



Monitoring System

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The monthly newsletter for Region 1

May 2015

The 29 members of the IARUMS Region 1 Monitoring Team:



Acknowledgements

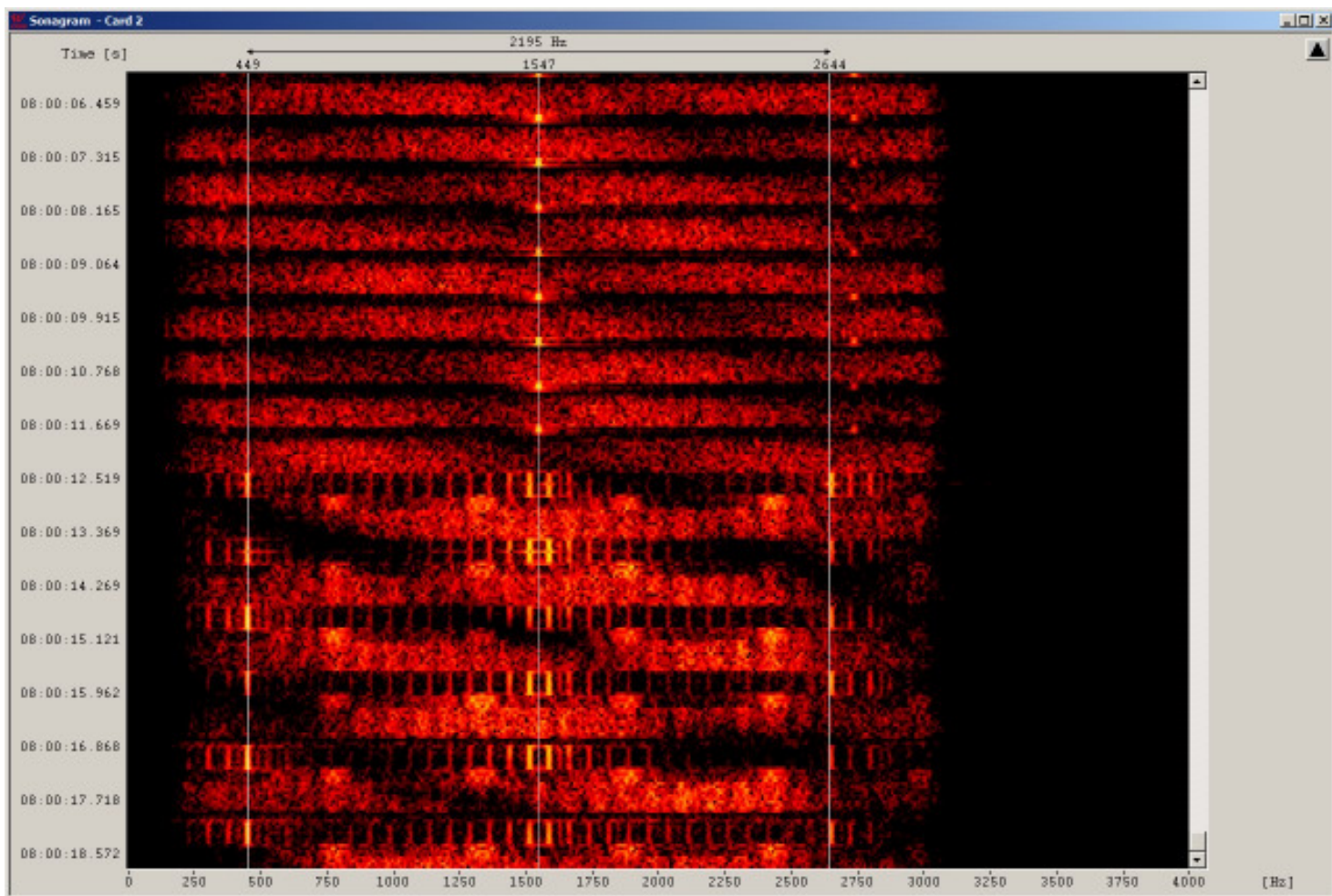
ARAT: 3V8CB – Ahmed ++ ARI: DH7SA – Salvatore ++ ARSK: 5Z4NU - Ted ++ ASTRA: DL1BDF – Mustapha ++ DARC: DK2OM – Wolf ++ ERASD: SU1SA – Sayed ++ HRS: 9A5DGZ – Gianluca ++ IARC: 4Z1AB – Amos ++ IRTS: EI9GSB - Lisa ++ KARS: 9K2RR – Faisal ++ MARL: 9H1M – Dominic ++ MRASZ: HA7PL - Laci ++ NARS: 5N9AYM – Yusuf ++ NRRL: LA4EU – Hans Arne ++ OEVS: OE3GSA – Gerd ++ PZK: SP9BRP – Jan ++ RAL: OD5RI – Riri ++ REF: F5MIU – Francis ++ REP: CT4AN – Jose ++ ROARS: A41MA - Younis ++ RSGB: M0VRR - Vaughan ++ SARL: ZS4GJA - Gideon ++ SRAL: OH2BLU - Pekka ++ SSA – Ullmar ++ UBA: ON4PN - Patrick URE: EB1TR - Fabian ++ USKA: HB9CET - Peter ++ VERON: PA2GRU - Dick ++ ZRS: S56ZDB – Darko ++ G3VZV – Graham (satellite) ++ TG9ADV – Jorge (Co-ordinator Region 2) ++ VK3MV – Peter (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 ++ PTTs: BAKOM (Swiss), BNetzA Konstanz (Germany) ++ OFCOM (UK) ++ Dutch AT ++ SK6AW – DX-Cluster ++ YO9RIJ – Petrica

Part 1: News and Infos

1. Chinese bursts and dots on 14301.7 kHz (center QRG)

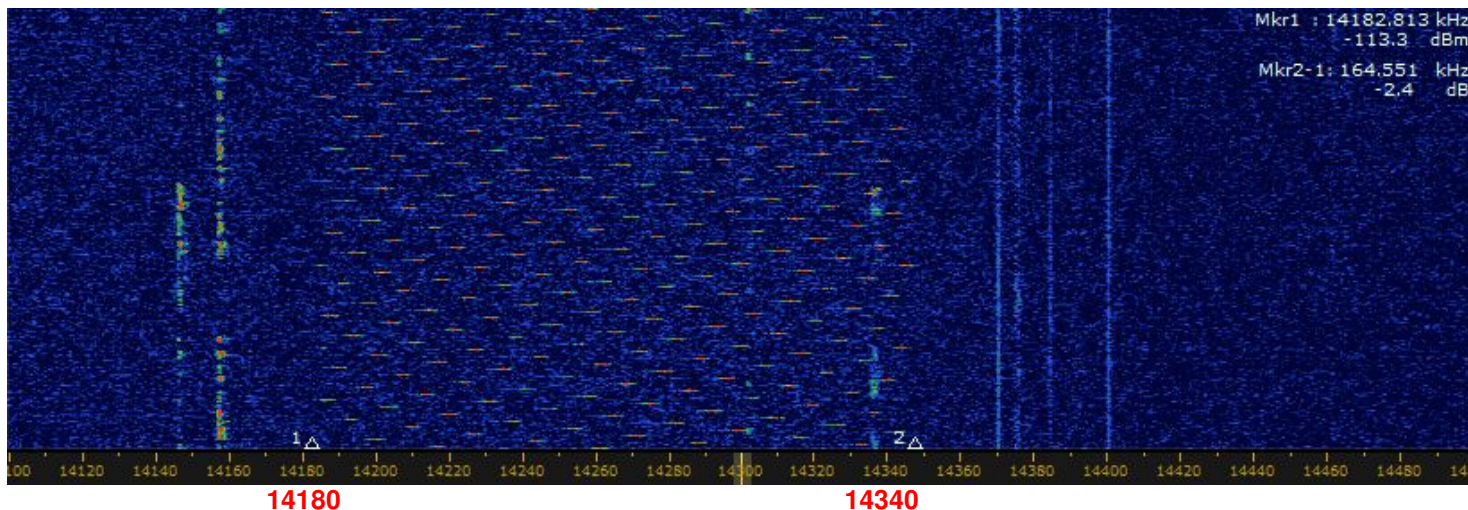
The Chinese system PRC16 on 14301.7 kHz was daily heard around the world. Details:
16 x 75 Bd PSK2 – shift 2200 Hz – data bursts and dots (pips) between the bursts, possibly a kind of channelmarker – location Shanghai
screenshot: DK2OM with Wavcom W-Code on May 30th 2015 showing the data bursts and pips

soundfile: <http://www.iarums-r1.org/iarums/sound/14300-prc16.wav>



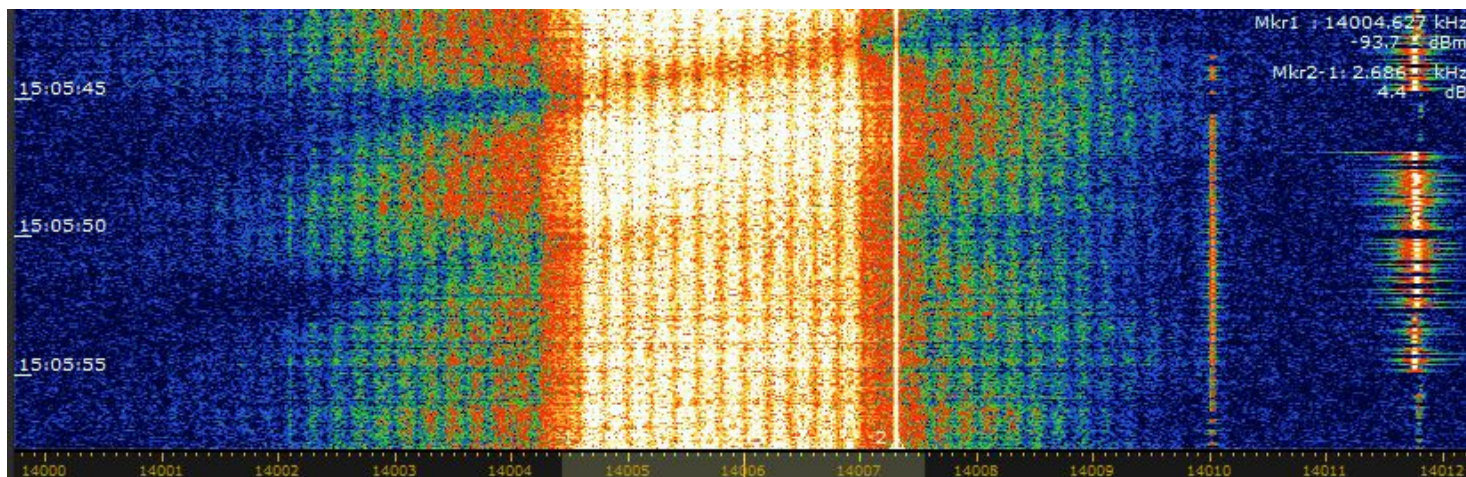
2. Chinese broadband OTH radar on 14 MHz

The Chinese broadband (long range) OTH radar was again active on 14 MHz on May 31st.
Details: 10 sps, about 160 kHz wide – The system allows good resolutions over long distances.
Screenshot: DK2OM



3. Russian MIL traffic on our bands

Russian digital MIL transmissions on 7 and 14 MHz were increasing.
Screenshot: DK2OM showing the Russian MIL system AT3004D (12 x 120 Bd BPSK) on 14006 kHz with many splatters – disturbing 14000 – 14010 kHz on May 31st.



4. Good News

18080.0 now clear again – no longer SOH Taiwan and the Chinese mainland jammer!
The Russian voice scrambler Yahkta left 21000 kHz USB.

Costas, SV1XV sent me an important mail!

“Please note that a couple of weeks ago at least three of the Russian single letter beacons (D, P and C) moved out of the 40 m band and now use new frequencies near 7509 kHz”.

Of course, I was very curious to check the situation. Now my results: D, P, S, C no longer on 40 m-band.

F, K, and M still active in Far East Russia, heard by remote. Many thanks dear Costas for information!

5. Bad News

7120.0 BC / A3E – Radio Hargaysa Somalia still there – no change

7175.0 BC / A3E – Radio Eritrea – several times reported

7200.0 BC / A3E – IRIB Tehran – no change

7205.0 BC / A3E – RFI – Radio France International splattering down – no change

14295.1 – BC / A3E – 3rd from Radio Tajik on 4765 kHz – daily, all day – no change

6. 21445 – BC Intermodulation from China

Daily intermodulation observed by DK2OM at 1000 – 1100 utc – many thanks for help to DF5SX and Hiroshi. 'Hiroshi' from Japan says: $17650 \times 2 = 35300$, minus $13855 = 21445$ kHz

17650 CHINA RADIO INTERNATIONAL 1300-1357 1234567 French 500 308 - Kashi-Saibagh 2022 TKS

13855 CHINA RADIO INTERNATIONAL 1300-1357 1234567 Chinese 500 308 - Kashi-Saibagh 2022 TKS

7. Buoys on 28 MHz

Due to Sporadic-E conditions we found again many driftnet buoys on 28000 – 28500 kHz together with Enagal GPS-buoys. The Enagal buoys are transmitting with F1B bursts. Many of them are located in the Atlantic Ocean west of Portugal. I found another Datawell buoy on 28499.875 kHz, direction south-east (F1B – 81.9 Bd).

Please visit the buoy summary of May 2015: <http://www.iarums-r1.org/iarums/buoys.pdf>

8. OTH radars

The Iranian OTH radar was (and is) daily transmitting on 28600 kHz with splatters about +/- 350 kHz . The Russian OTH radar Contayner appeared on 14 MHz from time to time. Chinese broadband radars interfered the 80 and 40 m-band in Region 3.

9. Hamradio 2015 – Invitation to all coordinators and friends!

IARUMS Region 1 and DARC Monitoring System Meeting at the HAM-RADIO 2015 in Friedrichshafen:

Saturday, June 27th 2015 from 10.00 – 11.30 local time - Room Switzerland (180) – Hall A2

10. Homepage IARU Region 1

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

Homepage IARUMS Region 1

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

Homepage IARUMS Region 2

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

Homepage IARUMS Region 3

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

Intruderlogger Region 1

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

ITU-Monitoring Reports:

<http://www.itu.int/ITU-R/index.asp?category=terrestrial&mlink=terrestrial-monitoring&lang=en>

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 *** **pps** = pulses per second (earlier radar systems) *** **sps** = sweeps/sec (radar systems) *** **FMCW** = frequency modulated continuous wave (OTH and coastal Radars)
5BL = cyrillic 5 lettergroups

ARSK MONITORING OVERVIEW FOR MAY 2015

No apparent changes. Radio Hargeisha remained on 7,120 kHz with broadcasts and what is apparently the Voice of the Broad Masses, Eritrea, on 7175 kHz. They seem to have left 7185 kHz and were not heard on 7,200 kHz.

E/H.M. Alleyne, 5Z4NU

ARSK National IARUMS Co-ordinator

ARSK – Kenya – 5Z4NU (Ted)

H'd by	kHz	UTC	dd	mm	ITU	Identity	MODE	Details
ARSK	7.000.00	vt	dly	3	E. Africa	?	J3Eu	Unidentified, KiSwahili, East Africa. Possibly Kenya military or Police.
ARSK	7,038.40	0340	10	3	?	?	A1A	Continuous letter D
ARSK	7,040.00	1245	6	3	E. Africa	?	J3Eu	Unidentified, KiSwahili and vernacular, East Africa.
ARSK	7,075.00	vt	dly	3	E. Africa	?	J3Eu	Unknown African language
ARSK	7,120.00	vt	dly	3	Rep.of Somalia	Hargeisha	A3E	Broadcast
ARSK	7,175.00	1655	4	3	ERI?	VOBM?	A3E	Unidentified language and music. Possibly Ethiopian or Eritrean. Voice of the Broad Masses, Eritrea? Stops at 0600 Z
ARSK	7185.00	1430	26	3	ERI?	VOBM?	A3E	May be VOBM.

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

DG0JBJ (Mario) observed **51** OTH radars on 20 m, **58** OTH radars on 15 m and **50** OTH radars on 10 m in May 2015. A Chinese OTH radar disturbed 160 kHz of our 21 MHz-band. The Russian OTH radar Contayner caused strong interference on 7 MHz on several evenings.

DARC 2 – Germany - DK2OM (Wolf)

FSK transmissions -> center frequency between mark and space

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

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

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

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	1812,0	2005	02	05	RUS		USB LSB			14 tones – hyperbolic radio navigation system – BRAS-3/RS-10 – Kaliningrad – no carrier - daily, all day
DK2OM	1852,0	2043	26	05	I	IPP	USB			Palermo Radio, weather reports
DK2OM	1855,0	2044	26	05	I	IQP	USB			San Benedetto Radio, weather reports
DK2OM	1876,0	2044	26	05	I	IQN	USB			Lampedusa Radio, weather reports
DK2OM	1880,0	---	--	05	BEL		PSK8	2400	2400	Stanag4285 – 600 bps long – area

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										of Brugge – Belgium - daily
DK2OM	1888,0	2046	26	05	I	IPD	USB			Civitavecchia Radio, weather reports
DK2OM	1896,5	2000	28	05	D		PSK8	2400	2400	Stanag4285 – 600 bps long – German Navy
DK2OM	1925,0	2051	26	05	I	IPL	USB			Livorno Radio, weather reports – daily, vt
DK2OM	3500,0	vt	dly	05	TUR		FSK8	120	1750	ALE, “201” - Turkish Red Crescent – legal!
DK2OM	3500,0	2044	26	05	E		USB			Spanish fishery
DK2OM	3500,6	1934	12	05	CIS		A3E			CIS pirates – unstable carrier
DK2OM	3503,5	2118	28	05	G	no ITU	FSK8	125	1750	ALE – “XSS” “XPU” “XJR” – British MIL Tascomm – vt, daily - legal!
DK2OM	3504,0	2008	11	05	RUS		F1B	75	200	Moscow
DK2OM	3519,5	2015	24	05	RUS		F1B	50	200	north of Arkhangelsk
DK2OM	3526,0	1909	16	05	RUS		PSK2A	120	2600	Kaliningrad
DK2OM	3527,0	2000	07	05	RUS		F1B	50	200	Severomorsk - daily
DK2OM	3531,0	1950	05	05	RUS		N0N			unclean carrier - RUS airforce Moscow, ident: 1940 utc
DK2OM	3534,5	vt	dly	05	HOL		FSK8	125	1750	ALE, “A03” “A15” “A10”
DK2OM	3536,0	1918	06	05	RUS		F1B	75	250	Kaliningrad
DK2OM	3544,8	1950	15	05			PSK8	2400	2400	Stanag4285 – 600 bps long – ship Black Sea
DK2OM	3549,2	2026	11	05	CIS		A3E			CIS pirates – unstable carrier
DK2OM	3550,0	vt	vd	05	ALG	no ITU	FSK8	125	1750	ALE, “IU50” “IU52” “FN50”
DK2OM	3550,7	2104	27	05	ISR		PSK4 PSK8	2400 2400	2400 2400	hybrid modem – ISR Navy – PSK4 parallel and PSK8 serial - legal operation
DK2OM	3553,8	ady	dly	05	TUR		PSK8	2400	2400	Stanag4285 – 600 bps long -TUR MIL - Ankara – daily, all day - legal operation
DK2OM	3562,3	2019	18	05	HOL		PSK8	2400	2400	Stanag4285 – 600 bps long – ship north of Netherlands
DK2OM	3567,0	vt	dly	05	CHN ?	no ITU	FSK8	125	1750	ALE, “103” “106”
DK2OM	3575,0	1945	21	05	HOL		USB			Dutch fishery
DK2OM	3576,4	ady	dly	05	I	IZ3DVW	A1A			uncoordinated beacon
DK2OM	3585,0	2045	21	05	TWN	HLL	F1C			120 rpm, IOC 576, WX-fax - daily - legal!
DK2OM	3586,0	1848	23	05	CHN		FMCW		75	Chinese OTH radar – 43 sps – 3586 – 3661 kHz
DK2OM	3587,0	vt	vd	05	E	no ITU	FSK8	125	1750	ALE, “TVV” “TXX” - Spanish Guardia Civil
DK2OM	3590,0	vt	dly	05	PAK	no ITU	FSK8	125	1750	ALE, “KW” “KHAIBAR” – Pakistan navy
DK2OM	3593,8	1940	12	05	RUS	P	A1A			Cluster beacon – Kaliningrad RUS Navy – “RMP”
DK2OM	3595,0	vt	dly	05	D		FSK8	125	1750	ALE – German customs
DK2OM	3596,0	2005	01	05	D, S, HRV		FSK8	125	1750	ALE, “DK3CW” “SA6CBK” “9A0PZ” – just for info!
DK2OM	3596,0	2057	04	05	RUS		PSK2A	120	2600	AT3004D – St. Peterburg – also 18.05.2015 at 2030 utc
DK2OM	3617,0	vt	dly	05	HRV	9A5EX	FSK8	125	1750	ALE, “9A5EX” – HAM-ALE - just for info
DK2OM	3622,5	2012	19	05	J	JMH	F1C			Tokyo Meteo – 120 rpm – IOC576 – daily, legal!!!
DK2OM	3624,0	1848	11	05	CHN		FMCW		43k	Chinese OTH radar – 43 sps – 3624 – 3667 kHz
DK2OM	3640,0	vt	vd	05	G		FSK8	125	1750	ALE, “XSS” - British MIL Tascomm – just for info!
DK2OM	3640,0	2048	28	05	CHN		FMCW		134k	Chinese OTH radar – 86 sps 3640 – 3774 kHz
DK2OM	3642,0	ady	dly	05	CHN		A1A			endless slip – DKG6 de 3A7D Chinese military – daily, all day
DK2OM	3649,0	vt	vd	05	ALG	no ITU	FSK8	125	1750	ALE, “BI20” PA20”
DK2OM	3662,0	vt	vd	05	FEa		A1A			endless slip – RA5J de BP2S
DK2OM	3695,0	1821	04	05	CHN		FMCW		45k	Chinese OTH radar – 43.5 sps

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										3695 – 3740 kHz
DK2OM	3700,0	0827	03	05	CHN		FMCW		45k	Chinese OTH radar – 43 sps – 3700 – 3745 kHz
DK2OM	3711,2	2007	01	05	G		OFDM	20	2400	OFDM51 – UK MIL – daily, all day
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	2006	01	05	RUS		A3E			RUS MIL – channel marker – Tuapse – East Black Sea – night QRG
DK2OM	3761,5	vt	vd	05	POL	no ITU	FSK8	125	1750	ALE, “NI9” “PL7” “AB2” – Polish MIL
DK2OM	3777,0	vt	dly	05	FEa		A1A			“RIS9 de M8JF” – endless slip – rcvd via JA
DK2OM	3782,5	1921	06	05	RUS		PSK2A	120	2600	AT3004D - Sevastopol
DK2OM	3791,0	vt	vd	05	D	DK0ESD	FSK8	125	1750	ALE, “DK0ESD” – daily just for info!
DK2OM	6998,0	vt	dly	05	GRC		FSK8	125	1750	ALE, “GEF” “EK9” – highest tone on 7000.5 kHz – Greek military
DK2OM	6999,0	vt	dly	05			FSK8	125	1750	ALE, “537” “725” – signal center = 7000.625 kHz
DK2OM	7000,0	vt	dly	05	?	no ITU	FSK8	125	1750	ALE, “210” “20989” “2205” “203”
DK2OM	7000,0	0953	04	05	INS		USB LSB			Indonesian pirates – daily – audible in Europe in the evenings
DK2OM	7000,0	1906	16	05	RUS	D	A1A			spurious from Cluster beacon – Sevastopol RUS Navy – “RCV” on 7038.7 kHz
DK2OM	7000,0	1927	10	05	I		LSB			Italian pirates splattering up
DK2OM	7000,0	0630	19	05	I		USB			Italian pirates
DK2OM	7000,0	1955	26	05	E		USB			Spanish fishery
DK2OM	7000,0	1250	30	05	CHN		FMCW		95k	Chinese OTH radar – 43.5 sps - 7000 – 7095 kHz
DK2OM	7001,5	2000	02	05	ALG		PSK4A	62.5	1750	Clover 2000 – 8 x 62.5 Bd – Algeria – daily, vt
DK2OM	7005,0	1439	22	05	INS		USB LSB			Indonesian pirates
DK2OM	7010,0	1423	22	05	INS		USB LSB			Indonesian pirates
DK2OM	7011,0	1457	10	05		E721	LSB			pirates in English voice – one fellow using PD2PA – not in QRZ.com
DK2OM	7015,0	1406	26	05	INS		USB			Indonesian pirates
DK2OM	7015,5	2100	13	05	AFG		PSK4A	62.5	1750	Clover 2000 – 8 x 62.5 Bd - Afghanistan
DK2OM	7018,0	---	--	05	RUS	REA4	F1B	100	1000	mostly idling – Russian airforce Moscow – ident at full hour + 40 min.
DK2OM	7020,0	1424	22	05	INS		USB LSB			Indonesian pirates
DK2OM	7025,0	1440	22	05	INS		USB LSB			Indonesian pirates
DK2OM	7030,0	1425	22	05	INS		USB			Indonesian pirates
DK2OM	7030,0	1935	29	05	CHN		FMCW		67k	Chinese OTH radar – 43.5 sps - 7030 – 7097 kHz
DK2OM	7033,0	1007	22	05	UKR		PSK2A	120	2600	AT3004D - Kyiv
DK2OM	7035,0	1441	22	05	INS		USB LSB			Indonesian pirates
DK2OM	7036,0	2110	27	05	RUS		PSK2A	120	2600	AT3004D – Far East Russia
DK2OM	7038,7	1617	14	05	RUS	D	A1A			Cluster beacon – Sevastopol RUS Navy – “RCV” - daily – all day
DK2OM	7038,8	---	--	05	RUS	P	A1A			Cluster beacon – 7038.780 kHz - Kaliningrad RUS Navy – “RMP”
DK2OM	7038,9	1624	14	05	RUS	S	A1A			Cluster beacon – Severomorsk

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										RUS Navy – „RIT“
DK2OM	7039,0	---	--	05	RUS	C	A1A			Cluster beacon - Moscow RUS Navy - “RIW”
DK2OM	7039,2	1615	14	05	RUS	F	A1A			Cluster beacon - Vladivostok RUS Navy - “RJS”
DK2OM	7039,3	1616	14	05	RUS	K	A1A			Cluster beacon - Petropavlovsk Kamchatskiy - RUS Navy - Pacific fleet - “RCC”
DK2OM	7039,4	1616	14	05	RUS	M	A1A			Cluster beacon – Magadan RUS Navy – „RTS“
DK2OM	7040,0	vt	dly	05	F	F6BAZ	FSK8	125	1750	ALE, “F6BAZ” – just for info
DK2OM	7040,0	ady	dly	05	I		A1A			IZ3DVV – uncoordinated and unwanted beacon
DK2OM	7040,0	1426	22	05	INS		USB LSB			Indonesian pirates
DK2OM	7040,5	vt	dly	05	HRV		FSK8	125	1750	ALE, “9A5EX” “9A0ALE” – just for info
DK2OM	7047,37	vt	vd	05	D		FSK8	125	1750	ALE, “DL0NOT” – just for info!
DK2OM	7049,5	1429	17	05	HRV G F	9A0ALE MIDFO F6BAZ	FSK8	1250	1750	Amateur ALE, just for info! daily – various times
DK2OM	7050,0	1943	07	05			LSB			music
DK2OM	7054,0	1843	23	05	FEa		FMCW		31k	Codan like ocean surface radar 2.6 sps – 7054 – 7085 kHz
DK2OM	7055,5	vt	vd	05	MEa	no ITU	FSK8	125	1750	ALE, “111” “132” “133” - Kaukasus
DK2OM	7055,8	0527	25	05	SRB		PSK8	2400	2400	MIL-188-110B – Pristina
DK2OM	7060,0	1909	12	05	RUS		PSK2A	120	2600	AT300D – Samara
DK2OM	7065,0	1845	11	05	FEa		FMCW		32k	Codan like ocean surface radar 2.6 sps – 7065 – 7097 kHz – also: 14.05.2015
DK2OM	7070,0	vt	vd	05	GEO	no ITU	FSK8	125	1750	ALE, “MV” “244” “686” “334” “204” “571” – daily active
DK2OM	7077,4	1907	16	05	RUS	D	A1A			spurious from Cluster beacon – Sevastopol RUS Navy – “RCV” on 7038.7 kHz
DK2OM	7088,8	---	---	05	S	SL0FRO	A1A			7088.830 - cw-trainee, Sweden – kHz – SLOFRO - just for info!
DK2OM	7089,8	---	--	05	TUR		PSK8	2400	2400	Link11 - SLEW – aircraft – area of Izmir
DK2OM	7091,5	---	--	05	KAZ	V	A1A			beacon “V” endless – Almaty – Kazakhstan – daily, all day
DK2OM	7092,0	vt	vd	05			FSK8	125	1750	ALE, “3014”
DK2OM	7096,0	1440	24	05	FEa		FMCW		34k	Codan like ocean surface radar 2.6 sps – 7096 – 7130 kHz
DK2OM	7099,5	vt	dly	05	HRV	9A0ZG	FSK8	125	1750	ALE, “9A0ZG” “9A5EX1P” “9A0OS” – daily - just for info!
DK2OM	7100,0	0612	22	05	UKR		PSK2A	120	2600	AT3004D – area of Vinnytsa
DK2OM	7102,0	vt	dly	05	HRV SUI D	9A0ALE	FSK8	125	1750	ALE, “9A0ALE” “9A2KS” “HB9MHB” “9A0ZG” “9A4OS” “DK0ESD” – just for info!
DK2OM	7105,0	0611	22	05	UKR		PSK2A	120	2600	AT3004D - Kyiv
DK2OM	7110,0	vt	dly	05	HRV	9A0ALE	FSK8	125	1750	ALE, “9A0ALE” – just for info
DK2OM	7110,0	vt	dly	05			FSK8	125	1750	ALE, “1101” “1112”
DK2OM	7110,5	0610	22	05	UKR		PSK2A	120	2600	AT3004D - Kyiv
DK2OM	7120,0	1700	dly	05	SOM		A3E			Radio Hargaysa – Somalia – daily – even audible in Australia and Japan
DK2OM	7120,0	0614	22	05	UKR		PSK2A	120	2600	AT3004D - Kyiv
DK2OM	7121,0	1900	12	05	CHN		PSK2 LSB QRG	60	2400	PRC 30 tone modem – LSB mode – LSB QRG - pilottone 450 Hz - China
DK2OM	7137,0	vt	dly	05	TWN	no ITU	FSK8	125	1750	LSB – ALE , “ACCENT” “ABLAZE” “ABOUND” “AGHAST” “ARTIST” “ANYWAY” “ABJECT” “ADROIT” – Taiwanese navy –

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										daily – various times - tnx for info: DL8AAM
DK2OM	7146,0	0811	24	05	RUS		PSK2A	120	2600	AT3004D - Sevastopol
DK2OM	7150,0	1427	31	05	FEa		FMCW		32k	Codan like ocean surface radar 2.6 sps – 7150 – 7182 kHz
DK2OM	7154,0	1429	22	05	CHN		PSK2 LSB	600	2400	PRC 30 tone modem – LSB mode – pilottone 450 Hz - China
DK2OM	7162,0	2045	28	05	FEa		FMCW		30k	Codan like ocean surface radar 2.6 sps – 7162 – 7192 kHz
DK2OM	7166,0	1907	12	05	CHN		PSK2 LSB QRG	60	2400	PRC 30 tone modem – LSB mode – LSB QRG - pilottone 450 Hz - China
DK2OM	7167,0	1253	30	05	FEa		A1A			encrypted CW – letters and figures
DK2OM	7180,0	2109	27	05	F	RFI	A3E		50k	Radio France International on 7205 kHz (2000 – 2100 utc) with splatters down to 7180 kHz - daily
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	7190,0	1830	dly	04	TUR		A3E			Voice of Turkey from 7205 kHz (2030 – 2130 utc)
DK2OM	7195,5	1720	dly	05	IRN	IRIB	A3E		9k	Voice of Iran from 7200.0 kHz – daily – (1720 – 1820 utc)
DK2OM	7197,0	vt	dly	05	TUR	no ITU	FSK8	125	1750	ALE, “8241” “206102” “8151” “3021” “3761” “8021” “8141” “3061” “3241” “8411” – Turkish organisations and Turkish Civil Defense - source: DL8AAM – daily, various times
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	10110,0	1420	25	05	E		USB			Spanish fishery
DK2OM	10113,0	vt	vd	05	TUN	no ITU	FSK8	125	1750	ALE, “TUD” “STAT5” “STAT154”
DK2OM	10114,0	vt	dly	05		no ITU	FSK8	125	1750	ALE, “BSF” “ZEN” “CM2OR2”
DK2OM	10114,8	0713	05	05	RUS		F1B	100	1000	CIS14 – Moscow - daily
DK2OM	10115,0	vt	vd	05		no ITU	FSK8	125	1750	ALE, “2001” “2002”
DK2OM	10116,5	vt	vd	05	AFS		F7D	54.3	2120	MHF50 – 33 tones - South African navy
DK2OM	10120,0	vt	dly	05		no ITU	FSK8	125	1750	ALE, “9066” “9067” “8001” “2001”
DK2OM	10120,0	1518	11	05	RUS		PSK2A	120	2600	AT3004D - Moscow
DK2OM	10123,0	vt	dly	05	ALG	no ITU	FSK8	125	1750	ALE, “CM3” “COF” “BSF” “CM2” “ESA”
DK2OM	10125,0	1918	24	05	E		USB			Spanish fishery – also 26.05.2015 at 2110 utc
DK2OM	10127,0	2107	26	05	AUS		FMCW		20k	Australian OTH burst radar JORN – 20 sps – 3.2 sec bursts
DK2OM	10129,0	vt	dly	05	ALG	no ITU	FSK8	125	1750	ALE, “CM1” “CTF” “772”
DK2OM	10130,0	vt	dly	05	MRC		FSK8	125	1750	Thales 3000 – West Sahara – daily - vt
DK2OM	10130,0	vt	vd	05	Af	no ITU	FSK8	125	1750	ALE, West-Africa
DK2OM	10131,0	1714	16	05	RUS		F1B	75	250	CIS-75-250 - Jekaterinburg
DK2OM	10131,3	1935	10	05	CTI		LSB			unid voice – ship area of Ivory Coast
DK2OM	10136,0	vt	dly	05	ALG	no ITU	FSK8	125	1750	ALE, “CM3” “BLD” “CNC” “TF2”
DK2OM	10136,0	2115	27	05	RUS		F1B	50	200	Chita – all day
DK2OM	10140,0	vt	vd	05	CHN ?		FSK8	125	1750	ALE, “205” “201” “LT”
DK2OM	10140,0	1355	23	05	CHN		FMCW		50k	Chinese OTH radar – 43 sps – 10140 – 10190 kHz
DK2OM	10144,0	ady	dly	05	D	DK0WCY	A1A			10143.986 kHz - DK0WCY –

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										German aurora beacon – just for info!
DK2OM	10145,5	vt	dly	05	HRV S / D F / G	9A5EX	FSK8	125	1750	ALE, “9A5EX” “SM5VRH” “DK0ESD” “F6BAZ” “MIDFO” - just for info - daily
DK2OM	13999,0	1708	14	05	RUS		FMCW		13k	OTH radar Contayner - 50 sps – Nizhny Novgorod +/- 6.5 kHz
DK2OM	14000,0	1300	dly	05	PHL		USB LSB			Philippine pirates – daily 1300 utc and later
DK2OM	14000,0	1820	21	05	NIG		USB			male persons in French – Abuja, Nigeria
DK2OM	14000,0	1835	23	05	POR?		USB			male persons in Portuguese voice
DK2OM	14001,4	---	--	05	VTN	V	A1A			unid beacon “V” – southern part of Vietnam
DK2OM	14005,0	0642	19	05	RUS		FMCW		10k	OTH burst radar Contayner - 10 sps – Nizhny Novgorod
DK2OM	14037,0	0850	09	05	FEa		FMCW		26k	OTH radar with 100 sps – 14037 – 14063 kHz
DK2OM	14052,0	1415	22	05	RUS		PSK2A	120	2600	AT3004D – traffic – 2 pilottones
DK2OM	14052,0	1412	24	05	RUS		PSK2A	120	2600	AT3004D - Moscow
DK2OM	14100,0	0817	09	05	ALG	no ITU	FSK8	125	1750	ALE, “6206” – “6204” - “6202” “6207” “6217” “MTL” “IJI” – Mauritanian border – daily, all day
DK2OM	14101,5	vt	dly	05	ALG		PSK4A	62.5	1750	Clover 2000 – 8 x 62.5 Bd – Moroccan border
DK2OM	14108,0	0710	09	05	RUS		FMCW		13k	OTH radar Contayner - 50 sps – Nizhny Novgorod
DK2OM	14108,0	0820	20	05	RUS		A1A			idents: ZRLA, IIPC, E52Y, AI3U, PF1T
DK2OM	14109,0	vt	dly	05	POR	HAM	FSK8	125	1750	ALE, “CT2IXQ” “DK0ESD” “HB9MHB” – just for info!
DK2OM	14109,0	vt	dly	05	CAN		FSK8	125	1750	ALE, “VE3GDZ” – just for info!
DK2OM	14109,0	vt	dly	05	RUS	RV3APM	FSK8	120	1750	ALE, “RV3APM” – just for info!
DK2OM	14116,0	0700	25	05	RUS		F1B	75	250	CIS-75-250 - Moscow
DK2OM	14121,0	0810	05	05	RUS		FMCW		13k	OTH radar Contayner - 50 sps – Nizhny Novgorod
DK2OM	14128,8	1309	05	05	CHN		PRC39	44.45	2350	39 tone modem - China
DK2OM	14141,0	0907	06	05	RUS		F1B	75	500	CIS-75-500 - Moscow
DK2OM	14160,0	0712	25	05	RUS		F1B	75	250	CIS-75-250 - Novosibirsk
DK2OM	14181,9	0255	15	05	RUS		OFDM	30	2750	CIS60 - Vladivostok
DK2OM	14182,0	0750	31	05	CHN		FMCW		163k	Chinese OTH radar – 10 sps – 14182 – 14345 kHz
DK2OM	14192,0	1446	10	05	RUS		F1B	50	500	CIS-50-500 - RUS navy Kaliningrad – vd, vt
DK2OM	14204,0	1100	20	05	RUS		OFDM	30	2750	CIS60 - Smolensk
DK2OM	14205,0	vt	dly	05	CHN ?	no ITU	FSK8	125	1750	ALE, “505” “822” – 60 deg. from DL - CHN ?
DK2OM	14208,0	1045	23	05	RUS		PSK2A	120	2600	AT3004D – east of Moscow
DK2OM	14221,0	2140	15	05	KGZ		F1B	50	200	Bishkek – daily
DK2OM	14225,0	0804	25	05	RUS		FMCW		10k	OTH burst radar Contayner - 10 sps – Nizhny Novgorod
DK2OM	14239,0	1648	03	05	CHN		PSK2	60	2400	PRC 30 tone modem – LSB mode
DK2OM	14242,0	1043	23	05	RUS		PSK2A	120	2600	AT3004D - Smolensk
DK2OM	14255,6	1834	03	05	CHN		PRC39	44.45	2350	39 tone modem – China – pilottone at 450 Hz – LSB mode - daily
DK2OM	14260,0	vt	dly	05	SRB	YU1BI	FSK8	125	1750	ALE, “YU1BI” – just for info!
DK2OM	14265,0	vt	vd	05	TUR	no ITU	FSK8	125	1750	ALE, “526”
DK2OM	14270,0	1757	04	05	RUS		FMCW		13k	OTH radar Contayner - 50 sps – Nizhny Novgorod
DK2OM	14276,0	1047	23	05	RUS		PSK2A	120	2600	AT3004D – west of Moscow
DK2OM	14280,0	1005	Wed.	05	UKR		A3E			female voice with encrypted msgs – figures – “SZRU” = Foreign Intelligence Service of Ukraine in Rivne – every Wednesday at 1005 utc

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	14284,7	1736	29	05	CHN		PRC39	44.45	2350	39 tone modem – China – pilottone at 450 Hz – LSB mode
DK2OM	14295,0	vt	dly	05	SRB	YU1BI	FSK8	125	1750	ALE, “YU1BI” – just for info!
DK2OM	14295,1	1440	10	05	TJK		A3E			3rd from Radio Tajik on 4765 kHz – daily, all day
DK2OM	14300,0	0616	06	05	RUS		FMCW		13k	OTH radar Contayner - 50 sps – Nizhny Novgorod
DK2OM	14300,0	1700	01	05	E		USB			Spanish fisherman and wife
DK2OM	14300,0	2007	15	05	RUS		FMCW		20k	OTH radar – 50 sps – many splatters - Kaliningrad
DK2OM	14301,7	ady	dly	05	CHN		PSK2	75	2200	PRC 16 tone modem – USB mode – pilottone 450 Hz - China – Shanghai - daily
DK2OM	14318,0	1737	19	05	RUS		FMCW		10k	OTH burst radar Contayner - 10 sps – Nizhny Novgorod
DK2OM	14320,0	1345	01	05	RUS		FMCW			spurious from OTH radar Contayner on 13165 - covering large parts of the 14 MHz-band
DK2OM	14322,0	vt	dly	05	CHN	no ITU	FSK8	125	1750	ALE, “402”
DK2OM	14322,0	2030	28	05	FEa		A1A			“XWS3” – bad CW
DK2OM	14324,0	1403	06	05			FDM			frequency hopper
DK2OM	14328,0	vt	dly	05	CHN	no ITU	FSK8	125	1750	ALE, “139” “534” “772” – West China
DK2OM	14330,0	vt	dly	05			FSK8	125	1750	ALE, “BV4”
DK2OM	14334,0	vt	vd	05	CHN	no ITU	FSK8	125	1750	ALE, “249” “255” “763”
DK2OM	14344,7	2034	28	05	CHN		PSK8	2400	2400	modified MIL-188-110A - 600 bps short – 14344.650 kHz – daily, all day
DK2OM	14346,0	vt	dly	05	HRV RUS D		FSK8	125	1750	ALE, “9A0ZG” “RX3ARZ” “DK0ESD” – just for info – various times, daily
DK2OM	14346,0	vt	dly	05	THA	HS0ZEA	A1A			HS0ZEA beacon – 14345.950 kHz - every 5 minutes – just for info!
DK2OM	18075,0	0430	13	05	IND		USB			large net – North India
DK2OM	18080,0	0630	08	05	TWN CHN		A3E			BC Sound of Hope (Taiwan) and Chinese mainland BC QRM – every morning
DK2OM	18100,0	vt	vd	05	MRC	no ITU	FSK8	125	1750	ALE, “CD” “C3” “R3” “G3” “E4” “E5” “Z2” “FORD” – daily, various times
DK2OM	18106,0	vt	vd	05	POR	CT2GOY	FSK8	125	1750	ALE, “CT2GOY” – just for info!
DK2OM	18107,0	vt	vd	05	RUS	RDL	F1B	50	200	CIS-50-50 - Moscow – idle and traffic – Russian navy – various days and times – legal operation
DK2OM	18107,0	1218	05	05			F1B	50	200	short burst
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	21000,0	---	--	--	SDN		USB			MFA Sudan – Khartoum with emba Yemen – voice traffic
DK2OM	21000,0	---	--	05	F		FMCW		20k	OTH radar – 6 sps bursts - South France
DK2OM	21000,0	0700	01	05	RUS		USB			voice scrambler Yakhta – encrypted speech – Nizhny Tagil - daily
DK2OM	21001,5	0700	01	05	RUS		F1B	100	150	voice scrambler Yakhta – F1B inband synchro – Nizhny Tagil - daily
DK2OM	21002,2	---	--	05	SDN	!0000	F1B	100	170	21002.15 kHz - Pactor 1 encrypted – MFA Sudan – Khartoum with emba Yemen – daily, vt
DK2OM	21096,0	vt	dly	05	INS	YD00XH	FSK8	125	1750	ALE, “YD00XH3” – daily, various times - just for info!
DK2OM	21100,5	0900	04	05	RUS		USB			Russian male persons from Kursk and Saratov – no calls
DK2OM	21131,0	vt	vd	05	CHN	no ITU	FSK8	125	1750	ALE, “A92” “L02” – Chinese Navy?

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	21140,9	0818	10	05	GEO		PSK8A	2400	2400	Stanag4538 – GEO MIL with AFG - daily
DK2OM	21145,0	vt	dly	05	MRC	no ITU	FSK8	125	1750	ALE, “B301”, “C3”, “IR4” “T4” “E4” “A2” “CD” “K3” “KB2” “J5” “GS4” “R3” – various times, daily
DK2OM	21145,8	vt	dly	05	I	IZ3DVW	A1A			21145.764 kHz – IZ3DVW uncoordinated and unwanted beacon
DK2OM	21190,0	---	--	05	RUS		F1B	100	1000	harmonic from 10595 kHz - Moscow - daily
DK2OM	21200,0	vt	dly	05	INS		PSK	100	1300	mailbox - Indonesia
DK2OM	21210,0	1320	22	05	CYP		FMCW		20k	OTH radar Cyprus – 25 sps
DK2OM	21226,8	0950	22	05	ETH		PSK8	2400	2400	MIL-188-110A – Addis Abeba
DK2OM	21230,0	1400	01	05	CYP		FMCW		20k	OTH radar Cyprus – 50 sps
DK2OM	21272,0	0800	26	05	RUS		PSK2A	120	2600	AT3004D - Moscow
DK2OM	21290,0	0825	26	05	CYP		FMCW		20k	OTH radar Cyprus – 50 sps
DK2OM	21318,5	0951	25	05	GUI		F1B	600	600	DPRK-FSK600 – North Korean embassy Conakry
DK2OM	21346,0	ady	dly	05	THA	HSOZEA	A1A			beacon “HSOZEA” – just for info!
DK2OM	21380,0	0747	22	05	RUS		F1B	75	800	harmonic from 10690 kHz
DK2OM	21390,0	1025	05	05	CHN		FMCW		10k	Chinese OTH radar – 83 sps – long lasting
DK2OM	21396,8	1023	04	05	FEa		PSK4	2200	2200	unid burst system
DK2OM	21400,0	---	--	05	RUS		F1B	50	2000	harmonic from 5350 kHz – area of Moscow - daily
DK2OM	21409,5	---	--	05	RUS		F1B	100	2000	F1B 100 / 2000 - CIS14 – harmonic from 10704.75 - Jekaterinburg, RUS - daily
DK2OM	21432,5	vt	dly	05	SUI	HB9	FSK8	125	1750	ALE, “HB9” – missing complete ident – just for info
DK2OM	21436,0	---	--	05	RUS		PSK2A	120	5200	AT3004D – harmonic from 10718.0 kHz - Sevastopol
DK2OM	21438,0	vt	vd	05	RUS	RCV	A1A			RIP90 de RCV - RUS Navy Sevastopol - daily
DK2OM	21440,0	1028	05	05	CHN		A3E			splatters from “Radio Free Asia” and Chinese jammer on 21455 kHz - 1000 – 1100 UTC
DK2OM	21445,0	1224	05	05	IRN		A3E			splatters from IRIB Tehran on 21455 kHz – 1150 – 1250 UTC
DK2OM	21446,0	ady	dly	05	THA	HSOZEA	A1A			HSOZEA beacon – every 5 minutes - just for info!
DK2OM	21448,2	0715	26	05	IRN		PSK4	468,7	468,7	Iran
DK2OM	21448,5	1028	25	05	LBY		F1B	600	600	DPRK-FSK600 - Tripolis
DK2OM	25000,0	vt	dly	05	FIN		A3E			time signal Helsinki – just for info – carrier on 25000 – dots on 25001 and 24999 – daily, all day
DK2OM	28000,0	vt	dly	05	CIS		F3E			28000 – 29700 numerous CIS taxi nets – mostly Russia
DK2OM	28000,0	ady	dly	05	B		A3E			Brazilian CBers – 28000 – 28315 – no change
DK2OM	28000,0	1938	15	05	B		USB			Brazilian pirates
DK2OM	28015,0	1655	12	05	E		A3E			Spanish CBers
DK2OM	28025,0	vt	vd	05	POR		F1B	51	300	F1B bursts - 28100.160 kHz - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28030,0	vt	vd	05	POR		F1B	51	340	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28045,0	1430	10	05	POR		F1B	51	280	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28050,0	1840	27	05	POR		F1B	51		F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28051,5	vt	dly	05	POR		F1B	51	300	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										buoys - daily
DK2OM	28060,0	vt	vd	05	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28065,0	1855	27	05	POR		F1B	51	300	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28066,8	---	--	05	GAB		A3E		980	carrier and dots in USB and LSB, bursts every 60 sec – carrier – Gabon – daily and all day
DK2OM	28075,0	1654	28	05	POR		F1B	51	300	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28085,0	vt	vd	05	POR		F1B	51	300	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28100,0	1037	10	05	FEa		F3E			Far East pirates
DK2OM	28101,0	vt	dly	05	POR		F1B	51	320	F1B bursts - 28100.780 kHz - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28102,1	1353	10	05	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28116,4	1433	10	05	B		A1A			beacon PY4YYF – just for info!
DK2OM	28125,0	vt	vd	05	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28146,0	vt	vd	05	ARG B		FSK8	125	1750	ALE, “LU8EX” “PY2TI” “DL1” – just for info!
DK2OM	28200,0	vt	vd	05	POR		F1B	51	300	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28275,1	1902	27	05	AF		F1B	51	300	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28312,5	vt	vd	05	POR	CT2IXQ	FSK8	125	1750	ALE. “CT2IXQ” – just for info
DK2OM	28315,0	vt	dly	05	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28435,0	----	--	05	E		F1B	81.9	140	Datawell-buoy “Waverider” – 28435.040 kHz – Costa del Sol – Malaga
DK2OM	28499,8	0848	31	05			F1B	81.9	140	Datawell-buoy “Waverider” – 28499.845 kHz – south-east
DK2OM	28600,0	1315	10	05	IRN		FMCW		50k	OTH radar Iran – 307 and 870 sps – splattering +/- 300kHz – even audible in Japan - daily
DK2OM	28980,0	---	--	05	CHN	CNR	A3E		9k	harmonic from 7245.0 kHz – China National Radio - Beijing
DK2OM	29250,0	----	--	05	E		F1B	81.9	140	Datawell-buoy “Waverider” – 29249.905 kHz – 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” – 29449.870 kHz - area of El Aaiun – Morocco - daily, all day
DK2OM	29500,0	---	--	05	G		F1B	81.9	140	Datawell-buoy “Waverider” – area of Gibraltar – daily, all day

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
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

IRTS – Ireland – EI9GSB (Lisa)

KARS – Kuwait – 9K2RR (Faisal)

MRASZ – Hungary - HA7PL (Laci)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	DETAILS
MRASZ	3523,0	1903	11	5			A3E		unstable carrier
MRASZ	3593,8	1817	12	5	RUS	P	A1A		"P" beacon, hrd on: 15, 29
MRASZ	7000,0	1901	11	5	UKR	D	A1A		„D” beacon, hrd on: 12, 15, 17, 18
MRASZ	7000,1	1103	1	5			LSB		italian language
MRASZ	7000,1	1843	29	5			USB		" 1-2-3 OK"
MRASZ	7007,5	1905	28	5			PSK2		AT3004D
MRASZ	7009,0	1832	12	5			PSK2		AT3004D
MRASZ	7012,0	1436	29	5			PSK2		AT3004D
MRASZ	7012,0	1718	31	5			PSK2		AT3004D
MRASZ	7027,5	1938	7	5			A1A		slow "V" beacon, hrd on: 29, 31
MRASZ	7038,7	1940	7	5	UKR	D	A1A		"D" beacon, hrd on: 8, 10, 12, 15, 17, 18
MRASZ	7038,9	1940	7	5	RUS	S	A1A		"S" beacon hrd on: 11, 15, 17, 18
MRASZ	7039,2	1940	7	5	RUS	C	A1A		"C" beacon hrd on: 12
MRASZ	7039,2	1940	7	5	RUS	F	A1A		"F" beacon
MRASZ	7048,0	1702	29	5			LSB		german language, ham
MRASZ	7050,0	1557	17	5			A1A		"CQ PUTIN HUILO K" hrd: 26,28,
MRASZ	7050,0	vt	dly	5			LSB		chaos, russian music, singing
MRASZ	7055,0	vt	dly	5			LSB		chaos with music, and singing
MRASZ	7077,5	1857	11	5	UKR	D	A1A		„D” beacon, hrd on: 12, 15, 17, 18
MRASZ	7120,0	1856	11	5	SOM		A3E		R. Harg. hrd on: 12, 17, 18, 21, 27, 28, 31
MRASZ	7175,0	1626	21	5			A3E		Ui BC. hrd on: 31
MRASZ	7180,0	1839	27	5			A3E		Ui BC
MRASZ	7195,0	1354	14	5			F1B	200	
MRASZ	7195,0	1649	18	5			A3E		Ui BC
MRASZ	7200,0	1627	21	5			A3E		overmodulated BC, splatter dwn 10 kHz
MRASZ	10114,0	1918	11	5			USB		Ui language
MRASZ	10114,7	0721	21	5			F1B	1000	
MRASZ	10150,0	1621	18	5			OTHR		
MRASZ	14020,0	1935	28	5			A1A		dots-dashes, deliberate disturbance
MRASZ	14030,0	1344	29	5			A1A		dots, deliberate disturbance
MRASZ	14120,0	1435	25	5			OTHR		14115-14135
MRASZ	14120,0	1329	29	5			OTHR		14120-14160
MRASZ	14135,0	1339	29	5			OTHR		
MRASZ	14140,0	0901	14	5			F1B	500	
MRASZ	14192,0	1112	10	5			F1B	200	hrd on: 11, 12, 29
MRASZ	14192,0	0904	14	5	RUS		F1B	500	
MRASZ	14221,0	2052	24	5			F1B	200	
MRASZ	14280,0	1925	28	5			OTHR		14280-14295
MRASZ	14295,1	1853	11	5	TJK		A3E		R.Tajikistan, 3rd. harm, hrd on: 17, 21, 31
MRASZ	14301,0	1836	12	5			A1A		"PIP"
MRASZ	21010,0	1852	11	5			A3E		Ui BC

OEVSU – Austria – OE3GSA (Gerd)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
oevsu	7050	1900	03	05	UNID		J3E			chaos
oevsu	18075	0435	08	05	VU	F24	J3E			group F85,F24,F55 u.a.
oevsu	18075	0433	11	05	VU	F45	USB			F45,F24

PZK – Poland – SP9BRP (Jan)

REF 1 – France – F5MIU (Francis)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	Baud	Sh/Bw	DETAILS
REF	7055	17h34	8	05			LSB		3kHz	2x BCL stations on QRM music + Russian
REF	7200	17h45	8				AM		12kHz	BCL station S9 unknow lang
REF	14.122	09h10	27				lsb			OM station transmitting broadcast France Info ?
REF	18090	08h01	19				fmcw		20kHz	OTHR S6
REF	29470	15h36	6				fmcw		20kHz	OTHR very clean S5

REF 2 – France – F5JBR (Andre)

REP – Portugal – CT4AN (Jose Francisco)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REP	3560	20.00	02	05			F1B	75	200	Unid encrypted Baudot
REP	3600	20.45	07	05	G		J3E-U			Fishermen, bad language
REP	3710	20.01	15	05	RUS		J3E-U			RUS Navy ship operations
REP	7025	22.19	23	05	B		F1B	75	240	FSK
REP	7035	18.09	12	05			J3E-L			Unid. lang
REP	7039,3	22.30	14	05	RUS	K	A1A			VOLGOGRAD, ADY, DLY
REP	7038,6	22.55	14	05	RUS	S	A1A			KALININGRAD, ADY, DLY
REP	7038,7	21.55	14	05	UKR	D	A1A			SEVASTOPOL, ADY, DLY
REP	7038,8	22.08	14	05	RUS	P	A1A			MURMANSK, ADY, DLY
REP	7060	17.31	13	05			FMCW			OTH radar
REP	7105	19.02	16	05	E		J3E-U			Fishermen with phone patch
REP	7190	22.10	04	05			AM			Spurious broadcast going down to 7190
REP	10120	17.12	26	05			J3E-U			Unid language fishery
REP	10130	19.08	11	05	MRC		J3E-U			Moroccan fishermen
REP	10147	10.53	22	05			J3E/PSK			Speech inversion and ALE
REP	10150	21.02	30	05			FMCW			OTH radar, 50sps/20kHz, down to 10140
REP	14014	22.01	09	05	MRC		J3E-U			Several Intruders discussing
REP	14141	09.03	06	05	RUS		F1B	75	500	CIS 36-50, Russia mil
REP	14162	16.01	21	05			F1B			RTTY with cypher code
REP	14190	17.05	10	05	I		J3E-U			Music
REP	14207	11.02	26	05			FMCW			OTH radar 50sps/20kHz
REP	14220	20.17	21	05			F1B			Unid F1B, idling
REP	14227	14.00	20	05			FMCW			OTHR 25kHz 50sps
REP	14300	16.27	05	05			BPSK			Beeps and BPSK bursts, all day
REP	18090	13.20	20	05			FMCW			OTH radar 20kHz
REP	21205	08.40	27	05	E		J3E-U			Fishermen
REP	21330	09.39	13	05			FMCW			OTH radar
REP	21340	13.32	05	05			FMCW			OTH radar
REP	28150	10.48	08	05	RUS		F3E			Taxis
REP	28170	15.02	04	05	F		A3E			CB inside 10m Ham Band
REP	28545	20.04	16	05	B		A3E			Brazilia illegal CB ops
REP	28580	15.40	04	05			FMCW			OTH radar
REP	28600	20.05	16	05	IRN		FMCW			Iran radar 24/7
REP	29170	11.00	29	05	RUS		F3E			Taxi female dispatcher
REP	29250	14.10	08	05			F1B	82	160	Datawell buoy, idling
REP	29250	12.21	08	05			F1B	82	140	Datawell GPS buoy
REP	29620	12.35	29	05			FMCW			OTH radar

RSGB - Great Britain – M0VRR (Vaughan)**SRAL – Finland – OH2BLU (Pekka)**

Society	kHz	ITC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
SRAL	7008,0	0330-1000	11. 26.	5		UiPTR	F1B		250	
SRAL	7008,0	1725-1850	28.	5		UiMUX	PSK2	120	2600	
SRAL	7012,0	1755	29.	5		UiMUX	PSK2	120	2600	
SRAL	7013,0	1145	14.	5		UiMUX	PSK2	120	2600	
SRAL	7015,0	0800	14.	5		UiPTR	F1B			
SRAL	7016,0	1115-1500	5.	5		UiPTR	F1B		200/250	
SRAL	7018,0	0640-1415	21.	5		UiPTR	F1B		500	
SRAL	7020,0	0900	26.	5		UiPTR	F1B		250	
SRAL	7030,0	1400-1500	5.	5		UiPTR	F1B		250	
SRAL	7038,7	h24	1.- 21.	5	RUS	D	A1A			Sevastopol, spur.+/- 38.7 kHz, last report 21 st at 0320
SRAL	7038,8			5	RUS	P	A1A			Kaliningrad, not heard
SRAL	7038,9	h24	1.- 21.	5	RUS	S	A1A			Severomorsk, last report 21 st at 0320
SRAL	7039,0			5	RUS	C	A1A			Moscow, not heard
SRAL	7047,0	0415-0600	28.	5		UiMUX	PSK2	120	2600	
SRAL	7058,0	1615-1750/	13.	5		UiPTR	F1B		200/250	
SRAL	7060,5	0900	16.	5		UiPTR	F1B		250	
SRAL	7080,0	0800	14.	5	RUS	RGR99	A1A			
SRAL	7094,0	1355	15.	5		UiMUX	PSK2	120	2600	
SRAL	7100,0	h24	9.- 28.	5		UiCarr	N0N			
SRAL	7111,0	0600-0730	28.	5		UiPTR	F1B		250	
SRAL	7114,0	0555	3.	5		UiPTR	F1B			
SRAL	7120,0	0300-0400	dly	5	SOM	R.Hargeis a	A3E			
SRAL	7120,0	1500-1900/	dly	5	SOM	R.Hargeis a	A3E			
SRAL	7142,0	1440-1500	5.	5		UiPTR	F1B		250	
SRAL	7151,0	1915	9.	5		UiMUX	PSK2	120	2600	
SRAL	7162,0	0700-1500	1. 3. 5.	5		UiPTR	F1B		250	
SRAL	7162,0	1350	27.	5		UiMUX	PSK2	120	2600	
SRAL	7169,0	0530-0600	4.	5		UiPTR	F1B		250	
SRAL	7175 A	0300-0430	*	5	ERI	VoBME2	A3E			Days: 1. – 5. 9. 10. 21. – 31. Changes fq to avoid jamming
SRAL	7175 A	1500-1835/	1. – 28.	5	ERI	VoBME	A3E			Days: 1. – 5. 9. 10. 21. – 31. Changes fq to avoid jamming
SRAL	7178,0	1530	16.	5		UiMUX	PSK2	120	2600	
SRAL	7181,62	1850-0640	24. – 29.	5		UiCarr	N0N			
SRAL	7186,0	0315-1900	3. 4.	5		UiMUX	PSK2	120	2600	
SRAL	7192,0	0240-1920	9.	5		UiMUX	PSK2	120	2600	
SRAL	7198,0	1630-1700	27.	5		UiMUX	PSK2	120	2600	

Society	kHz	ITC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
SRAL	7200,0	/1720-1820/	dly	5	IRN	IRIB	A3E			German PX
SRAL	7200,0	/2220-2320/	dly	5	IRN	IRIB	A3E			
SRAL	7200,0	1015-1300/	dly	5	CHN	CNR1	A3E			Used as jammer
SRAL	7200,02	0300-0430	*	5	ERI	VoBME1	A3E			Days: 2. – 6. 9. 10. 21. - 28.
SRAL	7200,02	1500-1830/	*	5	ERI	VoBME1	A3E			Days: 2. – 6. 9. 10. 21. - 28.
SRAL	14000,0	0320-1920	25. – 27.	5		UiCarr	N0N			
SRAL	14008,0	0720-1140	6. 14.	5		UiCarr	N0N			
SRAL	14108,0	1000-1100	20. – 22.	5		CMP9	A1A			
SRAL	14116,0	0805-0910	12.	5	RUS	UiPTR	F1B/ N0N		250	
SRAL	14132A	0550-0700	18.	5		UiBC	A3E?			Spurious, arabic
SRAL	14140A	1655	14.	5		UiBC	A3E?			Spurious, arabic
SRAL	14141,0	0320-1110	*	5	RUS	UiPTR	F1B/ N0N			Days: 6. 23. 24. 26. 28.
SRAL	14192,0	0630-1000	*	5	RUS	UiPTR	F1B		500	Days: 8. 9. 10. 14.
SRAL	14200,0	0750-0820	20.	5		UiCarr	N0N			
SRAL	14221,0	2200-0600	dly	5		UiPTR	F1B		250	
SRAL	14242,0	0815-0920	9. 16.	5		UiMUX	PSK2	120	2600	
SRAL	14253,0	0655-1530	1. 4.	5		UiPTR	F1B		250	
SRAL	14295,2	h24	dly	5	TJK	R Tojikiston	A3E			3f 4765,07 kHz, Yangiyul TX
SRAL	14 MHz	0600-1900	*	5	RUS	29B6	FMCW			50Hz / 15 kHz, days: 1. 2. 4. 5. 9. 10. 12.-14. 18. 19. 21. 24. 26. 29. 30.
SRAL	14 MHz	0530-1800	*	5	RUS	UiOTHR	FMCW			10Hz / 15 kHz, 17 days
SRAL	18 MHz	0700-1900	*	5	CYP / TUR	UiOTHR	FMCW			25/50Hz / 20 kHz, days: 14. 15. 20. 23. 25. 27. 28. 30. 31.
SRAL	21001,5	0645-1100	1.- 6.	4	RUS	UiVocod	F1B		140	
SRAL	21 MHz	0445-1730	*	5	CYP / TUR	UiOTHR	FMCW			25/50Hz / 20 kHz, days: 1. 2. 6. 9. 12. 14. 20. 22. 26.
SRAL	21438,0	0830-1315	*	5	RUS	RCV	A1A			Days: 5.-7. 27. 30. 31.
SRAL	28 MHz	0800-1100	*	5	CYP / TUR	UiOTHR	FMCW			25/50Hz / 20 kHz, days: 6. 10. 14.
SRAL	28600A	0530-1715	*	5	IRN	UiOTHR	FMCW			307 & 870 Hz / 60 kHz – 300 kHz, days: 1.-6. 12. 16. 20. 21. 22. 24. 27. 30.
SRAL	28 MHz	1000-1215	14.	5	RUS	Taxi disp.	F3E			3 reports

USKA – Switzerland – HB9CET (Peter)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	7000.0	2258	02	05		D	A1A			Beacon ID "D", spurious daily
USKA	7000.0	2148	12	05			J3E-U			unident language (maybe spanish)
USKA	7001.5	2226	10	05			BPSK	8x62.5	1k75	Clover 2000 often
USKA	7038.7	2259	02	05	UKR	D	A1A			Beacon D Sevastopol daily
USKA	7038.9	2303	02	05	RUS	S	A1A			Beacon S Murmansk daily
USKA	7039.2	2215	10	05	RUS	F	A1A			Beacon F Vladivostok daily
USKA	7039.4	2213	10	05	RUS	M	A1A			Beacon M Magadan daily
USKA	7077.4	2300	02	05		D	A1A			Beacon ID "D" almost daily
USKA	7089.8	2147	04	05			G1D	2400	2k4	PSK-8: Link 11- SLEW often
USKA	7100.0	2151	10	10			NON			Long lasting carrier
USKA	7121.0 VFO LSB	2131	12	05			OFDM30 BPSK	60	~2k4	Burst system; spacing 75Hz preamble 4x PSK4 60Bd, spacing 600Hz; Pilottone at 450Hz often
USKA	7166.0 VFO LSB	2141	12	05			OFDM30 BPSK	60	~2k4	Burst system; spacing 75Hz preamble 4x PSK4 60Bd, spacing 600Hz; Pilottone at 450Hz
USKA	7192.5	2139	10	05			J7D	12x120	2k7	PSK-4: CIS12 = AT3104D
USKA	7200.0	1719	08	05			A3E		~10k	BC lower sideband inside 40m band
USKA	7205.0	2144	10	05		RFI	A3E			BC, splattering down to 7185!
USKA	13399.0	1729	14	05			FMOP	50 sps	~13k	OTHR, partially in 20m band
USKA	14108.0	1001	06	05			FMCW	50 sps	~13k	OTHR, affected BW ~ 24k
USKA	14141.0	0904	06	05			F1B	75	500	often
USKA	14192.0	1154	01	05			F1B	50	200	CIS 50-50 daily
USKA	14192.0	0933	09	05			F1B	50	500	CIS 50-50 daily
USKA	14207.0	0711	18	05			FMCW	50 sps	~13k	OTHR, affected BW ~ 35k
USKA	14221.0	2054	05	05			F1B	50	200	often
USKA	14242.0	0926	09	05	RSL		J7D	12x120	2k7	PSK-2: CIS12. distorted, CW ID
USKA	14278.0	0915	14	05			FMCW	?	10k	OTHR
USKA	14299.0	2246	02	05			FMCW	10 sps	10k	OTHR; (100ms = 10 sps) short sequence only
USKA	14301.7	2250	02	05			BPSK	16x75	~2k2	Burst system; 16 tones
USKA	14340.0 VFO USB	0850	06	05			PSK-8	2400		MIL 188-110A; Frame format 300, 600 bps/short, 1200bps/long
USKA	18107.0	1231	05	05			F1B	36+50	200	CIS 36-50 almost daily
USKA	21001.5	1157	01	05			F1B	100	150	Vocoder Yaktha (synchro) daily
USKA	21318.55	0948	06	05			F1B	600	600	ARQ system often
USKA	21438.0	0917	06	05		RCV	A1A			letters and figures daily
USKA	21450.0	1109	01	05			FMCW	50	20k	OTHR
USKA	28600.0	1113	01	05			?	307 sps 870 sps	app 50k	Burst system; daily

Veron 1 – Netherlands – PA2GRU (Dick)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SHIFT	DETAILS
VERON	3593,7	19.50	29	5	RUS	P	A1A		P-beacon
VERON	3594,0	19.23	13	5	RUS	P	A1A		beacon
VERON	7038,7	17.00	8	5	UKR	D	A1A		D-beacon
VERON	7038,9	17.00	8	5	RUS	S	A1A		S-beacon
VERON	7200,0	17.47	7	5	India	VOI	A3E		QRG 7198 splattering German language
VERON	10118,0	12.30	29	5		UiPTR	F1B		Ptr
VERON	14008,0	14.33	4	5	CIS	UiPTR	F1B		Carrier/Revs/Ptr
VERON	14008,0	07.19	10	5	RUS	UiPTR	F1B	250	Ptr
VERON	14026,0	15.32	13	5	RUS	UiMUX	PSK		12 MPSK AT3004-D
VERON	14097,0	12.20	1	5		UiCAR	A1A		Strong Carrier (also at 17/05 and 21/05)
VERON	14108,0	10.59	25	5	CIS	IWAP	A1A		3SFF de IWAP ZHP ZLB ZNB QYT6 k
VERON	14108,0	11.04	25	5	CIS	IWAP	A1A		3SFF de IWAP ZAK ZIV ZKB QYT6 k

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SHIFT	DETAILS
VERON	14108,0	10.22	29	5	CIS	IWAP	A1A		IWAP 011 24 29 1304 011 = 054 = 5BL
VERON	14115,0	12.11	29	5		OTHR	FMCW		radar, 20 KHZ wide
VERON	14116,0	07.40	11	5		UiPTR	F1B	250	Ptr
VERON	14185,0	09.05	2	5		OTHR	FMCW		radar, 20 KHZ wide
VERON	14192,0	08.49	4	5	CIS	UiPTR	F1B		Revs/Ptr (also at 09/05)
VERON	14192,0	09.46	12	5	RUS	UiPTR	F1B	500	Ptr
VERON	14193,5	08.28	21	5		UiMOD			Unidentified Modulation
VERON	14253,0	14.17	1	5		UiPTR	F1B		Ptr (also at 04/05)
VERON	21112,0	10.10	12	5		OTHR	FMCW		radar, 20 KHZ wide
VERON	21438,0	08.54	4	5	RUS	RCV	A1A		RIP90 de RCV QTC 464 (Nawip 034 998)
VERON	21438,0	09.03	4	5	RUS	RCV	A1A		RIP90 de RCV QTC 459 (Nawip 032 999)
VERON	21438,0	09.00	31	5	RUS	RCV	A1A		RIP90 de RCV QTC 268 (Nawip 032 1143)
VERON	21438,0	09.08	31	5	RUS	RCV	A1A		RIP90 de RCV QTC 466 (Nawip 033 1005)
VERON	21438,0	15.27	28	5	RUS	RCV	A1A		RIR96 DE RCV QYT4 QWH 10309/7837 K
VERON	21438,0	15.31	28	5	RUS	RCV	A1A		RBE86 DE RCV QTC 710 64 28 1331 710
VERON	28600,0	09.07	2	5	IRN	OTHR	FMCW		307-870 spc
VERON	28600,0	10.01	12	5	IRN	OTHR	FMCW		307-870 spc

The monitoring team of IARU Region 1

credits:

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German BNetzA Konstanz

Many thanks for your interest!

compiled and published by DK2OM

June 2015