



International Amateur Radio Union

Region 1



# Monitoring System

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The monthly newsletter for Region 1

## February 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 ++ German PTT

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. 7000.007 – carrier from Israel

We found a long lasting carrier on 7000.007 kHz from Israel on Feb.19<sup>th</sup> at 1937 UTC.

### 2. Stanag-4285 on 40 m

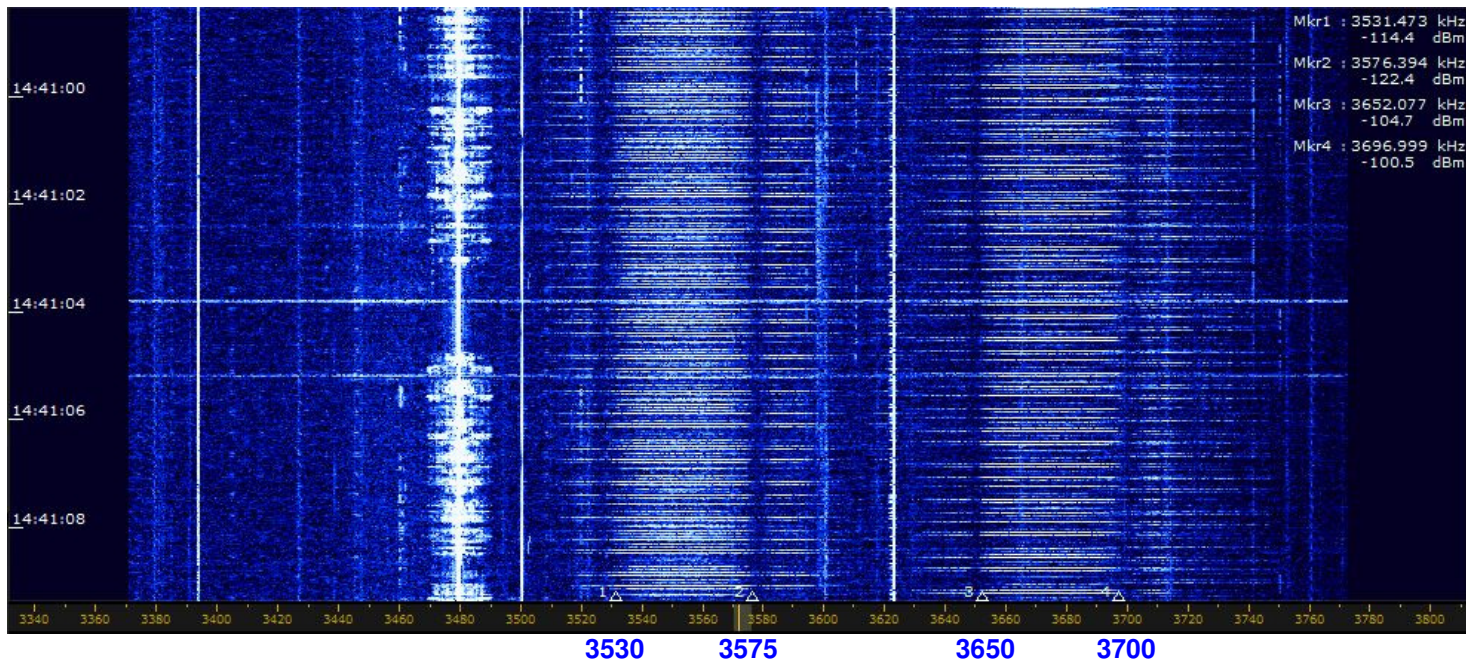
We observed a MIL-system "STANAG-4285" on 7101.8 kHz. The signal was strong in South America, but rather weak in Europe. We had the same problem in earlier times. Location probably Falkland Islands.

### 3. OTH radar on 80m-band from Far East

A Far East OTH radar is daily covering parts of the 80m-band..

Possibly the Russian originated coastal radar "Podsolnukh" = "Sunflower" with 43 sps. Location probably China.

Screenshot: DK2OM



### 4. 7193 kHz – Russian F1B from Kaliningrad no longer

The Russian F1B on 7193 kHz (50 Bd and 200 Hz shift) was no longer active on the end of February. Perhaps the complaint of the German PTT in Konstanz was helpful. Many thanks to BNetzA Konstanz.

### 5. 7205 kHz – RFI repaired now

The splatters from Radio France International on 7205 kHz disappeared. Many thanks to our involved French Hams and of course to the engineers of RFI!

### 6. Spanish fishery on 80 m-band

Spanish fishermen abused the CW-part of 80 m on USB for their chats as usual often in the evenings.

### 7. Russian F1B on 14308 kHz – legal operation

We observed a Russian F1B (75 Bd – 500 shift) (location Moscow) for several days. An official complaint was not possible, because the transmissions were legal. An ITU footnote says:

**5.152**

**Additional allocation:**

***in Armenia, Azerbaijan, China, Côte d'Ivoire, the Russian Federation, Georgia, Iran (Islamic Republic of), Kazakhstan, Uzbekistan, Kyrgyzstan, Tajikistan, Turkmenistan and Ukraine, the band 14 250-14 350 kHz is also allocated to the fixed service on a primary basis. Stations of the fixed service shall not use a radiated power exceeding 24 dBW. (WRC-03)***

**Many thanks to PA2GRU and HB9CET for this information!**

### 8. Far East activities on 40 m

Codan Selcall-systems with 100 Bd and 170 Hz shift. Exact location and purpose unknown.

OFDM 39 (aka PRC 39) from China with 44.44 Bd/carrier

Chinese burst system PRC 30

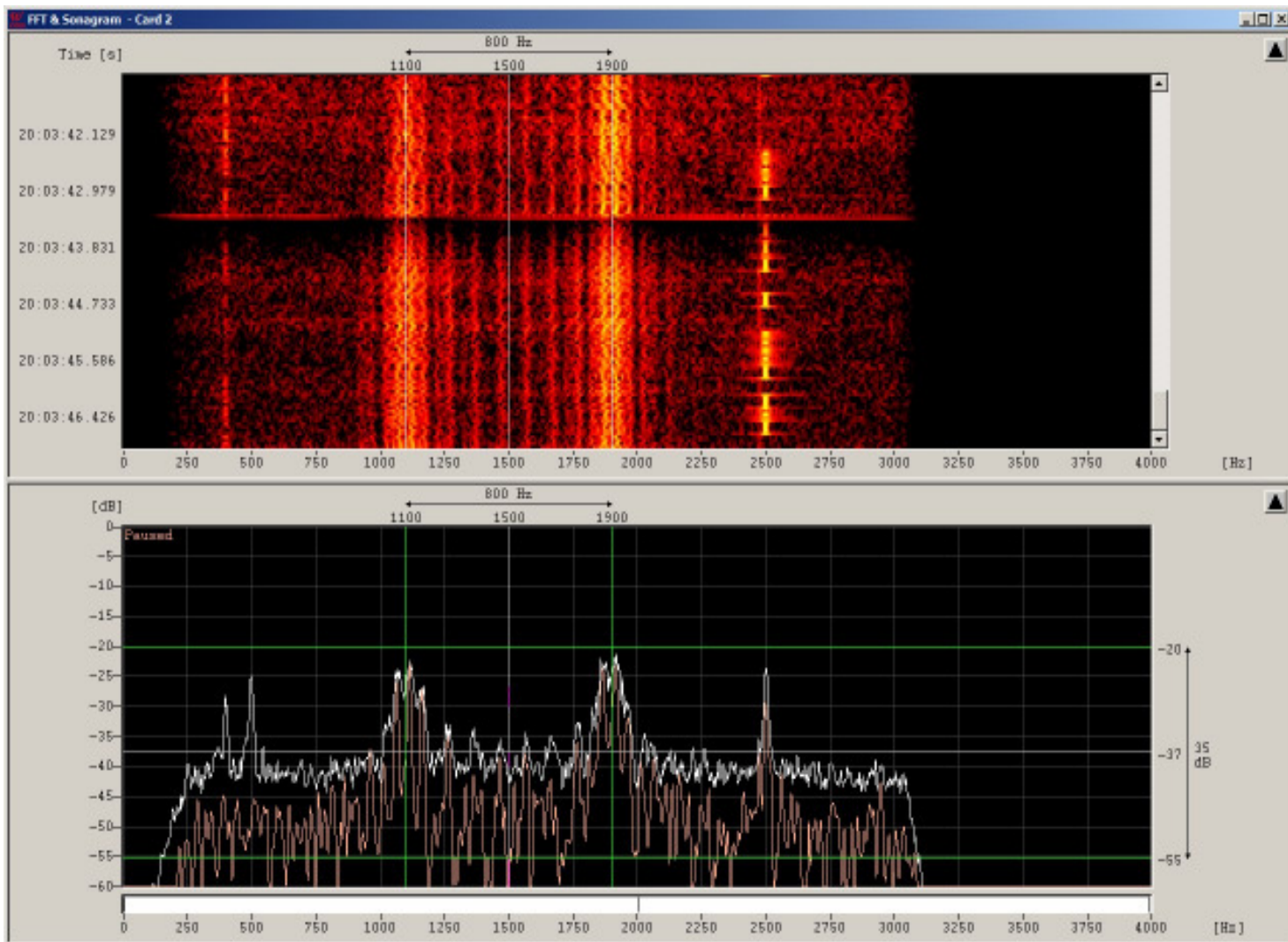
Several ALE-systems (MIL-188-141A) from China and Taiwan



Chinese OTH radars  
BC Radio Taiwan jammed by Chinese transmissions  
CODAR-like ocean surface radars with 2.6 sps and 32 kHz wide – location unknown  
(please observe my table)

### 9. REA4 (Moscow) on 7018 kHz

We found a strong F1B on 7018 kHz (100 Bd, 800 Hz shift) on Feb. 21<sup>st</sup>. The system was well known from earlier times. The ident was “REA4”, operated by the Russian airforce in Moscow. **Screenshot with Wavcom W-Code.** You can see the unclean emission.



### 10. OTH radar emissions

The Chinese broadband OTH radar was observed on 14026 – 14186 kHz with 10 sps.  
The Russian OTH radar Contayner disturbed parts of 7 and 14 MHz with 10 and 50 sps covering 13 kHz bandwidth (without splatters).  
On 18 and 21 MHz we were suffering from the Turkish and Cyprus radars as usual.  
Due to bad conditions the observation of our upper bands was not senseful or impossible.

### 11. Miscellaneous :

7000.0 kHz – Buzzer from 6998.0 kHz, location Moscow, disappeared.  
7120.0 kHz – Radio Hargaysa Somalia  
7175.0 kHz - Radio Eritrea with Ethiopian QRM – gone ?  
7200.0 kHz – Radio Taiwan and Chinese jammer  
14295.0 kHz - Radio Tajik (harmonic from 4765 kHz)  
21438.0 kHz – Russian Navy Sevastopol on A1A again as usual

### 12. Homepage IARU Region 1

Homepage IARUMS Region 1

Homepage IARUMS Region 2

Homepage IARUMS Region 3

Intruderlogger Region 1

ITU-Monitoring Reports

<http://www.iaru-r1.org/>

<http://www.iarums-r1.org>

<http://www.iaru-r2.org/>

<http://iaru-r3.org/iaru-region-3-monitoring-system-newsletter/>

<http://peditio.net/intruder/bluechat.cgi>

<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 FEBRUARY 2017

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

#### ARSK – Kenya – 5Z4BV (Kamweti)

H'd by	kHz	UTC	dd	mm	Adm	Identity	MODE	Details
ARSK	7.000,00	vt	dly	02	E. Africa	?	J3E-u	Unidentified, KiSwahili, Kenya. Possibly military.
ARSK	7.040,00				E. Africa	?	J3E-u	Ungrammatical KiSwahili
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			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	7.164,00	vt	dly		E. Africa	?	J3Eu	Military? Phonetics, messages.
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 17 OTH radars on 40 m, 15 OTH radars on 20 m, 86 OTH radars on 17m, 84 OTH radars on 15 m and 0 OTH radars on 10 m in February 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	1110	02	02	D		QRM			3.5 - 30 MHz disturbed by a neighbouring LED lamp – daily - various times
DK2OM	1812,0	2040	08	02	RUS		USB LSB			14 tones – hyperbolic radio navigation system – BRAS-3/RS-10 – Kaliningrad – no carrier - daily, all day
DK2OM	1852,0	vt	dly	02	I	IPP	USB			Palermo Radio, weather reports
DK2OM	1855,0	vt	dly	02	I	IQP	USB			San Benedetto Radio, weather reports

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	1876,0	vt	dly	02	I	IQN	USB			Lampedusa Radio, weather reports
DK2OM	1888,0	vt	dly	02	I	IPD	USB			Civitavecchia Radio, weather reports
DK2OM	1896,5	ady	dly	02	D		PSK8	2400	2400	Stanag4285 – 600 bps long – German Navy – daily, all day
DK2OM	1925,0	vt	dly	02	I	IPL	USB			Livorno Radio, weather reports
DK2OM	3500,0	vt	dly	02	TUR		FSK8	125	1750	ALE, “2016” “4017” – Turkish Red Crescent – just for info!
DK2OM	3500,0	1825	07	02	D		QRM			<b>disturbed by a neighbouring LED lamp with S9</b>
DK2OM	3500,0	2040	15	02	CIS		A3E			<b>CIS pirates – unstable carriers</b>
DK2OM	3500,3	2044	24	02	CIS		A3E			<b>CIS pirates – unstable carriers</b>
DK2OM	3500,7	2016	08	02	CIS		A3E			<b>CIS pirates – unstable carriers</b>
DK2OM	3501,0	vt	vd	02	UKR		FSK8	125	1750	ALE, “B10” “X”
DK2OM	3503,0	2044	15	02	CIS		A3E			<b>CIS pirates – unstable carriers</b>
DK2OM	3503,5	vt	dly	02	G	no ITU	FSK8	125	1750	ALE – “XSS” “XPU” “XJR” – British MIL Tascomm – vt, daily - legal!
DK2OM	3509,5	1917	05	02	RUS		F1B	75	200	area of Moscow
DK2OM	3518,0	1747	01	02	FEa		FMOP		50k	Far East OTH radar – 43 sps – 3518 – 3568 kHz
DK2OM	3525,0	2120	01	02	F		PSK4	75	5800	LINK11-CLEW on both sidebands (5800 Hz wide) – area of Marseille – legal!
DK2OM	3527,0	---	--	02	RUS		F1B	50	200	Severomorsk
DK2OM	3527,0	1435	14	02	CHN		PSK4A USB	60	2350	PRC 30 tone modem - pilot tone 450 Hz
DK2OM	3530,0	1940	03	02	CHN		PSK4A LSB	60	2350	PRC 30 tone modem - pilot tone 450 Hz
DK2OM	3531,0	---	--	02	RUS	REA4	N0N			unclean carrier - RUS airforce Moscow, ident: 1940 utc - daily
DK2OM	3531,7	1819	14	02	PHL		PSK2A	1350	1350	bursts
DK2OM	3532,0	---	--	02	F		PSK4	75	5800	LINK11-CLEW on both sidebands (5800 Hz wide) – area of Brest – legal!
DK2OM	3535,0	2200	09	02	E		USB			<b>Spanish fishery</b>
DK2OM	3550,0	0730	dly	02	F		A3E			<b>French amateurs not respecting bandplans - daily</b>
DK2OM	3550,0	vt	vd	02	ALG	no ITU	FSK8	125	1750	ALE, “IU50” “IU52” “FN50”
DK2OM	3550,0	2115	18	02	E		USB			<b>Spanish fishery</b>
DK2OM	3550,7	vt	vd	02	ISR		PSK4 PSK8	75 2400	2400 2400	hybrid modem – ISR Navy – PSK4 parallel and PSK8 serial - legal operation!
DK2OM	3551,0	1609	02	02	CHN		FSK8	125	2600	ALE, “627”
DK2OM	3553,8	ady	dly	02	TUR		PSK8	2400	2400	Stanag4285 – 600 bps long - TUR MIL - Ankara – daily, all day - legal operation
DK2OM	3555,5	2025	13	02	G		USB			UK fishery
DK2OM	3560,0	2030	09	02	E		USB			<b>Spanish fishery</b>
DK2OM	3562,0	2004	15	02	RUS		PSK2A	120	2600	AT3004D – submode idle and traffic - Kaliningrad
DK2OM	3563,0	1930	12	02	CHN		PSK4A LSB	60	2350	PRC 30 tone modem - pilot tone 450 Hz
DK2OM	3574,5	2006	03	02	RUS		PSK2A	120	2600	AT3004D – submode idle - Sevastopol
DK2OM	3576,6	ady	dly	02	I	IZ3DVW	A1A			3576.550 - uncoordinated beacon – disturbing JT65
DK2OM	3582,0	2105	28	02	RUS		PSK2	120	2600	AT3004D – submode idle – area of Moscow
DK2OM	3585,0	ady	dly	02	TWN	HLL	FIC		800	WX-fax Taiwan - 120 rpm, IOC 576, - daily, all day - legal!

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	3586,0	1800	dly	02	G		PSK2A	40	40	encrypted – every evening Great Britain – purpose unknown
DK2OM	3587,0	vt	vd	02	E	no ITU	FSK8	125	1750	ALE, “TVV” “TXX” - Spanish Guardia Civil
DK2OM	3590,0	vt	dly	02	PAK	no ITU	FSK8	125	1750	ALE, “KW” “KHAIBAR” – Pakistan navy
DK2OM	3593,7	---	--	02	RUS	D	A1A			Cluster beacon – Sevastopol RUS Navy – “RCV”
DK2OM	3593,8	---	--	02	RUS	P	A1A			Cluster beacon – Kaliningrad RUS Navy – “RMP”
DK2OM	3593,9	---	--	02	RUS	S	A1A			Cluster beacon – Severomorsk RUS Navy – „RIT“
DK2OM	3594,0	---	--	02	RUS	C	A1A			Cluster beacon C - Moscow RUS Navy - “RIW”
DK2OM	3594,2	---	--	02	RUS	F	A1A			Cluster beacon F - Vladivostok RUS Navy - “RJS”
DK2OM	3595,0	---	--	02	RUS	K	A1A			Cluster beacon - Petropavlovsk Kamchatskiy - RUS Navy - Pacific fleet - “RCC”
DK2OM	3596,0	vt	vd	02	D		FSK8	125	1750	ALE, “DK0ESD” – just for info!
DK2OM	3596,0	vt	dly	02	J		FSK8	125	1750	ALE, “JH1ESB” – just for info!
DK2OM	3599,0 USB	1745	11	02	CHN		OFDM	44.44	2400	CHN MIL – OFDM 39
DK2OM	3617,0	vt	dly	02	HRV	9A5EX	FSK8	125	1750	ALE, “9A5EX” – HAM-ALE - just for info
DK2OM	3622,5	ady	dly	02	J	JMH	F1C		800	Tokyo Meteo – 120 rpm – IOC 576 – daily, all day - legal!!!
DK2OM	3640,0	vt	dly	02	G		FSK8	125	1750	ALE, “XSS” - British MIL Tascomm – just for info!
DK2OM	3642,0	ady	dly	02	CHN		A1A			loop – DKG6 de 3A7D Chinese military – daily, all day
DK2OM	3644,0	1719	25	02	CHN		FSK8	125	1750	ALE, “268” “472”
DK2OM	3646,0	1710	12	02	CHN		FSK8	125	1750	ALE, “228” “375” “520”
DK2OM	3649,0	vt	vd	02	ALG	no ITU	FSK8	125	1750	ALE, “BI20” PA20”
DK2OM	3662,0	1639	02	02	CHN		FSK8	125	1750	ALE, “311” “324”
DK2OM	3673,0	1729	12	02	CHN		FSK8	125	1750	ALE, “609” “922”
DK2OM	3696,0	1120	10	02	CHN		PSK4A USB	60	2350	PRC 30 tone modem - pilot tone 450 Hz
DK2OM	3699,0	vt	vd	02	ARS		FSK8	125	1750	ALE, “NAI” “RCI” – Saudi Arabian MIL
DK2OM	3704,0	2130	16	02	RUS		PSK2	120	2600	AT3004D – submode idle – Far East Russia
DK2OM	3705,0	1530	10	02	CHN		FSK8	125	1750	ALE, “101” “132”
DK2OM	3718,0	vt	vd	02	FEa	7CJK	A1A			loop “7CJK”
DK2OM	3720,0	vt	dly	02	S		FSK8	125	1750	ALE, “YU” “YT” “YV” “DZ” – Swedish MIL
DK2OM	3751,5	vt	dly	02	POL	no ITU	FSK8	125	1750	ALE, “IZ3” “MI3”
DK2OM	3756,0	1910	08	02	RUS		A3E			RUS MIL – channel marker – Tuapse – East Black Sea – night QRG – daily – even audible in Japan
DK2OM	3757,0	ady	dly	02	FEa	RIS9	A1A			“M8JF de RIS9” - loop
DK2OM	3761,5	vt	vd	02	POL	no ITU	FSK8	125	1750	ALE, “NI9” “PL7” “AB2” – Polish MIL
DK2OM	3772,0	ady	dly	02	FEa	A4JC	A1A			“A4JC” - loop
DK2OM	3777,0	1800	dly	02	FEa		A1A			“M8JF de RIS9” – loop – dly
DK2OM	3791,0	vt	vd	02	D	DK0ESD	FSK8	125	1750	ALE, “DK0ESD” – daily - just for info!
DK2OM	3797,0	ady	dly	02	FEa		A1A			“M8JF de RIS9” – loop
DK2OM	<b>5351,5</b>	<b>1941</b>	<b>08</b>	<b>02</b>	<b>D</b>		<b>QRM</b>			<b>disturbed by a neighbouring LED lamp with S9</b>
DK2OM	<b>5351,5</b>	---	--	<b>02</b>	<b>FEA</b>		<b>FMOP</b>		<b>58k</b>	<b>Far East OTH radar 5316 – 5374kHz – 43 sps – even audible in Europe (vy strong</b>

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										in Northern Europe) – covering weak CW-signals on 5351.5 – 5366.5 kHz
DK2OM	5352,0	1954	13	02	D		A1A			disturbed by a neighbouring LED lamp
DK2OM	6998,5	vt	dly	02	POL		FSK8 USB	125	1750	MIL-188-141A – “BU2” “OD6” “OL1” “SZ4” “ZE2” “MA3” until 7001.0 kHz – also voice traffic male and female - Polish MIL
DK2OM	7000,0	1406	04	02	INS		USB LSB			Indonesian pirates – daily – all day – singing - audible in Europe in the evenings
DK2OM	7000,0	---	--	02	RUS		H3E		3.4 k	buzzer – 1 sec bursts - 118 Hz AF rough sinus – carrier on 6998.0 + upper sideband - with spurious 10 kHz wide – daily, all day - Moscow
DK2OM	7000,0	1738	04	02	D		QRM			disturbed by a neighbouring LED lamp – every evening
DK2OM	7000,0	1838	06	02	FEa		FMOP		32k	Codar like ocean surface radar 2.6 sps – 7000 – 7032 kHz
DK2OM	7000,0	2016	15	02	B?		USB			pirates in Portuguese voice
DK2OM	7000,0	1937	19	02	ISR		N0N			carrier -7000.007 kHz - Israel
DK2OM	7001,5	ady	dly	02	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	1003	14	02	INS		USB LSB			Indonesian pirates
DK2OM	7010,0	1002	14	02	INS		USB LSB			Indonesian and Philippine pirates
DK2OM	7010,0	vt	vd	02	ALB	no ITU	FSK8	125	1750	ALE, “RS0” - Tirana
DK2OM	7011,5	2010	24	02	AFG		PSK4	62.5	1750	Clover 2000
DK2OM	7015,0	1001	14	02	INS		USB LSB			Indonesian pirates
DK2OM	7016,0	1122	14	02	RUS		PSK2A	120	2600	AT3004D – Far East Russia
DK2OM	7018,0	1933	21	02	RUS	REA4	F1B	100	800	mostly idling – Russian airforce Moscow – ident at full hour + 41 min. on F1A
DK2OM	7020,0	vt	vd	02	ALB		FSK8	125	1750	ALE, “CS004A” “RS004D” “CS004” - daily
DK2OM	7025,0	1407	04	02	INS		USB LSB			Indonesian pirates
DK2OM	7027,5	---	--	02	UKR	„V“	A1A			beacon “V” – Kyiv
DK2OM	7030,0	1408	04	02	INS		LSB USB			Indonesian pirates
DK2OM	7039,0	---	--	02	RUS	C	A1A			Cluster beacon C - Moscow RUS Navy - “RIW”
DK2OM	7039,1	---	--	02		A	A1A			beacon “A” - loop
DK2OM	7039,2	2226	04	02	RUS	F	A1A			Cluster beacon F - Vladivostok RUS Navy - “RJS”
DK2OM	7039,3	---	--	02	RUS	K	A1A			Cluster beacon K Petropavlovsk Kamchatskiy - RUS Navy - Pacific fleet - “RCC” - daily
DK2OM	7039,4	1435	09	02	RUS	M	A1A			Cluster beacon M – Magadan RUS Navy – „RTS“
DK2OM	7040,0	1408	04	02	INS		USB LSB			Indonesian pirates
DK2OM	7040,0	vt	dly	02	F	F6BAZ	FSK8	125	1750	ALE, “F6BAZ” – just for info
DK2OM	7040,0	ady	dly	02	I		A1A			IZ3DVW – uncoordinated and unwanted beacon
DK2OM	7040,5	vt	dly	02	HRV		FSK8	125	1750	ALE, “9A5EX” “9A0ALE” – just for info
DK2OM	7047,37	vt	vd	02	D		FSK8	125	1750	ALE, “DL0NOT” – just for info!



DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	7049,5	vt	vd	02	HRV G F	9A0ALE M1DFO F6BAZ	FSK8	125	1750	Amateur ALE, just for info! daily – various times
DK2OM	<b>7050,0</b>	<b>vt</b>	<b>dly</b>	<b>02</b>	<b>RUS UKR</b>		<b>LSB</b>			<b>music transmissions – private war ?</b>
DK2OM	7050,0	vt	dly	02	KGZ		FSK8	125	1750	ALE, “X” “810” “820615” “810698” – Kyrgyzstan MIL
DK2OM	7055,5	vt	vd	02	MEa	no ITU	FSK8	125	1750	ALE, “111” “132” “133” - Kaukasus
DK2OM	7068,0	1438	08	02	RUS		PSK2A	120	2600	AT3004D – Far East Russia
DK2OM	7070,0	vt	vd	02	GEO	no ITU	FSK8	125	1750	ALE, “MV” “244” “686” “334” “204” “571” – daily active
DK2OM	7085,0	1927	09	02	RUS		FMCW		13k	OTH radar Contayner - 50 sps – Gorodezh
DK2OM	7088,8	---	--	02	S	SL0FRO	A1A			7088.830 kHz - cw-trainee, Sweden - SL0FRO - just for info!
DK2OM	7089,8	---	--	02	TUR CYP		PSK8	2400	2400	Link11 - SLEW – aircraft – west of Cyprus
DK2OM	7091,0	1355	25	02	CHN		FSK8	125	1750	ALE, “N61 – A99”
DK2OM	7091,5	ady	dly	02	KAZ	„V“	A1A			7091.543 kHz - loop with spurious – ident “V” – Almaty - Kazakhstan
DK2OM	7095,0	0950	12	02	FEa		FMOP		32k	Codar like ocean surface radar 2.6 sps – 7095 – 7127 kHz
DK2OM	7099,5	vt	dly	02	HRV	9A0ZG	FSK8	125	1750	ALE, “9A0ZG” “9A5EX1P” “9A0OS” – daily - just for info!
DK2OM	7100,0	1429	09	02	FEa		FMOP		10k	Far East burst OTH radar – 50 sps - 1.9 and 5 sec duration
DK2OM	7101,8	2215	14	02	G		PSK8A	2400	2400	Stanag-4285 – Falkland Islands
DK2OM	7102,0	1436	09	02	TWN		FSK8	125	1750	ALE, “BV4AS” – just for info!
DK2OM	7102,0	vt	vd	02	HRV SUI D	9A0MIL	FSK8	125	1750	ALE, “9A3MIL” “9A2KS” “HB9MHB” “9A0ZG” “9A4OS” “DK0ESD” – just for info!
DK2OM	7104,0	2138	24	02	FEa		F1B	100	170	Codan selcall – 8580
DK2OM	7107,0	1959	18	02	FEa		FMOP		32k	Codar like ocean surface radar 2.6 sps – 7107 – 7139 kHz
DK2OM	7110,0	vt	dly	02	HRV	9A0ALE	FSK8	125	1750	ALE, “9A0ALE” – just for info
DK2OM	7110,0	1446	01	02	RUS		PSK2A	120	2600	AT3004D - Penza
DK2OM	7113,8	2014	24	02	FEa		F1B	100	170	Codan selcall - 8580
DK2OM	7114,0	1345	10	02	FEa		FMOP		32k	Codar like ocean surface radar 2.6 sps – 7114 – 7146 kHz
DK2OM	7117,0	---	--	02	RUS	REA4	F1B	100	1000	mostly idling – Russian airforce Moscow – ident on CW at 1640 utc on the mark-QRG
DK2OM	7119,0	1435	08	02	RUS		PSK2A	120	2600	AT3004D – Far East Russia
DK2OM	7119,0	2140	24	02	CHN		OFDM LSB	44.44	2400	PRC-39 (39 carriers) – West China
DK2OM	<b>7120,0</b>	<b>1500</b>	<b>vd</b>	<b>02</b>	<b>SOM</b>		<b>A3E</b>		<b>9k</b>	<b>Radio Hargaysa – Somalia – daily – even audible in Australia and Japan</b>
DK2OM	7125,0	2111	11	02	CHN		FSK8	125	1750	ALE, “111” “114”
DK2OM	7134,0	2118	11	02	RUS		F1B	50	200	Far East Russia
DK2OM	7137,0	vt	dly	02	TWN		FSK8 LSB	125	1750	ALE, “DEGDG” “DRYHD” “DCOYI” “DSQLK” “DEIQW” “DETWY” Taiwanese navy – daily
DK2OM	7140,8	1643	24	02	FEa		F1B	100	170	Codan selcall – 8888 - 1879
DK2OM	7143,8	1640	24	02	FEa		F1B	100	170	Codan selcall – 8888 - 5218
DK2OM	7148,0 USB	1628	24	02	CHN		PSK2B	2400	2400	groups of 4 bursts
DK2OM	7153,0	1108	25	02	CHN		OFDM LSB	44.44	2400	PRC-39 (39 carriers) - China
DK2OM	7155,0	1920	16	02	FEa		FMOP		32k	Codar like ocean surface radar 2.6 sps – 7155 – 7187 kHz
DK2OM	7162,0	1852	06	02	FEa		FMOP		32k	Codar like ocean surface radar



DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										2.6 sps – 7162 – 7194 kHz – daily, various times
DK2OM	7163,0	---	--	02	UKR		A3E			encrypted MSGs - SZRU in Rivne
DK2OM	7168,0	2014	15	02	RUS		FMCW		13k	OTH radar Contayner - 50 sps – Gorodezh
DK2OM	7170,0	1856	06	02	CHN		FSK8	125	1750	ALE, “103” “132”
DK2OM	7175,0	---	--	02	ERI ETH		A3E		9k	carrier on 7174.989 kHz Radio Eritrea disturbed by Radio Ethiopia with white noise emissions - daily
DK2OM	7176,0	0953	20	02	RUS		PSK2A	120	2600	AT3004D – Far East Russia
DK2OM	7178,0	1459	01	02	RUS		PSK2	120	2600	AT3004D – submode idle - Moscow
DK2OM	7183,0	vt	dly	02	SUI		FSK8	125	1750	ALE, “HB9MHB” – just for info!
DK2OM	7185,5	vt	dly	02	D HRV		FSK8	125	1750	ALE, “9A5EX” “DK0ESD” just for info - daily
DK2OM	7186,0	---	--	02	F		A3E		19k	Radio France International on 7205 kHz - splattering +/- 19 kHz – problem solved!
DK2OM	7189,0	2020	08	02	RUS		PSK2A	120	2600	AT3004D - Sevastopol
DK2OM	7193,0	1445	01	02	RUS	RDL	F1B	50	200	RUS navy Kaliningrad
DK2OM	7193,0	0930	14	02	RUS	RDL	F1B	50	200	RUS navy Kaliningrad – disturbed by a German HAM on the mark QRG with dots
DK2OM	7197,0	vt	dly	02	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	7200,0	1359	04	02	CHN TWN		A3E/BC		9k	Chinese jammer disturbing Taiwan
DK2OM	10100,0	1824	07	02	D		QRM			disturbed by a neighbouring LED lamp with S9
DK2OM	10100,8	ady	dly	02	D		F1B	50	450	Baudot - German Weatherservice – legal!
DK2OM	10110,0	vt	dly	02	SNG	no ITU	FSK8	125	1750	ALE, “CN6” “68” – Singapore Navy - Changi Naval Base
DK2OM	10113,0	vt	vd	02	TUN	no ITU	FSK8	125	1750	ALE, “TUD” “STAT5” “STAT154”
DK2OM	10114,0	vt	dly	02	ALG	no ITU	FSK8	125	1750	ALE, “BSF” “ZEN” “CM2OR2”
DK2OM	10114,8	0750	dly	02	RUS		F1B	100	1000	CIS14 – Moscow - daily
DK2OM	10115,0	vt	dly	02	MRC	no ITU	FSK8	125	1750	ALE, “100” “114” “203” “XXZ” – Western Sahara
DK2OM	10116,5	---	--	02	AFS		F7D	54.3	2120	MHF50 – 33 tones - South African navy
DK2OM	10120,0	vt	dly	02	ALG	no ITU	FSK8	125	1750	ALE, “CM6” “01012016”
DK2OM	10122,0	1110	07	02	RUS		PSK2A	120	2600	AT3004D - Moscow
DK2OM	10123,0	vt	dly	02	ALG	no ITU	FSK8	125	1750	ALE, “CM3” “COF” “BSF” “CM2” “ESA” – Algerian Airforce
DK2OM	10129,0	vt	dly	02	ALG	no ITU	FSK8	125	1750	ALE, “CM1” “CTF” “772”
DK2OM	10132,0	--	--	02	F		USB			French “amateurs” not respecting bandplans
DK2OM	10136,0	vt	dly	02	ALG	no ITU	FSK8	125	1750	ALE, “CM3” “BLD” “CNC” “TF2”
DK2OM	10144,0	ady	dly	02	D	DK0WCY	A1A			10144.000 kHz - DK0WCY – German aurora beacon – just for info!
DK2OM	10145,5	vt	dly	02	SUI	HB9MHB	FSK8	125	1750	ALE, “HBMHB” - just for info - daily
DK2OM	10145,5	vt	vd	02	TWN	BV4AS	FSK8	125	1750	ALE, “BV4AS” “VK4SAA”–

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
					AUS					just for info!
DK2OM	14000,0	vt	dly	02	FEa		USB			pirates from Java Sea - daily
DK2OM	14000,0	1110	02	02	D		QRM			disturbed by a neighbouring LED lamp with S9 – daily various times
DK2OM	14000,0	0912	08	02	RUS		USB			female Russian voice - Orenburg
DK2OM	14000,0	1228	09	02	F		FSK8	125	1750	Thales 3000 - ALE - Toulouse
DK2OM	14022,0	0837	27	02	RUS		F1B	75	200	Sevastopol
DK2OM	14026,0	0929	18	02	CHN		FMCW		160k	Chinese broadband radar – 10 sps – 14026 – 14186 kHz – 51 sec blocks
DK2OM	14052,0	0856	19	02	RUS		PSK2A	120	2600	AT3004D - Moscow
DK2OM	14100,0	vt	dly	02	ALG	no ITU	FSK8	125	1750	ALE, “6206” “6204” “6212” “6202” “6203” “6207” “6217” “MTL” “IJI” – Mauritanian border – daily, all day
DK2OM	14100,0	---	--	02	F		FMCW		20k	French OTH burst radar, 6 sps, similar Codar sounding, South France
DK2OM	14100,0	1110	02	02	D		QRM			disturbed by a neighbouring LED lamp with S9 – daily various times
DK2OM	14108,0	---	--	02	RUS		A1A			“BXCS de 9KHQ” - RUS MIL area of Moscow – many spurious emissions
DK2OM	14109,0	vt	vd	02	TWN	HAM	FSK8	125	1750	ALE, “BV4AS” – daily - just for info!
DK2OM	14109,0	vt	dly	02	INS	HAM	FSK8	120	1750	ALE, “YD00XH” – just for info!
DK2OM	14109,0	vt	dly	02	S HRV D		FSK8	125	1750	ALE, “SM3FXL” “9A4OS” “9A3BRV” “DK0ESD” - just for info!
DK2OM	14109,0	vt	vd	02	G		FSK8	125	1750	ALE, “M1DFO” – just for info
DK2OM	14115,0	1614	26	02	RUS		FMCW		13k	OTH burst radar Contayner - 10 sps – Gorodezh
DK2OM	14116,0	0849	27	02	RUS		F1B	75	250	Smolensk
DK2OM	14118,0	0947	16	02	RUS		PSK2	120	2600	AT3004D – submode idle - Moscow
DK2OM	14130,0	1401	02	02	RUS		FMCW		13k	OTH burst radar Contayner - 10 sps – Gorodezh
DK2OM	14148,5	0705	10	02	RUS		F1B	600	600	DPRK-FSK 600 – DPRK emba Moscow
DK2OM	14160,0	vt	dly	02	MRC		FSK8	125	1750	ALE, “9204” “9228” “9236”
DK2OM	14165,0	0933	08	02	RUS		FMCW		13k	OTH burst radar Contayner - 10 sps – Gorodezh
DK2OM	14174,0	1316	22	02	RUS		PSK2A	120	2600	AT3004D - Moscow
DK2OM	14192,0	vt	dly	02	RUS		F1B	50 75 50 100 100	500 500 200 500 200	RUS navy Kaliningrad - daily
DK2OM	14203,9	0950	16	02	RUS		OFDM	35.6	2750	OFDM 60 – Omsk
DK2OM	14203,9	0711	10	02	RUS		OFDM	35.6	2770	OFDM 60 - Omsk
DK2OM	14221,0	vt	vd	02	KGZ		F1B	50	200	CIS-50-50 - Bishkek – daily
DK2OM	14242,0	0953	15	02	RUS		PSK4A	120	2600	AT3104D - Moscow
DK2OM	14254,0	0925	18	02	CHN		FMCW		160k	Chinese broadband radar – 10 sps – 14254 – 14414 kHz
DK2OM	14260,0	vt	dly	02	SRB	YU1BI	FSK8	125	1750	ALE, “YU1BI” – just for info!
DK2OM	14261,0	0710	09	02	RUS		OFDM	35.6	2770	CIS-60 - Moscow
DK2OM	14270,0	0956	16	02	RUS		PSK2A	120	2600	AT3004D - Moscow
DK2OM	14271,5	1145	07	02	CHN		OFDM	44.6	2400	OFDM 39 – PSK4B - China
DK2OM	14272,0	---	--	02	RUS	RCV	A1A			RUS Navy Sevastopol
DK2OM	14280,0	---	--	02	UKR		A3E			female voice with encrypted msgs – figures – “SZRU” = Foreign Intelligence Service of Ukraine in Rivne – every

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										Wednesday at 1005 utc
DK2OM	14280,0	1056	07	02	RUS		FMCW		13k	OTH burst radar Contayner - 10 sps – Gorodezh
DK2OM	14280,0	1320	17	02	RUS		FMCW		13k	OTH radar Contayner - 50 sps – Gorodezh
DK2OM	14290,0	0841	17	02	RUS		FMCW		13k	OTH burst radar Contayner - 10 sps – Gorodezh
DK2OM	14294,0	0831	22	02	CHN		FMOP		10k	Chinese OTH radar (foghorn) – 66.66 sps – 3.8 sec bursts
DK2OM	14295,0	vt	dly	02	SRB	YU1BI	FSK8	125	1750	ALE, “YU1BI” – just for info!
DK2OM	<b>14295,0</b>	<b>ady</b>	<b>dly</b>	<b>02</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	1205	13	02	KGZ		PSK2A	1200	1200	vocoder T-230-A1 – rather old system - location: Bishkek
DK2OM	14305,0	0948	14	02	RUS		FMCW		13k	OTH burst radar Contayner - 10 sps – Gorodezh
DK2OM	14307,0	0946	15	02	CHN ?		FMOP		10k	OTH radar – 50 sps – 5 sec bursts
DK2OM	14308,0	1057	07	02	RUS		F1B	75	500	Moscow
DK2OM	14325,0	0940	12	02	CHN		FMOP		10k	OTH radar 50 sps – 10.3 sec bursts – jumping 14228 kHz (3.8 sec bursts)
DK2OM	14330,0	vt	dly	02	TWN		FSK8	125	1750	ALE, “BV4”
DK2OM	14340,0	---	--	02	RUS		PSK2A	120	2600	AT3004D – Vladivostok with spurious emissions +/- 35 kHz and +/- 70 kHz - daily
DK2OM	14346,0	vt	dly	02	POR		FSK8	125	1750	ALE, “CT2IXQ” just for info – various times, daily
DK2OM	<b>14347,0</b>	<b>---</b>	<b>--</b>	<b>02</b>	<b>UKR</b>		<b>A3E</b>			<b>female voice with encrypted msgs – figures – “SZRU” = Foreign Intelligence Service of Ukraine in Rivne</b>
DK2OM	14348,0	vt	dly	02	THA	HS0ZEA	A1A			HS0ZEA beacon – 14347.950 kHz - every 5 minutes – daily - just for info!
DK2OM	<b>14351,7</b>	<b>---</b>	<b>--</b>	<b>02</b>	<b>E</b>		<b>OFDM PSK4A</b>	<b>30</b>	<b>2700</b>	<b>OFDM 73 + intro tone – HFD+VL - experimental transmissions – Las Palmas – just for info!</b>
DK2OM	<b>18080,0</b>	<b>---</b>	<b>--</b>	<b>02</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	18100,0	vt	dly	02	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	02	POR	CT2GOY	FSK8	125	1750	ALE, “CT2GOY” – just for info!
DK2OM	18107,0	vd	vt	02	RUS	RDL	F1B	50	200	CIS-50-200 - Moscow – idle and traffic – daily - Russian navy – shared band!
DK2OM	18117,5	vt	vd	02	POR	CT2IXQ	FSK8	125	1750	ALE, “CT2IXQ” – just for info
DK2OM	18140,0	vt	dly	02	SRB	YU1BI	FSK8	125	2600	ALE, “YU1BI” – just for info!
DK2OM	18150,0	---	--	02	RUS		F1B	100	1000	harmonic from 9075 (100 Bd, 500 Hz) - Kaliningrad
DK2OM	<b>21000,0</b>	<b>---</b>	<b>--</b>	<b>02</b>	<b>B</b>		<b>USB</b>			<b>Brazilian pirates – Rio de Janeiro with North Brazil – very often</b>
DK2OM	<b>21000,0</b>	<b>---</b>	<b>--</b>	<b>02</b>	<b>SDN</b>		<b>USB</b>			<b>MFA Sudan – Khartoum with emba Yemen – voice traffic</b>
DK2OM	21000,0	---	--	02	F		FMCW			French OTH burst radar – every 15 minutes – South France
DK2OM	<b>21000,0</b>	<b>0821</b>	<b>22</b>	<b>02</b>	<b>D</b>		<b>QRM</b>			<b>disturbed by a neighbouring LED lamp with S9</b>
DK2OM	<b>21002,2</b>	<b>---</b>	<b>--</b>	<b>02</b>	<b>SDN</b>	<b>!0000 !9999</b>	<b>F1B</b>	<b>100</b>	<b>170</b>	<b>21002.15 kHz - Pactor 1 encrypted – MFA Sudan –</b>

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
						<b>!8888</b>				<b>Khartoum with emba Yemen</b>
DK2OM	21096,0	vt	dly	02	INS	YD00XH	FSK8	125	1750	ALE, "YD00XH3" – daily, various times - just for info!
DK2OM	21096,0	vt	vd	02	G		FSK8	125	1750	ALE, "M1DFO" – just for info!
DK2OM	21145,0	vt	dly	02	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	02	I	IZ3DVW	A1A			IZ3DVW beacon – 21145,790 kHz – daily, all day - not coordinated with IARU
DK2OM	21400,0	0757	22	02	RUS		F1B	50	2000	harmonic from 5350 kHz – area of Moscow
DK2OM	21438,0	0943	16	02	RUS	RCV	A1A			RIP90, RCV, RGX94 - RUS Navy Sevastopol - daily
DK2OM	21446,0	ady	dly	02	THA	HS0ZEA	A1A			HS0ZEA beacon – every 5 minutes - just for info!
DK2OM	25000,0	ady	dly	02	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	---	--	02	B		A3E			<b>Brazilian CBers – 28000 – 28325 – daily, all day - no change</b>
DK2OM	28000,0	---	--	02	CIS		F3E			<b>28000 – 29700 numerous CIS taxi nets – no change</b>
DK2OM	28000,0	2219	28	02	D		QRM			<b>disturbed by a neighbouring LED lamp with S9</b>
DK2OM	28010,1	---	--	02	POR		F1B	51	300	F1B bursts –west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28025,0	---	--	02	POR		F1B	51	300	F1B bursts – 28025.050 kHz - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28030,0	---	--	02	POR		F1B	51	340	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28045,0	---	--	02	POR		F1B	51	280	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28050,0	---	--	02	POR		F1B	51	300	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28051,5	---	--	02	POR		F1B	51	300	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28060,0	---	--	02	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28065,1	---	--	02	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28065,8	---	--	02	GAB		A3E		980	carrier and dots in USB and LSB, bursts every 60 sec – carrier – Gabon – daily and all day
DK2OM	28075,0	---	--	02	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28085,0	---	--	02	POR		F1B	51	300	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28090,1	---	--	02	POR		F1B	51	320	F1B bursts - 28100.780 kHz -



DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28100,2	---	--	02	POR		F1B	51	300	F1B bursts - 28100.780 kHz - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28102,1	---	--	02	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28125,0	---	--	02	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28146,0	vt	vd	02	ARG B		FSK8	125	1750	ALE, “LU8EX” “PY2TI” “DL1” – just for info!
DK2OM	28200,0	---	--	02	POR		F1B	51	330	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28224,4	---	--	02	GAB		A3E			carrier and dots +/- 770 Hz - bursts every 60 sec – Gabon – daily and all day
DK2OM	28249,6	---	--	02	GAB		A3E		1380	carrier and dots +/- 745 Hz - bursts every 60 sec – Gabon – daily and all day
DK2OM	28250,5	---	--	02	GAB		A3E		1000	carrier and dots +/- 500 Hz - bursts every 60 sec – Gabon – daily and all day
DK2OM	28275,1	---	--	02	AF		F1B	51	320	F1B bursts -Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28312,5	vt	vd	02	POR	CT2IXQ	FSK8	125	1750	ALE. “CT2IXQ” – just for info
DK2OM	28315,0	---	--	02	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28345,1	---	--	02	GAB		A3E		1060	carrier and dots +/- 530 Hz - bursts every 60 sec – Gabon – daily and all day
DK2OM	<b>28435,0</b>	----	--	<b>02</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	----	--	02	GAB		A3E		1060	carrier and dots +/- 530 Hz - bursts every 60 sec – Gabon – daily and all day
DK2OM	28459,9	---	--	02	GAB		A3E		1060	carrier and dots +/- 530 Hz - bursts every 60 sec – Gabon – daily and all day
DK2OM	<b>28499,8</b>	---	--	<b>02</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	28500,0	---	--	02	IRN		FMOP		36k	radar Iran – burst mode – 225 and 334 sps – also 25.12.2016 at 0910 utc
DK2OM	28701,1	---	--	02	GAB		A3E		1056	carrier and dots +/- 528 Hz - bursts every 60 sec – Gabon – daily and all day
DK2OM	28745,3	---	--	02	GAB		A3E		1060	carrier and dots +/- 530 Hz - bursts every 60 sec – Gabon – daily and all day
DK2OM	28751,2	---	--	02	GAB		A3E		1080	carrier and dots +/- 540 Hz - bursts every 60 sec – Gabon – daily and all day
DK2OM	28751,3	---	--	02	GBN		A3E		1040	carrier and dots +/- 520 Hz - bursts every 60 sec – Gabon – daily and all day
DK2OM	28801,5	---	--	02	GBN		A3E		1090	carrier and dots +/- 545 Hz - bursts every 60 sec – Gabon – daily and all day
DK2OM	28845,5	---	--	02	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
DK2OM	28901,1	---	--	02	GAB		A3E		1056	carrier and dots +/- 528 Hz - bursts every 60 sec – Gabon – daily and all day
DK2OM	29114,0	---	--	02	RUS		F1B	100	2000	harmonic from 14557.0 kHz - Moscow
DK2OM	29249,9	---	--	02	E		F1B	81.9	140	Datawell-buoy “Waverider” – 29249.880 kHz – Spain Fuerteventura - daily, all day
DK2OM	29375,0	---	--	02	I		F1B	81.9	140	Datawell-buoy “Waverider” – 29374.898 kHz – Gallipoli, South Italy - daily, all day
DK2OM	29387,5	---	--	02	IND		F1B	81.9	140	Datawell-buoy “Waverider” – 29387.460 kHz – Indian NW coast, close to Pakistan - daily, all day
DK2OM	29400,0	---	--	02	USA		F1B	81.9	140	Datawell-buoy “Waverider” – 29400.070 kHz - USA north-east coast – NY daily, all day
DK2OM	29450,0	---	--	02	MRC		F1B	81.9	140	Datawell-buoy “Waverider” – 29449.863 kHz - area of El Aaiun – Morocco - daily, all day
DK2OM	29500,0	---	--	02	G		F1B	81.9	140	Datawell-buoy “Waverider” – 29499.974 kHz- area of Gibraltar – daily, all day
DK2OM	29525,0	---	--	02	MRC		F1B	81.9	140	Datawell-buoy “Waverider” – 29524.990 kHz - Agadir - Morocco – daily, all day
DK2OM	29625,0	---	--	02	USA		F1B	81.9	140	Datawell-buoy “Waverider” – 29625.024 kHz - USA north-east coast – daily, all day
DK2OM	29685,0	---	--	02	I		VFT		2300	Italian MIL - Brescia
DK2OM	29699,5	---	--	02	I		VFT		1600	Italian MIL - Brescia

### IRTS – Ireland – EI3GYB (Michael)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	DETAILS
IRTS	1896,5	1520	16	02	D		PSK8	German navy, just coming up to stay for the rest of the afternoon, night and early morning. Fades out in daylight.
IRTS	3536	1525	16	02	E or MM		USB	2 male Spanish fishermen. One signal strong, the other nearly inaudible.
IRTS	3550	0730	10	02	F		AM	French HAMS violating the band plan. This thing already goes on for a long time on a daily basis.
IRTS	3585	2125	21	02	POR or MM		USB	2 male Portuguese fishermen. Strong signals.
IRTS	3660	1800	12	02	RUS/UKR		LSB	Loud Russian music, shouting of political slogans.
IRTS	3664	1105	04	02	E or MM		USB	3 male Spanish fishermen having a discussion about females. Huge signals. Could be in Irish waters, judging by the signal strength at this time of the day.
IRTS	5358	1815 till 0220z the next day	13	02				Radar, very loud and persistent, from 5358 to 5363 KHz. Makes any QSO impossible.
IRTS	5360	1945 to 2001	08	02	MRC or MM		USB	2 male Maghreb fishermen having a chat. Very popular frequency among Moroccan fishermen.
IRTS	5362	0255	02	02			USB	Several male Arab voices chatting.
IRTS	5389	1736 till 0430z the next	05	02				Strong radar from 5389 to 5425 KHz. Audible all evening, all night until early morning. Most likely coming from Far East.

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	DETAILS
		day						
IRTS	5398,5	1020	26	02	D		USB	German HAM working a UK SOTA activity in violation to national and international regulations. Happens quite frequently. Another German-always the same HAM- comes up a good few times during the week onto this frequency asking any UK station operating on the frequency to follow him to 5360 KHz.
IRTS	5400	1425	17	02	POR or MM		USB	Portuguese male fishermen. Very strong. Just starting a chat. Another popular frequency among the fishing pirates.
IRTS	5403,5	0030 to 0130	14	02	D/E/I /BEL		USB	A number of HAMs from Germany, Spain, Italy and Belgium uses this frequency in violation to their own national and international regulations and make contact with a DX team in Guantanamo Bay and/ or try to tell the operator to listen out for them on a specified frequency within the new international allocation.
IRTS	5405	1929	20	02	POR or MM		USB	Portuguese fishermen, 2 male voices. Monster signals in the grey line.
IRTS	7000	1514	16	02	INS or MM		LSB	INS fishermen. Big pandemonium. Very strong signals. Group of at least half a dozen men.
IRTS	7050	1242	20	02	RUS/ UKR		LSB	Ukrainian-Russian radio war. Lots of shouting by umpteen male voices. Propaganda MX. Many days with circuses like this.
IRTS	7055	1530	16	02	RUS/ UKR		LSB	Russian-Ukrainian radio war. MX, loud shouting of political slogans. Old speeches from Soviet Union being replayed. Half a dozen male voices. Many days of the month.
IRTS	7099	0225 to 0345	02	02				Strong digital signals from 7099 to 7123 KHz. Ends around 0345z.
IRTS	7107	2118	28	02	INS or MM		USB	2 male Indonesian fishermen chatting busily.
IRTS	7111	2111	21	02	B		USB	A woman with Brazilian Portuguese accent with some kids in the background talks to a male person.
IRTS	7120	1845	17	02	SOM		AM	Radio Hargaysa. Every day. Strong with MX and talk.
IRTS	7126	0208 to 0215	02	02			USB	Several male voices. Sounds like Kurdish.
IRTS	7127	2116	21	02	B		USB	Group of several male voices, all Brazilian accent having a great time with plenty of talk and laughter. No call sign given and the talk does not sound any bit like coming from HAMs.
IRTS	7163	1625	18	02				Radar from 7163 to 7202 KHz. Massive signals. Spectrum not usable by any Ham. Gone by 1830z.
IRTS	7180	0352	03	02			USB	2 male voices, ME Arabic, having a conversation.
IRTS	7205	2100	21	02	F		AM	RFI splattering down to 7196.5 KHz
IRTS	10111	1815	21	02				Radar, very strong, from 10111 to 10136 KHz.
IRTS	10119,5	2143	21	02			USB	2 male Arab voices, weakfish.
IRTS	10123	1602	26	02				Radar from 10123 to 10143 KHz.
IRTS	10130	1810	12	02	KOR /MM		USB	2 Korean male fishermen in a friendly chat. Heard these voices very often in the past.
IRTS	10130	1152	13	02	MRC or MM		USB	2 Moroccan male fishermen chatting. Another popular frequency among the world wide fishing community.
IRTS	10133	1110	04	02	MRC or MM		USB	2 male Arab voices with Maghreb accent.
IRTS	10133	1223	25	02	MRC or MM		USB	2 male Maghreb male fishermen
IRTS	14191	0920	15	02	RUS		F1B	Russian navy from Kaliningrad.

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	DETAILS	
									Daily during the hours of sunlight.
IRTS	14257	1400	17	02					Huge radar signals from 14257 to 14298 KHz. Spectrum cannot be used.
IRTS	14295	1115	04	02	TJK		AM		Radio Tajikistan 3rd harmonic
IRTS	18090	1220	02	02					Radar from 18090 to 18111 KHz, huge signal. Spectrum closed for all others.
IRTS	21076	1231	22	02			USB		2 male Russian voices exchanging a lot of numbers.

### KARS – Kuwait – 9K2RR (Faisal)

### MRASZ – Hungary - HA7PL (Laci)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	DETAILS
MRASZ	3511,00	1704	16	2			A1A		5 letters "ÄMIDB NFZGL RLChLT"
MRASZ	3521,00	1718	28	2			USB		unidentified language
MRASZ	3542,00	1624	24	2			PSK2		AT3004D
MRASZ	3548,00	1550	5	2			USB		unidentified language
MRASZ	3548,00	1619	24	2			F1B	200	
MRASZ	3548,00	1711	28	2			F1B	200	
MRASZ	3550,00	1454	25	2			USB		unidentified language
MRASZ	3559,00	1711	28	2			PSK2		AT3004D
MRASZ	3570,00	1711	28	2			PSK2		AT3004D
MRASZ	3572,50	1552	10	2			A1A		5 letters, cyrillic ABC
MRASZ	3574,50	1710	28	2			PSK2		AT3004D
MRASZ	3582,00	1710	28	2			PSK2		AT3004D
MRASZ	3588,00	1943	8	2			LSB		unidentified language
MRASZ	3658,00	1955	8	2	UZB		A1A		beacon "V" Tashkent, hrd every day
MRASZ	3672,00	1658	24	2			PSK2		AT3004D
MRASZ	3724,00	1533	5	2			F1B	200	
MRASZ	6999,00	1549	25	2			LSB		"prova prova" italian language
MRASZ	7050,00	1529	5	2			LSB		russian language, chaos
MRASZ	7050,00	1341	10	2			LSB		russian and ukrainian language, chaos, cursing
MRASZ	7050,00	1550	25	2			LSB		russian chaos, music
MRASZ	7054,00	1332	10	2			LSB		music, later speech, no HAM
MRASZ	7054,00	1350	10	2			LSB		ukrainian propaganda
MRASZ	7055,00	1308	10	2			LSB		music, 59+40 dB
MRASZ	7055,00	1551	25	2			LSB		russian chaos, cursing
MRASZ	7120,00	1527	5	2	SOM		A3E		R. Hargaysa, hrd every day
MRASZ	7151,00	1326	10	2			PSK2		AT3004D
MRASZ	7175,00	1639	10	2			N0N		
MRASZ	7189,00	0917	12	2			PSK2		AT3004D
MRASZ	14295,00	1445	25	2	TJK		A3E		Radio Tajik, 3rd. harmonic, hrd: 21, 25, 28
MRASZ	24935,00	0916	12	2			A3E		ui. BC
MRASZ	24950,00	0915	12	2			A3E		ui. BC

### OEVSV – Austria – OE3GSA (Gerd)

### PZK – Poland – SP9BRP (Jan)



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

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
F5MIU	7050	1624	1	02			fmcw		20kHz	OTH radar S9+10 pulsed 20ms
F5JBR	7062.0	0647	10	02	RUS	Russian Military	CIS-12/AT300 4D/USB	120 per channel	2700	Encrypted messages
F5JBR	7062.0	0626	11	02	RUS	Russian Military	CIS-12/AT300 4D/USB	120 per channel	2700	Encrypted messages
F5MIU	7085	1752	9	02			fmcw		20kHz	OTH radar S9+10 pulsed 20ms
F5JBR	7160.0	0631	22	02	RUS	RMW32	CW			RMW32 Working outstations RFN73 ; RFN76 ; RFN67 ; RFN32 ; RGR90 ; RGR91 ; RFH46 ; RGR92 ; RGR93 ; RGR94 ; RGR95 RGR96 ; RGR97 ; RDQ81 ; RGR98 (comms checks : use ZSA code and ZTCs : send 1 message for each outstation and fact repeat the message by the outstation and ends with "SK") in Simplex
F5YD	7185	1625	18	02			fmcw		15kHz	OTH radar S5
F5JBR	7196.0	1003	17	02	RUS	Russian Military	CIS-12/AT300 4D/USB	120 per channel	2700	Encrypted messages
F5MIU	10120	1655	28	02			fmcw		20kHz	OTH radar S9 pulsed 20ms
F5MIU	10125	1800	20	02			fmcw		20kHz	OTH radar S9+10 pulsed 20ms
F5MIU	10135	1637	21	02			fmcw		25kHz	OTH radar S9+20 pulsed 20ms
F5MIU	10140	1803	17	02			fmcw		20kHz	OTH radar S9+ pulsed 20ms
F5MIU	10145	17105	22	02			fmcw		25kHz	OTH radar S9+20 pulsed 20ms
F5MIU	14000	0846	3	02			fmcw		20kHz	OTH radar S9+10 pulsed 20ms
F5MIU	14015	0915	22	02			fmcw		10kHz	OTH radar S9+ pulsed 200ms
F5MIU	14050	0853	17	02			fmcw		10kHz	OTH radar S5
F5MIU	14100	0851	17	02			fmcw		10kHz	OTH radar S5
F5MIU	14125	0912	28	02			fmcw		20kHz	OTH radar S9+20 pulsed 20ms
F5MIU	18075	0850	11	02			fmcw		20kHz	OTH radar S7 pulsed 20ms
F5MIU	18080	0904	28	02			fmcw		20kHz	OTH radar S4 pulsed 20ms
F5MIU	21050	0848	17	02			fmcw		20kHz	OTH radar S8 pulsed 20ms
F5MIU	21190	0842	18	02			fmcw		20kHz	OTH radar S8 pulsed 20ms
F5MIU	21330	0842	18	02			fmcw		20kHz	OTH radar S8 pulsed 20ms

## REP – Portugal – CT4AN (Jose Francisco)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REP	3500	18.45	08	02			J3E-U			Unid lang. fishery
REP	3560	11.00	10	02	E		J3E-U			Spanish fishery
REP	3600	22.20	14	02	E		J3E-U			Fishery
REP	3615	09.55	10	02	F		J3E-U			French fishery
REP	3673	09.49	10	02	HOL		J3E-U			English and Dutch WX reports for North Sea
REP	7025	15.02	10	02			J3E-L			Intruders
REP	7035	18.00	02	02			FMCW	50	17k	OTH Radar
REP	7120	17.49	08	02	SOM		8k00 A3EGN			Radio Hargaysa
REP	7120	Dly	Dly	02	SOM		A3E			Radio Hargaysa
REP	7185	18.00	20	02	RUS		FMCW	50	200	OTH radar
REP	7193	Dly	Dly	02	RUS		F1B	50	200	CIS 36-50
REP	10110	11.01	06	02	MRC		J3E-U			Fishermen
REP	10125	16.37	08	02			J3E-U			Arabic fishery, N. Africa
REP	10125	10.40	09	02			J3E-U			Arabic fishery, N. Africa
REP	10135	19.44	12	02			FMCW			OTH radar
REP	10140	10.54	01	02			J3E-U			Arabic language fishery, N. Africa
REP	14005	11.00	09	02			F1B	300	425	RY ...
REP	14015	08.51	11	02			J3E-U			Intruders
REP	14026	08.31	03	02	RUS		PSK2			AT3004D mode
REP	14115	14.12	13	02			FMCW	50	17k	OTH radar
REP	14165	14.23	28	02			FMCW	10	10k	OTH radar, burst mode
REP	14180	14.15	13	02	RUS		F1B	50	200	CIS 36 modem, MIL
REP	14275	16.04	12	02			FMCW			OTH radar, burst mode
REP	14280	13.12	18	02	RUS		FMCW	50	17k	OTH radar
REP	14307	11.40	08	02	RUS		F1B	75	500	CIS 50 modem
REP	28102	Dly	Dly	02	CPV		F1B	51	300	Enagal buoy, Cape Verde coast
REP	28115	13.19	24	02	RUS		F3E			Taxi YL dispatcher
REP	28120	10.40	24	02	E		F1B	50	200	Enagal buoy
REP	28125	21.55	21	02	B		J3E-U			Brazilian truckers, daily
REP	29135	10.00	02	02	RUS		F3E			Taxi dispatcher
REP	29185	11.12	16	02	RUS		F3E			Taxi dispatcher
REP	29250	12.00	16	02			F1B	82	120	Datawell buoy

## RSGB - Great Britain – M0VRR (Vaughan)

## SRAL – Finland – OH2BLU (Pekka)

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
SRAL	7000,0	1100-1730	19.28.	2		UiCarr	N0N			
SRAL	7008,0	0930-1300	23.28.	2		UiPTR	F1B		250	
SRAL	7014,0	1100-1415/	18.21.	2		UiMUX	PSK2	120	2600	
SRAL	7016,0	1105-1255	28.	2		UiPTR	F1B		500	
SRAL	7018,0	1150-1930	21.	2	RUS	UiPTR	F1B		800	
SRAL	7022,0	1105-1115	16.	2	RUS	UiMUX	PSK2	120	2600	At 1110 usb 7020 Russ vox
SRAL	7030,0	1010-1320/	22.28.	2		UiPTR	F1A/B		250	QRJ?
SRAL	7032,0	1440-1450/	20.	2		UiMUX	PSK2	120	2600	
SRAL	7089,0	0650-1530	16.	2		UiMUX	PSK2	120	2600	
SRAL	7110,0	0615-1940	1.2.	2	RUS	UiMUX	PSK2	120	2600	
SRAL	7111,0	0640-0651/	27.	2		UiPTR	F1BA		250	Z-codes
SRAL	7120,0	0330-	dly	2	SOM	R.Hargeis	A3E			

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
		0530				a				
SRAL	7120,0	/1500-1900/	dly	2	SOM	R.Hargeis a	A3E			
SRAL	7122,0	0655-0910	27.	2		UiPTR	F1B		250	
SRAL	7142,0	0925-1150	10. 28.	2	RUS	UiPTR	F1B		250	
SRAL	7160,0	0750-0845	21. 22.	2	RUS	RMW32	A1A			
SRAL	7162,0	0750-0845/	18.	2		UiPTR	F1B		250	
SRAL	7164,0	0650-0945	8.	2		UiMUX	PSK2	120	2600	
SRAL	7167,0	0920	23.	2		UiPTR	F1A/ NON		250	
SRAL	7168,0	0930-1155/	1.	2		UiPTR	F1B		250	
SRAL	7178,0	1420-1510	1.	2		UiMUX	PSK2	120	2600	
SRAL	7179,5	1100-1200	24.	2		UiMUX	PSK2	120	2600	
SRAL	7189,0	0615-1810	8. 9. 12.	2	RUS	UiMUX	PSK2	120	2600	
SRAL	7192,0	1130-1320/	22.	2		UiPTR	F1B		250	
SRAL	7193,0	0745-1455/	*	2	RUS	UiPTR	F1B		200	Days: 4. – 10. 13. 14. 19.
SRAL	7198,0	1050-1417/	17. 27.	2		UiMUX	PSK2	120	2600	
SRAL	7199,0	0915-1000/	19.	2		UiPTR	F1B		250	
SRAL	7200,0	/1000-1300/	1. – 14.	2	CHN	CNR1	A3E			Used as jammer on TWN, with 2 transmitters +0 & -7 Hz.
SRAL	7 MHz	1500-0630		2	RUS	29B6	FMCW			50Hz / 15 kHz (WebSDR 9d)
SRAL	7 MHz	0515-0650	8. 16.	2	RUS	UiOTHR	FMCW			10Hz / 15 kHz, 30 sec, with 16 min cycle.
SRAL	10 MHz	1500-0500		2	RUS	29B6	FMCW			50Hz / 15 kHz (WebSDR 25d)
SRAL	14174,0	1035	22.	2		UiMUX	PSK2	120	2600	
SRAL	14192,0	1200	23.	2	RUS	UiPTR	F1B		200	
SRAL	14270,0	1015	16.	2		UiMUX	PSK2	120	2600	
SRAL	14295,0	0500-1430	dly	2	TJK	R Tojikiston	A3E			3f 4765,00 kHz, Yangiyul TX
SRAL	14308,0	0640-1305/	8. 9. 16.	2	RUS	UiPTR	F1B		500	
SRAL	14 MHz	0600-1430	22. 28.	2	RUS	29B6	FMCW			50Hz / 15 kHz, (WebSDR 12d)
SRAL	14 MHz	0530-1730	dly	2	RUS	UiOTHR	FMCW			10Hz / 15 kHz, 30 sec, with 16 min cycle.
SRAL	18 MHz	0600-1515	*	2	CYP / TUR	UiOTHR	FMCW			25/50Hz / 20 kHz, days: 11. 16. 17. 20. 22. 26. (WebSDR 18d)
SRAL	21 MHz	0600-1515	*	2	CYP / TUR	UiOTHR	FMCW			25/50Hz / 20 kHz, days: 10. 13. 17. 18. 23. 26. (WebSDR 22d)
SRAL	21145,0	1035-1049/	27.	2	CHN	UiOTHR	FMCW			12,5Hz / 40 kHz
SRAL	21438,0	0930-1100	*	2	RUS	RCV	A1A			Days: 15. 16. 22. 27.
SRAL	24 MHz	1220		2		UiOTHR	FMCW			(WebSDR 1 day)
SRAL	28960,0			2	IRN	UiOTHR	FMCW			150 & 313 Hz / 60 kHz
SRAL	28 MHz	1100		2		UiOTHR	FMCW			25/50Hz / 20 kHz (WebSDR 1 day)
SRAL	28 MHz			2	RUS	Taxi disp.	F3E			no reports

## USKA – Switzerland – HB9CET (Peter)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	3509.5	2312	05	02			F1B	75	200	
USKA	3524.0	1633	08	02			F1B	75	200	
USKA	3527.0	2354	20	02			F1B	50	200	
USKA	3548.0	2225	07	02			F1B	50	200	almost daily
USKA	3549.0 VFO USB	2245	09	02			PSK8	2400	~2k7	MIL188-110A (Hybrid), often preamble 4 tones, 450Hz spacing
USKA	3553.8	1826	07	02			G1D	2400	~2k4	Stanag 4285; PSK8 almost daily
USKA	3734.0	2239	09	02			J7D	12x120	2k7	BPSK; CIS12
USKA	3575.8 VFO USB	2158	23	02			OFDM60 PSK-4	30	~2k7	Channel spacing 44.5Hz
USKA	3631.0 VFO USB	0059	21	02			PSK8	2400	~2k7	MIL188-110A (Hybrid), often preamble 4 tone PSK4
USKA	3734.0	2243	09	02			PSK8	2400	~2k7	MIL188-110A (Hybrid), often preamble 4 tone PSK4 75Bd
USKA	3748.0	1816	07	02			F1B	75	250	
USKA	3748.0	2234	07	02			F1B	50	250	
USKA	3792.0	2221	17	02			F1B	50	200	
USKA	7000.000	1045	28	02			A0			Long lasting carrier
USKA	7006.0 VFO USB	0823	13	02			PSK8	2400	~2k4	MIL 188-141B (BW3)
USKA	7006.0 VFO USB	0828	13	02			PSK8	2400	~2k4	MIL 188-110B
USKA	7008.0	1036	28	02			F1B	75	250	
USKA	7010.0	1907	09	02		920004	MFSK8	125	1750	MIL 188-141A
USKA	7010.0	1915	09	02		810405	MFSK8	125	1750	MIL 188-141A
USKA	7010.0	1942		02		810416	MFSK8	125	1750	MIL 188-141A
USKA	7016.0	1009	11	02			J7D	12x120	2k7	BPSK; CIS12 system
USKA	7020.0	2321	15	02			J3E-L		2k3	Unident language (Asian)
USKA	7039.4	2219	09	02	RUS	M	A1A			Beacon M Magadan
USKA	7055.0	1608	08	02			J3E-L		~3k	Patriotic music and slogans overmodulated (over 15khz)
USKA	7064.0	2132	09	02			J7D	12x120	2k7	BPSK; CIS12 system
USKA	7065.0	1534	16	02			Noise		≥10k	Jammer (often qsy)
USKA	7070.0	1847	16	02		244	MFSK8	125	1750	MIL 188-141A; LQA
USKA	7070.0	2047	16	02		288	MFSK8	125	1750	MIL 188-141A; LQA
USKA	7070.0	2137	16	02		811101	MFSK8	125	1750	MIL 188-141A
USKA	7070.0	2139	16	02		820211	MFSK8	125	1750	MIL 188-141A
USKA	7086.5	2140	09	02			FMxx	50 sps	~13k	OTHR; occup. BW appx 30k Contayner 29B6
USKA	7089.0	1527	16	02			J7D	12x120	2k7	BPSK; CIS12 system
USKA	7119.9	1605	06	02	SOM		A3E		10k	Radio Hargaysa daily
USKA	7134.0	2210	09	02			F1B	50	200	
USKA	7151.0	1605	08	02			J7D	12x120	2k7	BPSK; CIS12 system
USKA	7168.0	2301	15	02			FMxx	50 sps	~13k	OTHR; occup. BW appx 30k Contayner 29B6
USKA	7186.0	2230	27	02			FMxx	42 sps	~12k	OTHR: Bursts, BD 6s BRI appx 42s
USKA	7189.0	1558	08	02			J7D	12x120	2k7	BPSK; CIS12 system often
USKA	7193.0	1030	06	02			F1B	36+50	200	CIS 36-50 almost daily
USKA	7097.0	1557 Vt	19 Vd	02	TUR	334018 Various	MFSK8	125	1750	MIL 188-141A daily
USKA	7198.0	1017	17	02			J7D	12x120	2k7	BPSK; CIS12 system
USKA	7200.0	1114	09	02			A3E		≥10k	BC, lower sideband in 40m band
USKA	14022.0	0912	27	02			F1B	100	200	
USKA	14116.0	0905	27	02			F1B	75	250	
USKA	14192.0	1128	09	02			F1B	50	200	almost daily
USKA	14204.0	0946	16	02			OFDM60	35.55	~2k7	PSK-8B modulated, tone spacing 44.44Hz; pilottone at 3k3
USKA	14242.0	0915	15	02			J7D	12x120	2k7	BPSK; CIS12 system
USKA	14246.0	0853	15	02			J7D	12x120	2k7	BPSK; CIS12 system
USKA	14295.1	0912	17	02	TDJ		A3E		~9k	3rd from 4765 – Radio Tajikistan



SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	14308.0	1104	09	02			F1B	75	500	often
USKA	14312.0	0847	17	02			FMCW	66.66 sps	10k	OTHR; BD appx 4.s, BRI appx 44s
USKA	18100.0	1034	23	02	RG2	RG2	MFSK8	125	1750	MIL 188-141A
USKA	18100.0	1106	23	02	C3	C3	MFSK8	125	1750	MIL 188-141A
USKA	21030.0	0907	17	02			FMCW	50 sps	20k	OTHR
USKA	21145.0	1107	24	02		C3	MFSK8	125	1750	MIL 188-141A; to ER3; LQA
USKA	21145.0	1141	24	02		E401	MFSK8	125	1750	MIL 188-141A; to C3
USKA	21145.0	1150	24	02		S301	MFSK8	125	1750	MIL 188-141A; to C3
USKA	21145.0	1209	24	02		GR2	MFSK8	125	1750	MIL 188-141A; to C3
USKA	21145.0	1216	24	02		K3	MFSK8	125	1750	MIL 188-141A
USKA	21310.0	1002	27	02			FMxx		40k	OTHR
USKA	21438.0	0946	27	02	RUS	RCV	A1A			letters and figures almost daily

### Veron – Netherlands – PA2GRU (Dick)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SHIFT	DETAILS
VERON	3548,0	19.25	10	2	CIS	UiPTR	F1B		Revs/Ptr
VERON	3548,0	19.32	10	2	RUS	RDL	F1A		RDL 5F
VERON	3557,0	16.54	10	2		UiPTR	F1B		Ptr
VERON	3600,0	13.55	28	2		UiPTR	F1B		Ptr
VERON	3606,0	19.36	10	2	CIS	UiPTR	F1B		Revs/Ptr
VERON	3700,0	14.48	16	2		UiPTR	F1B		Revs
VERON	3724,0	16.40	20	2		UiPTR	F1B		Ptr
VERON	7008,0	11.12	28	2		UiPTR	F1B		Ptr
VERON	7012,0	16.49	14	2	RUS	UiPtr	F1B	250	idle
VERON	7012,0	16.55	14	2		UiPTR	F1B		Ptr
VERON	14137,0	12.10	16	2		OTHR	FMCW		radar
VERON	14280,0	10.16	8	2	UKR	SZRU	A3E		female voice encrypted msgs loc Rivne
VERON	14308,0	09.00	1	2		UiPTR	F1B		Ptr (also 9/2 13.17 UTC)
VERON	21438,0	09.18	28	2	RUS	RCV	A1A		RIP90 de RCV QTC 448 Nawip 033 431

# The monitoring team of IARU Region 1

credits:

**Wavecom Elektronik – Buelach – Switzerland**

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

**Many thanks for your interest!**

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