International Amateur Radio Union

Region 1

Monitoring System

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The monthly newsletter for Region 1

March 2018

The 28 members of the IARUMS Region 1 Monitoring Team:

Acknowledgements

ARAT: 3V8CB – Ahmed ++ ARI: DH7SA – Salvatore ++ ARSK: 5Z4BV - Kamweti ++ DARC: DK2OM – Wolf ++ EARS: A61M – Obaid ++ ERASD: SU1SA – Sayed ++ HRS: 9A5DGZ – Gianluca ++ IARC: 4Z1AB – Amos ++ IRTS: EI3GYB - Michael KARS: 9K2RR – Faisal ++ MARL: 9H1M – Dominic ++ MRASZ: HA7PL - Laci ++ NARS: 5N9AYM – Yusuf ++ NRRL: LA4EU – Hans Arne ++ OEVSV: OE3GSA – Gerd ++ PZK: SP9BRP – Jan ++ RAL: OD5RI – Riri ++ REF: F5MIU – Francis ++ REP: CT4AN – Jose ++ ROARS: A41MA - Younis ++ RSGB: G0MGX - Mark ++ SARL: ZS6NS - James ++ SRAL: OH2BLU - Pekka ++ SSA – Ullmar ++ UBA: ON8IM – Ivan +++ URE: EB1TR - Fabian ++ USKA: HB9CET - Peter ++ VERON: PG1R - Ruud ++ 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 ++ unofficial member: ++ ASTRA - DL1BDF - Mustapha ++ PTTs: BAKOM (Swiss) ++ OFCOM (UK) ++ Dutch AT ++ Austrian PTT

Part 1: News and infos
Part 2: Detailed reports of the national co-ordinators

Part 1: News and Infos

1. HAMRADIO 2018 – DARC and IARUMS Region 1 Monitoring Meeting

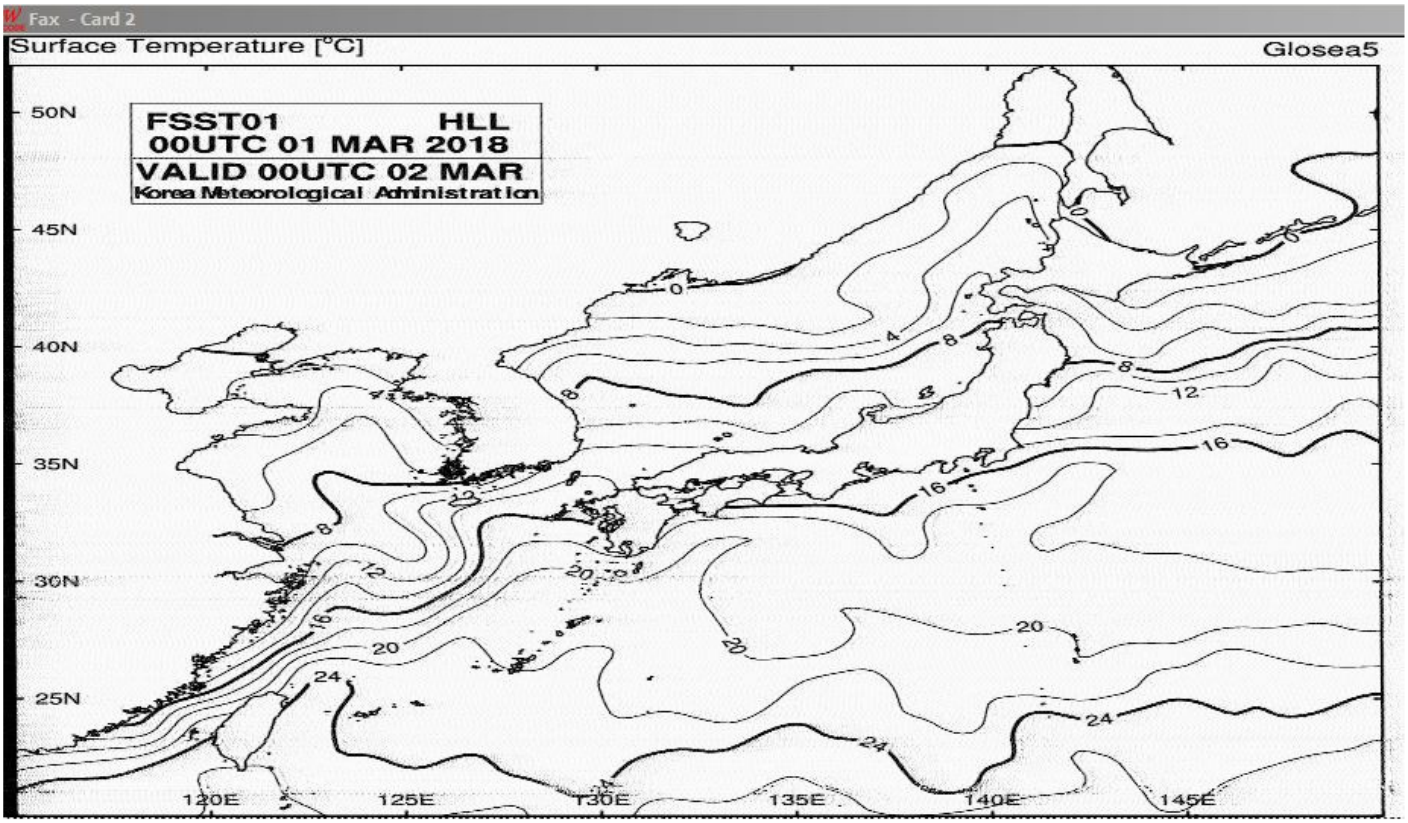
Invitation to all national coordinators and friends of our Monitoring System Region 1 and the DARC Monitoring System: (German version: http://www.iarums-r1.org/bandwacht/bw-2018.pdf) Saturday, June 2nd 2018 – Time: 10.00 – 11.30 CEST - Room Swiss (180) – Hall A2

Programme:

1. **Opening by DK2OM**
2. **Introduction of the DARC HF-Department by DJ5FL**
3. **Main lecture "The IARU Region 1 Monitoring System" Presentation by HB9CET**
4. **Region 1 IARUMS Coordinator Meeting at the stand of the HF-Department**

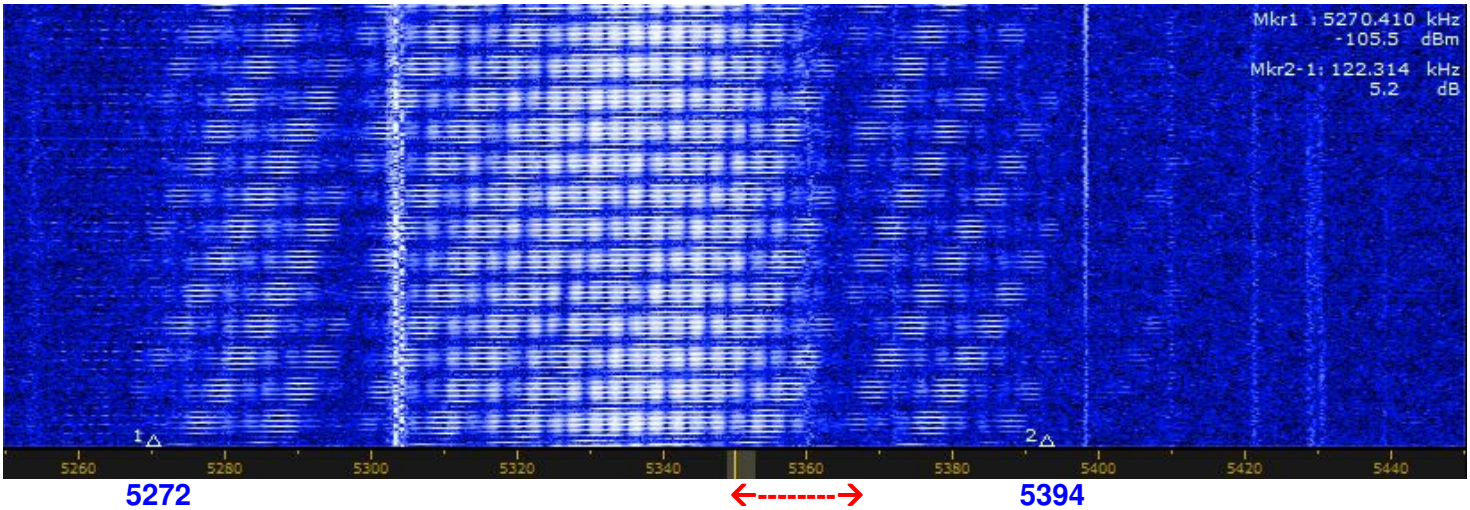
2. WX-fax on 80 m – shared band!

FAX transmission by the Korean Meteorological Administration 3585.0 kHz on March 1st at 2100 utc.
Parameters: drum speed 120 rpm – IOC 576 – reception by Wavecom W-Code – station ident: **HLL**
Please obeserve: The 80 m-band is a shared band. There are many legal services!



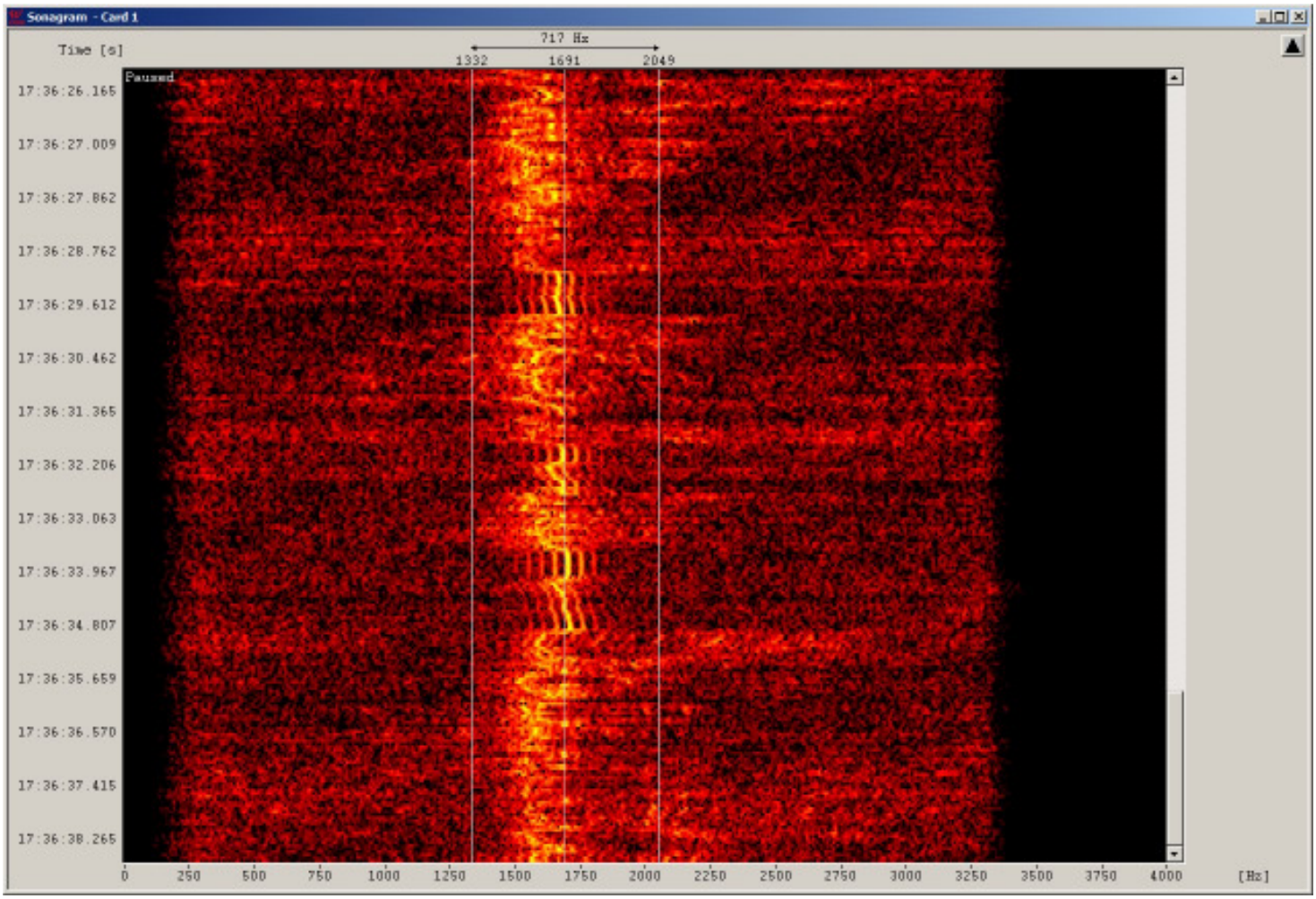
3. Far East OTH radar on our narrow 5 MHz band (assigned on secondary base)

Far East OTH radar on 5272 – 5394 kHz with FMOP and 42 sps (= PRF 42) on March 11th on 2019 utc.
Location: Possibly China – Any traffic on 5351.5 – 5366.5 was impossible.



4. CIS pirates on 5351 kHz

We found CIS pirates on 5351 kHz and above in the evenings. They transmitted on AM with very unstable carriers. The sonagram shows such a signal on 5351.7 kHz – unstable carrier and weak modulation. (screenshot with Wavecom W-Code).



5. Spanish fishery daily on our bands

Spanish fishery was daily active on 3525, 3560, 5350, 7000 and 14024 on USB. No change as expected.

6. Chinese OTH radars

Chinese OTH radars were very active 14 and 21 MHz on burst mode and jumping. Parameters: FMOP 42 sps, 50 sps and 66.66 sps (foghorn) – covering 10 kHz.

7. Chinese "PRC-30" systems on 7 MHz

The PRC-30 modems were transmitting on 7034 and 7112 kHz on LSB. Parameters: 30 tones – 60 Bd – PSK4A shift 2350 Hz – burst mode – pilot tone on 450 Hz – Sometimes audible in Europe with S 9 in the evenings. The purpose is unknown.

8. Taiwanese Navy on 7137 kHz

The Taiwanes Navy is still operating on 7137.0 kHz with many idents. Parameters: MIL-188-141A (aka ALE) on LSB with FSK 8 (8 x 125 Bd) – shift 1750 Hz – Very strong signals in Europe in the evenings!

9. Miscellaneous or bad news:

3560.0 kHz – USB – Spanish fishermen daily at 1600 utc or later (also: 3500, 3535, 3550, 3590, 7000 kHz)
5350.0 kHz – USB – Spanish fishery – splattering up to 5353.0 kHz
7120.0 kHz – Radio Hargeis Somalia – as usual
7140.0 kHz and 7180 kHz – Radio Eritrea and white noise QRM by Radio Ethiopia
14295.0 kHz - Radio Tajik (harmonic from 4765 kHz) – no change

10. 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** = othogonal 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	Shift	Details
RSK	6999	0545	28	3	Tanzania/ E.Africa	?	J3E-u		Mil Kiwahili message net
RSK	7002	0640	26	3	E. Africa / S. Sudan?	?	J3E-u		Mil/Eng/vernacular msg net
RSK	7008	1105	7	3	E. Africa / S. Sudan?	?	J3E-l		Mil/Eng/vernacular msg net
RSK	7033	vt	occasional	3	E. Africa?	?	J3E-l		Vernacular
RSK	7040	1330	8	3	E. Africa?	?	J3E-u		Vernacular/Kiswahili net
RSK	7044	0902	20	3	E. Africa?	?	J3E-u		Vernacular/English net
RSK	7055	1523	8	3	Eastern Europe?	?	J3E-l		Child singing Slavic language
RSK	7066	0731	12	3	E. Africa?	?	J3E-u		Mil English msg
RSK	7075	1107	03,04	3	Kenya	?	J3E-l		Kiswahili net
RSK	7089,1	vt	nr dly	3	Central Africa?	?	J3E-u		Mil French Vernacular Msg net
RSK	7120	vt	dly	3	Somaliland	Radio Hargeisa	A3E		Broadcast
RSK	7140	vt	dly	3	Eritrea	Voice of the Broad Masses of Eritrea 1	A3E		Broadcast
RSK	7140	a.m.-p.m.	near dly	3	Ethiopia?	?	A3E		Heavy jammer
RSK	7180	vt	dly	3	Radio Eritrea	Voice of the Broad Masses of Eritrea 2	A3E		Broadcast, occasional QSY 7181.55kHz
RSK	7180	p.m.	near dly	3	Ethiopia?	?	A3E		Heavy jammer
RSK	21200	1945	25	3	??	?	A3E	2.5K	CODAR?
RSK	21370	1946	25	3	??	?	A3E	2.5K	CODAR?

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

DG0JBJ (Mario) observed 0 OTH radar on 40 m, 0 OTH radars on 20 m, 29 OTH radars on 17m, 21 OTH radars on 15 m and 2 OTH radar on 10 m in March 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	ady	dly	03	RUS		USB LSB			14 tones – hyperbolic radio navigation system – BRAS-3/RS-10 – Kaliningrad – no carrier - daily, all day
DK2OM	1852,0	2043	24	03	I	IPP	USB			Palermo Radio, weather reports
DK2OM	1855,0	2043	24	03	I	IQP	USB			San Benedetto Radio, weather reports - daily
DK2OM	1876,0	2042	24	03	I	IQN	USB			Lampedusa Radio, weather reports - daily
DK2OM	1888,0	2042	24	03	I	IPD	USB			Civitavecchia Radio, weather reports - daily
DK2OM	1896,5	ady	dly	03	D		PSK8	2400	2400	Stanag4285 – 600 bps long – German Navy – daily, all day
DK2OM	1925,0	2040	24	03	I	IPL	USB			Livorno Radio, weather reports - daily
DK2OM	3503,5	vt	dly	03	G	no ITU	FSK8	125	1750	ALE – "XSS" "XPU" "XJR" – British MIL Tascomm – vt, daily - legal!
DK2OM	3525,0	---	--	03	F		PSK4	75	5800	LINK11-CLEW on both sidebands (5800 Hz wide) – area of Marseille – legal!
DK2OM	3527,0	2000	04	03	RUS		F1B	50	200	Severomorsk - daily
DK2OM	3531,0	---	--	03	RUS	REA4	N0N			unclean carrier - RUS airforce Moscow, ident: 1940 utc - daily
DK2OM	3531,5	2035	22	03	RUS		PSK2A	120	2600	AT3004D - Kaliningrad
DK2OM	3532,0	2105	28	03	F		PSK4	75	5800	LINK11-CLEW on both sidebands (5800 Hz wide) – area of Brest – legal!
DK2OM	**3535,0**	**1835**	**19**	**03**	**E**		**USB**			**Spanish fishery often**
DK2OM	**3540,0**	**1840**	**11**	**03**	**E**		**USB**			**Spanish fishery –also 28.03. at 2053 utc**
DK2OM	**3550,0**	**0730**	**dly**	**03**	**F**		**A3E**			**French amateurs not respecting bandplans – every morning**
DK2OM	3550,0	vt	vd	03	ALG	no ITU	FSK8	125	1750	ALE, "IU50" "IU52" "FN50"
DK2OM	3550,0	1922	23	03	RUS		PSK2A	120	2600	AT3004D – submode idle and traffic - Sevastopol
DK2OM	3550,7	---	--	03	ISR		PSK4 PSK8	75 2400	2400 2400	hybrid modem – ISR Navy – PSK4 parallel and PSK8 serial - legal operation!
DK2OM	3553,8	ady	dly	03	TUR		PSK8	2400	2400	Stanag4285 – 600 bps long -TUR MIL - Ankara – daily, all day - legal operation
DK2OM	**3560,0**	**2000**	**02**	**03**	**E**		**USB**			**Spanish fishery – daily 1600 utc or later – like telephone**
DK2OM	3576,6	ady	dly	03	I	IZ3DVW	A1A			3576.550 - uncoordinated beacon – disturbing JT65
DK2OM	3581,0	2001	21	03	RUS		PSK2A	120	2600	AT3004D – submode idle - Moscow
DK2OM	3585,0	ady	dly	03	TWN	HLL	F1C		800	WX-fax Taiwan - 120 rpm, IOC 576 - daily, all day - legal!
DK2OM	3587,0	vt	vd	03	E	no ITU	FSK8	125	1750	ALE, "TVV" "TXX" - Spanish Guardia Civil
DK2OM	3591,0	1914	30	03	RUS		F1B	75	250	Kaliningrad
DK2OM	3593,7	---	--	03	RUS	D	A1A			Cluster beacon – Sevastopol RUS Navy – **"RCV"**
DK2OM	3593,8	---	--	03	RUS	P	A1A			Cluster beacon – Kaliningrad RUS Navy – **"RMP"**
DK2OM	3593,9	---	--	03	RUS	S	A1A			Cluster beacon – Severomorsk RUS Navy – **„RIT"**
DK2OM	3594,0	---	--	03	RUS	C	A1A			Cluster beacon C - Moscow RUS

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										Navy - **"RIW"**
DK2OM	3594,2	---	--	03	RUS	F	A1A			Cluster beacon F - Vladivostok RUS Navy - **"RJS"**
DK2OM	3595,0	---	--	03	RUS	K	A1A			Cluster beacon - Petropavlovsk Kamchatskiy - RUS Navy - Pacific fleet - **"RCC"**
DK2OM	3595,5	2046	23	03	ISR		PSK4 PSK8	75 2400	2250 2250	hybrid modem – ISR Navy – PSK4 parallel and PSK8 serial - legal operation!
DK2OM	3596,0	vt	dly	03	J		FSK8	125	1750	ALE, "JH1ESB" – just for info!
DK2OM	3617,0	vt	dly	03	HRV	9A5EX	FSK8	125	1750	ALE, "9A5EX" – HAM-ALE - just for info
DK2OM	3622,5	ady	dly	03	J	JMH	F1C		800	Tokyo Meteo – 120 rpm – IOC 576 – daily, all day - legal!!!
DK2OM	3649,0	vt	vd	03	ALG	no ITU	FSK8	125	1750	ALE, "BI20" PA20"
DK2OM	3756,0	1800	dly	03	RUS		A3E			RUS MIL – channel marker – Tuapse – East Black Sea – night QRG – daily – even audible in Japan
DK2OM	5310,0	1935	20	03	CHN		FMOP		58k	Chinese coastal radar "Sunflower" - 43 sps – 5310 – 5368 kHz
DK2OM	5313,0	2050	22	03	CHN		FMOP		124k	Chinese coastal radar "Sunflower" - 43 sps – 5313 – 5437 kHz
DK2OM	**5350,0**	**2045**	**09**	**03**	**MRC**		**USB**			**Moroccan fishery– splattering up to 5353.0**
DK2OM	5350,0	1730	06	03	CIS		A3E			unid persons in Russian voice – vy unstable carrier – 4 kHz drift - 5350 – 5354 kHz
DK2OM	**5350,0**	**1930**	**11**	**03**	**E**		**USB**			**Spanish fishery – splattering up**
DK2OM	5351,9	1850	13	03	CIS		OFDM	33.33	2880	OFDM 45 – PSK2B – pilot tone 3300 Hz - legal user!
DK2OM	5352,0	1627	16	03	RUS		PSK2A	120	2600	AT3004D – Moscow – primary user !
DK2OM	**5354,0**	**2018**	**22**	**02**	**E**		**USB**			**Spanish fishery**
DK2OM	5354,0	2025	10	03	AUS		FMOP		10k	Australian OTH radar JORN – 6 sps bursts – long distance mode
DK2OM	5361,8 RF	1845	17	03	DNK	OUA15	PSK8A	2400	2400	Stanag-4285 – 600 bps long – assigned to Danish Navy Aarhus - legal – primary user !
DK2OM	5362,0	1820	16	03	CIS		F1B	50	500	
DK2OM	6890,0	1510	15	03	CHN		FMOP		160k	6890 – 7050 - Chinese wideband OTH radar – 10 sps
DK2OM	6940,0	1510	15	03	CHN		FMOP		160k	6940 – 7100 - Chinese wideband OTH radar – 10 sps
DK2OM	6998,5	--	--	03	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	1845	06	03	INS		USB LSB			Indonesian pirates – singing children meetings
DK2OM	7000,0	2215	02	03	MRC		USB			Moroccan fishery
DK2OM	**7000,0**	**2158**	**03**	**03**	**E**		**USB**			**Spanish fishery**
DK2OM	7000,9	1036	26	03	RUS		OFDM	22.8	2950	6999.0 RF - OFDM 112 – PSK2B - Kaliningrad
DK2OM	7001,5	--	---	03	POL		PSK8	2400	2400	RF QRG 6998.5 kHz – 7000.3 kHz center - MIL-188-110A – 600 / 300 bps short – Polish MIL
DK2OM	7005,0	1818	04	03	INS		LSB			Indonesian pirates - singing
DK2OM	7010,0	vt	vd	03	ALB	no ITU	FSK8	125	1750	ALE, "RS0" - Tirana
DK2OM	7010,0	1847	06	03	INS		LSB			Indonesian pirates
DK2OM	7011,0	0735	16	03	RUS		F1B	50	500	Kaliningrad
DK2OM	7015,0	1827	04	03	INS		LSB			Indonesian pirates
DK2OM	7018,0	---	--	03	RUS	REA4	F1B	100	800	mostly idling – Russian airforce Moscow – ident at full

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										hour + 41 min. on F1A
DK2OM	7020,0	vt	vd	03	ALB		FSK8	125	1750	ALE, "CS004A" "RS004D" "CS004" - daily
DK2OM	7020,0	1818	02	03	INS		USB LSB			Indonesian pirates
DK2OM	7025,0	1844	06	03	INS		LSB			Indonesian pirates
DK2OM	7027,5	---	--	02	UKR	„V"	A1A			beacon "V" – Kyiv
DK2OM	7034,0 LSB	dly	01	03	CHN		PSK4A	60	2350	burst system "PRC-30" – 30 tones – 450 Hz pilot tone
DK2OM	7035,0	1857	06	03	INS		LSB			Indonesian pirates – playing music and talking about telephone
DK2OM	7039,0	---	--	03	RUS	C	A1A			Cluster beacon C - Moscow RUS Navy - "**RIW**"
DK2OM	7039,2	1832	24	03	RUS	F	A1A			Cluster beacon F - Vladivostok RUS Navy - **"RJS"**
DK2OM	7039,3	1832	24	03	RUS	K	A1A			Cluster beacon "K" Petropavlovsk Kamchatskiy - RUS Navy - Pacific fleet - **"RCC"** - daily – sometimes only "letter T"
DK2OM	7039,4	1832	24	03	RUS	M	A1A			Cluster beacon M – Magadan RUS Navy – **„RTS"**
DK2OM	**7040,0**	**ady**	**dly**	**03**	**I**		**A1A**			**IZ3DVW – uncoordinated and unwanted beacon**
DK2OM	7040,0	1805	04	03	INS		USB LSB			Indonesian pirates
DK2OM	7040,5	vt	dly	03	HRV		FSK8	125	1750	ALE, "9A5EX" "9A0ALE" – just for info
DK2OM	7049,5	vt	dly	03	HRV G F	9A0ALE M1DFO F6BAZ	FSK8	125	1750	Amateur ALE, just for info! daily – various times
DK2OM	7050,0	vt	dly	03	KGZ		FSK8	125	1750	ALE, "X" "810" "820615" "810698" – Kyrgyzstan MIL
DK2OM	7057,0	1919	27	03	RUS		PSK2A	120	2600	AT3004D - Moscow
DK2OM	7070,0	vt	vd	03	GEO	no ITU	FSK8	125	1750	ALE, "MV" "244" "686" "334" "204" "571" – daily active
DK2OM	7088,8	vt	vd	03	S	SL0FRO	A1A			7088.830 kHz - cw-trainee, Sweden - SL0FRO - just for info!
DK2OM	7089,8	---	--	03	TUR CYP		PSK8	2400	2400	Link11 - SLEW – aircraft – west of Cyprus
DK2OM	7099,5	vt	dly	03	HRV	9A0ZG	FSK8	125	1750	ALE, "9A0ZG" "9A5EX1P" "9A0OS" – daily - just for info!
DK2OM	7102,0	vt	dly	03	TWN		FSK8	125	1750	ALE, "BV4AS" – just for info!
DK2OM	7102,0	vt	vd	03	HRV SUI D	9A0MIL	FSK8	125	1750	ALE, "9A3MIL" "9A2KS" "HB9MHB" "9A0ZG" "9A4OS" "DK0ESD" – just for info!
DK2OM	7102,0	vt	dly	03	J		FSK8	125	1750	ALE, "JH1ESB" – just for info!
DK2OM	7110,0	vt	dly	03	HRV	9A0ALE	FSK8	125	1750	ALE, "9A0ALE" – just for info
DK2OM	7111,0	1600	30	03	RUS		F1B	75	250	Kaliningrad
DK2OM	7112,0 LSB	1838	19	03	CHN		PSK4A	60	2350	burst system "PRC-30" – 30 tones – 450 Hz pilot tone
DK2OM	7112,0	1345	27	03	RUS		F1B	75	250	Moscow
DK2OM	7114,0	1728	27	03	RUS		PSK2A	120	2600	AT3004D - Kaliningrad
DK2OM	7117,0	---	--	03	RUS	REA4	F1B	100	1000	mostly idling – Russian airforce Moscow – ident on CW at 1640 utc on the mark-QRG
DK2OM	**7120,0**	**1500**	**dly**	**03**	**SOM**		**A3E**		**9k**	**Radio Hargeisa – Somalia – daily – even audible in Australia and Japan**
DK2OM	7137,0	vt	dly	03	TWN		FSK8 LSB	125	1750	ALE, "EDKLT" "EVSNG" "ECCLT" "EFNGX" "EVNNM" "EVWRK" "EGFXA" "ECQUY" "EFYMO" "EWPEN"

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										"ECXKF" "EWRAJ" "ECHTD" Taiwanese navy
DK2OM	7137,0	1840	13	03	RUS		F1B	50	200	Kaliningrad
DK2OM	**7140,0**	**1700**	**dly**	**03**	**ERI ETH**		**A3E**		**9k**	**7140.024 kHz - Radio Eritrea disturbed by Radio Ethiopia by white noise emissions - daily**
DK2OM	7150,0	2040	01	03	FEa		FMOP		32k	Codar like ocean surface radar 2.6 sps – 7150 – 7182 kHz
DK2OM	7161,0	1833	27	03	FEa		FMOP		32k	Codar like ocean surface radar 2.6 sps – 7161 – 7193 kHz
DK2OM	7166,0	1004	21	03	RUS		PSK2A	120	2600	AT3004D -
DK2OM	**7181,6**	**1700**	**dly**	**03**	**ERI ETH**		**A3E**		**9k**	**7181,555 kHz - Radio Eritrea disturbed by Radio Ethiopia by white noise emissions - daily**
DK2OM	7183,0	vt	dly	03	SUI		FSK8	125	1750	ALE, "HB9MHB" – just for info!
DK2OM	7185,5	vt	dly	03	J TWN		FSK8	125	1750	ALE, "BV4AS" "JH1ESB" - just for info - daily
DK2OM	7186,0	1943	20	03	RUS		PSK4B	120	2600	AT3104D - Severomorsk
DK2OM	**7200,0**	**---**	**--**	**03**	**MMR**		**A3E**		**9k**	**Myanmar Radio**
DK2OM	10100,8	ady	dly	03	D		F1B	50	450	Baudot - German Weatherservice – legal!
DK2OM	10110,0	vt	dly	03	SNG	no ITU	FSK8	125	1750	ALE, "CN6" "68" – Singapore Navy - Changi Naval Base
DK2OM	10113,0	vt	vd	03	TUN	no ITU	FSK8	125	1750	ALE, "TUD" "STAT5" "STAT154"
DK2OM	10114,0	vt	dly	03	ALG	no ITU	FSK8	125	1750	ALE, "BSF" "ZEN" "CM2OR2"
DK2OM	10114,8	0640	dly	03	RUS		F1B	100	1000	CIS14 – Moscow
DK2OM	10115,0	vt	dly	03	MRC	no ITU	FSK8	125	1750	ALE, "100" "114" "203" "XXZ" – Western Sahara
DK2OM	10120,0	vt	dly	03	ALG	no ITU	FSK8	125	1750	ALE, "CM6" "01012016"
DK2OM	10123,0	vt	dly	03	ALG	no ITU	FSK8	125	1750	ALE, "CM3" "COF" "BSF" "CM2" "ESA" – Algerian Airforce
DK2OM	10124,0	vt	dly	03	ALG		FSK8	125	1750	ALE, "OEB" - ALG airforce
DK2OM	10129,0	vt	dly	03	ALG	no ITU	FSK8	125	1750	ALE, "CM1" "CTF" "772"
DK2OM	10136,0	vt	dly	03	ALG	no ITU	FSK8	125	1750	ALE, "CM3" "BLD" "CNC" "TF2"
DK2OM	**10144,0**	**ady**	**dly**	**03**	**D**	**DK0WCY**	**A1A**			**10144.000 kHz - DK0WCY – German aurora beacon – just for info!**
DK2OM	10145,5	vt	dly	03		JH1ESB	FSK8	125	1750	ALE, "JH1ESB" - just for info - daily
DK2OM	10145,5	vt	dly	03	TWN AUS	BV4AS	FSK8	125	1750	ALE, "BV4AS" "VK4SAA"– just for info!
DK2OM	14052,0	1056	23	03	RUS		PSK2A	120	2600	AT3004D - Kazan
DK2OM	14100,0	vt	dly	03	ALG	no ITU	FSK8	125	1750	ALE, "6206" "6204" "6212" "6202" "6203" "6207" "6217" "MTL" "IJI" – Mauritanian border – daily, all day
DK2OM	14102,0	1020	05	03	CHN		FMOP		10k	Chinese OTH radar – 66.66 sps – 3.8 sec bursts - foghorn
DK2OM	14105,0	1003	15	03	CHN		FMOP		10k	Chinese OTH radar – 66.66 sps – 4.0 sec bursts - foghorn
DK2OM	14109,0	vt	dly	03	TWN	HAM	FSK8	125	1750	ALE, "BV4AS" – daily - just for info!
DK2OM	14109,0	vt	dly	03	INS	HAM	FSK8	120	1750	ALE, "YD0OXH" – just for info!
DK2OM	14109,0	vt	dly	03	S HRV D		FSK8	125	1750	ALE, "SM3FXL" "9A4OS" "9A3BRV" "DK0ESD" - just for info!
DK2OM	14109,0	vt	vd	03	J		FSK8	125	1750	ALE, "JH1ESB" – just for info
DK2OM	14114,0	0937	13	03	RUS		PSK2A	120	2600	AT3004D – Far East Russia
DK2OM	14115,0 RF	1340	14	03	FIN		OFDM	37.5	2000	OFDM 45 – PSK2B - Helsinki
DK2OM	14116,0	0858	06	03	CHN		FMOP			Chinese OTH radar – 66.66 sps – 3.8 sec bursts - foghorn

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	14137,0	1054	02	03	CHN		FMOP		10k	Chinese OTH radar – 66.66 sps – 3.8 sec bursts - foghorn
DK2OM	14142,0	0936	11	03	CHN		FMOP		10k	Chinese OTH radar – 66.66 sps – 3.8 sec bursts - foghorn
DK2OM	14160,0	vt	dly	03	MRC		FSK8	125	1750	ALE, "9204" "9228" "9236"
DK2OM	14162,0	1101	23	03	RUS		PSK2A	120	2600	AT3004D - Moscow
DK2OM	14192,0	1108	23	03	RUS		F1B	50 75 50 100 100	500 500 200 500 200	RUS navy Kaliningrad - daily
DK2OM	14201,0	0857	06	03	CHN		FMOP			Chinese OTH radar – 66.66 sps – 3.8 sec bursts - foghorn
DK2OM	14204,0	1000	15	03	CHN		FMOP		10k	Chinese OTH radar – 66.66 sps – 3.8 sec bursts - foghorn
DK2OM	14218,0	0915	16	03	CHN		FMOP		10k	Chinese OTH radar – 10 sps – 102 sec blocks
DK2OM	14221,0	---	--	03	KGZ		F1B	50	200	CIS-50-50 - Bishkek – mostly idling - daily (if the band is open)
DK2OM	14238,0	0859	04	03	CHN		FMOP		10k	Chinese OTH radar – 50 sps – 5 sec bursts
DK2OM	14243,5	0929	13	03			F1B	600	600	DPRK-FSK 600
DK2OM	14253,0	0925	13	03	CHN		FMOP		10k	Chinese OTH radar – 66.66 sps – 3.8 sec bursts - foghorn
DK2OM	14255,0	0818	01	03	RUS		PSK2A	120	2600	AT3004D – Samara – also 26.03.2018 at 1010 utc
DK2OM	14260,0	vt	dly	03	SRB	YU1BI	FSK8	125	1750	ALE, "YU1BI" – just for info!
DK2OM	**14260,0**	**---**	**--**	**02**	**UKR**		**A3E**			**female voice with encrypted msgs – figures – "SZRU" = Foreign Intelligence Service of Ukraine in Rivne**
DK2OM	14295,0	vt	dly	03	SRB	YU1BI	FSK8	125	1750	ALE, "YU1BI" – just for info!
DK2OM	**14295,2**	**ady**	**dly**	**03**	**TJK**		**A3E**		**9k**	**3rd from Radio Tajik on 4765 kHz – daily, all day**
DK2OM	14304,0	1024	05	03	CHN		FMOP		10k	Chinese OTH radar – 66.66 sps – 3.8 sec bursts
DK2OM	14304,0	0902	16	03	CHN		FMOP		160k	14304 - 14464 - Chinese wideband OTH radar – 10 sps
DK2OM	14307,0	0936	03	03	CHN		FMOP		10k	Chinese OTH radar – 50 sps – 5 sec bursts
DK2OM	14310,0	1025	21	03	CHN		FMOP		10k	Chinese OTH radar – 83 sps – 3.0 sec bursts - foghorn
DK2OM	14320,0	1020	09	03	CHN		FMOP		10k	Chinese OTH radar – 66.66 sps – 3.8 sec bursts - foghorn
DK2OM	14322,0	0932	11	03	CHN		FMOP		10k	Chinese OTH radar – 66.66 sps – 7.6 sec bursts - foghorn
DK2OM	14322,0	0924	30	03	CHN		FMOP		10k	Chinese OTH radar – 66.66 sps – 3.8 sec bursts - foghorn
DK2OM	14326,0	1018	09	03	CHN		FMOP		10k	Chinese OTH radar – 66.66 sps – 3.8 sec bursts - foghorn
DK2OM	14329,0	0937	03	03	CHN		FMOP		10k	Chinese OTH radar – 50 sps – 5 sec bursts
DK2OM	14334,0	0959	15	03	CHN		FMOP		10k	Chinese OTH radar – 66.66 sps – 3.8 sec bursts - foghorn
DK2OM	14342,0	0927	13	03	CHN		FMOP		10k	Chinese OTH radar – 66.66 sps – 3.8 sec bursts - foghorn
DK2OM	14343,0	0929	27	03	CHN		FMOP		10k	Chinese OTH radar – 66.66 sps – 3.8 sec bursts - foghorn
DK2OM	14346,0	vt	dly	03	POR		FSK8	125	1750	ALE, "CT2IXQ" just for info – various times, daily
DK2OM	14345,9	vt	dly	03	THA	HS0ZEA	A1A			HS0ZEA beacon – 14345.934 kHz - every 5 minutes – daily - just for info!
DK2OM	14350,0	0854	02	03	E		USB			Spanish fisherman and his wife – – just for info – daily at 0830 utc
DK2OM	**14351,6**	**---**	**--**	**03**	**E**		**OFDM**	**30**	**2700**	**OFDM 73 + intro tone –**

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
							PSK4A			**HFD+VL - experimental transmissions – Las Palmas – just for info!**
DK2OM	**18080,0**	**---**	**--**	**03**	**TWN**		**A3E/BC**			**Sound of Hope – Taiwan and Chinese BC jammer – daily at 06 utc and later**
DK2OM	18100,0	vt	dly	03	MRC	no ITU	FSK8	125	1750	ALE, "A2" "A4" "A5" "A7" "S6" – "C3" "R3" "G401" "CD" "09" "G2" "LG6" "G301" "ELJADIDNET4" - daily, various times
DK2OM	18106,0	vt	vd	03	POR	CT2GOY	FSK8	125	1750	ALE, "CT2GOY" – just for info!
DK2OM	18106,2	vt	dly	03	TWN		FSK8	125	1750	ALE, "BV4AS" – just for info!
DK2OM	18107,0	0824	03	03	RUS	RDL	F1B	50	200	CIS-50-200 - Moscow – idle and traffic – daily - Russian navy – shared band!
DK2OM	18117,5	---	--	03	POR	CT2IXQ	FSK8	125	1750	ALE, "CT2IXQ" – just for info
DK2OM	18140,0	---	--	03	SRB	YU1BI	FSK8	125	2600	ALE, "YU1BI" – just for info!
DK2OM	18150,0	---	--	02	RUS		F1B	100	1000	harmonic from 9075 (100 Bd, 500 Hz) - Kaliningrad
DK2OM	**21000,0**	**---**	**--**	**03**	**B**		**USB**			**Brazilian pirates – Rio de Janeiro with North Brazil – very often**
DK2OM	**21000,0**	**---**	**--**	**03**	**SDN**		**USB**			**MFA Sudan – Khartoum with emba Yemen – voice traffic**
DK2OM	**21002,2**	**---**	**--**	**03**	**SDN**	**!0000 !9999 !8888**	**F1B**	**100**	**170**	**21002.15 kHz - Pactor 1 encrypted – MFA Sudan – Khartoum with emba Yemen**
DK2OM	21096,0	vt	dly	03	INS	YD0OXH	FSK8	125	1750	ALE, "YD0OXH3" – daily, various times - just for info!
DK2OM	21096,0	vt	vd	03	G		FSK8	125	1750	ALE, "M1DFO" – just for info!
DK2OM	21141,0	0949	24	03	CHN		FMOP		10k	Chinese OTH radar – 42 sps – 6.0 sec bursts
DK2OM	21145,0	vt	dly	03	MRC	no ITU	FSK8	125	1750	ALE, "A" "B301" "C3", "IR4" "H4" "IR6" "T4" "E4" "A2" "CD" "K3" "KB2" "J5" "J52" "GR2" "GS4" "R3" "R301" "R33" "R8" "R5" "Y1" "S51" "S3" "S4" "S512" "S552" "G2" "G501" - various times, daily
DK2OM	21145,8	ady	dly	03	I	IZ3DVW	A1A			IZ3DVW beacon – 21145,790 kHz – daily, all day - not coordinated with IARU
DK2OM	21154,0	0932	16	03	CHN		FMOP		10k	Chinese OTH radar – 42 sps – bursts - jumping
DK2OM	21190,0	---	--	03	RUS		F1B	100	1000	harmonic from 10595 kHz - Moscow
DK2OM	21218,0	0935	16	03	CHN		FMOP		10k	Chinese OTH radar – 42 sps – bursts - jumping
DK2OM	21292,0	0929	16	03	CHN		FMOP		160k	21292 - 21452 - Chinese wideband OTH radar – 10 sps
DK2OM	21400,0	---	--	03	RUS		F1B	50	2000	harmonic from 5350 kHz – area of Moscow
DK2OM	21438,0	---	--	03	RUS	RCV	A1A			RIP90 de RCV - RUS Navy Sevastopol - daily
DK2OM	21446,0	ady	dly	03	THA	HS0ZEA	A1A			HS0ZEA beacon – every 5 minutes - just for info!
DK2OM	25000,0	---	--	03	FIN		A3E			time signal Helsinki – just for info – carrier on 25000 – dots on 25001 and 24999 – daily, all day – just for info!
DK2OM	**28000,0**	**vt**	**vd**	**03**	**B**		**A3E**			**Brazilian CBers – 28000 – 28325 – daily, all day - no change**
DK2OM	**28000,0**	**---**	**--**	**03**	**CIS**		**F3E**			**28000 – 29700 numerous CIS taxi nets – no change**
DK2OM	28025,0	---	--	03	POR		F1B	51	320	F1B bursts - west of Lisbon –

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										Atlantic Ocean - Enagal GPS buoy
DK2OM	28051,5	---	--	03	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoy
DK2OM	28075,0	---	--	03	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoy
DK2OM	28085,1	---	--	03	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoy
DK2OM	28146,0	---	--	03	ARG B		FSK8	125	1750	ALE, “LU8EX” “PY2TI” “DL1” – just for info!
DK2OM	28212,0	---	--	03	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoy
DK2OM	**28435,0**	**----**	**--**	**03**	**E**		**F1B**	**81.9**	**140**	**Datawell-buoy “Waverider” – 28435.040 kHz – Costa del Sol – Malaga**
DK2OM	28459,8	---	--	03	GAB		A3E		1060	carrier and dots in USB and LSB, bursts every 60 sec – carrier – Gabon - daily
DK2OM	**28499,8**	**---**	**--**	**03**	**MEa**		**F1B**	**81.9**	**140**	**Datawell-buoy “Waverider” – 28499.875 kHz – Persian Gulf**
DK2OM	28746,5	---	--	03	GAB		A3E			carrier and dots in USB and LSB, bursts every 60 sec – carrier – Gabon
DK2OM	28751,6	---	--	03	GAB		A3E		1080	carrier and dots in USB and LSB, bursts every 60 sec – carrier – Gabon
DK2OM	28960,0	---	--	03	IRN		FMOP		50k	Iranian radar bursts – 150 and 313 sps – long lasting - daily
DK2OM	29114,0	---	--	03	RUS		F1B	100	2000	harmonic from14557.0 kHz - Moscow
DK2OM	**29249,9**	**---**	**--**	**03**	**E**		**F1B**	**81.9**	**140**	**Datawell-buoy “Waverider” – 29249.880 kHz – Spain Fuerteventura - daily, all day**
DK2OM	**29375,0**	**---**	**--**	**03**	**I**		**F1B**	**81.9**	**140**	**Datawell-buoy “Waverider” – 29374.898 kHz – Gallipoli, South Italy - daily, all day**
DK2OM	**29387,5**	**---**	**--**	**03**	**IND**		**F1B**	**81.9**	**140**	**Datawell-buoy “Waverider” – 29387.460 kHz – Indian NW coast, close to Pakistan - daily, all day**
DK2OM	**29400,0**	**---**	**--**	**03**	**USA**		**F1B**	**81.9**	**140**	**Datawell-buoy “Waverider” – 29400.070 kHz - USA north-east coast – NY daily, all day**
DK2OM	**29450,0**	**---**	**--**	**03**	**MRC**		**F1B**	**81.9**	**140**	**Datawell-buoy “Waverider” – 29449.863 kHz - area of El Aaiun – Morocco - daily, all day**
DK2OM	**29500,0**	**---**	**--**	**03**	**G**		**F1B**	**81.9**	**140**	**Datawell-buoy “Waverider” – 29499.974 kHz- area of Gibraltar – daily, all day**
DK2OM	**29525,0**	**---**	**--**	**03**	**MRC**		**F1B**	**81.9**	**140**	**Datawell-buoy “Waverider” – 29524.990 kHz - Agadir - Morocco – daily, all day**
DK2OM	**29625,0**	**---**	**--**	**03**	**USA**		**F1B**	**81.9**	**140**	**Datawell-buoy “Waverider” – 29625.024 kHz - USA north-east coast – daily, all day**
DK2OM	29685,0	---	--	03	I		VFT		2300	Italian MIL – Brescia - daily
DK2OM	29699,5	---	--	03	I		VFT		1600	Italian MIL – Brescia - daily
DK2OM	**50100,0**	**vt**	**dly**	**03**	**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	5359.5-5365	1330	20	03	DNK		PSK8	NATO Aarhus. Daily all day during the month. Primary user-legal. Makes all SSB contacts on the new worldwide allocation impossible.
IRTS	3535.5	1338	17	03	IRL		USB	2 Irish fishermen with a Cork accent just ending their chat.
IRTS	3570	1256 to 1301	13	03	IRL		USB	2 Irish fishermen. One of them has a voice like Dinny Byrne from "Glenroe".SE accent. Names: Mike, Pat
IRTS	3727	1427	12	03	POR		USB	Portuguese fishermen. Very strong. Loud motor noise from both ships.
IRTS	5354	0200	04	03	MRC or MM		USB	2 Moroccan fishermen on and off until 0300z.
IRTS	5360	1915-1930	09	03	UK		USB	An English Ham keeps using this frequency outside the UK allocation in spite of being told by several Hams that he is outside of the UK band.
IRTS	5353.13	1302 to 1318	13	03	IRL		USB	2 Irish fishermen. Bad audio from both of them. Plenty of foul language. Mentioned: Tramore, Baltimore. A third one named Ger joins them after a while.SE Ireland accent.
IRTS	5400	2050	26	03	E or MM		USB	2 Spanish fishermen chatting. EI CW spot frequency.
IRTS	5398.5	1100	07	03	E		Digital	Digital signals from Barcelona. Heard several times during the month during daylight hours. Medium strength signal. Pattern like last autumn.
IRTS	5398.5	1418	07	03	HOL		USB	A Dutch Ham calls into a SOTA activation using a frequency outside the Dutch allocation. Frequency is a UK/EI spot frequency.
IRTS	5405	2053	01	03	E or MM		USB	2 Spanish fishermen
IRTS	7050	1435	12	03	UKR /RUS		LSB	Ukrainian-Russian radio war. Nearly every day with MX and propaganda.
IRTS	7055	1150	13	03	UKR /RUS		LSB	More propaganda from Russia and the Ukraine. Daily until late evening.
IRTS	7112	2030 to 2115	20	03	CHN		Digital	Chinese burst system "PRC30" 450 Hz tone. Again heard on the 21st at the same time.
IRTS	7113	1430 to 1630	27	03			F1B	Very strong, wrecks part of the band.
IRTS	7115	1605	27	03			Digital	Another big digital signal making parts of the band unusable.
IRTS	7120	1750	06	03	SOM		AM	Radio Hargaysa. Daily, strong
IRTS	7140	1803	06	03	ERI		AM	Radio Eritrea. Daily, strong. Sometimes with White Noise from ETH.
IRTS	7180	1755	06	03	ERI		AM	Radio Eritrea. Daily, strong. Sometimes with White Noise from ETH.
IRTS	7186	2045 to 2100	20	03	RUS		Digital	Russian military Severomorsk AT3104D. Heard again on the 21st at the same time.
IRTS	7195.5	1325	14	03			Digital	Huge digital signal
IRTS	7205	1758	06	03	CHN		AM	Radio China International splattering down to 7198 KHz. Daily.
IRTS	10102	1210	16	03			FMCW	Radar from 10102 to 10124 KHz
IRTS	10131.2	1458	03	03	MRC or MM		USB	2 Moroccan fishermen chatting
IRTS	14048	1928	15	03	E or MM		USB	2 Spanish fishermen, weak signals.
IRTS	14098	1010	28	03			FMCW	Radar from 14098 to 14268 KHz.
IRTS	14100	1445	12	03	UKR /RUS		LSB	2nd harmonic of 7050 KHz.
IRTS	14110	0913	01	03			FMCW	Radar from 14110 to 14280 KHz
IRTS	14192	1255	11	03	RUS		F1B	RUS navy. Every day during daylight hours.
IRTS	7109 to 7114	1345	20	03			Digital	Strong digital signal
IRTS	14238	1230	31	03			FMCW	Radar from 14238 to 14401 KHz.

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	DETAILS
IRTS	14295	1135	09	03	TJK		AM	3rd harmonic of Radio Tadjikistan. Daily all daylight hours.
IRTS	21058	1103	07	03			FMCW	Radar from 21058 to 21082 KHz
IRTS	21279	1123	06	03			FMCW	Radar from 21279 to 21289 KHz

KARS – Kuwait – 9K2RR (Faisal)

MRASZ – Hungary - HA7PL (Laci)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	DETAILS
MRASZ	3501,0	1704	11	3			F1B	500	
MRASZ	3548,0	1743	10	3			F1B	200	
MRASZ	3578,0	1745	10	3			F1B	250	
MRASZ	3767,0	1828	29	3			PSK2		AT3004D
MRASZ	3801,0	1751	10	3			PSK2		AT3004D
MRASZ	6999,0	0857	11	3			PSK2		AT3004D
MRASZ	7015,0	1741	10	3			F1B	200	
MRASZ	7015,0	0858	11	3			F1B	200	
MRASZ	7033,0	1450	16	3			PSK2		AT3004D
MRASZ	7050,0	0947	3	3			LSB		music, chaos
MRASZ	7055,0	0858	11	3			LSB		chaos
MRASZ	7111,0	0703	30	3			F1B	250	
MRASZ	7111,0	0730	31	3			F1B	250	
MRASZ	7120,0	1804	10	3	SOM		A3E		R. Hargaysa,
MRASZ	7120,0	1655	11	3	SOM		A3E		R. Hargaysa,
MRASZ	7120,0	1805	15	3	SOM		A3E		R. Hargaysa,
MRASZ	7120,0	1922	16	3	SOM		A3E		R. Hargaysa,
MRASZ	7120,0	1831	24	3	SOM		A3E		R. Hargaysa,
MRASZ	7120,0	1821	29	3	SOM		A3E		R. Hargaysa,
MRASZ	7140,0	1804	10	3	ERI		A3E		R. Eritrea
MRASZ	7140,0	1804	15	3	ERI		A3E		R. Eritrea
MRASZ	7179,0	1451	16	3			PSK2		AT3004D
MRASZ	7181,5	1805	10	3	ERI		A3E		R. Eritrea
MRASZ	7181,5	1656	11	3	ERI		A3E		R. Eritrea
MRASZ	7181,5	1823	29	3	ERI		A3E		R. Eritrea
MRASZ	7195,0	1350	30	3			OTHR		
MRASZ	10100,8	0708	30	3			F1B	450	
MRASZ	10114,7	0706	30	3			F1B	1000	
MRASZ	14074,0	0800	30	3			USB		Spanish?

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.										**March 2018**
	7187.3	1808	20	03	Rus		lsb	120	3.3kHz	AT3104D Data 12 sub carrier, with 2 pilot carriers spaced of 3.3kHz
	14320	0751	27	03			CW		cw+30kHz	Intermittent carrier: ON 2s, off 1sec with 30kHz clicks S9+10
	18080	0950	18	03			fmcw		20kHz	OTH radar S9+10 pulsed 20ms
	21190	0855	15	03			fmcw		10kHz	OTH radar S9 pulsed 40ms

REP – Portugal – CT4AN (Jose Francisco)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REP	3500	21.51	19	03	G		J3E-U			Strongly accented english fishery
REP	3540	18.21	11	03	E		J3E-U			Spanish fishery
REP	**3550**	**07.01**	**06**	**03**	**F**		**A3E**			**French amateurs ignoring IARU Bandplan with AM qso's, dly**
REP	3560	22.00	06	03	E		J3E-U			Spanish fishery
REP	3560	21.00	11	03	E		J3E-U			Spanish fishery
REP	3560	08.17	25	03	E		J3E-U			Spanish fishery
REP	3568	09.15	25	03			PSK8			STANAG 600/L unid, legal, FYI only
REP	3571	07.31	25	03	E		J3E-U			Spanish fishery
REP	3588	10.30	01	03	E		J3E-U			Spanish fishery
REP	3595	07.02	06	03	E		J3E-U			Spanish fishery
REP	3640	01.12	11	03	RUS		FSK	75	250	Russian mil T-600 modem CIS50
REP	3640	08.00	25	03	G	XSS	PSK2			XSS Ale UK DHCFS Forest Morr, legal, FYI only
REP	3664	22.53	09	03	E		J3E-U			Spanish fishery
REP	3680	08.48	25	03	F		J3E-U			French fishery, discussing fish prices in euros
REP	3688	21.03	14	03	RUS		J3E-L			Russia/Ukraine war propaganda
REP	5361	21.47	19	03			PSK4			STANAG 4285 NATO protocol 600/L, legal, FYI only
REP	7000	22.05	05	03	E		J3E-U			Spanish fishery, daily
REP	7070	19.37	20	03			FSK8	2400		Unid ALE sounding
REP	7104	19.22	21	03			FMOP			Wide OTH radar 10s/s/160kHz
REP	**7120**	**18.15**	**06**	**03**	**SOM**		**A3E8KBC**			**Radio Hargueysa, Somaliland, dly**
REP	**7140**	**18.15**	**06**	**03**	**ETH**		**A3E8KBC**			**Radio of the Broad Masses of Eritreia, dly**
REP	**7181**	**18.12**	**06**	**03**	**ETH**		**A3E8KBC**			**Radio of the Broad Masses of Eritreia, dly**
REP	7186	19.00	20	03	R		PSK4			Russian AT3004 modem - CIS12
REP	10110	09.55	17	03	MRC		J3E-U			Fishery
REP	10130	20.55	09	03	B		J3E-U			Brazilian OM/YL chatting
REP	14020	18.05	24	03	E		J3E-U			Spanish fishery, Galicia
REP	14255	17.01	02	03			F1B	75	250	RTTY Encrypted
REP	14265	13.00	18	03	RUS		F1B	50	250	CIS50
REP	18075	18.10	18	03			FMCW	50	20k	OTH radar
REP	28075	17.49	10	03	B		A3E			Brazilian CB´rs, daily
REP	28115	18.41	15	03	B		A3E			Brazilian CB´rs, daily
REP	28120	09.29	23	03	E		F1B	50	200	Enagal buoy
REP	28165	15.00	23	03	RUS		F3E			Russian taxi dispatcher
REP	28255	19.16	18	03	B		A3E			Brazilian CB´rs, daily
REP	28310	12.05	06	03			FMCW			OTH radar 50s/s/20kHz
REP	29135	13.14	11	03	RUS		F3E			Taxi dispatcher

RSGB - Great Britain – G0MGX (Mark)

SRAL – Finland – OH2BLU (Pekka)

Society	kHZ	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	REMARKS
SRAL	7000.0	1040-1100	1	3		UiMUX	PSK2	120	2600	
SRAL	7011.0	0700-0745/	6	3	RUS	UiPTR	F1B		500	
SRAL	7015,0	0500-2000	*	3		UiPTR	F1B			days: 10. - 13.
SRAL	7016.0	0900-1030/	6	3		UiPTR	F1B		250	
SRAL	7018.0	0945-1622/	15	3		UiMUX	PSK2	120	2600	
SRAL	7022.0	0630-1300	*	3		UiMUX	PSK2	120	2600	days: 21. 25. 27.
SRAL	7033.0	0700-1530	*	3		UiMUX	PSK2	120	2600	days: 16. 19. 20.

Society	kHZ	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	REMARKS
SRAL	7035.0	0600-0710/	27	3		UiMUX	PSK2	120	2600	tune up carr on 7033,8 kHz
SRAL	7037.5	1335	13	3		ITLZ	A1A			
SRAL	7048.0	0630-0650/	3	3		UiCW	A1A			QTC 5BL
SRAL	7055.0	0530-0655	28	3		UiPTR	F1B		200	
SRAL	7057.0	1000-1349/	*	3		UiMUX	PSK2	120	2600	days: 13. 19.
SRAL	7057.5	0615-1510	*	3		6FSO etc	A1A			days: 20. - 23. 5F
SRAL	7060.0	0700-0723	5	3		UiMUX	PSK2	120	2600	
SRAL	7076.0	'0750	8	3		UiPTR	F1B		200	
SRAL	7081.0	0645-1630	23	3		UiMUX	PSK2	120	2600	
SRAL	7099.0	0700-0937/	17	3		UiPTR	F1B		200	
SRAL	7110.0	0900-1415	20	3		UiMUX	PSK2	120	2600	
SRAL	7111.0	0540-1635/	*	3	RUS	UiPTR	F1B		250	days: 30. 31.
SRAL	7112.0	1025-1105	*	3		UiPTR	F1B		250	
SRAL	7114.0	0800-0930	*	3		UiMUX	PSK2	120	2600	days: 1. 12. 19.
SRAL	7120,0	/0320-0530	dly	3	SOM	R.Hargeisa	A3E			
SRAL	7120,0	1330-1400/	dly	3	SOM	R.Hargeisa	A3E			
SRAL	7120,0	/1500-2000/	dly	3	SOM	R.Hargeisa	A3E			
SRAL	7134.0	1100-1400	*	3		UiPTR	F1B			days: 5. 13.
SRAL	7140.0	'0945	19	3		UiMUX	PSK2	120	2600	
SRAL	7140,0	0300-0600	dly	3	ERI	VoBME	A3E			Jammed by ETH
SRAL	7140,0	1345-1847/	dly	3	ERI	VoBME	A3E			Jammed by ETH
SRAL	7142.0	0750-1300	*	3		UiPTR	F1B		250	days: 16. 30.
SRAL	7142.0	0655-1040/	27	3		UiMUX	PSK2	120	2600	
SRAL	7144.0	0640-1125/	*	3		UiMUX	PSK2	120	2600	days: 10. 27.
SRAL	7146.0	1245-1445	22	3		UiMUX	PSK2	120	2600	
SRAL	7160.0	0645-0715	20	3	RUS	RBL88	A1A			
SRAL	7160.0	0800-0900	*	3		UiPTR	F1B		250	days: 12. 29.
SRAL	7162.0	0730-1945	*	3		PVO '9'	A1A			time stamp, days: 6. - 15. 18. 19.
SRAL	7164.0	0640-0705	*	3		UiCW / carr	A1A / N0N			
SRAL	7166.0	0915-1410	*	3		UiMUX	PSK2	120	2600	days: 20. 21.
SRAL	7171.0	/0703-1300	*	3		UiMUX	PSK2	120	2600	days: 9. 12. 15. 19. 27. 29.
SRAL	7172.0	1325-1350/	2	3		UiCW	A1A			5BL
SRAL	7172.0	1235	30	3		UiMUX	PSK2	120	2600	
SRAL	7176.0	'0750	8	3		UiPTR	F1B			
SRAL	7178.5	0820-1030	19	3		EILC	A1A			
SRAL	7178.5	0730-0738	27	3	RUS	kanal 75	A3E			Russ fem "priom"

Society	kHZ	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	REMARKS
SRAL	7178.5	0738-1005/	27	3	RUS	UiMUX	2xPSK	120	2x2600	sub carr +/- 3300 Hz
SRAL	7180.0	0300-0710	*	3	ERI	VoBME	A3E			days: 15. - 31. Jammed by ETH
SRAL	7180.0	1330-1847/	*	3	ERI	VoBME	A3E			days: 15. - 31. Jammed by ETH
SRAL	7181,55	0300-0710	*	3	ERI	VoBME	A3E			days: 1. - 14. Jammed by ETH
SRAL	7181,55	1330-1847/	*	3	ERI	VoBME	A3E			days: 1. - 14. Jammed by ETH
SRAL	7182.0	1410-1610	31	3		UiCarr/ PTR	N0N/ F1B		250	QTC, 5BL
SRAL	7192.9	0750-1400/	4	3		UiCarr/ PTR	N0N/ F1A		200	
SRAL	7184.0	0645-0915	22	3	RUS	UiMUX	PSK2	120	2600	
SRAL	7186.0	0615-1820	*	3	RUS	UiMUX	PSK2	120	2600	days: 20. - 24. carrier on 7184 kHz
SRAL	7198,0	0500-1542/	*	3		UiMUX	PSK2	120	2600	days: 8. 14. 15. 16.
SRAL	7200.0	0820-1200	20	3		UiMUX	PSK2	120	2600	
SRAL	10 MHz			3	RUS	29B6	FMCW			25/50Hz ,15 kHz (WebSDR 15d)
SRAL	14221.0	0500-0600/	*	3	KAZ	UiPTR	F1B		200	days: 1. 6. 7. 8. 14. 15. 20. 21. 24. - 31.
SRAL	14240.0	'0750	4	3		UiPTR	F1B		250	
SRAL	14252.0	/0900-1010	1	3		UiPTR	F1B		250	
SRAL	14253.0	0630-0820	*	3		UiPTR	F1B		250	days: 5. 12.
SRAL	14255.0	0815-0900/	1	3		UiMUX	PSK2	120	2600	
SRAL	14295,0	0500-11645	*	3	TJK	R Tojikiston	A3E			3f 4765,00 kHz, Yangiyul TX. days: 1. -25.
SRAL	18 MHz	1000-1102/	14	3	CYP / TUR	UiOTHR	FMCW			25/50Hz / 20 kHz, (WebSDR 20d)
SRAL	21 MHz	0900-1510	*	3	CYP / TUR	UiOTHR	FMCW			25/50Hz / 20 kHz, days: 6. 7. (WebSDR 14d)
SRAL	21438,0			3	RUS	RCV	A1A			
SRAL	24 MHz			3		UiOTHR	FMCW			(WebSDR 0d)
SRAL	28 MHz			3	IRN	UiOTHR	FMCW			307 & 870 Hz / 60 kHz – 300 kHz
SRAL	28960,0			3	IRN	UiOTHR	FMCW			150 & 313 Hz / 60 kHz
SRAL	28 MHz			3		UiOTHR	FMCW			25/50Hz / 20 kHz (WebSDR 0d)
SRAL	28 MHz			3	RUS	Taxi disp.	F3E			0 reports

USKA – Switzerland – HB9CET (Peter)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
80m band informational only! - Amateur co-primary, shared with other also primary allocated services!										
USKA	3503.0 VFO USB	2008	08	03			PSK8	2400	~2k7	MIL 188-110A
USKA	3505.0	1104	22	03			J7D	12x120	2k7	BPSK; CIS12
USKA	3511.0	0851	21	03			J7D	12x120	2k7	BPSK; CIS12
USKA	3525.0	2150	05	03			DQPSK	14x75	5k9	LINK 11 CLEW; DSB mode often
USKA	3527.0	2139	04	03			F1B	50	200	almost daily

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	3528.0	1637	22	03			J7D	12x120	2k7	BPSK; CIS12
USKA	3532.0	1531	28	03			DQPSK	14x75	5k9	LINK 11 CLEW; DSB Mode
USKA	3547.9	1617	08	03			A1A			Jammer; fast dots; stupid and absolutly illegal!
USKA	3548.0	1617	08	03			F1B	50	200	almost daily
USKA	3549.0 VFO USB	2209 1636	05 22	03			PSK8	2400	~2k7	MIL188-110A mod (Hybrid), preamble 4 tones, PSK4 75Bd 450Hz spacing often
USKA	3552.0 VFO USB	2207	05	03			PSK8	2400	2k4	Stanag 4285 often
USKA	3557.0	0854	21	03			F1B	75	200	often
USKA	3564.0	2242	20	03			J7D	12x120	2k7	BPSK; CIS12
USKA	3581.0	1259	21	03			J7D	12x120	2k7	BPSK; CIS12
USKA	3591.0	2201	05	03			DQPSK	14x75	5k9	LINK 11 CLEW; DSB Mode
USKA	3591.0	0858	21	03			OFDM		2k8	with pilot tone @3k3
USKA	3592.0	0851	22	03			F1B	75	850	
USKA	3608.0	2212	05	03			F1B	50	200	often
USKA	3631.0 VFO USB	2155	05	03			PSK8	2400	~2k7	MIL188-110A mod (Hybrid), preamble 4 tones, PSK4 75Bd 450Hz spacing often
USKA	3667.0	1016	24	03			F1B	75	250	
USKA	3697.0 VFO USB	2157	05	03			PSK8	2400	~2k7	MIL188-110A mod (Hybrid), preamble 4 tones, PSK4 75Bd 450Hz spacing
USKA	3704.0	1634	22	03			J7D	12x120	2k7	BPSK; CIS12
USKA	3743.0 VFO USB	2212	06	03			PSK8	2400	~2k7	MIL 188-110A mod (Hybrid), preamble 4 tones, PSK4 75Bd 450Hz spacing often
USKA	3767.0	2247	28	03			J7D	12x120	2k7	BPSK; CIS12
USKA	3772.0	1630	22	03			J7D	12x120	2k7	QPSK; CIS12
USKA	3780.0	1013	24	03			F1B	75	200	
USKA	3784.0	1516	28	03			J7D	12x120	2k7	BPSK; CIS12
USKA	3791.0	1509	28	03			F1B	75	200	
USKA	3797.0	1513	28	03		RJV	A1A	15wpm		letters and figures in groups
USKA	5361.8 VFO USB	2139	04	03	DNK		PSK8	2400	2k4	STANG 4285; reported as HQ Danish Navy in Aarhus: legal !
USKA	7000.0	2142	04	03			J3E-U			Fishery (spanish)
USKA	7010.0	1859	09	03		920006	MFSK8	125	1750	ALE, MIL 188-141A
USKA	7015.0	1521	10	03			F1B	50	200	
USKA	7022.0	1304	21	03			J7D	12x120	2k7	BPSK; CIS12
USKA	7026.0	1245	27	03			J7D	12x120	2k7	BPSK; CIS12 often
USKA	7055.0	1616	08	03			J3E-L		~2k1	Voice and Music almost daily
USKA	7064.0	2255	20	03			J7D	12x120	2k7	BPSK; CIS12
USKA	7081.0	0856	23	03			J7D	12x120	2k7	BPSK; CIS12
USKA	7082.0	2100	08	03			FMOP	66.66 sps	10k	Burst system
USKA	7082.0	2149	08	03			FMOP	47 sps	10k	Burst system (various sps)
USKA	7083.0	2057	08	03			FMOP	10 sps	160k	OTHR
USKA	7107.8 VFO USB	2259	07	03		var	F1B	100	170	CODAN Selcall
USKA	7111.0 VFO LSB	2301	07	03			BPSK	30x60Bd	~2k5	Burst system; tone spacing 75 Hz Preamble 4x PSK 60Bd, spacing 600Hz; Pilottone at 450Hz
USKA	7112.0 VFO LSB	2256	20	03			BPSK	30x60Bd	~2k5	Burst system; tone spacing 75 Hz Preamble 4x PSK 60Bd, spacing 600Hz; Pilottone at 450Hz
USKA	7112.0	1112	26	03			F1B	75	250	often
USKA	7113.8 VFO USB	2251	07	03		var	F1B	100	170	CODAN Selcall
USKA	7120.0	1612	08	03	SOM		A3E			BC; Radio Hargaysa almost daily
USKA	7137.0	2105	08	03			F1B	50	200	
USKA	7140.0	1612	08	03	ERI		A3E		~8k	BC, massively jammed
USKA	7140.0	1612	08	03					20k	Jammer, white noise
USKA	7142.0	0950	16	03			F1B	75	250	
USKA	7143.8	2256	07	03		var	F1B	100	170	CODAN Selcall

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
	VFO USB									
USKA	7144.0	1037	29	03			J7D	12x120	2k7	BPSK; CIS12
USKA	7149.0	1044	29	03			J7D	12x120	2k7	BPSK; CIS12
USKA	7166.0	0835	21	03			J7D	12x120	2k7	BPSK; CIS12
USKA	7176.0	2253	20	03			J7D	12x120	2k7	BPSK; CIS12
USKA	7180.0	1614	08	03	ERI?		A3E		~8k	BC, massively jammed
USKA	7180.0	1614	08	03					~24k	Jammer, white noise often
USKA	7186.0	0849	21	03			J7D	12x120	2k7	QPSK; CIS12 (long lasting) often
USKA	7186.0	1101	22	03			J7D	12x120	2k7	BPSK; CIS12 often
USKA	7197.0	2217	05	03	TUR	342013	MFSK8	125	1750	ALE, MIL 188-141A
USKA	7197.0	2220	05	03	TUR	355013	MFSK8	125	1750	ALE, MIL 188-141A
USKA	7197.0	2223	05	03	TUR	365013	MFSK8	125	1750	ALE, MIL 188-141A
USKA	14020.0	1803	24	03			J3E-U			Fishery (Spanish)
USKA	14050.0 VFO USB	1054	23	03			J7D	12x120	2k7	BPSK; CIS12 system
USKA	14162.0	1101	23	03			J7D	12x120	2k75	BPSK; CIS12
USKA	14192.0	1106	23	03			F1B	50	200	often
USKA	14253.0	1113	26	03			F1B	75	250	
USKA	14255.0	1008	26	03			J7D	12x120	2k7	BPSK; CIS12
USKA	14284.0	0954	16	03			F1B	75	500	maybe harmonic of 7142
USKA	18080.0	1118	26	03			FMCW	25 sps	20k	OTHR

Veron – Netherlands – PG1R (Ruud)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SHIFT	DETAILS
VERON	3517,0	2030	13	03	CIS	GWA3	A1A		5POL de GWA3 QSA no QSY 32559
VERON	3525,0	2105	19	03	CIS	8TM9	A1A		Calls to: AYGO A6IN D1BS J9AO SMDY YBCJ PPMO
VERON	3527,0	2032	13	03		UiPTR	F1B		Revs
VERON	3538,0	2115	19	03	CIS	T8IQ	A1A		T8IQ QTC 604 DDDDD 5BL
VERON	3548,0	1611	14	03	RUS	RDL	F1A		RDL 93284 15230 k
VERON	3548,0	1612	14	03	RUS	RDL	F1A		RDL 94837 44186 k
VERON	3548,0	1615	14	03	CIS	UiPTR	F1B		Carrier/Revs/Ptr also at: 23/3 17.35 UTC
VERON	3553,8	1832	09	03	TUR	UiMux	PSK8	2k4	Stanag4285
VERON	3560,0	2244	17	03	E		J3E-u		Spanish speech; prob. fishery; S3
VERON	3608,0	2110	10	03	CIS	UiPTR	F1B		Revs/Ptr also at: 13/3 20.35 UTC
VERON	3689,5	1829	09	03		UiMux	FSK8	1k8	
VERON	3797,0	1927	22	03	RUS	RCV	A1A		RIC87 de RCV QTC 186 Prip Noworossijsk
VERON	5360,0	1843	09	03	E		J3E-u		Long talks Spanish; prob. fishery; S6
VERON	7038,5	1338	09	03			A1A		persistent dashes; S6
VERON	7050,0	1514	22	03	RUS/UKR		J3E-l		2 transmitters; both Russian speech; no calls
VERON	7050,0	1311	25	03	RUS/UKR		J3E-l		2 transmitters; both Russian speech; no calls
VERON	7055,0	vt	vd	03	RUS/UKR		J3E-l		Private war; comments Russian speech.; S6
VERON	7057,0	1511	22	03	CIS	UiMux	PSK	1k3	QSB: S5-S8
VERON	7120,0	1819	09	03	SOM	R.Hargaisa	A3E		E. African speech; S4 with QSB
VERON	7120,0	1851	20	03	SOM	R.Hargaisa	A3E		E. African speech; S8
VERON	7140,0	1818	09	03	ERI	R.Eritrea	A3E		Just carrier S3; very weak signal
VERON	7140,0	1508	22	03	ETH		QRM	10k	White noise jammer
VERON	7140,0	1526	24	03	ETH		QRM	10k	White noise jammer
VERON	7145,8	1503	22	03		UiMux	PSK12	2k4	Pilot carrier 7147,3kHz; S7
VERON	7162,0	1945	17	03	MEA	Illicit	J3E-u		Arabic speech, male voices; fishery?

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SHIFT	DETAILS
VERON	7178,5	2251	17	03	RUS	UiMux	PSK2A	2k6	AT3004D
VERON	7180,0	1516	24	03	ETH		QRM	10k	White noise jammer
VERON	7180,0	1507	25	03	ETH		QRM	10k	White noise jammer
VERON	7181,5	1814	09	03	ERI	R.Eritrea	A3E		E. African speech; S9
VERON	7185,8	1848	20	03		UiMux	PSK12	2k4	Pilot tone 3k3; S5
VERON	7185,8	1456	22	03		UiMux	PSK12	2k4	Pilot tone 3k3; S5
VERON	14006,0	0843	18	03	RUS	UiPtr	F1B		
VERON	14008,0	1205	05	03	RUS	UiCAR	NON		carrier
VERON	14100,0	1120	18	03	ALG	UiMux	FSK8	1k8	ALE; S9+
VERON	14170,0	0947	28	03	RUS		PSK2		AT3004D
VERON	14240,0	1032	12	03		UiPTR	F1B		Ptr
VERON	14253,0	1053	26	03	RUS	UiPtr	F1B		printer
VERON	21438,0	1016	20	03	RUS	RCV	A1A		RIP90 DE RCV QTC 421 48 3 1204 421 BT NAWIP 032 etc

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credits:

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All our friends and contributors worldwide!

Many thanks for your interest!

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