



Monitoring System

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Vice Co-ordinator of IARUMS Region 1

The monthly newsletter for Region 1

September 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 ++ OEVS: 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: 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 ++ Austrian PTT

Part 1: News and Infos

1. Wolf Hadel, DK2OM and Peter Jost, HB9CET reappointed in Landshut

(Recommendation LA17_C3_Rec_01)

The 24th General Conference of IARU Region 1 was held from 16 to 23 September 2017 at the Sparkassenakademie Bayern in Landshut in Germany.

The Conference unanimously reappointed Wolf Hadel, DK2OM, as Coordinator and Peter Jost, HB9CET, as Vice-Coordinator of IARUMS (R1) for the next three years.

(Proposed by: DARC. Seconded: PZK. In favour: 53 Against: 0 Abstain: 0)

IARUMS working group meeting in Landshut

(LA17_C3_IARUMS)

On Sunday 17th the IARUMS working group, conducted by Peter, HB9CET, had a meeting with 21 participants. Main theme was a modernization of our communication tools, which was approved unanimously by all participants. So a sub-working group has been established. The minutes of the meeting is added.

Peter, HB9CET - 29.9.2017 – read more: <http://www.iarums-r1.org/iarums/iarumsla2017.pdf>

Many thanks dear Peter for the excellent preparation and presentation!

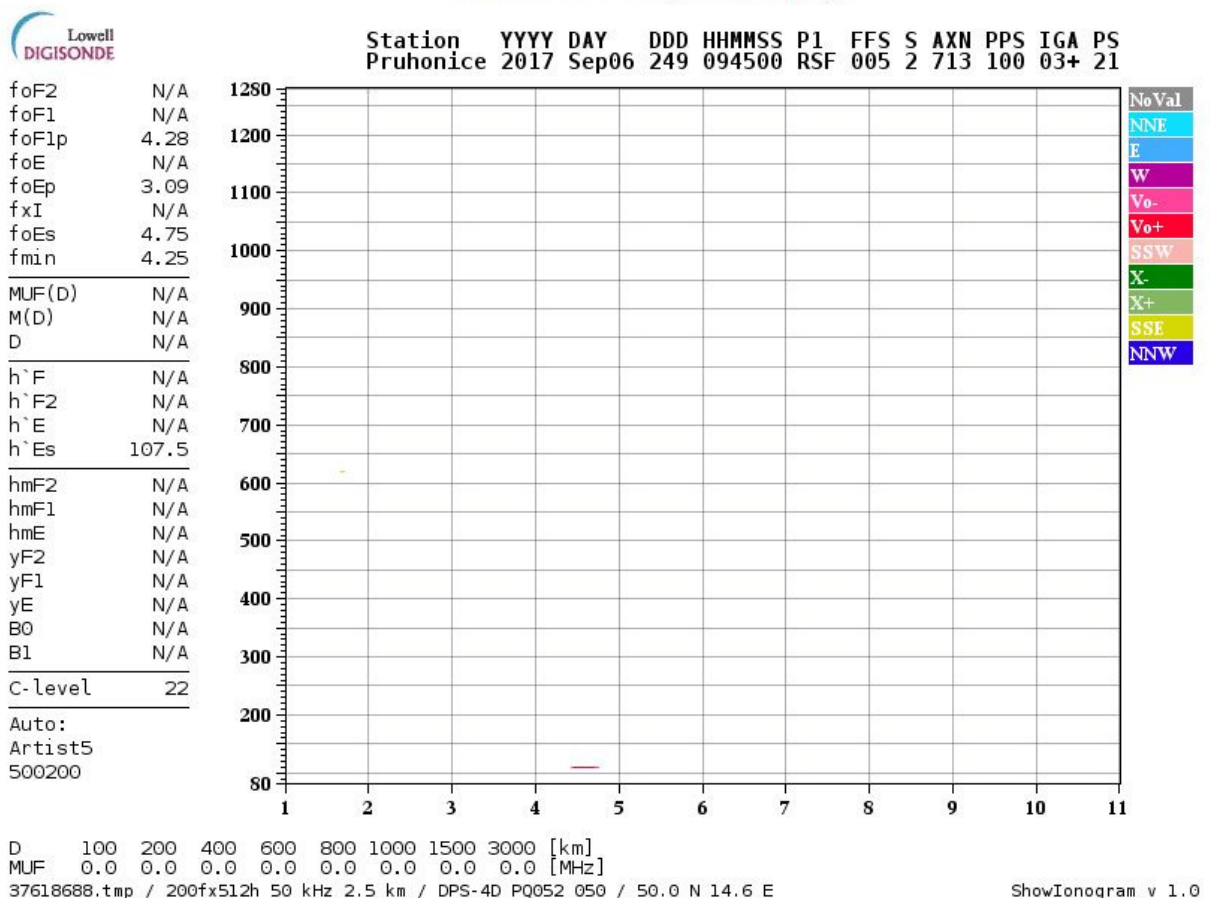
2. Moegel-Dellinger phenomenon on Sept. 6th

A very strong Moegel-Dellinger phenomenon did not allow any monitoring on Sept. 6th.

Source of the ionogram below: Ionosonde Pruhonice <http://147.231.47.3/latestFrames.htm>

You can see the complete shortwave fade-out on Sept. 6th.

[Back to statistics for 2017.09.06 \(249\)](#)



3. Stanag-4285 from Turkey on 7 MHz

A Stanag-4285 appeared on 7001.8 kHz (center QRG) for several days. Location: Istanbul, Turkey

4. Stanag-4285 from Denmark on 5 MHz – primary user!

The Stanag-4285 from Aarhus (Danish Navy) was again active on 5361.8 kHz RF. This frequency belongs to the Danish Navy since several years. Ident: OUA15

5. Spanish fishermen - illegal users of our 5 MHz-band

Spanish fishermen were abusing 5356.0 kHz on USB with the voice scrambler CRY 2001 on Sept. 19th. They seemed to have some problems there.

6. Spanish fishermen on 3550.0 kHz every evening

Spanish fishermen were chatting on 3550.0 kHz USB every evening at 2000 utc or earlier.

The traffic started as follows: A male voice talked "soy por aqui" = "I am here". No idents, only names as usual.

7. Freedom for Catalonia

14001.0 on CW – someone transmitted a loop "freedom for Catalonia" on September 26th at 1710 utc.

8. Brazilian pirates on 21000.0 KHz

Brazilian pirates (fishermen?) were often transmitting on 21000.0 kHz on USB in the evenings.

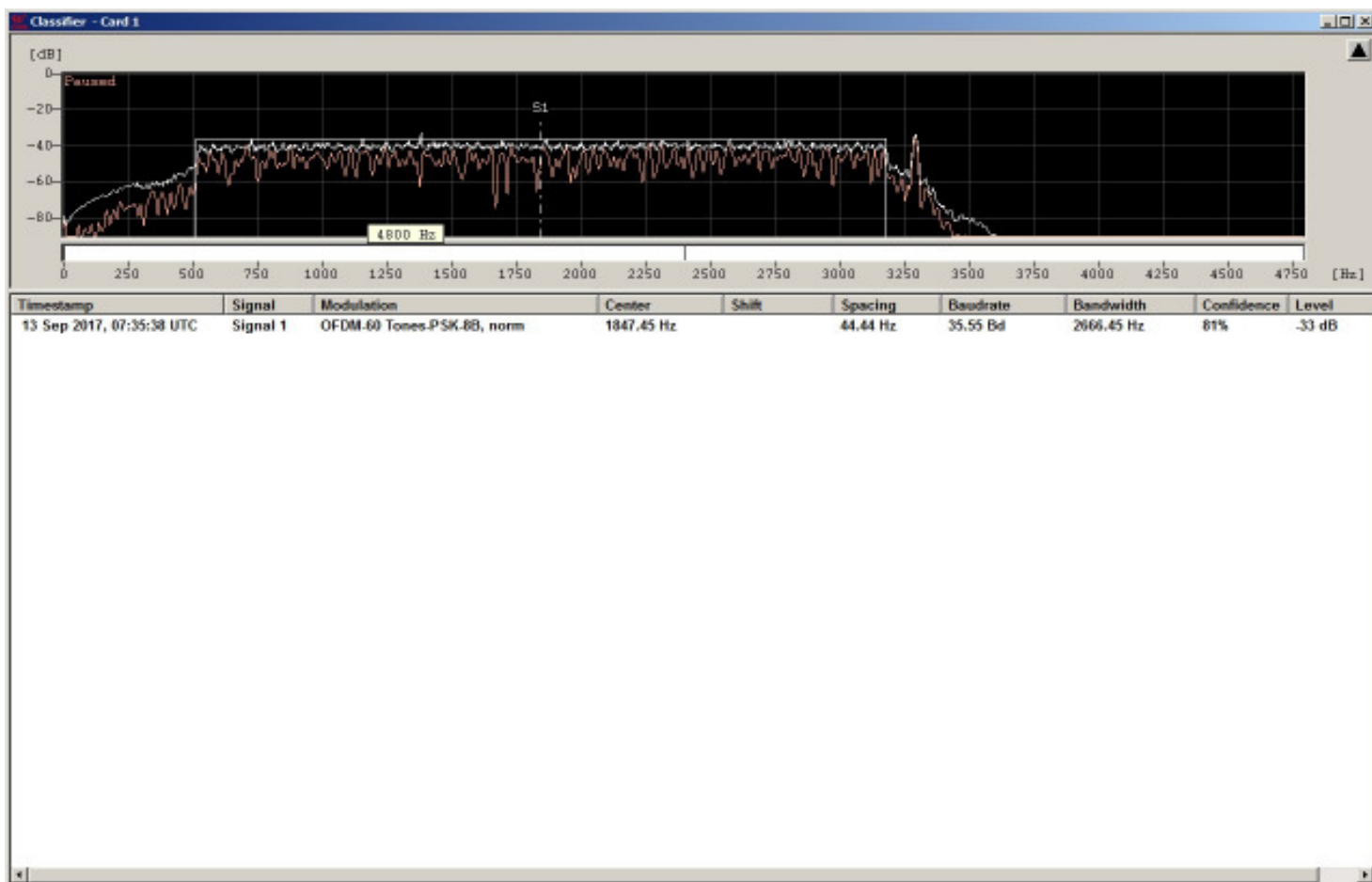
Locations: Rio and Northern Brazil.

9. Russian OFDM-60 on 14 MHz

We found a Russian MIL OFDM-60 on 14260.9 kHz (center QRG). Location: Moscow

Parameters: OFDM 60, PSK 8 B, 35.55 Bd, spacing 44.44 Hz, pilottone

Screenshot with Wavcom W-Code Classifier analysing the OFDM-signal. (DK2OM)



10. Miscellaneous or bad news:

3550.0 kHz – USB – Spanish fishermen daily at 2000 utc

7120.0 kHz – Radio Hargaysa 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

18080.0 kHz – Sound of Hope – Taiwan – no change

21438.0 kHz – Russian Navy Sevastopol on A1A - as usual

28960.0 kHz – Radar Iran on burst mode - daily

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 = 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

ARSK – Kenya – 5Z4BV (Kamweti)

H'd by	kHz	UTC	dd	mm	Adm	Identity	MODE	Details
ARSK	7.000,00	vt	nearly dly	9	Kenya	?	J3E-I	Swahili message net
ARSK	7.120,00	vt	dly	9	Rep.of Somalia	Hargeisha	A3E	Broadcast
ARSK	7.140,00	p.m.	near dly	9	Radio Eritrea	?	A3E	Broadcast
ARSK	7.140,00	p.m.	near dly	9	Ethiopia?	?	A3E	Jammer
ARSK	7.157,00	vt	near dly	9	eastern Africa	?	"unknown"	encrypted digital voice/phone; or possibly PSK
ARSK	7.180,00	vt	near dly	9	Radio Eritrea	?	A3E	Broadcast
ARSK	7.180,00	p.m.	near dly	9	Ethiopia?	?	A3E	Jammer

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

DG0JBJ (Mario) observed **2** OTH radars on 40 m, **0** OTH radars on 20 m, **24** OTH radars on 17m, **12** OTH radars on 15 m and **5** OTH radars on 10 m in September 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 – 50 MHz	1709	01	09	D		QRM			3.5 - 50 MHz intentionally disturbed by a neighbouring LED lamp – daily - various times
DK2OM	1812,0	ady	dly	09	RUS		USB LSB			14 tones – hyperbolic radio navigation system – BRAS3-/RS-10 – Kaliningrad – no carrier - daily, all day
DK2OM	1852,0	vt	dly	09	I	IPP	USB			Palermo Radio, weather reports
DK2OM	1855,0	vt	dly	09	I	IQP	USB			San Benedetto Radio, weather reports - daily
DK2OM	1876,0	vt	dly	09	I	IQN	USB			Lampedusa Radio, weather reports - daily
DK2OM	1888,0	vt	dly	09	I	IPD	USB			Civitavecchia Radio, weather reports - daily
DK2OM	1896,5	ady	dly	09	D		PSK8	2400	2400	Stanag4285 – 600 bps long – German Navy – daily, all day
DK2OM	1925,0	vt	dly	09	I	IPL	USB			Livorno Radio, weather reports - daily
DK2OM	3500,0	1709	01	09	D		QRM			intentionally disturbed by a neighbouring LED lamp with

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										S9
DK2OM	3500,0	1900	03	09	E		USB			Spanish fishery – engine noise in the background
DK2OM	3503,5	vt	dly	09	G	no ITU	FSK8	125	1750	ALE – “XSS” “XPU” “XJR” – British MIL Tascomm – vt, daily - legal!
DK2OM	3525,0	---	--	09	F		PSK4	75	5800	LINK11-CLEW on both sidebands (5800 Hz wide) – area of Marseille – legal!
DK2OM	3527,0	2015	03	09	RUS		F1B	50	200	Severomorsk - daily
DK2OM	3531,0	---	--	09	RUS	REA4	N0N			unclean carrier - RUS airforce Moscow, ident: 1940 utc - daily
DK2OM	3532,0	1710	20	09	F		PSK4	75	5800	LINK11-CLEW on both sidebands (5800 Hz wide) – area of Brest – legal!
DK2OM	3535,0	2043	01	09	E		USB			Spanish fishery
DK2OM	3550,0	0730	dly	09	F		A3E			French amateurs not respecting bandplans - daily
DK2OM	3550,0	vt	vd	09	ALG	no ITU	FSK8	125	1750	ALE, “TU50” “TU52” “FN50”
DK2OM	3550,0	2000	13	09	E		USB			Spanish fishery
DK2OM	3550,7	2025	26	09	ISR		PSK4 PSK8	75 2400	2400 2400	hybrid modem – ISR Navy – PSK4 parallel and PSK8 serial - legal operation! – disturbed by Spanish fishery on 3550.0 USB
DK2OM	3552,0	1734	25	09	RUS		F1B	50	250	Kaliningrad
DK2OM	3553,8	1917	23	09	TUR		PSK8	2400	2400	Stanag4285 – 600 bps long -TUR MIL - Ankara – daily, all day - legal operation
DK2OM	3560,0	1940	13	09	E		USB			Spanish fishery – also 22.09.2017 at 1850 utc
DK2OM	3570,0	1945	10	09			PSK2A	120	2600	AT3004D -
DK2OM	3576,6	ady	dly	09	I	IZ3DVW	A1A			3576.550 - uncoordinated beacon – disturbing JT65
DK2OM	3582,0	1738	25	09	RUS		PSK2A	120	2600	AT3004D - Kaliningrad
DK2OM	3585,0	ady	dly	09	TWN	HLL	FIC		800	WX-fax Taiwan - 120 rpm, IOC 576, - daily, all day - legal!
DK2OM	3587,0	vt	vd	09	E	no ITU	FSK8	125	1750	ALE, “TVV” “TXX” - Spanish Guardia Civil
DK2OM	3593,7	---	--	09	RUS	D	A1A			Cluster beacon – Sevastopol RUS Navy – “RCV”
DK2OM	3593,8	---	--	09	RUS	P	A1A			Cluster beacon – Kaliningrad RUS Navy – “RMP”
DK2OM	3593,9	---	--	09	RUS	S	A1A			Cluster beacon – Severomorsk RUS Navy – „RIT“
DK2OM	3594,0	---	--	09	RUS	C	A1A			Cluster beacon C - Moscow RUS Navy - “RIW”
DK2OM	3594,2	---	--	09	RUS	F	A1A			Cluster beacon F - Vladivostok RUS Navy - “RJS”
DK2OM	3595,0	---	--	09	RUS	K	A1A			Cluster beacon - Petropavlovsk Kamchatskiy - RUS Navy - Pacific fleet - “RCC”
DK2OM	3596,0	vt	dly	09	J		FSK8	125	1750	ALE, “JH1ESB” – just for info!
DK2OM	3617,0	vt	dly	09	HRV	9A5EX	FSK8	125	1750	ALE, “9A5EX” – HAM-ALE - just for info
DK2OM	3622,5	ady	dly	09	J	JMH	FIC		800	Tokyo Meteo – 120 rpm – IOC 576 – daily, all day - legal!!!
DK2OM	3642,0	ady	dly	09	CHN		A1A			loop – DKG6 de 3A7D Chinese military – daily, all day
DK2OM	3649,0	vt	vd	09	ALG	no ITU	FSK8	125	1750	ALE, “BI20” PA20”
DK2OM	3718,0	vt	vd	09	FEa	7CJK	A1A			loop “7CJK”
DK2OM	3720,0	vt	dly	09	S		FSK8	125	1750	ALE, “YU” “YT” “YV” “DZ” – Swedish MIL
DK2OM	3756,0	2000	dly	09	RUS		A3E			RUS MIL – channel marker – Tuapse – East Black Sea – night QRG – daily – even audible in Japan
DK2OM	3757,0	ady	dly	09	FEa	RIS9	A1A			“M8JF de RIS9” - loop

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	3772,0	ady	dly	09	FEa	A4JC	A1A			“A4JC” - loop
DK2OM	3777,0	vt	dly	09	FEa		A1A			“M8JF de RIS9” – loop – dly
DK2OM	3791,0	vt	vd	09	D	DK0ESD	FSK8	125	1750	ALE, “DK0ESD” – daily - just for info!
DK2OM	3797,0	ady	dly	09	FEa		A1A			“M8JF de RIS9” – loop
DK2OM	5336,0	1744	08	09	CHN		FMOP		39k	Chinese OTH radar “Sunflower” – 43 sps – 5336 – 5395 kHz
DK2OM	5350,0	1930	07	09	E		USB			Spanish fishery – splattering up - just for info – daily at 2100 utc or earlier
DK2OM	5351,0	1940	26	09	E		USB			Spanish fishery
DK2OM	5351,5	1909	01	09	D		QRM			intentionally disturbed by a neighbouring LED lamp with S9
DK2OM	5353,0	2010	10	09	E		USB			Spanish fishery
DK2OM	5355,0	2053	04	09	CHN		FMOP		48k	Chinese OTH radar “Sunflower” – 43 sps – 5314 – 5362 kHz
DK2OM	5355,0	2100	19	09	E		USB			Spanish fishery
DK2OM	5355,0	1730	20	09	RUS		PSK2A	120	2600	AT3004D - Caucasus
DK2OM	5356,0	2020	19	09	E		USB			Spanish fishery with voice scrambler CRY 2001
DK2OM	5358,0	1928	21	09	RUS		PSK2A	120	2600	AT3004D – submode idle - Moscow
DK2OM	5361,8 RF	1520	11	09	DNK	OUA15	PSK8A	2400	2400	Stanag-4285 – 600 bps long – assigned to Danish Navy Aarhus - legal – primary user ! – also 22.09.2017 at 1720 utc
DK2OM	5362,0	1829	03	09	UKR		PSK2A	120	2600	AT3004D
DK2OM	5363,0	0859	09	09	AUS		FMOP		10k	Australian OTH radar JORN – 17 sps – 6.9 sec bursts – introtone – long-range mode
DK2OM	6998,5	--	--	09	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	1709	01	09	D		QRM			intentionally disturbed by a neighbouring LED lamp
DK2OM	7000,0	1924	13	09	E		USB			Spanish fishery
DK2OM	7001,5	--	---	09	POL		PSK8	2400	2400	RF QRG 6998.5 kHz – 7000.3 kHz center - MIL-188-110A – 600 / 300 bps short – Polish MIL
DK2OM	7001,8	0522	12	09	TUR		PSK8A	2400	2400	Stanag-4285 – 600 bps - Istanbul – long lasting
DK2OM	7010,0	vt	vd	09	ALB	no ITU	FSK8	125	1750	ALE, “RS0” - Tirana
DK2OM	7010,0	2104	04	09			FSK8	125	1750	ALE, “920018”
DK2OM	7011,0 RF	0855	12	09	RUS		OFDM	33.55	2760	OFDM 60 – PSK8 - Kaliningrad
DK2OM	7018,0	---	--	09	RUS	REA4	F1B	100	800	mostly idling – Russian airforce Moscow – ident at full hour + 41 min. on F1A
DK2OM	7020,0	vt	vd	09	ALB		FSK8	125	1750	ALE, “CS004A” “RS004D” “CS004” - daily
DK2OM	7024,0	1724	26	09	FEa		FMOP		32k	Codar like ocean surface radar 2.6 sps – 7024 – 7056 kHz
DK2OM	7027,5	---	--	09	UKR	„V“	A1A			beacon “V” – Kyiv
DK2OM	7039,0	---	--	09	RUS	C	A1A			Cluster beacon C - Moscow RUS Navy - “RIW”
DK2OM	7039,2	---	--	09	RUS	F	A1A			Cluster beacon F - Vladivostok RUS Navy - “RJS”
DK2OM	7039,3	----	--	09	RUS	D	A1A			Cluster beacon D Petropavlovsk Kamchatskiy - RUS Navy - Pacific fleet - “RCC” - daily
DK2OM	7039,4	ady	dly	09	RUS	M	A1A			Cluster beacon M – Magadan RUS Navy – „RTS“
DK2OM	7040,0	ady	dly	09	I		A1A			IZ3DVW – uncoordinated and unwanted beacon

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	7040,5	vt	dly	09	HRV		FSK8	125	1750	ALE, "9A5EX" "9A0ALE" – just for info
DK2OM	7049,5	vt	dly	09	HRV G F	9A0ALE M1DFO F6BAZ	FSK8	125	1750	Amateur ALE, just for info! daily – various times
DK2OM	7050,0	0848	12	09	UKR		LSB		2200	simulcast AT3004D and Stanag-4285 – alternating disturbance - Kiyv
DK2OM	7050,0	vt	dly	09	KGZ		FSK8	125	1750	ALE, "X" "810" "820615" "810698" – Kyrgyzstan MIL
DK2OM	7055,0	0848	12	09	UKR		LSB		2200	simulcast AT3004D and Stanag-4285 – alternating disturbance - Kiyv
DK2OM	7070,0	vt	vd	09	GEO	no ITU	FSK8	125	1750	ALE, "MV" "244" "686" "334" "204" "571" – daily active
DK2OM	7088,8	1930	22	09	S	SL0FRO	A1A			7088.830 kHz - cw-trainee, Sweden - SL0FRO - just for info!
DK2OM	7089,8	---	--	09	TUR CYP		PSK8	2400	2400	Link11 - SLEW – aircraft – west of Cyprus
DK2OM	7091,5	---	--	09	KAZ	„V“	A1A			7091.543 kHz - loop with spurious – ident "V" – Almaty - Kazakhstan
DK2OM	7095,0	2042	21	09	CHN		FMOP		10k	Chinese OTH radar (foghorn) – 66.66 sps – 3.8 sec bursts
DK2OM	7099,5	vt	dly	09	HRV	9A0ZG	FSK8	125	1750	ALE, "9A0ZG" "9A5EX1P" "9A0OS" – daily - just for info!
DK2OM	7102,0	vt	dly	09	TWN		FSK8	125	1750	ALE, "BV4AS" – just for info!
DK2OM	7102,0	vt	vd	09	HRV SUI D	9A0MIL	FSK8	125	1750	ALE, "9A3MIL" "9A2KS" "HB9MHB" "9A0ZG" "9A4OS" "DK0ESD" – just for info!
DK2OM	7102,0	vt	dly	09	J		FSK8	125	1750	ALE, "JH1ESB" – just for info!
DK2OM	7104,0	0758	12	09	ROU		PSK8A	2400	2400	MIL-188-110A - Constanta
DK2OM	7110,0	vt	dly	09	HRV	9A0ALE	FSK8	125	1750	ALE, "9A0ALE" – just for info
DK2OM	7111,8	1605	14	09	ISR		PSK4 PSK8	75 2400	2400 2400	hybrid modem – ISR Navy – PSK4 parallel and PSK8 serial
DK2OM	7117,0	1818	21	09	CHN		FMOP		10k	Chinese OTH radar (foghorn) – 66.66 sps – 3.8 sec bursts
DK2OM	7117,0	---	--	09	RUS	REA4	F1B	100	1000	mostly idling – Russian airforce Moscow – ident on CW at 1640 utc on the mark-QRG
DK2OM	7120,0	vt	dly	09	SOM		A3E		9k	Radio Hargaysa – Somalia – daily – even audible in Australia and Japan
DK2OM	7122,0	1435	12	09	RUS		PSK2A	120	2600	AT3004D - Moscow
DK2OM	7137,0	vt	dly	09	TWN		FSK8 LSB	125	1750	ALE, "DEGDG" "DRYHD" "DCOY" "DSQLK" "DEIQW" "DETWY" Taiwanese navy – daily
DK2OM	7137,0	1940	10	09	RUS		F1B	50	200	
DK2OM	7140,0	1550	07	09	ERI ETH		A3E		9k	Radio Eritrea disturbed by Radio Ethiopia by white noise emissions
DK2OM	7145,0	1750	18	09			FMOP		32k	Codar like ocean surface radar 2.6 sps – 7145 – 7137 kHz
DK2OM	7157,0	1628	07	09	CHN		FMOP		10k	Chinese OTH radar (foghorn) – 66.66 sps – 3.8 sec bursts
DK2OM	7160,0	0730	26	09	RUS		F1B	100	500	
DK2OM	7162,0	1045	12	09	RUS		F1B	100	250	Moscow - idle
DK2OM	7173,0	1622	07	09	CHN		FMOP		10k	Chinese OTH radar (foghorn) – 66.66 sps – 3.8 sec bursts
DK2OM	7180,0	1640	05	09	ERI ETH		A3E		9k	Radio Eritrea disturbed by Radio Ethiopia by white noise emissions
DK2OM	7183,0	vt	dly	09	SUI		FSK8	125	1750	ALE, "HB9MHB" – just for info!
DK2OM	7185,5	vt	dly	09	J		FSK8	125	1750	ALE, "BV4AS" "JH1ESB" - just

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
					TWN					for info - daily
DK2OM	7195,0	2000	11	09	F	RFI	A3E/BC		20k	Radio France International on 7205 kHz with spurious emissions down to 7195 kHz
DK2OM	7196,0	1712	27	09	RUS		PSK2	12	2600	AT3004D – submode idle - Severomorsk
DK2OM	10100,8	ady	dly	09	D		F1B	50	450	Baudot - German Weatherservice – legal!
DK2OM	10110,0	vt	dly	09	SNG	no ITU	FSK8	125	1750	ALE, “CN6” “68” – Singapore Navy - Changi Naval Base
DK2OM	10112,0	---	--	09	I		PSK8A	2400	2400	Stanag-4285 – 600 bps long – area of Rome - daily
DK2OM	10113,0	vt	vd	09	TUN	no ITU	FSK8	125	1750	ALE, “TUD” “STAT5” “STAT154”
DK2OM	10114,0	vt	dly	09	ALG	no ITU	FSK8	125	1750	ALE, “BSF” “ZEN” “CM2OR2”
DK2OM	10114,8	0640	dly	09	RUS		F1B	100	1000	CIS14 – Moscow - daily
DK2OM	10115,0	vt	dly	09	MRC	no ITU	FSK8	125	1750	ALE, “100” “114” “203” “XXZ” – Western Sahara
DK2OM	10116,5	---	--	09	AFS		F7D	54.3	2120	MHF50 – 33 tones - South African navy
DK2OM	10120,0	vt	dly	09	ALG	no ITU	FSK8	125	1750	ALE, “CM6” “01012016”
DK2OM	10123,0	vt	dly	09	ALG	no ITU	FSK8	125	1750	ALE, “CM3” “COF” “BSF” “CM2” “ESA” – Algerian Airforce
DK2OM	10125,0	0817	26	09	RUS		PSK2A	120	2600	AT3004D - Moscow
DK2OM	10129,0	vt	dly	09	ALG	no ITU	FSK8	125	1750	ALE, “CM1” “CTF” “772”
DK2OM	10131,0	1641	13	09			PSK2A	120	2600	AT3004D -
DK2OM	10136,0	vt	dly	09	ALG	no ITU	FSK8	125	1750	ALE, “CM3” “BLD” “CNC” “TF2”
DK2OM	10144,0	ady	dly	09	D	DK0WCY	A1A			10144.000 kHz - DK0WCY – German aurora beacon – just for info!
DK2OM	10145,5	vt	dly	09		JH1ESB	FSK8	125	1750	ALE, “JH1ESB” - just for info - daily
DK2OM	10145,5	vt	dly	09	TWN AUS	BV4AS	FSK8	125	1750	ALE, “BV4AS” “VK4SAA” – just for info!
DK2OM	14000,0	1909	01	09	D		QRM			intentionally disturbed by a neighbouring LED lamp with S9
DK2OM	14000,0	1310	05	09	FEa		USB			male persons – like telephone
DK2OM	14000,0	2115	21	09	LBY		USB			male persons – 180 deg. - Tripoli
DK2OM	14000,0	1709	26	09			USB			Far East male persons
DK2OM	14001,0	1710	26	09	E?	no ident	A1A			someone transmitting on CW: “freedom for Catalonia”
DK2OM	14026,0	0920	07	09	RUS		PSK2A	120	2600	AT3004D – submode idle and traffic – Moscow – also 27.09.2017 at 0715 utc
DK2OM	14054,0	0927	07	09	RUS		PSK2A	120	2600	AT3004D – submode idle and traffic
DK2OM	14060,0	0743	19	09	CHN		FMOP		160k	Chinese wideband OTH radar – 10 sps – 14060 – 14220 kHz
DK2OM	14086,0	0942	26	09	CHN		FMOP		160k	Chinese wideband OTH radar – 10 sps – 14086 – 14248 kHz
DK2OM	14100,0	vt	dly	09	ALG	no ITU	FSK8	125	1750	ALE, “6206” “6204” “6212” “6202” “6203” “6207” “6217” “MTL” “IJI” – Mauritanian border – daily, all day
DK2OM	14100,0	1709	01	09	D		QRM			intentionally disturbed by a neighbouring LED lamp with S9
DK2OM	14105,0	0740	26	09	CHN		FMOP		160k	Chinese wideband OTH radar – 10 sps – 14105 – 14165 kHz
DK2OM	14106,0	0748	09	09	CHN		FMOP		10k	Chinese OTH radar (foghorn) – 66.66 sps – 7.6 sec bursts
DK2OM	14109,0	vt	dly	09	TWN	HAM	FSK8	125	1750	ALE, “BV4AS” – daily - just for info!

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	14109,0	vt	dly	09	INS	HAM	FSK8	120	1750	ALE, "YD00XH" – just for info!
DK2OM	14109,0	vt	dly	09	S HRV D		FSK8	125	1750	ALE, "SM3FXL" "9A4OS" "9A3BRV" "DK0ESD" - just for info!
DK2OM	14109,0	vt	vd	09	J		FSK8	125	1750	ALE, "JH1ESB" – just for info
DK2OM	14133,0	0950	09	09	CHN		FMOP		10k	Chinese OTH radar (foghorn) – 50 sps – 5 sec bursts
DK2OM	14137,0	0951	06	09			PSK2A	120	2600	AT3004D -
DK2OM	14142,0	0958	04	09	CHN		FMOP		10k	Chinese OTH radar (foghorn) – 50 sps – 5.0 sec bursts
DK2OM	14160,0	vt	dly	09	MRC		FSK8	125	1750	ALE, "9204" "9228" "9236"
DK2OM	14178,0	0715	22	09	CHN		FMOP		10k	Chinese OTH radar (foghorn) – 66.66 sps – 3.8 sec bursts
DK2OM	14190,0	0956	04	09	CHN		FMOP		10k	Chinese OTH radar (foghorn) – 66.66 sps – 5.0 sec bursts
DK2OM	14192,0	vt	vd	09	RUS		F1B	50 75 50 100 100	500 500 200 500 200	RUS navy Kaliningrad - daily
DK2OM	14192,0	0717	22	09	CHN		FMOP		10k	Chinese OTH radar (foghorn) – 66.66 sps – 3.8 sec bursts
DK2OM	14201,8	0930	04	09	CHN		PSK2	75	2200	PRC 16 tone modem – RF 14200.0 kHz - China – Shanghai - daily
DK2OM	14212,0	---	--	09	UKR		A3E			female voice with encrypted msgs – figures – "SZRU" = Foreign Intelligence Service of Ukraine in Rivne – heard by MOODV
DK2OM	14221,0	2035	vd	09	KGZ		F1B	50	200	CIS-50-50 - Bishkek – daily – – mostly idling
DK2OM	14226,0	0955	04	09	CHN		FMOP		10k	Chinese OTH radar (foghorn) – 66.66 and 50 sps – 3.8 sec bursts
DK2OM	14240,0	0811	26	09	RUS		F1B	100	250	unclean – Rostov na Donu
DK2OM	14242,0	0640	13	09	RUS		PSK2A	120	2600	AT3004D – also 19.09. at 0820 utc - Moscow
DK2OM	14260,0	vt	dly	09	SRB	YU1BI	FSK8	125	1750	ALE, "YU1BI" – just for info!
DK2OM	14260,0	0805	21	09	UKR		A3E			female voice with encrypted msgs – figures – "SZRU" = Foreign Intelligence Service of Ukraine in Rivne
DK2OM	14260,9	0736	13	09	RUS		OFDM	35.55	2760	OFDM 60 – PSK8B - Moscow
DK2OM	14272,0	---	--	09	RUS	RCV	A1A			RUS Navy Sevastopol
DK2OM	14282,0	0955	12	09	RUS		PSK2A	120	2600	AT3004D -
DK2OM	14289,0	0719	22	09	CHN		FMOP		10k	Chinese OTH radar (foghorn) – 66.66 sps – 3.8 sec bursts
DK2OM	14295,0	vt	dly	09	SRB	YU1BI	FSK8	125	1750	ALE, "YU1BI" – just for info!
DK2OM	14295,0	ady	dly	09	TJK		A3E		9k	3 rd from Radio Tajik on 4765 kHz – daily, all day
DK2OM	14304,0	0811	16	09	CHN		FMOP		10k	Chinese OTH radar (foghorn) – 66.66 sps – 3.8 sec bursts
DK2OM	14306,0	0952	04	09	CHN		FMOP		10k	Chinese OTH radar (foghorn) – 66.66 sps – 7.6 sec bursts
DK2OM	14340,0	0813	16	09	CHN		FMOP		10k	Chinese OTH radar (foghorn) – 66.66 sps – 3.8 sec bursts
DK2OM	14340,0	---	--	09	RUS		PSK2A	120	2600	AT3004D – Vladivostok with spurious emissions +/- 35 kHz and +/- 70 kHz - daily
DK2OM	14343,0	0848	10	09	CHN		FMOP		10k	Chinese OTH radar (foghorn) – 66.66 sps – 3.8 sec bursts - jumping
DK2OM	14346,0	vt	dly	09	POR		FSK8	125	1750	ALE, "CT2IXQ" just for info – various times, daily
DK2OM	14348,0	vt	dly	09	THA	HSOZEA	A1A			HSOZEA beacon – 14347.950 kHz - every 5 minutes – daily - just for info!

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	14351,6	---	--	09	E		OFDM PSK4A	30	2700	OFDM 73 + intro tone – HFD+VL - experimental transmissions – Las Palmas – just for info!
DK2OM	18080,0	0730	daily	09	TWN		A3E/BC			Sound of Hope – Taiwan and Chinese BC jammer – daily at 06 utc and later
DK2OM	18100,0	vt	dly	09	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	09	POR	CT2GOY	FSK8	125	1750	ALE, “CT2GOY” – just for info!
DK2OM	18106,2	vt	dly	09	TWN		FSK8	125	1750	ALE, “BV4AS” – just for info!
DK2OM	18107,0	vd	vt	09	RUS	RDL	F1B	50	200	CIS-50-200 - Moscow – idle and traffic – daily - Russian navy – shared band!
DK2OM	18117,5	vt	vd	09	POR	CT2IXQ	FSK8	125	1750	ALE, “CT2IXQ” – just for info
DK2OM	18140,0	vt	dly	09	SRB	YU1BI	FSK8	125	2600	ALE, “YU1BI” – just for info!
DK2OM	18150,0	---	--	09	RUS		F1B	100	1000	harmonic from 9075 (100 Bd, 500 Hz) - Kaliningrad
DK2OM	21000,0	2000	17	09	B		USB			Brazilian pirates – Rio de Janeiro with North Brazil – very often
DK2OM	21000,0	---	--	09	SDN		USB			MFA Sudan – Khartoum with emba Yemen – voice traffic
DK2OM	21000,0	1709	01	09	D		QRM			intentionally disturbed by a neighbouring LED lamp with S9
DK2OM	21002,2	---	--	09	SDN	!0000 !9999 !8888	F1B	100	170	21002.15 kHz - Pactor 1 encrypted – MFA Sudan – Khartoum with emba Yemen
DK2OM	21096,0	vt	dly	09	INS	YD00XH	FSK8	125	1750	ALE, “YD00XH3” – daily, various times - just for info!
DK2OM	21096,0	vt	vd	09	G		FSK8	125	1750	ALE, “M1DFO” – just for info!
DK2OM	21145,0	vt	dly	09	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	09	I	IZ3DVW	A1A			IZ3DVW beacon – 21145,790 kHz – daily, all day - not coordinated with IARU
DK2OM	21164,0	0745	08	09	CHN		FMOP		10k	Chinese OTH radar – 50 sps – 5 sec bursts
DK2OM	21166,0	0822	16	09	CHN		FMOP		10k	Chinese OTH radar – 42 sps – 6 sec bursts
DK2OM	21238,0	0939	21	09	CHN		FMOP		160k	Chinese wideband OTH radar – 10 sps – 21238 – 21398 kHz
DK2OM	21255,0	0825	16	09	CHN		FMOP		10k	Chinese OTH radar – 50 sps – 5 sec bursts
DK2OM	21290,0	0944	07	09	CHN		FMOP		10k	Chinese OTH radar – 42 sps – 6 sec bursts
DK2OM	21313,0	0835	05	09	CHN		FMOP		10k	Chinese OTH radar – 50 sps – 5 sec bursts
DK2OM	21326,0	0936	05	09	CHN		FMOP		10k	OTH radar – 50 sps – 5 sec bursts - foghorn
DK2OM	21346,0	0809	30	09	CHN		FMOP		10k	Chinese OTH radar – 50 sps – 5 sec bursts - jumping
DK2OM	21349,0	1000	11	09	CHN		FMOP		10k	Chinese OTH radar – 50 sps – 10 sec bursts
DK2OM	21358,0	0809	30	09	CHN		FMOP		10k	Chinese OTH radar – 50 sps – 5 sec bursts - jumping
DK2OM	21400,0	---	--	09	RUS		F1B	50	2000	harmonic from 5350 kHz – area of Moscow

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	21414,0	0749	08	09	CHN		FMOP		10k	Chinese OTH radar – 42 sps – 6 sec bursts
DK2OM	21415,0	0952	01	09	CHN		FMOP		10k	Chinese OTH radar – 50 sps – 5 sec bursts
DK2OM	21418,0	0830	05	09	CHN		FMOP		10k	OTH radar – 50 sps – 5 sec bursts
DK2OM	21431,0	0949	07	09	CHN		FMOP		10k	Chinese OTH radar – 50 sps – 5 sec bursts
DK2OM	21438,0	vt	vd	09	RUS	RCV	A1A			RIP90 de RCV - RUS Navy Sevastopol - daily
DK2OM	21446,0	ady	dly	09	THA	HSOZEA	A1A			HSOZEA beacon – every 5 minutes - just for info!
DK2OM	25000,0	---	--	09	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	2022	14	09	B		A3E			Brazilian CBers – 28000 – 28325 – daily, all day - no change
DK2OM	28000,0	ady	dly	09	CIS		F3E			28000 – 29700 numerous CIS taxi nets – no change
DK2OM	28000,0	1709	01	09	D		QRM			intentionally disturbed by a neighbouring LED lamp with S9
DK2OM	28000,0	vt	vd	09			unid			mysterious and unstable oscillations – QTE 220 °
DK2OM	28000,0	1926	01	09	I		USB			Italian pirates
DK2OM	28000,0 RF	1753	01	09	RUS		PSK2A	1200	1200	Kirov – also 06.09.2017 at 2006 utc
DK2OM	28000,0	0837	16	09	D		QRM			intentionally disturbed by a neighbouring LED lamp with S9
DK2OM	28005,0	1608	01	09	RUS		F3E			RUS taxi - Kaluga
DK2OM	28025,0	---	--	09	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoy
DK2OM	28075,0	---	--	09	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoy
DK2OM	28085,1	---	--	09	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoy
DK2OM	28146,0	vt	vd	09	ARG B		FSK8	125	1750	ALE, “LU8EX” “PY2TI” “DL1” – just for info!
DK2OM	28212,0	1523	29	09	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoy
DK2OM	28260,5	1527	28	09	I	no call	LSB			male voice calling “Lima Radio Queen” – Sicily Island
DK2OM	28435,0	----	--	09	E		F1B	81.9	140	Datawell-buoy “Waverider” – 28435.040 kHz – Costa del Sol – Malaga
DK2OM	28459,8	---	--	09	GAB		A3E		1060	carrier and dots in USB and LSB, bursts every 60 sec – carrier – Gabon - daily
DK2OM	28499,8	---	--	09	MEa		F1B	81.9	140	Datawell-buoy “Waverider” – 28499.875 kHz – Persian Gulf
DK2OM	28746,5	---	--	09	GAB		A3E			carrier and dots in USB and LSB, bursts every 60 sec – carrier – Gabon
DK2OM	28751,6	---	--	09	GAB		A3E		1080	carrier and dots in USB and LSB, bursts every 60 sec – carrier – Gabon
DK2OM	28960,0	0800	02	09	IRN		FMOP		50k	Iranian radar bursts – 150 and 313 sps – long lasting - daily
DK2OM	29114,0	---	--	09	RUS		F1B	100	2000	harmonic from 14557.0 kHz - Moscow
DK2OM	29249,9	---	--	09	E		F1B	81.9	140	Datawell-buoy “Waverider” –

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										29249.880 kHz – Spain Fuerteventura - daily, all day
DK2OM	29375,0	---	--	09	I		F1B	81.9	140	Datawell-buoy “Waverider” – 29374.898 kHz – Gallipoli, South Italy - daily, all day
DK2OM	29387,5	---	--	09	IND		F1B	81.9	140	Datawell-buoy “Waverider” – 29387.460 kHz – Indian NW coast, close to Pakistan - daily, all day
DK2OM	29400,0	---	--	09	USA		F1B	81.9	140	Datawell-buoy “Waverider” – 29400.070 kHz - USA north-east coast – NY daily, all day
DK2OM	29450,0	---	--	09	MRC		F1B	81.9	140	Datawell-buoy “Waverider” – 29449.863 kHz - area of El Aaiun – Morocco - daily, all day
DK2OM	29500,0	---	--	09	G		F1B	81.9	140	Datawell-buoy “Waverider” – 29499.974 kHz- area of Gibraltar – daily, all day
DK2OM	29525,0	---	--	09	MRC		F1B	81.9	140	Datawell-buoy “Waverider” – 29524.990 kHz - Agadir - Morocco – daily, all day
DK2OM	29625,0	---	--	09	USA		F1B	81.9	140	Datawell-buoy “Waverider” – 29625.024 kHz - USA north-east coast – daily, all day
DK2OM	29685,0	---	--	09	I		VFT		2300	Italian MIL – Brescia - daily
DK2OM	29699,5	---	--	09	I		VFT		1600	Italian MIL – Brescia - daily
DK2OM	50100,0	1709	01	09	D		QRM			intentionally disturbed by a neighbouring LED lamp with S7 – “many thanks” to German “PTT” Eschborn 🍌

IRTS – Ireland – EI3GYB (Michael)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	DETAILS
IRTS	1896.5	0210	15	09	D		F1B	German navy. Audible all night every night with huge signal.
IRTS	1920	0955	23	09	E or MM		USB	2 Spanish fishermen having fun. One ship is very strong, the other one barely audible.
IRTS	3510	0832	29	09	E or MM		USB	2 Spanish fishermen. Huge signals.
IRTS	3520	0830	29	09	E or MM		USB	2 Spanish fishermen. Switching over to “Cry2001“ voice scrambler after 5 minutes.
IRTS	3535	0942	29	09	UK or MM		USB	2 UK fishermen. Both with Ulster accents. Usual foul language. Names: Davie, Gerry. Ends at 0946z.
IRTS	3540	0838	19	09	UK or MM		USB	2 UK fishermen. English accent.
IRTS	3546	0940	29	09	E or MM		USB	2 Spanish fishermen. Medium signals.
IRTS	3560	1517	28	09	E or MM		USB	2 Spanish fishermen. Big signals.
IRTS	3640	1140	24	09			USB	Communication in CRY2001 voice scrambler.
IRTS	3640	0820	29	09	MM		USB	2 Japanese male voices. Both with very loud and clear signals. Plenty of “dodo”.
IRTS	3730	1305	11	09	E or MM		USB	2 Spanish fishermen. Very strong. QSO ends at 1315z.
IRTS	3740	0909	28	09	E or MM		USB	2 Spanish fishermen. Heard again at 1545z.
IRTS	3734.7	1357	09	09	POR or MM		USB	2 Portuguese fishermen chatting.
IRTS	5360	2100	16	09	MRC		USB	2 Moroccan fishermen.

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	DETAILS
					or MM			
IRTS	5362.5	1645	11	09	DNK		PSK8A	NATO military. Still heard 0320z the next day. Primary user- legal.
IRTS	5369	1750	02	09			FMCW	Radar from 5369 to 5409 KHz. Very loud- probably from Far East.
IRTS	5398.5	1500	22	09				Beacon like one tone signal. Audible nearly daily. Runs for hours on and off.
IRTS	5404	0425	02	09	MRC		USB	2 Moroccan fishermen chatting.
IRTS	5405	0400	05	09	MRC or MM		USB	2 Moroccan fishermen having a chat. Good signals.
IRTS	7001.8	2157	12	09	TUR		BPSK	NATO Istanbul. Still on the next evening at 2157. Not heard on the 14 th . Heard again on the 15 th at 1719z.
IRTS	7050	1604	21	09	UKR /RUS		LSB	UKR/RUS radio war with lots of propaganda MX and shouting of slogans.
IRTS	7055	1721	15	09	RUS/ UKR		LSB	RUS/UKR radio war with loads of shouting and agitprop.
IRTS	7070	0415	01	09	MRC		USB	2 Moroccan fishermen having fun.
IRTS	7078.5	0835	21	09			Digital	Big digital signal.
IRTS	7103.5	0657	17	09			Digital	Strong digital signal.
IRTS	7115	0257	15	09	MRC or MM		USB	2 Moroccan fishermen. Great signals.
IRTS	7119	1715	07	09			Digital	Monster digital signal. 59plus plus. On for hours. Probably military.
IRTS	7114.5	1214	18	09			Digital	Strong digital signal.
IRTS	7120	0349	01	09	SOM		AM	Radio Hargaysa with NX and MX. Very strong. Heard daily during the month early in the morning and late afternoon/early evening.
IRTS	7145	0410	17	09	ERI		AM	Radio Eritrea plus white noise from ETH. Heard often in the mornings and evenings.
IRTS	7180	1815	10	09	ERI		AM	Radio Eritrea. Heard daily in the late afternoon. Sometimes with white noise from ETH.
IRTS	7199.5	0655	17	09			Digital	Strong digital signal.
IRTS	10118	1120	16	09			FMCW	Radar from 10118 to 10139 KHz. Strong and persistent.
IRTS	10137.5	0402	19	09			FMCW	Radar, 10137.5 to 10162 KHz.
IRTS	10146	1536	01	09			FMCW	Radar from 10146 to 10157 KHz.
IRTS	14192	1557	03	09	RUS		F1B	RUS military Kaliningrad. Audible every day all day during daylight hours. Strong signal.
IRTS	14221	0404	01	09	KGZ		F1B	Bishkek. Military. Heard only during hours of darkness nearly daily.
IRTS	14259	0732	14	09			Digital	Very strong digital signal. No HAM traffic possible.
IRTS	14258.5	0829	21	09			PSK8	Very strong signal.
IRTS	14265	1203	11	09			F1B	Digital signal, on and off for two hours. Strong. Blocks frequency for everybody else.
IRTS	14266	1047	26	09			Digital	Huge digital signal covering everything from 14262 to 14271 KHz. Still on 2 hours later.
IRTS	14295	1607	28	09	TJK		AM	Radio Tajikistan, 3rd harmonic. Daily audible.
IRTS	14341	1055	26	09			RTTY	Big signal, still on 2 hour later.
IRTS	18112.5	0852	20	09			Digital	Probably a North Korean embassy from W. Africa
IRTS	18153	0930	23	09			FMCW	Radar from 18153 to 18194 KHz. Big signal.
IRTS	21238	1046	04	09			FMCW	Radar from 21238 to 21260 KHz. Huge signal, no HAM traffic possible.
IRTS	21352.5	1450	25	09			FSK	Digital traffic from a North Korean embassy in Western Africa.

KARS – Kuwait – 9K2RR (Faisal)

MRASZ – Hungary - HA7PL (Laci)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	DETAILS
MRASZ	3518,0	1906	14	9			A1A		"69T=AAAAA"
MRASZ	3524,0	1711	20	9			F1B	200	
MRASZ	3536,0	1908	28	9			A1A		"CVEYR POIUY" VXSAJ NCBFG PEYRH", 5I
MRASZ	3547,0	1823	14	9			A1A		"22588 75778 66446", 5 figs
MRASZ	3577,0	1848	26	9			F1B	250	
MRASZ	3662,5	1850	26	9			F1B	200	
MRASZ	3690,0	1907	5	9			LSB		music
MRASZ	3738,0	1851	26	9			F1B	250	
MRASZ	3741,5	1851	26	9			F1B	200	
MRASZ	3742,0	1909	5	9			F1B	100	
MRASZ	3750,0	1911	5	9			PSK2		AT3004D
MRASZ	3794,8	1912	5	9			N0N		
MRASZ	3797,0	1918	5	9			A1A		"033/46/6 W44/23/2 S033/47/9"
MRASZ	7001,8	1054	17	9	TUR		PSK8A	2400	Stanag 4825
MRASZ	7020,0	1827	26	9			F1B	250	
MRASZ	7049,0	1140	17	9			PSK2		AT3004D
MRASZ	7050,0	1137	17	9			LSB		russian propaganda, hrd: 28
MRASZ	7055,0	1728	14	9			LSB		music, chaos, hrd: 18, 20, 26
MRASZ	7120,0	1818	dly	9	SOM		A3E		R. Hargaysa
MRASZ	7140,0	1827	5	9	ERI		A3E		hrd: 6, 20, 26, R. Eritrea + QRM
MRASZ	7180,0	1834	5	9	ERI		A3E		hrd: 6, 20, 26, R. Eritrea + QRM
MRASZ	7198,0	1141	17	9			PSK2		AT3004D
MRASZ	14007,0	1704	26	9			USB		Ui. male
MRASZ	14192,0	1904	5	9	RUS		F1B	200	RUS Navy
MRASZ	14199,0	1852	5	9			A1A		dots and dashes, deliberate disturbance
MRASZ	14295,0	1905	5	9	TJK		A3E		Radio Tajik, 3rd. harm. hrd: 6, 20, 25

OEVSV – Austria – OE3GSA (Gerd)

PZK – Poland – SP9BRP (Jan)

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

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	Baud	Sh /Bw	DETAILS
R.E.F. F5MIU										September 2017
	3752	1652	6				lsb		3kHz	Voluntary disturbance with thistle S9+30 on JN15OT very near location
	7000	0840	14				USB		3kHz	Very week no lang. identified
	7000	1738	14				USB		3kHz	Very week no lang. identified S3, professionals
	7163	0802	28				LSB	75 ?	250Hz	RTTY pro ?
	10150	1648	01	09			fmcw		10kHz	4x SwPsec.: 55-48-45-50 ms

REP – Portugal – CT4AN (Jose Francisco)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REP	3500	18.55	03	09	E		J3E-U			Spanish fishery
REP	3510	07.59	10	08	F		J3E-U			French fishery
REP	3544	20.37	17	09	RUS		F1B	75	250	T206 modem, encrypted, Russia
REP	3547	21.31	22	09	RUS		F1B	50	200	T600 modem, encrypted, Russia
REP	3555	20.33	17	09			PSK8	2400	3k	NATO Stanag 4285 600/L
REP	3560	07.16	22	09	E		J3E-U			Spanish fishery

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REP	3570	07.49	25	09	F		J3E-U			French fishery
REP	3638	08.49	28	09	E		J3E-U			Spanish fishery, routes and catch weight
REP	3640	07.52	25	09	J		J3E-U			Japanese ops, prob ship in Atlantic
REP	3738	17.28	26	09	RUS		F1B	75	250	T206 modem, encrypted, Russia
REP	3747	21.32	22	09	RUS		F1B	50	200	T600 modem, encrypted, Russia
REP	6998	15.13	18	09	RUS		BPSK	120	3k	CIS12 modem, russia, up to 700kHz
REP	7000	21.26	03	09			BPSK	120	3k	CIS12 modem, encrypted
REP	7000	18.08	12	09			PSK8			NATO Stanag 4285 600/L, encrypted, unid
REP	7000	07.41	13	09			J3E-U			Unid language voice comms
REP	7000	08.02	25	09			J3E-U			Unid language ops
REP	7000	08.11	30	09			J3E-U			Unid ops
REP	7001	15.48	15	09			PSK8	2400	3k	NATO Stanag 4285 modem 600/L
REP	7006	16.23	25	09	RUS		F1B	75	250	T206 modem, encrypted, Russia
REP	7010	20.19	26	09		920001	FSK8			ALE unid "920001" clg "920037"
REP	7011	07.36	13	09			FSK8	125	2k	Unid ALE calls followed by voice comms
REP	7013	01.46	27	09		302005	FSK8			ALE unid "302005" msg to "226023" (AMD)
REP	7018	08.30	28	09	RUS		BPSK	120	3k	CIS12 modem, encrypted, Russia
REP	7050	17.43	03	09	KGY		FSK8	125	2k	ALE Kyrgyzstan MIL
REP	7070	10.45	01	09			J3E-U			Unid language ops
REP	7070	08.51	27	09		10003	FSK8			ALE unid "100032 sounding (TWS)
REP	7120	17.31	10	09	SOM		8k00 A3EGN			Radio Hargaysa
REP	7120	17.54	03	09	SOM		A3EGN			Radio Hargaysa, Somalan, everyday
REP	7140	All	Dly		ETH		A3EGN			Radio Eritreia jammed by R. Ethiopia
REP	7140	17.46	03	09	ETH		A3EGN			Radio Eritreia
REP	7162	08.33	28	09	RUS		F1B	75	250	T206 modem, encrypted, Russia
REP	7181	17.46	03	09	ETH		A3EGN			Radio Eritreia
REP	7185	17.02	03	09	RUS		PSK4	120	3k	AT3004D
REP	7193	17.46	17	09			FMOP		5k	Low rate OTH radar 5kHz wide
REP	7195	17.46	08	09			FMOP		5k	Low rate OTH radar, 5kHz wide
REP	7197	18.32	27	09		314	FSK8			ALE unid "314" clg "381"
REP	7197	18.49	27	09		379013	FSK8			ALE unid "379013" sounding (TWS)
REP	7197	19.02	27	09		123456	FSK8			ALE unid "123456" sounding (TWS)
REP	10111	08.51	11	09			J3E-U			Unid Arabic lang. fishery
REP	10113	09.42	27	09	TUN	TU1	FSK8			Tunisian MOI "TU1" clg "TUD"
REP	10113	09.12	27	09	TUN	TU1	FSK8			Tunisian MOI "TU1" clg "STAT154"
REP	10115	16.57	27	09	VEN	2014	FSK8			Venezuela Mil "2014" sounding (TWS)
REP	10120	09.40	27	09	ALG	CVZ	FSK8			Algerian AF "CVZ" clg "HA5"
REP	10125	16.30	27	09	MRC		J3E-U			Fishermen
REP	10131	08.52	08	09			J3E-U			Unid arabic lang. ops
REP	14010	08.21	09	09			F1B	50	250	
REP	14030	08.17	06	09	RUS		PSK2			AT3004D
REP	14135	20.30	10	09	RUS		FMCW			OTH radar, Russia
REP	14220	19.20	22	09	RUS		F1B	50	200	CIS-50 modem, Russian mil, evr dy
REP	14266	08.56	11	09	RUS		F1B	75	250	T206 modem, Russia
REP	14280	16.30	12	09	RUS		FMCW	50	17k	OTH radar
REP	18100	10.35	27	09	MRC	X201	FSK8			Morocco Mil "X201" clg "C3"
REP	21145	16.06	27	09	MRC	C3	FSK8			Morocco mil "C3" clg "ER3"
REP	28135	11.45	18	09	RUS		F3E			Taxi YL dispatcher
REP	29135	10.53	18	09	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	1000-1855/	7. 8.	9		UiMUX	PSK2	120	2600	
SRAL	7001,8	1230-0700	*	9	TUR	UiMUX	PSK8			Days: 11. 12. 15. – 19.
SRAL	7006,0	1620-1627/	25.	9		UiPTR	F1B		250	

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	REMARKS
SRAL	7018,0	0720-0845	28.	9		UiMUX	PSK2	120	2600	
SRAL	7020,0	0540-1110	5.	9		UiPTR	F1B		250	
SRAL	7035,0	1430-1615	1.	9		UiMUX	PSK2	120	2600	
SRAL	7044,0	1540-1551/	6.	9		UiPTR	F1B		250	
SRAL	7049,0	1130	13.	9		UiPTR	F1B			
SRAL	7059,0	1530-1630	12.	9		UiPTR	F1B		250	
SRAL	7065,0	1500-1530/	10.	9		UiMUX	PSK2	120	2600	
SRAL	7070,3	1250-1323/	1.	9		UiCarr	NON			
SRAL	7076,0	0800-1400	*	9		UiMUX	PSK2	120	2600	Days: 4. 6. 15. 23. 29.
SRAL	7076,0	1400	11.	9		UiPTR	F1B		250	
SRAL	7102,0	0410-0830	17.	9		UiMUX	PSK2	120	2600	
SRAL	7110,0	1200-1230	8.	9		UiPTR	F1B		250	
SRAL	7111,0	1155	23.	9		UiPTR	F1B		250	
SRAL	7112,0	0745-1400	1. 13.	9		UiPTR	F1B		250	
SRAL	7112,0	1315-1440/	11. 17.	9		UiMUX	PSK2	120	2600	
SRAL	7114,0	0430-1910/	*	9		UiPTR	F1A/B, NON		200	Days:1. – 6. 12. 14. MR 5F
SRAL	7114,0	0935-1410/	*	9		UiMUX	PSK2	120	2600	Days: 8. 15. 16. 18.
SRAL	7117,0	0700-1700	*	9		RMP	A1A			Days: 1. 2. 4. 5. 7. 8. 5F, 5BL
SRAL	7118,0	1645-1815	7.	9		UiMUX	PSK2	120	2600	
SRAL	7120,0	/0330-0500	dly	9	SOM	R.Hargeis a	A3E			
SRAL	7120,0	/1500-2000/	dly	9	SOM	R.Hargeis a	A3E			
SRAL	7122,0	1250-1530	12. 14.	9		UiMUX	PSK2	120	2600	
SRAL	7124,0	0650-0740/	20.	9		UiMUX	PSK2	120	2600	
SRAL	7127,0	1000-1300	*	9		AEIP	A1A			Days: 9. 10. 23. 5F
SRAL	7137,0	1630-1930	*	9		UiPTR	F1B/ NON		200	Days: 1. 2. 5. 7. 9. 11.
SRAL	7140,0	0300-0500	dly	9	ERI	VoBME	A3E			Jammed by ETH
SRAL	7140,0	1500-1835/	dly	9	ERI	VoBME	A3E			Jammed by ETH
SRAL	7145,0	0745	27.	9		UiCW	A1A			
SRAL	7148,9	1340	5.	9		UiPTR	F1B		400	
SRAL	7151,0	0945-1160	5.	9		UiMUX	PSK2	120	2600	
SRAL	7153,0	0745-1615	27.	9		UiCW	A1A			5BL, Z-code
SRAL	7158,0	1630-1645	1.	9		M23E	A1A			
SRAL	7160,0	0920	19.	9	RUS	RMW32	A1A			
SRAL	7162,0	0720-1251/	5. 28.	9		UiPTR	F1B		250	
SRAL	7169,0	1205	3.	9		EL3O	A1A			
SRAL	7170,0	0835-0930	23.	9		UiPTR	F1B			
SRAL	7171,0	0730-0800/	15.	9		UiMUX	PSK2	120	2600	

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	REMARKS
SRAL	7176,0	0600-0755/	6.	9		UiPTR	F1B		250	
SRAL	7177,0	1520-1700	14.	9		Uidotter	A1A			20 Hz
SRAL	7178,0	0815-0915	15.	9		UiMUX	PSK2	120	2600	
SRAL	7178,5	0750	17.	9		UiCW	A1A			5BL
SRAL	7180,0	0300-0530	10. – 30.	9	ERI	VoBME	A3E			Jammed by ETH
SRAL	7180,0	1430-1835/	10. – 30.	9	ERI	VoBME	A3E			Jammed by ETH
SRAL	7181,6	0300-0530	1. – 9.	9	ERI	VoBME	A3E			Jammed by ETH
SRAL	7181,6	1430-1835/	1. – 9.	9	ERI	VoBME	A3E			Jammed by ETH
SRAL	7187,0	0840-1320	*	9		UiCW	A1A			Days: 18. 19. 23. 5F, 5BL
SRAL	7192,1	1645-1751/	1. 4.	9		UiPTR	F1B		250	
SRAL	7198,0	0400-1740/	17. 25.	9		UiMUX	PSK2	120	2600	
SRAL	7 MHz			9	RUS	29B6	FMCW			50Hz / 15 kHz
SRAL	7 MHz			9	RUS	UiOTHR	FMCW			10Hz / 15 kHz, 30 sec, with 16 min cycle.
SRAL	10 MHz			9	RUS	29B6	FMCW			50Hz / 15 kHz (WebSDR 14d)
SRAL	14000,0	1150-0750/	3. 4.	9		UiCarr	N0N			
SRAL	14180,0	0900-1650	1. 2. 3.	9		UiPTR	F1B		250	
SRAL	14186,0	0830-1015	3.	9		UiPTR	F1B			
SRAL	14192,0	0900-1730	4. 5. 23.	9	RUS	UiPTR	F1B		200	
SRAL	14221,0	0400-0600/	dly	9	KGZ	UiPTR	F1B		200	
SRAL	14261,0	0700-0825	6. 7.	9		UiMUX	PSK2	120	2600	Spurious signals on + / - 25 kHz
SRAL	14266,0	0620-0710	4.	9		UiPTR	F1B		250	
SRAL	14269,0	1155	4.	9		UiPTR	F1B		250	
SRAL	14295,0	0400-1830	dly	9	TJK	R Tojikiston	A3E			3f 4765,00 kHz, Yangiyul TX
SRAL	14 MHz			9	RUS	29B6	FMCW			50Hz / 15 kHz, (WebSDR 3d)
SRAL	14 MHz			9	RUS	UiOTHR	FMCW			10Hz / 15 kHz, 30 sec, with 16 min cycle.
SRAL	18080,0	0615-0745	*	9	TWN	VoAsia	A3E			Days: 7. 27. 31.
SRAL	18 MHz	0830-1200	23.	9	CYP / TUR	UiOTHR	FMCW			25/50Hz / 20 kHz, (WebSDR 14d)
SRAL	21 MHz	0815-0840	10.	9	CYP / TUR	UiOTHR	FMCW			25/50Hz / 20 kHz, (WebSDR 15d)
SRAL	21438,0	/0830-0900	*	9	RUS	RCV	A1A			Days: 3. 17. 30.
SRAL	24 MHz			9		UiOTHR	FMCW			(WebSDR 0d)
SRAL	28600,0			9	IRN	UiOTHR	FMCW			307 & 870 Hz / 60 kHz – 300 kHz
SRAL	28960,0	0930-1000	7.	9	IRN	UiOTHR	FMCW			150 & 313 Hz / 60 kHz
SRAL	28 MHz	1230	27.	9		UiOTHR	FMCW			25/50Hz / 20 kHz (WebSDR 0d)
SRAL	28 MHz	0945-1600	7.	9	RUS	Taxi disp.	F3E			16 reports

USKA – Switzerland – HB9CET (Peter)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	3527.0	2136	03	09			F1B	50	200	daily
USKA	3552.0	2247	13	09			F1B	75	250	
USKA	3553.8	2139	03	09			PSK8	2400	2k4	Stanag 4285
USKA	3568.0	2248	13	09			F1B	75	250	
USKA	3578.0	2248	13	09			F1B	75	250	
USKA	3580.0	2145	03	09			F1B	75	200	
USKA	3582.0	2249	13	09			J7D	12x120	2k7	BPSK; CIS12
USKA	3732.0	2047	04	09			F1B	75	250	
USKA	7000.0	2122	03	09			J7D	12x120	2k7	BPSK; CIS12 often
USKA	7001.8	0838	12	09	TUR		PSK8	2400	2k4	Stanag 4285; often
USKA	7011.0 VFO USB	0907	12				OFDM6 0	30Bd	2k7	PSK4 modulated Tone spacing 44.46Hz
USKA	7018.0	0803	28	09			J7D	12x120	2k7	BPSK; CIS12
USKA	7103.0 VFO USB	2243	13	09		var	F1B	100	170	CODAN Selcall
USKA	7106.0 VFO USB	2224	13	09		var	F1B	100	170	CODAN Selcall
USKA	7112.0 VFO USB	2227	13	09		var	F1B	100	170	CODAN Selcall
USKA	7112.0 VFO LSB	2240	13	09			BPSK	30x60Bd	~2k5	Burst system; tone spacing 75 Hz. Preamble 4x PSK 60Bd, spacing 600Hz; Pilottone at 450Hz
USKA	7114.0	2129	03	09			F1B	50	200	often
USKA	7116.0	2144	12	09		6669	MFSK8	125	1750	ALE, MIL 188-141A
USKA	7119.9	1617	03	09	SOM		A3E			BC; Radio Hargaysa almost daily
USKA	7122.0	1224	14	09			J7D	12x120	2k7	BPSK; CIS12
USKA	7128.0	1415	13	09			OFDM		~3k	
USKA	7136.0	1231	14	09			F1B	75	500	
USKA	7139.0 VFO USB	2133	12	09		var	F1B	100	170	CODAN Selcall
USKA	7140.0	1614	03	09			A3E			BC; massively jammed often
USKA	7140.0	1614	03	09					~ 20k	Jammer, white noise often
USKA	7142.0 VFO USB	2254	13	09		var	F1B	100	170	CODAN Selcall
USKA	7161.875	0807	28	09			A1A			Jammer. Stupid and illegal!
USKA	7162.0	0807	28	09			F1B	75	250	jammed
USKA	7163.0 VFO LSB	2128	12	09			BPSK	30x60Bd	~2k5	Burst system; tone spacing 75 Hz. Preamble 4x PSK 60Bd, spacing 600Hz; Pilottone at 450Hz
USKA	7180.0	1611	03	09					~ 10k	Jammer, white noise, heavy
USKA	7181.5	1611	03	09	ERI?		A3E		~8k	BC, massively jammed
USKA	14000.0	1607	03	09			NON			long lasting carrier often
USKA	14160.0	0814	28	09			F1B	75	250	often
USKA	14185.0	0837	26	09			FMOP	10 sps	160k	OTHR
USKA	14192.0	0846	03	09			F1B	50	200	almost daily
USKA	14221.0	2032	04	09			F1B	50	200	almost daily
USKA	14240.0	0815	28	09			F1B	75	250	
USKA	14259.0 VFO USB	0733	14	09			OFDM6 0	35.56Bd	2k7	PSK8 modulated; Tone spacing 44.45Hz
USKA	14280.0	0729	12	09			J7D	12x120	2k7	BPSK; CIS12
USKA	14280.0	1056	12	09			F1B	75	250	
USKA	14300.0	0841	26	09			FMOP	10 sps	160k	OTHR
USKA	14302.0	1146	01	09			J7D	12x120	2k7	BPSK; CIS12
USKA	14330.5	1227	08	09			PSK2-B	1200	1k2	ARQ
USKA	14344.0	1159	12	09			J7D	12x120	2k7	BPSK; CIS12
USKA	18107.0	1150	06	09		RDL	F1B	36 + 50	200	CIS 36-50 often
USKA	18107.0	1627	27	09		RDL	F1A		200	groups of five
USKA	18170.0	1431	27	09			FMCW	50 sps	20k	OTHR, partially in 17m band

Veron – Netherlands – PA2GRU (Dick)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SHIFT	DETAILS
VERON	3524,0	21.53	2	9		UiPtr	F1B	250	Printer
VERON	7000,0	18.16	12	9	Danmark	Stanag	BPSK		Stanag 4285 Nato Danish Navy legal
VERON	7000,0	19.09	15	9	Turkey	Stanag	BPSK		Stanag 4285
VERON	7038,5	19.21	10	9			A1A		Persisting dots; stuck keyer?
VERON	7050,0	19.19	10	9	UKR/RUS		J3E-1		Russian speech; 2 stn same frequency.
VERON	7051,5	18.23	2	9		UiMux	FSK8	1k8	
VERON	7051,5	19.05	9	9		UiMux	FSK8	1k8	
VERON	7114,0	21.01	2	9		UiPtr	F1B	200	Printer
VERON	7114,0	22.35	9	9		UiPtr	F1B	200	Printer
VERON	7120,0	vt	vd	9	SOM	R.Hargaisa	A3E		E. Afr. Speech & music; S8
VERON	7137,0	vt	vd	9		UiPtr	F1B	200	Printer
VERON	7200,0	17.05	2	9	CHN/TWN	UiBC	A3E		Chinese speech; S8
VERON	14008,0	07.48	17	9	RUS	UiPtr	F1B		Ptr nr. Moscow
VERON	14116,5	10.30	2	9		UiMux	F7D	2k2	
VERON	14180,0	11.44	2	9		UiPtr	F1B	250	Printer
VERON	14186,0	09.41	3	9		UiPtr	F1B	250	Printer
VERON	14192,0	20.05	9	9	RUS	UiPtr	F1B	200	Rus navy
VERON	14237,3	18.54	10	9	RUS	UiMux	PSK8	2k8	
VERON	14237,3	20.01	10	8	RUS	UiMux	PSK8	2k8	
VERON	14295,0	17.16	9	9	TJK	R. Tajik	A3E		3rd from 4765kHz; S5
VERON	18107,0	09.28	3	9	RUS	UiPtr	F1B	200	Printer idling; bad modulation
VERON	18108,4	14.18	10	9		UiPtr	F1B	200	Printer idling

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SHIFT	DETAILS
VERON	3524,0	21.53	2	9		UiPtr	F1B	250	Printer
VERON	3525,0	18.06	27	9	CIS	APXB	A1A		Calls to: 7BMD 9QJP GS6A IHGE 6VSG
VERON	3548,0	18.15	27	9		UiPTR	F1B		Ptr
VERON	3592,0	18.20	27	9		ETKA	A1A		Calls many times: ETKA
VERON	3634,0	18.22	27	9	CIS	UiCW	A1A		750 333 84345 many times
VERON	3634,0	18.23	27	9		UiCW	A1A		750 333 83625 many times
VERON	3698,0	18.52	7	9	CIS	C5JU	A1A		J8I5 de C5JU QTC 433 5F ending QLN k
VERON	3698,0	18.50	30	9	CIS	UiCW	A1A		5BL
VERON	3700,0	20.25	20	9		UiPTR	F1B		Ptr
VERON	3732,0	20.15	4	9		UiPTR	F1B		Ptr
VERON	3738,0	18.23	1	9		UiPTR	F1B		Ptr also 27/9 1816 UTC
VERON	3745,5	18.20	1	9	RUS	RMP	A1A		REO de RMP QTC 975 1111 5F
VERON	3797,0	20.24	4	9	RUS	RCV	A1A		Prip Noworossijsk weak
VERON	7000,0	18.16	12	9	Danmark	Stanag	BPSK		Stanag 4285 Nato Danish Navy legal
VERON	7000,0	19.09	15	9	Turkey	Stanag	BPSK		Stanag 4285
VERON	7038,5	19.21	10	9			A1A		Persisting dots; stuck keyer?
VERON	7050,0	19.19	10	9	UKR/RUS		J3E-1		Russian speech; 2 stn same frequency.
VERON	7051,5	18.23	2	9		UiMux	FSK8	1k8	
VERON	7051,5	19.05	9	9		UiMux	FSK8	1k8	
VERON	7114,0	21.01	2	9		UiPtr	F1B	200	Printer
VERON	7114,0	22.35	9	9		UiPtr	F1B	200	Printer
VERON	7120,0	vt	vd	9	SOM	R.Hargaisa	A3E		E. Afr. Speech & music; S8
VERON	7137,0	vt	vd	9		UiPtr	F1B	200	Printer
VERON	7137,0	18.15	1	9	CIS	UiPTR	F1B		Revs/Ptr also 4/9 20.24 UTC
VERON	7200,0	17.05	2	9	CHN/TWN	UiBC	A3E		Chinese speech; S8
VERON	14008,0	07.48	17	9	RUS	UiPtr	F1B		Ptr nr. Moscow

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SHIFT	DETAILS
VERON	14116,5	10.30	2	9		UiMux	F7D	2k2	
VERON	14160,0	09.10	26	9		UiPTR	F1B		Ptr
VERON	14180,0	11.44	2	9		UiPtr	F1B	250	Printer
VERON	14180,0	11.31	3	9	CIS	UiPTR	F1B		Revs/Ptr
VERON	14180,0	11.36	3	9	RUS	RDL	F1A		RDL 65617 76743 k
VERON	14180,0	11.37	3	9	RUS	RDL	F1A		RDL 38239 95375 k
VERON	14186,0	09.41	3	9		UiPtr	F1B	250	Printer
VERON	14192,0	20.05	9	9	RUS	UiPtr	F1B	200	Rus navy
VERON	14192,0	09.35	5	9	CIS	UiPTR	F1B		Revs/Ptr
VERON	14237,3	18.54	10	9	RUS	UiMux	PSK8	2k8	
VERON	14237,3	20.01	10	8	RUS	UiMux	PSK8	2k8	
VERON	14240,0	09.11	26	9		UiPTR	F1B		Ptr
VERON	14295,0	17.16	9	9	TJK	R. Tajik	A3E		3rd from 4765kHz; S5
VERON	18107,0	09.28	3	9	RUS	UiPtr	F1B	200	Printer idling; bad modulation
VERON	18108,4	14.18	10	9		UiPtr	F1B	200	Printer idling

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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