



# Monitoring System

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The monthly newsletter for Region 1

## May 2014

### The 27 members of the IARUMS Region 1 Monitoring Team:



### Acknowledgements

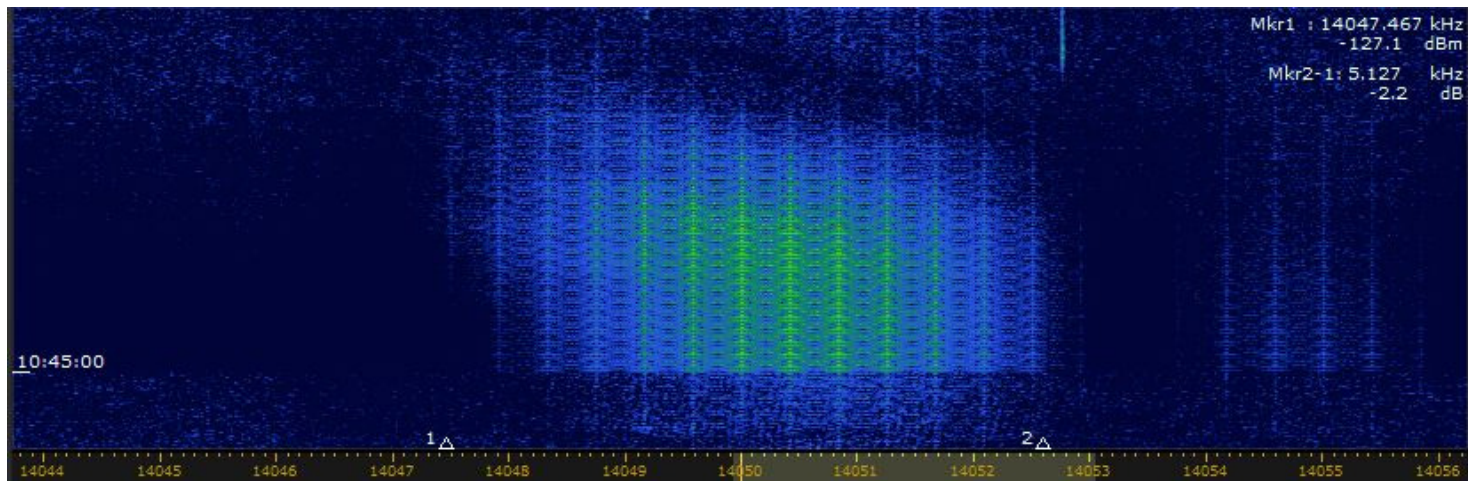
ARI: DH7SA – Salvatore ++ ARSK: 5Z4NU - Ted ++ ASTRA: DL1BDF – Mustapha ++ DARC: DK2OM – Wolf ++  
ERASD: SU1SA – Sayed ++ IARC: 4Z1AB – Amos ++ IRTS: EI9GSB - Lisa ++ KARS: 9K2RR – Faisal ++  
MARL: 9H1M – Dominic ++ MRASZ: HA7PL - Laci ++ NARS: 5N9AYM – Yusuf ++ NRRL: LA4EU – Hans Arne ++  
OEVSV: OE3GSA – Gerd ++ PZK: SP9BRP – Jan ++ RAL: OD5RI – Riri ++ REF: F5MIU – Francis ++ REP: CT4AN – Jose  
RSGB: G4BOH - Chris ++ SARL: ZS4GJA - Gideon ++ SRAL: OH2BLU - Pekka ++ SSA – Ullmar ++ UBA: ON4PN - Patrick  
URE: EB1TR - Fabian ++ USKA: HB9CET - Peter ++ VERON: PA2GRU - Dick ++ ZRS: S56ZDB – Darko ++  
G3VZV – Graham (satellite) ++ TG9ADV – Jorge (Co-ordinator Region 2) ++ VK3MV – Peter (Co-ordinator Region 3) ++  
DF8FE – (Webmaster assis.) ++ DL8AAM (ALE) ++ DJ7KG (BUOYS) ++ DF5SX (BC) ++ DARC (server support) ++  
OD5TE (Hani) ++ VE6SH – Tim (IARU President) ++ PB2T – Hans (IARU R1 President) ++ 9A5W - Nikola (EC-IARU-R1  
PTTs: German (BNetzA), BAKOM (Switzerland), OFCOM (UK) ++ Dutch AT ++ SK6AW – DX-Cluster ++ YO9RIJ - Petrica

# Part 1: News and Infos

## 1. 14050 kHz - Superdarn Ionospheric Radar from Region 3 – a quick solution

On May 10<sup>th</sup> ZL1GWE and another friend informed me about a Superdarn Radar on 14050 kHz. I checked the situation via remote Australia and indeed: It was really a Superdarn Ionospheric Radar with a continuous transmission on 14050 kHz. Bearings were showing South Australia or South New Zealand. The Radar is operated by the La Trobe University in Australia. So I informed VK3MV, Peter, Coordinator IARUMS Region 3 and John, ZL1GWE. John informed the La Trobe University, and Peter contacted the ACMA (Australian PTT). Two days later the problem was solved, the Radar disappeared from 14050. Many thanks to all involved Hams and PTTs! The screenshot shows my result via remote Australia on May 12<sup>th</sup>. Superdarn can easily be detected on sonagrams or by audio. The jumping bursts are 5 kHz wide. The long lasting signal on 14050 could have been the result of a mistuned system. **Screenshot: DK2OM with Perseus**

**soundfile:** <http://www.iarums-r1.org/iarums/sound/superdarn.wav>



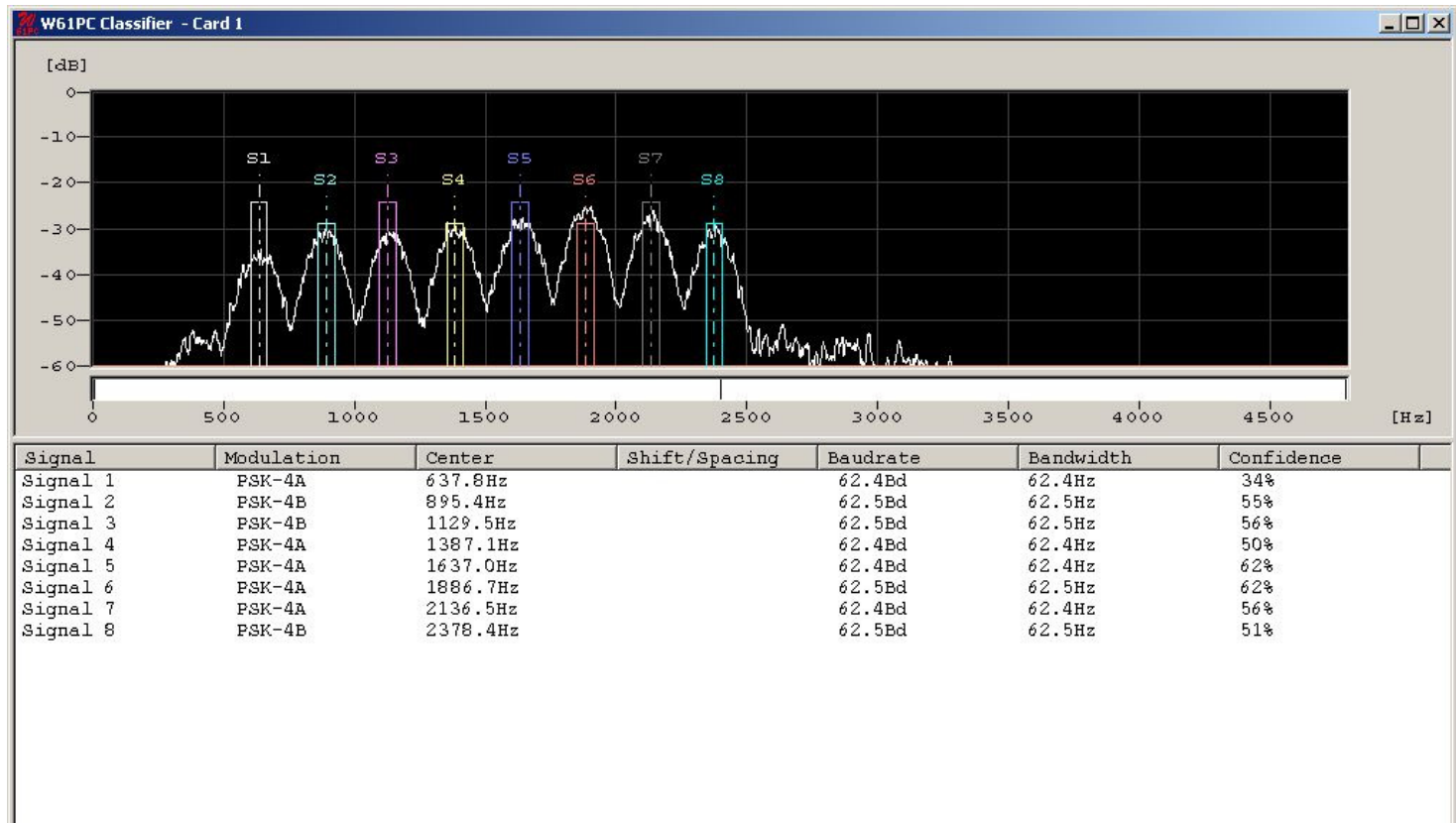
14050

## 2. Clover 2000 on 7001.5 kHz (7000.0 kHz RF)

A Clover 2000 system was operating on 7001.5 kHz (center QRG) in the evening hours. Parameters: 8 x 62.5 Bd QPSK. Location: South Algeria, purpose unknown.

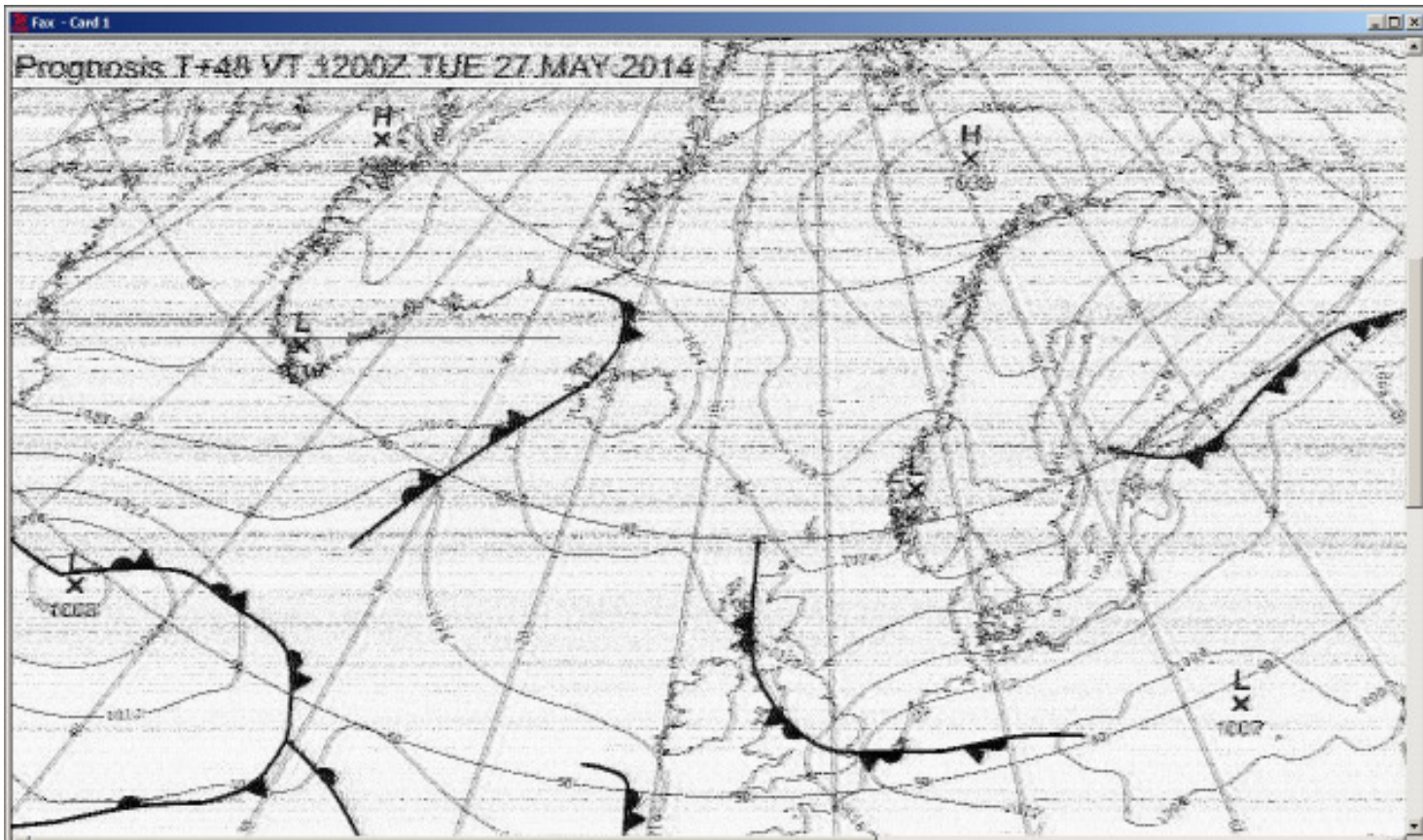
**Screenshot: DK2OM with W61PC and Wavecom Classifier**

**soundfile:** <http://www.iarums-r1.org/iarums/sound/7000clo2.wav>



### 3. 7101.9 kHz (7100.0 kHz RF) – weather-fax from UK removed

I found a WX-fax on 7101.9 kHz on May 25<sup>th</sup> with permanent emissions in the evening hours. Parameters: F1C, 120 rpm, IOC 576 – location: South Great Britain. I informed G4BOH (RSGB MS-Coordinator) and the German PTT (BNetzA) for bearings and further steps. The emissions did not contain any logo or ident. On May 26<sup>th</sup> the problem was solved by OFCOM Baldock, the WX-fax moved away. Many thanks to Chris, G4BOH, the British OFCOM at Baldock and the German BNetzA at Konstanz! An example for excellent cooperation.  
**Screenshot: DK2OM with Wavecom W-Code (V 8.5) showing date and validation header but no ident!**



### 4. 28080.5 kHz – fishery buoy from North Pacific Ocean

I detected a mysterious signal on 28060.5 kHz on May 1<sup>st</sup>. The transmission was a carrier followed by the ident “4MIG”, direction about 60 deg. from Germany. Our friends in Australia and New Zealand could help me with more details. Such signals are rather common in Region 3 and belong to fishery buoys! The ident seems to be well known there.

The other driftnet buoys in Region 1 (Atlantic Ocean) are still there. DJ7KG is observing them, collecting reception reports and publishing monthly reports. More infos: <http://www.iarums-r1.org/iarums/buoys.pdf>

### 5. Russian MIL and Navy on 14 and 20 MHz

Russian Military traffic on A1A (CW) is daily running on 14108, 14292 RUS MIL.

14317.0 and 21438.0 kHz Russian Navy at Sevastopol. Idents are RCV or RIP90 or similar. The transmissions are encrypted, which is not surprising.

### 6. Senseless actions ...

A Russian MIL modem AT3004D with submode idle was transmitting on 3670.0 kHz on May 28<sup>th</sup> at 1850 utc. Location: area of Moscow. A radio-amateur tried to disturb the pilotone on 3300 Hz AF by a carrier. The difference between the pilotone and the carrier was 21 Hz. A senseless action!

**The 80 m-band is not assigned on exclusive base. Disturbing an idling system is not very intelligent!**

### 7. Don't forget: Hamradio 2014

**June 28<sup>th</sup> – Meeting of the DARC Monitoring System at room “Swiss” – 10.00 – 11.30 local time**

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

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

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

### 8. Homepage IARU Region 1

Homepage IARUMS Region 1 <http://www.iarums-r1.org>

Homepage IARUMS Region 2 <http://www.iaru-r2.org/>

Homepage IARUMS Region 3 <http://www.iaru-r3.org/ms/>

Intruderlogger Region 1 <http://peditio.net/intruder/bluechat.cgi>

**ITU-Monitoring Reports:**

<http://www.itu.int/ITU-R/index.asp?category=terrestrial&rlink=terrestrial-monitoring&lang=en>

## Part 2: Detailed reports of the national Co-ordinators

DD = day \*\*\* MM = month \*\*\* dly = daily \*\*\* vt = various times \*\*\* vd = various days \*\*\* BD = Baud \*\*\* SH = shift \*\*\* SP = spacing \*\*\* Mode = mode of transmission \*\*\* A3E = AM \*\*\* A1A = CW \*\*\* J3E-U = USB \*\*\* J3E-L = LSB \*\*\* FSK (F1B) = frequency shift keying \*\*\* PSK = phase shift keying \*\*\* OFDM = orthogonal frequency division multiplex  
**ALE (MIL-188-141A)** = automatic link establishment \*\*\* MUX = multiplex \*\*\* **Ui (unid)** = unidentified \*\*\* **Illicit** = illegal  
**UiILL** = unidentified illegal \*\*\* **BC** = broadcast \*\*\* **MIL** = military \*\*\* **PTR** = printer \*\*\* **NGO** = non governmental organization \*\*\* **ITU** = ITU country abbreviation \*\*\* **PRC** = People's Republic of China \*\*\* **PLA** = People's Liberation Army \*\*\* **MFA** = Ministry of Foreign Affairs \*\*\* **MOI** = Ministry of Interior \*\*\* **MOPO** = Ministry of Public Order \*\*\* **IARUMS** = IARU Monitoring System \*\*\* **UTC** = Universal Time Coordinated \*\*\* **pps** = pulses per second (earlier radar systems) \*\*\* **sps** = sweeps/sec (radar systems) \*\*\* **FMCW** = frequency modulated continuous wave (OTH and coastal Radars)  
**5BL** = cyrillic 5 lettergroups

### ARSK MONITORING OVERVIEW FOR MAY 2014

No changes. There were the usual broadcasts from Radio Hargeisha on 7120 kHz, Khartoum on 7200 kHz.

E.H.M. Alleyne, 5Z4NU

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### ARSK – Kenya – 5Z4NU (Ted)

H'd by	kHz	UTC	dd	mm	ITU	Identity	Mode	Details
ARSK	7000.00	vt	dly	5	E. Africa	NGO?	J3E	Vernacular, English. Messages in phonetics.
ARSK	7075.00	vt	dly	5	E. Africa	?	J3E	Unknown African language
ARSK	7120.00	vt	dly	5	Rep.of Somaliland	Hargeisha	A3E	Daily broadcasts.
ARSK	7195.00	0650 to mid-afternoon	10 to 30	5	UGA	Uganda Radio	A3E	B'cast in KiSwahili, music, Luganda & English, to about 1200Z or later.

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

DG0JBJ (Mario) observed 159 OTH radars on 20 m, 49 OTH radars on 15 m and 51 OTH radars on 10 m in May 2014. Russian OTH radars were active again on 20 m with 10 and 50 sps – 40 kHz wide with splatters!

### DARC 2 – Germany - DK2OM (Wolf)

FSK transmissions -> center frequency between mark and space

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

exclusive bands -> black – shared bands -> blue - voice traffic -> green - BC -> red

SH = shift --- SP = spread (radar) – SPS = sweeps/sec (radar)

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	1812,0	ady	dly	05	RUS		USB LSB			14 tones – hyperbolic radio navigation system – BRAS-3/RS-10 – Kaliningrad – daily, all day
DK2OM	1880,0	ady	dly	05	BEL		PSK8	2400	2400	Stanag4285 – 600 bps long – area of Brugge – Belgium - daily
DK2OM	1881,4	ady	dly	05	F		QPSK	100	100	BC-PSK – radio navigation – Nantes – daily, all day
DK2OM	1896,5	ady	dly	05	D		PSK8	2400	2400	Stanag4285 – 600 bps long – German Navy – daily, all day
DK2OM	1925,0	vt	dly	05	I	IPL	USB			Livorno Radio, weather reports – daily, vt
DK2OM	3500,0	vt	vd	05	E		USB			Spanish fishery – every evening La Coruna and Bay of Biscay
DK2OM	3500,0	vt	dly	05	TUR		FSK8	120	1750	ALE, “201” - Turkish Red Crescent – legal!
DK2OM	3500,0	1820	04	05	RUS		FMCW		35k 30k	OTHR – 43.5 sps – 3500 – 3535 kHz and 3620 – 3650 kHz - Makhachkala – Caspian Sea
DK2OM	3503,5	vt	dly	05	G	no ITU	FSK8	125	1750	ALE – “XSS” “XPU” “XJR” – British MIL Tascomm – vt, daily - legal!

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	3504,0	2005	10	05	CIS		A3E			CIS pirates, unstable carrier, vy strong
DK2OM	3515,0	1859	25	05	CHN		FMCW		57k	Chinese OTH radar – 3515 – 3572 kHz – 43.5 sps
DK2OM	3527,0	ady	dly	05	RUS		F1B	50	200	Severomorsk - daily
DK2OM	3530,0	vt	dly	05			FSK8	125	1750	ALE, “11141”
DK2OM	3531,0	1930	06	05	RUS	REA4	N0N			carrier with spurious emissions, RUS airforce Moscow, ident: 1940 utc – daily – often disturbed by OTH radar Makhachkala
DK2OM	3543,0	1912	02	05	RUS		FMCW		60k	OTHR – 43.5 sps – 3543 – 3603 kHz – Makhachkala – Caspian Sea
DK2OM	3544,0	1530	12	05	CHN		FMCW		32k	Chinese OTH radar – 3544 – 3576 kHz – 43.5 sps
DK2OM	3544,6	1950	01	05	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3544,8	1944	20	05	TUR		PSK8	2400	2400	Stanag4285 – 600 bps long - Ankara - daily, all day
DK2OM	3545,0	2120	30	05	E		USB			Spanish fishery
DK2OM	3550,0	vt	vd	05	ALG		FSK8	125	1750	ALE, “IU50” “IU52” “FN50”
DK2OM	3550,0	vt	dly	05	F		A3E			French amateurs not respecting the bandplans (unstable carriers) – every morning
DK2OM	3550,0	1835	03	05	RUS		FMCW			OTHR – 43.5 sps – 3550 – 3600 kHz – Makhachkala – Caspian Sea
DK2OM	3550,7	1930	26	05	ISR		PSK4 PSK8	75 2400	2400 2400	hybrid modem – ISR Navy – PSK4 parallel and PSK8 serial – legal operation - daily
DK2OM	3553,8	ady	dly	05	TUR		PSK8	2400	2400	Stanag4285 – TUR MIL - Ankara – legal operation
DK2OM	3564,0	1020	06	05	CHN		FMCW		45k	Chinese OTH radar – 3564 – 3609 kHz – 43.5 sps
DK2OM	3567,0	vt	dly	05	CHN ?		FSK8	125	1750	ALE, “103” “106”
DK2OM	3576,4	ady	dly	05	I	IZ3DVW	A1A			uncoordinated beacon
DK2OM	3585,0	ady	dly	05	TWN	HLL	FIC			120 rpm, IOC 576, Wxfax - daily - legal!
DK2OM	3587,0	vt	vd	05	E	no ITU	FSK8	125	1750	ALE, “TVV” “TXX” - Spanish Guardia Civil
DK2OM	3590,0	vt	dly	05	PAK	no ITU	FSK8	125	1750	ALE, “KW” “KHAIBAR” – Pakistan navy
DK2OM	3595,0	vt	dly	05	D		FSK8	125	1750	ALE – German customs
DK2OM	3595,0	1909	16	05	RUS		USB			woman in Russian voice – St. Peterburg
DK2OM	3595,7	1948	23	05	ISR		PSK4 PSK8	75 2400	2400 2400	hybrid modem – ISR Navy – PSK4 parallel and PSK8 serial
DK2OM	3596,0	vt	dly	05	D, S, HRV		FSK8	125	1750	ALE, “DK3CW” “SA6CBK” “9A0PZ” – just for info!
DK2OM	3617,0	vt	dly	05	HRV	9A5EX	FSK8	125	1750	ALE, “9A5EX” – HAM-ALE - just for info
DK2OM	3622,5	ady	dly	05	J	JMH	FIC			Tokyo Meteo – 120 rpm – IOC576 – daily, legal!!!
DK2OM	3632,5	2000	20	05	ISR		PSK4 PSK8	75 2400	2400 2400	hybrid modem – ISR Navy – PSK4 parallel and PSK8 serial
DK2OM	3642,0	2044	08	05	CHN		A1A			endless slip – DKG6 de 3A7D Chinese military – daily, all day
DK2OM	3666,0	1350	10	05	CHN		A1A			encrypted 4 letter groups
DK2OM	3670,0	1843	28	05	RUS		PSK2	120	2600	AT3004D – Tver
DK2OM	3697,0	1534	12	05	FEa		F1B	200	850	async. - FEa
DK2OM	3725,0	1029	06	05	RUS		PSK4B	120	2600	AT3104D – Far East Russia
DK2OM	3751,5	vt	dly	05	POL	no ITU	FSK8	125	1750	ALE, “IZ3” “MI3”
DK2OM	3756,0	ady	dly	05	UKR		A3E			UKR – pip – 14 tones – hyperbolic navigation system – BRAS-2/RS-10
DK2OM	3761,5	vt	vd	05	POL		FSK8	125	1750	ALE, “NI9” “PL7” “AB2” – Polish MIL

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	3767,0	1954	23	05	RUS		PSK2A	120	2600	AT3004D - Kaliningrad
DK2OM	3776,5	1950	23	05	UKR		OQPSK	1280	1280	Kyiv - Ukraine
DK2OM	3782,0	ady	dly	05	POR	CTP	F1B	75	850	POR Navy headquarter Lisbon – disturbed by Russian OTH radar on 18.08.2013 at 1945 utc
DK2OM	3791,0	vt	vd	05	D	DK0ESD	FSK8	125	1750	ALE, “DK0ESD” – just for info!
DK2OM	7000,0	0758	23	05	INS		LSB USB			Indonesian pirates singing, chatting and playing music – daily, all day
DK2OM	7000,0	vt	vd	05	?		FSK8	125	1750	ALE, “210” “20989” “2205”
DK2OM	7000,0	1738	08	05	CHN		FMCW		48k 37k	Chinese OTH radar – 43.5 sps – 6855 – 7048 kHz and 7127 – 7164 kHz
DK2OM	7000,0	1712	12	05	E		USB			Spanish fishery
DK2OM	7001,5	1840	16	05	ALG		PSK4A	62.5	1750	Clover 2000 – 8 x 62.5 Bd – South Algeria
DK2OM	7001,8	1716	07	05	TUR		PSK8	2400	2400	Stanag4285 – 600 bps long – Ankara
DK2OM	7001,9	1930	25	05	G	no ident	F1C		800	weather-fax – 120 rpm and IOC 576 - showing barometric pressure in Europe and NWAtlantic – location: South England – disappeared on May 26 <sup>th</sup> at about 0700 utc
DK2OM	7005,0	1825	15	05	FEa		FMCW		34k	CODAR like ocean radar with 2.5 sps – 7005 – 7039 kHz
DK2OM	7008,0	1015	06	05	RUS		F1B	75	200	Moscow
DK2OM	7009,0	1830	22	05	RUS		PSK2A	120	2600	AT3004D – Kursk
DK2OM	7016,0	1015	06	05	RUS		F1B	50	250	Smolensk
DK2OM	7020,0	vt	vd	05			FSK8	125	1750	ALE, “CS5004A” “RS0013D” – NC3A network? – area of Kosovo
DK2OM	7038,7	1900	02	05	RUS	D	A1A			Cluster beacon – Sevastopol RUS Navy – “RCV”
DK2OM	7038,8	1900	02	05	RUS	P	A1A			Cluster beacon – Kaliningrad RUS Navy – “RMP”
DK2OM	7038,9	1900	02	05	RUS	S	A1A			Cluster beacon – Severomorsk RUS Navy – „RIT“
DK2OM	7039,0	1945	24	05	RUS	C	A1A			Cluster beacon - Moscow RUS Navy - “RIW”
DK2OM	7039,1	---	---	05	KGZ	A	A1A			Cluster beacon – Bishkek RUS Navy – “RJH25”
DK2OM	7039,2	1902	02	05	RUS	F	A1A			Cluster beacon - Vladivostok RUS Navy - “RJS”
DK2OM	7039,3	2022	21	05	RUS	K	A1A			Cluster beacon - Petropavlovsk Kamchatskiy - RUS Navy - Pacific fleet - “RCC”
DK2OM	7039,4	2022	21	05	RUS	M	A1A			Cluster beacon – Magadan RUS Navy – „RTS“
DK2OM	7039,95	ady	dly	05	I	IZ3DVW	A1A			IZ3DVW – uncoordinated beacon, daily, all day
DK2OM	7040,0	vt	dly	05	F	F6BAZ	FSK8	125	1750	ALE, “F6BAZ” – just for info
DK2OM	7040,0	1820	10	05	I		A1A			IZ3DVW – uncoordinated and unwanted beacon
DK2OM	7040,5	vt	dly	05	HRV		FSK8	125	1750	ALE, “9A5EX” “9A0ALE” – just for info
DK2OM	7047,37	1700	20	04	D		FSK8	125	1750	ALE, “DL0NOT” – just for info!
DK2OM	7049,5	vt	dly	05	HRV G F	9A0ALE M1DFO F6BAZ	FSK8	1250	1750	Amateur ALE, just for info!
DK2OM	7054,0	---	---	05	RUS		F1B	50	200	CIS50-50 - RUS Navy Moscow – not active
DK2OM	7055,0	1904	02	05	CHN		FMCW		30k	Chinese OTH radar – 7055 – 7085 kHz - 43.5 sps
DK2OM	7055,5	vt	vd	05	GEO		FSK8	125	1750	ALE, “111” “132” “133” - Georgia
DK2OM	7057,0	2133	09	05	MEa		FSK8	125	1750	ALE, “145” “168”– ship, East Black Sea

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	7060,0	1624	18	05	FEa		FMCW		32k	CODAR like ocean radar with 2.5 sps – 7060 – 7092 kHz – daily – audible via Japan and Australia
DK2OM	7070,0	vt	dly	05	GEO	no ITU	FSK8	125	1750	ALE, “MV” “244” “686” “334” “204” “571” – daily active
DK2OM	7088,8	vt	vd	05	S	SLOFRO	A1A			7088.830 - cw-trainee, Sweden – kHz – SLOFRO - just for info!
DK2OM	7089,8	vt	vd	05	TUR		PSK8	2400	2400	Link11 - SLEW – aircraft – Turkish S. coast - Antalya
DK2OM	7099,5	vt	dly	05	HRV	9A0ZG	FSK8	125	1750	ALE, “9A0ZG” “9A5EX” “9A0OS” – daily - just for info!
DK2OM	7102,0	vt	dly	05	HRV SUI D	9A0ALE	FSK8	125	1750	ALE, “9A0ALE” “9A2KS” “HB9MHB” “9A0ZG” “DK0ESD” – just for info!
DK2OM	<b>7105,0</b>	<b>1400</b>	<b>04</b>	<b>05</b>	<b>TWN CHN</b>	<b>SOH</b>	<b>A3E</b>		<b>9k</b>	<b>Sound of Hope / Taiwan and Chinese mainland BC</b>
DK2OM	7110,0	vt	dly	05	HRV	9A0ALE	FSK8	125	1750	ALE, “9A0ALE” – just for info
DK2OM	7110,0	vt	dly	05			FSK8	125	1750	ALE, “1101” “1112”
DK2OM	<b>7120,0</b>	<b>1700</b>	<b>dly</b>	<b>05</b>	<b>SOM</b>		<b>A3E</b>		<b>9k</b>	<b>Radio Hargaysa Somalia, daily</b>
DK2OM	7137,0	vt	dly	05	TWN	no ITU	FSK8	125	1750	LSB – ALE , “ACCENT” “ABLAZE” “ABOUND” “AGHAST” “ARTIST” “ANYWAY” “ABJECT” “ADROIT” – Taiwanese navy – daily – various times - tnx for info: DL8AAM
DK2OM	7141,0	1907	02	05	RUS		PSK2	120	2600	AT3004D – Far East-Russia
DK2OM	7164,0	0522	22	05	UKR		A1A			encrypted
DK2OM	7183,0	vt	dly	05	SUI		FSK8	125	1750	ALE, “HB9MHB” – just for info!
DK2OM	7185,5	vt	dly	05	D HRV		FSK8	125	1750	ALE, “9A5EX” “DK0ESD” just for info - daily
DK2OM	7197,0	vt	dly	05	TUR		FSK8	125	1750	ALE, “8241” “206102” “8151” “3021” “3761” “8021” “8141” “3061” “3241” “8411” – Turkish Sivil Avunma = Turkish Civil Defense - source: DL8AAM
DK2OM	<b>7200,0</b>	<b>2200</b>	<b>dly</b>	<b>05</b>	<b>CHN TWN</b>		<b>A3E</b>			<b>Sound of Hope TWN and Chinese jammer – 2 carriers 4 Hz difference - daily</b>
DK2OM	10100,8	ady	dly	05	D		F1B	50	450	Baudot - German Weatherservice – legal!
DK2OM	10110,3	1900	31	05	TUR		N0N		600	carrier system – 100 Hz spacing – very unclean – west of Izmir
DK2OM	10113,0	vt	dly	05	TUN	no ITU	FSK8	125	1750	ALE, “TUD”
DK2OM	10114,8	0520	05	05	RUS		F1B	100	1000	CIS14 – Moscow
DK2OM	10115,0	vt	vd	05			FSK8	125	1750	ALE, “2001” “2002”
DK2OM	10119,5	1935	15	05	INS		PSK8A	2400	2400	MIL-188-110A - Sumatra
DK2OM	10123,0	vt	dly	05	ALG	no ITU	FSK8	125	1750	ALE, “CM3” “COF” “BSF” “CM2” “ESA”
DK2OM	10126,0	0846	22	05	RUS		PSK2A	120	2600	AT3004D - Severomorsk
DK2OM	10130,0	vt	dly	05	MRC		FSK8	125	1750	Thales 3000 – West Sahara – daily - vt
DK2OM	10133,0	1410	21	05	RUS		PSK2A	120	2600	AT3004D – 2 pilottones - Severomorsk
DK2OM	10136,0	vt	dly	05	ALG		FSK8	125	1750	ALE, “CM3” “BLD” “CNC” “TF2”
DK2OM	10136,0	ady	dly	05	RUS		F1B	50	200	Chita – Far East Russia - daily
DK2OM	10144,0	ady	dly	05	D	DK0WCY	A1A			10143.986 kHz - DK0WCY – German aurora beacon – just for info!
DK2OM	10145,5	vt	dly	05	HRV S / D F / G	9A5EX	FSK8	125	1750	ALE, “9A5EX” “SM5VRH” “DK0ESD” “F6BAZ” “MIDFO” - just for info - daily
DK2OM	13999,5	1750	30	05			USB			pirates, splattering up
DK2OM	14000,0	1458	23	05	INS		USB			Indonesian pirates
DK2OM	14000,0	1430	21	05	I		USB			pirates in Italian voice

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	1400,0	1507	30	05	CLN		USB			Sri Lanka fishery
DK2OM	14008,0	0645	08	05	RUS		F1B	50	250	Moscow
DK2OM	14008,6	2130	29	05	CLN		USB			Sinhala fishery
DK2OM	14010,0	1002	07	05	RUS		PSK2	120	2600	AT3004D – submode idle - Kaliningrad
DK2OM	14011,5	1845	16	05	CHN		PSK4A	2400	2400	East China Sea - ship
DK2OM	14015,0	1548	20	05	RUS		F1B	75	250	Kaliningrad
DK2OM	14030,0	1419	21	05	RUS		PSK2A	120	2600	AT3004D – Kaliningrad
DK2OM	14050,0	1026	12	05	AUS		FMCW		5k	Superdarn – Ionospheric Radar
DK2OM	14060,0	vt	vd	05	ISR		FSK8	125	1750	ALE, “AAA” - Israel
DK2OM	14083,0	0808	06	05	RUS		PSK2A	120	2600	AT3004D - Novosibirsk
DK2OM	14089,0	2250	26	05	RUS		OFDM		2600	Orenburg
DK2OM	14100,0	1219	02	05	RUS		FMCW		10k	OTH radar 50 sps – Nizhny Novgorod
DK2OM	14108,0	0714	16	05	RUS		A1A			RUS MIL Moscow
DK2OM	14109,0	vt	dly	05	ISR	4X1	FSK8	125	1750	ALE, “4X1” “CT2IXQ” – just for info!
DK2OM	14109,0	vt	dly	05	CAN		FSK8	125	1750	ALE, “VE3GDZ” – just for info!
DK2OM	14110,0	1434	06	05	RUS		F1B	75	250	Chita
DK2OM	14114,0	1900	18	05	RUS		FMCW		10k	OTH radar 50 sps – Nizhny Novgorod – long lasting – even audible in Australia, Japan and USA
DK2OM	14122,0	1606	02	05	RUS		FMCW		10k	OTH radar 50 sps – Nizhny Novgorod – long lasting
DK2OM	14128,0	0715	14	05	RUS		FMCW		10k	OTH radar with 50 sps – Nizhny Novgorod
DK2OM	14137,8	1845	18	05	CHN		PSK4A	44.44	2300	system PRC39
DK2OM	14140,0	1535	03	05	RUS		FMCW		10k	OTH radar 50 sps – Nizhny Novgorod – long lasting
DK2OM	14141,0	0706	07	05	RUS		F1B	75	500	Moscow
DK2OM	14156,0	0805	14	05	CHN		OFDM	60	2350	OFDM 30 – LSB - China
DK2OM	14192,0	0915	01	05	RUS		F1B	50	200	RUS navy Kaliningrad – vd, vt
DK2OM	14192,5	2300	26	05	CHN		PSK-parallel	44.44	2300	PRC 39 tone – West China
DK2OM	14205,0	vt	dly	05	CHN ?	no ITU	FSK8	125	1750	ALE, “505” “822” – 60 deg. from DL - CHN ?
DK2OM	14205,0	0850	29	05	RUS		FMCW		10k	OTH radar 50 sps – Nizhny Novgorod – long lasting
DK2OM	14225,0	1635	08	05	RUS		FMCW		10k	OTH radar 50 sps – Nizhny Novgorod – long lasting
DK2OM	14226,0	0900	03	05	RUS		F1B	75	250	Moscow
DK2OM	14238,0	1600	02	05	RUS		FMCW		10k	OTH radar 50 sps – Nizhny Novgorod
DK2OM	14242,0	0625	12	05	RUS		PSK2A	120	2600	AT3004D - Moscow
DK2OM	14245,0	1940	15	05	RUS		FMCW		10k	OTHR Contayner – 50 sps – Nizhny Novgorod
DK2OM	14252,0	1540	06	05	RUS		FMCW		10k	OTH radar 50 sps – Nizhny Novgorod – long lasting
DK2OM	14253,0	1425	02	05	RUS		F1B	75	250	Penza – also: 30.04.2014 at 0920 utc
DK2OM	14258,0	0709	07	05	RUS		FSK4	50	750	F1B and FSK4 - Gagarin
DK2OM	14260,0	vt	dly	05	SRB		FSK8	125	1750	ALE, “YU1BI” – just for info!
DK2OM	14265,0	vt	vd	05	TUR		FSK8	125	1750	ALE, “526”
DK2OM	14265,0	0800	04	05	RUS		PSK2A	120	2600	AT3004D - Penza
DK2OM	14270,0	0606	19	05	RUS		FMCW	10k		OTH radar 50 sps – Nizhny Novgorod
DK2OM	14271,0	1730	08	05	CHN		FMCW		10k	Chinese OTH burst radar – 66.7 sps
DK2OM	14280,0	1010	Wed	05	UKR		A3E			female voice with encrypted msgs – figures – “SZRU” = Foreign Intelligence Service of Ukraine at Rivne – every Wednesday
DK2OM	14280,0	0640	23	05	RUS		FMCW		10k	OTH radar 50 sps – Nizhny Novgorod
DK2OM	14292,0	0653	08	05	RUS		A1A			encrypted - Jekaterinburg
DK2OM	14292,5	2015	12	05	CHN		PSK4A	2400	2400	NE of Taiwan – ship ?



DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	14295,0	vt	dly	05	SRB	YU1BI	FSK8	125	1750	ALE, "YU1BI" – just for info!
DK2OM	14295,1	ady	dly	05	TJK		A3E			3 <sup>rd</sup> from Radio Tajik on 4765 kHz
DK2OM	14305,8	1828	29	05	CHN		PSK-parallel	44.44	2300	PRC-39 –MIL-188-110A – App. B - modified
DK2OM	14317,0	0849	17	05	RUS	RCV	A1A			RUS naval base Sevastopol - encrypted, cyrillic letters
DK2OM	14317,0	1816	11	05	RUS		FMCW		10k	OTH radar 50 sps – Nizhny Novgorod – long lasting – even audible in USA
DK2OM	14322,0	vt	dly	05	CHN		FSK8	125	1750	ALE, "402"
DK2OM	14323,0	0803	04	05	RUS		F1B	200	1000	Moscow
DK2OM	14328,0	vt	dly	05	CHN		FSK8	125	1750	ALE, "139" "534" "772" – West China
DK2OM	14330,0	vt	dly	05			FSK8	125	1750	ALE, "BV4"
DK2OM	14335,0	1955	15	05	RUS		PSK2A	120	2600	AT3004D - Belgorod
DK2OM	14344,7	1302	01	05	CHN		PSK8	2400	2400	modified MIL-188-110A - 600 bps short – 14344.650 kHz – daily, all day
DK2OM	14346,0	vt	vd	05	HRV RUS D		FSK8	125	1750	ALE, "9A0ZG" "RX3ARZ" "DK0ESD" – just for info – various times, daily
DK2OM	14346,0	vt	dly	05	THA	HS0ZEA	A1A			HS0ZEA beacon – 14345.950 kHz - every 5 minutes – just for info!
DK2OM	18079,3	2040	13	05	CHN		PSK4A	75	2250	PRC4+4 – Lanzhou - China
DK2OM	18080,0	0836	11	05	CYP		FMCW		20k	OTH radar Cyprus – 25 sps - even audible in Japan and Australia
DK2OM	18080,0	0700	dly	05	TWN CHN	SOH	A3E		9k	Sound of Hope / Taiwan and Chinese mainland BC
DK2OM	18100,0	vt	dly	05	MRC	no ITU	FSK8	125	1750	ALE, "C3" "R3" "G3"
DK2OM	18107,0	0918	01	05	RUS	RDL	F1B	50	200	Moscow – idle and traffic – Russian navy – various days and times – legal operation
DK2OM	18117,5	vt	vd	05	POR	CT2IXQ	FSK8	125	1750	ALE, "CT2IXQ" – just for info
DK2OM	18140,0	vt	dly	05	SRB	YU1BI	FSK8	125	2600	ALE, "YU1BI" – just for info!
DK2OM	18141,5	1910	12	05	CHN		PSK4A	2400	2400	SW China – also: 16.05.14 at 1900 utc
DK2OM	18150,0	0720	27	05	RUS		F1B	100	1000	harmonic from 9075 - Kaliningrad
DK2OM	20998,5	1700	20	05		TB2	USB			illegal traffic in Spanish voice, splattering up
DK2OM	21000,0	vt	vd	05	SDN		USB			MFA Sudan – Khartoum with emba Yemen – voice traffic
DK2OM	21000,0	0802	12	05	F		FMCW		20k	OTH radar – 6 sps bursts – South France – full hour 02 min. and then every 15 min.
DK2OM	21000,0	0750	08	05	BLR		N0N			carrier – SE Belarus
DK2OM	21000,0	1818	26	05	B		USB			Brazilian pirates (fishery ?) – Rio - de Janeiro with North Brazil
DK2OM	21002,0	0858	17	05	RUS		PSK2A	120	2600	AT3004D – 2 pilottones - RUS navy Kaliningrad
DK2OM	21002,1	0954	26	05	SDN	!0000	F1B	100	170	21002.15 kHz - Pactor 1 encrypted – MFA Sudan – Khartoum with emba Yemen – daily, vt
DK2OM	21050,0	2030	16	05	CYP		FMCW		20k	OTH radar Cyprus – 50 sps
DK2OM	21096,0	vt	dly	05	INS	YD00XH	FSK8	125	1750	ALE, "YD00XH3" – daily, various times - just for info!
DK2OM	21116,0	1031	01	05	RUS		F1B	75	1000	harmonic from 5279.0 kHz - Moscow
DK2OM	21131,0	vt	vd	05	CHN		FSK8	125	1750	ALE, "A92" "L02" – Chinese Navy?
DK2OM	21140,0	1009	05	05	RUS		FMCW		20k	OTH radar with 10 sps – Nizhny Novgorod – short burst
DK2OM	21141,8	vt	vd	05	MEa		PSK8	2400	2400	MIL-188-141B – App.C and Stanag5438 – daily, various times

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	21145,0	0807	14	05	MRC		FSK8	125	1750	ALE, "B301", "C3", "IR4" "T4" "E4" "A2" "CD" "K3" "KB2" "J5" "GS4" – various times, daily
DK2OM	<b>21145,8</b>	<b>0700</b>	<b>08</b>	<b>05</b>	<b>I</b>	<b>IZ3DVW</b>	<b>A1A</b>			<b>IZ3DVW – uncoordinated and unwanted beacon</b>
DK2OM	21223,5	0420	28	05	IRN IND		F1B	600	600	DPRK-FSK 600 – North Korean emba Tehran and emba New Delhi
DK2OM	21231,8	0939	26	05	GEO		PSK8A	2400	2400	Stanag4538
DK2OM	21270,0	1055	05	05	CYP		FMCW		20k	OTH radar Cyprus – 50 sps
DK2OM	21285,0	0729	30	05	AUS		FMCW		10k	Australian OTH burst radar JORN
DK2OM	21300,0	0843	16	05	RUS		FMCW			OTH radar with 10 sps – Nizhny Novgorod
DK2OM	21307,0	1055	01	05	CHN		FMCW		10k	Chinese OTH burst radar – 66.7 sps
DK2OM	21318,5	0810	05	05	IND		F1D	600	600	21318,545 - DPRK-FSK 600 – North Korean emba New Delhi
DK2OM	21318,5	1555	15	05	GMB		F1B	600 1200	600 1200	DPRK-FSK600 / 1200 – North Korean embassy Gambia
DK2OM	21338,0	1055	01	05	CHN		FMCW		10k	Chinese OTH burst radar – 66.7 sps
DK2OM	21346,0	0942	01	05	THA	HS0ZEA	A1A			beacon "HS0ZEA" – just for info!
DK2OM	21363,0	1049	15	05	CHN		FMCW		10k	Chinese OTH burst radar – 66.7 sps
DK2OM	21367,0	1049	15	05	CHN		FMCW		10k	Chinese OTH burst radar – 66.7 sps
DK2OM	<b>21375,0</b>	<b>1918</b>	<b>06</b>	<b>05</b>	<b>E</b>		<b>USB</b>			<b>Spanish pirates, male and female – same as 21420 kHz</b>
DK2OM	21378,0	1048	15	05	CHN		FMCW		10k	Chinese OTH burst radar – 66.7 sps
DK2OM	<b>21380,0</b>	<b>1615</b>	<b>05</b>	<b>05</b>	<b>E</b>	<b>PEPE</b>	<b>USB</b>			<b>Spanish pirates, male and female (Cadiz)</b>
DK2OM	21380,0	0730	30	05	CHN		FMCW		10k	Chinese OTH burst radar – 66.7 sps
DK2OM	21385,0	0720	30	05	CHN		FMCW		10k	Chinese OTH burst radar – 66.7 sps
DK2OM	<b>21390,0</b>	<b>1522</b>	<b>05</b>	<b>05</b>	<b>E</b>		<b>USB</b>			<b>Spanish pirates, male and female – same as 21420 kHz</b>
DK2OM	21400,0	0840	16	05	RUS		F1B	50	2000	harmonic from 5350 kHz – area of Moscow - daily
DK2OM	21400,0	1535	12	05	CYP		FMCW		20k	OTH radar Cyprus – 50 sps
DK2OM	21409,5	0700	08	05	RUS		F1B	100	2000	CIS14 – harmonic from 10704.75 - Jekaterinburg
DK2OM	<b>21410,0</b>	<b>1631</b>	<b>05</b>	<b>05</b>	<b>E</b>		<b>USB</b>			<b>Spanish pirates, male and female – same as 21420 kHz</b>
DK2OM	21419,0	1045	15	05	CHN		FMCW		10k	Chinese OTH burst radar – 66.7 sps
DK2OM	<b>21420,0</b>	<b>1600</b>	<b>dly</b>	<b>05</b>	<b>E</b>	<b>„Pepe“</b>	<b>USB</b>			<b>Spanish pirates, male and female (Cadiz) – fishery net</b>
DK2OM	21422,0	0727	02	05	CHN		FMCW		10k	Chinese OTH burst radar – 48 sps
DK2OM	21422,0	1045	15	05	CHN		FMCW		10k	Chinese OTH burst radar – 66.7 sps
DK2OM	21425,0	2140	28	05	PHL		LSB			fishery traffic - Philippines
DK2OM	<b>21430,0</b>	<b>vt</b>	<b>vd</b>	<b>05</b>	<b>E</b>		<b>USB</b>			<b>Spanish pirates – same as 21420</b>
DK2OM	21438,0	0838	16	05	RUS	RCV	A1A			RIP90 de RCV - RUS Navy Sevastopol - daily
DK2OM	21446,0	ady	dly	05	THA	HS0ZEA	A1A			HS0ZEA beacon – every 5 minutes - just for info!
DK2OM	25000,0	ady	dly	05	FIN		A3E			time signal Helsinki – just for info – carrier on 25000 – dots on 25001 and 24999 – daily, all day
DK2OM	<b>28000,0</b>	<b>vt</b>	<b>dly</b>	<b>05</b>	<b>CIS</b>		<b>F3E</b>			<b>28000 – 29700 numerous CIS taxi nets – mostly Russia</b>
DK2OM	<b>28000,0</b>	<b>ady</b>	<b>dly</b>	<b>05</b>	<b>B</b>		<b>A3E</b>			<b>Brazilian CBers – 28000 - 28315</b>

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	28000,0	0844	03	05	RUS		F1B USB	100	150	vocoder Yakhta – F1B synchro and encrypted voice - Novosibirsk
DK2OM	28002,0	1532	10	05	CAR		N0N			oscillating carrier – unstable – Caribbean region
DK2OM	28005,0	ady	dly	05	RUS		F3E			taxi net St. Peterburg, daily, all day
DK2OM	28025,0	2016	11	05	POR		F1B	51	320	F1B bursts - west of Lisbon – daily
DK2OM	28035,0	vt	dly	05	RUS		F3E			taxi Moscow - daily
DK2OM	28040,1	1938	20	05	POR		F1B	51	320	F1B bursts - west of Lisbon – Enagal GPS buoys - daily
DK2OM	28050,0	vt	dly	05	POR		F1B	51	320	F1B bursts - 28100.160 kHz - west of Lisbon – Enagal GPS buoys - daily
DK2OM	28055,0	vt	dly	05	RUS		F3E			taxi Moscow - daily
DK2OM	28065,0	vt	dly	05	RUS		F3E			taxi Moscow - daily
DK2OM	28080,5	0814	01	05	FEa	4MIG	A1A			fishery buoy “4MIG” – QTE 60° - Pacific area
DK2OM	28085,0	1747	06	05	POR		F1B	51	320	F1B bursts - 28100.160 kHz - west of Lisbon – Enagal GPS buoys - daily
DK2OM	28100,2	1754	18	05	POR		F1B	51	320	F1B bursts - 28100.160 kHz - west of Lisbon – Enagal GPS buoys - daily
DK2OM	28105,0	vt	dly	05	RUS		F3E			taxi Moscow
DK2OM	28105,0	0845	23	05	E		A3E			Spanish CBers
DK2OM	28115,0	vt	dly	05	RUS		F3E			taxi – Kazan – daily – disturbing AFU PSK on 28120
DK2OM	28125,0	vt	dly	05	POR		F1B	51	320	F1B bursts - 28100.160 kHz - west of Lisbon – Enagal GPS buoys - daily
DK2OM	28130,0	1308	11	05	CYP		FMCW		20k	OTH radar Cyprus – 50 sps
DK2OM	28135,0	vt	dly	05	RUS		F3E			taxi – Barnaul - daily
DK2OM	28146,0	vt	vd	05	ARG B		FSK8	125	1750	ALE, “LU8EX” “PY2TI” “DL1” – just for info!
DK2OM	28155,0	0900	29	05	RUS		F3E			taxi Moscow
DK2OM	28162,3	0714	07	05	MRC		USB			Moroccan fishery
DK2OM	28200,0	vt	dly	05	POR		F1B	51	300	F1B bursts - west of Lisbon – Enagal GPS buoys - daily
DK2OM	28205,0	vt	dly	05	RUS		F3E			taxi Moscow
DK2OM	28210,0	1530	03	05	TUR		FMCW		20k	OTH radar NW Turkey – 25 sps
DK2OM	28215,0	vt	dly	05	RUS		F3E			taxi Moscow
DK2OM	28255,0	vt	dly	05	RUS		F3E			taxi Moscow
DK2OM	28265,0	vt	dly	05	RUS		F3E			taxi Moscow
DK2OM	28275,0	0935	27	05	E		A3E			Spanish CBers
DK2OM	28275,0	1428	23	05	POR		F1B	51	320	F1B bursts - west of Lisbon – Enagal GPS buoys - daily
DK2OM	28290,0	1543	29	05	IRN		FMCW		50k	OTH radar Iran – 307 and 870 sps – splattering +/- 300kHz
DK2OM	28300,0	0731	30	05	IRN		FMCW		50k	OTH radar Iran – 307 and 870 sps – splattering +/- 300kHz
DK2OM	28305,0	vt	dly	05	RUS		F3E			taxi - Arkhangelsk
DK2OM	28346,1	1818	18	05	GAB		A3E			carrier and dots in USB and LSB, bursts every 60 sec – 28346.110 kHz carrier – Gabon – daily and all day
DK2OM	28435,0	---	---	05	E		F1B	81.9	140	Datawell-buoy “Waverider” – 28435.040 kHz – Costa del Sol - Malaga
DK2OM	28600,0	1010	09	05	IRN		FMCW		50k	OTH radar Iran – 307 and 870 sps – splattering +/- 300kHz
DK2OM	29250,0	---	--	05	E		F1B	81.9	140	Datawell-buoy “Waverider” – 29249.905 kHz – Fuerteventura - daily, all day
DK2OM	29375,0	vd	vt	05	I		F1B	81.9	140	Datawell-buoy “Waverider” – 29374.898 kHz – Gallipoli, South Italy - daily, all day

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	29387,5	---	--	05	IND		F1B	81.9	140	Datawell-buoy "Waverider" – 29387,460 kHz – Indian NW coast, close to Pakistan - daily, all day
DK2OM	29450,0	1940	20	05	MRC		F1B	81.9	140	Datawell-buoy "Waverider" – 29449.870 kHz - area of El Aaiun – Morocco - daily, all day
DK2OM	29500,0	---	--	05	G		F1B	81.9	140	Datawell-buoy "Waverider" – area of Gibraltar – daily, all day
DK2OM	29525,0	---	---	05	MRC		F1B	81.9	140	Datawell-buoy "Waverider" – 29524.990 kHz - Agadir - Morocco – daily, all day

**IRTS – Ireland – EI5DD (Steve)**

**KARS – Kuwait – 9K2RR (Faisal)**

**MRASZ 1 – Hungary - HA7PL (Laci)**

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	DETAILS
MRASZ	3580,5	1944	19	5			A1A		quick dotter
MRASZ	3598,0	1952	8	5			A3E		french language
MRASZ	3602,0	2000	8	5			A3E		french language
MRASZ	7000,0	1810	13	5			8PSK		Stanag ?
MRASZ	7000,0	1729	31	5			LSB		italian male's
MRASZ	7000,1	1926	23	5	RUS	D	A1A		"D" beacon, weak
MRASZ	7000,8	1850	12	5			N0N		
MRASZ	7002,0	1716	7	5			8PSK		Stanag ?
MRASZ	7009,0	1758	28	5			PSK2		AT3004D
MRASZ	7009,0	0704	29	5			PSK2		AT3004D
MRASZ	7018,0	1703	7	5			OTHR		abt 50 kHz wide
MRASZ	7027,0	2034	27	5			A1A		slow V V V
MRASZ	7027,0	1756	31	5			A1A		slow V V V
MRASZ	7030,0	1848	12	5			SSTV		"I0KWK"
MRASZ	7038,7	vt	ady	5	UKR	D	A1A		"D" beacon
MRASZ	7038,8	1722	8	5	RUS	P	A1A		„P” beacon, hrd on: 11,12,16,25,28,30
MRASZ	7038,9	vt	ady	5	RUS	S	A1A		"S" beacon
MRASZ	7039,0	1850	20	5	RUS	C	A1A		"C" beacon
MRASZ	7048,0	1715	7	5			PSK2		AT3004D
MRASZ	7050,0	1857	13	5	UKR		A3E		music till 2204 + news abt ukr. occurrence
MRASZ	7050,0	2011	13	5	UKR		LSB		ukr. hams continuously during many days
MRASZ	7120,0	vt	ady	5	SOM		A3E		BC Radio Hargaysa
MRASZ	7157,0	1724	7	5			A3E		UiBC, also hrd on: 8
MRASZ	7182,5	1858	23	5			N0N		with hum
MRASZ	7190,0	1742	8	5			N0N		
MRASZ	14008,0	0649	8	5			F1B	250	
MRASZ	14063,0	1851	23	5			PSK2		AT3004D
MRASZ	14100,3	1805	28	5			N0N		
MRASZ	14110,0	1934	18	5			OTHR		14100-14120
MRASZ	14120,0	1858	16	5			OTHR		
MRASZ	14125,0	832	14	5			OTHR		14117-14133
MRASZ	14130,0	1853	23	5			OTHR		14110-14145 +50 dB!
MRASZ	14141,0	1509	11	5			F1B	500	
MRASZ	14146,0	2126	30	5			OTHR		
MRASZ	14221,0	2125	30	5			F1B	200	
MRASZ	14265,0	1927	20	5			OTHR		
MRASZ	14295,1	vt	ady	5	TJK		A3E		Radio Tajikistan 3 x 4765 kHz
MRASZ	14335,0	1952	19	5			PSK2		AT3004D
MRASZ	21065,0	0706	29	5			OTHR		21050-21080
MRASZ	28070,0	1808	28	5			OTHR		
MRASZ	28160,0	1807	28	5			OTHR		26160-28240

## OEVSV – Austria – OE3GSA (Gerd)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
oevsv	7010.0	0500	27	05	unid	unid	CIS12			
oevsv	7013.2	0450	19	05	unid	unid	N0N			tuning
oevsv	14013.2	0612	21	05	unid	unid	J3Eu			males chatting in spanish
oevsv	14013.2	0500	09	05	unid	unid	J3Eu			males in spanish
oevsv	18975.9	0450	18	05	EA	unid	J3El			spanish fishermen
oevsv	18080.0	0602	12	05	BY	unid	A3A			chinese BC in deep QSB
oevsv	18080.0	0610	05	05	BY	unid	A3A			chinese BC, 2 stations interfering
oevsv	18080.0	0635	04	05	BY	unid	A3A			chinese BC, 2 stations interfering

## PZK – Poland – SP9BRP (Jan)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
PZK	7124	19:06	30	05		E75A	A1A			MIL
PZK	14252	15:20	06	05		RUSSIA	FMCW			OTH radar
PZK	28090	12:20	12	05		RUSSIA	FMCW			OTH radar

## REF 1 – France – F5MIU (Francis)

## REF 2 – France – F5JBR (Andre)

## REP – Portugal – CT4AN (Jose Francisco)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REP	3510	23.16	14	05			J3E-U			Fishermen
REP	3525	22.33	03	05	E		J3E-U			Fishermen net with family (phone-patch)
REP	3535	17.20	18	05			J3E-U			Unid language
REP	3555	20.31	09	05	G		J3E-U			Fishermen
REP	3592	22.37	31	05	G		J3E-U			UK fishermen
REP	3594	22.03	19	05	RUS	S	A1A			ARKHANGELSK
REP	3705	06.49	22	05	RUS		J3E-U			Russian Navy (MIL)
REP	3785	02.12	12	05	CHN		J3E-U			Chinese fishery, various operators chatting S-9
REP	7000	18.18	01	05	I		J3E-L			Italian pirates
REP	7000	16.02	03	05	I		J3E-L			Italian pirates
REP	7015	08.35	02	05			J3E-U			Tests audio/voice
REP	7015	07.44	11	05	E		J3E-U			Fishermen to harbour
REP	7015	08.05	18	05	E		J3E-U			Fishermen talking about fish
REP	7025	06.14	24	05	MRC		J3E-U			Fishermen
REP	7032	20.14	21	05			FMCW			OTH radar
REP	7038	22.00	04	05	RUS	S	A1A			KALININGRAD, ADY, DLY
REP	7038	22.16	04	05	UKR	D	A1A			SEVASTOPOL, ADY, DLY
REP	7038	22.18	04	05	RUS	P	A1A			MURMANSK, ADY, DLY
REP	7039	22.20	04	05	RUS	C	A1A			MOSCOW, ADY, DLY
REP	7039	23.07	10	05	RUS	A	A1A			VOLGOGRAD, ADY, DLY
REP	7039	23.33	10	05	RUS	F	A1A			KAMCHATSKY, ADY, DLY
REP	7039	21.49	07	05	RUS	K	A1A			VOLGOGRAD, ADY, DLY
REP	7039	21.59	07	05	RUS	M	A1A			MAGADAN, ADY, DLY
REP	7041	22.12	19	05	RUS	L	A1A			St PETERSBURG, ADY, DLY
REP	7065	23.04	19	05			F1B	50	200	Unid FSK
REP	7084	17.15	01	05	F		F3E			NBFM French Ham phone tests
REP	7100	06.28	25	05			J3E-U			WeFax LPM 120 / IOC 546
REP	7105	14.33	21	05	CHN		8k00 A3EGN			BC Radio Sounds of Hope
REP	7120	19.37	14	05	SOM		8k00 A3EGN			BC station Radio Hargaysa
REP	7120	18.21	19	05			8k00 A3EGN			African musics - broadcasting station
REP	7166	18.11	05	05	F		A1A			French MIL CW training
REP	7166	06.43	29	05	UKR		A1A			5 letter groups messages at 23WPM CW (location is UTC + 2 Hours) Ukraine MIL

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REP	7196	22.52	24	05	RUS	S99H	A1A			MIL with 4NAZ
REP	10113	21.16	13	05			J3E-L			Unid language
REP	10115	21.09	19	05			A3E			Letters Station - 5 letters transmission
REP	10115	19.19	15	05			A3E			Number station - 5 figure groups
REP	10120	23.55	08	05			J3E-L			Family talking
REP	10133	17.00	17	05			FMCW			OTH radar
REP	10135	16.40	17	05			FMCW			OTH radar
REP	10135	22.27	05	05	B		J3E-U			Brazilians
REP	10140	20.05	02	05			FMCW			OTHR 20kHz wide
REP	14121	10.18	05	05	E		J3E-L			Spanish fishery – 2 male voices
REP	14153	01.50	13	05			FMCW			OTHR
REP	14175	13.31	06	05			J3E-U			Retransmission of Radio Rwanda drifting up the band
REP	14213	14.42	17	05			FMCW			OTHR 15kHz wide 50 cps
REP	14220	14.24	25	05			FMCW			OTHR 15kHz wide 50 cps S-9
REP	14245	20.46	15	05			FMCW			OTHR 50 cps wide
REP	14249	21.02	15	05	CHN		F3E			2 male fisherman sounds Chinese lang
REP	14295	18.10	13	05			A3E			Broadcasting - Carrier not vy stable, could be harmonic of another freq.
REP	14335	01.27	15	05	RUS		FSK			Digital tests – modem comms
REP	14350	05.40	25	05			FMCW			OTHR 50 cps coming into last channel of 20 meter amateur band down to 14340kHz
REP	21100	18.13	14	05	MRC		J3E-U			Fishermen
REP	21200	14.05	11	05			FMCW			OTH radar 25kHz
REP	21230	13.00	11	05			FMCW			OTH radar
REP	21438	13.15	06	05			A1A			Daily CW messages to RKZ
REP	21438	13.15	07	05			A1A			Daily CW messages to RKZ
REP	24965	21.35	14	05	B		J3E-L			Brazilian pirates
REP	24975	12.41	06	05	B		J3E-L			Brazilian pirates
REP	24975	18.01	12	05	B		J3E-L			Brazilian pirates
REP	28000	14.10	16	05			A3E			Usual CB Brazilian pirates up to 28315kHz
REP	28040	12.05	22	05			F1B	51	300	Enagal buoy
REP	28090	12.24	12	05			FMCW			OTH radar 50 cps
REP	28125	10.53	22	05	RUS		F3E			Russian taxis female dispatchers
REP	28190	18.12	18	05	IRN		FMCW			OTH radar
REP	28200	10.00	05	05	ALG		F3E			Male voices (maybe Algerian)
REP	28200	10.50	18	05			FMCW			OTH radar 20kHz wide
REP	28270	12.44	28	05	RUS		F3E			Russian intruders
REP	28285	12.58	07	05	RUS		F3E			YL taxi dispatcher DLY
REP	28305	14.24	06	05	B		A3E			CBs - Starting 28000 up to 28.305 Constant Piracy, truck drivers from Brazil. (CW portion unusable most of the times for ham operation. Beacon portion impossible to read at times)
REP	28375	13.00	28	05	RUS		F3E			YL taxi dispatcher DLY
REP	28570	13.44	18	05			FMCW			OTH radar 20kHz wide
REP	28590	13.43	16	05	CHN		F3E			Filipine / Chinese lang 2 male (boat engine noise), Fishery.
REP	28605	13.48	16	05			FMCW			OTHR 28 cps S-5 (QSB)
REP	29000	17.53	12	05	B		J3E-U			Brazilian pirates
REP	29125	11.05	10	05	RUS		F3E			Russian taxis
REP	29145	11.33	10	05	RUS		F3E			Russian taxis
REP	29590	11.59	25	05			FMCW			OTH radar 20kHz wide

## RSGB - Great Britain – G4BOH (Chris)

## SRAL – Finland – OH2BLU (Pekka)

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	REMARKS
SRAL	6999,0	0750	15.	5		UiMUX	PSK2	120	2600	
SRAL	7000,0	0830-1300	*	5		UiMUX	PSK2	120	2600	Days: 15. 20. 26.

Society	KHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	REMARKS
SRAL	7002,0	1715	7.	5		UiMUX	Stanag			
SRAL	7007,0	1035	17.	5		4WAQ	F1A			
SRAL	7008,0	0530-1930	*	5	RUS	UiPTR	F1B		250	Days: 6. 9. 16. 31.
SRAL	7009,0	0430-1930	22.-30.	5		UiMUX	PSK2	120	2600	
SRAL	7013,4	0110-1930	*	5		UiPTR	F1B/NON		400	Days: 19. 20. 21. 26. 27.
SRAL	7016,0	0400-1930	*	5	RUS	UiPTR	F1B		250	Days: 2. – 6. 31.
SRAL	7020,0	0645-1345	7. 31.	5		UiPTR	F1B		250	
SRAL	7035,0	1115-1400	22.	5		UiCarr	NON			
SRAL	7037,0	1630	23.	5		UiPTR	F1B		250	
SRAL	7038,7	h24	dly	5	RUS	D	A1A			Sevastopol
SRAL	7038,8	h24	*	5	RUS	P	A1A			Kaliningrad, days: 1.-10. 16. 17. 20.-22. 31.
SRAL	7038,9	h24	*	5	RUS	S	A1A			Severomorsk, days: 2. 3. 5. 7. 12. 15.-24. 26.-31.
SRAL	7039,0	h24	*	5	RUS	C	A1A			Moscow, days: 3. 4. 10. 12. 15. 22. 26. 27. 28.
SRAL	7047,0	0205-0625	23.	5		UiMUX	PSK2	120	2600	
SRAL	7056,0	0350	22.	5		UiCW	A1A			'QTC'
SRAL	7057,5	1130	3.	5		UiCW	A1A			MR 5F
SRAL	7062,0	1305	8.	5		UiMUX	PSK2	120	2600	
SRAL	7076,0	0935	20.	5		UiPTR	F1B		250	
SRAL	7078,0	0735	2.	5		UiMUX	PSK2	120	2600	
SRAL	7090,0	1800-0100	3. 5. 7.	5		UiMUX	PSK8			
SRAL	7111,0	1050	29.	5		UiPTR	F1B		250	
SRAL	7120,0	0330-0400	dly	4	SOM	R. Hargeisa	A3E			
SRAL	7120,0	1500-1900	dly	4	SOM	R. Hargeisa	A3E			
SRAL	7122,0	0950-1030	27.	5		UiPTR	F1B		200	
SRAL	7139,0	1530	5.	5		UiMUX	PSK2	120	2600	
SRAL	7144,0	0825-0900	3.	5		UiMUX	PSK2	120	2600	
SRAL	7144,0	1600-1620	4.	5		UiCW	A1A			dotter
SRAL	7150,0	0705	23.	5		UiPTR	F1B			
SRAL	7155,0	0430	1.	5		UiMUX	PSK2	120	2600	
SRAL	7161,0	0915	22.	5		879	A3E			Synth. Fem.
SRAL	7162,0	1045-1300/	1. 29.	5		UiPTR	F1B			
SRAL	7166,0	0430-0600	5. 6. 29.	5	F	UiCW	A1A			
SRAL	7166,0	1755-1930	5. 6. 29.	5	F	UiCW	A1A			
SRAL	7169,0	0655-0915	23.	5		UiPTR	F1B			
SRAL	7174,0	0150	22.	5		UiCW	A1A			MR 5L/5F
SRAL	7176,0	0425-0900	*	5		UiPTR	F1B			Days: 5. 6. 29.
SRAL	7178,0	1400-1610/	4.	5		UiMUX	PSK2	120	2600	
SRAL	7182,55	1755-0240	23.-24.	5		UiCarr	NON			
SRAL	7192,0	0930-1200	17.	5		UiMUX	PSK2	120	2600	
SRAL	7197,0	0200-0700	23.	5		UiMUX	PSK2	120	2600	
SRAL	7198,0	1325	12.	5		UiMUX	PSK2	120	2600	
SRAL	14108,0	0740-1120	19. 20.	5		UiCW	A1A			MR 5BL

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	REMARKS
SRAL	14110,0	0735-1025	20.	5		UiPTR	F1B		200	
SRAL	14116,0	0540-0645	9. 31.	5		UiPTR	F1B		250	
SRAL	14118,0	0510	19.	5		UiMUX	PSK2	120	2600	
SRAL	14141,0	0610-1330	*	5	RUS	UiPTR	F1B		200/500	Days: 6. 7. 11. 12. 16. 20.
SRAL	14160,0	0550-0755	11.	5	RUS	UiPTR	F1B		250	
SRAL	14186,0	0950	21.	5	RUS	UiPTR	F1B		500	
SRAL	14221,0	1900-0500	*	5	RUS	UiPTR	F1B		250	Days: 14. 15. 16. 19. 21. 22. 23. 31.
SRAL	14226,0	0830-0900	3.	5		UiPTR	F1B			
SRAL	14232,0	1340	19.	5		UiPTR	F1B		250	
SRAL	14240,0	0815-1155	6. 7.	5		UiMUX	PSK2	120	2600	
SRAL	14242,0	0610	12.	5	RUS	UiMUX	PSK2	120	2600	
SRAL	14253,0	0550-1415/	2. 5.	5	RUS	UiPTR	F1B		250	
SRAL	14263,0	0920	4.	5		UiPTR	F1B		250	
SRAL	14265,0	0805	4.	5		UiMUX	PSK2	120	2600	
SRAL	14295,2	h24	dly	5	TJK	R Tojikiston	A3E			3f 4765,07 kHz, Yangiyul TX
SRAL	14317,0	0615-1625/	20.-31.	5	RUS	UiCW	A1A			MR 5BL
SRAL	14335,0	0430-1905	*	5	RUS	UiMUX	PSK2	120	2600	Days: 15. 16. 18. 19. 20.
SRAL	14 MHz	0245-1930	*	5	RUS	29B6	FMCW			50Hz / 10 kHz, days: 2. 3. 6. 8. 11. 13.-16. 18.-23. 25.-29.
SRAL	18 MHz	0630-1820/	*	5	CYP / TUR	UiOTHR	FMCW			50Hz / 20 kHz, days: 5. 8. 15. 16. 24.-26. 29.
SRAL	18107,0	1045	3.	5		UiPTR	F1B		200	
SRAL	21 MHz	0530-1715	*	5	CYP / TUR	UiOTHR	FMCW			50Hz / 20 kHz, 5. 12. 16. 21. 30.
SRAL	21001,5	0630-1215	3.	5	RUS	UiVocod	F1B		140	Subcarr.
SRAL	21438,0	0730-1700	dly	5	RUS	RCV	A1A			procedures
SRAL	24 MHz	0630-1840/	*	5	CYP / TUR	UiOTHR	FMCW			Days: 2. 20. 26.
SRAL	28 MHz	0640-1200	*	5	IRN	UiOTHR	FMCW			307 & 870 Hz / 60 kHz, days: 1. 3. 5. 7. 9. 10. 12.
SRAL	28 MHz	0900-1630	3. 17.	5	CYP / TUR	UiOTHR	FMCW			25 & 50Hz / 20 kHz
SRAL	28 MHz	0705-1315	*	5	RUS	Taxi disp.	F3E			Days: 3. 17. 22. 13 reports

## USKA – Switzerland – HB9CET (Peter)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	7000.0	2233	01	05		D	A1A			Beacon D spurious of 7038.7 daily
USKA	7000.0	2306	02	05			N0N			long lasting carrier often
USKA	7000.0	1819	03	05			J3E-U			sounds like an SE-Asian language
USKA	7007.0	1741	26	05			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D
USKA	7008.0	0814	15	05			F1B	75	250	often
USKA	7009.0	1636	29	05			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D
USKA	7009.3	1757	26	05			A1A			stupid Jammer, dashes and dots only: useless and illegal!
USKA	7016.0	2305	02	05			F1B	50	250	often
USKA	7018.625	2247	07	05			N0N			Long lasting carrier, strong
USKA	7038.7	2233	01	05	UKR	D	A1A			Beacon D Sevastopol daily
USKA	7038.8	2230	02	05	RUS	P	A1A			Beacon P Kaliningrad daily
USKA	7038.9	2231	02	05	RUS	S	A1A			Beacon S Murmansk daily
USKA	7039.2	2237	02	05	RUS	F	A1A			Beacon F Vladivostok daily



SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	7039.4	2238	02	05	RUS	M	A1A			Beacon M Magadan daily
USKA	7070.0	2328	05	05			MFSK8	125	1750	MIL 188-141A, followed by conversation in USB
USKA	7070.0	2330	05	05			J3E-U			unident language
USKA	7070.0	2343	05	05		810207	MFSK8	125	1750	MIL 188-141A
USKA	7070.0	2347	05	05		810210	MFSK8	125	1750	MIL 188-141A
USKA	7089.8	2301	02	05			G1D	2400	2k4	PSK-8: Link 11- SLEW often
USKA	7089.8	2246	07	05			G1D	2400	2k4	PSK-8: Link 11- SLEW; new with a Pilotton
USKA	7114.0	0454	19	05					2k6	CIS12 idling: 12 carrier's 200Hz spacing + Pilottone at 3300Hz
USKA	7120.0	1639	31	05	SOM		A3E			BC: Radio Hargaysa daily
USKA	7125.0	2144	03	05			B7D	75	5k83	LINK 11 CLEW 75Bd DQPSK DSB mode; DNCS IWM and IM
USKA	7158.0	1521	15	05			PSK8	2400	2k4	MIL 188-110A
USKA	7166.04	2353	05	05			A1A	24 wpm		Letters and figures in groups of 5
USKA	7170.0	2241	01	05			J7D	12x120	2k6	PSK-2: CIS12 = AT3004 often
USKA	7197.0	2155	03	05		3231	MFSK8	125	1750	MIL 188-141A
USKA	7197.0	2158	03	05		8191	MFSK8	125	1750	MIL 188-141A
USKA	7197.0	2200	03	05		3091	MFSK8	125	1750	MIL 188-141A
USKA	7197.0	2201	03	05		8491	MFSK8	125	1750	MIL 188-141A
USKA	7197.0	2203	03	05		3511	MFSK8	125	1750	MIL 188-141A
USKA	7200.0	2308	02	05			A3E		±10k	BC, interfering 40m band daily
USKA	14026.0	0833	28	05			J7D	12x120	2k6	PSK-2: CIS12 = AT3004
USKA	14099.0	1211	02	05			FMCW	50 sps	~10k	OTHR
USKA	14108.0	0820	16	05		3QZD	A1A			letters and figures often
USKA	14112.0	1535	04	05			FMCW	50 sps	~10k	OTHR
USKA	14113.0	1914	18	05			FMCW	50 sps	~10k	OTHR splatter > 20k
USKA	14118.0	0501	19	05			J7D	12x120	2k6	PSK-2: CIS12 = AT3004
USKA	14128.0	0930	14	05			FMCW	50 sps	~10k	OTHR splatter >20k
USKA	14140.0	1238	02	05			FMCW	50 sps	~10k	OTHR splatter >20k
USKA	14141.0	2203	01	05			F1B	75	500	almost daily
USKA	14155.0	2207	01	05			FMCW	47 sps	10k	OTHR, burst system, various BD
USKA	14156.0 VFO LSB	2257	14	05			OFDM 30 BPSK	60	~2k4	Burst system; spacing 75Hz preamble 4x PSK4 60Bd, spacing 600Hz; Pilottone at 450Hz
USKA	14192.0	1618	01	05			F1B	50	200	CIS 50-50 almost daily
USKA	14211.0	0722	12	05			FMCW	50 sps	~10k	OTHR
USKA	14221.0	2231	08	05			F1B	50	200	daily
USKA	14224.0	0801	12	05			FMCW	50 sps	~10k	OTHR
USKA	14228.0 VFO LSB	0521	19	05			OFDM 30 BPSK	60	~2k4	Burst system; spacing 75Hz preamble 4x PSK4 60Bd, spacing 600Hz; Pilottone at 450Hz
USKA	14240.0	1535	02	05			FMCW	50 sps	~10k	OTHR
USKA	14245.0	1443	04	05			FMCW	50 sps	~10k	OTHR
USKA	14246.0	1905	15	05			FMCW	50 sps	~10k	OTHR
USKA	14262.0	1124	15	05			FMCW	50 sps	~10k	OTHR
USKA	14265.0	0811	04	05			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D
USKA	14270.0	2149	11	05			FMCW	66.66 sps	10k	OTHR BD 3.5s BRI ~41s
USKA	14291.8	2144	11	05			PSK8		2k4	MIL 1800Hz singeltone system
USKA	14295.14	2339	10	05	TJK		A3E			BC: 3 <sup>rd</sup> of Radio Tajik at 4765 kHz
USKA	14320.0	2249	01	05			FMCW	66.66 sps	10k	OTHR BD 3.9s BRI ~43s
USKA	14329.0	2231	16	05			FMCW	66.66 sps	10k	OTHR BD 3.9s BRI ~43s
USKA	14333.0	1831	15	05			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D often
USKA	14344.65	2215	01	05			PSK-8	2400	2k4	MIL 188-110A, variant burst system, short intro ton Frame format 600 bps/short daily
USKA	18080.0	0642	08	05			A3E			Sound of Hope + Firedrake
USKA	18100.0	0650	19	05			FMCW	50 sps	20k	OTHR
USKA	18100.8	0830	16	05			PSK8	2400	2k4	MIL 1800Hz singeltone system
USKA	18107.0	1228	02	05			F1B	36	200	CIS36-50 almost daily
USKA	18107.0	1230	02	05			F1B	50	200	CIS36-50 almost daily
USKA	18107.0	1456	04	05		RDL	F1A		200	long CW transmission. Letters and figures
USKA	18150.0	0645	13	05			F1B	100	1k	harmonic of 9075 (500Hz shift)
USKA	21001.5	1009	03	05			F1B	100	150	Vocoder Yakhta daily
USKA	21018.45	1436	28	05			F1B	600	600	
USKA	21145.0	1124	18	05		C4	MFSK8	125	1750	MIL 188-141A often

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	21145.0	1210	18	05		C3	MFSK8	125	1750	MIL 188-141A To: R4 often
USKA	21246.0	0917	16	05			F1B	50	400	harmonic of 10623 (200Hz shift)
USKA	21318.45	0905	05	05			F1B	600	600	ARQ system often
USKA	21362.0	0728	09	05			FMCW	47 sps	10k	Burst system BD ~5.4s, BRI ~35s
USKA	21405.0	2011	17	05			A3E			weak; voice and music; IM?
USKA	21409.5	0629	22	05			F1B	100	2k	harmonic of 10704.8 often
USKA	21438.0	1025	18	05		RCV	A1A			letters and figures daily
USKA	21448.14	1406	28	05			F1B	600	600	
USKA	28600.0	1003	07	05			FMCW	various	≥ 50k	OTHR Burst system often

## Veron 1 – Netherlands – PA2GRU (Dick)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SHIFT	DETAILS
VERON	3664,0	18.44	6	5	F	CSTEI	A1A		5BL Training Centre Vernon/6853 KHz
VERON	3664,0	18.36	12	5	F	CSTEI	A1A		QZKHR FBHBR UMLAJ loc.Vernon
VERON	3766,5	21.21	16	5	RUS	UiMux	MPSK	2k6	
VERON	3766,5	21.21	16	5	RUS	UiMux	MPSK	2k6	
VERON	7038,7	vt	vd	5	UKR	D	A1A		Beacon Sevastopol
VERON	7038,8	18.37	17	5	RUS	P	A1A		Beacon Kaliningrad
VERON	7038,8	18.37	17	5	RUS	P	A1A		Beacon Kaliningrad
VERON	7038,9	vt	vd	5	RUS	S	A1A		Beacon Severomorsk
VERON	7038,9	vt	vd	5	RUS	S	A1A		Beacon Severomorsk
VERON	7055,0	09.53	1	5	Germany	UiILL	J3e-U		female, German language
VERON	7070,0	17.33	10	5	GEO	UiMux	FSK8	1k8	
VERON	7090,0	18.32	7	5		SL0FRO	A1A		5BL call sign not in qrz.com
VERON	7120,0	18.33	17	5	SOM	R.Hargaysa	A3E		s7; male speech
VERON	7153,0	19.20	10	5					Frequency hopper
VERON	7166,0	17.56	5	5	F	CSTEI	A1A		5BL Training Centre Vernon/8618 KHz
VERON	7166,0	17.25	5	5	?	?	A1A		NR 15 M 0519:25:39 2014 BT (5L) (not 5BL)
VERON	7196,0	13.51	1	5	?	S99H	A1A		4NAS DE S996 proc
VERON	7197,0	21.56	16	5					Frequency hopper
VERON	10108,0	13.41	28	5		UiCW	F1A		UUU XXX (followed by: F1B Revs/Ptr)
VERON	10108,0	13.53	28	5	RUS	RDL	F1A		UUU RDL 84350 54260 k
VERON	10118,0	17.12	26	5		UiPTR	F1B		Ptr
VERON	10143,0	17.13	26	5		UiPTR	F1B		Ptr
VERON	14008,0	08.49	18	5	RUS	UiPtr	F1B	250	Ptr
VERON	14018,0	14.06	7	5					Frequency hopper
VERON	14029,5	11.49	13	5		UiPTR	F1B		Revs
VERON	14108,0	06.11	21	5	CIS	9YZZ	A1A		S5AY DE 9YZZ proc
VERON	14108,0	06.12	21	5	CIS	9YZZ	A1A		QF2I DE 9YZZ proc
VERON	14108,0	06.13	21	5	CIS	9YZZ	A1A		8YKK DE 9YZZ proc
VERON	14108,0	05.55	30	5	CIS	9YZZ	A1A		proc to same group as on may 21
VERON	14108,0	05.55	30	5	CIS	9YZZ	A1A		(At same time "amateurs" trying to move
VERON	14108,0	05.55	30	5	CIS	9YZZ	A1A		9YZZ from the freq. BAD practice. This
VERON	14108,0	05.55	30	5	CIS	9YZZ	A1A		never works here)
VERON	14108,0	08.30	13	5	CIS	GPOH	A1A		HHWM de GPOH QBE QYT6 k
VERON	14108,0	11.44	13	5	CIS	GPOH	A1A		ZCWB de GPOH QYT9 k
VERON	14108,0	09.35	26	5	CIS	9YZZ	A1A		Calls (to: 8J2F GCK8 TFOV S5AY)
VERON	14108,0	09.38	26	5	CIS	9YZZ	A1A		Calls (to: QF2I 8YKK P6DO)
VERON	14127,0	09.25	14	5	RUS	OTHR	FMCW		radar, 0655-0925 utc on/off harmful
VERON	14141,0	09.44	6	5	RUS	UiPtr	F1B	500	Ptr Moscow, also 7/5
VERON	14141,0	11.10	7	5		UiPTR	F1B		Ptr
VERON	14151,5	11.45	13	5		UiPTR	F1B		Revs

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SHIFT	DETAILS
VERON	14210,0	14.45	17	5		OTHR	FMCW	15k	50sps
VERON	14221,0	19.27	17	5	KGZ	UiPtr	F1B	200	Idling
VERON	14253,0	13.20	2	5		UiPTR	F1B		Ptr
VERON	14292,0	11.23	20	5	CIS	5GS8	A1A		IBY6 QTC ar
VERON	14292,0	11.24	20	5	CIS	5GS8	A1A		355 38 20 1520 355 = ZPE 072 = 5BL
VERON	14292,0	11.34	20	5	CIS	5GS8	A1A		IBY6 QTC ar
VERON	14292,0	11.35	20	5	CIS	5GS8	A1A		347 10 20 1530 347 = ZIP 072 = 5BL
VERON	18101,0	14.33	24	5		UiILL	J3e-U		Unknowm (African?) language, male
VERON	21099,8	13.33	29	5		UiCAR	A1A		Carrier, very strong and long time.
VERON	21201,0	09.53	18	5	Maroc	UiILL	J3e-U		Maroc fishery
VERON	21319,0	13.10	13	5		UiPtr	F1A	500	Dots
VERON	21438,0	07.14	1	5	RUS	RCV	A1A		RFH70 DE RCV OK QYT4 QWH 10984 K
VERON	21438,0	07.17	1	5	RUS	RCV	A1A		RFH70 DE RCV QYT4 QSX 8310 K
VERON	21438,0	08.10	2	5	RUS	RCV	A1A		RCIV de RCV QSA2 QRV k
VERON	21438,0	08.12	2	5	RUS	RCV	A1A		RCV nr 493 rpt aa 1 k - QSL 493 k
VERON	21438,0	08.14	2	5	RUS	RCV	A1A		RGR35 de RCV QYT4 QSX 12530 k
VERON	21438,0	08.20	14	5	RUS	RCV	A1A		RIP90 de RCV QTC 399 Nawip 033 1054
VERON	21438,0	08.33	14	5	RUS	RCV	A1A		RGX94 de RCV QTC 880 Nawip 037 1045
VERON	21438,0	11.29	20	5	RUS	RCV	A1A		RCV QTC 357 Prognoz Pogody
VERON	21438,0	11.39	20	5	RUS	RCV	A1A		RFH70 de RCV as 1 k
VERON	21438,0	08.13	21	5	RUS	RCV	A1A		RIP90 de RCV QTC 411 Nawip 032 118

# The monitoring team of IARU Region 1

credits:

**Wavecom Elektronik – Buelach – Switzerland**

**German PTT (BNetzA = Federal Network Agency)**

**Many thanks for your interest!**

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