgs – figures – "SZRU" = Foreign Intelligence Service of Ukraine in Rivne – heard by M00DV
DK2OM	14218,0	0815	29	03	CHN		FMOP		10k	Chinese OTH radar (foghorn) – 66.66 sps – 7.6 sec bursts – jumping 14297 kHz
DK2OM	14221,0	vt	vd	03	KGZ		F1B	50	200	CIS-50-50 - Bishkek – daily
DK2OM	14239,0	0937	17	03	CHN ?		FMOP		40k	Far East OTH burst radar – 43 sps – 12 sec bursts (Sunflower?)
DK2OM	14239,0	1120	17	03	CHN ?		FMOP		10k	Far East OTH burst radar – 43 sps – 12 sec bursts (Sunflower?)
DK2OM	14250,0	0942	17	03	CHN		FMOP		10k	Chinese OTH radar "foghorn" – 66.66 sps – 3.8 sec bursts
DK2OM	14260,0	vt	dly	03	SRB	YU1BI	FSK8	125	1750	ALE, "YU1BI" – just for info!
DK2OM	14260,9	0925	15	03	RUS		OFDM	35.6	2750	CIS-60 – Moscow and female Russian voices on USB 14259.0 kHz
DK2OM	14265,0	0940	08	03	RUS		PSK2A	120	2600	AT3004D - Moscow
DK2OM	14272,0	---	--	03	RUS	RCV	A1A			RUS Navy Sevastopol
DK2OM	14295,0	vt	dly	03	SRB	YU1BI	FSK8	125	1750	ALE, "YU1BI" – just for info!
DK2OM	14295,0	ady	dly	03	TJK		A3E		9k	3 <sup>rd</sup> from Radio Tajik on 4765 kHz – daily, all day
DK2OM	14306,0	0932	28	03	FEa		FMOP		10k	Far East OTH radar – 42 sps – 12 sec bursts
DK2OM	14320,0	0956	21	03	CHN		FMOP		10k	Chinese OTH radar (foghorn) – 66.66 sps – 3.8 sec bursts
DK2OM	14330,0	vt	dly	03	TWN		FSK8	125	1750	ALE, "BV4"
DK2OM	14340,0	---	--	03	RUS		PSK2A	120	2600	AT3004D – Vladivostok with spurious emissions +/- 35 kHz and +/- 70 kHz - daily
DK2OM	14346,0	vt	dly	03	POR		FSK8	125	1750	ALE, "CT2IXQ" just for info – various times, daily
DK2OM	14348,0	vt	dly	03	THA	HSOZEA	A1A			HSOZEA beacon – 14347.950 kHz - every 5 minutes – daily - just for info!
DK2OM	14351,7	---	--	03	E		OFDM PSK4A	30	2700	OFDM 73 + intro tone – HFD+VL - experimental transmissions – Las Palmas – just for info!
DK2OM	18080,0	---	--	03	TWN		A3E/BC			Sound of Hope – Taiwan and Chinese BC jammer – daily at 06 utc and later
DK2OM	18100,0	vt	dly	03	MRC	no ITU	FSK8	125	1750	ALE, "A2" "A4" "A5" "A7" "S6" – "C3" "R3" "G401" "CD" "09" "G2" "LG6" "G301" "ELJADIDNET4" - daily, various times
DK2OM	18106,0	vt	vd	03	POR	CT2GOY	FSK8	125	1750	ALE, "CT2GOY" – just for info!
DK2OM	18107,0	vd	vt	03	RUS	RDL	F1B	50	200	CIS-50-200 - Moscow – idle and traffic – daily - Russian navy – shared band!
DK2OM	18117,5	vt	vd	03	POR	CT2IXQ	FSK8	125	1750	ALE, "CT2IXQ" – just for info

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	18140,0	vt	dly	03	SRB	YU1BI	FSK8	125	2600	ALE, "YU1BI" – just for info!
DK2OM	18150,0	---	--	03	RUS		F1B	100	1000	harmonic from 9075 (100 Bd, 500 Hz) - Kaliningrad
DK2OM	21000,0	---	--	03	B		USB			<b>Brazilian pirates – Rio de Janeiro with North Brazil – very often</b>
DK2OM	21000,0	---	--	03	SDN		USB			<b>MFA Sudan – Khartoum with emba Yemen – voice traffic</b>
DK2OM	21000,0	---	--	03	F		FMCW			French OTH burst radar – every 15 minutes – South France
DK2OM	21000,0	1728	03	03	D		QRM			<b>disturbed by a neighbouring LED lamp with S9</b>
DK2OM	21002,2	---	--	03	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	03	INS	YD00XH	FSK8	125	1750	ALE, "YD00XH3" – daily, various times - just for info!
DK2OM	21096,0	vt	vd	03	G		FSK8	125	1750	ALE, "M1DFO" – just for info!
DK2OM	21145,0	vt	dly	03	MRC	no ITU	FSK8	125	1750	ALE, "A" "B301" "C3", "IR4" "H4" "IR6" "T4" "E4" "A2" "CD" "K3" "KB2" "J5" "J52" "GR2" "GS4" "R3" "R301" "R33" "R8" "R5" "Y1" "S51" "S3" "S4" "S512" "S552" "G2" "G501" - various times, daily
DK2OM	21145,8	ady	dly	03	I	IZ3DVW	A1A			IZ3DVW beacon – 21145,790 kHz – daily, all day - not coordinated with IARU
DK2OM	21400,0	---	--	03	RUS		F1B	50	2000	harmonic from 5350 kHz – area of Moscow
DK2OM	21438,0	1259	01	03	RUS	RCV	A1A			RIP90, RCV, RGX94 - RUS Navy Sevastopol - daily
DK2OM	21446,0	ady	dly	03	THA	HS0ZEA	A1A			HS0ZEA beacon – every 5 minutes - just for info!
DK2OM	25000,0	ady	dly	03	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	1508	01	03	B		A3E			<b>Brazilian CBers – 28000 – 28325 – daily, all day - no change</b>
DK2OM	28000,0	---	--	03	CIS		F3E			<b>28000 – 29700 numerous CIS taxi nets – no change</b>
DK2OM	28000,0	1728	03	03	D		QRM			<b>disturbed by a neighbouring LED lamp with S9</b>
DK2OM	28010,1	---	--	03	POR		F1B	51	300	F1B bursts – west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28025,0	---	--	03	POR		F1B	51	300	F1B bursts – 28025.050 kHz - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28030,0	---	--	03	POR		F1B	51	340	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28045,0	---	--	03	POR		F1B	51	280	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28050,0	---	--	03	POR		F1B	51	300	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28051,5	---	--	03	POR		F1B	51	300	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28060,0	---	--	03	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28065,1	---	--	03	POR		F1B	51	320	F1B bursts - west of Lisbon –

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28065,8	---	--	03	GAB		A3E		980	carrier and dots in USB and LSB, bursts every 60 sec – carrier – Gabon – daily and all day
DK2OM	28075,0	---	--	03	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28085,0	---	--	03	POR		F1B	51	300	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28090,1	---	--	03	POR		F1B	51	320	F1B bursts - 28100.780 kHz - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28100,2	---	--	03	POR		F1B	51	300	F1B bursts - 28100.780 kHz - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28102,1	---	--	03	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28125,0	---	--	03	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28146,0	vt	vd	03	ARG B		FSK8	125	1750	ALE, “LU8EX” “PY2TI” “DL1” – just for info!
DK2OM	28200,0	---	--	03	POR		F1B	51	330	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28224,4	---	--	03	GAB		A3E			carrier and dots +/- 770 Hz - bursts every 60 sec – Gabon – daily and all day
DK2OM	28249,6	---	--	03	GAB		A3E		1380	carrier and dots +/- 745 Hz - bursts every 60 sec – Gabon – daily and all day
DK2OM	28250,5	---	--	03	GAB		A3E		1000	carrier and dots +/- 500 Hz - bursts every 60 sec – Gabon – daily and all day
DK2OM	28275,1	---	--	03	AF		F1B	51	320	F1B bursts -Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28312,5	vt	vd	03	POR	CT2IXQ	FSK8	125	1750	ALE. “CT2IXQ” – just for info
DK2OM	28315,0	---	--	03	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28345,1	---	--	03	GAB		A3E		1060	carrier and dots +/- 530 Hz - bursts every 60 sec – Gabon – daily and all day
DK2OM	<b>28435,0</b>	----	--	<b>03</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>
DK2OM	28459,8	----	--	03	GAB		A3E		1060	carrier and dots +/- 530 Hz - bursts every 60 sec – Gabon – daily and all day
DK2OM	28459,9	---	--	03	GAB		A3E		1060	carrier and dots +/- 530 Hz - bursts every 60 sec – Gabon – daily and all day
DK2OM	<b>28499,8</b>	---	--	<b>03</b>	<b>MEa</b>		<b>F1B</b>	<b>81.9</b>	<b>140</b>	<b>Datawell-buoy “Waverider” – 28499.875 kHz – Persian Gulf</b>
DK2OM	28701,1	---	--	03	GAB		A3E		1056	carrier and dots +/- 528 Hz - bursts every 60 sec – Gabon – daily and all day
DK2OM	28745,3	---	--	03	GAB		A3E		1060	carrier and dots +/- 530 Hz - bursts every 60 sec – Gabon – daily and all day
DK2OM	28751,2	---	--	03	GAB		A3E		1080	carrier and dots +/- 540 Hz - bursts every 60 sec – Gabon – daily and all day
DK2OM	28751,3	---	--	03	GBN		A3E		1040	carrier and dots +/- 520 Hz -

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										bursts every 60 sec – Gabon – daily and all day
DK2OM	28801,5	---	--	03	GBN		A3E		1090	carrier and dots +/- 545 Hz - bursts every 60 sec – Gabon – daily and all day
DK2OM	28845,5	---	--	03	GAB		A3E		1060	carrier and dots +/- 530 Hz - bursts every 60 sec – Gabon – daily and all day
DK2OM	28901,1	---	--	03	GAB		A3E		1056	carrier and dots +/- 528 Hz - bursts every 60 sec – Gabon – daily and all day
DK2OM	29114,0	---	--	03	RUS		F1B	100	2000	harmonic from 14557.0 kHz - Moscow
DK2OM	29249,9	1511	01	03	E		F1B	81.9	140	Datawell-buoy “Waverider” – 29249.880 kHz – Spain Fuerteventura - daily, all day
DK2OM	29375,0	---	--	03	I		F1B	81.9	140	Datawell-buoy “Waverider” – 29374.898 kHz – Gallipoli, South Italy - daily, all day
DK2OM	29387,5	---	--	03	IND		F1B	81.9	140	Datawell-buoy “Waverider” – 29387.460 kHz – Indian NW coast, close to Pakistan - daily, all day
DK2OM	29400,0	---	--	03	USA		F1B	81.9	140	Datawell-buoy “Waverider” – 29400.070 kHz - USA north-east coast – NY daily, all day
DK2OM	29450,0	---	--	03	MRC		F1B	81.9	140	Datawell-buoy “Waverider” – 29449.863 kHz - area of El Aaiun – Morocco - daily, all day
DK2OM	29500,0	---	--	03	G		F1B	81.9	140	Datawell-buoy “Waverider” – 29499.974 kHz- area of Gibraltar – daily, all day
DK2OM	29525,0	---	--	03	MRC		F1B	81.9	140	Datawell-buoy “Waverider” – 29524.990 kHz - Agadir - Morocco – daily, all day
DK2OM	29625,0	---	--	03	USA		F1B	81.9	140	Datawell-buoy “Waverider” – 29625.024 kHz - USA north-east coast – daily, all day
DK2OM	29685,0	---	--	03	I		VFT		2300	Italian MIL - Brescia
DK2OM	29699,5	---	--	03	I		VFT		1600	Italian MIL - Brescia

### IRTS – Ireland – EI3GYB (Michael)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	DETAILS
IRTS	1843	2108	21	03	E or MM		USB	Group of Spanish fishermen, all males.
IRTS	3520	1801	09	03	UKR /RUS		USB	Several female voices exchanging messages in Russian. Sounds like military. Audio not great.
IRTS	3535	1233 to 1305	15	03	UK		USB	2 male Scottish fishermen
IRTS	3535	2008	17	03	E or MM		USB	2 male Spanish fishermen.
IRTS	3536.9	1300	13	03	HOL or MM		USB	2 male Dutch fishermen, weak signal.
IRTS	3566.5	1613 to 1620	14	03	IRL or MM		USB	2 male Irish fishermen. East coast accent. Plenty of foul language like “fuck” and “shyte”. “I’ll give you a shout later on!” Medium strength signal.
IRTS	3568.6	0830	05	03	F or MM		USB	Group of 3 male French fishermen. Loud motor noise. Huge signals.
IRTS	3630	1208	09	03	IRL or MM		USB	2 Irish male fishermen. Heavy Ulster accent. Very strong signals. Plenty of foul language. Stopped talking at 1217 UTC. Back at 1238 UTC for a quick chat.

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	DETAILS
IRTS	3659	0841	14	03	HOL or MM		USB	2 male Dutch fishermen. Very strong signal. Typical motor noise in the background.
IRTS	3720	1333	06	03	HOL or MM		USB	2 male Dutch fishermen. Medium signal.
IRTS	3765	1324 to 1347	16	03	IRL or MM		USB	2 male Irish fishermen. One is called Column. Heard him many times in the past. Cork accent. Loud motor noise coming from both ships. Complaining about not catching enough fish: "Fuck all fish in the net!" Talking also about betting on horses.
IRTS	5100	1020	03	03	F or MM		USB	Several male French fishermen. Very loud signals and strong motor noise in the background. Also heard on the 5 <sup>th</sup> of March on 6170 KHz right inside the 49 metre BC band at 1107 UTC and on the 7 <sup>th</sup> of March at 1140 UTC on 6179 KHz.
IRTS	5345	1207	09	03	F or MM		USB	2 male French fishermen. Loud signing and a lot of talk. Medium signal. Also heard on the 10 <sup>th</sup> of march at 1145 UTC.
IRTS	5352	1753 to 1835	19	03	I		CW	German HAM on holidays in Sardinia using 5 MHz without permission, causing a huge pile-up.
IRTS	5360	0416 to 0426	02	03			USB	2 male Maghreb fishermen having a chat.
IRTS	5370	1549	15	03	POR or MM		USB	2 male Portuguese fishermen talking.
IRTS	5370	1015	21	03	E or MM		USB	2 male Spanish fishermen.
IRTS	5400	1650	01	03	POR or MM		USB	2 male Portuguese fishermen. Very strong signals. Heard also on the 2nd of March at 1337 and 1641 UTC.
IRTS	5400	1055 to 1108	24	03	F or MM		USB	2 male French fishermen, Splattering up and down.
IRTS	5400	1550	28	03	E or MM		USB	2 male Spanish fishermen. This frequency is very popular among fishermen from many nations and is used most days.
IRTS	5398.5	1425	05	03	D		USB	A well- known German HAM calls for a UK SOTA activation operator to follow him down to 5363 KHz.
IRTS	5532	1150	10	03	UK		USB	2 male Scottish fishermen. Very strong signals.
IRTS	5840	1313	01	03	UK		USB	UK fishermen just saying good bye. Frequency just outside the 49 metre BC band.
IRTS	6146	0245	15	03	E or MM		USB	2 male Spanish fishermen. Very strong signals. Right in the 49 metre BC band.
IRTS	6171.7	1439	07	03	UK		USB	2 male Scottish fishermen. Strong accent. Huge signal with loud motor noise in the background. Right in the 49 metre BC band.
IRTS	7000	1502 to 1525	14	03	I		LSB	Several male voices chatting in Italian. Also on the 17 <sup>th</sup> of March one Italian male voice with an endless monologue from 1720 to 1810 UTC
IRTS	7000	1815 to 1838	17	03	INS or MM		LSB	2 male Indonesian fishermen. Heard on many days during the month on the same frequency after 1700 UTC.
IRTS	7050	1530	14	03	UKR /RUS		LSB	Ukrainian-Russian radio war. Shouting of propaganda. Music. Heard very often during the month.
IRTS	7055	1650	02	03	UKR /RUS		USB	Ukrainian-Russian propaganda war. Music (Kalinka) and several male voices shouting slogans. Heard on many other days as well.
IRTS	7120	1725	05	03	SOM		AM	Radio Hargeysa. Very strong. MX and chat.
IRTS	7175	1757	17	03	ERI		AM	Radio Eritrea, strong signal. Heard many days.
IRTS	8657.9	1344	01	03	UK		USB	Scottish fishermen, all males. Very strong signals. Loud motor noise, announcements via loudspeakers and several other voices in background. One person is called David and he

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	DETAILS	
									says he is not too far away from retirement. The show goes on for more than an hour.
IRTS	10095	0705	27	03			USB		Radar from 10095 to 10116 KHz. Very strong and persistent.
IRTS	10111.1	1136	26	03			USB		2 male persons with Maghreb Arab accent having a heated discussion. Very strong signals.
IRTS	10123	1357	13	03	POR or MM		USB		2 male Portuguese fishermen.
IRTS	10134	1536	15	03			USB		2 male voices with Maghreb Arab accent chatting busily.
IRTS	10135	2128	21	03					Radar from 10135 to 10163 KHz.
IRTS	10150	1104	26	03	E or MM		USB		2 male Spanish fishermen
IRTS	10152	1939	08	03	MRC or MM		USB		Group of several Maghreb fishermen. Very strong signal splattering down to 10149.5 KHz.
IRTS	14191	1145	27	03	RUS		F1B		RUS navy, Kaliningrad. Many days audible.
IRTS	14295	1229	12	03	TJK		AM		Radio Tadjikistan, 3 <sup>rd</sup> harmonic. Heard many times during the month.
IRTS	21352.5	1517	15	03			Digi		Strong digital signals, probably a North Korean embassy in Western Africa.
IRTS	21434.3	1326	01	03					Radar from 21434.3 to 21463.5 KHz.

### KARS – Kuwait – 9K2RR (Faisal)

### MRASZ – Hungary - HA7PL (Laci)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	DETAILS
MRASZ	3538,00	1808	28	3			OTHR		50 Hz
MRASZ	3548,00	2021	11	3			F1B	500	
MRASZ	3566,00	1946	13	3			PSK2		AT3004D
MRASZ	3568,00	1652	7	3			F1B	250	
MRASZ	3584,00	1811	28	3			USB		unidentified
MRASZ	3586,00	1807	28	3			F1B	200	
MRASZ	3619,00	1937	28	3			A1A		dashes, deliberate disturbance
MRASZ	3702,00	1756	28	3			F1B	200	
MRASZ	7000,00	2055	30	3			N0N		
MRASZ	7023,00	1322	31	3			OTHR		50 Hz, 7013-7033 kHz
MRASZ	7037,00	1518	17	3			PSK2		AT3004D
MRASZ	7040,00	1256	17	3			OTHR		7035-7045 kHz
MRASZ	7045,00	1644	17	3			OTHR		7030-7050 kHz, hrd: at 1659; 1732 ÚT
MRASZ	7050,00	1345	15	3			LSB		russian, talk politics
MRASZ	7050,00	1552	16	3			LSB		russian chaos
MRASZ	7055,00	1153	9	3			LSB		russian chaos, cursing, disturbing etc.
MRASZ	7055,00	1345	15	3			LSB		russian chaos, cursing
MRASZ	7055,00	1408	30	3			LSB		russian chaos, music, "Radio Putin", "Radio Russia"
MRASZ	7055,00	0934	31	3			LSB		russian/ukrainian chaos
MRASZ	7090,00	1320	31	3			FAX		weather info?
MRASZ	7110,00	1337	15	3			F1B	500	
MRASZ	7110,00	1315	17	3			F1B	500	
MRASZ	7120,00	1650	7	3	SOM		A3E		R. Hargaysa, hrd every day
MRASZ	7172,00	1542	21	3			PSK2		AT3004D
MRASZ	14000,00	1200	15	3			N0N		
MRASZ	14000,00	1557	16	3			N0N		
MRASZ	14135,00	0807	12	3			OTHR		14130-14140 kHz
MRASZ	14215,00	1326	31	3			OTHR		14210-14220 kHz
MRASZ	14295,00	1559	4	3	TJK		A3E		Radio Tajik, 3rd. harmonic, hrd: 13, 30, 31
MRASZ	21058,00	1459	30	3			OTHR		21045-21070 kHz

## OEVSV – Austria – OE3GSA (Gerd)

## PZK – Poland – SP9BRP (Jan)

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

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	DETAILS	
REF	7048.0	0530	01	03	RUS	Russian Military	CW	Responses 4 outstations from NCS WG50 (For information : The NET is frequency 7591 kHz) – Traffic heard : calling, exchanges QSA and QTCs	
REF	7048.0	0721	05	03	RUS	Russian Military	CW	Responses 4 outstations from NCS WG50 (For information : The NET is frequency 7591 kHz) – Traffic heard : calling, exchanges QSA and QTCs	
REF	7048.0	0622	18	03	RUS	Russian Military	CW	Responses 4 outstations from NCS (For information : The NET is frequency 7591 kHz) – Traffic heard : calling, exchanges QSA and QTCs	

## REP – Portugal – CT4AN (Jose Francisco)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REP	3505	20.04	13	03			BPSK	120		AT3004D modem, 12x120bps 3k pilot
REP	3515	22.19	02	03	MRC		J3E-U			Fishermen
REP	3520	21.18	24	03	RUS		H2A	10		Enigma M01B, carrier plus two tone CW msg
REP	3525	21.41	10	03	E		J3E-U			Fishery
REP	3545	10.49	05	03	E		J3E-U			Fishery
REP	3552	20.05	13	03			PSK2			Unit STANAG 4285, USB and LSB tx
REP	3575	19.05	01	03	E		J3E-U			Fishery, CRY2000
REP	3659	07.28	16	03	F		J3E-U			French fishery
REP	3715	20.43	23	03	RUS		H2A	10		Enigma M01B, carrier plus two tone CW msg
REP	3737	07.26	16	03	F		J3E-U			French fishery
REP	7000	17.16	21	03	F		J3E-U			Intruders
REP	7000	20.13	15	03	B		J3E-U			Brazilian fishery, everyday
REP	7000	07.50	16	03			J3E-U			Unid language intruders
REP	7000	21.24	23	03	B		J3E-U			Brazilian fishery w/phone patches, everyday
REP	7010	16.02	03	03	MRC		J3E-U			Fishermen
REP	7010	15.33	03	03			MFSK			Mil-ALE [TO]: 920
REP	7020	22.08	11	03	RUS	V	A1A			Beacon
REP	7022	09.05	16	03	E		J3E-U			Unid Spanish comms
REP	7024	18.39	09	03			F1B	75	250	Unid encrypted F1B
REP	7030	20.14	10	03			F1B			Unid F1B, not Amateur Radio
REP	7039	22.22	09	03	RUS	K	A1A			PETROPAVLOVSK, ADY, DLY
REP	7039	22.44	13	03	RUS	M	A1A			MAGADAN ???
REP	7039	23.55	04	03	RUS	C	A1A			MOSCOW, ADY, DLY
REP	7039	22.12	26	03	RUS	F	A1A			VLADIVOSTOK, ADY, DLY
REP	7120	19.15	14	03	SOM		8k00 A3EGN			Radio Hargaysa
REP	7150	14.50	05	03	RUS		FMCW	50	13k	OTH radar Contayner
REP	7175	19.15	24	03	ETH		8k00 A3EGN			Radio Eritrea
REP	7175	17.43	21	03	ETH		A3E			Voice of the Broad Masses
REP	7185	14.00	12	03			MFSK			Mil-ALE secall
REP	10102	08.34	29	03			J3E-U			Unid Arabic language fishery net
REP	10115	20.39	14	03	E		J3E-U			Spanish fishery
REP	10118	20.37	15	03	E		J3E-U			Spanish fishery
REP	10120	18.51	08	03	MRC		J3E-U			Fishery
REP	10125	12.05	20	03	E		J3E-U			Fishery
REP	10130	17.00	18	03			MFSK			Mil-ALE 304003
REP	10134	11.15	08	03	MRC		J3E-U			Moroccan fishery
REP	14000	10.47	08	03	B		J3E-U			Brazilian fishery, everyday
REP	14035	19.15	28	03	E		J3E-U			Fishery
REP	14040	11.02	10	03			J3E-U			Unid Arabic fishery net
REP	14180	10.19	01	03	RUS		F1B	50	200	CIS36 encrypted modem, Russia mil



SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REP	14258	15.50	01	03	E					Fishermen
REP	14259	10.11	15	03			PSK2	120		CIS12 modem, 12x120bps
REP	14300	12.00	11	03	RUS		FMCW	50	18k	OTH radar, Russia
REP	18065	14.36	13	03	CYP		FMCW	50	20k	Cyprus OTH Radar, up to 18075kHz
REP	21060	12.13	16	03	E		J3E-L			Fishermen
REP	21070	13.05	19	03			FMCW	50	20k	OTH radar
REP	28140	11.00	10	03	RUS		F3E			Russian taxis female dispatchers
REP	28280	11.33	22	03	RUS		F3E			YL taxis dispatcher Dly
REP	28305	15.07	11	03	B		A3E			Brazilian intruders, 24/7
REP	29250	12.45	08	03			F1B	82	140	Datawell GPS buoy

## RSGB - Great Britain – M0VRR (Vaughan)

## SRAL – Finland – OH2BLU (Pekka)

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
SRAL	7006,5	0945-1012/	18.27.	3		UiPTR	F1B/N0N		200/250	
SRAL	7008,0	0830-0925/	21.	3		UiPTR	F1B		250	
SRAL	7020,0	0625-1610/	25.31.	3		UiPTR	F1B		250	
SRAL	7024,0	1310-1540/	9.	3		UiPTR	F1B		250	
SRAL	7024,0	1625-1740	24.	3		UiMUX	PSK2	120	2600	
SRAL	7030,0	1000-1900	*	3		UiPTR	F1B		250	Days: 10. 21. 25.
SRAL	7035,12	1150-1200/	2.	3		UiCarr	N0N			
SRAL	7037,0	0500-1530	17.29.	3		UiMUX	PSK2	120	2600	
SRAL	7051,0	1550	25.	3		UiPTR	F1B		200	
SRAL	7056,0	0950-1000	21.	3		UiMUX	PSK2	120	2600	
SRAL	7072,0	1300-1545/	15.21.	3		UiMUX	PSK2	120	2600	
SRAL	7076,0	1100-1430	6. 20.	3		UiMUX	PSK2	120	2600	
SRAL	7076,0	0600-0720/	20.	3		UiPTR	F1B		250	
SRAL	7111,0	1245-1405/	13.	3		UiPTR	F1B/A		250	
SRAL	7120,0	/0330-0530/	dly	3	SOM	R.Hargeis a	A3E			
SRAL	7120,0	/1500-1900/	dly	3	SOM	R.Hargeis a	A3E			
SRAL	7122,0	0520	28.	3		UiMUX	PSK2	120	2600	
SRAL	7137,0	1630-1930	13.15.	3	RUS	UiPTR	F1B/N0N		250	
SRAL	7142,0	1130	21.	3		UiPTR	F1B		250	
SRAL	7144,0	1015-1030/	2.	3		UiMUX	PSK2	120	2600	
SRAL	7162,0	0620-1040/	21.23.	3		UiPTR	F1B		250	
SRAL	7169,0	1445-1455	24.	3		UiPTR	F1B		250	
SRAL	7175,0	1430-1845/	*	3	ERI	VoBM	A3E			Days: 17. 18. 21. 23. 24. 27. 29. 30. Jammed 1500-1700
SRAL	7176,0	0700-1054/	*	3		UiPTR	F1B		250	Days: 6. 8. 16.
SRAL	7177,8	1230-1425/	27.	3		UiCarr	N0N			
SRAL	7184,0	1445-1530	17.	3		UiMUX	PSK2	120	2600	

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
SRAL	7198,0	1115-1515/	21. 27.	3		UiMUX	PSK2	120	2600	
SRAL	7 MHz	0345-1930	*	3	RUS	29B6	FMCW			50Hz / 15 kHz (WebSDR 8d) days: 5. 10. 17. 24. 25. 31.
SRAL	7 MHz	0600-1500	*	3	RUS	UiOTHR	FMCW			10Hz / 15 kHz, 30 sec, with 16 min cycle. Days: 6. 7. 10. 21.
SRAL	10 MHz	1545-0530		3	RUS	29B6	FMCW			50Hz / 15 kHz (WebSDR 14d)
SRAL	14180,0	0600-1350	*	3	RUS	UiPTR	F1B/A		250	Days: 1. 6. 7. 8. 10. 18. 26. 27.
SRAL	14221,0	0500-0600/	*	3	KGZ	UiPTR	F1B		200	Days: 27. 28. 29.
SRAL	14253,0	0655-0845	6. 20.	3		UiPTR	F1B		250	
SRAL	14295,0	0430-1445	dly	3	TJK	R Tojikiston	A3E			3f 4765,00 kHz, Yangiyul TX
SRAL	14 MHz	1240-1305	1.	3	RUS	29B6	FMCW			50Hz / 15 kHz, (WebSDR 3d)
SRAL	14 MHz	0500-1430	dly	3	RUS	UiOTHR	FMCW			10Hz / 15 kHz, 30 sec, with 16 min cycle.
SRAL	18 MHz	0650-0705/	16.	3	CYP / TUR	UiOTHR	FMCW			25/50Hz / 20 kHz, (WebSDR 21d)
SRAL	21 MHz	1045-1340	*	3	CYP / TUR	UiOTHR	FMCW			25/50Hz / 20 kHz, days: 5. 10. 29. (WebSDR 14d)
SRAL	21438,0	1100-1120	6.	3	RUS	RCV	A1A			
SRAL	24 MHz	1220		3		UiOTHR	FMCW			(WebSDR 0d)
SRAL	28960,0	0730-0830	1.	3	IRN	UiOTHR	FMCW			150 & 313 Hz / 60 kHz
SRAL	28 MHz			3		UiOTHR	FMCW			25/50Hz / 20 kHz (WebSDR 0d)
SRAL	28 MHz			3	RUS	Taxi disp.	F3E			no reports

### USKA – Switzerland – HB9CET (Peter)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	3505.0	2027	13	03			J7D	12x120	2k7	BPSK; CIS12
USKA	3544.0	2352	15	03			F1B	50	200	
USKA	3546.0	2118	30	03			J7D	12x120	2k7	BPSK; CIS12
USKA	3548.0	2322	02	03			F1B	50	200	
USKA	3548.5	0001	16	03			J7D	12x120	2k7	BPSK; CIS12
USKA	3549.0 VFO USB	2043	13	03			PSK8	2400	~2k7	MIL188-110A (Hybrid), often preamble 4 tones, 450Hz spacing
USKA	3550.0	2317	02	03			J7D	12x120	2k7	BPSK; CIS12
USKA	3552.0	2042	13	03			F1B	50	250	
USKA	3553.8	2044	13	03			G1D	2400	~2k4	Stanag 4285; PSK8 almost daily
USKA	3568.0	2351	15	03			F1B	50	250	
USKA	3610.0	2348	15	03			DQPSK	14x75	5k9k	LINK 11 CLEW DSB mode
USKA	3615.0	2121	30	03			J7D	12x120	2k7	QPSK; CIS12
USKA	3649.875	2124	30	03			A1A			Jammer, fast dots only; stupid
USKA	3650.0	2124	30	03			F1B	50	250	jammed
USKA	3676.0	2132	30	03			F1B	50	250	
USKA	7001.0	0744	22	03			OFDM60	30	~2k7	PSK-4B modulated, tone spacing 44.44Hz; pilot tone at 3k3
USKA	7010.0	1808	21	03			MFSK8	125	1750	MIL 188-141A
USKA	7010.0	0648	31	03		CS002A	MFSK8	125	1750	MIL 188-141A; To: RS005A
USKA	7016.0	0940	10	03			F1A		250	
USKA	7016.0	0944	10	03			F1B	75	250	often
USKA	7018.0	0859	14	03			J7D	12x120	2k7	BPSK; CIS12 system
USKA	7019.3	0910	14	03			A0			Jammer (strong carrier over pilot)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	7023.875	1422	09	03			A1A			Jammer, fast dots only; stupid
USKA	7024.0	1422	09	03			F1B	75	250	often
USKA	7024.0	1527	09	03			J7D	12x120	2k7	BPSK; CIS12 system
USKA	7024.0	1137	23	03			F1B	75	200	often
USKA	7026.0	1027	23	03			J7D	12x120	2k7	QPSK; CIS12 system
USKA	7030.0	2110	30	03			J7D	12x120	2k7	BPSK; CIS12 system
USKA	7033.0	0824	20	03			digital		~2k8	strong fading.maybe OFDM
USKA	7034.0	1803	21	03			FMCW	50 sps	~13k	OTHR; occup. BW appx 30k Contayner 29B6
USKA	7034.875	1452	09	03			A1A			Jammer, fast dots only; stupid
USKA	7035.0	1453	09	03			F1B	75	250	
USKA	7035.0	0825	31	03			J7D	12x120	2k7	BPSK; CIS12 system
USKA	7039.4	2011	21	03	RUS	M	A1A			Beacon M Magadan
USKA	7051.0	0805	22	03			F1A		200	
USKA	7051.0	0807	22	03			F1B	50	200	
USKA	7068.0	1500	16	03			PSK8	2400	~2k4	MIL188-110
USKA	7068.0	1548	16	03			J7D	12x120	2k7	BPSK; CIS12 system
USKA	7070.0	1749	13	03		514	MFSK8	125	1750	MIL 188-141A, To: 288 often
USKA	7070.0	1809	13	03		820299	MFSK8	125	1750	MIL 188-141A, often
USKA	7070.0	1810	13	03		288	MFSK8	125	1750	MIL 188-141A, often
USKA	7111.0 VFO LSB	1011	17	03			BPSK	30x60Bd	~2k5	Burst system; tone spacing 75 Hz. Preamble 4x PSK4 60Bd, spacing 600Hz; Pilottone at 450Hz
USKA	7114.0	0843	15	03			J7D	12x120	2k7	BPSK; CIS12 system
USKA	7120.0	1739	13	03	SOM		A3E		10k	Radio Hargaysa daily
USKA	7122.0	0757	13	03			F1B	75	250	
USKA	7134.0	0932	14	03		DTTYP	MFSK8	125	1750	MIL 188-141A: To DATEH; LQA followed by MIL 188-???
USKA	7134.0	0934	14	03		DATEH	MFSK8	125	1750	MIL 188-141A: To DRYHD (LQA)
USKA	7134.0	0938	14	03		DRYHD	MFSK8	125	1750	MIL 188-141A: To DCOIY (LQA)
USKA	7155.0	1846	21	03			A3E		10k	Voice and short Music
USKA	7157.0 VFO USB	1507	30	03			OFDM112	22.8	~3k	tone spacing 22.65Hz, pilot tone at 3300Hz
USKA	7161.875	0949	09	03			A1A			Jammer, fast dots only; stupid
USKA	7162.0	0944	09	03			F1B	75	250	
USKA	7169.0	0838	15	03			F1B	50	200	
USKA	7172.0	1027	17	03			FMOP	2.6 sps	30k	OTHR
USKA	7174.995	1531	30	03	ERI		A3E		10k	BC; VOBM - voice of the broad masses: Eritrea (jammed)
USKA	7175.0	1531	30	03			Noise		≥ 15k	Jammer
USKA	7176.0	0929	14	03			J7D	12x120	2k7	BPSK; CIS12 system (strong via JA)
USKA	7178.0	1000	14	03			J7D	12x120	2k7	QPSK; CIS12 system
USKA	7180.0	1925	28	03		9046	MFSK8	125	1750	MIL 188-141A
USKA	7192.5	0906	14	03			J7D	12x120	2k7	BPSK; CIS12 system
USKA	14008.0	1041	03	03			F1B	50	250	often
USKA	14044.0	0920	16	03			F1B	75	247	
USKA	14180.0	1014	09	03		RDL	F1A	50	250	
USKA	14180.0	1015	09	03		RDL	F1B	36+50	250	CIS 36-50 almost daily
USKA	14192.0	1221	19	03			F1B	50	200	almost daily
USKA	14240.0	0957	17	03			F1B	50	250	
USKA	14253.0	1302	15	03			J7D	12x120	2k7	BPSK; CIS12 system
USKA	14261.0	0916	14	03			OFDM60	35.55	~2k7	PSK-4B modulated, tone spacing 44.44Hz; pilottone at 3k3 often
USKA	14295.1	1003	09	03	TDJ		A3E		~9k	3rd from 4765 – Radio Tajikistan
USKA	14328.0	1002	17	03			FMOP	10 sps	160k	OTHR
USKA	14342.0	1131	23	03			J7D	12x120	2k7	BPSK; CIS12 system
USKA	18090.0	0947	29	03			FMCW	50 sps	20k	OTHR
USKA	18100.0	1016	22	03		G2	MFSK8	125	1750	MIL 188-141A; To: G4
USKA	18100.0	1200	30	03		C3	MFSK8	125	1750	MIL 188-141A
USKA	18107.0	1037	09	03		RDL	F1B	36+50	200	CIS 36-50 often
USKA	21145.0	1116	30	03		G2	MFSK8	125	1750	MIL 188-141A; LQA
USKA	21145.0	1130	30	03		L601	MFSK8	125	1750	MIL 188-141A; LQA
USKA	21145.0	1134	30	03		A2	MFSK8	125	1750	MIL 188-141A

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	21145.0	1140	30	03		C3	MFSK8	125	1750	MIL 188-141A
USKA	21210.0	1206	19	03			FMCW	25 sps	20k	OTHR
USKA	21353.5	1351	18	03			FSK	1200	1200	Burst ARQ system often
USKA	29249.90	1542	30	03			F1B	81.92	140	Datawell buoy; Canary Isl

### Veron – Netherlands – PA2GRU (Dick)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SHIFT	DETAILS
VERON	3524,0	17.43	24	3		UiPTR	F1B		Ptr
VERON	3548,0	18.54	11	3	CIS	UiPTR	F1B		Revs/Ptr
VERON	3625,0	15.43	20	3		UiPTR	F1B		Fast Revs
VERON	3797,0	19.00	11	3	RUS	RCV	A1A		RIC87 de RCV QTC 154 Prip Noworossijsk
VERON	3797,0	19.04	11	3	RUS	RCV	A1A		RIC87 de RCV QTC 102 Prip Noworossijsk
VERON	7008,0	18.46	15	3	RUS	UiCAR	NON		carrier
VERON	7008,0	08.07	22	3	RUS	UiPtr	F1B		Ptr
VERON	7020,0	10.44	25	3		UiPtr	F1B		Ptr
VERON	7024,0	19.22	9	3	RUS	UiPtr	F1B	250	Ptr
VERON	7080,0	19.53	24	3		UiPtr	F1B	200	Ptr
VERON	14008,0	11.00	9	3	RUS	UiCAR	NON		carrier
VERON	14008,0	08.00	26	3	RUS	UiPtr	F1B		Ptr
VERON	14008,0	11.14	30	3	CIS	UiPTR	F1B		Carrier/Revs/Ptr
VERON	14044,0	12.32	16	3	CIS	UiPtr	F1B	250	Ptr
VERON	14160,0	09.26	12	3	CIS	UiCW	A1A		OK GNGchK
VERON	14160,0	09.28	12	3	CIS	UiCW	A1A		Strings of Cyrillic Morse
VERON	14180,0	12.50	16	3	RUS	UiPtr	F1B	250	Ptr
VERON	14180,0	11.15	1	3	CIS	UiPTR	F1B		Revs/Ptr also 2/3 09.25 14/3 09.18
VERON	14180,0	09.26	10	3	RUS	RDL	F1A		RDL 35999 09370 k
VERON	14180,0	09.06	28	3	RUS	RDL	F1A		RDL 85733 95058 k
VERON	14180,0	09.11	28	3	RUS	RDL	F1A		RDL 72345 63221 k
VERON	14180,0	11.24	30	3	CIS	WEGI	F1A		XXX WEGi 31510 90429 OTBRAKOWKA
VERON	14180,0	11.35	30	3	CIS	WEGI	F1A		XXX WEGI 80474 50190 TaVOPLAN 8158
VERON	14180,0	11.48	30	3	RUS	RGT77	F1A		XXX RGT77 61154 15717 POLaK 4058
VERON	14180,0	11.43	30	3	CIS	UiCW	F1A		UUU XXX followed by F1B Revs/Ptr
VERON	14253,0	08.42	27	3		UiPTR	F1B		Ptr

# The monitoring team of IARU Region 1

credits:

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**All HAMS, friends and contributors worldwide!**

**Many thanks for your interest!**

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