



International Amateur Radio Union

Region 1



# Monitoring System

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The monthly newsletter for Region 1

## October 2016

The 30 members of the IARUMS Region 1 Monitoring Team:



## Acknowledgements

ARAT: 3V8CB – Ahmed ++ ARI: DH7SA – Salvatore ++ ARSK: 5Z4NU - Ted ++ ASTRA: DL1BDF – Mustapha ++ DARC: DK2OM – Wolf ++ EARS: A61DJ – 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), BNetzA Konstanz (Germany) ++ OFCOM (UK) ++ Dutch AT

Part 1: News and infos

Part 2: Detailed reports of the national co-ordinators

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# Part 1: News and Infos

## 1. Radio Eritrea on 7185 MHz

Radio Eritrea appeared on 7185 kHz together with white noise from Ethiopia. The German PTT filed 2 official complaints. 7146.5 and 7175 kHz were still in use, too.

## 2. Russian Navy Sevastopol on 14180 kHz – good news

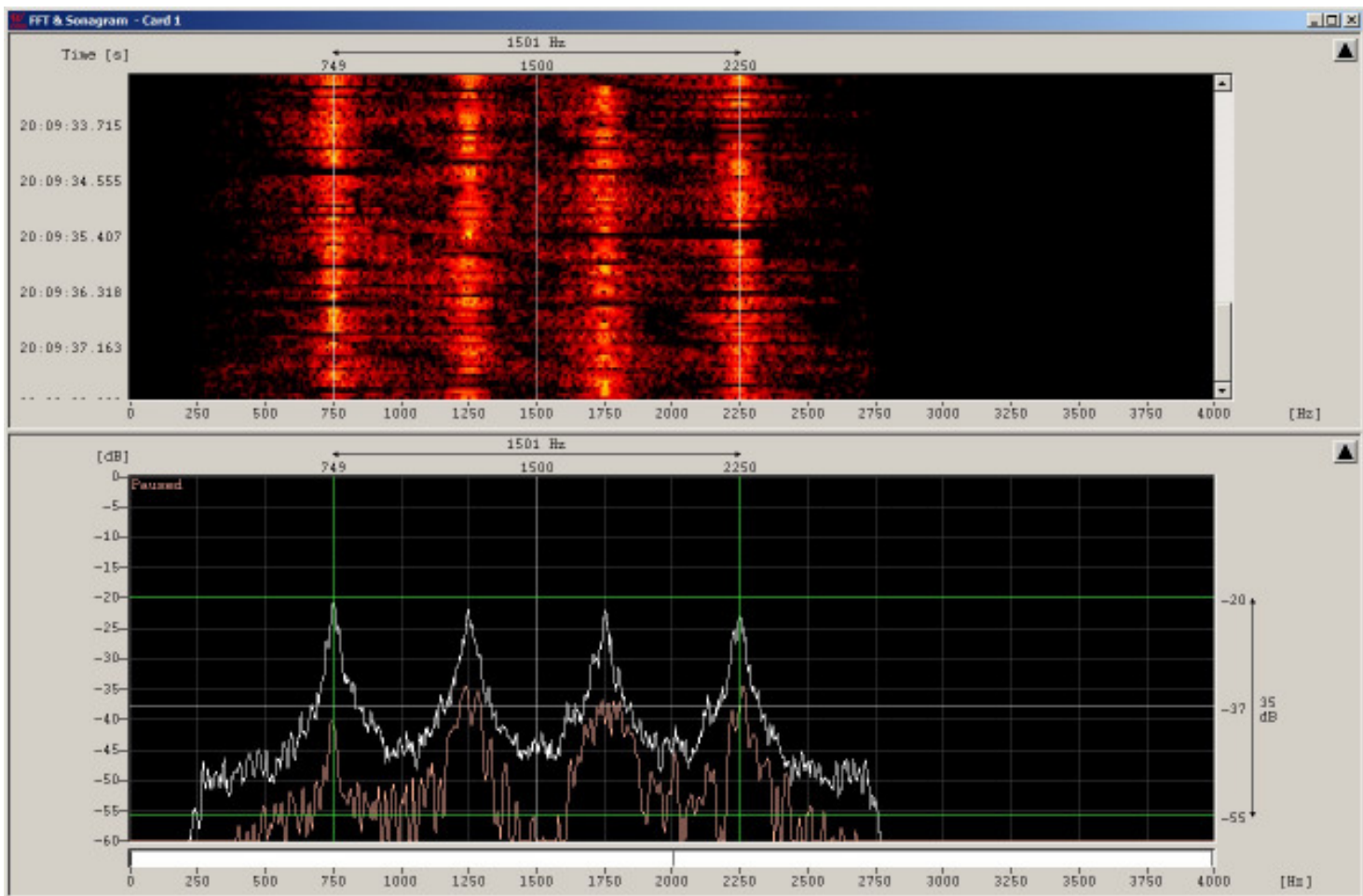
The Russian Navy (ident "RDL") was transmitting on 14180 kHz on F1B with 50 Bd and 200 Hz shift for several days. Location: Sevastopol – Crimea --- The German PTT filed an official complaint. On Oct. 31<sup>st</sup> the transmissions were found the last time. Many thanks to the German PTT in Konstanz.

## 3. Russian Radar Contayner on 7 and 14 MHz – no change

The Russian radar Contayner was again active with long lasting transmissions on 7 and 14 MHz, often with many spurious emissions. **The same radar disturbed the WAG-Contest on 7178 kHz on Oct. 15<sup>th</sup>.**

## 4. Russian FSK4 on 80 m (shared band!)

We observed a Russian FSK4 system on 3530 kHz on Oct. 13<sup>th</sup> at 2009 UTC. Location: Syktyvkar. Parameters: 100 Bd and 1500 Hz shift. This system is not common on our bands. Observe: 80 m is a shared band! Screenshot: DK2OM with Wavecom W-Code



## 5. Stupid actions by a German HAM

A German HAM tried again to chase away Russian MIL FSK traffic on 80 and 40 m by transmitting dashes on the mark or space frequency. Such actions are illegal! But we know his location: Area of Magdeburg The German PTT was informed.

## 6. Illegal actions by Stanag-4285 on 7 MHz

Someone hunted and disturbed German contest stations on Oct. 29<sup>th</sup> by transmitting empty Stanag-4285 transmissions on LSB and DSB. Location: Southern part of Nuernberg, Germany.

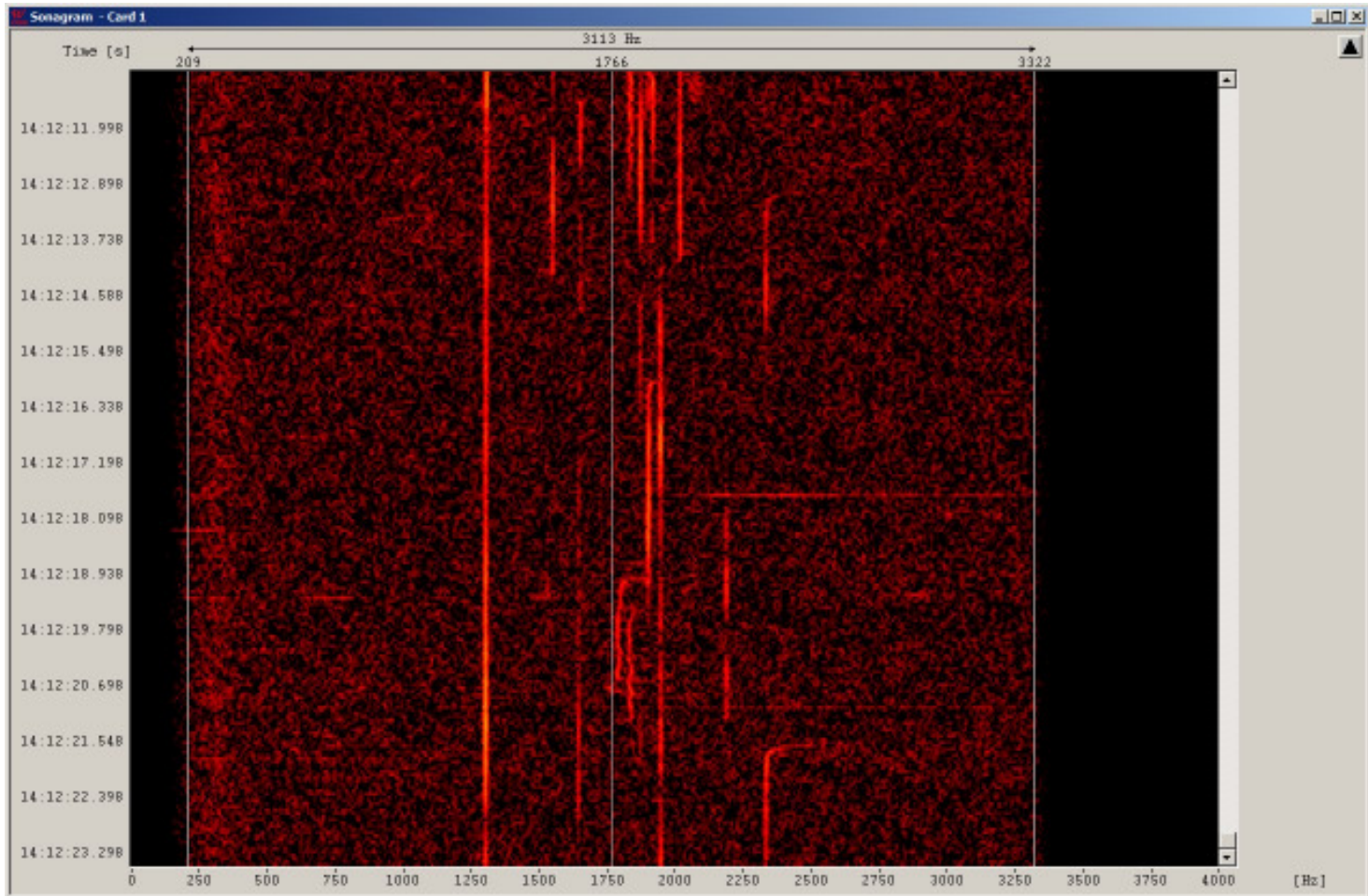
## 7. Radar Iran on 28960 kHz - no change

The Iranian radar was daily transmitting 28960 kHz on FMOP with 150 and 313 sps covering about 50 kHz with many spurious emissions. The radar was active every day, no change.

## 8. Brazilian CBers still on 10 m – no change

Due to strong F2 ionospheric layers we observed again many Brazilian CBers with illegal AM-traffic on 28000 - 28325 kHz. The screenshot shows the situation on 28305 kHz, a very popular CB-QRG in Brazil.

**Screenshot: DK2OM with Wavcom W-Code on Oct. 13<sup>th</sup> Each CB station is producing a carrier.**



## 9. Spanish fishery on 10125 kHz

Spanish was found several times on 10125 kHz on USB

## 10. No changes or bad news

3590.0 kHz – USB – Spanish fishery with voice scrambler “CRY 2001” often in the evenings

6998.0 kHz - Russian buzzer – daily and all day

7120.0 kHz – Radio Hargaysa Somalia

7146.5 kHz – Radio Eritrea with Ethiopian QRM

7175.0 kHz - Radio Eritrea with Ethiopian QRM

7185.0 kHz – Radio Eritrea with Ethiopian QRM

7200.0 kHz – Radio Myanma

14295.0 kHz - Radio Tajik (harmonic from 4765 kHz)

## 11. Homepage IARU Region 1

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

### Homepage IARUMS Region 1

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

### Homepage IARUMS Region 2

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

### Homepage IARUMS Region 3

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

### Intruderlogger Region 1

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

### ITU-Monitoring Reports

<http://www.itu.int/en/ITU-R/terrestrial/monitoring/Pages/Regular.aspx>

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

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

### ARSK MONITORING OVERVIEW FOR OCTOBER 2016

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

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

#### ARSK – Kenya – 5Z4NU (Ted)

N.A.

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

DG0JBJ (Mario) observed **11** OTH radars on 40 m, **20** OTH radars on 20 m, **67** OTH radars on 17m, **79** OTH radar on 15 m and **12** OTH radar on 10 m in October 2016.

#### DARC 2 – Germany - DK2OM (Wolf)

**FSK transmissions -> center frequency between mark and space**

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

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

**SH = shift - SP = spread (radar) – SPS = sweeps/sec (radar)-> (aka PRF)**

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	1812,0	2130	26	10	RUS		USB LSB			14 tones – hyperbolic radio navigation system – BRAS-3/RS-10 – Kaliningrad – no carrier - daily, all day
DK2OM	1852,0	2050	03	10	I	IPP	USB			Palermo Radio, weather reports
DK2OM	1855,0	2050	03	10	I	IQP	USB			San Benedetto Radio, weather reports
DK2OM	1876,0	2051	03	10	I	IQN	USB			Lampedusa Radio, weather reports
DK2OM	1888,0	2051	03	10	I	IPD	USB			Civitavecchia Radio, weather reports
DK2OM	1896,5	2020	06	10	D		PSK8	2400	2400	Stanag4285 – 600 bps long – German Navy – daily, all day
DK2OM	1925,0	1831	17	10	I	IPL	USB			Livorno Radio, weather reports
DK2OM	3500,0	vt	dly	10	TUR		FSK8	125	1750	ALE, “2016” “4017” – Turkish Red Crescent – just for info!
DK2OM	3500,0	1929	02	10	G		USB			UK fishermen
DK2OM	3500,0	1929	20	10			FSK8	125	1750	ALE, “4444” “5555”
DK2OM	3500,5	1934	09	10	RUS		F1B	75	200	Moscow
DK2OM	3501,7	1930	04	10	CHN		OFDM	44.44	2200	PRC 39 – PSK4B
DK2OM	<b>3502,0</b>	<b>1927</b>	<b>02</b>	<b>10</b>	<b>CIS</b>		<b>A3E</b>			<b>CIS – pirates – unstable carrier</b>
DK2OM	3503,5	vt	dly	10	G	no ITU	FSK8	125	1750	ALE – “XSS” “XPU” “XJR” – British MIL Tascomm – vt, daily - legal!
DK2OM	3522,0	2050	22	10	RUS		PSK2A	120	2600	AT3004D - Crimea
DK2OM	3524,0	1900	10	10	RUS		F1B	75	250	Nizhny Novgorod
DK2OM	3525,0	1844	02	10	F		PSK4	75	5800	LINK11-CLEW on both

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										sidebands (5800 Hz wide) – area of Marseille – legal!
DK2OM	3527,0	2100	08	10	RUS		F1B	50	200	Severomorsk
DK2OM	3530,0	2207	13	10	RUS		FSK4 FSK2	100 100	1500 1000	Syktyvkar
DK2OM	3531,0	---	--	10	RUS	REA4	N0N			unclean carrier - RUS airforce Moscow, ident: 1940 utc - daily
DK2OM	3532,0	---	--	10	F		PSK4	75	5800	LINK11-CLEW on both sidebands (5800 Hz wide) – area of Brest – legal!
DK2OM	<b>3535,0</b>	<b>vt</b>	<b>dly</b>	<b>10</b>	<b>G</b>		<b>USB</b>			<b>fishermen – north-east coast of Scotland – every evening</b>
DK2OM	<b>3535,0</b>	<b>2103</b>	<b>28</b>	<b>10</b>	<b>E</b>		<b>USB</b>			<b>Spanish fishery</b>
DK2OM	3541,0	1912	11	10	RUS		F1B	75	150	Moscow
DK2OM	3542,0	1745	27	10	RUS		PSK4B	120	2600	AT3104D – Kaliningrad
DK2OM	3542,0	1829	02	10	FEa	HDNA	A1A			loop – “HDNA”
DK2OM	3548,0	1702	17	10	RUS		F1B	50	200	Kaliningrad - disturbed by a German amateur with CW-dashes on the mark QRG (area of Magdeburg)
DK2OM	3548,0	2103	08	10	RUS		F1B	50	200	Vladimir
DK2OM	<b>3550,0</b>	<b>vt</b>	<b>dly</b>	<b>10</b>	<b>F</b>		<b>A3E</b>			<b>French amateurs not respecting bandplans - daily</b>
DK2OM	3550,0	vt	vd	10	ALG	no ITU	FSK8	125	1750	ALE, “IU50” “IU52” “FN50”
DK2OM	3550,0	1722	11	10	RUS		PSK2	120	2600	AT3004D – submode idle - Sevastopol
DK2OM	3552,0	1732	11	10	RUS		F1B	50	200	Kaliningrad - disturbed by a German amateur with CW-dashes on the space QRG (area of Magdeburg)
DK2OM	3553,8	ady	dly	10	TUR		PSK8	2400	2400	Stanag4285 – 600 bps long - TUR MIL - Ankara – daily, all day - legal operation
DK2OM	3555,0	1920	19	10			USB			male persons in French voice
DK2OM	<b>3560,0</b>	<b>1930</b>	<b>20</b>	<b>10</b>	<b>E</b>		<b>USB</b>			<b>Spanish fishery</b>
DK2OM	3568,0	1925	08	10	RUS		F1B	50	250	Kaliningrad
DK2OM	3576,6	ady	dly	10	I	IZ3DVW	A1A			3576.550 - uncoordinated beacon – disturbing JT65
DK2OM	3585,0	1324	01	10	TWN	HLL	F1C		800	WX-fax Taiwan - 120 rpm, IOC 576, - daily, all day - legal!
DK2OM	3586,0	1800	dly	10	G		PSK2A	40	40	encrypted – every evening Great Britain – purpose unknown
DK2OM	3586,0	0936	09	10	RUS		F1B	75	250	St. Peterburg
DK2OM	3587,0	vt	vd	10	E	no ITU	FSK8	125	1750	ALE, “TVV” “TXX” - Spanish Guardia Civil
DK2OM	3587,0	1848	22	10	UKR		PSK2A	120	2600	AT3004D - Odessa
DK2OM	3590,0	vt	dly	10	PAK	no ITU	FSK8	125	1750	ALE, “KW” “KHAIBAR” – Pakistan navy
DK2OM	<b>3590,0</b>	<b>0805</b>	<b>02</b>	<b>10</b>	<b>E</b>		<b>USB</b>			<b>Spanish fishery</b>
DK2OM	3590,0	1820	03	10	MLT		PSK4A	75	5800	LINK11-CLEW on both sidebands (5800 Hz wide) – ship - east of Malta – legal!
DK2OM	3593,7	---	--	10	RUS	D	A1A			Cluster beacon – Sevastopol RUS Navy – “RCV”
DK2OM	3593,8	---	--	10	RUS	P	A1A			Cluster beacon – Kaliningrad RUS Navy – “RMP”
DK2OM	3593,9	---	--	10	RUS	S	A1A			Cluster beacon – Severomorsk RUS Navy – „RIT“
DK2OM	3594,0	---	--	10	RUS	C	A1A			Cluster beacon C - Moscow RUS Navy - “RIW”
DK2OM	3595,0	---	--	10	RUS	K	A1A			Cluster beacon - Petropavlovsk Kamchatskiy - RUS Navy - Pacific fleet - “RCC”
DK2OM	3596,0	vt	dly	10	D		FSK8	125	1750	ALE, “DK0ESD” – just for

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										info!
DK2OM	3596,0	vt	dly	10	J		FSK8	125	1750	ALE, "JH1ESB" – just for info!
DK2OM	3597,0	1822	02	10	CHN		PSK4A	60	2350	PRC 30 tone modem - USB mode - pilot tone 450 Hz - daily
DK2OM	3600,0	1921	13	10	RUS		FSK4 FSK2	100 100	1500 500	Vladimir
DK2OM	3605,0	1845	13	10	RUS		F1B	50	500	North Caucasus
DK2OM	3605,8	1954	02	10	I		PSK4A	75	2300	LINK11 – CLEW – Northern Italy
DK2OM	3607,0	1856	03	10	CHN		FSK8	125	1750	ALE, "145"
DK2OM	3617,0	vt	dly	10	HRV	9A5EX	FSK8	125	1750	ALE, "9A5EX" – HAM-ALE - just for info
DK2OM	3622,5	1322	01	10	J	JMH	F1C		800	Tokyo Meteo – 120 rpm – IOC 576 – daily, all day - legal!!!
DK2OM	3625,0	1333	14	10	CHN		FMOP		55k	Chinese OTH radar – 43 sps-3625 – 3680 kHz via JA
DK2OM	3640,0	vt	dly	10	G		FSK8	125	1750	ALE, "XSS" - British MIL Tascomm – just for info!
DK2OM	3640,0	1817	07	10	RUS		F1B	75	250	Smolensk
DK2OM	3642,0	ady	dly	10	CHN		A1A			loop – DKG6 de 3A7D Chinese military – daily, all day
DK2OM	3647,0	1325	01	10	CHN		FMOP		45k	Chinese OTH radar - 43 sps - 3647 – 3692 kHz
DK2OM	3649,0	vt	vd	10	ALG	no ITU	FSK8	125	1750	ALE, "BI20" PA20"
DK2OM	3658,0	---	--	10	UZB		A1A			beacon "V" - Tashkent
DK2OM	3718,0	vt	vd	10	FEa	7CJK	A1A			loop "7CJK"
DK2OM	3720,0	vt	dly	10	S		FSK8	125	1750	ALE, "YU" "YT" "YV" "DZ" – Swedish MIL
DK2OM	3736,2	1850	13	10	G		F1B	100	170	Codan selcal - idents: 3725 – 9894 – NE of London
DK2OM	3751,5	vt	dly	10	POL	no ITU	FSK8	125	1750	ALE, "IZ3" "MI3"
DK2OM	3755,0	1912	13	10			F1B	100	500	F1B – burst system -
DK2OM	3756,0	1720	11	10	RUS		A3E			RUS MIL – channel marker – Tuapse – East Black Sea – night QRG – daily – even audible in Japan
DK2OM	3757,0	ady	dly	10	FEa	RIS9	A1A			"M8JF de RIS9" - loop
DK2OM	3761,5	vt	vd	10	POL	no ITU	FSK8	125	1750	ALE, "NI9" "PL7" "AB2" – Polish MIL
DK2OM	3772,0	ady	dly	10	FEa	A4JC	A1A			"A4JC" - loop
DK2OM	3777,0	1826	02	10	FEa		A1A			"M8JF de RIS9" – loop – dly
DK2OM	3785,0	1705	14	10	UKR		PSK2A	120	2600	AT3004D - Kyiv
DK2OM	3791,0	vt	vd	10	D	DK0ESD	FSK8	125	1750	ALE, "DK0ESD" – daily just for info!
DK2OM	3797,0	ady	dly	10	FEa		A1A			"M8JF de RIS9" – loop
DK2OM	6998,5	---	--	10	POL		PSK8	2400	2400	MIL-188-110A – until 7001.500 kHz – Polish MIL
DK2OM	7000,0	1520	10	10	INS		USB LSB			Indonesian pirates – daily – all day - audible in Europe in the evenings
DK2OM	7000,0	ady	dly	10	RUS		H3E		3.4 k	<b>buzzer – 1 sec bursts - 118 Hz AF rough sinus – carrier on 6998.0 + upper sideband - with splatters 10 kHz wide – daily, all day - Moscow</b>
DK2OM	7000,0	0715	28	10	RUS		PSK2A	120	2600	AT3004D – many spurious emissions and harmonics on 14000.0 kHz - Moscow
DK2OM	7001,5	---	--	10	POL		PSK8	2400	2400	RF QRG 6998.5 kHz – 7000.3 kHz center - MIL-188-110A – 600 / 300 bps short – Polish MIL
DK2OM	7001,8	1503	06	10	I		PSK8A	2400	2400	MIL-188-110A – 600 bps/short - Venice
DK2OM	7001,8	1545	07	10	EGY		PSK8A	2400	2400	MIL-188-110A – 1200 bps/long Suez Canal - ship
DK2OM	7005,0	1525	10	10	INS		USB			Indonesian pirates

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
							LSB			
DK2OM	7010,0	vt	dly	10	INS		USB LSB			Indonesian and Philippine pirates
DK2OM	7015,0	1525	10	10	INS		USB LSB			Indonesian pirates
DK2OM	7018,0	---	--	10	RUS	REA4	F1B	100	800	mostly idling – Russian airforce Moscow – ident at full hour + 41 min. on F1A
DK2OM	7019,0	1820	02	10	CHN		PSK4A	60	2350	PRC 30 tone modem - LSB mode - pilot tone 450 Hz – daily – all day
DK2OM	7020,0	1526	10	10	INS		USB LSB			Indonesian pirates
DK2OM	7020,0	---	--	10	ALB		FSK8	125	1750	ALE, “CS004A” “RS008D” “RS0” – Albanian coast - daily
DK2OM	7020,0	1900	06	10	RUS		F1B	75	250	Moscow
DK2OM	7025,0	vt	dly	10	INS		USB LSB			Indonesian pirates
DK2OM	7027,5	---	--	10	UKR	„V“	A1A			beacon “V” – Kyiv
DK2OM	7028,0	1755	03	10	RUS		FMCW		13k	OTH radar Contayner - 50 sps – Gorodezh
DK2OM	7030,0	1527	10	10	INS		LSB			Indonesian pirates
DK2OM	7034,0	1916	23	10	RUS		FMCW		13k	OTH radar Contayner - 50 sps – Gorodezh
DK2OM	7035,0	1524	10	10	INS		USB LSB			Indonesian pirates
DK2OM	7039,0	---	--	10	RUS	C	A1A			Cluster beacon C - Moscow RUS Navy - “RIW”
DK2OM	7039,1	---	--	10		A	A1A			beacon “A” - loop
DK2OM	7039,2	---	--	10	RUS	F	A1A			Cluster beacon F - Vladivostok RUS Navy - “RJS”
DK2OM	7039,3	1521	10	10	RUS	K	A1A			Cluster beacon K Petropavlovsk Kamchatskiy - RUS Navy - Pacific fleet - “RCC” - daily
DK2OM	7039,4	1320	01	10	RUS	M	A1A			Cluster beacon M – Magadan RUS Navy – „RTS“ – distorted with spurious emissions
DK2OM	7040,0	1527	10	10	INS		USB LSB			Indonesian pirates
DK2OM	7040,0	vt	dly	10	F	F6BAZ	FSK8	125	1750	ALE, “F6BAZ” – just for info
DK2OM	7040,0	ady	dly	10	I		A1A			<b>IZ3DVW – uncoordinated and unwanted beacon</b>
DK2OM	7040,5	vt	dly	10	HRV		FSK8	125	1750	ALE, “9A5EX” “9A0ALE” – just for info
DK2OM	7047,37	vt	vd	10	D		FSK8	125	1750	ALE, “DL0NOT” – just for info!
DK2OM	7049,5	vt	vd	10	HRV G F	9A0ALE M1DFO F6BAZ	FSK8	125	1750	Amateur ALE, just for info! daily – various times
DK2OM	7050,0	vt	dly	10	RUS UKR		LSB			<b>music transmissions – private war ?</b>
DK2OM	7055,0	0855	14	10	INS		LSB			Indonesian pirates
DK2OM	7055,5	vt	vd	10	MEa	no ITU	FSK8	125	1750	ALE, “111” “132” “133” - Caucasus
DK2OM	7056,0	0535	02	10	RUS		USB			female Russian voice spelling figures – Rostov na Donu
DK2OM	7061,0	1212	25	10			PSK2A	120	2600	AT3004D -
DK2OM	7064,0	1822	16	10	RUS		PSK2	120	2600	AT3004D – submode idle – Far-East Russia
DK2OM	7070,0	vt	vd	10	GEO	no ITU	FSK8	125	1750	ALE, “MV” “244” “686” “334” “204” “571” – daily active
DK2OM	7076,0	1243	18	10	RUS		F1B	75	250	Moscow
DK2OM	7088,8	vt	vd	10	S	SL0FRO	A1A			7088.830 kHz - cw-trainee, Sweden - SL0FRO - just for info!

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	7089,8	---	--	10	TUR CYP		PSK8	2400	2400	Link11 - SLEW – aircraft – west of Cyprus
DK2OM	7090,0	2022	18	10	RUS		FMCW		13k	OTH radar Contayner - 50 sps – Gorodezh
DK2OM	7091,5	157	19	10	KAZ	„V“	A1A			7091.543 kHz - loop with spurious – ident “V” – Almaty - Kazakhstan
DK2OM	7099,5	vt	dly	10	HRV	9A0ZG	FSK8	125	1750	ALE, “9A0ZG” “9A5EX1P” “9A0OS” – daily - just for info!
DK2OM	7102,0	vt	dly	10	TWN		FSK8	125	1750	ALE, “BV4AS” – just for info!
DK2OM	7102,0	vt	dly	10	HRV SUI D	9A0MIL	FSK8	125	1750	ALE, “9A0MIL” “9A2KS” “HB9MHB” “9A0ZG” “9A4OS” “DK0ESD” – just for info!
DK2OM	7110,0	vt	dly	10	HRV	9A0ALE	FSK8	125	1750	ALE, “9A0ALE” – just for info
DK2OM	7114,0	1659	05	10	RUS		PSK2A	120	2600	AT3004D - Moscow
DK2OM	7117,0	---	--	10	RUS	REA4	F1B	100	1000	mostly idling – Russian airforce Moscow – ident on CW at 1640 utc on the mark-QRG
DK2OM	7119,0	0922	15	10	RUS		PSK2	120	2600	AT3004D – submode idle - Far East Russia
DK2OM	<b>7120,0</b>	<b>1448</b>	<b>02</b>	<b>10</b>	<b>SOM</b>		<b>A3E</b>		<b>9k</b>	<b>Radio Hargaysa – Somalia – daily – even audible in Australia and Japan</b>
DK2OM	7122,0	1926	16	10	RUS		F1B	75	250	Moscow
DK2OM	7134,0	1833	02	10	RUS		F1B	50	200	Far-East Russia
DK2OM	7135,0	1613	03	10			FSK8	125	1750	ALE, “UDR” “YDM”
DK2OM	7137,0	vt	dly	10	TWN		FSK8 LSB	125	1750	ALE, “CBIUN” “CBWPC” “CQYTX” “CAPLJ” “CTFOJ” “CEGTO” “CSNYI” “CEIPN” “CRXWT” - Taiwanese navy – daily
DK2OM	7143,0	1745	05	10	RUS		PSK2A	120	2600	AT3004D – Machatchkala
DK2OM	<b>7146,5</b>	<b>1447</b>	<b>02</b>	<b>10</b>	<b>ERI</b>		<b>A3E/BC</b>		<b>9k</b>	<b>carrier on 7146.557 kHz - Radio Eritrea + ETH QRM - daily</b>
DK2OM	7162,0	0909	27	10	RUS		F1B	75	250	Moscow
DK2OM	<b>7163,0</b>	<b>---</b>	<b>--</b>	<b>10</b>	<b>UKR</b>		<b>A3E</b>			<b>encrypted MSGs - SZRU in Rivne</b>
DK2OM	7171,0	1323	31	10	RUS		PSK2A	120	2600	AT3004D - Moscow
DK2OM	<b>7175,0</b>	<b>1447</b>	<b>02</b>	<b>10</b>	<b>ERI ETH</b>		<b>A3E</b>		<b>9k</b>	<b>carrier on 7174.989 kHz Radio Eritrea disturbed by Radio Ethiopia with white noise emissions</b>
DK2OM	7176,0	1601	14	10	RUS		F1B	75	250	Moscow
DK2OM	7178,0	1940	15	10	RUS		FMCW		13k	OTH radar Contayner - 50 sps – Gorodezh
DK2OM	<b>7180,0</b>	<b>vt</b>	<b>29</b>	<b>10</b>	<b>D</b>		<b>PSK8A</b>	<b>2400</b>	<b>2400</b>	<b>7180 – 7200 kHz – Stanag - 4285 – German Amateur hunting and disturbing German contest stations with empty transmissions in LSB- and DSB-mode – southern part of Nuernberg</b>
DK2OM	7183,0	vt	dly	10	SUI		FSK8	125	1750	ALE, “HB9MHB” – just for info!
DK2OM	<b>7185,0</b>	<b>1620</b>	<b>14</b>	<b>10</b>	<b>ERI ETH</b>		<b>A3E</b>		<b>9k</b>	<b>carrier on 7184.989 kHz Radio Eritrea disturbed by Radio Ethiopia with white noise emissions</b>
DK2OM	7185,5	1520	19	10	D HRV		FSK8	125	1750	ALE, “9A5EX” “DK0ESD” just for info - daily
DK2OM	7186,5	1915	16	10	CHN		PSK4A	75	2250	RF 7185.0 kHz - PRC4+4 – traffic
DK2OM	7196,0	1230	16	10	D		PSK8A	2400	2400	Stanag-4285 – 600 bps/long - area of Nuernberg
DK2OM	7196,0	1615	20	10	RUS		PSK2	120	2600	AT3004D – submode idle -



DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										Severomorsk
DK2OM	7197,0	vt	dly	10	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	<b>7200,0</b>	<b>1430</b>	<b>06</b>	<b>10</b>	<b>MMR</b>		<b>A3E/BC</b>		<b>9k</b>	<b>Myanma Radio – 0900 – 1400 UTC - daily</b>
DK2OM	10100,8	ady	dly	10	D		F1B	50	450	Baudot - German Weatherservice – legal!
DK2OM	10110,0	vt	dly	10	SNG	no ITU	FSK8	125	1750	ALE, "CN6" "68" – Singapore Navy - Changi Naval Base
DK2OM	10112,0	0825	01	10	I		PSK8A	2400	2400	Stanag-4285 – 600 bps long – Rome - daily
DK2OM	10113,0	vt	vd	10	TUN	no ITU	FSK8	125	1750	ALE, "TUD" "STAT5" "STAT154"
DK2OM	10114,0	vt	dly	10	ALG	no ITU	FSK8	125	1750	ALE, "BSF" "ZEN" "CM2OR2"
DK2OM	10114,8	0752	18	10	RUS		F1B	100	1000	CIS14 – Moscow - daily
DK2OM	10115,0	vt	dly	10	MRC	no ITU	FSK8	125	1750	ALE, "100" "114" "201" "XXZ" – Western Sahara
DK2OM	10116,5	---	--	10	AFS		F7D	54.3	2120	MHF50 – 33 tones - South African navy
DK2OM	10120,0	vt	dly	10	ALG	no ITU	FSK8	125	1750	ALE, "CM6" "01012016"
DK2OM	10121,0	0926	20	10	RUS		F1B	75	250	Moscow - daily
DK2OM	10123,0	vt	dly	10	ALG	no ITU	FSK8	125	1750	ALE, "CM3" "COF" "BSF" "CM2" "ESA" – Algerian Airforce
DK2OM	10125,0	1030	11	10	UKR		PSK2A	120	2600	AT3004D - Odessa
DK2OM	10129,0	vt	dly	10	ALG	no ITU	FSK8	125	1750	ALE, "CM1" "CTF" "772"
DK2OM	10131,0	0750	19	10	RUS		F1B	75	250	Jekaterinburg
DK2OM	10131,0	1554	14	10	AUS		FMCW		10k	Australian OTH radar JORN – 23 sps – intro tones -10126 – 10136 kHz – 3.3 sec bursts
DK2OM	10132,0	vt	vd	10	F		USB			French amateurs not respecting bandplans
DK2OM	10136,0	vt	dly	10	ALG	no ITU	FSK8	125	1750	ALE, "CM3" "BLD" "CNC" "TF2"
DK2OM	<b>10144,0</b>	<b>ady</b>	<b>dly</b>	<b>10</b>	<b>D</b>	<b>DK0WCY</b>	<b>A1A</b>			<b>10144.000 kHz - DK0WCY – German aurora beacon – just for info!</b>
DK2OM	10145,5	vt	dly	10	SUI	HB9MHB	FSK8	125	1750	ALE, "HBMHB" - just for info - daily
DK2OM	10145,5	vt	vd	10	TWN AUS	BV4AS	FSK8	125	1750	ALE, "BV4AS" "VK4SAA" – just for info!
DK2OM	10153,0	1540	20	10	AUS		FMCW		10k	Australian OTH radar JORN – intro tones - 33 sps and 38 sps 3.7 sec bursts
DK2OM	13950,0	1250	20	10			FMCW		400k	Russian OTH radar Gorodezh – 50 sps – splatters covering the whole 20 m-band
DK2OM	14000,0	1612	20	10	FEa		USB			pirates from Java Sea - daily
DK2OM	14000,0	0950	10	10			NON			carrier – 13999.973 kHz
DK2OM	14006,0	0610	21	10	RUS		PSK2A	120	2600	AT3004D traffic - Moscow
DK2OM	14008,0	0950	05	10	RUS		F1B	50	500	Moscow
DK2OM	14014,0	1007	24	10	RUS		A1A			5 letter groups - Moscow
DK2OM	14025,5	0843	31	10	CHN		OFDM	44.45	2300	PRC 39 modem – East China
DK2OM	14026,0	1244	02	10	RUS		PSK2A	120	2600	AT3004D – traffic and submode idle - Moscow – also 11.10.2016 at 0920 utc
DK2OM	14030,0	vt	vd	10	CHN		FSK8	125	1750	ALE, "Y" "473" "853"
DK2OM	14100,0	vt	dly	10	ALG	no ITU	FSK8	125	1750	ALE, "6206" "6204" "6212" "6202" "6203" "6207" "6217" "MTL" "IJ" – Mauritanian

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										border – daily, all day
DK2OM	14100,0	---	--	10	F		FMCW		20k	French OTH burst radar, 6 sps, similar Codar sounding, South France
DK2OM	14108,0	---	--	10	RUS		A1A			“BXCS de 9KHQ” - RUS MIL area of Moscow – many spurious emissions
DK2OM	14109,0	vt	vd	10	TWN	HAM	FSK8	125	1750	ALE, “BV4AS” – daily - just for info!
DK2OM	14109,0	vt	vd	10	INS	HAM	FSK8	120	1750	ALE, “YD00XH3” – just for info!
DK2OM	14109,0	vt	dly	10	S HRV D		FSK8	125	1750	ALE, “SM3FXL” “9A4OS” “9A3BRV” “DK0ESD” - just for info!
DK2OM	14109,0	1601	07	10	G		FSK8	125	1750	ALE, “M1DFO” – just for info
DK2OM	14114,0	0841	16	10	RUS		FMCW		13k	OTH radar Contayner - 50 sps – Gorodezh – long lasting
DK2OM	14116,0	0919	10	10	RUS		F1B	75	250	Moscow
DK2OM	14125,0	0844	31	10	RUS		PSK2A	120	2600	AT3004D - Chabarovsk
DK2OM	14127,0	1500	16	10	RUS		FMCW		13k	OTH radar Contayner - 50 sps – Gorodezh
DK2OM	14132,0	0915	10	10	RUS		F1B	75	250	Jekaterinburg
DK2OM	14140,0	1336	15	10	RUS		FMCW		10k	OTH burst radar Contayner - 10 sps – Gorodezh – also 13.09.2016 at 1156 utc
DK2OM	14140,0	1009	07	10	RUS		FMCW		13k	OTH radar Contayner - 50 sps – Gorodezh
DK2OM	14145,0	0850	04	10	RUS		FMCW		13k	OTH radar Contayner - 50 sps – Gorodezh
DK2OM	14155,0	1016	29	10	RUS		FMCW		10k	OTH burst radar Contayner - 10 sps - Gorodezh
DK2OM	14160,0	vt	dly	10	MRC		FSK8	125	1750	ALE, “9204” “9228” “9236”
DK2OM	14177,0	1005	09	10	RUS		A1A			vvvvv - CAPB de 5LT8 - NN8Z – 6JQQ - Moscow
DK2OM	14180,0	0810	01	10	RUS	RDL	F1B	50	200	RUS Navy - Sevastopol - daily
DK2OM	14185,0	0931	19	10	RUS		FMCW		10k	OTH burst radar Contayner - 10 sps - Gorodezh
DK2OM	14192,0	vt	dly	10	RUS		F1B	50 75 50 100 100	500 500 200 500 200	RUS navy Kaliningrad - daily
DK2OM	14201,8	0858	04	10	CHN		PSK2	75	2200	PRC 16 tone modem – USB mode – pilot tone 450 Hz - RF 14200.0 kHz - China – Shanghai - daily
DK2OM	14205,0	vt	dly	10	CHN	no ITU	FSK8	125	1750	ALE, “505” “822”
DK2OM	14221,0	vt	vd	10	KGZ		F1B	50	200	CIS-50-50 - Bishkek – daily
DK2OM	14240,0	0807	12	10	RUS		F1B	75	250	Moscow
DK2OM	14248,5	0525	29	10	ETH		F1B	600	600	DRK-FSK 600 – Adis Abeba
DK2OM	14260,0	vt	dly	10	SRB	YU1BI	FSK8	125	1750	ALE, “YU1BI” – just for info!
DK2OM	14272,0	---	--	10	RUS	RCV	A1A			RUS Navy Sevastopol
DK2OM	14280,0	1310	12	10	RUS		F1B	75	250	Moscow
DK2OM	14288,0	1220	06	10	RUS		FMCW		13k	OTH radar Contayner - 50 sps Gorodezh – long lasting
DK2OM	14295,0	vt	dly	10	SRB	YU1BI	FSK8	125	1750	ALE, “YU1BI” – just for info!
DK2OM	<b>14295,0</b>	<b>0823</b>	<b>01</b>	<b>10</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	14300,0	0830	28	10	CHN		FMOP		10k	Chinese OTH radar – 14300 and 14330 kHz jumping - 67 sps - 3.8 sec bursts
DK2OM	14301,0	0900	24	10	CHN		FMCW		10k	Chinese OTH radar – 14301 and 14310 kHz jumping – 67 sps – 3.8 sec bursts and later long lasting on 14310 kHz
DK2OM	14330,0	vt	dly	10	TWN		FSK8	125	1750	ALE, “BV4”
DK2OM	14334,0	vt	vd	10	CHN	no ITU	FSK8	125	1750	ALE, “249” “255” “763”

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	14340,0	---	--	10	RUS		PSK2A	120	2600	AT3004D – Vladivostok with spurious emissions +/- 35 kHz and +/- 70 kHz - daily
DK2OM	14340,0	vt	vd	10	CHN		FSK8	125	1750	ALE, “106” “591”
DK2OM	14340,0	0829	22	10	CHN		FMOP		10k	Chinese OTH radar – 67 sps – 3.9 sec bursts – every 30 sec
DK2OM	14346,0	1456	02	10	THA	HS0ZEA	A1A			HS0ZEA beacon – 14345.950 kHz - every 5 minutes – daily - just for info!
DK2OM	14346,0	vt	dly	10	POR		FSK8	125	1750	ALE, “CT2IXQ” just for info – various times, daily
DK2OM	<b>14347,0</b>	---	--	<b>10</b>	<b>UKR</b>		<b>A3E</b>			<b>female voice with encrypted msgs – figures – “SZRU” = Foreign Intelligence Service of Ukraine in Rivne</b>
DK2OM	14351,7	---	--	<b>10</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	18070,0	0740	07	10	CYP		FMCW		20k	OTH radar Cyprus – 50 sps
DK2OM	<b>18080,0</b>	<b>0600</b>	<b>dly</b>	<b>10</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	18090,0	1225	18	10	TUR		FMCW		20k	OTH radar West-Turkey – 50 sps
DK2OM	18100,0	vt	dly	10	MRC	no ITU	FSK8	125	1750	ALE, “A2” “A4” “A5” “A7” “S6” – “C3” “G401” “CD” “09” “G2” “LG6” “G301” “ELJADIDNET4” - daily, various times
DK2OM	18106,0	vt	vd	10	POR	CT2GOY	FSK8	125	1750	ALE, “CT2GOY” – just for info!
DK2OM	18107,0	1327	06	10	RUS	RDL	F1B	50	200	CIS-50-200 - Moscow – idle and traffic – daily - Russian navy – shared band!
DK2OM	18117,5	vt	vd	10	POR	CT2IXQ	FSK8	125	1750	ALE, “CT2IXQ” – just for info
DK2OM	18140,0	vt	dly	10	SRB	YU1BI	FSK8	125	2600	ALE, “YU1BI” – just for info!
DK2OM	18150,0	---	--	10	RUS		F1B	100	1000	harmonic from 9075 (100 Bd, 500 Hz) - Kaliningrad
DK2OM	21000,0	vt	vd	10	INS		USB			Indonesian pirates - daily
DK2OM	<b>21000,0</b>	---	--	<b>10</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>10</b>	<b>SDN</b>		<b>USB</b>			<b>MFA Sudan – Khartoum with emba Yemen – voice traffic</b>
DK2OM	21000,0	---	--	10	F		FMCW			French OTH burst radar – every 15 minutes – South France
DK2OM	<b>21002,2</b>	---	--	<b>10</b>	<b>SDN</b>	<b>!0000 !9999 !8888</b>	<b>F1B</b>	<b>100</b>	<b>170</b>	<b>21002.15 kHz - Pactor 1 encrypted – MFA Sudan – Khartoum with emba Yemen</b>
DK2OM	21055,0	0910	24	10	CYP		FMCW		20k	OTH radar Cyprus – 50 sps
DK2OM	21070,0	0945	31	10	TUR		FMCW		20k	OTH radar West-Turkey
DK2OM	21096,0	vt	dly	10	INS	YD00XH	FSK8	125	1750	ALE, “YD00XH3” – daily, various times - just for info!
DK2OM	21096,0	vt	vd	10	G		FSK8	125	1750	ALE, “M1DFO” – just for info!
DK2OM	21131,0	vt	vd	10	CHN	no ITU	FSK8	125	1750	ALE, “A92” “L02” – Chinese diplo
DK2OM	21145,0	0838	07	10	MRC	no ITU	FSK8	125	1750	ALE, “B301”, “C3”, “IR4” “H4” “IR6” “T4” “E4” “A2” “CD” “K3” “KB2” “J5” “GR2” “GS4” “R3” “R301” “R33” “R8” “R5” “Y1” “S51” “S3” “S512” “S552” “G2” “G501” - various times, daily
DK2OM	21145,8	ady	dly	10	I	IZ3DVW	A1A			IZ3DVW beacon – 21145,790 kHz – daily, all day - not coordinated with IARU

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	21160,0	---	--	10	RUS		F1B	100	2000	4th from 5290 kHz (500 Hz shift) – St. Peterburg
DK2OM	21190,0	---	--	10	RUS		F1B	100	1000	harmonic from 10595 kHz - Moscow - daily
DK2OM	21350,0	0920	16	10	TUR		FMCW		20k	OTH radar West-Turkey – 50 sps
DK2OM	21400,0	---	--	10	RUS		F1B	50	2000	harmonic from 5350 kHz – area of Moscow - daily
DK2OM	21409,5	---	--	10	RUS		F1B	100	2000	F1B 100 / 2000 - CIS14 – harmonic from 10704.75 - Jekaterinburg, RUS - daily
DK2OM	21436,0	---	--	10	RUS		PSK2A	120	5200	AT3004D – harmonic from 10718.0 kHz - Sevastopol
DK2OM	21438,0	0918	13	10	RUS	RCV	A1A			RIP90, RCV, RGX94 - RUS Navy Sevastopol - daily
DK2OM	21440,0	1010	09	10	CHN		A3E		15k	splattering down to 21440 kHz – Radio Free Asia and CNR1 (Chinese jammer)
DK2OM	21446,0	ady	dly	10	THA	HS0ZEA	A1A			HS0ZEA beacon – every 5 minutes - just for info!
DK2OM	25000,0	ady	dly	10	FIN		A3E			time signal Helsinki – just for info – carrier on 25000 – dots on 25001 and 24999 – daily, all day – just for info!
DK2OM	28000,0	vt	vd	10	B		A3E			<b>Brazilian CBers – 28000 – 28325 – daily, all day - no change</b>
DK2OM	28000,0	---	--	10	CIS		F3E			<b>28000 – 29700 numerous CIS taxi nets – no change</b>
DK2OM	28000,0	1554	12	10	E		F3E			<b>Spanish CBers</b>
DK2OM	28010,1	---	--	10	POR		F1B	51	300	F1B bursts –west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28025,0	---	--	10	POR		F1B	51	300	F1B bursts – 28025.050 kHz - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28030,0	---	--	10	POR		F1B	51	340	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28045,0	---	--	10	POR		F1B	51	280	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28050,0	---	--	10	POR		F1B	51	300	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28051,5	1445	13	10	POR		F1B	51	300	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28060,0	---	--	10	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28065,1	1302	13	10	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28065,8	---	--	10	GAB		A3E		980	carrier and dots in USB and LSB, bursts every 60 sec – carrier – Gabon – daily and all day
DK2OM	28075,0	---	--	10	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28085,0	---	--	10	POR		F1B	51	300	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28090,1	---	--	10	POR		F1B	51	320	F1B bursts - 28100.780 kHz - west of Lisbon – Atlantic

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										Ocean - Enagal GPS buoys - daily
DK2OM	28100,2	1340	13	10	POR		F1B	51	300	F1B bursts - 28100.780 kHz - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28102,1	---	--	10	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28125,0	---	--	10	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28146,0	vt	vd	10	ARG B		FSK8	125	1750	ALE, “LU8EX” “PY2TI” “DL1” – just for info!
DK2OM	28200,0	---	--	10	POR		F1B	51	330	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28224,4	---	--	10	GAB		A3E			carrier and dots +/- 770 Hz - bursts every 60 sec – Gabon – daily and all day
DK2OM	28249,6	---	--	10	GAB		A3E		1380	carrier and dots +/- 745 Hz - bursts every 60 sec – Gabon – daily and all day
DK2OM	28250,5	---	--	10	GAB		A3E		1000	carrier and dots +/- 500 Hz - bursts every 60 sec – Gabon – daily and all day
DK2OM	28275,1	---	--	10	AF		F1B	51	320	F1B bursts -Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28312,5	vt	vd	10	POR	CT2IXQ	FSK8	125	1750	ALE. “CT2IXQ” – just for info
DK2OM	28315,0	---	--	10	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28345,1	---	--	10	GAB		A3E		1060	carrier and dots +/- 530 Hz - bursts every 60 sec – Gabon – daily and all day
DK2OM	<b>28435,0</b>	----	--	<b>10</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	----	--	10	GAB		A3E		1060	carrier and dots +/- 530 Hz - bursts every 60 sec – Gabon – daily and all day
DK2OM	28459,9	---	--	10	GAB		A3E		1060	carrier and dots +/- 530 Hz - bursts every 60 sec – Gabon – daily and all day
DK2OM	<b>28499,8</b>	---	--	<b>10</b>	<b>MEa</b>		<b>F1B</b>	<b>81.9</b>	<b>140</b>	<b>Datawell-buoy “Waverider” – 28499.875 kHz – Persian Gulf</b>
DK2OM	28701,1	---	--	10	GAB		A3E		1056	carrier and dots +/- 528 Hz - bursts every 60 sec – Gabon – daily and all day
DK2OM	28745,3	---	--	10	GAB		A3E		1060	carrier and dots +/- 530 Hz - bursts every 60 sec – Gabon – daily and all day
DK2OM	28751,2	---	--	10	GAB		A3E		1080	carrier and dots +/- 540 Hz - bursts every 60 sec – Gabon – daily and all day
DK2OM	28751,3	---	--	10	GBN		A3E		1040	carrier and dots +/- 520 Hz - bursts every 60 sec – Gabon – daily and all day
DK2OM	28801,5	---	--	10	GBN		A3E		1090	carrier and dots +/- 545 Hz - bursts every 60 sec – Gabon – daily and all day
DK2OM	28845,5	---	--	10	GAB		A3E		1060	carrier and dots +/- 530 Hz - bursts every 60 sec – Gabon – daily and all day
DK2OM	28901,1	---	--	10	GAB		A3E		1056	carrier and dots +/- 528 Hz - bursts every 60 sec – Gabon –

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										daily and all day
DK2OM	28960,0	0824	02	10	IRN		FMOP		55k	radar Iran – burst mode – 150 and 313 sps
DK2OM	29114,0	---	--	10	RUS		F1B	100	2000	harmonic from 14557.0 kHz - Moscow
DK2OM	29249,9	1339	17	10	E		F1B	81.9	140	Datawell-buoy “Waverider” – 29249.890 kHz – Spain Fuerteventura - daily, all day
DK2OM	29375,0	---	--	10	I		F1B	81.9	140	Datawell-buoy “Waverider” – 29374.898 kHz – Gallipoli, South Italy - daily, all day
DK2OM	29387,5	---	--	10	IND		F1B	81.9	140	Datawell-buoy “Waverider” – 29387.460 kHz – Indian NW coast, close to Pakistan - daily, all day
DK2OM	29400,0	---	--	10	USA		F1B	81.9	140	Datawell-buoy “Waverider” – 29400.070 kHz - USA north-east coast – NY daily, all day
DK2OM	29450,0	---	--	10	MRC		F1B	81.9	140	Datawell-buoy “Waverider” – 29449.895 kHz - area of El Aaiun – Morocco - daily, all day
DK2OM	29500,0	---	--	10	G		F1B	81.9	140	Datawell-buoy “Waverider” – area of Gibraltar – daily, all day
DK2OM	29525,0	---	--	10	MRC		F1B	81.9	140	Datawell-buoy “Waverider” – 29524.990 kHz - Agadir - Morocco – daily, all day
DK2OM	29625,0	---	--	10	USA		F1B	81.9	140	Datawell-buoy “Waverider” – 29625.024 kHz - USA north-east coast – daily, all day
DK2OM	29685,0	---	--	10	I		VFT		2300	Italian MIL - Brescia
DK2OM	29699,5	---	--	10	I		VFT		1600	Italian MIL - Brescia

### IRTS – Ireland – EI3GYB (Michael)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	DETAILS
IRTS	1896.5	1806	23	10	D		PSK8	German navy- now with winter propagation again all day long! Frequency unusable.
IRTS	3516	0715	17	10	MM		USB	2 male Japanese voices chatting along with plenty of “Dodo”.
IRTS	3535	1935	06	10	G or MM		USB	2 male Scottish fishermen.
IRTS	3535	1235 to 1310	18	10	G or MM		USB	2 male Scottish fishermen. Motor noise. Clear signal. No foul language this time. VHF traffic audible in background. One person has the name Dave.
IRTS	3535	1000	20	10	HOL or MM		USB	2 male Dutch fishermen.
IRTS	3535	1237 to 1244	21	10	G or MM		USB	2 male Scottish fishermen. Audio not great. VHF traffic in the background of one of those ships.
IRTS	3536	1234 to 1255	20	10	G or MM		USB	2 male Ulster fishermen. Endless chat. Names Terry and George. VY strong signal. Motor noise audible, crystal clear audio from both sides.
IRTS	3536	1205-1235	28	10	G or MM		USB	2 male fishermen. Ulster accent. One person is called Trevor. One of them whistles all the time. One signal keeps the same signal strength all the time while the other one goes up and down in very regular intervals.
IRTS	3550	0915	22	10	F		AM	Group of French HAMs persistently violating band plan with AM traffic in CW portion of band. Heard very often already in the past at different times of the day.
IRTS	3548.5	1120 to 1259	26	10	IRL or		USB	2 Irish fishermen. One is called Jim. Says “See you later- I leave it on here!” Whistling at 1250.

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	DETAILS
					MM			Conversation starts again. Huge signals from both sides. Not a single sentence without the word "Fuck". One person has a Cork accent, the other one sounds like from Dundalk. Ballycotton mentioned a few times. "Talk to you after a while".
IRTS	3565	1254 to 1310	25	10	MM		USB	2 male Irish fishermen. Loud motor noise with some hammering in the background. Loads of foul language. One fisherman has a dog on board who keeps barking until he is told to "shut the fuck up". At 1259z one of the fishermen gives his position to the other one: 52.27 North and 5.12 West. 52.39 North and 5.34 West. He says he circles around the centre.
IRTS	3570	0720	17	10	DNK		USB	Danish fishermen, 2 male persons. Talking about the price of fish.
IRTS	3640	0915	14	10	MM		USB	2 male Japanese persons. VY strong signals
IRTS	3640	0925	22	10	MM		USB	2 male Japanese persons chatting again.
IRTS	5370	1540	10	10	E or MM		USB	2 male Spanish fishermen.
IRTS	5395	1545	10	10	E or MM		USB	2 male Spanish fishermen.
IRTS	5464.5	1233	24	10	F or MM			Group of French fishermen. Note: Not HAM frequency, just for info.
IRTS	5525.5	1820	23	10	G or MM		USB	2 male Scottish fishermen. Very foul language ("Stupid cunt!"). One person is called Brian. Note: No HAM frequency, just for info.
IRTS	7000	1645	04	10	RUS		AM	Buzzer. Weak signal.
IRTS	7050	1320	06	10	RUS/UKR		LSB	Ukrainian-Russian radio war. Female voice shouting slogans in English and Russian. Abuse shouted back by others. Plenty of music and propaganda. Audible all afternoon. Still active at 1930. This happens nearly every single day.
IRTS	7055	1930	06	10	RUS/UKR		LSB	Same as above. Also nearly every single day.
IRTS	7076.5	0930	19	10	RUS			Strong digital signal from RUS army/navy. Two German HAMS are getting their QSO destroyed and complain about the intruding signal.
IRTS	7146.3	1640	04	10	ERI		AM	Radio Eritrea with a MX programme. Strong signal.
IRTS	7200	1425 to 1500	07	10	BRM		AM	Radio Myanmar. Very weak signal.
IRTS	7200	1250	13	10	Taiwan		AM	Radio Taiwan International until s/off at 1300z
IRTS	10123	1850	26	10			USB	Korean fishermen chatting. Two male persons.
IRTS	10125	1030 to 1052	27	10	E or MM		USB	Group of male Spanish fishermen chatting happily.
IRTS	10127	1820	10	10				Massive Radar signals from 10127 to 10170 KHz.
IRTS	14191	1315	05	10	RUS		F1B	RUS Navy Kaliningrad. Every day all day from early morning until nightfall. Frequency always unusable.
IRTS	14260	0750	05	10				Persistent huge digital signal.
IRTS	14277	0620	12	10				Radar from 14277 to 14295 KHz. Persistent.
IRTS	14290	1340	22	10				RADAR from 14290 to 14321 KHz.
IRTS	14295	1010	14	10	TJK		AM	Radio Tajikistan, third harmonic. Audible on many days
IRTS	18150	0950	20	10				Radar from 18150 to 18180 KHz.
IRTS	18151	1248	24	10				Radar from 18151 to 18176 KHz.
IRTS	18162	0820	19	10				Radar from 18162 to 18186 KHz.
IRTS	21323	1315	13	10				Voice encrypted traffic. One male voice recognizable.
IRTS	28260	1255	13	10	RUS		FM	RUS taxi. Female voices.
IRTS	28300	1305	13	10	I		FM	Italian CBers. Roger beeps, several male voices
IRTS	28333	1440	10	10				Radar from 28333 to 28365 KHz.
IRTS	28405	1300	13	10			AM	2 male persons in a South East Asian language. Probably fishermen from THA or INS.

**KARS – Kuwait – 9K2RR (Faisal)****MRASZ – Hungary - HA7PL (Laci)**

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	DETAILS
MRASZ	3513,0	1725	28	10			LSB		russian male
MRASZ	3515,0	1946	12	10			A3E		unidentified
MRASZ	3524,0	1625	9	10			F1B	250	hrd: 10, 11, 12, 23,
MRASZ	3540,1	1909	6	10			N0N		
MRASZ	3541,0	1738	11	10			F1B	150	hrd: 12
MRASZ	3544,0	1815	19	10			F1B	250	hrd: 20, 23
MRASZ	3544,5	1624	9	10			F1B	250	
MRASZ	3547,4	1830	27	10			A1A		"PSFW de HM3M QTC K"
MRASZ	3548,0	1633	23	10			F1B	200	hrd: 27, 28, 31
MRASZ	3550,0	1739	11	10			PSK2		AT3004D
MRASZ	3550,0	1638	12	10			PSK2		AT3004D
MRASZ	3550,0	1721	14	10			PSK2		AT3004D
MRASZ	3551,8	1740	11	10			A1A		dashes
MRASZ	3558,0	1718	23	10			A3E		instable carrier
MRASZ	3560,0	2051	6	10			A3E		instable carrier
MRASZ	3568,0	1909	6	10			F1B	250	
MRASZ	3578,0	2001	6	10			PSK2		AT3004D
MRASZ	3578,0	1627	9	10			F1B	200	
MRASZ	3590,3	1719	14	10			F1B	250	
MRASZ	3593,0	1824	28	10			LSB		russian male
MRASZ	3628,2	1957	5	10			A1A		dotter, deliberate disturbance
MRASZ	3640,0	1958	5	10			F1B	250	hrd: 6
MRASZ	3766,0	2007	6	10			A1A		"2Z1H de BAWU K"
MRASZ	3785,0	1715	14	10			PSK2		AT3004D
MRASZ	3796,9	1914	6	10			A1A		"RIC87 de RCV" russian text, hrd:11, 17, 27, 28
MRASZ	7000,0	1936	5	10	RUS		H3E	3,4 k	buzzer, hrd: 6, 9, 10, 12, 14, 15, 19, 20, 23, 28
MRASZ	7000,0	1632	12	10			LSB		italian male, hrd: 14
MRASZ	7013,0	1753	11	10			PSK2		AT3004D
MRASZ	7015,0	1554	28	10			LSB		unidentified
MRASZ	7016,0	1641	23	10			F1B	250	
MRASZ	7020,0	1903	6	10			F1B	250	
MRASZ	7022,0	1250	13	10			PSK2		AT3004D
MRASZ	7025,0	1818	19	10			OTHR		7025-7048 kHz
MRASZ	7025,0	1317	30	10			OTHR		
MRASZ	7050,0	1709	14	10			LSB		russian/ukrainian, chaos, music, curse
MRASZ	7050,0	1315	30	10			LSB		"PROVA PROVA" italian?
MRASZ	7055,0	1545	28	10			LSB		russian chaos, curse
MRASZ	7062,0	0722	7	10			F1B	1000	
MRASZ	7080,0	1940	5	10			F1B	200	hrd: 6, 11, 14
MRASZ	7090,8	1639	9	10			A1A		slow "V" stream, hrd: 10, 19, 23, 27, 28, 31
MRASZ	7092,7	1639	9	10			A1A		slow dots
MRASZ	7116,6	1956	5	10			N0N		
MRASZ	7120,0	1736	10	10	SOM		F1B	250	R. Hargaysa, till 3.1 Oct.heard every evening
MRASZ	7146,0	1747	11	10			A3E		music, hrd: 14, 19, 27, 31
MRASZ	7162,0	1310	30	10			F1B	300	
MRASZ	7175,0	1740	10	10	ERI		A3E		Radio Eritrea, hrd: 11
MRASZ	7176,0	1712	14	10			F1B	250	hrd:: 17
MRASZ	7185,0	1713	14	10			A3E		hrd: 19, 20, 27, 28, 31
MRASZ	10115,0	0724	7	10			F1B	500	
MRASZ	10126,0	1543	17	10			OTHR		10120-10132 kHz, hrd again at 1627
MRASZ	10147,0	1608	28	10			OTHR		10140-10154 kHz
MRASZ	14044,0	1326	13	10			A1A		deliberate disturbance
MRASZ	14169,0	1400	13	10			N0N		



SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	DETAILS
MRASZ	14180,0	0726	7	10			F1B	200	hrd: 11. 13. 14, 19, 23, 31
MRASZ	14192,0	1419	13	10			F1B	200	hrd: 15
MRASZ	14260,0	1548	28	10			OTHR		
MRASZ	14290,0	1456	15	10			USB		spanish male/female, non HAM's
MRASZ	14295,0	1905	6	10	TJK		A3E		Radio Tajik, 3rd. Harmonic, hrd: 17, 31
MRASZ	18074,0	0730	7	10			OTHR		18068-18080 kHz
MRASZ	18107,0	0729	7	10			F1B	200	hrd: 12, 13
MRASZ	18107,0	1716	12	10			F1A		"XXX XXX"
MRASZ	18107,0	1816	12	10			F1A		"RDL (3x) 254T8 73178 2548T...K"
MRASZ	18108,0	1645	12	10			A1A		"RIC87 de RCV QTC 220 66 9 1357 221="
MRASZ	18108,0	1645	12	10			OTHR		18102-18112 kHz
MRASZ	18134,0	1758	11	10			OTHR		18100-18168 kHz

### OEVSV – Austria – OE3GSA (Gerd)

### PZK – Poland – SP9BRP (Jan)

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

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	Baud	Sh /Bw	DETAILS
R.E.F.										<b>October 2016</b>
R.E.F	7030	1713	03	10			fmcw		20kHz	OTH radar S9+15 pulsed 20ms
R.E.F	7033	1657	24	10			fmcw		20kHz	OTH radar S9+20 pulsed 20ms
R.E.F	7146	1706	16	10		Eritrea	AM		30kHz	Radio Eritrea S8 Arabic
R.E.F	7146	1706	23	10		Eritrea	AM		30kHz	Radio Eritrea S9 Arabic +QRM
R.E.F	7146	1706	25	10		Eritrea	AM		30kHz	Radio Eritrea S9 Arabic
R.E.F	7146	1650	30	10		Eritrea	AM		30kHz	Radio Eritrea S9 Arabic jam.
R.E.F	7185	1700	16	10		Eritrea	AM		30kHz	Radio Eritrea S9 Arabic
R.E.F	7185	1700	23	10		Eritrea	AM		30kHz	Radio Eritrea S9 Arabic +QRM
R.E.F	7185	1700	25	10		Eritrea	AM		30kHz	Radio Eritrea S9 Arabic
R.E.F	7185	1650	30	10		Eritrea	AM		30kHz	Radio Eritrea S9 Arabic jam.
R.E.F	10150	1716	7	10			fmcw		20kHz	OTH radar S9 pulsed 20ms
R.E.F	10150	1608	30	10			fmcw		20kHz	OTH radar S9+10 pulsed 20ms
R.E.F	14055	0818	11	10			fmcw		20kHz	OTH radar S9+40! pulsed 20ms
R.E.F	14075	0819	4	10			fmcw		20kHz	OTH radar S9+10 pulsed 20ms
R.E.F	14145	0745	4	10			fmcw		20kHz	OTH radar S9+10 pulsed 20ms
R.E.F	14150	1403	15	10			fmcw		20kHz	OTH radar S9+30 pulsed 20ms
R.E.F	14150	1650	16	10			fmcw		20kHz	OTH radar S9+20 pulsed 20ms
R.E.F	21150	0811	11	10			fmcw		20kHz	OTH radar S9+10 pulsed 20ms

From F5JBR (Frequency on shared band has being highlighted) :

SOC	kHz	UTC	DD	M	M	ITU	IDENT	MODE	BD	SH	DETAILS
REF	3504.0	0353	13	10	RUS	Russian Military	F1B		75	250	Encrypted messages
REF	3513.0	1645	09	10	RUS	PASSAT-14	LSB				PASSAT-14 Calling outstations in Duplex
REF	3513.0	0848	20	10	RUS	FAKTUR-79	LSB				FAKTUR-79 comms with outstations in Dx
REF	3524.0	1641	09	10	RUS	Russian Military	F1B		75	250	Encrypted messages
REF	3524.0	0740	12	10	RUS	Russian	F1B		75	250	Encrypted messages

SOC	kHz	UTC	DD	M	ITU	IDENT	MODE	BD	SH	DETAILS
						Military				
REF	3525.0	0355	08	10	RUS	8CEC	CW			8CEC Wkg 7 outstations in Dx
REF	3525.0	0344	22	10	RUS	MEJ8	CW			MEJ8 working 7 outstations in Duplex
REF	3531.0	1750	26	10	RUS	RCV	CW			RCV working RFX42 in Simplex
REF	3534.0	0536	12	10	RUS	Russian Military	F1B	75	250	Encrypted messages
REF	3539.0	1530	16	10	RUS	7FS7	CW			7FS7 worked outstations in Duplex
REF	3541.0	0416	13	10	RUS	Russian Military	F1B	75	250	Encrypted messages
REF	3544.0	0358	20	10	RUS	Russian Military	F1B	75	250	Encrypted messages
REF	3543.5	1728	05	10	RUS	Russian Air Defense	CW			Tracking : 9510 997 54 18 26 9510 997 5134 28 ... / ... 9510 997 5132 32
REF	3543.5	1846	18	10	RUS	Russian Air defense	CW			Tracking
REF	3552	1721	05	10	RUS	Russian Military	CIS-12/AT300 4D/USB	120 per channel	2700	Encrypted messages
REF	3552.0	0434	13	10	RUS	Russian Navy	F1B	50	200	Encrypted messages
REF	3568.0	1500	06	10	RUS	Russian Navy	F1B	50	250	Encrypted messages
REF	3568.0	0525	07	10	RUS	Russian Navy	F1B	50	250	Encrypted messages
REF	3568.0	0418	22	10	RUS	Russian Navy	F1B	50	250	Encrypted messages
REF	3576.0	1720	05	10	RUS	Russian Military	CIS-12/AT300 4D/USB	120 per channel	2700	Encrypted messages
REF	3576.0	0441	13	10	RUS	Russian Military	CIS-12/AT300 4D/USB	120 per channel	2700	Encrypted messages
REF	3577.0	0400	13	10	RUS	Russian Military	CIS-12/AT300 4D/USB	120 per channel	2700	Encrypted messages
REF	3580.0	0406	13	10	RUS	OSFP	CW			OSFP Wkg 5 outstations in Duplex
REF	3584	1344	09	10	RUS	YFJA	CW			YFJA Wkg Outstations in Bcast
REF	3586.0	1643	09	10	RUS	Russian Navy	F1B	75	200	Encrypted messages
REF	3590.0	1335	12	10	RUS	Russian Military	CIS-12/AT300 4D/USB	120 per channel	2700	Encrypted messages
REF	3594.5	0607	08	10	RUD	RJD99	CW			RJD99 Wkg RMU in Bcast
REF	3594.5	1804	08	10	RUS	RJD99	CW			RJD99 worked SHIPS in Duplex
REF	3594.5	0533	12	10	RUS	RJD99	CW			RJD99 worked SHIPS in Duplex
REF	3601	1832	21	10	RUS	Russian Military	F1B	75	250	Encrypted messages
REF	3617.0	1713	19	10	RUS	4IGA	CW			4IGA wkg outstations in Simplex

SOC	kHz	UTC	DD	M	ITU	IDENT	MODE	BD	SH	DETAILS
REF	3619.0	1806	26	10	RUS	LIY2	CW			LIY2 Working 3 outstations in Duplex
REF	3622.0	0539	12	10	RUS	MSMP	CW			MSMP Wkg 3 outstations in Simplex
REF	3636.0	1800	13	10	RUS	JP6Q	CW			JP6Q wkd 4 outstations in Duplex
REF	3640	1716	05	10	RUS	Russian Military	F1B	75	250	Encrypted messages
REF	3640.0	0535	07	10	RUS	Russian Military	F1B	75	250	Encrypted messages
REF	3642.0	1745	07	10	CHN	3A7D	CW			3A7D calling DKG6 (Only : DKG6 de 3A7D V)
REF	3652.5	1159	05	10	RUS	RMP	CW			RMP Wkg RJ152 (only calling)
REF	3652.5	1203	28	10	RUS	RMP	CW			RMP Working SHIPS in duplex
REF	3659.0	1656	11	10	RUS	Russian Military	F1B	75	250	Encrypted messages
REF	3673.5	0532	07	10	RUS	1BJP	CW			1BJP Wkd 3 outstations in Sx
REF	3673.5	0532	12	10	RUS	3VGD	CW			3VGD Wkd 3 outstations in Sx
REF	3673.5	0532	26	10	RUS	GKOT	CW			GKOT Working 3 outstations in Simplex
REF	3683.0	1705	04	10	RUS	7RNC	CW			7RNC Wkg RJD99 (only calling)
REF	3683.0	0431	05	10	RUS	7RNC	CW			7RNC Wkg RJD99 (only calling)
REF	3683	1655	05	10	RUS	Russian Navy	F1B	75	200	Encrypted messages
REF	3683.0	0427	08	10	RUS	X1SU	CW			X1SU Wkg RJD99 (only calling)
REF	3683.0	1657	21	10	RUS	Russian Military	CIS-12/AT300 4D/USB	120 per channel	2700	Encrypted messages
REF	3685.0	1520	06	10	RUS	Russian Military	CW			NCS Worked 2 Ostns in Sx
REF	3687.0	0714	04	10	RUS	RJC30	CW			RJC30 Wkg RJC66 (only calling)
REF	3690.5	1732	13	10	RUS	RKN	CW			RKN send messages in Broadcast
REF	3692.5	1809	19	10	RUS	RJD56	CW			RJD56 send messages in broadcast
REF	3693.5	1840	06	10	RUS	RMP	CW			RMP send QTC SML) in Broadcast
REF	3693.5	1801	07	10	RUS	RMP	CW			RMP Send messages in Bcast
REF	3693.5	1702	12	10	RUS	RMP	CW			RMP Send messages in Bcast
REF	3702.0	1404	03	10	RUS	Russian Navy	F1B	75	200	Encrypted messages
REF	3712.0	1743	19	10	RUS	DCA2	CW			DCA2 (only) calling) in Broadcast
REF	3720.0	1417	03	10	RUS	MFWU	CW			MFWU Wkg 3 outstations in Simplex
REF	3720.0	0632	17	10	RUS	HXMQ	CW			HXMQ send messages in Broadcast
REF	3732	1748	07	10	RUS	Russian Military	F1B	75	250	Encrypted messages
REF	3732	1757	08	10	RUS	CXVM	CW			CXVM Worked 5 outstations in Duplex

SOC	kHz	UTC	DD	M	ITU	IDENT	MODE	BD	SH	DETAILS
REF	3735.0	1424	17	10	RUS	Russian Military	CIS-12/AT300 4D/USB	120 per channel	2700	Encrypted messages
REF	3740.0	0511	04	10	RUS	RUA41	F1B	100	500	Encrypted messages
REF	3742.0	1429	17	10	RUS	RJY95	CW			RJY95 worked RJD69 in Simplex
REF	3739.5	1530	16	10	RUS	6RM4	CW			6RM4 worked outstations in Broadcast
REF	3750.0	1800	02	10	RUS	RMW46	CW			RMW46 working outstations in Simplex
REF	3750.0	1800	08	10	RUS	RMW46	CW			RMW46 working outstations in Simplex
REF	3760.0	1713	02	10	RUS	KARMA-90	USB			KARMA-90 Clg Outstations) in Simplex
REF	3765.0	1711	07	10	RUS	Russian Military	CIS-12/AT300 4D/USB	120 per channel	2700	Encrypted messages
REF	3768.0	1702	25	10	RUS	MSYH	CW			MSYH working 3 outstations in Duplex
REF	3775.0	1705	07	10	RUS	Russian Military	CW			Responses 6 outstations in Duplex
REF	3775.0	1646	19	10	RUS	Russian Military	CW			Responses 6 outstations in Duplex
REF	3775.0	1722	28	10	RUS	Russian Military	CW			Responses 6 outstations in Duplex
REF	3789.0	1746	02	10	RUS	Russian Air Defense	USB			Tracking in Russian Voice
REF	3789.0	0744	12	10	RUS	Russian Air Defense	USB			Tracking in Russian Voice
REF	3793.0	0433	02	10	RUS	Russian Military	CIS-12/AT300 4D/USB	120 per channel	2700	Encrypted messages
REF	3797.0	0333	04	10	RUS	RCV	CW			RCV send messages (for RIC87) in Broadcast
REF	3797.0	0348	22	10	RUS	RCV	CW			RCV send QTCs SML in Broadcast
REF	3797.0	1728	28	10	RUS	RCV	CW			RCV send QTCs SML in Broadcast
REF	3799.5	1432	17	10	RUS	J3ZB	CW			J3ZB workde 3YZR in Simplex
REF	7008.0	0419	04	10	RUS	Russian Military	F1B	75	250	Encrypted messages
REF	7016.0	0500	24	10	RUS	Russian Military	F1B	75	250	Encrypted messages
REF	7020.0	0636	06	10	RUS	Russian Military	F1B	75	250	Encrypted messages
REF	7020.0	1230	13	10	RUS	Russian Military	CIS-12/AT300 4D/USB	120 per channel	2700	Encrypted messages
REF	7056.0	0457	04	10	RUS	VADAYOP-43	USB			VADAYOP-43 Clg Outstations
REF	7076.0	0827	17	10	RUS	Russian Military	F1B	75	250	Encrypted messages

SOC	kHz	UTC	DD	M	M	ITU	IDENT	MODE	BD	SH	DETAILS
REF	7076.0	0536	19	10	RUS	Russian Military		F1B	75	250	Encrypted messages
REF	7079.0	1244	08	10	RUS	Russian Military	CIS-12/AT300 4D/USB		120 per channel	2700	Encrypted messages
REF	7108.0	0445	03	10	RUS	Russian Military	CIS-12/AT300 4D/USB		120 per channel	2700	Encrypted messages
REF	7114.0	0512	28	10	RUS	Russian Navy		F1B	50	200	Encrypted messages
REF	7122.0	0944	16	10	RUS	Russian Navy		F1B	50	250	Encrypted messages
REF	7127.0	0631	16	10	RUS	ETCQ		CW			ETCQ Wkg outstations in Duplex
REF	7160	0523	09	10	RUS	RMW32		CW			RMW32 Worked RGF80 (only calling)
REF	7162.0	0600	03	10	RUS	Russian Military		F1B	75	250	Encrypted messages
REF	7162.0	1002	21	10	RUS	Russian Military		F1B	75	250	Encrypted messages
REF	7169.0	0519	03	10	RUS	BPIA		CW			BPIA wkg 2 outstations in Duplex
REF	7169.0	1219	22	10	RUS	DRPK		CW			DRPK working 2 outstations in Duplex
REF	7176.0	0631	16	10	RUS	Russian Navy		F1B	50	250	Encrypted messages
REF	7174.5	1246	08	10	RUS	Russian Military		F1B	75	250	Encrypted messages
REF	7174.5	0530	09	10	RUS	Russian Military		F1B	75	250	Encrypted messages
REF	7184.0	0719	22	10	RUS	Russian Military	CIS-12/AT300 4D/USB		120 per channel	2700	Encrypted messages
REF	7196.0	0559	10	10	RUS	Russian Military	CIS-12/AT300 4D/USB		120 per channel	2700	Encrypted messages
REF	14116.0	0651	10	10	RUS	Russian Military		F1B	75	250	Encrypted messages
REF	14132.0	0649	10	10	RUS	Russian Military		F1B	75	250	Encrypted messages
REF	14177.0	1145	07	10	RUS	5LT8		CW			5LT8 Wkg 6 outstations in Sx
REF	14177	0755	08	10	RUS	5LT8		CW			5LT8 Wkg 6 outstations in Simplex
REF	14177	0630	10	10	RUS	5LT8		CW			5LT8 Wkg 6 outstations in Simplex
REF	14180.0	0640	03	10	RUS	Russian Navy		F1B	50	200	Encrypted messages
REF	14180	0800	08	10	RUS	RDL		F1B	50	200	Encrypted messages – traffic to nuclear forces
REF	14180.0	0629	10	10	RUS	RDL		F1B	50	200	Encrypted messages – traffic to nuclear forces
REF	14192.0	1206	10	10	RUS	Russian Navy		F1B	50	200	Encrypted messages
REF	14192.0	0833	22	10	RUS	Russian Navy		F1B	50	250	Encrypted messages

## REP – Portugal – CT4AN (Jose Francisco)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REP	1925	22.35	12	10	I	IPL	J3E-U			Livorno Radio Wx reports
REP	3505	07.40	05	10	F		J3E-U			Fishery
REP	3550	21.11	07	10	TUR		PSK8	2400		Stanag 4285, Turkey
REP	3595	08.04	14	10	E		J3E-U			Spanish fishery, CRY2000 encryption
REP	3625	09.10	01	10	POR		J3E-U			Fishery
REP	3641	08.43	10	10	E		J3E-U			Fishery, Galicia province - daily
REP	7010	08.19	02	10	MRC		J3E-U			Fishermen
REP	7011	18.24	11	10	RUS		PSK2	120	3k	AT3004D, 12x120bd BPSK, 3k pilot tone
REP	7015	08.25	04	10	E		J3E-U			Fishermen talking about Wx
REP	7020	20.45	10	10	RUS		F1B	75	250	CIS36
REP	7027	21.01	07	10	RUS	V	A1A			Beacon
REP	7035	22.00	07	10			FMCW			OTH radar
REP	7038	22.11	14	10	UKR	D	A1A			SEVASTOPOL, ADY, DLY
REP	7039	22.54	14	10	RUS	C	A1A			MOSCOW, ADY, DLY
REP	7045	18.47	21	10		2012	MFSK			ALE/141A Selcall. Also ID's 920018, 92001
REP	7060	23.10	14	10			F1B	50	200	Unid FSK
REP	7090	17.33	18	10	RUS		FMCW	50	18k	OTH radar, Russia
REP	7100	08.27	12	10			PSK			Unid PSK
REP	7120	19.39	06	10	SOM		8k00 A3EGN			Radio Hargaysa
REP	7120	17.52	22	10	SOM		8k00 A3EGN			BC, R. Hargeysa
REP	7175	18.31	10	10	ETH		8k00 A3EGN			BC, Radio Eritreia
REP	7185	17.49	22	10	ETH		8k00 A3EGN			BC, Radio Eritreia
REP	10110	18.32	02	10			PSK2			Mil-STANAG 4285 600/Long - NATO
REP	10115	20.05	11	10			A3E			Letters Station - 5 letters transmission
REP	10121	18.59	29	10			J3E-U			Arabic language fishery
REP	10123	19.00	29	10			J3E-U			Unid language ops, fishery
REP	10125	09.59	27	10	E		J3E-U			Spanish fishery, Galicia province
REP	10130	15.47	14	10	AUS		FMCW	23	10k	JORN OTH radar 20sps/10k, Australia
REP	10150	18.28	10	10			FMCW	50	20k	OTH radar, 10k into 30m amateur band
REP	14000	08.42	10	10			NON			Unmodulated carrier
REP	14045	21.19	11	10	E		J3E-U			Spanish fishery
REP	14086	10.00	12	10	RUS		F1B	50	250	CIS35, Russia
REP	14108	14.42	12	10	RUS		FMCW	50	13k	OTH radar Contayner
REP	14116	11.02	13	10	RUS		F1B	50	250	CIS36, Russia
REP	14116	08.32	10	10			F1B	50	250	Unid encrypted
REP	14127	18.34	16	10	RUS		FMCW	50	18k	OTH radar, Russia
REP	14132	08.35	10	10	RUS		F1B	50	250	CIS-50 encrypted, Russia
REP	14140	13.08	07	10	RUS		FMCW	50	18k	OTH radar
REP	14148	14.09	15	10	RUS		FMCW	50	18k	OTH radar, Russia
REP	14180	Dly	19	10	RUS		F1B	50	200	CIS36 Russian Mil, daily
REP	14192	Dly	19	10	RUS		F1B	50	250	CIS36 Russian Mil, daily
REP	14214	17.00	01	10	E		J3E-L			Spanish fishery
REP	14235	09.48	24	10			PSK			Unid PSK mode, 4 intro tones, two channels
REP	14264	09.40	17	10			FMCW		10k	Short burst OTH radar
REP	14285	10.33	08	10	CYP		FMCW	50	20k	OTH Radar, Cyprus
REP	14305	11.43	22	10	RUS		FMCW	50	18k	OTH radar, Russia
REP	18075	09.57	23	10			FMCW	50	18k	OTH radar
REP	18090	1235	18	10			FMCW	50	20k	OTH radar
REP	21070	18.42	04	10	E		J3E-L			Spanish fishermen
REP	21070	10.32	31	10			FMCW	25	20k	OTH radar
REP	21090	10.49	24	10			FMCW	50	20k	OTH radar
REP	21105	16.20	19	10	MRC		J3E-U			Fishermen
REP	21165	14.59	12	10			FMCW	50	20k	OTH radar
REP	21165	11.50	22	10			FMCW		40k	Wideband FMCW radar, 40k
REP	21190	09.22	17	10			FMCW	50	20k	OTH Radar
REP	21230	14.42	15	10			FMCW	25	20k	OTH radar
REP	24970	10.15	20	10	B		J3E-L			Brazilian pirates
REP	28065	15.51	13	10	B		A3E			Brazilian CB's, all over the band
REP	28102	Dly	Dly	10	CPV	36	F1B	51	300	Enagal driftnet buoy, west coast of Africa
REP	28150	10.22	05	10	RUS		F3E			Russian taxis female dispatchers
REP	28185	18.00	10	10	IRN		FMCW			OTH radar
REP	28250	17.40	15	10			F1B	82,2	140	Datawell Waverider GPS buoy
REP	28265	12.00	31	10	NZL		A1A			Fishing driftnet buoy NZ
REP	28280	11.11	17	10	RUS		F3E			YL taxi dispatcher DLY
REP	29140	11.21	17	10	RUS		F3E			Russian taxis

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REP	29146	16.20	04	10	B		J3E-U			Brazilian truckers
REP	29250	16.27	13	10			F1B	82	140	Datawell GPS buoy

## RSGB - Great Britain – M0VRR (Vaughan)

## SRAL – Finland – OH2BLU (Pekka)

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	REMARKS
SRAL	6998,0	0215-1930	dly	10	RUS	UiTone	R3E			125 Hz tones
SRAL	7000,0	0700-1000	28.	10		UiMux	PSK2	120	2600	
SRAL	7006,5	1010-1030/	10.	10		UiPTR	F1B		250	
SRAL	7009,0	1400-1530	10.	10		UiCarr	N0N			
SRAL	7016,0	0220-0650/	24.	10		UiPTR	F1B		250	
SRAL	7018,62	0625-0750/	26.	10		UiCarr	N0N			
SRAL	7022,0	1145-1400	13.	10		UiMUX	PSK2	120	2600	
SRAL	7030,0	0700-1300	*	10		UiPTR	F1B		250	Days: 3. 10. 18. 27. 30.
SRAL	7031,0	0525-1830	17.-20.	10		UiCarr	N0N			
SRAL	7039,5	0800-1100	23.	10		T T	A1A			Hand keying
SRAL	7061,0	0910-0950	3.	10		UiMUX	PSK2	120	2600	
SRAL	7070,0	1425	19.	10		UiMUX	PSK2	120	2600	
SRAL	7076,0	h24	17.-19.	10		UiPTR	F1B		250	
SRAL	7078,0	0645-0915/	8.	10		UiMUX	PSK2	120	2600	
SRAL	7081,0	1215-1400	8.	10		UiMUX	PSK2	120	2600	
SRAL	7091,5	1215-1850	dly	10	UZB	V	A1A			Keying failure
SRAL	7110,0	0440-0615	3.	10		UiMUX	PSK2	120	2600	
SRAL	7114,0	1115	5.	10		UiMUX	PSK2	120	2600	
SRAL	7116,6	0530-1125/	*	10		UiCarr	N0N			Days: 3. 4. 6. 7. 9. 19.
SRAL	7120,0	0320-0500/	dly	10	SOM	R.Hargeis a	A3E			
SRAL	7120,0	1500-1900/	dly	10	SOM	R.Hargeis a	A3E			
SRAL	7122,0	0630-1200	5. 16.	10		UiPTR	F1B		250	
SRAL	7140,5	1330	3.	10		UiMUX	PSK2	120	2600	
SRAL	7146,6	0300-0500/	dly	10	ERI	VoBME1	A3E			Jammed by ETH
SRAL	7146,6	1400-1840	dly	10	ERI	VoBME1	A3E			Jammed by ETH
SRAL	7160,0	1245	1.	10		UiMUX	PSK2	120	2600	
SRAL	7162,0	0545-1120	*	10	RUS	UiPTR	F1B		250	Days: 3. 20. 21. 27.
SRAL	7169,0	1100	1.	10		UiCW	A1A			QSA?
SRAL	7171,0	0450-0610	20.	10		UiMUX	PSK2	120	2600	
SRAL	7174,5	0520-1310/	8. 9.	10		UiPTR	F1B		250	
SRAL	7175,0	0300-0500	1. – 11.	10	ERI	VoBME2	A3E			Jammed by ETH

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	REMARKS
SRAL	7175,0	1320-1840/	1. – 11.	10	ERI	VoBME2	A3E			Jammed by ETH
SRAL	7176,0	0800-1930	16. 17.	10	RUS	UiPTR	F1B		250	
SRAL	7182,0	1430-1436/	9.	10		UiCW	A1A			MR 5BL
SRAL	7184,0	1300-1330	7.	10		UiMUX	PSK2	120	2600	
SRAL	7185,0	0300-0500	12. – 31.	10	ERI	VoBME2	A3E			Jammed by ETH
SRAL	7185,0	1320-1840/	12. – 31.	10	ERI	VoBME2	A3E			Jammed by ETH
SRAL	7198,0	0515-0900	10. 23.	10		UiMUX	PSK2	120	2600	
SRAL	7200,0	0930-1300/	dly	10	CHN	CNR1	A3E			Used as jammer on TWN
SRAL	7200,0	1300-1500/	dly	10	MMR	R Myanmar	A3E			
SRAL	7 MHz	/1720-0500/	*	10	RUS	29B6	FMCW			50Hz / 15 kHz, Days: 5. 15. 18. 19. (WebSDR 10 days)
SRAL	10 MHz			10	RUS	29B6	FMCW			50Hz / 15 kHz (WebSDR 15 days)
SRAL	14000,0	0515-1750	10. 11.	10		UiCarr	N0N			
SRAL	14008,0	0815	17.	10		UiPTR	F1B		500	
SRAL	14052,0	0920-1023/	4.	10		UiMUX	PSK2	120	2600	
SRAL	14116,0	0925-1340	10. 12.	10	RUS	UiPTR	F1B		250	
SRAL	14132,0	0705-1530	10.	10	RUS	UiPTR	F1B		250	
SRAL	14180,0	0530-1600	dly	10	RUS	RDL	F1B/A		200	MR 5F
SRAL	14192,0	0640-1100	23.	10	RUS	UiPTR	F1B		200	
SRAL	14221,0	0400-0600/	dly	10	KGZ	UiPTR	F1B		200	
SRAL	14295,0	0400-1500	dly	10	TJK	R Tojikiston	A3E			3f 4765,00 kHz, Yangiyul TX
SRAL	14 MHz	0630-1500	*	10	RUS	29B6	FMCW			50Hz / 15 kHz, days: 7. 11. 16.18. 19. 22. (WebSDR 12d.)
SRAL	14 MHz	0815-1830	*	10	RUS	UiOTHR	FMCW			10Hz / 15 kHz, 30 sec transmit with 16 min cycle, days: 7. 10. 15. 17. 18. 19. 20.
SRAL	18080,0	0750-0800/	8.	10	TWN	SOH	A3E			Jammed by CHN
SRAL	18 MHz	0530-1245	*	10	CYP / TUR	UiOTHR	FMCW			25/50Hz / 20 kHz, days: 19. 20. 23. (WebSDR 16 days)
SRAL	21 MHz	0900-1200	1. 16.	10	CYP / TUR	UiOTHR	FMCW			25/50Hz / 20 kHz (WebSDR 21 days)
SRAL	21438,0	/0830-1000	23.	10	RUS	RCV	A1A			
SRAL	24 MHz			10		UiOTHR	FMCW			No reports
SRAL	28960,0	0550-1100	*	10	IRN	UiOTHR	FMCW			150 & 313 Hz / 60 kHz , days: 10. 13. 15. 20. 21. 23. 24.
SRAL	28 MHz			10		UiOTHR	FMCW			25/50Hz / 20 kHz
SRAL	28 MHz	0930-1130	13. 15.	10	RUS	Taxi disp.	F3E			6 reports



## USKA – Switzerland – HB9CET (Peter)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
<b>80m band informational only, shared with other also primary allocated services !</b>										
USKA	3524.0	2149	10	10			F1B	75	250	daily
USKA	3525.0 (Center)	2224	02	10			DQPSK	14x75	5k9	LINK 11 CLEW; almost daily (STANAG 5511): ISP Mode
USKA	3541.0	2154	10	10			F1B	75	150	almost daily
USKA	3544.0	2117	25	10			F1B	75	250	
USKA	3548.0	2156	10	10			F1B	50	200	almost daily
USKA	3548.0 VFO USB	2159	10	10			J7D	12x120	2k7	BPSK; CIS12
USKA	3548.0	2208	22	10			F1B	75	250	often
USKA	3549.0 VFO USB	2122	25	10			PSK8	2400	~2k7	MIL188-110A (Hybrid), preamble 4 tones, 450Hz spacing
USKA	3552.0	2153	05	10			F1B	50	200	often
USKA	3553.8	2227	02	10			G1D	2400	~2k4	Stanag 4285; PSK8 almost daily
USKA	3568.0	2149	05	10			F1B	50	250	often
USKA	3586.0	2214	10	10			F1B	75	250	often
USKA	3604.0 VFO LSB	2300	22	10			DQPSK	14x75	2k5	LINK 11 CLEW almost daily
USKA	3604.0 VFO USB	2300	22	10			DQPSK	14x75	2k5	LINK 11 CLEW; almost daily
USKA	3640.0	2155	05	10			F1B	75	250	
USKA	3658.0	2231	02	10		V	A1A			Beacon V
USKA	3710.0 VFO USB	2216	06	10			G1D	2400	~2k4	Stanag 4285; PSK8
USKA	3738.0	2301	22	10			F1B	75	250	often
USKA	3744.5	2142	12	10			J7D	12x120	2k7	BPSK; CIS12
USKA	3745.0	2219	10	10			J7D	12x120	2k7	BPSK; CIS12
USKA	3762.0	2219	06	10			J7D	12x120	2k7	BPSK; CIS12
USKA	6998.0	2159	05	10			H3E-U Bursts		~3k6	"Buzzer" up to ≥7001.5kHz daily
USKA	7000.0	0943	05	10			PSK8	2400	~2k4	MIL188-110A; short bursts only
USKA	7020.0	2154	06	10			F1B	75	250	often
USKA	7050.0	2104	12	10			MFSK8	125	1750	MIL 188-141A
USKA	7090.0	2123	18	10			OTHR	50 sps	~13k	OTHR; occup. BW appx 30k
USKA	7091.486	2219	02	10	KAZ	V	A1A			Beacon V; with some spurious. daily
USKA	7114.0	1528	05	10			J7D	12x120	2k7	BPSK; CIS12
USKA	7120.0	1534	05	10	SOM		A3E		10k	Radio Hargaysa almost daily
USKA	7123.88	2201	06	10			F1B	75	500	
USKA	7145.0	1538	05	10			Noise		>20k	Jammer
USKA	7146.557	1538	05	10			A3E		10k	BC, jammed
USKA	7174.989	1531	05	10	ERI	VOBM	A3E		10k	BC; voice of the broad masses
USKA	7175.0	1531	05	10			Noise		>15k	Jammer
USKA	7178.0	2128	15	10			OTHR	50 sps	~13k	OTHR; occup. BW appx 30k
USKA	7184.992	1637	12	10	ERI	VOBM	A3E		10k	BC; voice of the broad masses
USKA	7185.0	1637	12	10			Noise		>15k	Jammer
USKA	7200.0	1522	05	10			A3E		~10k	BC, lower sideband down to 7195
USKA	14008.0	0915	05	10			F1B	50	500	
USKA	14026.0	0921	05	10			J7D	12x120	2k7	BPSK; CIS12
USKA	14111.0	1105	04	10			FMOP	10 sps	~10k	OTHR; only short period
USKA	14114.0	0931	16	10			OTHR	50 sps	~13k	OTHR; occup. BW appx 30k
USKA	14116.0	1352	10	10			F1B	75	250	
USKA	14132.0	1332	10	10			F1B	75	250	
USKA	14180.0	1257	03	10		RDL	F1A		200	Letters and figures often
USKA	14180.0	1258	03	10		RDL	F1B	36 50	200	CIS 36-50 almost daily
USKA	14192.0	1302	03	10			F1B	50	200	
USKA	14201.8	1112	04	10			BPSK	16x75	2k2	Burst system; 16 tones, 2 Pilottones when idling short dots every 0.725s
USKA	14240.0	0739	12	10			F1B	75	250	
USKA	14280.0	0734	12	10			F1B	75	250	

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	18080.0	0718	12	10	TWN	SOH	A3E		appx 9k	BC: Sound of Hope often
USKA	18107.0	1010	03	10		RDL	F1B	36 50	200	CIS 36-50
USKA	18107.0	1020	03	10		RDL	F1A		200	CIS 36-50; letters and figures
USKA	29249.90	1253	17	10			F1B	81.92	140	Datawell buoy; Canary Isl
USKA	29449.85	1238	17	10			F1B	81.92	140	Datawell buoy; El Ajún

### Veron – Netherlands – PA2GRU (Dick)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
VERON	3524,0	18.30	10	10		UiPTR	F1B			Ptr
VERON	3544,0	17.30	19	10		UiPTR	F1B			Ptr
VERON	3548,0	19.42	13	10		UiPTR	F1B			Ptr
VERON	3568,0	19.48	6	10		UiPTR	F1B			Ptr
VERON	3591,0	17.20	7	10		UiPTR	F1B			Ptr
VERON	3619,0	17.32	19	10	CIS	UiCW	A1A			5F
VERON	3619,0	17.35	19	10	CIS	NKKE	A1A			Pbl 249 37 19 2025 249 K
VERON	3630,5	19.52	3	10	CIS	V	A1A			V-beacon
VERON	3631,0	19.51	3	10		UiCW	A1A			Dotter
VERON	3640,0	19.47	6	10		UiPTR	F1B			Ptr (also 7/10 17.21 UTC)
VERON	3716,0	19.45	6	10	CIS	UiCW	A1A			5F (ending 477 K)
VERON	3797,0	19.40	6	10	RUS	RCV	A1A			RIC87 de RCV QTC 164 Prip Noworossijsk
VERON	3797,0	19.30	13	10	RUS	RCV	A1A			RKZ de RCV QTC 989 Chtormowoe pred.
VERON	7020,0	19.37	6	10		UiPTR	F1B			Ptr
VERON	7054,0	17.40	8	10		UiBC	J3e-U			music and speech Russian language
VERON	7076,0	17.26	15	10		UiPTR	F1B			Ptr
VERON	7080,0	19.44	3	10	CIS	UiPTR	F1B			Revs/Ptr
VERON	7140,0	15.27	30	10	ETH?	UiJam			20k	White noise emissions
VERON	7162,0	08.33	21	10		UiPTR	F1B			Ptr
VERON	10131,0	08.28	19	10		UiPTR	F1B			Ptr
VERON	14008,0	11.41	7	10	CIS	UiPTR	F1B			Carrier/Revs/Ptr (also 19/10 08.33 UTC)
VERON	14115,0	09.51	16	10	RUS	UIRadar	FMCW		15k	OTHR; 50sps
VERON	14116,0	14.50	10	10		UiPtr	F1B		250	
VERON	14116,0	08.46	10	10		UiPTR	F1B			Ptr
VERON	14132,0	10.12	10	10	RUS	UiPtr	F1B			Ptr. Long period till 14.48 utc
VERON	14132,0	08.45	10	10		UiPTR	F1B			Ptr
VERON	14136,0	12.37	7	10		OTHR	FMCW			radar
VERON	14174,0	11.33	30	10	RUS	UiRadar	FMCW		10k	OTHR; 10sps; bursts
VERON	14177,0	07.13	10	10	?	5LT8	A1A			CAPB DE 5LT8 452 34 10 1000 BT ZQV
VERON	14177,0	07.13	10	10	?	5LT8	A1A			563 BT (5BL)
VERON	14177,0	07.40	10	10	?	5LT8	A1A			NN8Z DE 5LT8 (proc)
VERON	14177,0	07.40	10	10	?	NN8Z	A1A			5LT8 DE NN8Z (proc)
VERON	14177,0	07.43	10	10	?	5LT8	A1A			D4Q4 DE 5LT8 QTC 438 34 10 1035 438 BT
VERON	14177,0	07.43	10	10	?	5LT8	A1A			ZMW 573 BT (5BL)
VERON	14177,0	11.43	7	10	CIS	UiCW	F1A			5BL (ending 074 K)
VERON	14177,0	12.07	7	10	CIS	5LT8	A1A			Calls to: CAPB 6JQQ
VERON	14177,0	09.47	10	10	CIS	NN8Z	A1A			5LT8 de NN8Z QTC 220 5F (simplex)
VERON	14177,0	08.24	13	10	CIS	TVKM	A1A			KZNW de TVKM ZOJ ZLZ K
VERON	14177,0	08.28	13	10	CIS	TVKM	A1A			Calls to: D1PK 8US6 FSK8
VERON	14177,0	12.51	13	10	CIS	TVKM	A1A			KAAN QTC 112 34 13 1545 112 5BL AR
VERON	14177,0	12.56	13	10	CIS	TVKM	A1A			FSK8 de TVKM QTA nr 112
VERON	14180,0	16.55	12	10	RUS	?	F1B	50	200	revs, ptr
VERON	14180,0	17.05	12	10	RUS	RDL	F1A		200	RDL 41477 (etc six 5F)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
VERON	14180,0	07.43	7	10	RUS	UiPtr	F1B			Ptr
VERON	14180,0	10.40	29	10	RUS	UIPtr	F1B		200	
VERON	14180,0	20.43	29	10	RUS	UiPtr	F1B		200	
VERON	14180,0	11.17	30	10	RUS	UiRadar	FMCW		10k	OTHR; 10sps; bursts
VERON	14180,0	12.33	30	10	RUS	UiPtr	F1B		200	
VERON	14180,0	17.02	3	10	CIS	UiPTR	F1B			Revs/Ptr (also 7/10 11.53 UTC)
VERON	14180,0	12.17	7	10	RUS	RGT77	F1A			XXX RGT77 79568 85929 TOKO.ROL 4321
VERON	14180,0	12.26	7	10	CIS	WEGI	F1A			XXX WEGI 46890 27186 PIITZEK 9998
VERON	14180,0	09.10	10	10	RUS	RDL	F1A			XXX RDL 94424 23230 BAROFAG 3737
VERON	14180,0	13.27	10	10	RUS	RDL	F1A			RDL 29666 90519 K
VERON	14180,0	09.57	27	10	CIS	WEGI	F1A			UUU XXX 13788 83747 GNUSNOSTX
VERON	14192,00	09.00	24	10	RUS	?	F1B	50	250	revs,ptr
VERON	14192,0	12.39	30	10	RUS	UiPtr	F1B		250	Idling
VERON	14192,0	11.52	7	10	CIS	UiPTR	F1B			Revs/Ptr (also 13/10 14.08 21/10 08.38)
VERON	14280,0	10.05	11	10		OTHR	FMCW			radar
VERON	18060,0	13.07	6	10		OTHR	FMCW			radar
VERON	18107,0	08.49	10	10	CIS	UiPTR	F1B			Revs/Ptr
VERON	18107,0	08.50	10	10	RUS	RDL	F1A			RDL 69530 34196 K (is allowed)
VERON	21384,0	11.04	8	10	Maroc	UiILL	J3e-U			Maroc fishery
VERON	21438,0	08.46	10	10	RUS	RCV	A1A			RGX94 DE RCV QTC 945 32 9 1347 945
VERON	21438,0	08.46	10	10	RUS	RCV	A1A			BT NAWIP (etc)
VERON	21438,0	08.57	10	10	RUS	RJV	A1A			XXX RJV 94424 23230 BAROFAG 3737
VERON	21438,0	09.04	10	10	RUS	RCV	A1A			RGX94 de RCV QTC 944 Nawip 034
VERON	21438,0	09.24	10	10	RUS	RCV	A1A			RGX94 de RCV QTC 935 Nawip 037
VERON	21438,0	09.36	10	10	RUS	RCV	A1A			RBE86 de RCV QTC 750 Nawip 038
VERON	21438,0	08.31	20	10	RUS	RCV	A1A			RGX94 de RCV QTC 969 Nawip 036
VERON	21438,0	08.38	20	10	RUS	RCV	A1A			RIP90 de RCV QTC 301 Nawip 033

# The monitoring team of IARU Region 1

credits:

**Wavecom Elektronik – Buelach – Switzerland**

**German BNetzA Konstanz**

**Many thanks for your interest!**

compiled and published by DK2OM

**November 2016**