



Monitoring System

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The monthly newsletter for Region 1

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The 27 members of the IARUMS Region 1 Monitoring Team:



Acknowledgements

ARI: DH7SA – Salvatore ++ ARSK: 5Z4NU - Ted ++ ASTRA: DL1BDF – Mustapha ++ DARC: DK2OM – Wolf ++ ERASD: SU1SA – Sayed ++ IARC: 4Z1AB – Amos ++ IRTS: EI9GSB - Lisa ++ KARS: 9K2RR – Faisal ++ MARL: 9H1M – Dominic ++ MRASZ: HA7PL - Laci ++ NARS: 5N9AYM – Yusuf ++ NRRL: LA4EU – Hans Arne ++ OEVSV: OE3GSA – Gerd ++ PZK: SP9BRP – Jan ++ RAL: OD5RI – Riri ++ REF: F5MIU – Francis ++ REP: CT4AN – Jose ROARS: A41MA - Younis ++ RSGB: M0VRR - Vaughan ++ SARL: 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. Kind words from the IARU Region 1 President

The IARU Region 1 President Don Beattie – G3BJ – told me, that our Monitoring Team in Region 1 is doing an excellent job. Many thanks for the recognition dear Don!

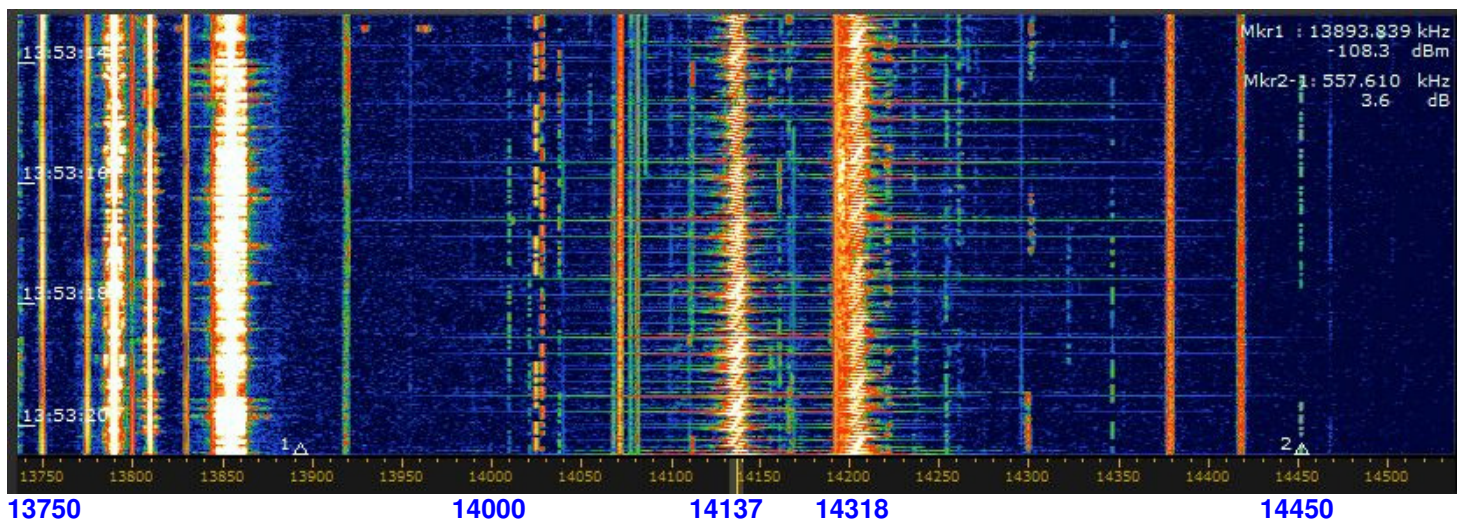
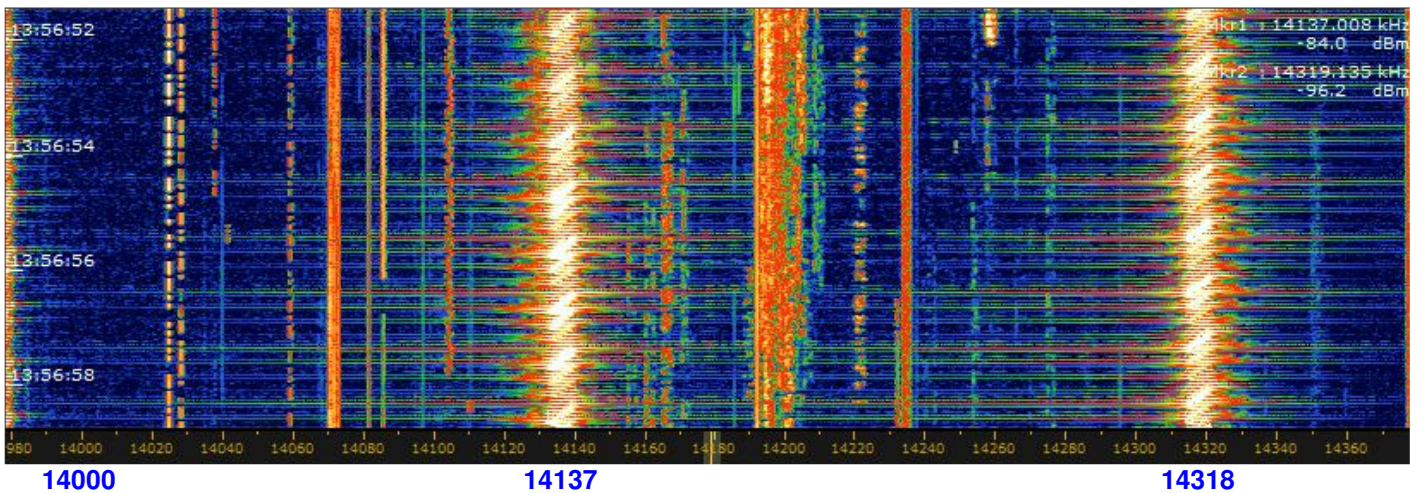


Don – G3BJ

2. Russian OTHRs

The MUF was rather high during the noons, often above 30 MHz. The F₂ layers were rather stable and often on 200 km altitude. In the early mornings and late evenings the MUF went down to 7 – 10 MHz. So we caught many intruders on our lower bands in the evenings. During the noons the Russian OTH radar “Contayner” produced QRM covering the complete 14 MHz-band from time to time

Russian OTH radars on 14137 and 14318 kHz kHz at the same time with 50 sps at 1350 utc on Jan. 18th 2015 – splattering down to 13700 and up to 14600 kHz! The main signals are 13 kHz wide.



3. BC intruders on 7 MHz - reported by DF5SX, DK3GH, Ron, Uwe

7120 kHz – Radio Hargaysa Somalia (transmitter defect) – reported by DF6SX

7185.761 kHz – Radio Myanmar - Rangoon Yegu, circa 1330-1630 UTC Januar 18.

I guess, due of antenna wavelength MATCHING limitation at Yegu site, they can't move further AWAY of frequencies of 7185 to 7200 kHz channels ...

7200.000 - Omdurman Sudan, 0215-0430, 1430-1530, 1932-2100 UTC. **Moved up to 7205!**

7200.005 - footprint IRIB Kamalabad Iran, Kazakh language sce 1518-1618 UTC (German PTT informed by DK2OM in Dec. 2014)

4. Official complaints by the German PTT (BNetzA Konstanz) in December 2014 and January 2015

7018.0 – F1B – ident “REA4” – Russian Airforce Moscow /RUS)
7038.8 – A1A (CW) – beacon “D” – Sevastopol – Crimea (RUS)
7091.5 – A1A (CW) – beacon “V” – Almaty, Kazakhstan, (KAZ)
7200.0 – A3E (BC) - Voice of Islamic Republic of Iran (IRN)
14295.1 - A3E harmonic from 4765 kHz - Tajik Radio Home Service (TJK)

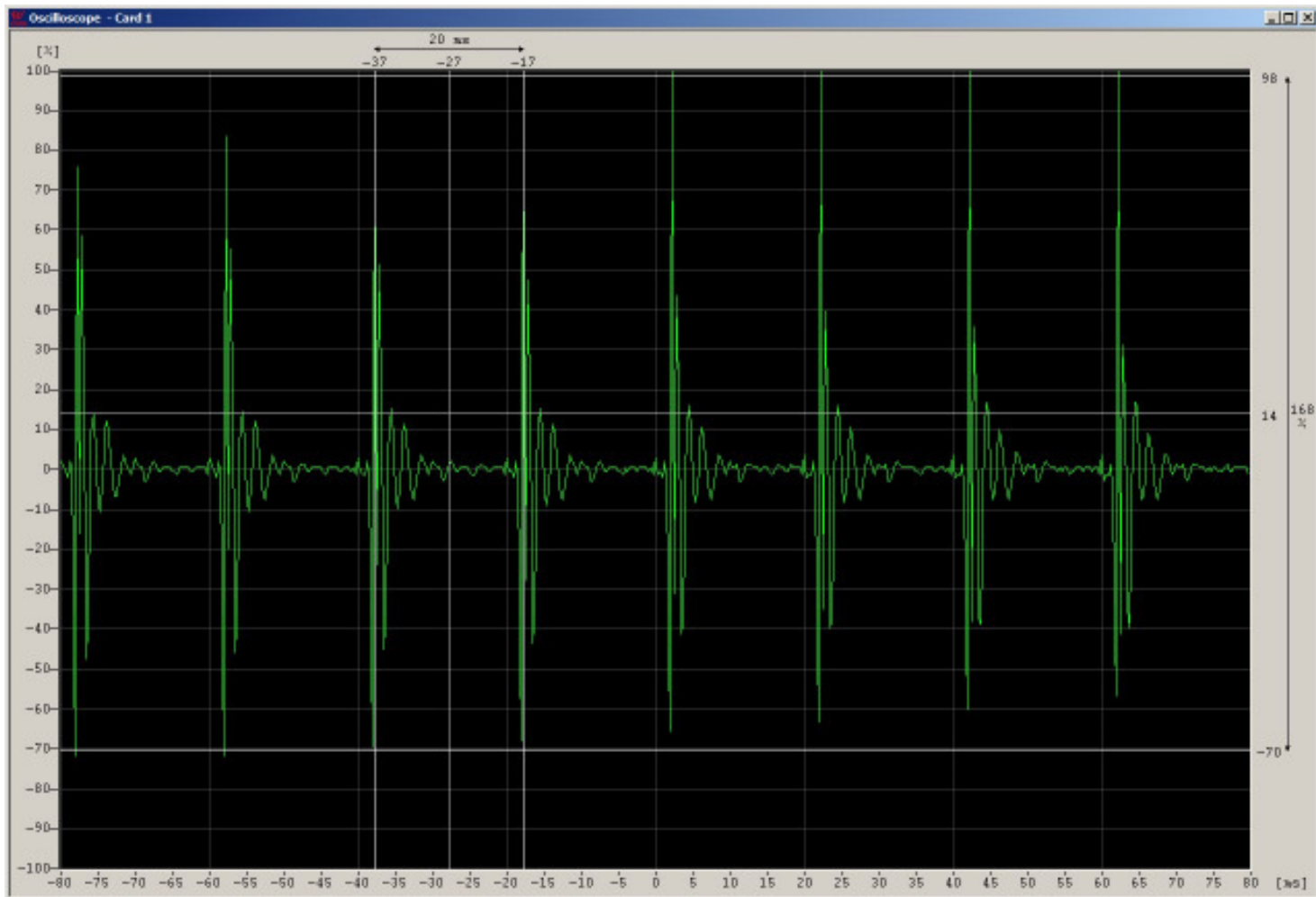
Many thanks to the German PTT (BNetzA Konstanz) for the great assistance!

5. Russian OTH radar on 7090 kHz

The Russian OTH radar “Contayner” disturbed 7090 and 7100 kHz on Jan. 21st and the next days for several hours in the evening. Parameters: 50 sps and splatters +/- 10 kHz and more. Location: Nizhny Novgorod, Russia.

The W-Code oscillogram shows an easy method to measure the sweeprate.

Calculation: 1000 msec : 20 msec = 50 sweeps/sec. Screenshot: DK2OM with W-Code (Wavecom)



-> 20 msec gap <-

6. Indonesian “Village Radio” on 7 MHz

HB9CET, Peter, found again Indonesian pirates on 7020 and 7030 kHz on USB and LSB, also known as “Indonesian Village Radio”. The pirate nets are audible in Europe every afternoons and evenings.

7. Spanish fishery – still active as usual

Spanish fishermen were daily abusing 3500, 3540, 7002, 14000 kHz on USB often in the early mornings and evenings.

8. Clandestine transmissions

10125.0 – USB – female voice spelling 5 figure groups – on Jan. 15th at 0824 utc – location: Warsaw, Poland

14280.0 – A3E (AM) – female voice spelling encrypted messages every Wednesday at 1010 utc – operated by SZRU = Foreign Intelligence Service of Ukraine at Rivne

9. 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&rlink=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 January 2015

Radio Hargeisha was not heard again on 7,120 or 7,130 kHz, and Uganda Radio on 7,195 kHz was heard only on one day. Unidentified intruders using Kiswahili (who may be military) on 7,000 kHz and others unidentified on 7,075 kHz were active as usual. There were also unidentified intruders using 7074 kHz.

E/H.M. Alleyne, 5Z4NU

ARSK National IARUMS Co-ordinator

ARSK – Kenya – 5Z4NU (Ted)

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

DG0JBJ (Mario) observed **52** OTH radars on 20 m, **79** OTH radars on 15 m and **165** OTH radars on 10 m in January 2015. A Chinese OTH radar disturbed 160 kHz of our 7 MHz-band on several evenings. 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	2055	27	01	RUS		USB LSB			14 tones – hyperbolic radio navigation system – BRAS-3/RS-10 – Kaliningrad – daily, all day
DK2OM	1852,0	2140	22	01	I	IPP	USB			Palermo Radio, weather reports
DK2OM	1855,0	2154	23	01	I	IQP	USB			San Benedetto Radio, weather reports
DK2OM	1876,0	2042	22	01	I	IQN	USB			Lampedusa Radio, weather reports
DK2OM	1880,0	2025	07	01	BEL		PSK8	2400	2400	Stanag4285 – 600 bps long – area of Brugge – Belgium - daily
DK2OM	1888,0	2153	23	01	I	IPD	USB			Civitavecchia Radio, weather reports
DK2OM	1896,5	2028	07	01	D		PSK8	2400	2400	Stanag4285 – 600 bps long – German Navy
DK2OM	1925,0	1715	13	01	I	IPL	USB			Livorno Radio, weather reports – daily, vt
DK2OM	3500,0	vt	dly	01	TUR		FSK8	120	1750	ALE, “201” - Turkish Red Crescent – legal!
DK2OM	3500,0	1807	07	01	E		USB			Spanish fishery - daily
DK2OM	3500,0	2030	16	01			USB			male persons in Arabic voice
DK2OM	3500,3	1848	14	01	CIS		A3E			CIS pirates – unstable carrier
DK2OM	3502,0	2158	23	01	CIS		A3E			CIS pirates – unstable carrier
DK2OM	3503,5	2150	20	01	G	no ITU	FSK8	125	1750	ALE – “XSS” “XPU” “XJR” –

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										British MIL Tascomm – vt, daily - legal!
DK2OM	3511,5	2027	02	01	RUS		PSK2A	120	2600	AT3004D - Sevastopol
DK2OM	3527,0	2203	23	01	RUS		F1B	50	200	Severomorsk
DK2OM	3530,0	vt	dly	01			FSK8	125	1750	ALE, “11141”
DK2OM	3532,0	2030	08	01	F		PSK4	75	5800	LINK11-CLEW on both sidebands (5800 Hz wide) – area of Brest – legal!
DK2OM	3540,0	1843	21	01	E		USB			Spanish fishery – daily, various times
DK2OM	3540,0	2058	16	01	F		USB			male persons in French voice – also 23.01.2015 at 1950 utc
DK2OM	3550,0	vt	vd	01	ALG	no ITU	FSK8	125	1750	ALE, “IU50” “IU52” “FN50”
DK2OM	3550,0	0600	dly	01	F		A3E			French amateurs not respecting bandplans - daily
DK2OM	3550,0	1600	30	01	G		USB			UK fishery
DK2OM	3553,8	1958	09	01	TUR		PSK8	2400	2400	Stanag4285 – 600 bps long - TUR MIL - Ankara – daily, all day - legal operation
DK2OM	3567,0	vt	dly	01	CHN ?	no ITU	FSK8	125	1750	ALE, “103” “106”
DK2OM	3574,5	1920	10	01	RUS		PSK2A	120	2600	AT3004D - Sevastopol
DK2OM	3576,4	ady	dly	01	I	IZ3DVW	A1A			uncoordinated beacon
DK2OM	3585,0	1720	01	01	TWN	HLL	FIC			120 rpm, IOC 576, WX-fax - daily - legal!
DK2OM	3586,5	1749	02	01	F		OFDM	44.44	1800	OFDM27 – area of Bordeaux
DK2OM	3587,0	vt	vd	01	E	no ITU	FSK8	125	1750	ALE, “TVV” “TXX” - Spanish Guardia Civil
DK2OM	3590,0	vt	dly	01	PAK	no ITU	FSK8	125	1750	ALE, “KW” “KHAIBAR” – Pakistan navy
DK2OM	3594,0	---	--	01	RUS	C	A1A			Cluster beacon - Moscow RUS Navy - “RIW”
DK2OM	3594,3	---	--	01	RUS	D	A1A			Cluster beacon – Sevastopol RUS Navy – “RCV”
DK2OM	3595,0	vt	dly	01	D		FSK8	125	1750	ALE – German customs
DK2OM	3595,0	---	--	01	RUS		USB			woman in Russian voice – often spelling figures - St. Peterburg - daily
DK2OM	3596,0	vt	dly	01	D, S, HRV		FSK8	125	1750	ALE, “DK3CW” “SA6CBK” “9A0PZ” – just for info!
DK2OM	3598,7	1717	01	01	CHN		OFDM	60	2200	OFDM30 – USB mode
DK2OM	3617,0	vt	dly	01	HRV	9A5EX	FSK8	125	1750	ALE, “9A5EX” – HAM-ALE - just for info
DK2OM	3622,5	1716	01	01	J	JMH	FIC			Tokyo Meteo – 120 rpm – IOC576 – daily, legal!!!
DK2OM	3627,0	1940	20	01	CHN		FMCW		60k	Chinese OTH radar – 43.5 sps 3627 – 3687 kHz
DK2OM	3670,0	1630	23	01	CHN		FMCW		55k	Chinese OTH radar – 43.5 sps 3670 – 3725 kHz
DK2OM	3687,0	1714	01	01	CHN		FMCW		60k	Chinese OTH radar – 43.5 sps – 3687 - 3747 kHz
DK2OM	3710,7	2022	28	01	CHN		OFDM	60	2400	OFDM30 – USB mode – pilottone 450 Hz
DK2OM	3720,0	vt	dly	01	S		FSK8	125	1750	ALE, “YU” “YT” “YV” “DZ” – Swedish MIL
DK2OM	3751,5	vt	dly	01	POL	no ITU	FSK8	125	1750	ALE, “IZ3” “MI3”
DK2OM	3756,0	1836	06	01	UKR		A3E			UKR – pip – 14 tones – hyperbolic navigation system – BRAS-2/RS-10 – 3756.022 kHz – daily – all day
DK2OM	3761,5	vt	vd	01	POL	no ITU	FSK8	125	1750	ALE, “NI9” “PL7” “AB2” – Polish MIL
DK2OM	3777,0	0848	28	01	FEa		A1A			“RIS9 de M8JF” – endless slip – rcvd via JA
DK2OM	3791,0	vt	vd	01	D	DK0ESD	FSK8	125	1750	ALE, “DK0ESD” – just for info!
DK2OM	6990,0	1749	03	01	RUS		FMCW		13k	OTH radar Contayner - 50 sps – Nizhny Novgorod –

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										splattering up
DK2OM	6998,0	vt	dly	01	GRC		FSK8	125	1750	ALE, "GEF" "EK9" – highest tone on 7000.5 kHz – Greek military
DK2OM	6999,0	1833	06	01			FSK8	125	1750	ALE, "537" "725" – signal center = 7000.625 kHz
DK2OM	6999,5	0749	11	01	RUS		PSK2	120	2600	AT3004D – submode idle – 800 Hz inband
DK2OM	7000,0	vt	dly	01	?	no ITU	FSK8	125	1750	ALE, "210" "20989" "2205" "203"
DK2OM	7000,0	1648	10	01	I		LSB			Italian pirates splattering up - daily
DK2OM	7000,0	1347	09	01	INS		USB LSB			Indonesian pirates – daily – audible in Europe in the evenings
DK2OM	7000,0	1944	02	01	ALG		USB			male persons in Arabic voice
DK2OM	7001,5	1930	02	01	ALG		PSK4A	62.5	1750	Clover 2000 – 8 x 62.5 Bd – Algeria
DK2OM	7001,6	1808	28	01	MEa		FSK2	125	300	Tadiran selcall
DK2OM	7001,8	2210	12	01	MEa		PSK4	75	2300	LINK11-CLEW – ship – Red Sea
DK2OM	7002,0	2019	18	01	E		USB			Spanish fisherman and wife
DK2OM	7003,0	1740	13	01	F		LSB			French pirates
DK2OM	7004,0	1845	08	01	CHN		FMCW		160k	Chinese OTH radar – 10 sps 7004 – 7164 kHz
DK2OM	7008,0	1707	11	01	RUS		F1B	75	250	Bryansk
DK2OM	7010,0	0544	28	01	RUS		PSK2A	120	2600	AT3004D - Moscow
DK2OM	7018,0	1710	07	01	RUS	REA4	F1B	100	1000	mostly idling – Russian airforce Moscow – ident at full hour + 40 min.
DK2OM	7023,7	1810	14	01	RUS		F1B	1200	850	St. Peterburg
DK2OM	7028,0	1828	31	01	RUS		FMCW		13k	OTH radar "Contayner" – 50 sps – Nizhny Novgorod
DK2OM	7030,0	1730	09	01	CHN		FMCW		160k	Chinese OTH radar – 10 sps 7030 – 7190 kHz
DK2OM	7030,0	1650	10	01	INS		LSB USB			Indonesian pirates talking about Sumatra
DK2OM	7038,7	1710	01	01	RUS	D	A1A			Cluster beacon – Sevastopol RUS Navy – "RCV" - daily – all day
DK2OM	7038,8	---	--	01	RUS	P	A1A			Cluster beacon – 7038.780 kHz - Kaliningrad RUS Navy – "RMP"
DK2OM	7038,9	1710	01	01	RUS	S	A1A			Cluster beacon – Severomorsk RUS Navy – „RIT“
DK2OM	7039,0	1710	01	01	RUS	C	A1A			Cluster beacon - Moscow RUS Navy - "RIW"
DK2OM	7039,2	1712	01	01	RUS	F	A1A			Cluster beacon - Vladivostok RUS Navy - "RJS"
DK2OM	7039,3	1712	01	01	RUS	K	A1A			Cluster beacon - Petropavlovsk Kamchatskiy - RUS Navy - Pacific fleet - "RCC"
DK2OM	7039,4	1713	01	01	RUS	M	A1A			Cluster beacon – Magadan RUS Navy – „RTS“
DK2OM	7040,0	vt	dly	01	F	F6BAZ	FSK8	125	1750	ALE, "F6BAZ" – just for info
DK2OM	7040,0	ady	dly	01	I		A1A			IZ3DVW – uncoordinated and unwanted beacon
DK2OM	7040,5	vt	dly	01	HRV		FSK8	125	1750	ALE, "9A5EX" "9A0ALE" – just for info
DK2OM	7045,5	1425	09	01	RUS		PSK2A	120	2600	AT3004D - Sevastopol
DK2OM	7047,37	vt	vd	01	D		FSK8	125	1750	ALE, "DL0NOT" – just for info!
DK2OM	7049,5	vt	dly	01	HRV G F	9A0ALE M1DFO F6BAZ	FSK8	1250	1750	Amateur ALE, just for info!
DK2OM	7055,5	vt	vd	01	MEa	no ITU	FSK8	125	1750	ALE, "111" "132" "133" - Caucasus

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	7064,0	1745	05	01	RUS		FMCW		13k	OTH radar "Contayner" – 50 sps – Nizhny Novgorod
DK2OM	7065,0	1815	27	01	RUS		FMCW		15k	OTH radar "Contayner" – 50 sps – Nizhny Novgorod
DK2OM	7070,0	vt	dly	01	GEO	no ITU	FSK8	125	1750	ALE, "MV" "244" "686" "334" "204" "571" – daily active
DK2OM	7088,8	---	---	01	S	SL0FRO	A1A			7088.830 - cw-trainee, Sweden – kHz – SL0FRO - just for info!
DK2OM	7089,0	0540	27	01	RUS		PSK2A	120	2600	AT3004D - Balashov
DK2OM	7089,0	0517	28	01	RUS		PSK2A	120	2600	AT3004D - Volgograd
DK2OM	7089,8	1737	13	01	TUR		PSK8	2400	2400	Link11 - SLEW – aircraft – area of Izmir
DK2OM	7090,0	1812	21	01	RUS		FMCW		10k	OTH radar Contayner - 50 sps – Nizhny Novgorod – splatters 6920 – 7260 kHz
DK2OM	7091,5	ady	dly	01	KAZ	V	A1A			beacon "V" continuos – Almaty – Kazakhstan
DK2OM	7092,0	vt	vd	01			FSK8	125	1750	ALE, "3014"
DK2OM	7098,0	0717	24	01	RUS		F1B	75	250	Kaliningrad
DK2OM	7099,5	vt	dly	01	HRV	9A0ZG	FSK8	125	1750	ALE, "9A0ZG" "9A5EX1P" "9A0OS" – daily - just for info!
DK2OM	7100,0	1754	29	01	RUS		FMCW		14k	OTH radar "Contayner" – 50 sps – Nizhny Novgorod
DK2OM	7102,0	vt	dly	01	HRV SUI D	9A0ALE	FSK8	125	1750	ALE, "9A0ALE" "9A2KS" "HB9MHB" "9A0ZG" "DK0ESD" – just for info!
DK2OM	7110,0	vt	dly	01	HRV	9A0ALE	FSK8	125	1750	ALE, "9A0ALE" – just for info
DK2OM	7110,0	vt	dly	01			FSK8	125	1750	ALE, "1101" "1112"
DK2OM	7113,0	1801	31	01	RUS		PSK2	120	2600	AT3004D – submode idle - Kaliningrad
DK2OM	7137,0	vt	dly	01	TWN	no ITU	FSK8	125	1750	LSB – ALE, "ACCENT" "ABLAZE" "ABOUND" "AGHAST" "ARTIST" "ANYWAY" "ABJECT" "ADROIT" – Taiwanese navy – daily – various times - tnx for info: DL8AAM
DK2OM	7138,0	1040	27	01	FEa		FMCW		32k	Codan like ocean surface radar 2.6 sps – 7138 – 7170 kHz
DK2OM	7141,0	2245	27	01	RUS		PSK2A	120	2600	AT3004D – Ulan Ude
DK2OM	7145,0	1857	19	01	FEa		FMCW		30k	Codan like ocean surface radar 2.5 sps – 7145 – 7175 kHz
DK2OM	7164,0	0510	28	01	RUS		PSK2A	120	2600	AT3004D – north of Samara
DK2OM	7183,0	vt	dly	01	SUI		FSK8	125	1750	ALE, "HB9MHB" – just for info!
DK2OM	7185,5	0804	29	01	D HRV		FSK8	125	1750	ALE, "9A5EX" "DK0ESD" just for info - daily
DK2OM	7196,0	1550	dly	01	IRN		A3E		9k	Voice of Iran from 7200.0 kHz
DK2OM	7197,0	vt	dly	01	TUR	no ITU	FSK8	125	1750	ALE, "8241" "206102" "8151" "3021" "3761" "8021" "8141" "3061" "3241" "8411" – Turkish Sivil Avunma = Turkish Civil Defense - source: DL8AAM – daily, various times
DK2OM	10100,8	ady	dly	01	D		F1B	50	450	Baudot - German Weatherservice – legal!
DK2OM	10110,0	vt	dly	01	SNG		FSK8	125	1750	ALE, "CN6" "68" – Singapore Navy - Changi Naval Base
DK2OM	10113,0	vt	dly	01	TUN	no ITU	FSK8	125	1750	ALE, "TUD"
DK2OM	10114,0	0758	28	01			FSK8	125	1750	ALE, "BSF" "ZEN" "CM2OR2"
DK2OM	10114,8	0740	28	01	RUS		F1B	100	1000	CIS14 – Moscow - daily
DK2OM	10115,0	vt	vd	01		no ITU	FSK8	125	1750	ALE, "2001" "2002"
DK2OM	10116,5	vt	vd	01	AFS		F7D	54.3	2120	MHF50 – 33 tones - South African navy
DK2OM	10120,0	vt	dly	01			FSK8	125	1750	ALE, "9066" "9067" "8001"

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	10120,0	1920	30	01			USB			Korean fishery
DK2OM	10121,0	1013	20	01	RUS		F1B	75	250	Moscow
DK2OM	10123,0	vt	dly	01	ALG	no ITU	FSK8	125	1750	ALE, "CM3" "COF" "BSF" "CM2" "ESA"
DK2OM	10125,0	0824	15	01	POL		USB			female voice spelling 5figure groups - Warsaw
DK2OM	10125,9	0848	15	01	RUS		F1B	50	500	Moscow
DK2OM	10126,7	1715	04	01			USB			
DK2OM	10129,0	vt	dly	01	ALG	no ITU	FSK8	125	1750	ALE, "CM1" "CTF" "772"
DK2OM	10130,0	vt	dly	01	MRC		FSK8	125	1750	Thales 3000 – West Sahara – daily - vt
DK2OM	10130,0	vt	dly	01	MLE	no ITU	FSK8	125	1750	ALE, "001" "068" – Kuala Lumpur
DK2OM	10135,0	vt	dly	01			FSK8	125	1750	ALE, ?
DK2OM	10136,0	vt	dly	01	ALG	no ITU	FSK8	125	1750	ALE, "CM3" "BLD" "CNC" "TF2"
DK2OM	10136,0	1530	07	01	RUS		F1B	50	200	Chita - daily
DK2OM	10144,0	ady	dly	01	D	DK0WCY	A1A			10143.986 kHz - DK0WCY – German aurora beacon – just for info!
DK2OM	10144,0	0735	28	01	RUS		F1B	75	500	Moscow
DK2OM	10145,5	vt	dly	01	HRV S / D F / G	9A5EX	FSK8	125	1750	ALE, "9A5EX" "SM5VRH" "DK0ESD" "F6BAZ" "M1DFO"- just for info - daily
DK2OM	13999,0	0820	29	01	RUS		PSK2	120	2600	AT3004D – modem idle and submode idle – pilotone at 14000.3 kHz - Moscow
DK2OM	14000,0	1340	17	01	PHL		USB LSB			Philippine pirates – daily 1300 utc and later
DK2OM	14000,0	1447	06	01	E		USB			Spanish fishery - daily
DK2OM	14000,0	1447	09	01	RUS		FMCW		10k	OTH burst radar 10 sps – Nizhny Novgorod
DK2OM	14000,0	1920	28	01	B		USB			Brazilian pirates
DK2OM	14000,0	1519	29	01	RUS		FMCW		10k	OTH burst radar 10 sps – Nizhny Novgorod
DK2OM	14001,5	1625	13	01	B		USB			Brazilian pirates
DK2OM	14052,0	1055	08	01	RUS		PSK2A	120	2600	Kazan
DK2OM	14060,0	vt	vd	01	ISR	no ITU	FSK8	125	1750	ALE, "AAA" - Israel
DK2OM	14086,0	1050	01	01	RUS		PSK2A	120	2600	AT3004D - Moscow
DK2OM	14100,0	1200	26	01	ALG		FSK8	125	1750	ALE, "6206" – "6204" - "6202" "6207" "MTL" "IJI" – Mauritanian border
DK2OM	14100,0	0710	31	01	RUS		FMCW		10k	OTH burst radar 10 sps – Nizhny Novgorod
DK2OM	14101,5	1155	26	01	ALG		PSK4A	62.5	1750	Clover 2000 – 8 x 62.5 Bd – Moroccan border
DK2OM	14107,8	0923	31	01	UKR		PSK8	2400	2400	MIL-188-110A – 2400 bps short (vocoder mode) – Kyiv
DK2OM	14109,0	vt	dly	01	ISR	4X1	FSK8	125	1750	ALE, "4X1" "CT2IXQ" – just for info!
DK2OM	14109,0	vt	dly	01	CAN		FSK8	125	1750	ALE, "VE3GDZ" – just for info!
DK2OM	14109,0	1601	29	01	RUS	RV3APM	FSK8	120	1750	ALE, "RV3APM" – just for info!
DK2OM	14115,0	0743	24	01	RUS		FMCW		15k	OTH radar Contayner - 50 sps – Nizhny Novgorod
DK2OM	14137,0	1350	18	01	RUS		FMCW		13k	OTH radar Contayner - 50 sps – Nizhny Novgorod – many splatters
DK2OM	14141,0	1047	08	01	RUS		F1B	75	500	Moscow
DK2OM	14192,0	1345	01	01	RUS		F1B	50	200	RUS navy Kaliningrad – vd, vt
DK2OM	14205,0	vt	dly	01	CHN ?	no ITU	FSK8	125	1750	ALE, "505" "822" – 60 deg. from DL - CHN ?
DK2OM	14221,0	0808	19	01	KGZ		F1B	50	200	Bishkek
DK2OM	14245,0	0916	21	01	RUS		FMCW		10k	OTH burst radar Contayner - 10 sps – Nizhny Novgorod
DK2OM	14260,0	vt	dly	01	SRB	YU1BI	FSK8	125	1750	ALE, "YU1BI" – just for info!
DK2OM	14265,0	1432	14	01	RUS		FMCW		13k	OTH radar Contayner - 50 sps

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										– Nizhny Novgorod
DK2OM	14265,0	vt	vd	01	TUR		FSK8	125	1750	ALE, “526”
DK2OM	14269,0	1420	21	01	RUS		FMCW		13k	OTH radar Contayner - 50 sps – Nizhny Novgorod
DK2OM	14280,0	1010	21	01	UKR		A3E			female voice with encrypted msgs – figures – “SZRU” = Foreign Intelligence Service of Ukraine at Rivne – every Wednesday
DK2OM	14294,0	0904	21	01	RUS		PSK2A	120	2600	AT3004D – Nizhny Novgorod
DK2OM	14295,0	vt	dly	01	SRB	YU1BI	FSK8	125	1750	ALE, “YU1BI” – just for info!
DK2OM	14295,1	1345	01	01	TJK		A3E			3rd from Radio Tajik on 4765 kHz – daily, all day
DK2OM	14301,7	1533	07	01	CHN		OFDM	60	2400	OFDM30 – USB mode – pilottone 450 Hz - China - daily
DK2OM	14308,0	0832	29	01	RUS		F1B	75	500	Moscow
DK2OM	14318,0	1350	18	01	RUS		FMCW		13k	OTH radar Contayner - 50 sps – Nizhny Novgorod – many splatters
DK2OM	14318,5	0721	24	01	SYR		F1B	600	600	DPRK-FSK600 – 14318.480 kHz – North Korean emba Damaskus
DK2OM	14322,0	vt	dly	01	CHN	no ITU	FSK8	125	1750	ALE, “402”
DK2OM	14326,5	1435	23	01	UKR		PSK8A	2000	2000	RFSM2000 - Kiyv
DK2OM	14326,8	1422	21	01	RUS		PSK8	2400	2400	MIL-188-110A – 600 bps short - Ufa
DK2OM	14328,0	vt	dly	01	CHN	no ITU	FSK8	125	1750	ALE, “139” “534” “772” – West China
DK2OM	14330,0	vt	dly	01			FSK8	125	1750	ALE, “BV4”
DK2OM	14342,0	1556	30	01	RUS		FMCW		13k	OTH radar Contayner - 50 sps – Nizhny Novgorod
DK2OM	14344,7	vt	dly	01	CHN		PSK8	2400	2400	modified MIL-188-110A - 600 bps short – 14344.650 kHz – daily, all day
DK2OM	14346,0	vt	dly	01	HRV RUS D		FSK8	125	1750	ALE, “9A0ZG” “RX3ARZ” “DK0ESD” – just for info – various times, daily
DK2OM	14346,0	vt	dly	01	THA	HS0ZEA	A1A			HS0ZEA beacon – 14345.950 kHz - every 5 minutes – just for info!
DK2OM	18100,0	1107	20	01	MRC	no ITU	FSK8	125	1750	ALE, “CD” “C3” “R3” “G3” “E4” “E5” “Z2” “FORD” – daily, various times
DK2OM	18107,0	---	--	01	RUS	RDL	F1B	50	200	Moscow – idle and traffic – Russian navy – various days and times – legal operation
DK2OM	18117,5	vt	vd	01	POR	CT2IXQ	FSK8	125	1750	ALE, “CT2IXQ” – just for info
DK2OM	18140,0	vt	dly	01	SRB	YU1BI	FSK8	125	2600	ALE, “YU1BI” – just for info!
DK2OM	21000,0	---	--	01	SDN		USB			MFA Sudan – Khartoum with emba Yemen – voice traffic – daily, vt
DK2OM	21000,0	1050	13	01	B		USB			Brazilian pirates – Rio de Janeiro with North Brazil
DK2OM	21000,0	1030	02	01	TUR		FMCW		20k	OTH radar NW-Turkey – 50 sps
DK2OM	21000,0	1418	29	01	VTN		USB			male persons – South Vietnam
DK2OM	21002,1	---	--	01	SDN	!0000	F1B	100	170	21002.15 kHz - Pactor 1 encrypted – MFA Sudan – Khartoum with emba Yemen – daily, vt
DK2OM	21096,0	vt	dly	01	INS	YD00XH	FSK8	125	1750	ALE, “YD00XH3” – daily, various times - just for info!
DK2OM	21131,0	vt	vd	01	CHN	no ITU	FSK8	125	1750	ALE, “A92” “L02” – Chinese Navy?
DK2OM	21145,0	dly	vt	01	MRC	no ITU	FSK8	125	1750	ALE, “B301”, “C3”, “IR4” “T4” “E4” “A2” “CD” “K3” “KB2” “J5” “GS4” “R3” – various times, daily

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	21145,8	vt	dly	01	I	IZ3DVW	A1A			21145.764 kHz – IZ3DVW uncoordinated and unwanted beacon
DK2OM	21190,0	---	--	01	RUS		F1B	100	1000	harmonic from 10595 kHz - Moscow - daily
DK2OM	21215,0	0935	06	01	AUS		FMCW		10k	Australian OTH burst radar
DK2OM	21346,0	ady	dly	01	THA	HS0ZEA	A1A			beacon "HS0ZEA" – just for info!
DK2OM	21400,0	---	--	01	RUS		F1B	50	2000	harmonic from 5350 kHz – area of Moscow - daily
DK2OM	21409,5	0757	29	01	RUS		F1B	100	2000	F1B 100 / 2000 - CIS14 – harmonic from 10704.75 - Jekaterinburg, RUS - daily
DK2OM	21432,5	1102	29	01	SUI	HB9	FSK8	125	1750	ALE, "HB9" – missing complete ident – just for info
DK2OM	21436,0	---	--	01	RUS		PSK2A	120	5200	AT3004D – harmonic from 10718.0 kHz - Sevastopol
DK2OM	21438,0	1116	07	01	RUS	RCV	A1A			RIP90 de RCV - RUS Navy Sevastopol - daily
DK2OM	21440,0	0900	16	01	IRN	IRIB	A3E			spurious from 21510.0 "Voice of Iran" – also on 21370 kHz
DK2OM	21446,0	ady	dly	01	THA	HS0ZEA	A1A			HS0ZEA beacon – every 5 minutes - just for info!
DK2OM	25000,0	0846	16	01	FIN		A3E			time signal Helsinki – just for info – carrier on 25000 – dots on 25001 and 24999 – daily, all day
DK2OM	28000,0	vt	dly	01	CIS		F3E			28000 – 29700 numerous CIS taxi nets – mostly Russia
DK2OM	28000,0	ady	dly	01	B		A3E			Brazilian CBers – 28000 – 28315 – no change
DK2OM	28025,0	vt	dly	01	POR		F1B	51	300	F1B bursts - 28100.160 kHz - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28030,0	vt	dly	01	POR		F1B	51	340	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28045,0	1031	16	01	POR		F1B	51	280	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28050,0	vt	dly	01	POR		F1B	51		F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28051,5	vt	dly	01	POR		F1B	51	300	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28055,0	1052	25	01	IRN		FMCW		50k	OTH radar Iran – 307 and 870 sps – burst mode - splattering +/- 400kHz
DK2OM	28065,0	vt	dly	01	POR		F1B	51	300	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28066,8	---	--	01	GAB		A3E		980	carrier and dots in USB and LSB, bursts every 60 sec – carrier – Gabon – daily and all day
DK2OM	28085,0	vt	vd	01	POR		F1B	51	300	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28101,0	1416	10	01	POR		F1B	51	320	F1B bursts - 28100.780 kHz - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28102,1	vt	vd	01	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28125,0	1345	04	01	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										buoys - daily
DK2OM	28130,0	0910	11	01	IRN		FMCW		50k	OTH radar Iran – 307 and 870 sps – splattering +/- 400kHz
DK2OM	28132,0	0815	10	01	IRN		FMCW		50k	OTH radar Iran – 307 and 870 sps – splattering +/- 400kHz
DK2OM	28146,0	vt	vd	01	ARG B		FSK8	125	1750	ALE, “LU8EX” “PY2TI” “DL1” – just for info!
DK2OM	28200,0	vt	vd	01	POR		F1B	51	300	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28200,0	1406	31	01	POR		USB			Portuguese pirates
DK2OM	28235,0	0913	21	01	E		A3E			Spanish CBers
DK2OM	28275,1	vt	vd	01	AF		F1B	51	300	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28312,5	1148	24	01	POR	CT2IXQ	FSK8	125	1750	ALE. “CT2IXQ” – just for info
DK2OM	28315,0	vt	dly	01	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28435,0	----	--	01	E		F1B	81.9	140	Datawell-buoy “Waverider” – 28435.040 kHz – Costa del Sol – Malaga
DK2OM	28499,9	1040	21	01			F1B	81.9	140	Datawell-buoy “Waverider” – 29524.990 kHz – south-east
DK2OM	28600,0	1100	01	01	IRN		FMCW		50k	OTH radar Iran – 307 and 870 sps – splattering +/- 300kHz – also audible in USA east-coast, Chile and Australia
DK2OM	28980,0	0925	30	01	?		A3E			unknown BC harmonic
DK2OM	29230,0	1100	23	01	IRN		FMCW		50k	OTH radar Iran – 307 and 870 sps
DK2OM	29250,0	----	--	01	E		F1B	81.9	140	Datawell-buoy “Waverider” – 29249.905 kHz – Fuerteventura - daily, all day
DK2OM	29375,0	----	--	01	I		F1B	81.9	140	Datawell-buoy “Waverider” – 29374.898 kHz – Gallipoli, South Italy - daily, all day
DK2OM	29387,5	---	--	01	IND		F1B	81.9	140	Datawell-buoy “Waverider” – 29387.460 kHz – Indian NW coast, close to Pakistan - daily, all day
DK2OM	29400,0	---	--	01	USA		F1B	81.9	140	Datawell-buoy “Waverider” – 29400.070 kHz - USA north-east coast – NY daily, all day
DK2OM	29450,0	---	--	01	MRC		F1B	81.9	140	Datawell-buoy “Waverider” – 29449.870 kHz - area of El Aaiun – Morocco - daily, all day
DK2OM	29500,0	---	--	01	G		F1B	81.9	140	Datawell-buoy “Waverider” – area of Gibraltar – daily, all day
DK2OM	29525,0	---	--	01	MRC		F1B	81.9	140	Datawell-buoy “Waverider” – 29524.990 kHz - Agadir - Morocco – daily, all day
DK2OM	29625,0	---	--	01	USA		F1B	81.9	140	Datawell-buoy “Waverider” – 29625.024 kHz - USA north-east coast – daily, all day
DK2OM	29640,0	0807	31	01	RUS		F1B	75	1000	harmonic from 7410.0 kHz - Kaliningrad
DK2OM	29685,5	---	--	01	I				2000	serial modem, Italian MIL Brescia – report: SWL
DK2OM	29699,8	---	--	01	I				2000	serial modem, Italian MIL Brescia - report: SWL

KARS – Kuwait – 9K2RR (Faisal)**MRASZ – Hungary - HA7PL (Laci)**

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
MRASZ	3502,3	2104	23	1			N0N			
MRASZ	3510,0	1955	24	1			A3E			ui. language
MRASZ	3512,4	1738	8	1			A3E			ui. language
MRASZ	3517,0	1740	8	1			A3E			probably serbian language and music
MRASZ	3520,0	2041	7	1			A1A			"TEST DONKES" deliberate disturbance
MRASZ	3525,0	2000	27	1			USB			ui. language
MRASZ	3540,0	2132	16	1			USB			ui. language
MRASZ	3555,0	1956	17	1			A3E			ui. language
MRASZ	3593,8	2102	7	1	UKR	D	A1A			"D" beacon
MRASZ	7000,0	1744	8	1			OTHR			almost in the full segment
MRASZ	7000,0	1636	10	1			LSB			ui. language
MRASZ	7000,0	1948	30	1			LSB			ui. language
MRASZ	7010,3	1703	24	1			A1A			dots
MRASZ	7018,0	2105	7	1			F1B		850	hrd:8,13,17,22,23,26,28,29,30
MRASZ	7030,0	1810	24	1			OTHR			
MRASZ	7038,7	vt	ady	1	UKR	D	A1A			"D" beacon
MRASZ	7038,9	1532	3	1	RUS	S	A1A			"S" beacon, hrd: 6,7,8,17,23,26,
MRASZ	7039,0	2106	23	1	RUS	C	A1A			"C" beacon
MRASZ	7039,2	2103	7	1	RUS	F	A1A			F beacon, hrd on 19,24,26,28,30
MRASZ	7050,0	1344	3	1			LSB			music
MRASZ	7050,0	1744	6	1	ITA		LSB			italian hams
MRASZ	7050,0	0905	10	1	ITA		LSB			italian hams
MRASZ	7065,0	1825	27	1			OTHR			
MRASZ	7070,0	1752	17	1			OTHR			7055-7085 kHz
MRASZ	7091,5	vt	ady	1	KAZ	V	A1A			"V" beacon
MRASZ	7105,0	1842	29	1			OTHR			7090-7120 kHz
MRASZ	7190,0	1623	23	1			USB			ui. language
MRASZ	7195,0	1725	23	1			OTHR			7085-7200 kHz
MRASZ	7200,0	1530	3	1			A3E			music, disturbance some kHz down
MRASZ	7200,0	1758	6	1			A1A			quick dots
MRASZ	10111,7	1808	24	1			USB			ui. language
MRASZ	10120,0	1735	22	1			USB			ui. language
MRASZ	10120,0	1907	28	1			USB			ui. language
MRASZ	10130,0	1848	23	1			OTHR			
MRASZ	10200,0	1624	10	1			OTHR			10140-10250 kHz
MRASZ	14000,0	1535	3	1			USB			ui. language
MRASZ	14140,0	0949	21	1			OTHR			
MRASZ	14160,0	1536	3	1			OTHR			
MRASZ	14180,0	1417	23	1			A1A			dots
MRASZ	14190,0	1521	23	1			OTHR			
MRASZ	14192,0	0836	1	1	RUS		F1B		400	hrd:3,10,16,17,18,21,
MRASZ	14197,0	0736	18	1			A1A			dashes
MRASZ	14245,0	0950	21	1			OTHR			10 kHz wide
MRASZ	14260,0	1339	23	1			OTHR			14240-14280 kHz
MRASZ	14300,0	0959	18	1			OTHR			
MRASZ	14326,5	1321	23	1			PSK8	2000		
MRASZ	21130,0	1315	17	1			OTHR			21090-21170 kHz
MRASZ	21290,0	1349	17	1			OTHR			
MRASZ	28025,0	1200	18	1			OTHR			
MRASZ	28030,0	0740	18	1			OTHR			
MRASZ	28050,0	0907	16	1	RUS		F3E			russian taxi
MRASZ	28050,0	0858	17	1			OTHR			till 28120 kHz
MRASZ	28076,0	0907	16	1			USB			ui. language

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
MRASZ	28135,0	0838	1	1	RUS		F3E			russian taxi
MRASZ	28245,0	0843	1	1	RUS		F3E			russian taxi
MRASZ	28255,0	0841	1	1	RUS		F3E			russian taxi
MRASZ	28275,0	0843	1	1	RUS		F3E			russian taxi
MRASZ	28490,0	0909	23	1			OTHR			
MRASZ	28560,0	0859	23	1			OTHR			

OEVSU – Austria – OE3GSA (Gerd)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
oevsu	7010.2	0525	14	01	unid	unid	A1A			dots - cont.tuning
oevsu	10100.8	0657	18	01	unid	unid	J3Eu			indonesian (?) group
oevsu	10105.2	0725	29	01	unid	unid	J3Eu			indonesian QTE 150
oevsu	10115.5	0705	19	01	unid	unid	A1A			groups of 5 signs
oevsu	10130.0	1705	26	01	unid	unid	FMcw			OTHR
oevsu	14027.7	1728	31	01	unid	unid	A3A			BC deep QSB

PZK – Poland – SP9BRP (Jan)

REF 1 – France – F5MIU (Francis)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	Baud	Sh Hz	DETAILS
REF	3782	1808	21	01					3kHz	6 subcarrier S8 strange
REF	7050	1730	8	01			AM			Two way coms+ music
REF	7070	1720	8	01			LSB			2 stations BC on same time (Russian ?)
REF	7075	1728	17	01			fmcw		20kHz	OTHR Mil S9+10
REF	7090	1807	21	01		Russia	fmcw		40kHz	OTHR Mil S9+30 bad spectrum Pulses at 38Hz
REF	7100	1749	29	01		Russia	fmcw		40kHz	S9+20, 12 x 120 Bd BPSK - system AT3004D - location Severomorsk - Russia
REF	7165	1736	19	01			RTTY	45	200Hz	“VAGN ? IDIOTO IDIOTO QSY” repeated every 20 sec
REF	07166	0915	8	01			?			Scrambled voice Tx usb?
REF	10120	1740	6	01			USB			Foreign language USB S5
REF	14105	0858	6	01			fmcw		10kHz	OTHR Mil S5 low cps rate
REF	14200	1144	6	01			fmcw		10kHz	OTHR Mil S6 low cps rate
REF	28050	0845	05	01			fmcw		20kHz	OTHR Mil S4
REF	28125	0845	12	01		Iran?	fmcw		100kHz	OTHR Mil S9 2 rates pulses
REF	28150	0845	9	01		Iran?	fmcw		100kHz	OTHR Mil S4 5sec pulses
REF	28200	0907	8	01			fmcw		60kHz	OTHR Mil S4 5sec pulses
REF	28200	0902	9	01			LSB			Russian trafic non OM
REF	28260	0900		01			LSB			Russian trafic non OM
REF	28270	0855	9	01			USB			Russian trafic non OM
REF	28690	0850	12	01			fmcw		20kHz	OTHR Mil S8
REF	29590	0850	05	01			fmcw		20kHz	OTHR Mil S6
REF	29600	0953	19	01			fmcw		20kHz	OTHR Mil S8

REF 2 – France – F5JBR (Andre)

REP – Portugal – CT4AN (Jose Francisco)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REP	3550	19.20	31	01			J3E-U			Unid language intruders
REP	3558	20.24	31	01	E		J3E-U			Spanish fishery
REP	3560	20.24	31	01			J3E-U			Unid language fishery
REP	3565	20.25	31	01			J3E-U			Unid language fishery
REP	3750	17.55	06	01	E		J3E-U			Spanish fisherman talking bad language. Locations estimation, near Faial Isl. Azores.
REP	3770	08.22	13	01	E		J3E-U			Fishery
REP	3790	23.13	10	01			J3E-U			Spanish (Cataluña) fishing boats chatting
REP	3792	22.52	04	01						White noise (kind of) can be spurious from AM broadcast on 7210kHz +25kHz S9
REP	7000	17.52	19	01	F, I		J3E-U			European pirates, various languages
REP	7000	10.49	27	01	E		J3E-U			Spanish intruders, Galicia
REP	7000	Dly	Dly	01			J3E			Intruders from several countries, all day
REP	7010	10.05	24	01			FMCW			OTH radar
REP	7030	18.08	03	01			FMCW			OTH radar
REP	7039,0	22.00	10	01	RUS	C	A1A			MOSCOW, ADY, DLY
REP	7038,6	22.27	10	01	RUS	S	A1A			KALININGRAD, ADY, DLY
REP	7055	17.40	27	01			FMCW			Over 7055kHz to 7075kHz BW 55uV/S9+
REP	7070	16.06	10	01			J3E-L			MUSIC JAMMING
REP	7070	01.30	23	01			J3E-L			Music
REP	7070	17.33	09	01	I		J3E L			Music jamming ongoing QSOs
REP	7115	21.30	03	01			J3E-L			Music
REP	7200	19.38	06	01			8k00 AE3GN			Broadcasting - Arab Language
REP	10100	20.14	19	01			FMCW			OTH radar 20kHz
REP	10120	21.45	09	01			FMCW			OTH radar
REP	10130	16.46	29	01	CYP		FMCW			OTH radar 50sps/20kHz
REP	10134	11.38	26	01	MRC	CN8xxx	J3E-U			Amateurs not respecting Bandplan
REP	10135	08.07	05	01	MRC		J3E-U			Fishery
REP	10140	17.01	21	01			FMCW			OTH radar
REP	10145	21.05	15	01			A3E			5 Letters groups
REP	14000	07.45	14	01			FMCW			OTH radar 40sps/20kHz
REP	14135	15.00	11	01	RUS		FMCW			OTH radar 10kHz/10 sps
REP	14141	12.16	27	01			F1B	75	500	Unid FSK encrypted
REP	14197	18.22	17	01			F1B	75	200	Unid
REP	14221	1348	26	01	E		J3E-U			DLY, now same 2 operators all the time Spanish fishermen
REP	14252	14.17	14	01			FMCW			OTHR 25kHz wide @50sps
REP	14330	15.04	12	01			FMCW			OTHR 25kHz + splatters
REP	21000	11.05	04	01	RUS		F1B	100	150	MIL
REP	21000	16.23	14	01	P	Papa	J3E-U			Papa Lisboa clg Papa Marco for radio check
REP	21001	18.23	17	01	RUS		F1B	100	150	Voice scrambler Yakhta syncro
REP	21115	20.45	21	01			J3E-U			Fishermen
REP	21288	14.50	12	01			FMCW			OTHR 25kHz
REP	21290	13.26	19	01			FMCW			OTH radar 50sps/20kHz
REP	24970	13.37	01	01			FMCW			OTH radar 50sps/20kHz
REP	28031	13.20	25	01		LC	A1A			Driftnet buoy
REP	28050	14.11	25	01			F1B	51	270	Enagal style GPS buoy
REP	28059	14.18	25	01		NTD	A1A			Driftnet buoy
REP	28100	13.07	25	01			F1B	51	270	Enagal style GPS buoy
REP	28205	14.20	06	01			FMCW			OTH radar
REP	28230	12.55	06	01	IRN		FMCW			OTH radar
REP	28271	11.31	29	01	GRC	SV6DBG	F1B	45	170	Uncoordinated beacon, wrong mode
REP	28295	15.30	16	01	B		A3E			Brazilian cb'ers
REP	28691	17.50	05	01						Blocks of 5 random length carriers
REP	29130	15.00	13	01	RUS		F3E			Russian taxi
REP	29135	15.51	13	01	RUS		F3E			Russian taxi
REP	28x- 29xx	dly	dly	01			F3E			Russian taxi dispatchers
REP	28x- 29xx	dly	dly	01			A3E			Brazilian CB'rs
REP	28x- 29xx	dly	dly	01			FMCW			OTH sea surface radars

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

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
SRAL	7008,0	0640-1415	2. 9. 30.	1		UiPTR	F1B		250	
SRAL	7010,0	1430	6.	1		UiMUX	PSK2	120	2600	
SRAL	7011,88	1225-1300/	14.	1		UiPTR	N0N			
SRAL	7018,0	1115-0530	dly	1	RUS	REA	F1B/N0N		1000	Tx-failure on 22. 23.
SRAL	7025,0	0910	13.	1		UiPTR	F1B		250	
SRAL	7030,0	1010-1045	20	1		UiPTR	F1B		250	
SRAL	7038,7	h24	dly	1	RUS	D	A1A			Sevastopol
SRAL	7038,8			1	RUS	P	A1A			Kaliningrad, not heard
SRAL	7038,9	0315-0800	*	1	RUS	S	A1A			Severomorsk, days: 1. 2. 12. 13. 17. 20. 21. 25. 26. 29. 31.
SRAL	7039,0	0735	31.	1	RUS	C	A1A			Moscow
SRAL	7045,5	1400-1500	9.	1		UiMUX	PSK2	120	2600	
SRAL	7089,0	1035-1415	20.	1		UiMUX	PSK2	120	2600	
SRAL	7098,0	0820-1040/	20. 28.	1		UiPTR	F1B		250	
SRAL	7116,75	1030-1220/	20.	1		UiPTR	F1A/N0N		250	
SRAL	7150,0	0650-0710	*	1		186	R3E-u			Fridays: 2. 9. 16. 30.
SRAL	7159,0	0840-0930	11. 19.	1		UiPTR	F1B		200	
SRAL	7160,0	0640-0830	20.	1	RUS	RMW32	A1A			MR 5BL
SRAL	7163,0	0645-0730	5.	1		UiMUX	PSK2	120	2600	
SRAL	7164,0	0645-0815	8. 13.	1		UiMUX	PSK2	120	2600	
SRAL	7167,0	1330-1452/	5.	1		UiPTR	F1B		250	
SRAL	7176,0	1330-1452/	5.	1		UiPTR	F1B		250	
SRAL	7178,0	1425	6.	1		UiMUX	PSK2	120	2600	
SRAL	7180,0	1125-2015	11.	1		UiPTR	F1B		200	
SRAL	7185,7	/1355-1500/	17.- 31.	1	MYA	Myanmar Radio	A3E			Ex 7200,1 kHz
SRAL	7186,0	0750-1445	4.	1	RUS	UiMUX	PSK2	120	2600	
SRAL	7193,0	0750-1445	*	1		UiPTR	F1B/N0N		200	Days: 4. 5. 6. 9. 10. 11. + A1 jamming
SRAL	7195,0	1900-2030	25.	1		UiBC	A3E			
SRAL	7198,0	0645-1200	*	1		UiMUX	PSK2	120	2600	Days: 2. 26. 27.
SRAL	7200,0	/1520-1620/	dly	1	IRN	IRIB	A3E			
SRAL	7200,0	0250-0400	dly	1	SDN	R Sudan	A3E			
SRAL	7200,0	1400-1520/	dly	1	SDN	R Sudan	A3E			
SRAL	7200,0	/1930-2100	dly	1	SDN	R Sudan	A3E			
SRAL	7200,1	1355-1500/	1.- 15.	1	MYA	Myanmar Radio	A3E			

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
SRAL	7 MHz	1745-0215	*	1	RUS	29B6	FMCW			50Hz / 15 kHz, days: 21. 28. 29.
SRAL	13999,0	0750-0935	17. 29.	1		UiMUX	PSK2	120	2600	Subcarrier on 14000,3 kHz
SRAL	14000,0	0630-0750	17.	1		UiPTR	F1B		200	
SRAL	14024,0	0840-1410/	16.	1		UiPTR	F1B		500	
SRAL	14036,0	1215-1250	14.	1	RUS	REA	F1B		2000	2f
SRAL	14058,0	0810-1210	27.	1		UiMUX	PSK2	120	2600	
SRAL	14086,0	1030	1.	1		UiMUX	PSK2	120	2600	
SRAL	14116,0	1010-1315	*	1		UiMUX	PSK2	120	2600	Days: 6. 16. 27.
SRAL	14141,0	0820-1420	*	1		UiPTR	F1B		500	Days: 4. 6. 8. 16. 18. 27.-30.
SRAL	14192,0	0830-1315	dly	1	RUS	UiPTR	F1B		200	
SRAL	14221,0	1410	19.	1		UiPTR	F1B		250	
SRAL	14240,0	0740-0845	16.	1		UiPTR	F1B		250	
SRAL	14242,0	1210-1227/	6. 27.	1		UiMUX	PSK2	120	2600	
SRAL	14294,0	0855	21.	1		UiMUX	PSK2	120	2600	
SRAL	14295,2	0545-1530	dly	1	TJK	R Tojikiston	A3E			3f 4765,07 kHz, Yangiyul TX
SRAL	14308,0	0640-1120	29. 30.	1		UiPTR	F1B		500	
SRAL	14344,0	1055-1150/	15.	1		UiPTR	F1B		250	
SRAL	14 MHz	0630-1400	*	1	RUS	29B6	FMCW			50Hz / 15 kHz, days: 7. 10. 11. 14. 18. 23. 24. 28.
SRAL	14 MHz	0630-1300	*	1	RUS	UiOTHR	FMCW			10Hz / 15 kHz, mostly 30 sec bursts (16 min. / cycle) days: 13. 23. 24.
SRAL	18 MHz	0855-00945	24.	1	CYP / TUR	UiOTHR	FMCW			25/50Hz / 20 kHz
SRAL	18 MHz	1200-1220	5.	1	RUS	29B6	FMCW			50Hz / 15 kHz
SRAL	21 MHz	0700-1400	*	1	CYP / TUR	UiOTHR	FMCW			25/50Hz / 20 kHz, days: 2. 6. 8. 13. 15. 17. 21. 26. 30. 31.
SRAL	21438,0	0745-1430	*	1	RUS	RCV	A1A			Days: 1. – 11. 24. 29.
SRAL	24 MHz	0900-1300	*	1	CYP / TUR	UiOTHR	FMCW			50Hz / 20 kHz, days: 4. 21. 25.
SRAL	28 MHz	0650-1215	*	1	CYP / TUR	UiOTHR	FMCW			25/50Hz / 20 kHz, days: 4. 5. 11. 12. 19. 22. 24.
SRAL	28 MHz	0745-1400	*	1	IRN	UiOTHR	FMCW			307 & 870 Hz / 60 kHz, days: 1. – 5. 10. 11. 12. 18. 27. 31.
SRAL	28 MHz	0655-1140	*	1	RUS	Taxi disp.	F3E			29 reports, days: 1. 3. 6. 7. 14. - 19. 21.

USKA – Switzerland – HB9CET (Peter)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	6999.0	0051	31	01			MFSK8	125	1750	MIL 188-141A To: 113
USKA	7000.0	2021	01	01		102	MFSK8	125	1750	MIL 188-141A
USKA	7000.0	2057	01	01		111	MFSK8	125	1750	MIL 188-141A
USKA	7000.0	2105	01	01		120	MFSK8	125	1750	MIL 188-141A
USKA	7000.0	2038	01	01		203	MFSK8	125	1750	MIL 188-141A
USKA	7000.0	1837	04	01		509	MFSK8	125	1750	MIL 188-141A

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	7000.0	1821	04	01		21093	MFSK8	125	1750	MIL 188-141A
USKA	7000.0	2337	06	01			J3E-U			unident language often
USKA	7000.0	2333	08	01			NON			long lasting carrier often
USKA	7000.0	2136	19	01		Names	J3E-U			like indonesian village radio
USKA	7000.0	2313	27	01			PSK8	2400	2k4	1800Hz single tone modem strong fading
USKA	7000.8	0054	31	01			PSK8	2400	2k4	1800Hz single tone modem
USKA	7001.5	2213	06	01			BPSM QPSM	8x62.5	2k0	Clover 2000 often 8 tones, spacing 250Hz
USKA	7006.250	1004	30	01			A1A			Jammer, fast dots only, splattering >2k
USKA	7006.5	2341	29	01			F1B	50	500	often
USKA	7010.0	2333	30	01		810414	MFSK8	125	1750	MIL 188-141A
USKA	7010.0	2335	30	01		820413	MFSK8	125	1750	MIL 188-141A
USKA	7010.0	0014	31	01		810499	MFSK8	125	1750	MIL 188-141A often
USKA	7018.0	2358	06	01		REA4	F1B	100	1000	ID in F1A daily
USKA	7020.0	1458	16	01		Names	J3E-L			Indonesian village radio often
USKA	7030.0	2336	08	01		Names	J3E-L			Indonesian village radio often
USKA	7038.7	2331	12	01	UKR	D	A1A			Beacon D Sevastopol daily
USKA	7038.9	2334	12	01	RUS	S	A1A			Beacon S Murmansk daily
USKA	7039.0	2258	02	01	RUS	C	A1A			Beacon C Moscow often
USKA	7039.2	2232	25	01	RUS	F	A1A			Beacon F Vladivostok daily
USKA	7039.4	2302	02	01	RUS	M	A1A			Beacon M Magadan daily
USKA	7050.0	1608	03	01			J3E-L		≥ 3k3	Music, voice, insults QRM often
USKA	7050.0	2245	19	01			J3E-L			Indonesian village radio
USKA	7055.0	1646	29	01			J3E-L		~ 3k	Russian voice, no ham (2 stn)
USKA	7055.0	1658	29	01			J3E-L		~ 3k	Music, English voice (2 stn)
USKA	7065.0	1726	27	01			FMCW	50 sps	app 13k	OTHR, affected BW approx 30k long lasting over hours
USKA	7070.0	1754	04	01		244	MFSK8	125	1750	MIL 188-141A often
USKA	7070.0	2045	23	01		820211	MFSK8	125	1750	MIL 188-141A
USKA	7070.0	2106	23	01		810203	MFSK8	125	1750	MIL 188-141A
USKA	7070.0	2111	23	01		820299	MFSK8	125	1750	MIL 188-141A
USKA	7070.0	2134	23	01		821102	MFSK8	125	1750	MIL 188-141A
USKA	7070.0	2137	23	01		810207	MFSK8	125	1750	MIL 188-141A
USKA	7070.0	2153	23	01		810201	MFSK8	125	1750	MIL 188-141A
USKA	7070.0	2201	23	01		810211	MFSK8	125	1750	MIL 188-141A
USKA	7070.0	2204	23	01		821199	MFSK8	125	1750	MIL 188-141A
USKA	7089.8	1727	13	01			G1D	2400	2k4	PSK-8: Link 11- SLEW often
USKA	7090.0	1754	21	01			FMCW	50 sps	~8k	OTHR, affected BW approx >30k
USKA	7091.5	2348	06	01		V	A1A			Beacon ID "V"; every 3.2s daily
USKA	7095.0	1544	25	01			FMCW	10 sps	160k	OTHR
USKA	7098.0	0826	20	01			F1B	75	250	
USKA	7098.875	0834	20	01			A1A			Jammer, fast dots only
USKA	7099.0	2003	23	01			MPSK	20x75	2k4	CIS 12 20 tone variant
USKA	7100.0	2249	25	01			FMCW	10 sps	160k	OTHR
USKA	7102.0	1817	29	01			FMCW	50 sps	app 13k	OTHR, affected BW ~ 20-25k
USKA	7110.0	1833	09	01			FMCW	10 sps	160k	OTHR
USKA	7113.0	1734	21	01			J7D	12x120	2k6	PSK-2: CIS12 – AT3004D
USKA	7120.0	1628	03	01			J3E-L			Music, Voice, QRM
USKA	7123.0	1846	29	01			FMCW	26.3sps	30k	OTHR (380ms)
USKA	7134.0	2226	22	01		BVWQT	MFSK8	125	1750	MIL 188-141A: To: BCQEN
USKA	7141.0	2218	27	01			J7D	12x120	2k7	PSK-2: CIS12 – AT3004D
USKA	7180.0	2236	25	01			J3E-L		~4-5k	Arabian music and voice
USKA	7185.762	0015	24	01	MYA		A3E		~7k	BC;Yangon/Yegu almost daily
USKA	7186.0	1536	04	01			J7D	12x120	2k7	PSK-4: CIS12 = AT3104D
USKA	7197.0	0029	27	01		8721	MFSK8	125	1750	MIL 188-141A often
USKA	7197.0	1813	29	01		304013	MFSK8	125	1750	MIL 188-141A often
USKA	7197.0	2220	03	01		311013	MFSK8	125	1750	MIL 188-141A often
USKA	7197.0	1813	29	01		312018	MFSK8	125	1750	MIL 188-141A often
USKA	7197.0	0019	27	01		318019	MFSK8	125	1750	MIL 188-141A often
USKA	7197.0	1808	29	01		327018	MFSK8	125	1750	MIL 188-141A often
USKA	7197.0	2222	03	01		332018	MFSK8	125	1750	MIL 188-141A often
USKA	7197.0	1812	29	01		341018	MFSK8	125	1750	MIL 188-141A often

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	7197.0	2230	03	01		354013	MFSK8	125	1750	MIL 188-141A often
USKA	7197.0	1807	29	01		360018	MFSK8	125	1750	MIL 188-141A often
USKA	7197.0	1811	29	01		363013	MFSK8	125	1750	MIL 188-141A often
USKA	7197.0	0018	27	01		365018	MFSK8	125	1750	MIL 188-141A often
USKA	7197.0	1809	29	01		371018	MFSK8	125	1750	MIL 188-141A often
USKA	7197.0	2221	03	01		376013	MFSK8	125	1750	MIL 188-141A often
USKA	7197.0	0025	27	01		377018	MFSK8	125	1750	MIL 188-141A often
USKA	7198.0	0918	27	01			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D
USKA	7200.0	0043	02	01	MYA		A3E		~8k	BC, asian style music daily
USKA	14000.0	1415	08	01			J3E-U			Italian, no ham content often
USKA	14000.0	1507	26	01			J3E-U			Fishery
USKA	14001.5	1504	26	01			F1B	100	200	ARQ; TOR system
USKA	14086.0	1024	01	01			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D
USKA	14137.0	1124	18	01			FMCW	50 sps	≤10k	OTHR; affected BW 15k
USKA	14141.0	1021	06	01			F1B	75	500	often
USKA	14192.0	1027	01	01			F1B	50	200	CIS 50-50 daily
USKA	14268.0	1327	21	01			FMCW	50 sps	app 13k	OTHR, affected BW approx 30k
USKA	14295.1	1018	30	01	TJK		A3E			BC: 3 rd of Radio Tajik at 4765 kHz
USKA	14318.0	1426	18	01			FMCW	50 sps	≤10k	OTHR; affected BW approx 20k
USKA	14325.0	2302	22	01		925	MFSK8	125	1750	MIL 188-141A; To: 995
USKA	14325.0	2306	22	01			PSK8		2k4	MIL 1800Hz singeltone system
USKA	14326.5	1335	23	01			PSK8	2000	2k	Bursts long intro-tone; maybe RFSM
USKA	14342.0	1613	30	01			FMCW	50 sps	app 13k	OTHR, affected BW approx 40k
USKA	14344.0	1126	15	01			F1B	75	250	
USKA	14344.65	2251	22	01			PSK-8	2400	2k4	MIL 188-110A, variant; burst-system, intro-tone, frame format mostly 600 bps/short
USKA	14346.0	1011	15	01			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D
USKA	18070.0	1501	31	01			FMCW	50 sps	20k	OTHR
USKA	18080.0	1048	02	01			FMCW	50 sps	app 15k	OTHR; affected BW ~33k
USKA	18170.0	1033	10	01			FMCW	50 sps	20k	OTHR
USKA	21000.0	1032	02	01			FMCW	50 sps	20k	OTHR, affected BW approx 30k
USKA	21000.0	0854	08	01			FMCW	50 sps	20k	OTHR
USKA	21090.0	1047	01	01			FMCW	50 sps	20k	OTHR often
USKA	21139.0 VFO USB	1136	29	01			PSK8	2k4	2k4	MIL 1800Hz singeltone system
USKA	21145.0	1454	29	01		C3	MFSK8	125	1750	MIL 188-141A often
USKA	21145.0	1131	29	01		CD	MFSK8	125	1750	MIL 188-141A often
USKA	21145.0	1602	29	01		HO	MFSK8	125	1750	MIL 188-141A often
USKA	21145.0	1419	29	01		X2	MFSK8	125	1750	MIL 188-141A To: HM often
USKA	21206.0	1022	27	01			FMCW		12k	OTHR; short emission only
USKA	21270.0	0948	13	01			FMCW	50 sps	20k	OTHR; affected BW approx 35k
USKA	21290.0	0933	16	01			FMCW	50 sps	20k	OTHR often
USKA	21295.0	1459	13	01			FMCW	4 var.	10k	OTHR, burst system; 4 different sweeprates, Intro tone; BD ~6.5s
USKA	21300.0	1036	24	01			FMCW	10 sps	160k	OTHR (100ms = 10 sps)
USKA	21350.0	1210	17	01			FMCW	50 sps	20k	OTHR; affected BW approx 35k
USKA	21410.0	1052	01	01			FMCW	50 sps	20k	OTHR, affected BW approx 35k
USKA	21438.0	0900	02	01		RCV	A1A			letters and figures daily
USKA	24986.0	1052	04	01			FMCW	50 sps	20k	OTHR, affected BW approx 30k
USKA	28010.0	1128	28	01			FMCW	50 sps	20k	OTHR; affected BW approx 30k
USKA	28130.0	1044	10	01				307 sps 870 sps	app 50k	OTHR Burst system; often affected BW sometimes >100k
USKA	28210.0	1024	24	01			FMCW	50 sps	20k	OTHR affected BW ~ 30k
USKA	28600.0	1016	01	01				307 sps 870 sps	app 50k	OTHR Burst system; almost daily affected BW sometimes >100k
USKA	28630.0	1137	27	01				307 sps 870 sps	app 50k	OTHR Burst system; almost daily affected BW sometimes >100k
USKA	28700.0	0951	24	01			FMCW	50 sps	20k	OTHR
USKA	29300.0	0941	26	01			FMCW	50 sps	20k	OTHR
USKA	29685.0	0843	20	01			FMCW	50 sps	20k	OTHR

Veron 1 – Netherlands – PA2GRU (Dick)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SHIFT	DETAILS
VERON	3608,0	18.44	2	1		UiPTR	F1B		Ptr
VERON	3700,0	23.20	3	1	RUS/U KR?		J3E-1		Music & Russian speech; no calls
VERON	7018,0	16.40	15	1	RUS	REA4	F1A		REA4 15150 99900 5F
VERON	7018,0	16.40	29	1	RUS	REA4	F1A		REA4 29150 99900 5F
VERON	7038,6	14.29	3	1		UiCar	NON		Cont. wobbling carrier
VERON	7038,7	16.30	15	1	UKR	D	A1A		D-beacon (also at 29/1 15.00)
VERON	7038,7	14.29	3	1	RUS	D	A1A		Beacon Sevastopol
VERON	7038,9	16.12	3	1	RUS	S	A1A		Beacon Severomorsk
VERON	7038,9	19.38	17	1	RUS	S	A1A		Beacon Severomorsk
VERON	7050,0	16.09	3	1	RUS/U KR?		A3E		Russian music/songs; pirate; s9
VERON	7074,0	18.10	17	1	RUS	UiRadar	FMCW	15k	OTHR "Contayner"; 50sps
VERON	7090,0	18.01	21	1	RUS	OTHR	FMCW		radar
VERON	7153,0	16.57	27	1		OTHR	FMCW		radar
VERON	7189,0	19.31	31	1					Frequency hopper
VERON	7200,0	18.45	3	1	IRN	IRIB	A3E		S9+20
VERON	7200,0	19.26	17	1	IRN	IRIB	A3E		S9+10
VERON	14024,0	16.45	26	1	RUS	UiPtr	F1B	500	Ptr
VERON	14024,0	10.18	28	1	RUS	UiPtr	F1B	500	Ptr
VERON	14116,0	10.54	6	1		UiPtr	F1B	250	Ptr
VERON	14116,0	13.00	27	1		UiPtr	F1B		Ptr
VERON	14135,0	11.47	18	1		UiRadar	FMCW	25k	OTHR; 50sps
VERON	14141,0	10.16	29	1	RUS	UiPtr	F1B	500	Ptr
VERON	14141,0	11.28	8	1		UiPTR	F1B		Ptr (also at 29/1 15.05)
VERON	14172,0	09.07	30	1		UiPTR	F1B		Ptr
VERON	14192,0	10.44	8	1	RUS	UiPtr	F1B	200	Ptr, also 9/1
VERON	14192,0	vt	vd	1	RUS	UiPtr	F1B	200	
VERON	14236,0	13.59	3	1					Frequency hopper
VERON	14272,0	11.22	31	1		OTHR	FMCW		radar, 11.23 qrt
VERON	14280,0	10.11	21	1	UKR		A3E		female voice encrypted msgs, Secret Svc
VERON	14308,0	10.18	29	1	RUS	UiPtr	F1B	500 Ptr	
VERON	14350,0	09.33	14	1	E	UiILL	J3e-U		Spanish male/female
VERON	21205,0	13.56	17	1					Frequency hopper
VERON	21245,0	10:29	4	1					Frequency hopper
VERON	21438,0	09.36	9	1	RUS	RCV	A1A		RIP90 de RCV QTC 406 Nawip 032 28
VERON	21438,0	09.36	9	1	RUS	RCV	A1A		RIP90 de RCV QTC 403 Nawarea 032 6
VERON	21438,0	13.42	9	1	RUS	RJV	A1A		XXX RJV 93439 DENSIMETR 1036 9529 k
VERON	28020,0	11.23	9	1		UiCW	A1A		dash 10 sec " AS" repeating
VERON	28030,0	11.46	5	1		OTHR	FMCW		radar
VERON	28135,0	10.15	6	1	RUS	Taxi	F3E		tfc female
VERON	28145,0	10.59	8	1	RUS	Taxi	F3E		tfc female
VERON	28155,0	10.56	28	1	RUS	Taxi	F3E		taxi tfc, female
VERON	28165,0	11.03	6	1	RUS	Taxi	F3E		tfc female
VERON	28165,0	10.32	29	1	RUS	Taxi	F3E		taxi tfc, female
VERON	28170,0	12.14	9	1		OTHR	FMCW		radar
VERON	28175,0	10.48	28	1	RUS	Taxi	F3E		taxi tfc, female
VERON	28185,0	11.13	12	1	RUS	Taxi	F3E		tfc female
VERON	28195,0	10.45	16	1	RUS	Taxi	F3E		tfc female
VERON	28235,0	10.48	8	1	RUS	Taxi	F3E		male-female
VERON	28255,0	12.18	9	1	RUS	Taxi	F3E		tfc female
VERON	28265,0	12.17	9	1	RUS	Taxi	F3E		tfc female
VERON	28265,0	10.47	28	1	RUS	Taxi	F3E		taxi tfc, female
VERON	28270,0	12.18	9	1	RUS	Taxi	F3E		tfc female
VERON	28275,0	10.24	29	1	RUS	Taxi	F3E		taxi tfc, female
VERON	28285,0	10.50	8	1	RUS	Taxi	F3E		tfc female
VERON	28345,0	10.46	13	1	RUS	Taxi	F3E		tfc female
VERON	28780,0	10.44	28	1		OTHR	FMCW		radar

The monitoring team of IARU Region 1

credits:

Wavecom Elektronik – Buelach – Switzerland

German BNetzA Konstanz

Many thanks for your interest!

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