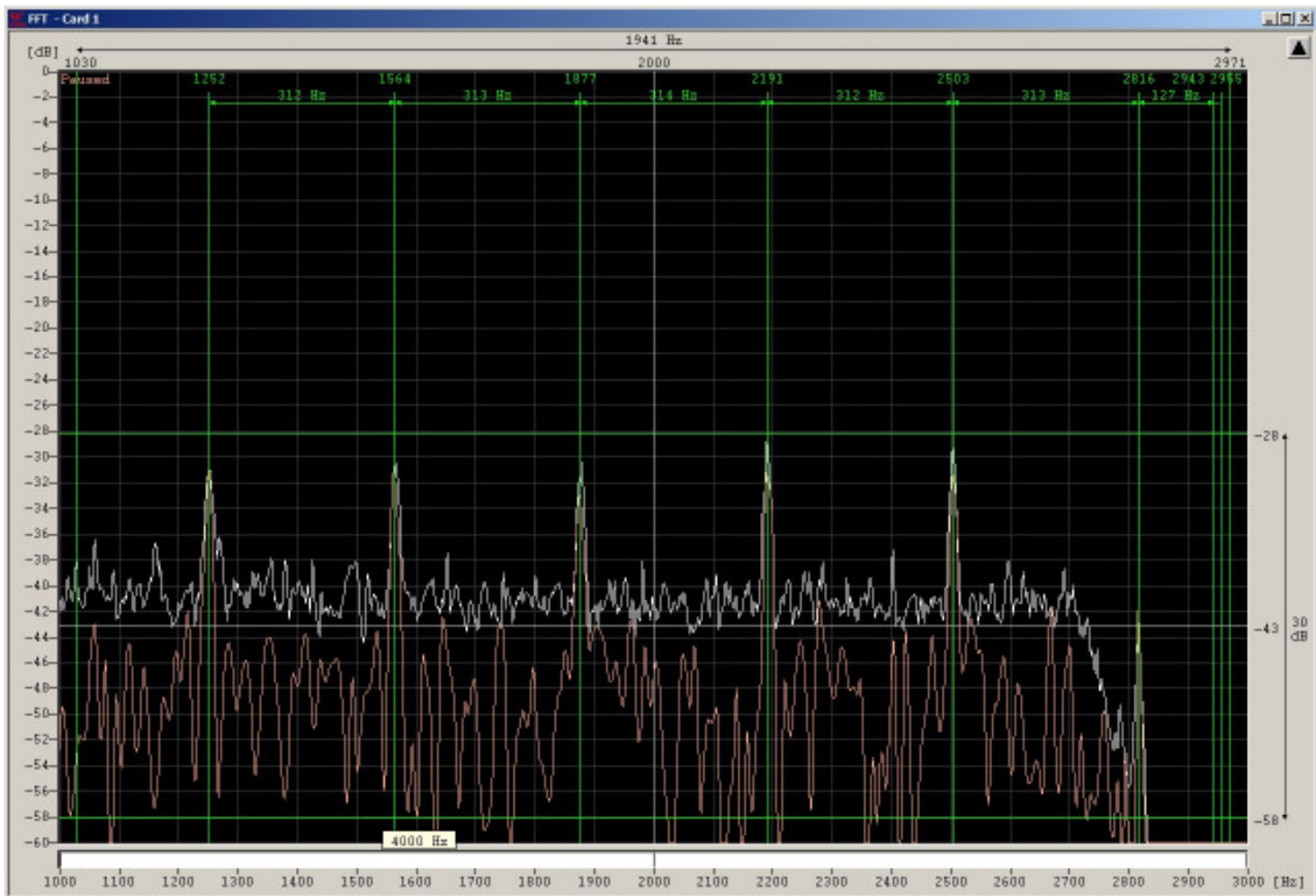




# Part 1: News and Infos

## 1. IRAN radars on 10 m – very active

Iranian radars were very active on our 10 m-band every day. On 28860 kHz we could daily receive the strong and long lasting signals. Other frequencies were used in jumping mode. Screenshot with Wavecom W-Code: Measuring the sweeprates with the tuning cursor (313 sps = PRF 313) on FFT-mode



## 2. Sporadic E and Russian taxis

We found Russian taxis again during Sporadic E periods, especially on 28035 and 28195 on FM as usual.

## 3. Driftnet buoys still flooding the 10 m-band

Many driftnet fishery buoys were heard again on 28000 – 28500 kHz, mostly transmitting a carrier followed by a CW-ident. Few Enagal-GPS buoys were observed, too.

## 4. Brazilian CBers on 10 m – no change

Brazilian CBers are still abusing 28000 – 28335 kHz on AM as expected.

## 5. 14295 kHz – harmonic from Radio Tajik off

The harmonic transmission from Radio Tajik on 14295 kHz was no longer active. The reason is unknown.

## 6. Radio Hargeisa on 7120 kHz – defective transmitter

Radio Hargeisa (Somalia) was not on air for several weeks. The transmitter seemed to be defective. We did not miss the transmissions.

## 7. Radio Eritrea and Radio Etiopia now QRT on 40m?

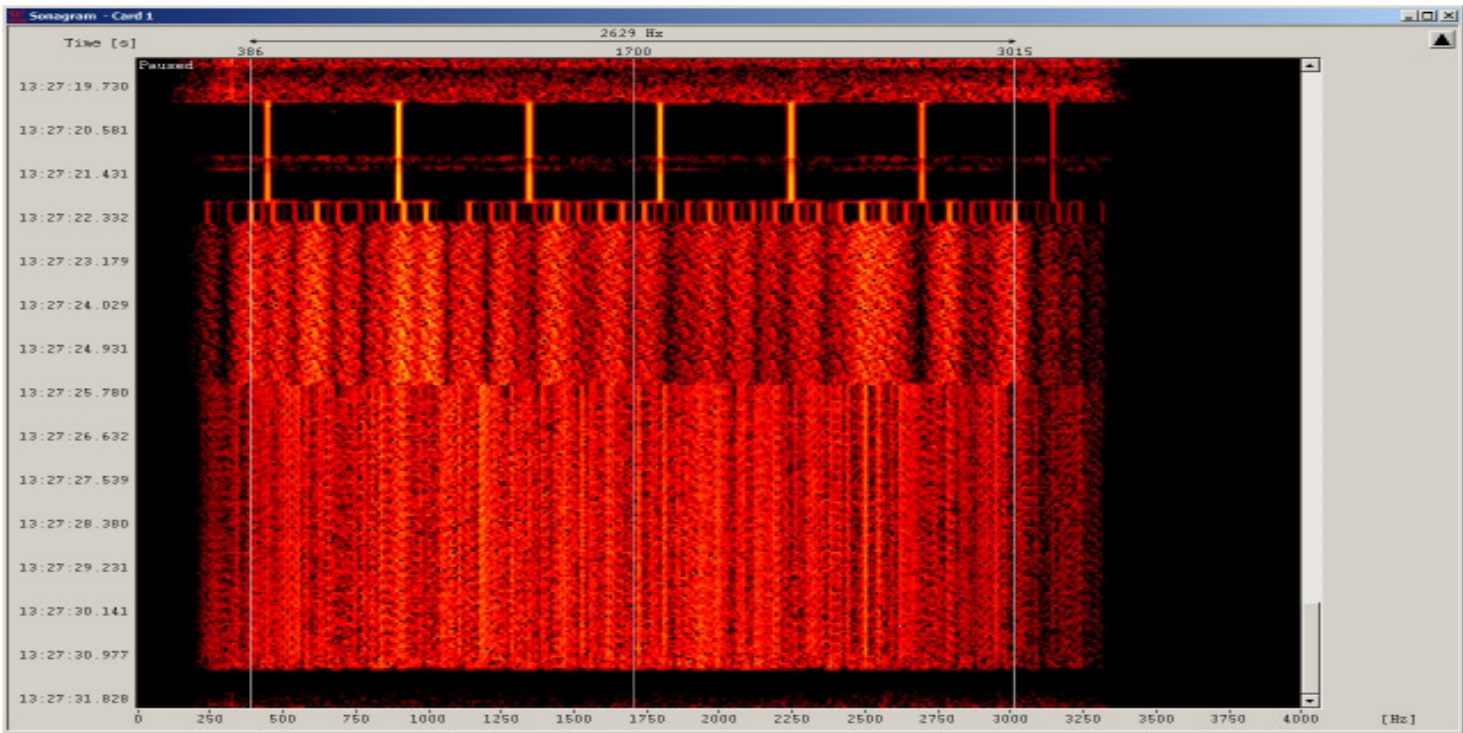
The enemy neighbors decided to finish their hostile neighborhood as I have been told by CT2IWW. So we hope that the BC-war on 7140 and 7180 is stopped now.

## 8. Beacon "P" on 7138.8 kHz – few days on air

The Russian cluster beacon "P" appeared on May 30<sup>th</sup> on 7138.8 kHz on CW. Location: Kaliningrad

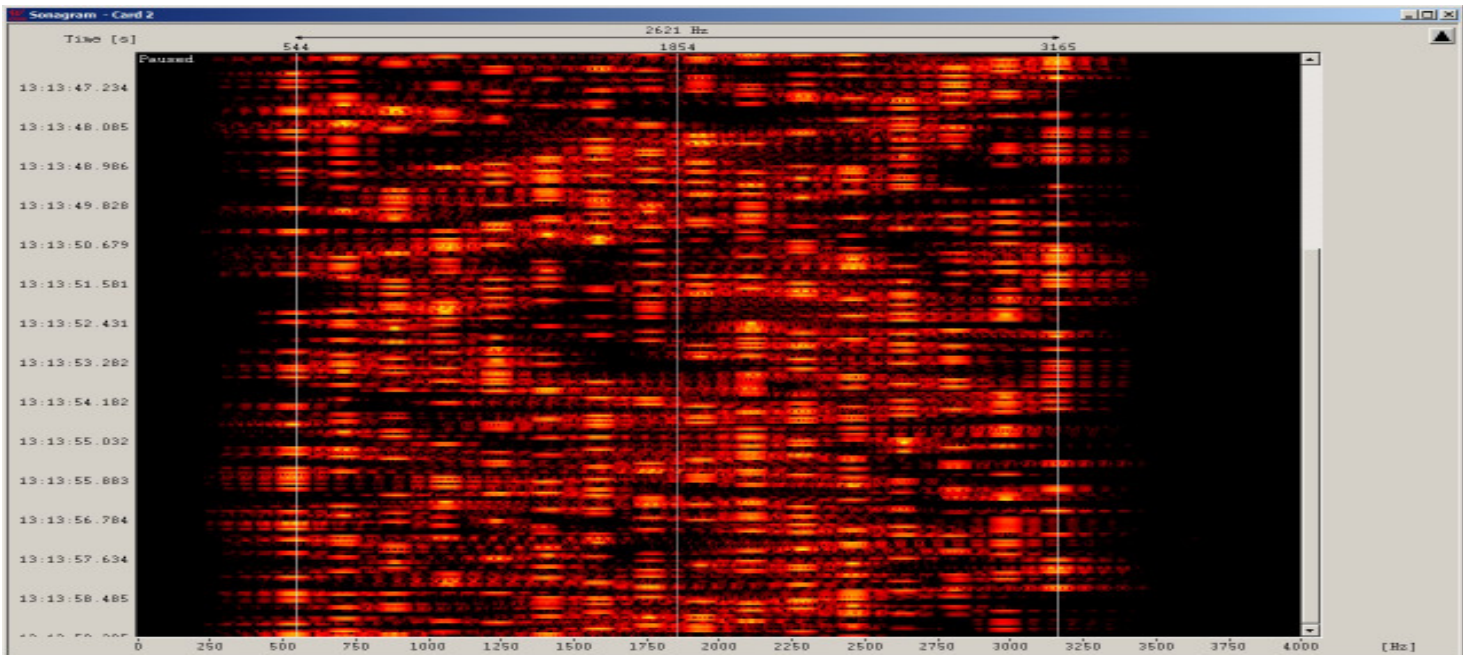
### 9. Hybrid modem from Israel on 14000 kHz

The Israel Navy transmitted on 14000 kHz (USB) using the hybrid modem (6 pre-carriers - PSK4 parallel and MIL-188-110A modified) for few days. Sonogram with Wavecom W-Code



### 10. 13998.0 kHz (USB) – MFSK 16 tones from Russia

We observed a MFSK 16 signal on 13998.0 kHz (USB) up to 14001.165 kHz on May 31<sup>st</sup>. Location: area of Moscow - screenshot: Wavecom W-Code sonogram



### 12. Miscellaneous news:

- 3500, 3535, 3550, 3590, 7000 kHz – USB – Spanish fishermen daily
- 5350.0 kHz – USB – Spanish fishery – splattering up to 5353.0 kHz
- 7120.0 kHz – Radio Hargeis Somalia – now off - defective
- 7140.0 kHz and 7180 kHz – Radio Eritrea and white noise QRM by Radio Ethiopia – finished now?
- 28000.0 – USB – pirate meeting point

- 13. Homepage IARU Region 1
- Homepage IARUMS Region 1
- Homepage IARUMS Region 2
- Homepage IARUMS Region 3
- Intruderlogger Region 1
- ITU-Monitoring Reports

- <http://www.iaru-r1.org/>
- <http://www.iarums-r1.org>
- <http://www.iaru-r2.org/>
- <http://iaru-r3.org/iaru-region-3-monitoring-system-newsletter/>
- <http://peditio.net/intruder/bluechat.cgi>
- <http://www.itu.int/en/ITU-R/terrestrial/monitoring/Pages/Regular.aspx>

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

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

### RSK – Kenya – 5Z4BV (Kamweti)

Soc	kHz	UTC	dd	mm	ITU	Identity	Mode	Details
RSK	6999	vt	occasional	5	Tanzania/ E.Africa	?	J3E-u	Mil Kiwahili message net
RSK	7033	vt	occasional	5	E. Africa/ S. Sudan?	?	J3E-l	Vernacular
RSK	7040	vt	occasional	5	E. Africa	?	J3E-u	Vernacular
RSK	7044	0725	8	5	E. Africa/ S. Sudan?	?	J3E-u	Vernacular msg. net
RSK	7048	am/pm	occasional	5	E. Africa	?	J3E-u	Mil Kiwahili /vernacular net
RSK	7048	1533	9	5	E. Africa	?	J3E-l	Mil Kiswahili msg. net
RSK	7055	1823	30	5	Eastern Europe	?	J3E-l	Rebroadcast of a political message
RSK	7070	1325	occasional	5	E. Africa	?	J3E-l	Kiswahili net
RSK	7075	0550	occasional	5	Ethiopia	?	J3E- l/u	Amharic net
RSK	7080	1415	29	5	Kenya	?	J3E-l	Swahili QSO security company
RSK	7089,1	vt	nr dly	5	Central Africa?	?	J3E- l/u	Mil French/vernacular msg. net
RSK	7100	0725	10	5	E. Africa	?	J3E-l	Vernacular QSO
RSK	7120	vt	nr dly	5	Somaliland	Radio Hargeisa	A3E	Broadcast
RSK	7140	vt	nr dly	5	Eritrea	VOB	A3E	Broadcast
RSK	7148	0730	7	5	S. Sudan?	?	J3E-u	Vernacular net
RSK	7169	1345	5	5	E./Central Africa?	?	J3E-l	Swahili QSO net
RSK	7180	vt	nr dly	5	Radio Eritrea	VOB	A3E	Broadcast, occasional QSY 7181.55kHz

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

DG0JBJ (Mario) observed 0 OTH radars on 40 m, 0 OTH radars on 20 m, 34 OTH radars on 17m, 5 OTH radars on 15 m and 30 OTH radars on 10 m in May 2018.

### 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	2000	08	05	RUS		USB LSB			14 tones – hyperbolic radio navigation system – BRAS-3/RS- 10 – Kaliningrad – no carrier - daily, all day
DK2OM	1852,0	vt	dly	05	I	IPP	USB			Palermo Radio, weather reports
DK2OM	1855,0	vt	dly	05	I	IQP	USB			San Benedetto Radio, weather reports - daily
DK2OM	1876,0	vt	dly	05	I	IQN	USB			Lampedusa Radio, weather reports - daily

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	1888,0	2000	19	05	I	IPD	USB			Civitavecchia Radio, weather reports - daily
DK2OM	1896,5	ady	dly	05	D		PSK8	2400	2400	Stanag4285 – 600 bps long – German Navy – daily, all day
DK2OM	1925,0	2000	19	05	I	IPL	USB			Livorno Radio, weather reports - daily
DK2OM	3500,6	1828	08	05	CIS		A3E			CIS pirates – unstable carrier
DK2OM	3503,5	vt	dly	05	G	no ITU	FSK8	125	1750	ALE – “XSS” “XPU” “XJR” – British MIL Tascomm – vt, daily - legal!
DK2OM	3505,6	1946	18	05	CIS		A3E			CIS pirates – unstable carrier
DK2OM	3517,3	2000	11	05	E		LSB			Galician fishery – talking about “barco” – ship noise in the background
DK2OM	3520,0	1730	05	05	E		USB			Spanish fishery
DK2OM	3525,0	---	--	05	F		PSK4	75	5800	LINK11-CLEW on both sidebands (5800 Hz wide) – area of Marseille – legal!
DK2OM	3527,0	2012	03	05	RUS		F1B	50	200	Severomorsk - daily
DK2OM	3531,0	2040	08	05	RUS	REA4	N0N			unclean carrier - RUS airforce Moscow, ident: full hour + 40 min - daily
DK2OM	3532,0	---	--	05	F		PSK4	75	5800	LINK11-CLEW on both sidebands (5800 Hz wide) – area of Brest – legal!
DK2OM	3544,0	2100	15	05	CIS		A3E			CIS pirates – unstable carrier
DK2OM	3544,0 RF	2107	15	05	ISR		PSK4A PSK8	75 2400	2600 2400	hybrid modem – PSK4 parallel and PSK8 serial – ISR Navy Haifa – shared band !
DK2OM	3550,0	0730	dly	05	F		A3E			French amateurs not respecting bandplans – every morning
DK2OM	3550,0	vt	vd	05	ALG	no ITU	FSK8	125	1750	ALE, “IU50” “IU52” “FN50”
DK2OM	3550,7	---	--	05	ISR		PSK4 PSK8	75 2400	2400 2400	hybrid modem – ISR Navy – PSK4 parallel and PSK8 serial - legal operation!
DK2OM	3553,8	ady	dly	05	TUR		PSK8	2400	2400	Stanag4285 – 600 bps long -TUR MIL - Ankara – daily, all day - legal operation
DK2OM	3555,0	2032	07	05			USB			man in Russian voice
DK2OM	3559,0	2045	03	05	E		USB			Spanish fishery
DK2OM	3560,0	0900	11	05	E		USB			Spanish fishery
DK2OM	3576,6	ady	dly	05	I	IZ3DVW	A1A			3576.550 - uncoordinated beacon – disturbing JT65
DK2OM	3585,0	ady	dly	05	TWN	HLL	F1C		800	WX-fax Taiwan - 120 rpm, IOC 576 - daily, all day - legal!
DK2OM	3585,0	2039	04	05	E		USB			Spanish fishery
DK2OM	3587,0	vt	vd	05	E	no ITU	FSK8	125	1750	ALE, “TVV” “TXX” - Spanish Guardia Civil
DK2OM	3593,3 RF	1920	09	05	HRV		PSK8A	2400	2400	Stanag-4285 – 600 bps – Adriatic Region
DK2OM	3593,7	---	--	05	RUS	D	A1A			Cluster beacon – Sevastopol RUS Navy – “RCV”
DK2OM	3593,8	---	--	05	RUS	P	A1A			Cluster beacon – Kaliningrad RUS Navy – “RMP”
DK2OM	3593,9	---	--	05	RUS	S	A1A			Cluster beacon – Severomorsk RUS Navy – „RIT“
DK2OM	3594,0	---	--	05	RUS	C	A1A			Cluster beacon C - Moscow RUS Navy - “RIW”
DK2OM	3594,0 RF	1940	17	05	ISR		PSK4A PSK8	75 2400	2600 2400	hybrid modem – 6 pre-carriers PSK4 parallel and MIL-188-110A modified – ISR Navy – shared band!
DK2OM	3594,2	---	--	05	RUS	F	A1A			Cluster beacon F - Vladivostok RUS Navy - “RJS”
DK2OM	3595,0	---	--	05	RUS	K	A1A			Cluster beacon - Petropavlovsk Kamchatskiy - RUS Navy -

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										Pacific fleet - "RCC"
DK2OM	3596,0	vt	dly	05	J		FSK8	125	1750	ALE, "JH1ESB" – 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	F1C		800	Tokyo Meteo – 120 rpm – IOC 576 – daily, all day - legal!!!
DK2OM	3649,0	vt	vd	05	ALG	no ITU	FSK8	125	1750	ALE, "BI20" PA20"
DK2OM	3745,5	---	--	05	RUS	RMP	A1A			encrypted figure groups – Kaliningrad – ident "RMP" – Navy Kaliningrad
DK2OM	3756,0	1800	dly	05	RUS		A3E			RUS MIL – channel marker – Tuapse – East Black Sea – night QRG – daily – even audible in Japan
DK2OM	5350,0	1955	12	05	E		USB			Spanish fishery – splattering up daily – various times
DK2OM	5361,8 RF	vt	vd	05	DNK	OUA15	PSK8A	2400	2400	Stanag-4285 – 600 bps long – assigned to Danish Navy Aarhus - legal – primary user !
DK2OM	6998,5	--	--	05	POL		FSK8  USB	125	1750	MIL-188-141A – "BU2" "OD6" "OL1" "SZ4" "ZE2" "MA3" until 7001.0 kHz – also voice traffic male and female - Polish MIL
DK2OM	7000,0	vt	dly	05	INS		USB LSB			Indonesian pirates – singing children meetings
DK2OM	7000,0	2110	04	05	E		USB			Spanish fishery
DK2OM	7000,0	1938	06	05	RUS		PSK2A	120	2600	AT3004D – Moscow – also 30.05. at 1910 utc
DK2OM	7005,0	vt	dly	05	INS		LSB			Indonesian pirates - singing
DK2OM	7008,0	0750	08	05	RUS		F1B	75	250	Smolensk
DK2OM	7010,0	vt	vd	05	ALB	no ITU	FSK8	125	1750	ALE, "RS0" - Tirana
DK2OM	7010,0	vt	dly	05	INS		LSB			Indonesian pirates
DK2OM	7015,0	vt	dly	05	INS		LSB			Indonesian pirates
DK2OM	7018,0	---	--	05	RUS	REA4	F1B	100	800	mostly idling – Russian airforce Moscow – ident at full hour + 41 min. on F1A
DK2OM	7020,0	vt	vd	05	ALB		FSK8	125	1750	ALE, "CS004A" "RS004D" "CS004" - daily
DK2OM	7020,0	vt	dly	05	INS		USB LSB			Indonesian pirates
DK2OM	7020,0	0839	06	05	RUS		F1B	75	250	Kaliningrad
DK2OM	7025,0	vt	dly	05	INS		LSB			Indonesian pirates
DK2OM	7027,0	0804	23	05	RUS		PSK4B	120	2600	AT3104D - Kaliningrad
DK2OM	7027,5	---	--	05	UKR	„V“	A1A			beacon "V" – Kyiv
DK2OM	7032,0	1822	28	05	RUS		PSK4B	120	2600	AT3104D – Moscow
DK2OM	7035,0	vt	dly	05	INS		LSB			Indonesian pirates – playing music and talking about telephone
DK2OM	7038,8	1700	30	05	RUS	P	A1A			Cluster beacon „P“ – Kaliningrad RUS Navy – "RMP"
DK2OM	7039,0	---	--	05	RUS	C	A1A			Cluster beacon „C“ - Moscow RUS Navy - "RIW"
DK2OM	7039,2	---	--	05	RUS	F	A1A			Cluster beacon „F“ - Vladivostok RUS Navy - "RJS"
DK2OM	7039,3	---	--	05	RUS	K	A1A			Cluster beacon "K" Petropavlovsk Kamchatskiy - RUS Navy - Pacific fleet - "RCC" - daily
DK2OM	7039,4	---	--	05	RUS	M	A1A			Cluster beacon „M“ – Magadan RUS Navy – „RTS“ - daily
DK2OM	7040,0	ady	dly	05	I		A1A			IZ3DVW – uncoordinated and unwanted beacon
DK2OM	7040,0	vt	dly	05	INS		USB LSB			Indonesian pirates
DK2OM	7040,5	vt	dly	05	HRV		FSK8	125	1750	ALE, "9A5EX" "9A0ALE" –

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										just for info
DK2OM	7049,5	vt	dly	05	HRV G F	9A0ALE M1DFO F6BAZ	FSK8	125	1750	Amateur ALE, just for info! daily – various times
DK2OM	7050,0	vt	dly	05	KGZ		FSK8	125	1750	ALE, “X” “810” “820615” “810698” – Kyrgyzstan MIL
DK2OM	7070,0	vt	vd	05	GEO	no ITU	FSK8	125	1750	ALE, “MV” “244” “686” “334” “204” “571” – daily active
DK2OM	7088,8	vt	vd	05	S	SL0FRO	A1A			7088.830 kHz - cw-trainee, Sweden - SL0FRO - just for info!
DK2OM	7089,8	---	--	05	TUR CYP		PSK8	2400	2400	Link11 - SLEW – aircraft – west of Cyprus
DK2OM	7099,5	vt	dly	05	HRV	9A0ZG	FSK8	125	1750	ALE, “9A0ZG” “9A5EX1P” “9A0OS” – daily - just for info!
DK2OM	7102,0	vt	dly	05	TWN		FSK8	125	1750	ALE, “BV4AS” – just for info!
DK2OM	7102,0	vt	vd	05	HRV SUI D	9A0MIL	FSK8	125	1750	ALE, “9A3MIL” “9A2KS” “HB9MHB” “9A0ZG” “9A4OS” “DK0ESD” – just for info!
DK2OM	7102,0	vt	dly	05	J		FSK8	125	1750	ALE, “JH1ESB” – just for info!
DK2OM	7104,8	1944	06	05	AUS		F1B	100	170	Codan selcal – “6666 – 5244”
DK2OM	7107,8	1923	06	05	AUS		F1B	100	170	Codan selcal – “1111 – 6666 – 0100 – 3346 – 0646 – 3332 – 8630 – 1110 – 4515”
DK2OM	7110,0	vt	dly	05	HRV	9A0ALE	FSK8	125	1750	ALE, “9A0ALE” – just for info
DK2OM	7111,0 LSB	vt	28	05	CHN		PSK4A	60	2350	burst system “PRC-30” – 30 tones – 450 Hz pilot tone
DK2OM	7113,8	1930	06	05	AUS		F1B	100	170	Codan selcal – “3333 – 0405 – 0254 – 0087 – 0000 – 4403”
DK2OM	7117,0	---	--	05	RUS	REA4	F1B	100	1000	mostly idling – Russian airforce Moscow – ident on CW at 1640 utc on the mark-QRG
DK2OM	7119,0	1922	14	05	FEa		FMOP		32k	Codar like ocean surface radar 2.6 sps – 7119 – 7151 kHz
DK2OM	<b>7120,0</b>	<b>---</b>	<b>--</b>	<b>05</b>	<b>SOM</b>		<b>A3E</b>		<b>9k</b>	<b>Radio Hargeisa – Somalia – transmitter defective</b>
DK2OM	7120,0 LSB	vt	06	05	CHN		PSK4A	60	2350	burst system “PRC-30” – 30 tones – 450 Hz pilot tone
DK2OM	7120,0	2018	09	05	FEa		FMOP		64k	Far East coastal radar “Sunflower” – 7120 – 7184 kHz – 43 sps
DK2OM	7134,8	2122	04	05	AUS		F1B	100	170	Codan selcal – “3921 – 1454 – 2222 – 10001 – 0022 – 6421 – 6775 – 9431 – 3333 – 4300 – 4316 - 4917”
DK2OM	7137,0	vt	dly	05	TWN		FSK8 LSB	125	1750	ALE, “EDKLT” “EVSNG” “ECCLT” “EFNGX” “EVNNM” “EVWRK” “EGFXA” “ECQUY” “EFYMO” “EWPEN” “ECXKF” “EWRAJ” “ECHTD” “EUIQE” Taiwanese navy
DK2OM	7138,0	vt	24	05	FEa		FMOP		32k	Codar like ocean surface radar 2.6 sps – 7138 – 7170 kHz
DK2OM	<b>7140,0</b>	<b>1700</b>	<b>dly</b>	<b>05</b>	<b>ERI ETH</b>		<b>A3E</b>		<b>9k</b>	<b>7140.024 kHz - Radio Eritrea disturbed by Radio Ethiopia by white noise emissions - daily</b>
DK2OM	7140,8	2114	05	05	AUS		F1B	100	170	Codan selcal – “0088 - 3700
DK2OM	7143,8	2142	06	05	AUS		F1B	100	170	Codan selcal – “88124 – 5636 – 8888 – 4080 – 12683 – 9135 – 2634 – 1033 - 11091”
DK2OM	7146,0	0730	02	05	RUS		PSK2A	120	2600	AT3004D - Sevastopol
DK2OM	7160,8	2027	12	05	NOR		PSK4	75	2300	7159.0 RF - LINK11-CLEW – area of Norway – ship?


DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	7162,0	1946	07	05	FEa		FMOP		32k	Codar like ocean surface radar 2.6 sps – 7162 – 7194 kHz
DK2OM	7167,0	0707	12	05	RUS		F1B	75	250	Moscow
DK2OM	7170,0	1820	10	05	RUS		PSK2A	120	2600	AT3004D - Vladimir
DK2OM	7178,0	1300	01	05	RUS		PSK2A	120	2600	AT3004D - Kaliningrad
DK2OM	<b>7181,6</b>	<b>1700</b>	<b>vd</b>	<b>05</b>	<b>ERI ETH</b>		<b>A3E</b>		<b>9k</b>	<b>7181,555 kHz - Radio Eritrea disturbed by Radio Ethiopia by white noise emissions - daily</b>
DK2OM	7181,9	1858	19	05	RUS		N0N			Petrozavodsk – long lasting
DK2OM	7183,0	vt	dly	05	SUI		FSK8	125	1750	ALE, “HB9MHB” – just for info!
DK2OM	7185,5	vt	dly	05	J TWN		FSK8	125	1750	ALE, “BV4AS” “JH1ESB” - just for info - daily
DK2OM	7198,0	1737	16	05	RUS		PSK2A	120	2600	AT3004D - Penza
DK2OM	<b>7200,0</b>	<b>---</b>	<b>--</b>	<b>05</b>	<b>MMR</b>		<b>A3E</b>		<b>9k</b>	<b>Myanmar Radio</b>
DK2OM	7200,0	0830	28	05	RUS		PSK2A	120	2600	AT3004D – 7198.7 – 7201.3 kHz - Kaliningrad
DK2OM	10100,8	ady	dly	05	D		F1B	50	450	Baudot - German Weatherservice – legal!
DK2OM	10102,9	0750	23	05	RUS		N0N			Moscow
DK2OM	10108,0	1409	18	05	RUS		F1B	50	200	CIS-50-50 - Moscow
DK2OM	10110,0	vt	dly	05	SNG	no ITU	FSK8	125	1750	ALE, “CN6” “68” – Singapore Navy - Changi Naval Base
DK2OM	10113,0	vt	vd	05	TUN	no ITU	FSK8	125	1750	ALE, “TUD” “STAT5” “STAT154”
DK2OM	10114,0	vt	dly	05	ALG	no ITU	FSK8	125	1750	ALE, “BSF” “ZEN” “CM2OR2”
DK2OM	10114,8	0640	dly	05	RUS		F1B	100	1000	CIS14 – Moscow
DK2OM	10115,0	2035	19	05	MRC	no ITU	FSK8	125	1750	ALE, “100” “114” “203” “XXZ” – West Sahara
DK2OM	10118,0	1624	24	05	RUS		F1B	75	250	south of Moscow
DK2OM	10120,0	vt	dly	05	ALG	no ITU	FSK8	125	1750	ALE, “CM6” “01012016”
DK2OM	10120,0	1440	09	05	RUS		PSK2A	120	2600	AT3004D – traffic and submode idle - Jekaterinburg
DK2OM	10123,0	vt	dly	05	ALG	no ITU	FSK8	125	1750	ALE, “CM3” “COF” “BSF” ”CM2” “ESA” – Algerian Airforce
DK2OM	10124,0	vt	dly	05	ALG		FSK8	125	1750	ALE, “OEB” - ALG airforce
DK2OM	10129,0	vt	dly	05	ALG	no ITU	FSK8	125	1750	ALE, “CM1” “CTF” “772”
DK2OM	10136,0	vt	dly	05	ALG	no ITU	FSK8	125	1750	ALE, “CM3” “BLD” “CNC” “TF2”
DK2OM	<b>10144,0</b>	<b>ady</b>	<b>dly</b>	<b>05</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	05		JH1ESB	FSK8	125	1750	ALE, “JH1ESB” - just for info - daily
DK2OM	10145,5	vt	dly	05	TWN AUS	BV4AS	FSK8	125	1750	ALE, “BV4AS” “VK4SAA” – just for info!
DK2OM	13988,0 RF	1310	31	05	RUS		MFSK	65.80	2620	MFSK-16 tones – until 14001.165 kHz – area of Moscow
DK2OM	<b>14000,0</b>	<b>1425</b>	<b>09</b>	<b>05</b>	<b>FEa</b>		<b>USB</b>			<b>Far East pirates - daily</b>
DK2OM	14000,0 RF	1630	15	05	ISR		PSK4A PSK8	75 2400	2600 2400	hybrid modem – 6 pre-carriers - PSK4 parallel and MIL-188- 110A modified – ISR Navy – ship north of Cairo
DK2OM	14006,0	0905	16	05	RUS		PSK2A	120	2600	AT3004D – submode idle - Moscow
DK2OM	14008,0	1045	02	05	RUS		F1B	50	170	Moscow
DK2OM	14083,0	1223	30	05	RUS		PSK2A	120	2600	AT3004D - Moscow
DK2OM	14094,0	vt	vd	05	CHN		FSK8	125	1750	ALE, “AA9 de DD3”
DK2OM	14100,0	vt	dly	05	ALG	no ITU	FSK8	125	1750	ALE, “6206” “6204” “6212” “6202” “6203” “6207” “6217” “MTL” “IJJ” – Mauritanian border – daily, all day
DK2OM	14109,0	vt	dly	05	TWN	HAM	FSK8	125	1750	ALE, “BV4AS” – daily - just for info!
DK2OM	14109,0	vt	dly	05	INS	HAM	FSK8	120	1750	ALE, “YD00XH” – just for info!



DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	14109,0	vt	dly	05	S HRV D		FSK8	125	1750	ALE, "SM3FXL" "9A4OS" "9A3BRV" "DK0ESD" - just for info!
DK2OM	14109,0	vt	vd	05	J		FSK8	125	1750	ALE, "JH1ESB" – just for info
DK2OM	14109,4	0750	12	05	RUS		F1B	600	600	DPRK-FSK 600 – DPRK emba Moscow
DK2OM	14148,,0	1758	31	05	CHN		FMOP		10k	Chinese OTH - radar - 83 sps – 3 sec bursts
DK2OM	14160,0	vt	dly	05	MRC		FSK8	125	1750	ALE, "9204" "9228" "9236"
DK2OM	14171,0	1222	21	05			PSK2A	120	2600	AT3004D – submode idle - Moscow
DK2OM	14192,0	1058	02	05	RUS		F1B	50 75 50 100 100	500 500 200 500 200	RUS navy Kaliningrad - daily
DK2OM	14221,0	2000	03	05	KGZ		F1B	50	200	Bishkek – mostly idling - daily at 2000 utc
DK2OM	14232,0	0843	04	05	CHN		FMOP		10k	Chinese OTH radar – 66.66 sps – 3.8 sec bursts
DK2OM	14240,0	0755	08	05	RUS		F1B	50	250	Tver
DK2OM	14260,0	vt	dly	05	SRB	YU1BI	FSK8	125	1750	ALE, "YU1BI" – just for info!
DK2OM	<b>14260,0</b>	<b>---</b>	<b>--</b>	<b>05</b>	<b>UKR</b>		<b>A3E</b>			<b>female voice with encrypted msgs – figures – "SZRU" = Foreign Intelligence Service of Ukraine in Rivne</b>
DK2OM	14263,0	0905	01	05	RUS		F1B	75	250	Moscow
DK2OM	14292,0	0628	12	05	RUS		A1A			Moscow
DK2OM	14295,0	vt	dly	05	SRB	YU1BI	FSK8	125	1750	ALE, "YU1BI" – just for info!
DK2OM	14300,0 RF	0914	10	05	RUS		OFDM	35.6	2200	OFDM 50 – PSK8B/PSK4A - Moscow
DK2OM	14345,9	vt	dly	05	THA	HS0ZEA	A1A			HS0ZEA beacon – 14345.934 kHz - every 5 minutes – daily - just for info!
DK2OM	14346,0	vt	dly	05	POR		FSK8	125	1750	ALE, "CT2IXQ" just for info – various times, daily
DK2OM	14350,0	0848	04	05	CHN		FMOP		10k	Chinese OTH radar – 66.66 sps – 3.8 sec bursts - foghorn
DK2OM	<b>14351,6</b>	<b>---</b>	<b>--</b>	<b>05</b>	<b>E</b>		<b>OFDM PSK4A</b>	<b>30</b>	<b>2700</b>	<b>OFDM 73 + intro tone – HFD+VL - experimental transmissions – Las Palmas – just for info!</b>
DK2OM	<b>18080,0</b>	<b>0720</b>	<b>02</b>	<b>05</b>	<b>TWN</b>		<b>A3E/BC</b>			<b>Sound of Hope – Taiwan and Chinese BC jammer – daily at 06 utc and later</b>
DK2OM	18100,0	vt	dly	05	MRC	no ITU	FSK8	125	1750	ALE, "A2" "A4" "A5" "A7" "S6" – "C3" "R3" "G401" "CD" "09" "G2" "LG6" "G301" "ELJADIDNET4" - daily, various times
DK2OM	18106,0	vt	vd	05	POR	CT2GOY	FSK8	125	1750	ALE, "CT2GOY" – just for info!
DK2OM	18106,2	vt	dly	05	TWN		FSK8	125	1750	ALE, "BV4AS" – just for info!
DK2OM	18107,0	vt	vd	05	RUS	RDL	F1B	50	200	CIS-50-200 - Moscow – idle and traffic – daily - Russian navy – shared band!
DK2OM	18117,5	---	--	05	POR	CT2IXQ	FSK8	125	1750	ALE, "CT2IXQ" – just for info
DK2OM	18140,0	---	--	05	SRB	YU1BI	FSK8	125	2600	ALE, "YU1BI" – just for info!
DK2OM	18150,0	---	--	05	RUS		F1B	100	1000	harmonic from 9075 (100 Bd, 500 Hz) - Kaliningrad
DK2OM	<b>21000,0</b>	<b>---</b>	<b>--</b>	<b>05</b>	<b>B</b>		<b>USB</b>			<b>Brazilian pirates – Rio de Janeiro with North Brazil – very often</b>
DK2OM	<b>21000,0</b>	<b>---</b>	<b>--</b>	<b>05</b>	<b>SDN</b>		<b>USB</b>			<b>MFA Sudan – Khartoum with emba Yemen – voice traffic</b>
DK2OM	<b>21000,0</b>	<b>0935</b>	<b>31</b>	<b>05</b>	<b>E</b>		<b>USB</b>			<b>Spanish fishery – Galician voice - Port of Santander – reported</b>

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										<b>by Paulo</b>
DK2OM	21002,2	---	--	05	SDN	!0000 !9999 !8888	F1B	100	170	<b>21002.15 kHz - Pactor 1 encrypted – MFA Sudan – Khartoum with emba Yemen</b>
DK2OM	21020,0	0958	16	05	CHN		FMOP		160k	20860 – 21020 kHz - Chinese wideband OTH radar – 10 sps
DK2OM	21031,0	1213	28	05	E		USB			Spanish fishery
DK2OM	21096,0	vt	dly	05	INS	YD00XH	FSK8	125	1750	ALE, “YD00XH3” – daily, various times - just for info!
DK2OM	21096,0	vt	vd	05	G		FSK8	125	1750	ALE, “M1DFO” – just for info!
DK2OM	21145,0	vt	dly	05	MRC	no ITU	FSK8	125	1750	ALE, “A” “B301” “C3”, “IR4” “H4” “IR6” “T4” “E4” “A2” “CD” “K3” “KB2” “J5” “J52” “GR2” “GS4” “R3” “R301” “R33” “R8” “R5” “Y1” “S51” “S3” “S4” “S512” “S552” “G2” “G501” - various times, daily
DK2OM	21145,8	ady	dly	05	I	IZ3DVW	A1A			IZ3DVW beacon – 21145,790 kHz – daily, all day - not coordinated with IARU
DK2OM	21190,0	---	--	05	RUS		F1B	100	1000	harmonic from 10595 kHz - Moscow
DK2OM	21304,0	0827	18	05	CHN		FMOP		160k	Chinese wideband OTH radar – 21304 – 21464 – 10 sps
DK2OM	21340,0	0812	29	05	CHN		FMOP		160k	Chinese wideband OTH radar – 10sps – 21340 – 21500 kHz
DK2OM	21400,0	---	--	05	RUS		F1B	50	2000	harmonic from 5350 kHz – area of Moscow
DK2OM	21414,0	0817	29	05	CHN		FMOP		10k	Chinese OTH radar – 66.66 sps – 3.8 sec bursts - foghorn
DK2OM	21438,0	0836	06	05	RUS	RCV	A1A			RBE86 de RCV - RUS Navy Sevastopol - often
DK2OM	21446,0	ady	dly	05	THA	HS0ZEA	A1A			HS0ZEA beacon – every 5 minutes - just for info!
DK2OM	25000,0	---	--	04	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	05	B		A3E			<b>Brazilian CBers – 28000 – 28325 – daily, all day - no change</b>
DK2OM	28000,0	---	--	05	CIS		F3E			<b>28000 – 29700 numerous CIS taxi nets – no change</b>
DK2OM	28000,0	1945	28	05	F		USB			French CBer – talking to Paris
DK2OM	28010,0	0909	22	05	IRN		AM-pulse		55k	Iranian radar bursts – jumping
DK2OM	28018,0	1004	23	05	IRN		AM-pulse		55k	Iranian radar bursts – 307 sps - jumping
DK2OM	28020,0	1250	28	05	IRN		AM-pulse		55k	Iranian radar bursts – 870 sps - jumping
DK2OM	28025,0	---	--	05	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoy
DK2OM	28035,0	1830	10	05	RUS		F3E			RUS taxi – Moscow - daily
DK2OM	28051,5	---	--	05	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoy
DK2OM	28065,0	0915	05	05	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoy
DK2OM	28075,0	---	--	05	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoy
DK2OM	28085,1	---	--	05	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoy

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	28100,0	1920	06	05	E		F3E			Spanish CBers
DK2OM	28100,0	1622	14	05	I		F3E			Italian CBers
DK2OM	28127,0	1002	23	05	IRN		AM-pulse		55k	Iranian radar bursts – 307 sps - jumping
DK2OM	28146,0	---	--	05	ARG B		FSK8	125	1750	ALE, “LU8EX” “PY2TI” “DLI” – just for info!
DK2OM	28150,0	0907	22	05	IRN		AM-pulse		55k	Iranian radar bursts – jumping
DK2OM	28166,0	1005	23	05	IRN		AM-pulse		55k	Iranian radar bursts – 307 sps - jumping
DK2OM	28195,0	0805	04	05	RUS		F3E			RUS taxi – sporadic E
DK2OM	28212,0	---	--	05	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoy
DK2OM	28215,0	1837	10	05	RUS		F3E			RUS taxi
DK2OM	28235,0	1920	10	05	RUS		F3E			RUS taxi
DK2OM	28275,0	0921	05	05	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoy
DK2OM	28283,0	1007	23	05	IRN		AM-pulse		55k	Iranian radar bursts – 307 sps - jumping
DK2OM	28435,0	----	--	05	E		F1B	81.9	140	<b>Datawell-buoy “Waverider” – 28435.040 kHz – Costa del Sol – Malaga</b>
DK2OM	28459,8	---	--	05	GAB		A3E		1060	carrier and dots in USB and LSB, bursts every 60 sec – carrier – Gabon - daily
DK2OM	28499,8	---	--	05	MEa		F1B	81.9	140	<b>Datawell-buoy “Waverider” – 28499.875 kHz – Persian Gulf</b>
DK2OM	28600,0	0840	10	05	IRN		AM-pulse		55k	Iranian radar bursts – 870, 307 and 290 sps – long lasting
DK2OM	28746,5	---	--	05	GAB		A3E			carrier and dots in USB and LSB, bursts every 60 sec – carrier – Gabon
DK2OM	28751,6	---	--	05	GAB		A3E		1080	carrier and dots in USB and LSB, bursts every 60 sec – carrier – Gabon
DK2OM	28860,0	0900	22	05	IRN		AM-pulse		55k	Iranian radar bursts – 313 and 150 sps – long lasting
DK2OM	28960,0	---	--	05	IRN		AM-pulse		50k	Iranian radar bursts – 150 and 313 sps – long lasting - daily
DK2OM	29114,0	---	--	05	RUS		F1B	100	2000	harmonic from 14557.0 kHz - Moscow
DK2OM	29249,9	---	--	05	E		F1B	81.9	140	<b>Datawell-buoy “Waverider” – 29249.880 kHz – Spain Fuerteventura - daily, all day</b>
DK2OM	29337,0	1033	23	05	IRN		AM-pulse		55k	Iranian radar bursts – 307 sps - jumping
DK2OM	29345,0	1034	23	05	IRN		AM-pulse		55k	Iranian radar bursts – 307 sps - jumping
DK2OM	29375,0	---	--	05	I		F1B	81.9	140	<b>Datawell-buoy “Waverider” – 29374.898 kHz – Gallipoli, South Italy - daily, all day</b>
DK2OM	29387,5	---	--	05	IND		F1B	81.9	140	<b>Datawell-buoy “Waverider” – 29387.460 kHz – Indian NW coast, close to Pakistan - daily, all day</b>
DK2OM	29400,0	---	--	05	USA		F1B	81.9	140	<b>Datawell-buoy “Waverider” – 29400.070 kHz - USA north-east coast – NY daily, all day</b>
DK2OM	29450,0	---	--	05	MRC		F1B	81.9	140	<b>Datawell-buoy “Waverider” – 29449.863 kHz - area of El Aaiun – Morocco - daily, all day</b>
DK2OM	29500,0	---	--	05	G		F1B	81.9	140	<b>Datawell-buoy “Waverider” – 29499.974 kHz- area of</b>

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										<b>Gibraltar – daily, all day</b>
DK2OM	29525,0	---	--	05	MRC		F1B	81.9	140	Datawell-buoy “Waverider” – 29524.990 kHz - Agadir - Morocco – daily, all day
DK2OM	29625,0	---	--	05	USA		F1B	81.9	140	Datawell-buoy “Waverider” – 29625.024 kHz - USA north-east coast – daily, all day
DK2OM	29685,0	---	--	05	I		VFT		2300	Italian MIL – Brescia - daily
DK2OM	29699,5	---	--	05	I		VFT		1600	Italian MIL – Brescia - daily
DK2OM	50100,0	vt	vd	05	D		QRM			1.8 - 50 MHz strong QRM by a neighbouring LED lamp - since 2 years - “many thanks” to German “PTT” Eschborn 

### IRTS – Ireland – EI3GYB (Michael)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	DETAILS
IRTS	1812	0246	04	05	RUS		USB/LSB	RUS navy Kaliningrad. Heard daily in the middle of the night.
IRTS	3527	0855	15	05	HOL or MM		USB	Dutch fishermen chatting
IRTS	3532	0730-0735	04	05	RUS		USB	2 Russian voices chatting
IRTS	3550	0515	14	05	F		AM	French Hams still violating the band plan on a daily occasion.
IRTS	3560	1539	28	05	POR or MM		USB	2 Portuguese fishermen. Very loud.
IRTS	3590	0615	28	05	F		USB	French HAMS violating the band plan.
IRTS	3688	2100	13	05	RUS/UKR		LSB	Russian male persons shouting slogans and playing propaganda music. Heard on several occasions.
IRTS	5353	0925-0939	15	05	IRL or MM		USB	2 Irish fishermen. Names: Mike, Gary. Plenty of very foul language used.
IRTS	5360	2100-2110	23	05	F		USB	2 French fishermen, very loud. Right in the SSB section of the new 60 metre band.
IRTS	5355.9	1650-1700	30	05	F		USB	2 French fishermen chatting. Loud.
IRTS	5361.5	2100	24	05	DNK		Digital	NATO Aarhus. Daily all day and night. Makes any SSB QSO impossible. Legal primary user.
IRTS	5399.5	0200	20	05	MRC		USB	Arab voices chatting. Also heard on the 31 <sup>st</sup> at 0305z.
IRTS	7038.8	0700	31	05	RUS		CW	RUS navy Kaliningrad. Letter “P”. Audible all day. Very strong in the evening and at night.
IRTS	7050	1455	30	05	RUS/UKR		LSB	Russian-Ukrainian radio war. Rebroadcasting of Russian propaganda shows.
IRTS	7055	1240	07	05	RUS/UKR		LSB	Russian- Ukrainian radio war. Heard nearly daily all day.
IRTS	7120	1700	09	05	SOM		AM	Radio Hargeisa- only audible in the very early morning
IRTS	7139	1840	11	05			Digital	Huge digital signal
IRTS	7160	0930	12	05	MM		Digital	Link11-Clew. Heard on several days all day and night with various strength and width. Position somewhere in the North Atlantic off the Norwegian coast. Signals stopped on the 16 <sup>th</sup> of May.
IRTS	7160	1230	15	05			CW	D-QRM against the Link11-Clew signal done by an unknown person using CW signals
IRTS	7178	1205	01	05	RUS		BPSK	AT3004D from Kaliningrad. Heard all day.
IRTS	7180	0400	09	05	ERI		AM	Radio Eritrea- now only audible in the very early morning
IRTS	10101.1	0423	30	05	MRC or MM		USB	Arab male voices chatting

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	DETAILS	
IRTS	10140	2140	14	05			FMCW	Radar from 10140-10155 KHz.	
IRTS	10145	1640	29	05			FMCW	Radar from 10145 to 10155 KHz.	
IRTS	14000	0830	20	05	ISR or MM		Digital	ISR navy, very strong. Also heard on the 17 <sup>th</sup> .	
IRTS	14083	1200	30	05			Digital	Huge digital signal	
IRTS	14110	1250	07	05	RUS/ UKR		LSB	1 <sup>st</sup> harmonic of the radio war on 7055 KHz. Nearly daily.	
IRTS	14192	0930	02	05	RUS		F1B	RUS navy Kaliningrad. Heard daily all hours of daylight.	
IRTS	14221	0540	12	05	KGZ		F1B	Bishkek. Heard daily in the early morning.	
IRTS	14295	0700	29	05	TJK		AM	3rd harmonic of Radio Tajikistan.	
IRTS	14297	1625	29	05			Digital	Strong digital signal. Seems to be a faulty transmitter. Heard also on the 30 <sup>th</sup> and 31 <sup>st</sup> .	
IRTS	18077	0605	28	05			FMCW	Huge Radar signals from 18077-18102 KHz.	
IRTS	18080	0740	04	05	TWN		AM	Voice of Hope, Taipei. Heard on many days.	

### KARS – Kuwait – 9K2RR (Faisal)

### MRASZ – Hungary - HA7PL (Laci)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	DETAILS
MRASZ	3509,6	1815	16	5			A1A		5F, "RMNW K" "RPT K" "RMNW OK QRU K"
MRASZ	3618,0	1733	16	5			A1A		5L, "DXRQN ÖYChJG CKGXZ"
MRASZ	3676,7	1734	16	5	KAZ	V	A1A		slow V's
MRASZ	3692,5	1751	14	5			A1A		5L, "TXXWA EKENK UWEUY"
MRASZ	3738,0	1752	14	5			F1B	250	
MRASZ	3759,0	1727	17	5			PSK2		AT3004D
MRASZ	3760,0	1948	17	5			A1A		"RDL QCZ"
MRASZ	3793,0	1735	16	5			PSK2		AT3004D
MRASZ	7032,0	1722	17	5			USB		chaos
MRASZ	7032,0	1748	28	5			PSK2		AT3004D
MRASZ	7050,0	1723	17	5			LSB		chaos
MRASZ	7055,0	1749	28	5			LSB		chaos
MRASZ	7060,0	1746	14	5			PSK2		AT3004D
MRASZ	7110,0	1847	1	5			LSB		music, singing
MRASZ	7114,0	1842	1	5			F1B	200	
MRASZ	7120,0	1653	11	5	SOM		A3E		R. Hargaysa,
MRASZ	7140,0	1653	11	5	ERI		A3E		R. Eritrea,
MRASZ	7140,0	1729	16	5	ERI		A3E		R. Eritrea,
MRASZ	7140,0	1725	17	5	ERI		A3E		R. Eritrea,
MRASZ	7178,0	0907	1	5			PSK2		also hrd at 1842, AT3004D
MRASZ	7180,0	1654	11	5	ERI		A3E		R. Eritrea,
MRASZ	7180,0	1730	16	5	ERI		A3E		R. Eritrea,
MRASZ	7180,0	1726	17	5	ERI		A3E		R. Eritrea,
MRASZ	7180,0	1751	28	5	ERI		A3E		R. Eritrea,
MRASZ	7181,8	1748	14	5			NON		
MRASZ	7196,0	1655	11	5			F1B	200	
MRASZ	7198,0	1731	16	5			PSK2		AT3004D
MRASZ	10118,0	1924	29	5			F1B	250	
MRASZ	10151,0	1922	29	5			OTHR		10142-10160
MRASZ	14026,0	0901	10	5			PSK2		AT3004D
MRASZ	14083,0	0852	10	5			PSK2		AT3004D
MRASZ	14192,0	0915	1	5	RUS		F1B	200	RUS navy Kaliningrad
MRASZ	14192,0	0851	10	5	RUS		F1B	200	RUS navy Kaliningrad
MRASZ	14192,0	0647	11	5	RUS		F1B	200	RUS navy Kaliningrad
MRASZ	14192,0	0811	13	5	RUS		F1B	200	RUS navy Kaliningrad
MRASZ	14192,0	1532	14	5	RUS		F1B	200	RUS navy Kaliningrad
MRASZ	14192,0	1557	18	5	RUS		F1B	200	RUS navy Kaliningrad
MRASZ	14192,0	1227	20	5	RUS		F1B	200	RUS navy Kaliningrad
MRASZ	14263,0	0912	1	5			F1B	250	
MRASZ	14302,0	0845	10	5			PSK2		AT3004D

**OEVSV – Austria – OE3GSA (Gerd)****PZK – Poland – SP9BRP (Jan)****REF – France – F5MIU (Francis)**

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	Baud	Sh /Bw	DETAILS
R.E.F.										May 2018
	21190	0810	23				fmcw		20kHz	OTH radar S7 + 100kHz intermittent splatters
	7038.8	1635	30				cw			“P” Beacon S 57
	18133	1650	31				cw	1		Pulsing 1 sec S5 center France
	18138	1648	31				cw	1		Pulsing 1 sec S5 center France

**REP – Portugal – CT4AN (Jose Francisco)**

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REP	3500	08.20	22	05	E		J3E-U			Spanish fishery, Galicia province
REP	3540	08.21	22	05	E		J3E-U			Spanish fishery, Galicia province
REP	3560	21.10	19	05	E		J3E-U			Spanish fishery, everyday
REP	3570	08.09	07	05	E		J3E-U			Spanish fishery
REP	3575	08.10	07	05	E		F1B	300	200	Encrypted F1B, purp. Spanish Navy
REP	3720	22.21	04	05	E		J3E-U			Spanish fishery
REP	3756	20.44	21	05	RUS		A3E			Russian mil. Channel marker
REP	5350	21.20	21	05	E		J3E-U			Spanish fishery splattering
REP	6998	22.01	04	05	RUS		A3E			Buzzer, 3kHz
REP	7000	17.03	12	05			J3E-U			Unid language
REP	7005	09.00	01	05	E		J3E-U			Spanish fishery
REP	7038	20.11	30	05	RUS	P	A1A			Cluster beacon, Kalinigrad, Russian Navy
REP	7085	16.08	20	05	RUS		F1B	75	250	CIS50, Russia
REP	7100	16.18	23	05	RUS		F1B	50	200	CIS36-50 modem
REP	7120	19.15	09	05	SOM		8k00 A3EGN			Radio Hargaysa, Somalia
REP	7140	17.45	16	05	ETH		A3E8KBC			Radio Eritreia, Ethiopia
REP	7159	22.00	13	05			PSK			LINK11 CLEW Nato network mode, unid N. Sea
REP	10115	21.12	17	05	E		J3E-U			Spanish fishery
REP	10120	23.50	11	05			A3E			Letter Station - 5 letters
REP	10132	09.35	26	05	F		J3E-U			French amateurs ignoring I.A.R.U. Bandplans
REP	10135	19.33	14	05	MRC		J3E-U			Moroccan fishery
REP	10140	19.38	14	05			FMCW	50	17k	OTH radar
REP	14000	17.22	16	05	ISR		PSK8	2400		MIL188-110 modified Israel navy
REP	14025	13.00	10	05	RUS		PSK2	120	3k	AT3004D, 12x120bps pilot tone 3kHz
REP	14115	07.11	19	05			FMCW			OTH radar
REP	14192	10.01	15	05	RUS		FSK	50	200	Russian Navy encrypted, everyday
REP	18075	10.17	19	05			FMCW	50	20k	OTH radar
REP	21000	09.29	31	05	E		J3E-U			Spanish fishery, port of Santiago, north Spain
REP	21210	10.39	19	05			FMCW			OTH radar
REP	21215	14.51	22	05	MRC		J3E-U			Fishermen
REP	28025	18.25	13	05			F1B	51	270	Enagal GPS buoy
REP	28030	19.46	12	05		Y	A1A			Drifnet buoy

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REP	28555	10.33	19	05	RUS		F3E			Taxis dispatcher
REP	28725	11.00	19	05	RUS		F3E			Taxis dispatchers
REP	28xxx	Dly			B		A3E, J3E			Brazilian CB'rs, daily when prop. opens

### RSGB - Great Britain – G4DYA (Richard)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/BW	DETAILS
RSGB	5355.9	0904	26	05			USB		2K70-E	French language, poss. fishery
RSGB	7038.8	vt	30,31	05		P	A1A			Morse letter 'P'
RSGB	7055.0	vt	vd	05	UKR RUS		LSB			Ukrainian/Russian ops arguing including BC-type audio
RSGB	7140.0	vt	vd	05			A3E			BC
RSGB	7159.0	vt	12-19	05	CAN F G NOR USA		Link 11 CLEW		6K00-E	ISB/DSB/USB. STANAG 5511. NATO exercise in Norwegian Sea. Referred by Ofcom via UK MoD to NATO member. Frequency used in error.
RSGB	7162.0	1329	19	05			F1B	75	250	Went off at 1401 UTC
RSGB	7178.0	1635	01	05			MS5		2K70-E	USB 7176.0
RSGB	7180.0	vt	vd	05			A3E			BC
RSGB	7181.9	vt	20, 21	05	RUS		N0N			Unmodulated carrier. 61°35'N 33°42' E
RSGB	7210.0	2201	23	05	CHN	R. China	A3E		20K0-E	BC splattering below 7200
RSGB	10100.8	ady	dly	05	D	DDK9	F1B	50	450	For info - Primary user
RSGB	10151.0	1851	29	05			FMCW		10K0-E	Spreading down to 10146
RSGB	14001.7	1615	15	05	ISR		PSK		3K00-E	USB 14000. Approx 10 sec/minute. Mediterranean north of Cairo. Might be ISR Navy hybrid modem.

### SRAL – Finland – OH2BLU (Pekka)

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
SRAL	7008.0	0530-1400	*	5		UiPTR	F1B		200/250	Days: 6. 8. 23. 30.
SRAL	7010.0	0530-1230	*	5		UiMUX	PSK2	120	2600	Days: 6. 18. 21.
SRAL	7017.0	1250-1315	13	5		UiMUX	PSK2	120	2600	
SRAL	7018.9	1800-1920	10	5		UiCarr	N0N			
SRAL	7020.0	0400-1615	*	5	RUS	UiPTR	F1B		250	days: 6. 7. 12.
SRAL	7022.0	1055	25	5		UiMUX	PSK2	120	2600	
SRAL	7025.0	0615-1645	*	5		UiPTR	F1B		200	Days: 23. 25. 28. - 30.
SRAL	7027.0	1330-1410	23	5		UiMUX	PSK2	120	2600	
SRAL	7032.0	1620-1830	28	5	RUS	UiMUX	PSK2	120	2600	
SRAL	7032.17	1515-1730/	20	5		UiCarr	N0N			
SRAL	7034.0	1330-1750/	20 29	5		UiPTR	F1B/ N0N			
SRAL	7036.0	1710	15	5		UiMUX	PSK2	120	2600	
SRAL	7038.8	0415-1845	*	5	RUS	P	A1A			Days: 29. - 31.
SRAL	7050.0	1230-1400	26	5		UiCarr	N0N			
SRAL	7055.0	1530-1603/	17	5		UiPTR	F1B		250	
SRAL	7057.0	1445-1507/	11 17	5		UiMUX	PSK2	120	2600	

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
SRAL	7057.5	0745-1030	2 4	5		UiCW	A1A			5F, 5BL
SRAL	7058.0	1615	30	5		UiPTR	F1B		250	
SRAL	7060.0	0745-1800	10 14	5		UiMUX	PSK2	120	2600	
SRAL	7076.0	0635-0650	27	5		UiPTR	F1B		200/250	
SRAL	7078.0	0900-1045	21	5		UiMUX	PSK2	120	2600	
SRAL	7080 A	0545-1300	8	5		UiCarr	N0N			Unstable, at 0610 7079.75 kHz
SRAL	7099.0	'0610	31	5		UiPTR	F1B		250	
SRAL	7110.0	1030-1130	22	5		UiPTR	F1B			
SRAL	7114.0	0400-0600	*	5		UiPTR	F1B/N0N		200	Days: 1. 2. 3. 5.
SRAL	7120,0	0400-0415	4. - 10.	5	SOM	R.Hargeisa	A3E			
SRAL	7120,0	1545-2005/	4. - 10.	5	SOM	R.Hargeisa	A3E			
SRAL	7122.0	0830-0910/	6 8	5		UiPTR	F1B		250	
SRAL	7129.5	0750-0815	20	5		UiPTR	F1B			
SRAL	7137.0	1630-1845	2 4	5		UiPTR	F1B/N0N		200/250	
SRAL	7140,0	0300-0530	1. - 29.	5	ERI	VoBME	A3E			
SRAL	7140,0	1445-1840/	1. - 29.	5	ERI	VoBME	A3E			
SRAL	7146.0	0530-1030	2	5	RUS	UiMUX	PSK2	120	2600	
SRAL	7149.5	0605-1820	31	5		UiMUX	PSK2	120	2600	
SRAL	7159.0	0515-1815	15. - 19.	5	IW	UiLINK11	dsbPSK			
SRAL	7161.0	0910-0917/	25	5		624	R3E-u			Synth. Female vox
SRAL	7162.0	1300-1845	3 19	5		UiPTR	F1B		250	
SRAL	7163.0	1250	13	5		UiMUX	PSK2	120	2600	
SRAL	7164.1	0700-1823/	28. - 30.	5		UiCarr	N0N			
SRAL	7167.0	0600-1000	12. - 27.	5		UiPTR	F1B		250	
SRAL	7170.0	1820-1900	*	5	RUS	UiPTR	F1B		250	Days: 8. 10.
SRAL	7171.0	1035	26	5		UiMUX	PSK2	120	2600	
SRAL	7172.0	1330-1830	28	5		UiMUX	PSK2	120	2600	
SRAL	7176.0	-0617/	12	5		UiPTR	F1B			
SRAL	7178.0	0645-1904/	1	5	RUS	UiMUX	PSK2	120	2600	
SRAL	7178.5	'0850	20	5		UiCW	A1A			5BL
SRAL	7180.0	0300-0530	8. - 31.	5	ERI	VoBME	A3E			
SRAL	7180.0	1445-1840/	8. - 31.	5	ERI	VoBME	A3E			
SRAL	7181.9	/0540-1930	10. - 21.	5		UiCarr	N0N			
SRAL	7196.0	0745-1215	2 3	5		UiCW	A1A			5BL
SRAL	7196.0	1645-1748/	11	5		UiPTR	F1B			
SRAL	7198,0	1015-1705/	17 19	5		UiMUX	PSK2	120	2600	



Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
SRAL	7200.0	0650-1530	28	5		UiMUX	PSK2	120	2600	
SRAL	10150.0	0745-1300	12	5		UiOTHR	FMCW			c. 40 kHz
SRAL	10 MHz	1050-1230	13	5	RUS	29B6	FMCW			25/50Hz ,15 kHz (WebSDR 6d)
SRAL	14008.0	0835-1037/	3 20	5		UiPTR	F1B/ N0N		250	
SRAL	14108.0	0635-1225	*	5		CT1B etc.	A1A			Days: 10. 15. 18. 27. 5BL
SRAL	14118.0	'0740	18	5		DNMP	A1A			5BL, 5F
SRAL	14120.0	'0835	26	5		UiCW	A1A			5BL
SRAL	14192.0	0545-1130	*	5	RUS	UiPTR	F1B		20	Days: 5. 8. 11. 12. 13. 17. 18. 20. 26. 30.
SRAL	14221.0	0215-0600/	dly	5	KGZ	UiPTR	F1B		200	
SRAL	14240.0	'0835	3	5	RUS	UiPTR	F1B		250	
SRAL	14241.0	'0835	26	5		UiMUX	PSK2	120	2600	
SRAL	14265.0	'0740	1	5		UiMUX	PSK2	120	2600	
SRAL	14302.0	0750-0800	10	5		UiMUX	PSK2	120	2600	
SRAL	18107.0	1145-1245	5	5	RUS	RDL	F1B		200	
SRAL	18 MHz	0745-1315	*	5	CYP / TUR	UiOTHR	FMCW			25/50Hz / 20 kHz, days: 4. 12. 13. (WebSDR 11d)
SRAL	21 MHz			5	CYP / TUR	UiOTHR	FMCW			25/50Hz / 20 kHz, (WebSDR 2d)
SRAL	21438,0	0830-1200	*	5	RUS	RCV	A1A			Days: 5. 11. 12. 19. 20. 26.
SRAL	24 MHz			5		UiOTHR	FMCW			(WebSDR 0d)
SRAL	28 MHz	0530-1900	*	5	IRN	UiOTHR	FMCW			307 & 870 Hz / 60 kHz. Days: 10. 11. 24. 25. 30. 31. jumping
SRAL	28860.0	0530-1500	*	5	IRN	UiOTHR	FMCW			150 & 313 Hz / 60 kHz. Days: 10. 11.12. 12. 17. 18. 20. 26. 30.
SRAL	28 MHz			5		UiOTHR	FMCW			25/50Hz / 20 kHz (WebSDR 0d)
SRAL	28 MHz	0530-1815	*	5	RUS	Taxi disp.	F3E			Days: 10. 11. 12. 17. 19. 30. 84 reports

### URE – Spain – EB1TR (Fabian)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
URE	3509	16:49	5	5						EADS Echotel ALE Shared band
URE	3520	16:34	5	5			USB			2 unid persons chatting
URE	3527	22:23	15	5	RUS		F1B	50	200	Severomorsk
URE	3559,5	20:20	15	5			A1A			Fast regular “dahs”. Non-stop. 1 h. +
URE	3564,5	20:21	15	5	RUS		FSK	75	250	RUS MIL 75-250
URE	5361,8	21:32	15	5	DNK		PSK8A	2400	2400	STANAG-4285, DNK Navy Aarhus, legal
URE	7005	11:33	4	5			F1B			
URE	7007	11:41	4	5			PSK2A	120	2600	AT3004D
URE	7008	6:31	14	5	RUS		F1B	75	250	Smolensk
URE	7014	7:25	3	5			F1B	50	170	
URE	7014	8:15	14	5			N0N			Carrier. For hours.
URE	7018	7:15	3	5			F1B	50	170	
URE	7030	8:15	14	5			N0N			Carrier. For hours.

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
URE	7032	15:49	18	5	RUS		PSK2A		3,5K	AT3004D open channel
URE	7032	17:52	28	5	RUS		PSK4B	120	2600	AT3104D Moscow
URE	7050	vt	vd	5	RUS/UKR		J3E			Broadcasting. RUS / UKR
URE	7055	vt	vd	5	RUS/UKR		J3E			Broadcasting. RUS / UKR
URE	7146	7:10	2	5	RUS		PSK2A	120	2600	AT3004D Sevastopol, Crimea
URE	7149,2	6:30	31	5			PSK2A	12	2600	AT3004D
URE	7159	23:10	15	5						LINK 11 CLEW
URE	7178	10:35	1	5	RUS		PSK2A	120	2600	AT3004D Kaliningrad
URE	7181,9	6:30	vd	5						Continuous carrier + BEE?
URE	7181,9	7:20	15	5			N0N			Carrier. For hours.
URE	7181,9	17:30	16	5			N0N			Continuous carrier. For hours.
URE	7184,5	7:20	15	5			N0N			Carrier. For hours.
URE	7198	17:30	16	5	RUS		PSK2A	120	2600	AT3004D RUS, Penza
URE	7200	7:22	28	5	RUS		PSK2A	120	2600	AT3004D Kaliningrad (7198.7 – 7201.3 kHz)
URE	10102,9	vt	vd	5	RUS		N0N			Carrier. For hours. Daily. Moscow.
URE	10102,9	vt	vd	5	RUS		F1B	50	200	Almost every morning
URE	10108	7:34	vd	5	RUS		F1B	50	200	CIS-50-50, Moscow
URE	10112,5	7:40	19	5			PSK2A	120	2600	AT3004D. 2 minutes and gone
URE	10114,8	7:54	4	5	RUS		F1B	100	1000	CIS14 Moscow
URE	10114,8	7:47	vd	5	RUS		F1B	100	100	CIS14 - Moscow
URE	10117,5	7:30	9	5			PSK2A	110	2600	AT3004D
URE	10118	17:30	24	5	RUS			75	250	Moscow
URE	10128	11:40	31	5					22K	OTH Radar. 10128 - 10150 KHz
URE	10131	9:23	25	5			F1B		250	
URE	10133	8:26	25	5			PSK2A	120	2600	AT3004D
URE	10146	14:30	29	5						OTH Radar. ( 10146 - 10156 KHz)
URE	14000	16:03	15	5	ISR		FSK8	2400	75	MIL 188-110A modified. Hybrid modem 75 and 2400 Bd. Israel Navy
URE	14000,1	6:30	23	5			N0N			Carrier. For hours.
URE	14005	22:30	13	5			USB			Unid persons talking
URE	14008	9:10	2	5	RUS		F1B	50	170	Moscow
URE	14008	7:01	12	5	RUS		F1B	50	170	Moscow
URE	14030	7:46	12	5						ARQ Sys?
URE	14036,8	6:02	30	5			N0N			Carrier.
URE	14037,5	20:55	22	5			USB			Unid persons talking. Arabic language.
URE	14083	12:00	30	5	RUS		PSK2A	12	2600	AT3004D. Moscow
URE	14192	11:23	vd	5	RUS		F1B	50	200	RUS Navy Kaliningrad
URE	14192	7:35	22	5	RUS		F1B	50	200	Kaliningrad
URE	14221	21:26	15	5	KGZ		F1B	41.5	200	Kyrgyzstan – Bishkek

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
URE	14240	8:05	8	5	RUS		F1B	50	250	Russian MIL
URE	14240	6:54	19	5	RUS		F1B	50	250	Tver
URE	14298	16:40	29	5					2600~	Broken signal from a defective system. Also on 30 -05 at 11:00 UTC, and 30-05 for hours
URE	18080	9:35	23	5	TWN		AE3		9K	BC "Sound of Hope" TWN + Chinese BC jammer. Also on 28 May 14:00UTC
URE	18080	7:52	29	5	TWN		AE3			BC "Sound of Hope". Taiwan

### USKA – Switzerland – HB9CET (Peter)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
<b>80m band informational only! - Amateur co-primary, shared with other also primary allocated services!</b>										
USKA	3513.0	2103	09	05			F1B	81	200	daily
USKA	3527.0	2232	01	05			F1B	50	200	almost daily
USKA	3544.0	2123	10	05			F1B	75	200	
USKA	3552.0 VFO USB	2235	01	05			G1D PSK8	2400	2k4	STANAG 4285 daily
USKA	3552.0	1828	03	05			F1B	50	250	almost daily
USKA	3559.0	2128	14	05			OFDM6 0	35.55	~ 2k75	PSK4 mod; Pilot @ appx 3k3, tone spacing 44.45Hz
USKA	3570.0	2121	10	05			J7D	12x120	2k7	BPSK; CIS12
USKA	3582.0	2232	17	05			J7D	12x120	2k7	BPSK; CIS12
USKA	3594.0 VFO USB	2257	18	05			G1D PSK8	2400	2k7	MIL 188-110A mod (Hybrid), preamble 4 tones, PSK4 75Bd 450Hz spacing
USKA	3594.5	2110	09	05			G1D PSK8	2400	2k4	STANAG 4285 often
USKA	3597.0	2144	03	05			J7D	12x120	2k7	BPSK; CIS12 (idling)
USKA	3630.179	2139	14	05			A1A			fast dashes only (beacon ?) often
USKA	3631.0 VFO USB	2240	01	05			G1D PSK8	2400	2k7	MIL 188-110A mod (Hybrid), preamble 4 tones, PSK4 75Bd 450Hz spacing
USKA	3676.0	2118	10	05			F1B	75	250	
USKA	3676.0	2126	14	05			F1B	50	200	
USKA	3697.0	2234	17	05			J7D	12x120	2k7	BPSK; CIS12
USKA	3718.0	2121	14	05			G1D PSK8	2400	2k4	Stanag 4285
USKA	3723.0	2124 2235	16 17	05			B7D DQPSK	14x75	5k9	LINK 11 CLEW; DSB Mode often
USKA	3738.0	2125	14	05			F1B	50	250	
USKA	3743.0 VFO LSB	2141	03	05			BPSK	30x60Bd	~2k5	Burst system; tone spacing 75 Hz Preamble 4x PSK 60Bd, spacing 600Hz; Pilotone at 450Hz
USKA	3744.5 VFO USB	2134 2237	14 17	05			G1D PSK8	2400	2k7	MIL 188-110A mod (Hybrid), preamble 4 tones, PSK4 75Bd 450Hz spacing often
USKA	3748.0	2101	10	05			F1B	75	250	
USKA	3759.0	2239	17	05			J7D	12x120	2k7	BPSK; CIS12
USKA	3784.5	2228	28	05			G1D PSK8	2400	2k7	MIL 188-110A mod (Hybrid), preamble 4 tones, PSK4 75Bd 450Hz spacing
USKA	3793.0	2241	17	05			J7D	12x120	2k7	BPSK; CIS12
USKA	3797.0	1832	03	05		RJV	A1A	15wpm		letters + figures in groups often
USKA	5361.8 VFO USB	1826	03	05	DNK		G1D PSK8	2400	2k4	STANG 4285; reported as Danish Navy in Aarhus: <b>legal !</b>

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	7008.0	0653	08	05			F1B	75	250	
USKA	7021.0	2224	13	05			FMOP	appx 3 sps	30k	OTHR
USKA	7027.0	0753	23	05			J7D	12x120	2k7	QPSK; CIS12
USKA	7030.0	1824	03	05			F1B	75	250	
USKA	7032.0	1819	28	05			J7D	12x120	2k7	QPSK; CIS12
USKA	7038.8	2218	28	05	RUS	P	A1A			Letter beacon; Kaliningrad
USKA	7058.0	2229	17	05			F1B	75	250	
USKA	7106.0 VFO USB	2053	09	05		var	F1B	100	170	CODAN Selcall often
USKA	7112.0 VFO USB	2056	09	05		var	F1B	100	170	CODAN Selcall's
USKA	7112.0	1706	16	05			J7D	12x120	2k7	BPSK; CIS12
USKA	7114.0	1822	03	05			F1B	50	200	
USKA	7120.0	1535	10	05	SOM		A3E			BC; Radio Hargaysa almost daily
USKA	7137.0	1614	02	05			F1B	36+50	200	CIS 36-50
USKA	7140.0	1531	10	05	ERI		A3E		~ 8k	BC often
USKA	7146.0	0856	02	05			J7D	12x120	2k7	BPSK; CIS12
USKA	7159.0 LSB + USB	2227 2303	15 19	05			B7D DQPSK	14x75	5k9	LINK 11 CLEW; DSB or ISB Mode long lasting over many days!
USKA	7159.0 VFO USB	1932	12	05			G1D DQPSK	14x75	~ 2k5	LINK 11 CLEW SSB Mode; north of the Norwegian coast
USKA	7162.0	1819	03	05			F1B	75	250	often
USKA	7169.0	0811	08	05			F1B	75	200	
USKA	7172.0	1824	28	05			J7D	12x120	2k7	BPSK; CIS12
USKA	7179.0	2202	19	05			J7D	12x120	2k7	BPSK; CIS12 often
USKA	7180.0	1525	10	05	ERI		A3E		~ 9k	BC almost daily
USKA	7181.900	2137	20	05			NON			long lasting carrier; strong
USKA	7197.0	2209	03	05	TUR	381018	MFSK8	125	1750	ALE, MIL 188-141A
USKA	7197.0	2210	03	05	TUR	332018	MFSK8	125	1750	ALE, MIL 188-141A
USKA	7197.0	2212	03	05	TUR	340013	MFSK8	125	1750	ALE, MIL 188-141A
USKA	7197.0	2213	03	05	TUR	306013	MFSK8	125	1750	ALE, MIL 188-141A
USKA	7197.0	2214	03	05	TUR	318013	MFSK8	125	1750	ALE, MIL 188-141A
USKA	7198.0	1654	16	05			J7D	12x120	2k7	BPSK; CIS12
USKA	7200.0	0935	28	05			J7D	12x120	2k7	BPSK; CIS12
USKA	14000.0 VFO USB	1528	15	05	ISR?		G1D PSK8		2k7	MIL188-110A (D2) Hybrid with 6 tone preamble PSK4 75Bd 450Hz spacing
USKA	14008.0	0857	02	05			F1B	50	167	only short sequences, every 15'
USKA	14050.0	0938	28	05			F1B	75	250	
USKA	14192.0	0915	02	05			F1B	50	200	almost daily
USKA	14221.0	2149	03	05			F1B	41.5	200	
USKA	14221.0	2045	09	05			F1B	50	200	often
USKA	14240.0	0804	08	05			F1B	50	250	
USKA	14240.0	0713	19	05			F1B	75	250	often
USKA	14242.0	0943	11	05			J7D	12x120	2k7	BPSK; CIS12
USKA	18080.0	0702	08	05			FMOP	25 sps	20k	OTHR
USKA	18080.0	0706	08	05			A3E		~15k	BC; Chinese almost daily Sound of Hope + PRC
USKA	18085.0	0715	19	05			FMCW	50 sps	20k	OTHR
USKA	18085.0	0715	19	05			FMCW	50 sps	20k	OTHR
USKA	18090.0	1506	18	05			FMCW	25 sps	20k	OTHR
USKA	18150.0	0828	23	05			F1B	100	1000	harmonic of 9075khz
USKA	21135.0	0812	23	05			FMCW	25 sps	20k	OTHR
USKA	21190.0	0806	23	05			FMCW	50 sps	20k	OTHR
USKA	21438.0	0903	14	05	RUS	RCV	A1A			lettres + figures often
USKA	28860.0	0920	11	05			FMOP	150 + 313 sps	40k	OTHR, Bursts, various sweep- rates and durations (7.2 and 9.8s)

## Veron – Netherlands – PG1R (Ruud)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SHIFT	DETAILS
VERON	3564,0	2000	29	5		UiPtr	F1B		Ptr
VERON	3618,0	2003	29	5	CIS	LSBV	A1A		Calls: EIKW de LSBV
VERON	3741,0	2004	29	5	CIS	62U5	A1A		Calls
VERON	7020,0	0946	6	5	RUS	UiPtr	F1B	250	printer
VERON	7038,8	1958	29	5	RUS	P	A1A		P-beacon Kaliningrad
VERON	7038,8	0718	30	5	RUS	P	A1A		P-beacon
VERON	7050,0	1800	3	5	RUS	UiBC	A3E		Speech Russian language
VERON	7162,0	1802	3	5	RUS	UiPtr	F1B		printer
VERON	7196,0	1732	11	5		UiPtr	F1B		Ptr
VERON	10108,0	0901	10	5	CIS	UiPtr	F1B		Revs/Ptr
VERON	10108,0	1418	10	5		UiPtr	F1B	200	Printer; S6
VERON	10118,0	2012	23	5		UiPtr	F1B		Ptr also at 29/5 19.56 UTC
VERON	14005,0	1038	24	5		UiCAR	NON		carrier
VERON	14008,0	0900	4	5	CIS	UiPtr	F1B		Carrier/Revs/Ptr
VERON	14108,0	0745	7	5	RUS	CT1B	A1A		2JZH DE CT1B proc
VERON	14108,0	0747	7	5	RUS	CT1B	A1A		4TX4 DE CT1B proc
VERON	14108,0	0748	7	5	RUS	WEGI	A1A		XXX WEGI 77967 WOINOGREH 3432 5613
VERON	14108,0	0752	7	5	RUS	CT1B	A1A		CMTN DE CT1B proc
VERON	14108,0	0753	7	5	RUS	CT1B	A1A		6FTL DE CT1B proc
VERON	14108,0	0750	23	5	RUS	4S6V	A1A		2HFL DE 4S6V proc
VERON	14108,0	0751	23	5	RUS	4S6V	A1A		2BL2 DE 4S6V proc
VERON	14108,0	0752	23	5	RUS	4S6V	A1A		JZT6 DE 4S6V proc
VERON	14108,0	0752	23	5	RUS	4S6V	A1A		KXA4 DE 4S6V proc
VERON	14108,0	0754	23	5	RUS	4S6V	A1A		H4KE DE 4S6V proc
VERON	14108,0	0756	23	5	RUS	4S6V	A1A		M2PD DE 426V proc
VERON	14192,0	0947	1	5	CIS	UiPtr	F1B		Revs/Ptr also at 4/5 09.02 UTC, 16/5 09.15 UTC
VERON	14221,0	2010	23	5		UiPtr	F1B		Revs
VERON	14239,0	0931	3	5	RUS	UiCAR	NON		carrier
VERON	14263,0	0949	1	5		UiPtr	F1B		Ptr
VERON	18107,0	0951	1	5	CIS	UiPtr	F1B		Revs/Ptr
VERON	18107,0	1009	1	5	CIS	UiCW	F1A		XXX followed by F1B Revs/Ptr
VERON	21438,0	0945	31	5	RUS	RCV	A1A		nawip

# The monitoring team of IARU Region 1

credits:

**Wavecom Elektronik – Buelach – Switzerland**

**All our friends and contributors worldwide!**

**Many thanks for your interest!**

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