



Monitoring System

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The monthly newsletter for Region 1

May 2017

The 30 members of the IARUMS Region 1 Monitoring Team:



Acknowledgements

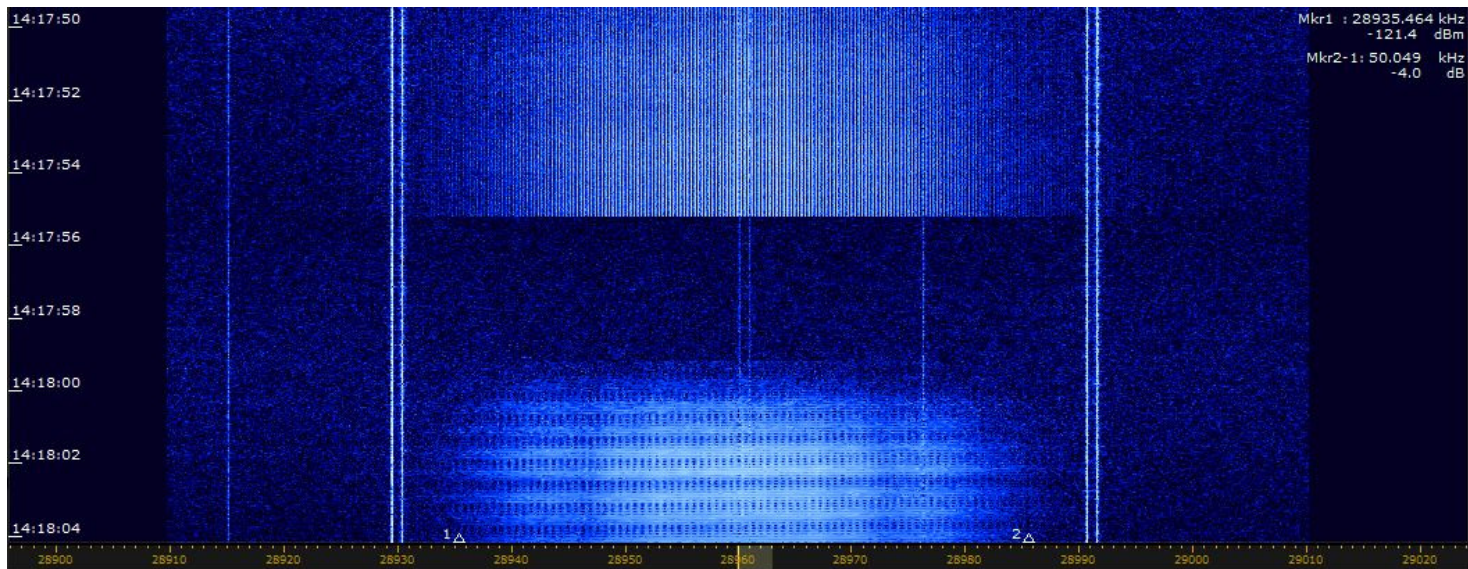
ARAT: 3V8CB – Ahmed ++ ARI: DH7SA – Salvatore ++ ARSK: 5Z4BV - Kamweti ++ DARC: DK2OM – Wolf ++ EARS: A61M – Obaid ++ ERASD: SU1SA – Sayed ++ HRS: 9A5DGZ – Gianluca ++ IARC: 4Z1AB – Amos ++ IRTS: EI3GYB - Michael KARS: 9K2RR – Faisal ++ MARL: 9H1M – Dominic ++ MRASZ: HA7PL - Laci ++ NARS: 5N9AYM – Yusuf ++ NRRL: LA4EU – Hans Arne ++ OEVSV: OE3GSA – Gerd ++ PZK: SP9BRP – Jan ++ RAL: OD5RI – Riri ++ REF: F5MIU – Francis ++ REP: CT4AN – Jose ++ ROARS: A41MA - Younis ++ RSGB: M0VRR - Vaughan ++ SARL: ZS6NS - James ++ SRAL: OH2BLU - Pekka ++ SSA – Ullmar ++ UBA: ON8IM – Ivan +++ URE: EB1TR - Fabian ++ USKA: HB9CET - Peter ++ VERON: PA2GRU - Dick ++ ZRS: S56ZDB – Darko ++ G3VZV – Graham (satellite) ++ TG9ADV – Jorge (Co-ordinator Region 2) ++ YB3PET – Titon (Co-ordinator Region 3) ++ DF8FE – (Webmaster assis.) ++ DL8AAM (ALE) ++ DJ7KG (BUOYS) ++ DF5SX (BC) ++ DARC (server support) ++ OD5TE (Hani) ++ VE6SH – Tim (IARU President) ++ 9K2RR – Faisal (EC-IARU-R1 ++ unofficial members: YO9RIJ – Petrica ++ ASTRA - DL1BDF - Mustapha ++ PTTs: BAKOM (Swiss) ++ OFCOM (UK) ++ Dutch AT

Part 1: News and Infos

1. Radar Iran back on 28960 kHz

Due to Sporadic-E we found the Iranian radar again on 28960 kHz on FMOP with 150 and 313 sweeps/sec and about 50 kHz wide. The German PTT BNetzA in Konstanz was informed.

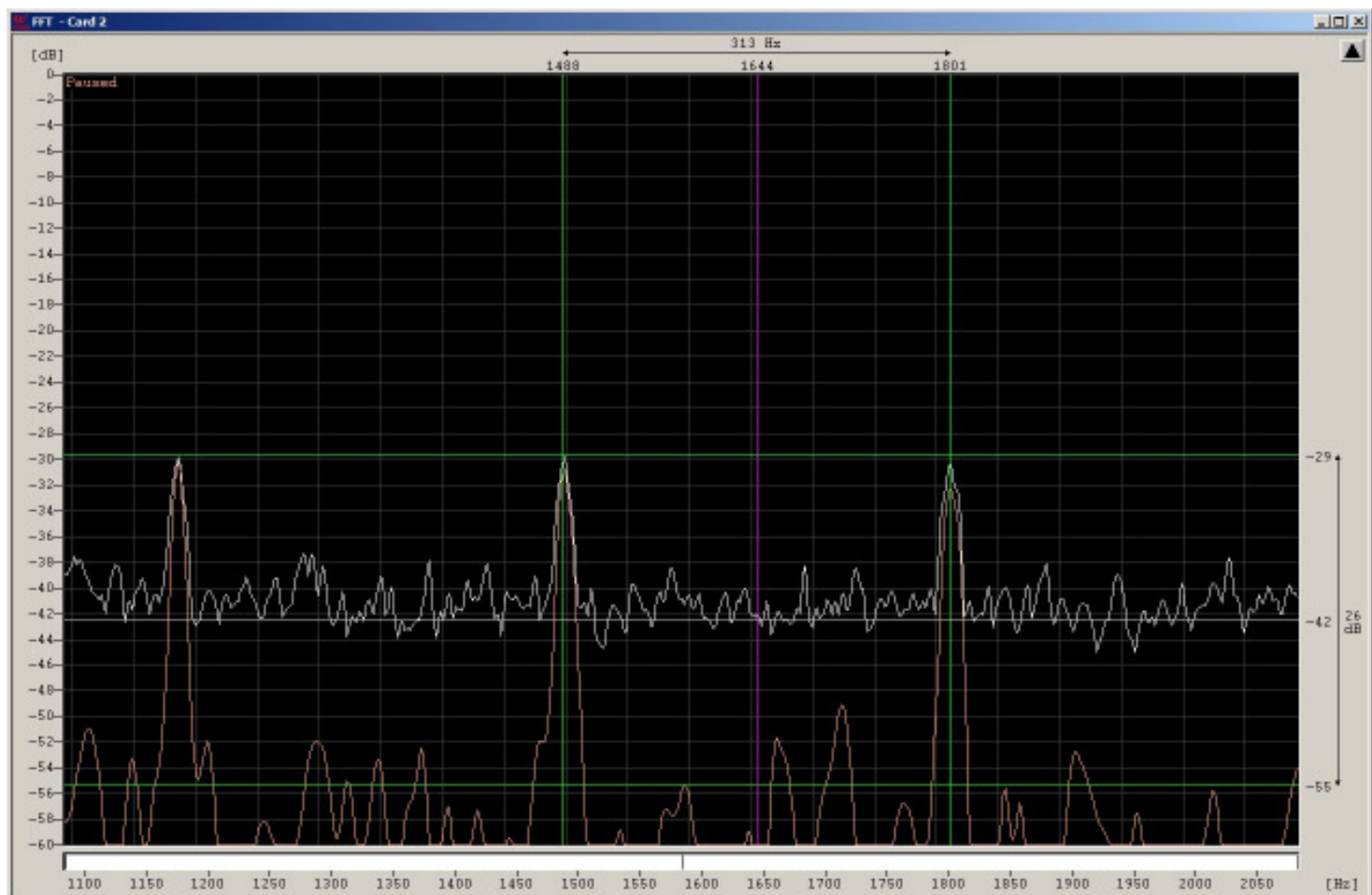
Screenshot: DK2OM on May 30th – You can see the alternating blocks and the gap between the blocks.



28960 kHz

soundfile: <http://www.iarums-r1.org/iarums/sound/28960-irn1.wav>

Measuring the sweeprate by W-Code FFT-display: The difference between the peaks shows the sweeprate. In this case 313 Hz = 313 sweeps/sec - Screenshot: DK2OM on May 30th.



2. 14280 kHz Russian OTH radar Contayner

The Russian OTH radar Contayner appeared on 14280 with 50 sps and 13 kHz wide with S9 + 60 dB on May 12th !

3. 7051 kHz Russian F1B disappeared

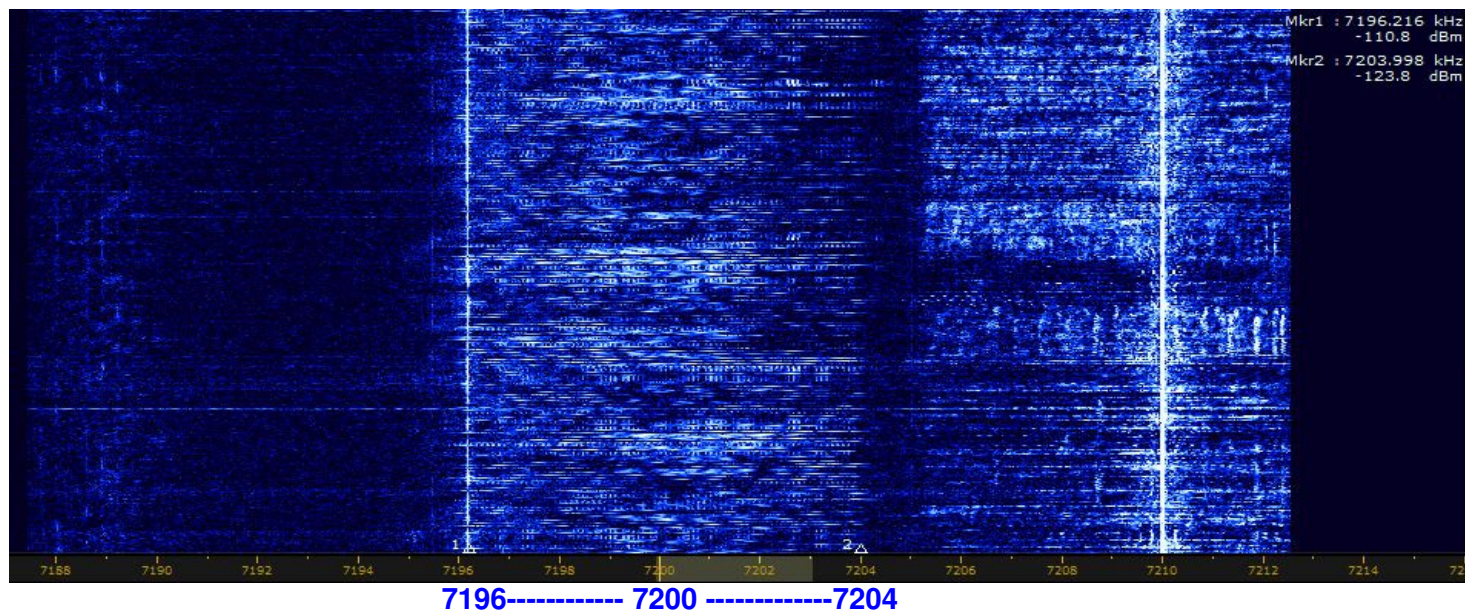
The German PTT Konstanz sent an official complaint. Many thanks for help to the BNetzA Konstanz.

4. Chinese radars again – never ending story

Chinese OTH radars were active daily on 14 and 21 MHz on burst mode and FMOP with 50, 66.66 and 83 sweeps/sec. Please observe ma table.

5. Chinese jammer on 7200

The Chinese BC jammer on 7200 is audible in Europe every evening. Screenshot: DK2OM



6. Situation on 28 MHz

Caused by Sporadic-E we found again many fishery buoys, Russian taxi traffic on F3E (FM), Brazilian pirates on A3E (AM) and CB-like traffic from Spain and Italy on AM. Many thanks to DJ7KG for searching the fishery buoys and creating the monthly tables! <http://www.iarums-r1.org/iarums/buoys.pdf>

7. Mysterious beacon “D” from Far East Russia

The beacon “D” was audible on A1A (CW) in the evening hours on 7039.3 kHz. Spurious transmissions were logged on 7078.6, 7117.9 and 7157.2 kHz and also out of the band.

8. HAMRADIO 2017 – Monitoring Meeting DARC

Invitation to all national coordinators and interested friends of our Monitoring System Region 1 and the DARC Monitoring System: (German version: <http://www.iarums-r1.org/bandwacht/bw-2017.pdf>)

Saturday, July 15th 2017 – Time: 10.00 – 11.30 MESZ - Room Swiss (180) – Hall A2

Programme:

1. Opening by DK2OM and HB9CET

2. Main lecture "Wireless navigation systems on 9 - 30 kHz" Prof.Dr. Wolfgang Skupin

9. Miscellaneous or bad news:

7120.0 kHz – Radio Hargaysa Somalia – as usual
7200.0 kHz – Radio Taiwan and Chinese jammer
14180.0 kHz – Russian Navy Sevastopol on F1B still active
14295.0 kHz - Radio Tajik (harmonic from 4765 kHz)
18080.0 kHz – Sound of Hope - Taiwan
21438.0 kHz – Russian Navy Sevastopol on A1A again as usual

10. Update: Image Gallery

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

11. Homepage IARU Region 1

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

Homepage IARUMS Region 1

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

Homepage IARUMS Region 2

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

Homepage IARUMS Region 3

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

Intruderlogger Region 1

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

ITU-Monitoring Reports

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

Part 2: Detailed reports of the national Co-ordinators

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

ARSK – Kenya – 5Z4BV (Kamweti)

H'd by	kHz	UTC	dd	mm	ITU	Identity	MODE	Details
ARSK	6.999,00	0715	24th	5	E. Africa	?	J3E-u	Swahili message net
ARSK	7.033,00	0710			E. Africa	?	J3E-u	Unidentified vernacular
ARSK	7.055,00	AM/PM	dly		E. Africa	?	F1D?	Possibly HF Datalink, or modem link. Short transmissions.
ARSK	7.066,00	0710	24th	5	E. Africa	?	J3E-l	Unidentified vernacular
ARSK	7.075,00	0600	near dly		E. Africa	?	J3E-l /J3E-u	Unidentified language, possibly Amharic
ARSK	7.075,00	0720	23rd	5	E. Africa	?	J3E-u	Message net; Kiswahili
ARSK	7.080,20	0400-0600; 1300-1500	near dly		Western Indian Ocean / E. Africa	?	J3E-u	Unidentified, ethnic Sino language
ARSK	7.089,00	0740	23rd	5	E. Africa	?	J3E-u	Swahili QSO
ARSK	7.090,00	0505	27th	5	E. Africa	?	J3E-l	Unidentified vernacular
ARSK	7.120,00	vt	dly		Rep.of Somalia	Hargeisha	A3E	Broadcast
ARSK	7.120,00	0742	23rd	5	E. Africa	?	J3E-l	Unidentified vernacular
ARSK	7.155,00	AM/PM	near dly		E. Africa	?	F1D?	Possibly HF Datalink, or modem link. Short transmissions.
ARSK	7.164,00	business hours	dly		E. Africa	?	J3E-U	Information net, Kiswahili/English

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

DG0JBJ (Mario) observed **5** OTH radars on 40 m, **23** OTH radars on 20 m, **25** OTH radars on 17m, **13** OTH radars on 15 m and **5** OTH radars on 10 m in April 2017.

DARC 2 – Germany - DK2OM (Wolf)

FSK transmissions -> center frequency between mark and space

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

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

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

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	3,5 – 30 MHz	1632	03	05	D		QRM			3.5 - 30 MHz disturbed by a neighbouring LED lamp – daily - various times
DK2OM	1812,0	vt	dly	05	RUS		USB LSB			14 tones – hyperbolic radio navigation system – BRAS-3/RS-10 – Kaliningrad – no

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										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
DK2OM	1876,0	vt	dly	05	I	IQN	USB			Lampedusa Radio, weather reports
DK2OM	1888,0	vt	dly	05	I	IPD	USB			Civitavecchia Radio, weather reports
DK2OM	1896,5	ady	dly	05	D		PSK8	2400	2400	Stanag4285 – 600 bps long – German Navy – daily, all day
DK2OM	1925,0	vt	dly	05	I	IPL	USB			Livorno Radio, weather reports
DK2OM	3500,0	1632	03	05	D		QRM			disturbed by a neighbouring LED lamp with S9
DK2OM	3503,5	vt	dly	05	G	no ITU	FSK8	125	1750	ALE – “XSS” “XPU” “XJR” – British MIL Tascomm – vt, daily - legal!
DK2OM	3510,0	2045	25	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	2050	02	05	RUS		F1B	50	200	Severomorsk - daily
DK2OM	3531,0	1953	12	05	RUS	REA4	N0N			unclean carrier - RUS airforce Moscow, ident: 1940 utc - daily
DK2OM	3532,0	---	--	05	F		PSK4	75	5800	LINK11-CLEW on both sidebands (5800 Hz wide) – area of Brest – legal!
DK2OM	3541,8	1955	12	05	ROU		PSK8A	2400	2400	Stanag-4285 – 600 bps - Bucurest
DK2OM	3550,0	0730	dly	05	F		A3E			French amateurs not respecting bandplans - daily
DK2OM	3550,0	vt	vd	05	ALG	no ITU	FSK8	125	1750	ALE, “IU50” “IU52” “FN50”
DK2OM	3550,7	2120	22	05	ISR		PSK4 PSK8	75 2400	2400 2400	hybrid modem – ISR Navy – PSK4 parallel and PSK8 serial - legal operation!
DK2OM	3552,0	2100	03	05	RUS		F1B	50	250	Severomorsk
DK2OM	3553,8	ady	dly	05	TUR		PSK8	2400	2400	Stanag4285 – 600 bps long - TUR MIL - Ankara – daily, all day - legal operation
DK2OM	3560,0	1940	01	05	E		USB			Spanish fishery
DK2OM	3562,0	1941	20	05	RUS		PSK2A	120	2600	AT3004D – area of Vologda
DK2OM	3576,6	ady	dly	05	I	IZ3DVW	A1A			3576.550 - uncoordinated beacon – disturbing JT65
DK2OM	3582,0	1852	24	05	RUS		PSK2A	120	2600	AT3004D - Moscow
DK2OM	3585,0	ady	dly	05	TWN	HLL	FIC		800	WX-fax Taiwan - 120 rpm, IOC 576, - daily, all day - legal!
DK2OM	3586,0	1800	dly	05	G		PSK2A	40	40	encrypted – every evening Great Britain – purpose unknown
DK2OM	3586,0	1901	17	05	RUS		F1B	75	200	Kaliningrad
DK2OM	3587,0	vt	vd	05	E	no ITU	FSK8	125	1750	ALE, “TVV” “TXX” - Spanish Guardia Civil
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	3594,2	---	--	05	RUS	F	A1A			Cluster beacon F - Vladivostok RUS Navy - “RJS”
DK2OM	3595,0	---	--	05	RUS	K	A1A			Cluster beacon - Petropavlovsk Kamchatskiy - RUS Navy - Pacific fleet - “RCC”
DK2OM	3596,0	vt	dly	05	SUI		FSK8	125	1750	ALE, “HB9MHB just for info!

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
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	3640,0	vt	dly	05	G		FSK8	125	1750	ALE, "XSS" - British MIL Tascomm – just for info!
DK2OM	3642,0	ady	dly	05	CHN		A1A			loop – DKG6 de 3A7D Chinese military – daily, all day
DK2OM	3649,0	vt	vd	05	ALG	no ITU	FSK8	125	1750	ALE, "BI20" PA20"
DK2OM	3718,0	vt	vd	05	FEa	7CJK	A1A			loop "7CJK"
DK2OM	3720,0	vt	dly	05	S		FSK8	125	1750	ALE, "YU" "YT" "YV" "DZ" – Swedish MIL
DK2OM	3751,5	vt	dly	05	POL	no ITU	FSK8	125	1750	ALE, "IZ3" "MI3"
DK2OM	3756,0	2000	20	05	RUS		A3E			RUS MIL – channel marker – Tuapse – East Black Sea – night QRG – daily – even audible in Japan
DK2OM	3757,0	ady	dly	05	FEa	RIS9	A1A			"M8JF de RIS9" - loop
DK2OM	3761,5	vt	vd	05	POL	no ITU	FSK8	125	1750	ALE, "NI9" "PL7" "AB2" – Polish MIL
DK2OM	3772,0	ady	dly	05	FEa	A4JC	A1A			"A4JC" - loop
DK2OM	3777,0	vt	dly	05	FEa		A1A			"M8JF de RIS9" – loop – dly
DK2OM	3791,0	vt	vd	05	D	DK0ESD	FSK8	125	1750	ALE, "DK0ESD" – daily - just for info!
DK2OM	3797,0	ady	dly	05	FEa		A1A			"M8JF de RIS9" – loop
DK2OM	5351,5	1832	03	05	D		QRM			disturbed by a neighbouring LED lamp with S9
DK2OM	5351,5	ady	dly	05	FEA		FMOP		58k	Far East OTH radar 5316 – 5374kHz – 43 sps – even audible in Europe (vy strong in Northern Europe) – covering weak CW-signals on 5351.5 – 5366.5 kHz
DK2OM	6998,5	vt	dly	05	POL		FSK8	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 – daily – all day – singing - audible in Europe in the evenings
DK2OM	7000,0	1832	03	05	D		QRM			disturbed by a neighbouring LED lamp – every evening
DK2OM	7001,5	ady	dly	05	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	1830	09	05	INS		USB LSB			Indonesian pirates
DK2OM	7010,0	1830	09	05	INS		USB LSB			Indonesian and Philippine pirates
DK2OM	7010,0	vt	vd	05	ALB	no ITU	FSK8	125	1750	ALE, "RS0" - Tirana
DK2OM	7015,0	1832	09	05	INS		USB 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	7018,0	1730	15	05	FEa		FMOP		32k	Codar like ocean surface radar 2.6 sps – 7018 – 7050 kHz
DK2OM	7020,0	vt	vd	05	ALB		FSK8	125	1750	ALE, "CS004A" "RS004D" "CS004" - daily
DK2OM	7025,0	1833	09	05	INS		USB LSB			Indonesian pirates
DK2OM	7027,5	---	--	05	UKR	„V“	A1A			beacon "V" – Kyiv
DK2OM	7030,0	1834	09	05	INS		LSB USB			Indonesian pirates

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	7036,0	1918	03	05	RUS		F1B	50	500	Moscow
DK2OM	7036,0	1731	06	05	RUS		PSK2A	120	2600	AT3004D - Krasnoyarsk
DK2OM	7039,0	---	--	05	RUS	C	A1A			Cluster beacon C - Moscow RUS Navy - "RIW"
DK2OM	7039,1	---	--	05		A	A1A			beacon "A" - loop
DK2OM	7039,2	1157	01	05	RUS	F	A1A			Cluster beacon F - Vladivostok RUS Navy - "RJS"
DK2OM	7039,3	1157	01	05	RUS	D	A1A			Cluster beacon D Petropavlovsk Kamchatskiy - RUS Navy - Pacific fleet - "RCC" - daily - many spurious emissions
DK2OM	7039,4	ady	dly	05	RUS	M	A1A			Cluster beacon M - Magadan RUS Navy - „RTS“
DK2OM	7040,0	1835	09	05	INS		USB LSB			Indonesian pirates
DK2OM	7040,0	ady	dly	05	I		A1A			IZ3DVW - uncoordinated and unwanted beacon
DK2OM	7040,5	vt	dly	05	HRV		FSK8	125	1750	ALE, "9A5EX" "9A0ALE" - just for info
DK2OM	7041,0	1940	23	05	FEa		FMOP		32k	Codar like ocean surface radar 2.6 sps - 7041 - 7073 kHz
DK2OM	7047,37	vt	vd	05	D		FSK8	125	1750	ALE, "DL0NOT" - just for info!
DK2OM	7049,5	2004	06	05	HRV G F	9A0ALE M1DFO F6BAZ	FSK8	125	1750	Amateur ALE, just for info! daily - various times
DK2OM	7050,0	vt	dly	05	RUS UKR		LSB			music transmissions - private war ?
DK2OM	7050,0	vt	dly	05	KGZ		FSK8	125	1750	ALE, "X" "810" "820615" "810698" - Kyrgyzstan MIL
DK2OM	7051,0	2000	04	05	RUS		F1B	50	200	unclean - Sevastopol - mostly idling - daily
DK2OM	7053,0	1922	18	05	CHN		FMOP		10k	Chinese OTH radar (foghorn) - 66.66 and 50 sps - 10 sec bursts
DK2OM	7055,0	1647	11	05	CHN		FMOP		10k	Chinese OTH radar (foghorn) - 66.66 sps - 3.8 sec bursts
DK2OM	7060,0	1653	16	05	FEa		FMOP		32k	Codar like ocean surface radar 2.6 sps - 7060 - 7092 kHz
DK2OM	7060,0	1652	27	05	FEa		FMOP		32k	Codar like ocean surface radar 2.6 sps - 7060 - 7092 kHz
DK2OM	7065,0	1945	18	05	CHN		FMOP		10k	Chinese OTH radar (foghorn) - 66.66 sps - 3.8 sec bursts
DK2OM	7070,0	vt	vd	05	GEO	no ITU	FSK8	125	1750	ALE, "MV" "244" "686" "334" "204" "571" - daily active
DK2OM	7078,6	1600	14	05	RUS		A1A			spurious from 7039.3
DK2OM	7080,0	1829	03	05	RUS		F1B	50	200	Kaliningrad
DK2OM	7083,0	1926	18	05	CHN		FMOP		10k	Chinese OTH radar (foghorn) - 66.66 and 50 sps - 10 sec bursts
DK2OM	7088,0	1827	22	04	RUS		FMCW		13k	OTH radar Contayner - 50 sps - Gorodezh
DK2OM	7088,8	---	--	05	S	SL0FRO	A1A			7088.830 kHz - cw-trainee, Sweden - SL0FRO - just for info!
DK2OM	7089,8	---	--	05	TUR CYP		PSK8	2400	2400	Link 11 - SLEW - aircraft - west of Cyprus
DK2OM	7091,5	---	--	05	KAZ	„V“	A1A			7091.543 kHz - loop with spurious - ident "V" - Almaty - Kazakhstan
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	1519	17	05	USA		FSK8	120	1750	ALE, "AL7PI" - just fo info!

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	7105,0	2049	25	05	RUS		FMCW		13k	OTH radar Contayner - 50 sps – Gorodezh – even audible in North- and South America
DK2OM	7110,0	vt	dly	05	HRV	9A0ALE	FSK8	125	1750	ALE, “9A0ALE” – just for info
DK2OM	7114,0	1830	03	05	RUS		F1B	50	200	Kaliningrad
DK2OM	7116,0	1009	24	05	RUS		F1B	50	200	Moscow
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	7117,9	1602	14	05	RUS		A1A			spurious from 7039.3
DK2OM	7119,0	1155	05	04	RUS		PSK2A	120	2600	AT3004D – Far East Russia
DK2OM	7120,0	1500	vd	05	SOM		A3E		9k	Radio Hargaysa – Somalia – daily – even audible in Australia and Japan
DK2OM	7137,0	vt	dly	05	TWN		FSK8 LSB	125	1750	ALE, “DEGDG” “DRYHD” “DCOY” “DSQLK” “DEIQW” “DETWY” Taiwanese navy – daily
DK2OM	7144,0	1700	10	05	FEa		FMOP		32k	Codar like ocean surface radar 2.6 sps – 7144 – 7176 kHz
DK2OM	7156,0	1925	04	05	FEa		FMOP		32k	Codar like ocean surface radar 2.6 sps – 7156 – 7188 kHz
DK2OM	7157,2	1604	14	05	RUS		A1A			spurious from 7039.3
DK2OM	7159,0	1625	18	05	CHN		FMOP		10k	Chinese OTH radar (foghorn) – 66.66 sps – 3.8 sec bursts
DK2OM	7172,0	1904	17	05	RUS		PSK2A	120	2600	AT3004D - Penza
DK2OM	7175,0	---	--	05	ERI ETH		A3E		9k	carrier on 7174.989 kHz Radio Eritrea disturbed by Radio Ethiopia with white noise emissions - daily
DK2OM	7179,0	2145	18	05	RUS		PSK2A	120	2600	AT3004D – Russian ship - Cyprus
DK2OM	7183,0	vt	dly	05	SUI		FSK8	125	1750	ALE, “HB9MHB” – just for info!
DK2OM	7185,5	vt	dly	05	D HRV		FSK8	125	1750	ALE, “9A5EX” “DK0ESD” just for info - daily
DK2OM	7186,0	2250	18	05	RUS		PSK2A	120	2600	AT3004D - Severomorsk
DK2OM	7198,5 RF	0748	18	05	RUS		MFSK	1200	800	St. Peterburg
DK2OM	7200,0	vz	dly	05	CHN TWN		A3E/BC		9k	Chinese jammer disturbing Taiwan BC
DK2OM	10100,0	1832	03	05	D		QRM			disturbed by a neighbouring LED lamp with S9
DK2OM	10100,8	ady	dly	05	D		F1B	50	450	Baudot - German Weatherservice – legal!
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	04	05	RUS		F1B	100	1000	CIS14 – Moscow - daily
DK2OM	10115,0	vt	dly	05	MRC	no ITU	FSK8	125	1750	ALE, “100” “114” “203” “XXZ” – Western Sahara
DK2OM	10116,5	---	--	05	AFS		F7D	54.3	2120	MHF50 – 33 tones - South African navy
DK2OM	10120,0	vt	dly	05	ALG	no ITU	FSK8	125	1750	ALE, “CM6” “01012016”
DK2OM	10123,0	vt	dly	05	ALG	no ITU	FSK8	125	1750	ALE, “CM3” “COF” “BSF” ”CM2” “ESA” – Algerian Airforce
DK2OM	10129,0	vt	dly	05	ALG	no ITU	FSK8	125	1750	ALE, “CM1” “CTF” “772”
DK2OM	10133,0	0834	10	05	RUS		PSK2A	120	2600	AT3004D – Moscow
DK2OM	10136,0	vt	dly	05	ALG	no ITU	FSK8	125	1750	ALE, “CM3” “BLD” “CNC” “TF2”
DK2OM	10144,0	ady	dly	05	D	DK0WCY	A1A			10144.000 kHz - DK0WCY – German aurora beacon – just for info!

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	10145,5	vt	dly	05	SUI	HB9MHB	FSK8	125	1750	ALE, "HBMHB" - just for info - daily
DK2OM	10145,5	vt	dly	05	TWN AUS	BV4AS	FSK8	125	1750	ALE, "BV4AS" "VK4SAA" - just for info!
DK2OM	13997,0	1852	31	05	RUS		FMCW		13k	OTH radar Contayner - 50 sps - S9 + 60 dB - producing harmonics on 27994 kHz - 28 MHz CW band is affected, too!
DK2OM	14000,0	1832	03	05	D		QRM			disturbed by a neighbouring LED lamp with S9 - daily various times
DK2OM	14000,0	1850	23	05	TUN		USB			male net - Arabic voice - Tunisia - disturbed by a neighbouring LED lamp
DK2OM	14008,0	1330	02	05	RUS		F1B	50	250	Moscow
DK2OM	14046,0	1047	04	05	RUS		PSK2A	120	2600	AT3004D - submode idle - Kaliningrad
DK2OM	14046,0	1055	24	05	RUS		FMCW		13k	OTH radar Contayner - 50 sps - Gorodezh
DK2OM	14054,0	0933	08	05	RUS		PSK2A	120	2600	AT3004D - area of North Morocco - Russian emba?
DK2OM	14100,0	vt	dly	05	ALG	no ITU	FSK8	125	1750	ALE, "6206" "6204" "6212" "6202" "6203" "6207" "6217" "MTL" "IJ" - Mauritanian border - daily, all day
DK2OM	14100,0	1832	03	05	D		QRM			disturbed by a neighbouring LED lamp with S9 - daily various times
DK2OM	14108,0	---	--	05	RUS		A1A			"BXCS de 9KHQ" - RUS MIL area of Moscow - many spurious emissions
DK2OM	14109,0	vt	vd	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	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	G		FSK8	125	1750	ALE, "M1DFO" - just for info
DK2OM	14131,0	0836	18	05	CHN		FMOP		10k	Chinese OTH radar (foghorn) - 66.66 sps - 3.8 sec bursts
DK2OM	14133,0	2015	23	05	RUS		FMCW		13k	OTH radar Contayner - 50 sps - Gorodezh
DK2OM	14140,0	0652	24	05	RUS		FMCW		13k	OTH radar Contayner - 50 sps - Gorodezh
DK2OM	14150,0	0906	02	05	FEa		FMCW		90k	Far East OTH radar - 25 sps - 14150 - 14240 kHz
DK2OM	14160,0	vt	dly	05	MRC		FSK8	125	1750	ALE, "9204" "9228" "9236"
DK2OM	14162,0	0840	30	05	CHN		FMOP		10k	Chinese OTH radar (foghorn) - 66.66 sps - 3.8 sec bursts
DK2OM	14180,0	0730	01	05	RUS	RDL	F1B	50	250	RUS navy Sevastopol - daily
DK2OM	14187,0	0818	21	05	CHN		FMOP		10k	Chinese OTH radar (foghorn) - 66.66 sps - 3.8 sec bursts
DK2OM	14191,9	0750	20	05	RUS		F1B	50	400	mostly idling - Kaliningrad
DK2OM	14192,0	0752	05	05	RUS		F1B	50 75 50 100 100	500 500 200 500 200	RUS navy Kaliningrad - daily
DK2OM	14199,0	1256	02	05	CHN		OFDM	44.44	2200	OFDM 39 - PSK4B - China
DK2OM	14201,8	0800	dly	05	CHN		PSK2	75	2200	PRC 16 tone modem - RF 14200.0 kHz - China - Shanghai - daily
DK2OM	14212,0	---	--	05	UKR		A3E			female voice with encrypted msgs - figures - "SZRU" = Foreign Intelligence Service of Ukraine in Rivne - heard by

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										M00DV
DK2OM	14218,0	0954	26	05	RUS		PSK2A DSB	120	6600	2 x AT3004D – center 14218 - Novosibirsk
DK2OM	14221,0	---	--	05	KGZ		F1B	50	200	CIS-50-50 - Bishkek – daily
DK2OM	14221,0	0847	11	05	RUS		F1B	75	500	Moscow
DK2OM	14228,0	0828	30	05	CHN		FMOP		10k	Chinese OTH radar (foghorn) – 66.66 sps – 3.8 sec bursts
DK2OM	14255,0	0829	03	05	RUS		PSK2A	120	2600	AT3004D - Samara
DK2OM	14260,0	vt	dly	05	SRB	YU1BI	FSK8	125	1750	ALE, “YU1BI” – just for info!
DK2OM	14260,0	0815	20	05	CHN		FMOP		10k	Chinese OTH radar (foghorn) – 66.66 sps – 3.8 sec bursts
DK2OM	14272,0	---	--	05	RUS	RCV	A1A			RUS Navy Sevastopol
DK2OM	14280,0	0935	12	05	RUS		FMCW		13k	OTH radar Contayner - 50 sps – Gorodezh – S 9 + 40 dB
DK2OM	14290,0	0830	14	05	CHN		FMOP		10k	Chinese OTH radar (foghorn) – 66.66 sps – 3.8 sec bursts
DK2OM	14295,0	vt	dly	05	SRB	YU1BI	FSK8	125	1750	ALE, “YU1BI” – just for info!
DK2OM	14295,0	ady	dly	05	TJK		A3E		9k	3rd from Radio Tajik on 4765 kHz – daily, all day
DK2OM	14297,0	0836	30	05	CHN		FMOP		10k	Chinese OTH radar (foghorn) – 66.66 sps – 3.8 sec bursts
DK2OM	14300,0	0810	14	05	CHN		FMOP		10k	Chinese OTH radar (foghorn) – 66.66 sps – 3.8 sec bursts – also 25.05.2017 at 1036 utc
DK2OM	14316,0	0812	20	05	CHN		FMOP		10k	Chinese OTH radar – 50 sps – 5 sec bursts
DK2OM	14320,0	0844	18	05	CHN		FMOP		10k	Chinese OTH radar (foghorn) – 66.66 sps – 3.8 sec bursts
DK2OM	14323,0	0830	30	05	CHN		FMOP		10k	Chinese OTH radar (foghorn) – 66.66 sps – 3.8 sec bursts
DK2OM	14325,0 RF	0902	29	05	CHN		OFDM	44.44	2200	OFDM 39 – PSK4B – China
DK2OM	14326,0	0744	25	05	CHN		FMOP		10k	Chinese OTH radar (foghorn) – 66.66 sps – 3.8 sec bursts
DK2OM	14327,0	0940	14	05	CHN		FMOP		10k	Chinese OTH radar (foghorn) – 66.66 sps – 3.8 sec bursts
DK2OM	14330,0	vt	dly	05	TWN		FSK8	125	1750	ALE, “BV4”
DK2OM	14334,0	1003	18	05	CHN		FMOP		10k	Chinese OTH radar (foghorn) – 66.66 sps – 3.8 sec bursts – also 19.05. 2017 at 0948 utc
DK2OM	14339,0	1303	25	05	CHN		FMOP		10k	Chinese OTH radar (foghorn) – 66.66 sps – 3.8 sec bursts
DK2OM	14340,0	---	--	05	RUS		PSK2A	120	2600	AT3004D – Vladivostok with spurious emissions +/- 35 kHz and +/- 70 kHz - daily
DK2OM	14346,0	vt	dly	05	POR		FSK8	125	1750	ALE, “CT2IXQ” just for info – various times, daily
DK2OM	14348,0	vt	dly	05	THA	HS0ZEA	A1A			HS0ZEA beacon – 14347.950 kHz - every 5 minutes – daily - just for info!
DK2OM	14351,7	---	--	05	E		OFDM PSK4A	30	2700	OFDM 73 + intro tone – HFD+VL - experimental transmissions – Las Palmas – just for info!
DK2OM	18080,0	0750	05	05	TWN		A3E/BC			Sound of Hope – Taiwan and Chinese BC jammer – daily at 06 utc and later
DK2OM	18100,0	0836	09	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	1437	28	05	TWN		FSK8	125	1750	ALE, “BV4AS” – just for info!
DK2OM	18107,0	vd	vt	05	RUS	RDL	F1B	50	200	CIS-50-200 - Moscow – idle and traffic – daily - Russian

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										navy – shared band!
DK2OM	18113,5	0852	27	05			FSK	600	600	DPRK-FSK 600
DK2OM	18117,5	vt	vd	05	POR	CT2IXQ	FSK8	125	1750	ALE, “CT2IXQ” – just for info
DK2OM	18140,0	vt	dly	05	SRB	YU1BI	FSK8	125	2600	ALE, “YU1BI” – just for info!
DK2OM	18150,0	---	--	05	RUS		F1B	100	1000	harmonic from 9075 (100 Bd, 500 Hz) - Kaliningrad
DK2OM	21000,0	vt	vd	05	B		USB			Brazilian pirates – Rio de Janeiro with North Brazil – very often
DK2OM	21000,0	---	--	05	SDN		USB			MFA Sudan – Khartoum with emba Yemen – voice traffic
DK2OM	21000,0	1832	03	05	D		QRM			disturbed by a neighbouring LED lamp with S9
DK2OM	21002,2	---	--	05	SDN	!0000 !9999 !8888	F1B	100	170	21002.15 kHz - Pactor 1 encrypted – MFA Sudan – Khartoum with emba Yemen
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	1243	02	05	TUR		FMCW		20k	OTH radar Turkey – 50 sps
DK2OM	21214,0	0853	27	05	CHN		FMOP		10k	Chinese OTH radar (foghorn) – 66.66 sps – 3.8 sec bursts
DK2OM	21216,0	0858	27	05	CHN		FMOP		10k	Chinese OTH radar (foghorn) – 66.66 sps – 3.8 sec bursts
DK2OM	21225,0	0856	12	05	CHN		FMOP		10k	OTH radar – 48 sps – 5 sec bursts
DK2OM	21250,0	0835	06	05	TUR		FMCW		20k	OTH radar – 50 sps - Turkey
DK2OM	21262,0	0858	27	05	CHN		FMOP		10k	Chinese OTH radar (foghorn) – 83 sps – 3.0 sec bursts
DK2OM	21287,0	0900	12	05	CHN		FMOP		10k	OTH radar – 66 sps – 3.8 sec bursts - foghorn
DK2OM	21312,0	0858	27	05	CHN		FMOP		10k	Chinese OTH radar (foghorn) – 66.66 sps – 7.5 sec bursts
DK2OM	21328,0	0853	10	05	CHN		FMOP		10k	OTH radar – 42 sps – 6 sec bursts
DK2OM	21334,0	0925	28	05	CHN		FMOP		10k	OTH radar – 50 sps – 5 sec bursts
DK2OM	21336,0	0939	10	05	CHN		FMOP		10k	OTH radar – 83 sps – 6 sec bursts
DK2OM	21353,5	1504	03	05	COD		F1B	600	600	DPRK-FSK 600 – DPRK emba Kinshasa
DK2OM	21360,0	0910	12	05	CHN		FMOP		10k	OTH radar – 66 sps – 3.8 sec bursts - foghorn
DK2OM	21377,0	0840	11	05	CHN		FMOP		10k	OTH radar – 50 sps – 5 sec bursts – jumping 21440
DK2OM	21380,0	0901	12	05	CHN		FMOP		10k	OTH radar – 66 sps – 3.8 sec bursts - foghorn
DK2OM	21396,0	0753	13	05	CHN		FMOP		10k	OTH radar – 50 sps – 5 sec bursts – jumping 21426
DK2OM	21400,0	---	--	05	RUS		F1B	50	2000	harmonic from 5350 kHz – area of Moscow
DK2OM	21426,0	0753	13	05	CHN		FMOP		10k	OTH radar – 50 sps – 5 sec bursts
DK2OM	21438,0	1629	16	05	RUS	RCV	A1A			RIP90, RCV, RGX94 - RUS Navy Sevastopol - daily
DK2OM	21440,0	0842	11	05	CHN		FMOP		10k	OTH radar – 50 sps – 5 sec bursts

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	21446,0	ady	dly	05	THA	HSOZEA	A1A			HSOZEA beacon – every 5 minutes - just for info!
DK2OM	25000,0	ady	dly	05	FIN		A3E			time signal Helsinki – just for info – carrier on 25000 – dots on 25001 and 24999 – daily, all day – just for info!
DK2OM	28000,0	1530	16	05	B		A3E			Brazilian CBers – 28000 – 28325 – daily, all day - no change
DK2OM	28000,0	ady	23	05	CIS		F3E			28000 – 29700 numerous CIS taxi nets – no change
DK2OM	28000,0	1832	03	05	D		QRM			disturbed by a neighbouring LED lamp with S9
DK2OM	28085,1	1623	16	05	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoy
DK2OM	28115,0	0950	31	05	RUS		F3E			RUS taxi
DK2OM	28135,0	1730	30	05	RUS		F3E			RUS taxi
DK2OM	28146,0	vt	vd	05	ARG B		FSK8	125	1750	ALE, “LU8EX” “PY2TI” “DL1” – just for info!
DK2OM	28155,0	0828	23	05	RUS		F3E			RUS taxi - daily
DK2OM	28175,0	0841	23	05	RUS		F3E			RUS taxi
DK2OM	28175,0	1603	23	05	I		F3E			Italian CBers
DK2OM	28195,0	1740	30	05	RUS		F3E			RUS taxi
DK2OM	28215,0	0830	23	05	RUS		F3E			RUS taxi
DK2OM	28215,0	0848	23	05	RUS		F3E			RUS taxi
DK2OM	28275,0	2108	25	05	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoy
DK2OM	28435,0	----	--	05	E		F1B	81.9	140	Datawell-buoy “Waverider” – 28435.040 kHz – Costa del Sol – Malaga
DK2OM	28499,8	---	--	05	MEa		F1B	81.9	140	Datawell-buoy “Waverider” – 28499.875 kHz – Persian Gulf
DK2OM	28960,0	1359	30	05	IRN		FMOP		50k	Iranian OTHR bursts – 150 and 313 sps – long lasting
DK2OM	29114,0	---	--	05	RUS		F1B	100	2000	harmonic from 14557.0 kHz - Moscow
DK2OM	29249,9	1520	31	05	E		F1B	81.9	140	Datawell-buoy “Waverider” – 29249.880 kHz – Spain Fuerteventura - daily, all day
DK2OM	29375,0	---	--	05	I		F1B	81.9	140	Datawell-buoy “Waverider” – 29374.898 kHz – Gallipoli, South Italy - daily, all day
DK2OM	29387,5	---	--	05	IND		F1B	81.9	140	Datawell-buoy “Waverider” – 29387.460 kHz – Indian NW coast, close to Pakistan - daily, all day
DK2OM	29400,0	---	--	05	USA		F1B	81.9	140	Datawell-buoy “Waverider” – 29400.070 kHz - USA north-east coast – NY daily, all day
DK2OM	29450,0	---	--	05	MRC		F1B	81.9	140	Datawell-buoy “Waverider” – 29449.863 kHz - area of El Aaiun – Morocco - daily, all day
DK2OM	29500,0	---	--	05	G		F1B	81.9	140	Datawell-buoy “Waverider” – 29499.974 kHz- area of Gibraltar – daily, all day
DK2OM	29525,0	---	--	05	MRC		F1B	81.9	140	Datawell-buoy “Waverider” – 29524.990 kHz - Agadir - Morocco – daily, all day
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	0952	22	05	I		VFT		2300	Italian MIL - Brescia
DK2OM	29699,5	0952	22	05	I		VFT		1600	Italian MIL - Brescia

DARC 3 – DK7OM (Rudi)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	DETAILS
DK7OM	7050.00	10:50	24	05	UKR		J3E / LSB	gesungenes Lied in russisch oder ukrainisch, S5, vermutlich Ostukraine
DK7OM	7055.00	14:25	24	05	UKR		J3E / LSB	Russisch, Propaganda, mehrere männliche Stimmen durcheinander, kein Amateurfunk, "ukrainiski faschisti", S9, vermutlich Ostukraine
DK7OM	7055.00	15:00	24	05	UKR		J3E / LSB	Russische und englische Lieder, S9, vermutlich Ostukraine
DK7OM	7055.00	09:00	31	05	UKR		J3E / LSB	Russisch, Propaganda, männliche Stimme, kein Amateurfunk, Rundfunkübertragung, Musik, S9, vermutlich Ostukraine, 0900-0930 utc
DK7OM	10140.00	09:30	28	05	CYP		FMCW	vermutlich: OTH Radar Akrotoiri, KM64, "PLUTO II?" RAF 0930-1000 utc, S8 bei DK7OM Ant. Dipole (Strahlrichtung N-S)
DK7OM	14202.00	08:00	13	05	RUS		FMCW	vermutlich: OTH Radar „Kontayner“ aus Gorodez, Russia, LO16RQ, 0800-0830 utc, S9 bei DK7OM Ant. SW, Störung von 14180-14217 kHz, Zentrum: 14202 kHz

IRTS – Ireland – EI3GYB (Michael)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	DETAILS
IRTS	3530	0625	28	05	E or MM		USB	2 male Spanish fishermen. One is called Manuel. Big signals.
IRTS	3535	0555	05	05	UK or MM		USB	2 male Scottish fishermen.
IRTS	3535	0502	11	05	E or MM		USB	2 male Spanish fishermen.
IRTS	3535	1536	11	05	UK		USB	2 male Scottish fishermen. Crystal clear signals with seagulls audible in the background.
IRTS	3545	1701	09	05	HOL or MM		USB	2 male Dutch fishermen.
IRTS	3545	1540	11	05	HOL or MM		USB	2 male Dutch fishermen
IRTS	3550	0556	05	05	F		AM	French Hams still violating band plan. A whole group of them can be heard here very often.
IRTS	3560	0715	12	05	E or MM		USB	2 male Spanish fishermen. Huge signals.
IRTS	3560	0827	16	05	E or MM		USB	2 male Spanish fishermen, very strong signals.
IRTS	3567	1645-1715	17	05	F or MM		USB	2 male French fishermen. Very strong signals. One is called Claude.
IRTS	3590	1345	16	05	POR or MM		USB	2 male Portuguese fishermen. Good audio and huge signals.
IRTS	3635	0816	29	05	HOL or MM		USB	2 male Dutch fishermen
IRTS	3664	1010	02	05	E or MM		USB	2 male Spanish fishermen. Very strong signals. Loud motor noise.
IRTS	3664	1231	03	05	E or MM		USB	2 male Spanish fishermen. Quite weak.
IRTS	5350	0831	16	05	UK or MM		USB	2 male Scottish fishermen. Amazing signals.
IRTS	5353	1830	11	05				Strong Radar from 5353 to 5363 KHz killing most of the new HAM band.
IRTS	5360	0210-	08	05			USB	Arab voices chatting. Weak.

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	DETAILS
		0230						
IRTS	5360	0152	25	05			USB	2 male voices starting to talk in Arabic with a Maghreb accent.
IRTS	5360	1750	27	05	UK		USB	An English station calling several times outside the UK allocation and acts the ignorant when several other stations from Germany tell him he is outside of the UK band. Situations like this a very common on 5 MHz- many Hams do not know their own allocations.
IRTS	5375	0833	16	05	POR or MM		USB	2 male Portuguese fishermen.
IRTS	5400	1332	02	05	E or MM		USB	2 male Spanish fishermen. One is called Jesus. Popular frequency among the fishing community. HAM frequency in many countries.
IRTS	5400	0635	28	05			USB	2 male voices in Arab with Maghreb accent.
IRTS	5398.5	1050	10	05	D		USB	A Swiss HAM on holidays in Germany makes contact with a UK SOTA activation, using a frequency not allocated to D.
IRTS	7050	1555	01	05	UKR /RUS		LSB	Same as above.
IRTS	7051	1528	11	05	RUS		F1B	RUS military
IRTS	7055	1552	01	05	UKR /RUS		LSB	Russian-Ukrainian radio war with agitprop MX and shouting of slogans. Pest. Most days of the month all day.
IRTS	7070	1915	27	05	I		USB	A well-known Italian HAM from Sicily is doing deliberate QRM and attracts all sorts of trolls. The frequency is in chaos for at least 30 minutes.
IRTS	7120	1717	15	05	SOM		AM	Radio Hargeiysa , every day in the early morning, the afternoon and evening.
IRTS	7141	1240- 1300	07	05	RUS		Digital	Huge digital signal, probably RUS military.
IRTS	7150	1004	02	05	RUS		Digital	Strong signal on and off from 7150 to 7155 KHz.
IRTS	7160	1705	22	05	D		LSB	A well- known German Ham doing deliberate QRM towards an Italian special event station and all incoming calls. He keeps talking, insulting everybody involved. He keeps ridiculing everybody for about 15 minutes.
IRTS	7176	1147	21	05	UK or MM		USB	2 male Scottish fishermen.
IRTS	7176	1331 to 1356	23	05	UK or MM		USB	2 male Scottish fishermen. Names: Michael and David.
IRTS	10132	1035	08	05	F		USB	Group of French HAMS using SSB mode in violation to regulations. Just closing down a net. Heard often in the past.
IRTS	14123	1235	03	05				Radar from 14123 to 14151 KHz.
IRTS	14180	0815	13	05				Radar from 14180 to 14217 KHz.
IRTS	14192	0942	08	05	RUS		F1B	RUS navy Kaliningrad
IRTS	14295	1645	09	05	TJK		AM	Radio Tajikistan 3 rd harmonic.
IRTS	14315	1025 - 1040	02	05			Digital	Strong digital signal on and off. QRG unusable.
IRTS	14320	1020 to 1145	02	05			USB	Two tone signal in regular short intervals, like a beacon. Huge signal, non- stop.
IRTS	14325	1251	29	05			RTTY	Strong signal, persistent.
IRTS	14349.5	1310- 1545	07	05				Single tone in rapid on-off sequence. Huge signal, persistent. Runs for nearly 2 hours.
IRTS	18047	0716	12	05				Radar, huge signal from 18047 to 18093 KHz.
IRTS	18080	0720	12	05	Taiw an		AM	Sound of Hope, Taipei.

MRASZ – Hungary - HA7PL (Laci)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	DETAILS
MRASZ	3510,00	1903	19	3			N0N		
MRASZ	3515,00	1850	18	5			USB		ui. man
MRASZ	3536,00	1744	25	5			F1B	250	
MRASZ	3564,00	1841	25	5			F1B	200	
MRASZ	3566,00	1902	19	5			A3E		russian?
MRASZ	3578,00	1858	16	5			F1B	250	
MRASZ	3578,00	1903	18	5			F1B	250	
MRASZ	3578,00	1902	19	5			F1B	250	
MRASZ	3586,00	1859	16	5			F1B	200	
MRASZ	3599,00	1751	25	5			A1A		"...77 K" non HAM
MRASZ	3665,60	1923	1	5			LSB		russian, music
MRASZ	3690,00	1904	19	5			LSB		music
MRASZ	3708,90	1739	9	5			A1A		"ES7E de SYA6" "ES7E de BMRK"
MRASZ	7022,00	1635	10	5			LSB		"I4MEB"
MRASZ	7034,00	1642	10	5			F1B	250	
MRASZ	7048,80	1708	30	5			PSK2		AT3004D
MRASZ	7050,00	1606	9	5			LSB		russian music, chaos
MRASZ	7055,00	1849	1	5			LSB		russian, music; hrd: 9, 18
MRASZ	7110,00	1610	9	5			F1B	200	
MRASZ	7120,00	1934	2	5	SOM		A3E		R. Hargaysa, hrd: 9, 10, 11,18, 19, 25, 28, 30
MRASZ	7137,00	1935	2	5			F1B	200	
MRASZ	7175,00	1636	9	5			A3E		ui. BC
MRASZ	7179,00	1636	9	5			A3E		ui. BC
MRASZ	7179,00	1645	10	5			PSK2		AT3004D
MRASZ	7179,00	1742	25	5			PSK2		AT3004D
MRASZ	7186,00	1937	2	5			PSK2		AT3004D
MRASZ	10102,70	1842	18	5			N0N		
MRASZ	10112,00	1713	30	5			PSK2		AT3004D
MRASZ	10145,00	0639	11	5			PSK2		AT3004D
MRASZ	14000,00	1647	10	5			N0N		very strong
MRASZ	14000,50	1120	13	5			N0N		
MRASZ	14004,50	1847	18	5			USB		ui. man/woman talk
MRASZ	14019,00	1916	19	5			N0N		
MRASZ	14054,00	1609	9	5			PSK2		AT3004D
MRASZ	14054,00	1654	9	5			PSK2		AT3004D
MRASZ	14192,00	0641	12	5			F1B	200	
MRASZ	14192,00	1747	25	5			F1B	250	on the freq also a deliberate disturbance
MRASZ	14195,00	0645	14	5			OTHR		14190-14200 kHz
MRASZ	14295,00	1611	9	5	TJK		A3E		Radio Tajik, 3rd. harm. hrd:10,13,14,16,19,25,30
MRASZ	14315,00	0640	12	5			OTHR		14300-14330 kHz
MRASZ	28049,00	1914	30	5			A1A		fishery buoy "BW"
MRASZ	28060,00	1859	30	5			A1A		fishery buoy "AQ"
MRASZ	28070,00	1918	30	5			A1A		fishery buoy "CY"
MRASZ	28100,00	1935	30	5			A1A		fishery buoy "RF"

OEVSV – Austria – OE3GSA (Gerd)**PZK – Poland – SP9BRP (Jan)****REF – France – F5MIU (Francis) - F5JBR (Andre)**

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REF	7025.0	0825	06	05	RUS	Russian Navy	FSK	50	200	Encrypted messages

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REF	7048.0	0500	04	05	RUS	Russian Military	CW			Responses 4 outstations comms checks NET Station (ETKM) : for information, The Net Stion is on 7591 kHz
REF	7050	1650	17	05		Ukraine ?	LSB		4 kHz	Broadcasting music + Russian?
REF	7169.0	0607	09	05	RUS	6PFO	CW			6PFO Working 4 outstations (QSO and QTCs) in Duplex
REF	7176	0743	25	05			USB			English? fisherman
REF	7177.0	1600	08	05	RUS	Russian Military	CIS-12/AT300 4D/USB	120 per channel	2700	Encrypted messages
REF	14108.0	0611	06	05	RUS	NWZE	CW			NWZE (The NCS use 2 callsigns : probably network for Russian Army an Russian Navy) Wkg 6 outstations (comms checks and QTCs : MMMMM - uses a new set of callsigns sur 1, 11 et 21 of every month) in Duplex – Qsx on 13096 //13868
REF	14108.0	0516	08	05	RUS	NWZE	CW			NWZE working 6 outstations in duplex : Comms checks and QTCs
REF	14115	1509	15	05			fmcw		20 kHz	OTH radar S9+10 pulsed 50Hz Bearing 45°
REF	14317.0	0828	08	05	RUS	Y1YC	CW			Y1YC working 2 outstations (QSO) in duplex

REP – Portugal – CT4AN (Jose Francisco)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REP	3515	06.51	04	05	F		J3E-U			French fishery
REP	3535	21.09	29	05	F		J3E-U			French fishery
REP	3550	06.59	09	05	F		A3E			French amateurs ignoring IARU R1 80m Bandplan
REP	3560	09.24	09	05	POR		J3E-U			Portuguese fishery
REP	3565	07.00	04	05	E		J3E-U			Spanish fishery
REP	3664	09.48	15	05	E		J3E-U			Spanish fishery, unknwn dialect
REP	3777	16.43	17	05			J3E-U			Unid english speaking fishery
REP	7000	20.50	25	05			J3E-U			Unid language, two male ops
REP	7015	16.44	08	05			J3E-L			Intruders
REP	7050	17.20	17	05	RUS		J3E-L			Ukraine-Russia words war, every evening
REP	7077	17.23	25	05	RUS		PSK4	120	3k	AT3004D modem, Russia
REP	7120	17.33	08	05	SOM		8k00 A3EGN			Radio Hargaysa
REP	7186	13.24	03	05	RUS		PSK4	120	3k	AT3004D modem
REP	10115	18.13	16	05	MRC		J3E-U			Fishermen
REP	10121	09.15	15	05	POR		J3E-U			Portuguese fishery
REP	10126	10.38	09	05			J3E-U			North african mil/police w/ data bursts
REP	10135	18.02	06	05			FMCW			OTH radar
REP	10140	10.57	13	05	E		J3E-U			Spanish fishery, Galicia province
REP	14005	10.43	19	05			F1B	300	425	RY, RY, RY ...
REP	14020	08.11	20	05	RUS		PSK2			AT3004D mode
REP	14050	12.51	24	05	RUS		FMCW	50	18k	OTH radar, Russia
REP	14133	19.51	23	05	RUS		FMCW			OTH radar, Russia
REP	14192	10.01	12	05	RUS		F1B	50	200	CIS36 modem, Russia, 24/7
REP	14285	16.19	03	05	RUS		FMCW	50	17k	OTH radar
REP	14288	19.00	06	05			FMCW			OTH radar, burst mode
REP	14305	12.00	10	05	RUS		F1B	75	500	CIS 50 modem
REP	14320	10.59	02	05			N0N			Two alternate tone, unid

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REP	28105	18.01	17	05	RUS		F3E			Taxi YL dispatcher
REP	28283	19.41	24	05			J3E-U			North african fishery, arabic lang.
REP	28960	07.30	31	05	IRN		FMOP	150		Iran radar
REP	29135	11.52	18	05	RUS		F3E			Taxi dispatcher
REP	29185	12.14	06	05	RUS		F3E			Taxi dispatcher
REP	29250	14.20	06	05			F1B	82	120	Datawell buoy

RSGB - Great Britain – M0VRR (Vaughan)

SRAL – Finland – OH2BLU (Pekka)

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	REMARKS
SRAL	7000,0	0830-1900	3. 4. 5.	5		UiCarr	N0N			
SRAL	7000,0	0840	16.	5		UiMUX	PSK2	120	2600	
SRAL	7008,0	0530-1130	13. 15.	5		UiPTR	F1B		250	
SRAL	7010,0	0700-1145	3.	5		UiTone	R3E-u			120 Hz, 3,6 kHz wide
SRAL	7015,0	1020-1415/	14. 15.	5		UiPTR	F1B		200	
SRAL	7018,62	0530-1930	*	5		UiCarr	N0N			F1A 250 Hz, days: 2. 3. 4. 11. 23. 24. 31.
SRAL	7020,0	0530-1130	3. 5. 15.	5		UiPTR	F1B		250	
SRAL	7025,0	0545-0830	6. 8. 31.	5		UiPTR	F1B		200	
SRAL	7051,0	0300-0600	1. 3. 4.	5	RUS	UiPTR	F1B		200	
SRAL	7057,0	0915-1210	27. 28.	5		UiMUX	PSK2	120	2600	
SRAL	7058,0	1830-1850/	15.	5		UiPTR	F1B		200	
SRAL	7060,0	0945-1030/	16.	5		UiMUX	PSK2	120	2600	
SRAL	7076,0	0720-0745	27.	5	RUS	UiMUX	PSK2	120	2600	
SRAL	7104,0	1000-1045	4.	5		UiPTR	F1B		500	
SRAL	7107,0	1330-1430	31.	5		UiMUX	PSK2	120	2600	
SRAL	7111,0	0615-1145	3. 24.	5		UiPTR	F1B		250	
SRAL	7112,0	1240	7. 10.	5		UiMUX	PSK2	120	2600	
SRAL	7116,0	0700-1420	23. – 27.	5		UiPTR	F1B/ A1A		200	A1A vvv: h0 – h10, F1B h10 – h20
SRAL	7116,62	0530-1330	4. 8.	5		UiCarr	N0N			
SRAL	7117,0	1700	5.	5	RUS	RMP	A1A			MR 5F, calls REO
SRAL	7120,0	/0330-0530/	dly	5	SOM	R.Hargeis a	A3E			
SRAL	7120,0	/1500-2000/	dly	5	SOM	R.Hargeis a	A3E			
SRAL	7120,0	/2000-2210/	18.	5	SOM	R.Hargeis a	A3E			
SRAL	7120,0	/2000-2100/	25. – 31.	5	SOM	R.Hargeis a	A3E			
SRAL	7137,0	1700-1845	4. 5.	5		UiPTR	F1B/ N0N			MR 5F
SRAL	7140,0	1030-1300	7.	5		UiMUX	PSK2	120	2600	
SRAL	7151,0	0355	25.	5		UiMUX	PSK2	120	2600	

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	REMARKS
SRAL	7160,0	0830-0900	4.	5		UiMUX	PSK2	120	2600	
SRAL	7160,0	0655-0800	16. 17.	5	RUS	RMW32	A1A			MR 5BL
SRAL	7162,0	0600-1340/	1.	5		UiPTR	F1B		250	
SRAL	7164,0	0650	6.	5		UiMUX	PSK2	120	2600	
SRAL	7167,0	0530	11.	5		UiPTR	F1B		250	
SRAL	7169,0	0700-0715	3.	5		UiCW	A1A			MR 5BL
SRAL	7171,0	0720	25.	5		UiMUX	PSK2	120	2600	
SRAL	7172,0	1420-1835	17.	5		UiMUX	PSK2	120	2600	
SRAL	7172,0	1420	19.	5		UiCW	A1A			MR 5L
SRAL	7176,0	0510-1400	4. 11.	5		UiPTR	F1B		250	
SRAL	7181,62	0500-1930	*	5		UiCarr	N0N/ F1B		250	Days: 2. 3. 11. 12.
SRAL	7186,0	0320-1900	3. 4.	5		UiMUX	PSK2	120	2600	
SRAL	7198,0	0830-1030	4.	5		UiMUX	PSK2	120	2600	
SRAL	7 MHz	2030-0430	25. 26.	5	RUS	29B6	FMCW			50Hz / 15 kHz (WebSDR 2d)
SRAL	7 MHz	0530-1500	*	5	RUS	UiOTHR	FMCW			10Hz / 15 kHz, 30 sec, with 16 min cycle. Days: 3. 19. 20. 27. 30. (WebSDR 9d)
SRAL	10108,0	1130-1320/	22.	5		UiPTR	F1B		250	Maybe legal?
SRAL	10 MHz			5	RUS	29B6	FMCW			50Hz / 15 kHz (WebSDR 11d)
SRAL	14000,0	1705-1430	10. 11.	5		UiCarr	N0N			20 Hz in band
SRAL	14022,0	0545	10.	5		UiMUX	PSK2	120	2600	
SRAL	14108,0	1020-1100	29.	5	RUS	N5I5	A1A			MR 5BL
SRAL	14180,0	0530-1530	1. 2. 5.	5		UiPTR	F1B/A			MR 5BL
SRAL	14192,0	0530-1900	*	5	RUS	UiPTR	F1B		200	Days: 10. 12. 13. 20. 22. – 25.
SRAL	14211,0	0820	20.	5		UiPTR	F1B			
SRAL	14221,0	0300-0600/	dly	5	KGZ	UiPTR	F1B		200	
SRAL	14295,0	0200-1930	dly	5	TJK	R Tojikiston	A3E			3f 4765,00 kHz, Yangiyul TX, on day 29. + 150 Hz chirpy.
SRAL	14 MHz	0630-1530	*	5	RUS	29B6	FMCW			50Hz / 15 kHz, (WebSDR 12d) Days: 3. 9. 10. 12. 13. 15. 19. 23. 23.
SRAL	14 MHz	0530-1530	dly	5	RUS	UiOTHR	FMCW			10Hz / 15 kHz, 30 sec, with 16 min cycle.
SRAL	18 MHz	0530-1838/	*	5	CYP / TUR	UiOTHR	FMCW			25/50Hz / 20 kHz, (WebSDR 10d) Days: 13. 21. 31.
SRAL	21 MHz	0930-1015	13.	5	CYP / TUR	UiOTHR	FMCW			25/50Hz / 20 kHz, (WebSDR 10d)
SRAL	21438,0			5	RUS	RCV	A1A			
SRAL	24 MHz			5		UiOTHR	FMCW			(WebSDR 0d)
SRAL	28960,0	1000-1800	*	5	IRN	UiOTHR	FMCW			150 & 313 Hz / 60 kHz , days 21. 23. 26.
SRAL	28 MHz			5		UiOTHR	FMCW			25/50Hz / 20 kHz (WebSDR 0d)
SRAL	28 MHz	0500-1900	*	5	RUS	Taxi disp.	F3E			47 reports , days: 10. 14. 15. 19. 22. 24. 30.

USKA – Switzerland – HB9CET (Peter)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	3525.0 (Center)	2225	30	05			DQPSK	14x75	5k9	LINK 11 CLEW; almost daily (Stanag5511): ISP or DSP Mode
USKA	3527.0	2219	18	05			F1B	50	200	often
USKA	3578.0	2223	18	05			F1B	75	250	
USKA	3578.912	1601	04	05	D	MO	A1A			Bake North of Frankfurt/M
USKA	3616.5	2221	30	05			J7D	12x120	2k7	QPSK; CIS12 (AT3104D)
USKA	7008.0	0809	15	05			F1B	75	250	often
USKA	7120.0	1929	16	05			A3E		~10k	BC; Radio Hargaysa, almost daily
USKA	7177.0 VFO USB	1638	04	05			J7D	12x120	2k7	BPSK CIS12
USKA	7179.0	0908	02	05			J7D	12x120	2k7	BPSK; CIS12 often
USKA	7184.0 VFO USB	1642	04	05			J7D	12x120	2k7	BPSK CIS12
USKA	7197.0	1921	16	05		355013	MFSK8	125	1750	MIL 188-141A
USKA	7197.0	1923	16	05		380013	MFSK8	125	1750	MIL 188-141A
USKA	7197.0	1925	16	05		324013	MFSK8	125	1750	MIL 188-141A
USKA	14000.020	0657	11	05			NON			long lasting carrier
USKA	14003.59	0708	11	05			PSK-2	1200	1200	ARQ system
USKA	14054.0	0718	08	05			J7D	12x120	2k7	BPSK; CIS12 system
USKA	14115.0	0835	26	05			FMCW	50 sps	~13k	OTHR (occupied BW ≥ 30k) Contayner 29B6 system
USKA	14160.0	0701	11	05			F1B	75	250	
USKA	14180.0	1243	05	05		RDL	F1B	36+50	250	CIS 36-50 almost daily
USKA	14192.0	0905	02	05			F1B	50	200	almost daily
USKA	14201.0	0824	13	05			FMCW	50 sps	~13k	OTHR (occupied BW ≥ 30k) Contayner 29B6 system
USKA	14202.0 VFO USB	0812	15	05			OFDM60	29.63	~2k7	PSK-4 modulated, tone spacing 44.44Hz; pilottone at 3k3
USKA	14221.0	2230	30	05			F1B	50	200	often
USKA	14240.0	0706	11	05			F1B	75	250	also short F1A
USKA	14279.0	1005	12	05			FMCW	50 sps	~13k	OTHR (occupied BW ≥ 30k) Contayner 29B6 system
USKA	14319.8	0820	15	05			NON			long lasting carrier
USKA	14325.0 VFO USB	0911	29	05			?		~2k4	Burst system, preamble, pilottone
USKA	18150.0	0754	29	05			F1B	100	1k	Harmonic of 9075kHz often
USKA	28960.0	0856	31	05			FMOP	150+313 sps	50k	OTHR

Veron – Netherlands – PA2GRU (Dick)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SHIFT	DETAILS
VERON	3578,0	19.19	19	5		UiPTR	F1B		Ptr
VERON	3642,0	19.20	19	5	CIS	UiPTR	F1B		Revs/Ptr
VERON	3688,0	19.52	25	5		V	A1A		V-beacon
VERON	3692,5	18.43	23	5	CIS	2LUS	A1A		PATA de 2LUS 5BL
VERON	3741,5	19.28	15	5		UiPTR	F1B		Revs/Ptr
VERON	7008,0	13.00	10	5		UiPTR	F1B		Ptr
VERON	7018,0	18.47	2	5	RUS	REA	NON		carrier Russian Airforce
VERON	7058,0	19.31	15	5		UiPTR	F1B		Ptr
VERON	7071,0	10.59	20	5	UK	UiILL	J3e-U		male voices, fishery
VERON	7088,7	19.15	19	5		UiCW	A1A		CT Lektion nr 2 text GKT 334
VERON	7176,0	vt	dly	5	UK	UiILL	J3e-U		male, fishery, foul language
VERON	10108,0	06.57	31	5		UiPtr	F1B	200	Ptr
VERON	10118,0	13.00	10	5		UiPTR	F1B		Ptr
VERON	14008,0	11.33	8	5	CIS	UiPTR	F1B		Carrier/Revs/Ptr (also 22/5 10.17 UTC)
VERON	14046,0	13.28	24	5		OTHR	FMCW		radar
VERON	14108,0	14.01	8	5	CIS	NWZE	A1A		DQ1D de NWZE QTC ZWU k
VERON	14108,0	14.02	8	5	CIS	NWZE	A1A		NWZE 097 38 8 1448 097 MMMMM 5BL
VERON	14108,0	14.14	8	5	CIS	NWZE	A1A		Y1CQ QTC ZHH ar
VERON	14108,0	14.15	8	5	CIS	NWZE	A1A		NWZE 093 42 8 1504 093

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SHIFT	DETAILS
									MMMMM 5BL
VERON	14108,0	09.26	11	5	CIS	WEGI	A1A		XXX WEGI 70518 TuBETEWYJ 7895 8935
VERON	14108,0	11.31	11	5	CIS	HVQN	A1A		Calls to: NHJ2 WRAO L35H 5F6D SZH7
VERON	14108,0	09.28	12	5	CIS	HVQN	A1A		SZH7 de HVQN QBE QRR3 k
VERON	14108,0	12.10	22	5	CIS	WEGI	A1A		XXX WEGI 93992 IPSILON 1723 5252
VERON	14108,0	12.20	22	5	CIS	WEGI	A1A		XXX WEGI 88118 TASSOWEND 2889
VERON	14108,0	10.09	23	5	CIS	N5I5	A1A		ASNU de N5I5 QTC k
VERON	14108,0	10.11	23	5	CIS	WRF8	A1A		ASNU de WRF8 QTC k
VERON	14108,0	10.12	23	5	CIS	WRF8	A1A		WRF8 249 36 23 1304 249 MMMMM 5BL
VERON	14108,0	10.01	29	5	CIS	WEGI	A1A		XXX WEGI 29265 UGADNoIK 6103 1569
VERON	14108,0	10.17	29	5	CIS	AFBE	A1A		AFCB de AFBE QBE QYT6 QYT9 k
VERON	14108,0	10.19	29	5	CIS	N5I5	A1A		ASNU de N5I5 299 47 29 MMMMM 5BL
VERON	14108,0	12.07	29	5	CIS	N5I5	A1A		AXIG de N5I5 k rk
VERON	14108,0	12.18	29	5	CIS	AFBE	A1A		AFCB de AFBE QBE QYT9 k
VERON	14108,0	06.06	9	5	RUS	Y1CQ	A1A		Y1CQ QRC ZWX AR
VERON	14108,0	06.12	9	5	RUS	NWZE	A1A		NWZE 843 39 9 0848 843 BT ZWX 320 BT
VERON	14108,0	06.12	9	5	RUS	NWZE	A1A		VFHRK (etc 5BL) Ends: 981 K
VERON	14108,0	06.22	9	5	RUS	NWZE	A1A		To: QOK6, FBTL, CB2D, CB2D, FYFF,
VERON	14108,0	06.22	9	5	RUS	NWZE	A1A		TFPC, DQ1D: DE NWZE R 843 ? K
VERON	14108,0	06.30	9	5	RUS	NWZE	A1A		X5KH DE NWZE QTC 477 49 9 0840 477
VERON	14108,0	06.30	9	5	RUS	NWZE	A1A		BT 386 BT 5BL
VERON	14108,0	07.56	12	5	RUS	HVQN	A1A		SZH7 DE HVQN ZRB ZKW ZRO QRR3 K
VERON	14108,0	08.23	12	5	RUS	Y1CQ	A1A		Y1CQ QTC ZFF AR
VERON	14108,00	06.44	25	5	RUS	N5I5	A1A		AXIG, 3LV9, W2O2, AFCB, L3GM, ASNU
VERON	14108,00	06.44	25	5	RUS	N5I5	A1A		DE N5I5: proc
VERON	14116,0	09.57	29	5		UiPTR	F1B		Ptr
VERON	14141,0	09.26	16	5		UiPTR	F1B		Ptr
VERON	14192,0	vt	vd	5	CIS	UiPTR	F1B		Revs/Ptr (often heard)
VERON	21438,0	15.04	18	5	RUS	RCV	A1A		RCV proc

The monitoring team of IARU Region 1

credits:

Wavecom Elektronik – Buelach – Switzerland

All HAMS, friends and contributors worldwide!

Many thanks for your interest!

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