



International Amateur Radio Union

Region 1



Monitoring System

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The monthly newsletter for Region 1

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Acknowledgements

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++ DF8FE – (Webmaster assis.) ++ DL8AAM (ALE) ++ DJ7KG (BUOYS) ++ DF5SX (BC) ++ DARC (server support) ++
++ OD5TE (Hani) ++ VE6SH – Tim (IARU President) ++ PB2T – Hans (IARU R1 President) ++ 9A5W - Nikola (EC-IARU-R1 ++
++ PTTs: German (BNetzA), BAKOM (Switzerland), OFCOM (UK) ++ Dutch AT ++ SK6AW – DX-Cluster ++ YO9RIJ - Petrica

Part 1: News and infos

Part 2: Detailed reports of the national co-ordinators

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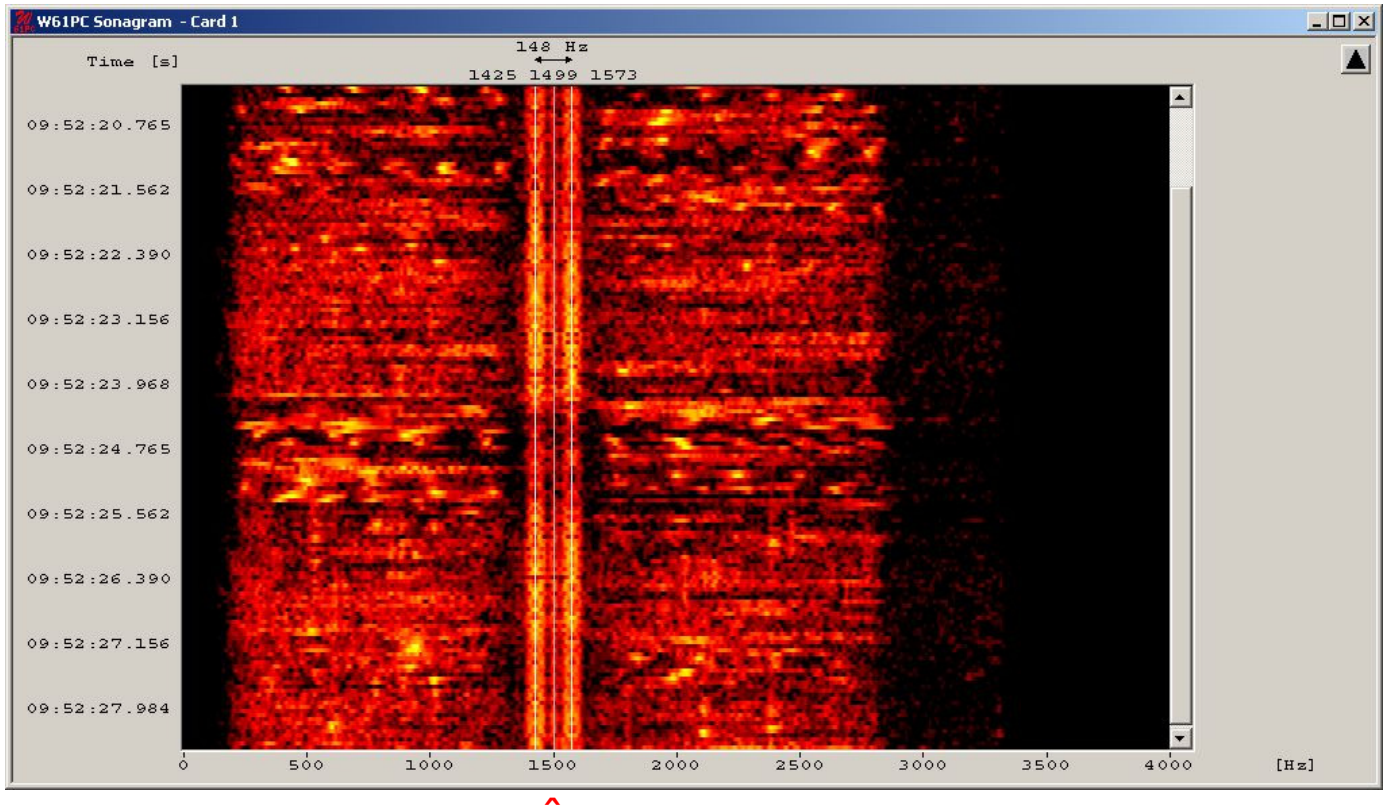
Part 1: News and Infos

1. 21000 – Russian vocoder Yakhta back again

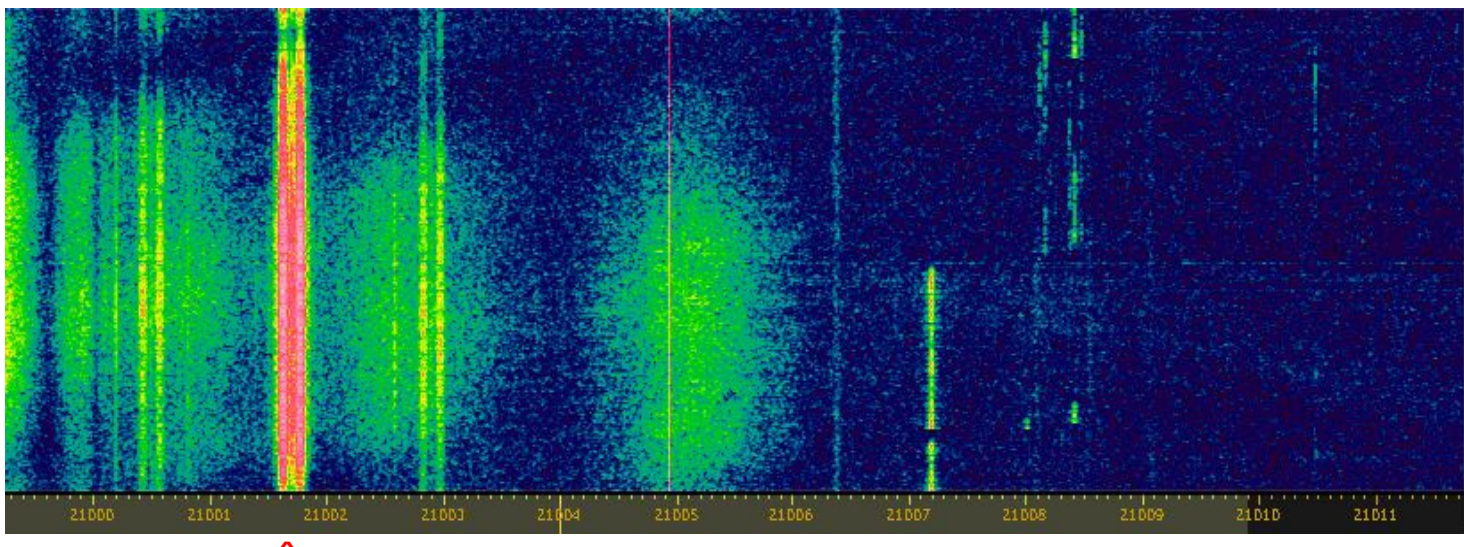
We were not surprised to meet this system again. The encrypted voice traffic was running on 21000.0 kHz on USB, the inband synchro F!B-signal (100 Bd – 150 HZ shift) was always audible and very strong. Location: Nizhny Tagil, Russia. Probably Russian military, real purpose unknown.

soundfile: <http://www.iarums-r1.org/iarums/sound/28347yakhta.wav> (recording by DK2OM)

The Wavecom sonagram is showing the encrypted voice traffic on USB and the inband synchro signal on 21001.5 kHz. (observe the red marker)



Here you can see the inband synchro signal (red marker!) and spurious emissions, same as in last winter. An earlier complaint by the German PTT has not been regarded.



2. Russian military digital traffic on exclusive amateur radio bands in September including spurious and harmonic emissions! (no radars!)

7 MHz-band: 21 QRGs – **14 MHz-band:** 19 QRGs – **21 MHz-band:** 8 QRGs

3. Iran OTH radar on 28000 - 29700 kHz – still active

The jumping Iran radar was daily transmitting between 28000 and 29000 kHz with 307 and 870 sps and terrible splatters +/- 300 kHz.

4. CT4AN - Jose Francisco - REP national MS co-ordinator reports: (also reported by CT2IWW)

Actions against illegal communication in Portugal!

It's the second time ANACOM and the Portuguese Maritime Police act over illegal communications and interferences. The Portuguese Maritime Police, a branch of the Portuguese Navy, and the Communications Authority ICP-ANACOM made a control operation which resulted in confiscations on radio equipments and heavy fines to ten operators. Besides having the equipment confiscated, the operators face fines which may reach 1250€, close to 1650USD. The newspapers detail that the fiscalization was made on 28 vessels and 29 harboured stations, both on sea, inland and in waterways.

The authorities said that the operation was based on interference complaints to legal radio systems, including Amateur Radio Service, Aeronautical Band, Maritime Service and commercial radio frequencies.

5. 3500 - 3800 kHz - Russian OTH radar as before

The Russian OTH radar at Makhachkala (Dagestan – Caspian Sea) was active on various days and audible in Central Europe in the late evenings. Parameters: 43.5 sps covering 30 – 35 kHz.

6. 7 MHz disturbed by Chinese OTH radars in Region 2 and 3

While observing the situation on 7 MHz in Region 2 and 3 I found Chinese OTH radars between 7000.0 and 7200.0 kHz. The systems were long lasting and interfered the whole Pacific Region including Japan, Australia and USA west-coast. Sometimes the radars were audible in Europe, too. Other Chinese burst radars appeared on 20 m from time to time with sweep rates of 66.66 sps, also audible in Europe.

7. 21 MHz – Australian OTH radar “JORN”

JORN = Jindalee Operational Radar Network – The Australian OTH burst radar “JORN” was daily on air between 21200 and 21300 kHz and audible in Central Europe in the morning hours.

8. 7000 and 3556 kHz (USB) – Spanish fishery with vocoder CRY2001

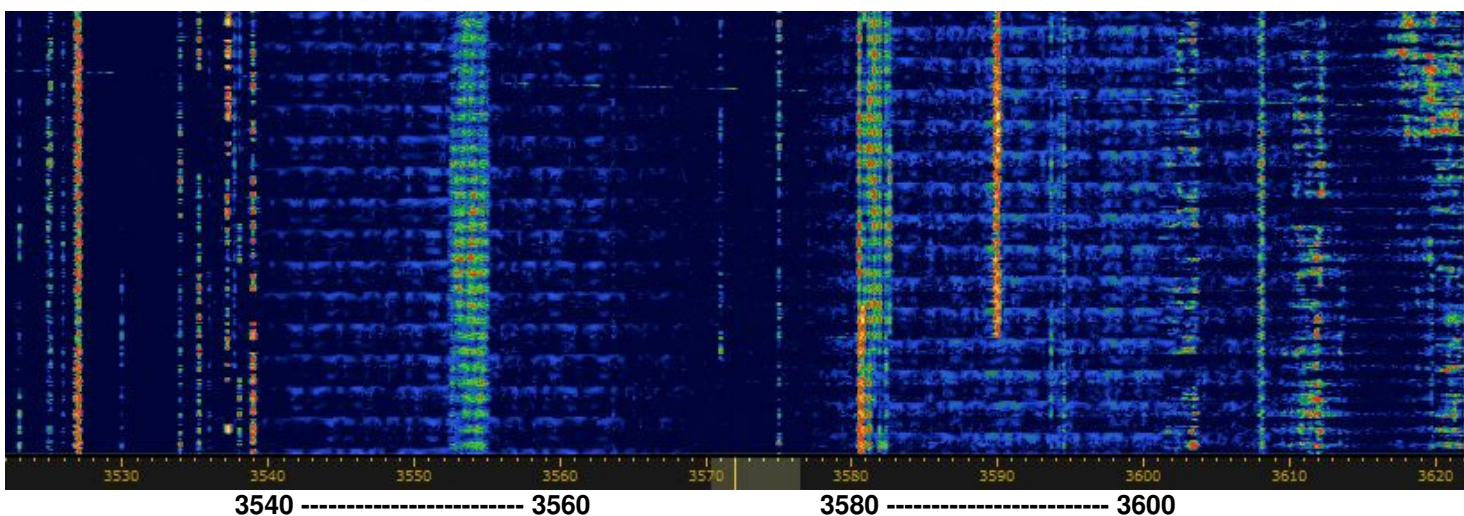
Spanish fishery tried to occupy 7000.0 kHz again. Parameters: USB with vocoder CRY2001 few days at 1900 utc. They tried 3556 kHz at 2000 utc, too.

9. Russian OTH radar Dagestan on 80 m – no change

The Russian OTH radar at Makhachkala disturbed 80 m on various days, in Central Europe audible in the evening hours with 43.5 sps and 30 kHz wide. Two systems were often transmitting at the same time. Military services in Europe were disturbed on this shared band.

Screenshot: DK2OM with Perseus on September 27th at 2000 utc.

soundfile: <http://www.iarums-r1.org/iarums/sound/3570-rus-othr.wav> (recording by DK2OM)



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://www.iaru-r3.org/ms/>

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 SEPTEMBER 2013

The main intruders detected were Radio Uganda on 7195 kHz, which continues in spite of several repeated complaints, Radio Hargeisha on 7120 kHz which continued as before except between 6th and 23rd September when it was not heard. Two unidentified stations on 7045 kHz may have been in DRC

E.H.M. Alleyne, 5Z4NU

ARSK – Kenya – 5Z4NU (Ted)

H'd by	kHz	UTC	dd	mm	ITU	Identity	MODE	Details
ARSK	7045.0	vt	24	9	?	?		Vernacular, possibly DRC?
ARSK	7120.0	vt	1 - 5, 24 - 30	9	Rep.of Somaliland	Hargeisha		Daily broadcasts.
ARSK	7195.0	0650 to mid- afternoon	dly	9	UGA	Uganda Radio	A3E	B'cast in KiSwahili, music, Luganda & English, to about 1200Z or later.

DARC 1 – Germany – DG0JBJ (Mario)

DG0JBJ (Mario) observed 7 OTH radars on 20 m, 55 OTH radars on 15 m and 6 OTH radars on 10 m (not included the numerous jumping Iran OTH radar emissions) in September 2013.

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	2151	06	09	POL		USB LSB			Polish “PIP” – 14 tones – hyperbolic radio navigation system – BRAS-3/RS-10 - Polish Baltic coast - POL Navy – legal operation (ITU footnote) – daily, all day
DK2OM	1881,4	vt	dly	09	F		QPSK	100	100	BC-PSK – radio navigation - Nantes
DK2OM	1896,5	2005	13	09	D		PSK8	2400	2400	Stanag4285 – 600 bps long – German Navy - daily
DK2OM	3500,0	2044	05	09	E		USB			Spanish fishery – every evening
DK2OM	3500,0	1900	03	09	I		USB			Italian pirates
DK2OM	3500,5	2022	07	09	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3500,5	2042	25	09	RUS		F1B	75	200	Moscow
DK2OM	3502,3	2021	07	09	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3503,5	1909	03	09	G	no ITU	FSK8	125	1750	ALE – “XSS” “XPU” “XJR” – British MIL Tascomm – vt, daily

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										- legal!
DK2OM	3505,0	2125	30	09			USB			fellows in Arabic voice
DK2OM	3505,5	2000	22	09	BLR		F1B	81	500	Minsk
DK2OM	3512,0	2000	04	09	HOL		USB			Dutch fishery
DK2OM	3517,3	1740	30	09	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3520,0	2033	25	09	E		USB			Spanish fishery
DK2OM	3520,0	1702	24	09	HOL		USB			Dutch fishery
DK2OM	3520,0	1904	03	09	I		USB			Italian pirates
DK2OM	3522,0	1714	18	09	CHN		FMCW		66k 55k	Chinese OTH radar – 43.5 sps - 3522 – 3588 kHz and 3680 – 3735 kHz
DK2OM	3526,5	1850	17	09	CIS		PSK2A	120	2600	AT3004D
DK2OM	3527,0	1915	03	09	RUS		F1B	50	200	system Frost1 – Severomorsk daily
DK2OM	3530,0	1917	17	09						frequency hopper
DK2OM	3532,0	1757	23	09	F		PSK4	75	2400	LINK11-CLEW on both sidebands (5800 Hz wide) – area of Brest – legal!
DK2OM	3535,0	0715	01	09	HOL		USB			Dutch fishery
DK2OM	3535,0	1940	27	09	RUS		FMCW		30k 30k	OTHR – 43.5 sps – 3535 – 3565 kHz and 3580 – 3610 kHz – Makhachkala – Caspian Sea
DK2OM	3540,0	2100	26	09	RUS		FMCW		30k	OTHR – 43.5 sps – 3540 – 3570 kHz and 3578 – 3608 kHz Makhachkala – Caspian Sea
DK2OM	3540,0	2200	28	09	RUS		FMCW		30k 30k	OTHR – 43.5 sps – 3540 – 3570 kHz – Makhachkala – Caspian Sea – also: 3580 – 3610 kHz
DK2OM	3544,0	2120	26	09	CIS		A3E			pirates playing music in AM, unstable carrier
DK2OM	3546,0	2027	16	09	RUS		PSK2A	120	2600	AT3004D - Severomorsk
DK2OM	3550,0	vt	vd	09	ALG		FSK8	125	1750	ALE, “IU50” “IU52” “FN50”
DK2OM	3550,0	0620	07	09	F		A3E			French amateurs not respecting the bandplans – daily (unstable carriers)
DK2OM	3550,0	1918	27	09	G		USB			UK fishery
DK2OM	3550,2	1932	27	09	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3550,6	2126	03	09	ISR		PSK4 PSK8	75 2400	2300 2400	hybrid modem – ISR Navy – PSK4 parallel and PSK8 serial
DK2OM	3553,8	ady	dly	09	TUR		PSK8	2400	2400	Stanag4285 – TUR MIL - Ankara
DK2OM	3556,0	2000	26	09	E		USB			Spanish fishery - vocoder CRY 2001
DK2OM	3565,0	2025	25	09	RUS		PSK2	120	2600	AT3004D – submode idle - Kaliningrad
DK2OM	3567,5	1930	09	09	RUS		PSK2A	120	2600	AT3004D – St. Peterburg
DK2OM	3569,8	2029	11	09	E		PSK8	2400	2400	Stanag4285 – Bay of Biscay
DK2OM	3570,0	1755	09	09			USB			Scandinavians, engine noise
DK2OM	3582,0	2008	04	09	RUS		PSK2	120	2600	AT3004D - submode idle – St. Peterburg
DK2OM	3585,0	2000	dly	09	TWN	HLL	F1C			120 rpm, IOC 576, Wxfax - daily legal!
DK2OM	3587,0	vt	vd	09	E	no ITU	FSK8	125	1750	ALE, “TVV” “TXX” - Spanish Guardia Civil
DK2OM	3595,0	vt	dly	09	D		FSK8	125	1750	ALE – German customs
DK2OM	3597,0	vt	dly	09	D		PSK8	2400	2400	Link11 SLEW
DK2OM	3617,0	vt	dly	09	HRV	9A5EX	FSK8	125	1750	ALE, “9A5EX” – HAM-ALE - just for info
DK2OM	3622,5	1800	dly	09	J	JMH	F1C			Tokyo Meteo – 120 rpm – IOC576 – daily, legal!!!
DK2OM	3632,8	1858	29	09	ISR		PSK4 PSK8	75 2400	2400 2400	hybrid modem – ISR Navy – PSK4 parallel and PSK8 serial
DK2OM	3636,0	1947	17	09	RUS		FMCW		30k	OTHR – 43.5 sps – 3636 – 3666 kHz – Makhachkala – Caspian Sea – also: 3865 – 3895 kHz
DK2OM	3640,0	1907	18	09	RUS		PSK2	120	2600	AT3004D - submode idle – area of St. Peterburg
DK2OM	3712,0	2015	08	09	F		PSK4	75	2400	LINK11-CLEW on both

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										sidebands (5800 Hz wide) – area of Marseille – legal!
DK2OM	3720,0	1940	20	09	RUS		FMCW		30k	OTHR – 43.5 sps – 3720 – 3750 kHz - Makhachkala – Caspian Sea
DK2OM	3756,0	ady	dly	09	UKR		A3E			UKR – pip – 14 tones – hyperbolic navigation system – BRAS-2/RS-10
DK2OM	3760,0	1750	30	09	RUS		FMCW		40k	OTHR – 43.5 sps – 3760 – 3800 kHz – Makhachkala – Caspian Sea
DK2OM	3761,5	vt	vd	09	POL		FSK8	125	1750	ALE, “NI9” “PL7” “AB2” – Polish MIL
DK2OM	3765,0	2150	29	09	RUS		FMCW		30k	OTHR – 43.5 sps – 3765 – 3795 kHz – Makhachkala – Caspian Sea
DK2OM	3772,0	1757	05	09			F1B	40.5	250	
DK2OM	3782,0	ady	dly	09	POR	CTP	F1B	75	850	POR Navy headquarter Lisbon – disturbed by Russian OTH radar on 18.08.2013 at 1945 utc
DK2OM	3791,0	vt	vd	09	D	DK0ESD	FSK8	125	1750	ALE, “DK0ESD” – just for info!
DK2OM	7000,0	1535	18	09			USB			French fishery
DK2OM	7000,0	2134	27	09	BFA		MFSK	40	1320	CIS36 – Burkina Faso – RUS emba?
DK2OM	7000,0	1908	04	09	CHN		MFSK		6k	Chinese multitone – 6997 – 7003 kHz – also audible in Japan and Australia
DK2OM	7000,0	1900	25	09	E		USB			Spanish fishery - vocoder CRY 2001 - daily
DK2OM	7000,0	0753	06	09	INS		USB			many Indonesian pirates – via remote Australia
DK2OM	7000,0	0330	24	09	RUS		PSK2	120	2600	AT3004D – idle - Moscow
DK2OM	7000,0	1810	18	09	UKR		A1A			Cluster beacon – Sevastopol RUS Navy – “RCV”
DK2OM	7001,8	1705	12	09	CYP		PSK8	2400	2400	Stanag4285 – 600 bps long – area of Cyprus
DK2OM	7001,0	0716	26	09	RUS		PSK2	120	2600	AT3004D - Kaliningrad
DK2OM	7006,0	1450	26	09	FEa		FMCW		32k	ocean surface radar – 7006 – 7038 kHz – 2.5 sps
DK2OM	7016,0	1932	05	09	UKR		F1B	75	250	area of Kyiv
DK2OM	7020,0	vt	vd	09			FSK8	125	1750	ALE, “CS5004A” “RS0013D” – NC3A network? – area of Kosovo
DK2OM	7020,0	1437	19	09	INS		USB LSB			Indonesian pirates – village radio - daily
DK2OM	7022,0	2011	25	09	RUS		PSK2A	120	2600	AT3004D – south-east of Voronezh
DK2OM	7030,0	1720	12	09	RUS		PSK2	120	2600	AT3004D – White Sea
DK2OM	7030,0	1730	12	09	RUS		F1B	75	250	Kirov
DK2OM	7031,0	2000	16	09	RUS		N0N			carrier with spurious emissions, RUS airforce Moscow – daily, all day
DK2OM	7035,0	0950	02	09	UKR		PSK2A	120	2600	AT3004D - Lviv
DK2OM	7038,7	1914	04	09	UKR	D	A1A			Cluster beacon – Sevastopol RUS Navy – “RCV”
DK2OM	7038,8	0615	04	09	RUS	P	A1A			Cluster beacon – Kaliningrad RUS Navy – “RMP” - defective on July 5 th
DK2OM	7038,9	0618	04	09	RUS	S	A1A			Cluster beacon – Severomorsk RUS Navy – „RIT“
DK2OM	7039,0	---	---	09	RUS	C	A1A			Cluster beacon - Moscow RUS Navy - “RIW”
DK2OM	7039,1	---	---	09	KGZ	A	A1A			Cluster beacon – Bishkek RUS Navy – “RJH25”
DK2OM	7039,2	ady	dly	09	RUS	F	A1A			Cluster beacon - Vladivostok RUS Navy - “RJS”
DK2OM	7039,3	ady	dly	09	RUS	K	A1A			Cluster beacon - Petropavlovsk Kamchatskiy - RUS Navy -

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										Pacific fleet - “RCC”
DK2OM	7039,4	ady	dly	09	RUS	M	A1A			Cluster beacon – Magadan RUS Navy – „RTS“
DK2OM	7039,95	ady	dly	09	I	IZ3DVW	A1A			IZ3DVW – uncoordinated beacon, daily, all day
DK2OM	7040,0	vt	dly	09	F	F6BAZ	FSK8	125	1750	ALE, “F6BAZ” – just for info
DK2OM	7040,5	vt	dly	09	HRV		FSK8	125	1750	ALE, “9A5EX” “9A0ALE” – just for info
DK2OM	7044,0	1458	22	09	RUS		F1B	50	250	west of Moscow
DK2OM	7047,0	2139	09	09	UKR		PSK2	120	2600	AT3004D – submode idle - Sevastopol
DK2OM	7049,0	0950	15	09	RUS		F1B	75	200	Kaliningrad
DK2OM	7049,5	vt	dly	09	HRV	9A0ALE	FSK8	1250	1750	Amateur ALE, just for info!
DK2OM	7054,0	---	---	09	RUS		F1B	50	200	CIS50-50 - RUS Navy Moscow – not active
DK2OM	7055,5	vt	vd	09	GEO		FSK8	125	1750	ALE, “111” “132” “133” - Georgia
DK2OM	7065,0	2200	02	09	CHN	RCI	A3E			Radio China International
DK2OM	7070,0	vt	vd	09	GEO	no ITU	FSK8	125	1750	ALE, “MV” “244” “686” “334” “204”
DK2OM	7077,4	1758	18	09	UKR		A1A			Cluster beacon – Sevastopol RUS Navy – “RCV”
DK2OM	7079,0	1820	18	09	RUS		PSK2	120	2600	AT3004D – submode idle - Krasnoyarsk
DK2OM	7088,0	0540	21	09	N. Sea		F1B	75	200	Russian ship, North Sea, west of Tromsø
DK2OM	7090,5	1850	12	09	RUS		PSK4B	120	2600	AT3104D - Severomorsk
DK2OM	7099,5	vt	vd	09	HRV	9A0ZG	FSK8	125	1750	ALE, “9A0ZG” “9A5EX” “9A0OS” – just for info!
DK2OM	7101,0	0340	24	09	RUS		PSK2A	120	2600	AT3004D - Chelyabinsk
DK2OM	7102,0	0749	06	09	CHN		FMCW		30k	OTH radar 43.5 sps – long lasting – also audible USA west-coast
DK2OM	7102,0	0904	11	09	HRV SUI D	9A0ALE	FSK8	125	1750	ALE, “9A0ALE” “HB9MHB” “9A0ZG” “DK0ESD” – just for info!
DK2OM	7103,0	2126	20	09	CHN		FMCW		10k	Chinese burst OTH radar – 66.7 sps – duration 3.8 sec
DK2OM	7110,0	vt	dly	09	HRV	9A0ALE	FSK8	125	1750	ALE, “9A0ALE” – just for info
DK2OM	7110,0	0012	25	09	M.Sea		PSK2A	120	2600	AT3004D – Mediterranean Sea
DK2OM	7110,0	2200	24	09	UKR		PSK2A	120	2600	AT3004D – RUS Navy Sevastopol
DK2OM	7113,0	0230	26	09	RUS		USB			Engels, female voice traffic
DK2OM	7117,0	1548	03	09	RUS	REA4	F1B	100	1000	most of the time idle – Russian airforce Moscow – ident at 1441 utc – daily, all day
DK2OM	7120,0	1700	dly	09	SOM		A3E		9k	Radio Hargaysa Somalia, daily
DK2OM	7124,0	0954	02	09	RUS		PSK2A	120	2600	AT3004D - Moscow
DK2OM	7132,0	1847	01	09	RUS		PSK2A	120	2600	AT3004D – Voronezh - daily
DK2OM	7142,0	2120	22	09	RUS		PSK2A	120	2600	AT3004D - Voronezh
DK2OM	7164,0	0749	06	09	CHN		FMCW		30k	OTH radar 43.5 sps – long lasting – also audible USA west-coast
DK2OM	7171,0	1854	01	09	RUS		F1B	100	500	idle – unclear signal - Moscow
DK2OM	7177,0	2131	20	09	CHN		FMCW		10k	Chinese burst OTH radar – 66.7 sps – duration 3.8 sec
DK2OM	7179,0	0345	25	09	UKR		PSK2A	120	2600	AT3004D - Sevastopol
DK2OM	7185,5	vt	dly	09	D HRV		FSK8	125	1750	ALE, “9A5EX” “DK0ESD” just for info - daily
DK2OM	7186,0	0640	01	09	RUS		PSK2A	120	2600	AT3004D – Severomorsk - also: 17.09.2013 at 2132 utc
DK2OM	7197,0	1830	dly	09	RUS		PSK2	62	2800	7197 – 7199.8 kHz - broadband PSK signal from Radio Rossii on 7215 kHz – also: 7230 kHz - daily
DK2OM	7197,0	1907	22	09	TUR		FSK8	125	1750	ALE, “8241” “206102” “8151” “3021” “3761” “8021” “8141” – Turkish Sivil Avunma = Turkish Civil Defense - source: DL8AAM

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	7197,0	0628	19	09	UKR		PSK2A	120	2600	AT3004D – Sevastopol – RUS navy
DK2OM	7198,0	0543	21	09	RUS		PSK2A	120	2600	AT3004D - Moscow
DK2OM	7200,0	2200	dly	09	CHN TWN		A3E			2 BCs in Chinese language – Chinese BC and SOH
DK2OM	10100,8	ady	dly	09	D		F1B	50	450	Baudot - German Weatherservice – legal!
DK2OM	10112,0	ady	dly	09	TUR		PSK8	2400	2400	Stanag4285 – 600 bps long – NE of Izmir
DK2OM	10113,0	vt	dly	09	TUN	no ITU	FSK8	125	1750	ALE, “TUD”
DK2OM	10114,8	0621	04	09	RUS		F1B	100	1000	CIS14 – Penza - daily
DK2OM	10117,3	1440	12	09	CHN		PSK4	75	2250	PRC 4+4, South China
DK2OM	10120,0	0843	Wedn.	09	UKR		A3E			female voice with encrypted msgs – figures – “SZRU” = Foreign Intelligence Service of Ukraine at Rivne – every Wednesday – carrier at 0830 utc
DK2OM	10121,0	1314	17	09	RUS		F1B	75	250	south of Moscow
DK2OM	10122,0	1755	13	09	RUS		PSK2A	120	2600	AT3004D - Voronezh
DK2OM	10125,0	0643	29	09	RUS		PSK2	120	2600	AT3004D - Grosny
DK2OM	10127,0	1420	17	09						frequency hopper
DK2OM	10130,0	1859	17	09	MRC		FSK8	125	1750	Thales 3000 – West Sahara - daily
DK2OM	10130,0	2020	25	09	RUS		PSK2	120	2600	AT3004D – submode idle - Moscow
DK2OM	10136,0	2210	24	09	RUS		F1B	50	200	Far East Russia
DK2OM	10144,0	ady	dly	09	D	DK0WCY	A1A			10143.986 kHz - DK0WCY – German aurora beacon – just for info!
DK2OM	10145,0	1933	15	09	CYP		FMCW		20k	OTH radar Cyprus – 50 sps
DK2OM	10145,5	vt	vd	09	HRV S / D	9A5EX	FSK8	125	1750	ALE, “9A5EX” “SM5VRH” “DK0ESD” - just for info
DK2OM	13999,5	2015	10	09	NAf?		USB			pirates in Arabic voice, 190 degrees, splattering up
DK2OM	14000,0	1712	11	09						frequency hopper
DK2OM	14000,0	2014	09	09	B		USB			Brazilian pirates
DK2OM	14000,0	1710	04	09	E	names	USB			Spanish fishery – also: 11.09.2013 at 1650 utc
DK2OM	14001,0	vt	dly	09	CHN		FSK8	125	1750	ALE, “397”
DK2OM	14001,0	1940	04	09	E		USB			Spanish fishery
DK2OM	14001,7	0858	07	09	RUS		MFSK	40	1400	CIS36 – 36 tones
DK2OM	14001,8	2028	07	09	NOR		PSK8	2400	2400	Stanag4285 – 600 bps long – North Norway
DK2OM	14008,0	0650	05	09	RUS		F1B	50	250	Moscow
DK2OM	14011,0	2152	02	09	INS		USB			Indonesian pirates
DK2OM	14012,0	1450	23	09						frequency hopper
DK2OM	14015,0	1336	13	09	RUS		PSK2A	120	2600	AT3004D - Krasnoyarsk
DK2OM	14026,0	0704	19	09	RUS		PSK2A	120	2600	AT3004D – Moscow – traffic and submode idle – various days
DK2OM	14031,0	0857	16	09	RUS		PSK2A	120	2600	AT3004D -
DK2OM	14052,0	0759	30	09	CHN		FMCW		10k	Chinese OTH burst radar 66.66 sps
DK2OM	14053,0	0612	23	09	RUS		PSK2A	120	2600	AT3004D - Chabarovsk
DK2OM	14060,0	vt	vd	09	ISR		FSK8	125	1750	ALE, “AAA” - Israel
DK2OM	14070,0	2012	16	09						frequency hopper
DK2OM	14108,0	vt	vd	09	RUS		A1A			idents: PCM, 1QID, T2GW, 5BB2 – RUS MIL Moscow
DK2OM	14109,0	vt	dly	09	ISR	4X1	FSK8	125	1750	ALE, “4X1” “CT2IXQ” – just for info!
DK2OM	14110,0	0759	30	09	CHN		FMCW		10k	Chinese OTH burst radar 66.66 sps
DK2OM	14122,2	0916	29	09	CHN		PSK4	75	2250	PRC 4+4 – idle
DK2OM	14126,8	0030	27	09	CAm		PSK8	2400	2400	MIL-188-141B-App. C – Carribean region (CAm = Central America)
DK2OM	14150,0	0742	10	09	CHN		FMCW		20k	Chinese burst OTH radar – 66.7 sps - jumping

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	14160,0	0810	24	09			USB			pirate playing music – 100 deg.
DK2OM	14160,0	0709	30	09	RUS		F1B	75	250	north of Smolensk
DK2OM	14162,0	0658	14	09	RUS		PSK2A	120	2600	AT3004D – modem idle - Moscow – also: 24.09.2013 at 0857 utc
DK2OM	14179,3	0800	30	09	CHN		PSK4	75	2250	PRC 4+4 - taffic
DK2OM	14182,8	1338	16	09	CHN		OFDM	44.5	2100	OFDM39 – pilottone at 400 Hz
DK2OM	14185,0	0846	13	09	RUS		FMCW		10k	OTH radar - 50 sps
DK2OM	14192,0	vt	vd	09	RUS		F1B	50	200	RUS Navy Kaliningrad – often daily
DK2OM	14195,0	0841	01	09			USB			someone playing Italian music - disturbing amateur voice traffic
DK2OM	14205,0	vt	dly	09	CHN	no ITU	FSK8	125	1750	ALE, “505” “822” – 60 deg. from DL - CHN ?
DK2OM	14208,6	1402	12	09	RUS		F1B	600	600	DPRK-FSK 600 – North Korean emba Moscow
DK2OM	14221,0	2145	02	09	KGZ		F1B	75 50	200	Bishkek - daily
DK2OM	14222,0	0655	05	09	RUS		PSK2	120	2600	AT3004D - modem idle – East of Velikiye Luki
DK2OM	14234,0	1550	11	09	RUS	REA4	F1B	100	2000	harmonic from 7117 kHz - most of the time idle – Russian airforce Moscow – ident at 1441 utc on 14235.0 in A1A – daily, all day
DK2OM	14242,0	0815	24	09	RUS		PSK2A	120	2600	AT3004D - Smolensk
DK2OM	14243,0	0744	10	09	CHN		FMCW		20k	Chinese burst OTH radar – 66.7 sps - jumping
DK2OM	14248.4	0624	04	09	FEa	AL1LH	F1B	200	200	14248.42 kHz - Pactor 2 – MO2HD calling AL1LH – no amateur calls!!! – 90 deg. from DL
DK2OM	14260,0	vt	dly	09	SRB		FSK8	125	1750	ALE, “YU1BI” – just for info!
DK2OM	14260,9	0724	10	09	RUS		OFDM	35.5	2800	OFDM60 – Smolensk - daily
DK2OM	14265,0	vt	vd	09	TUR		FSK8	125	1750	ALE, “526”
DK2OM	14266,0	1342	19	09	RUS		F1B	75	250	St. Peterburg
DK2OM	14271,0	0848	04	09	RUS		PSK2A	120	2600	AT3004D – Far East Russia
DK2OM	14278,0	0908	04	09	RUS		F1B	75	250	Far East Russia
DK2OM	14295,0	0858	03	09	CHN		FMCW		10k	Chinese OTH burst radar – 66.7 sps – 14290 – 14300 kHz – 3.8 sec bursts every 35 sec
DK2OM	14295,0	vt	dly	09	SRB	YU1BI	FSK8	125	1750	ALE, “YU1BI” – just for info!
DK2OM	14295,1	ady	dly	09	TJK		A3E			3 rd from Radio Tajik on 4765 kHz
DK2OM	14316,0	0620	30	09			A3E			BC – IM?
DK2OM	14317,0	vt	vd	09	UKR	RCV	A1A			RUS naval base Sevastopol - encrypted, cyrillic letters
DK2OM	14320,9	1038	02	09	RUS		F1D		900	2 tone signal - Moscow
DK2OM	14321,0	1530	04	09	CHN		MFSK		6k	Chinese multitone
DK2OM	14328,0	1325	06	09	CHN		FSK8	125	1750	ALE, “139” “534” “772” – West China
DK2OM	14330,0	1415	06	09			FSK8	125	1750	ALE, “BV4”
DK2OM	14342,0	1114	02	09	RUS		F1B	75	250	N. of Omsk?
DK2OM	14343,0	0745	10	09	CHN		FMCW		20k	Chinese burst OTH radar – 66.7 sps - jumping
DK2OM	14344,7	1628	06	09	CHN		OFDM		2400	preamble similar MIL-188-110A– 14344.650 kHz – 49 tones – daily, all day
DK2OM	14346,0	vt	dly	09	HRV RUS D		FSK8	125	1750	ALE, “9A0ZG” “RX3ARZ” “DK0ESD” – just for info – various times, daily
DK2OM	14346,0	vt	dly	09	THA	HS0ZEA	A1A			HS0ZEA beacon – 14345.950 kHz - every 5 minutes – just for info!
DK2OM	18075,0	1546	12	09	CYP		FMCW		20k	OTH radar Cyprus – 50 sps
DK2OM	18090,0	0931	12	09	CYP		FMCW		20k	OTH radar Cyprus – 50 sps
DK2OM	18107,0	0729	02	09	RUS	RDL	F1B	50	200	Moscow – idle and traffic – Russian navy – various days and

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										times – legal operation
DK2OM	18140,0	vt	dly	09	SRB	YU1BI	FSK8	125	2600	ALE, “YU1BI” – just for info!
DK2OM	21000,0	0628	18	09			USB			man calling “Khalid”, 120 deg. from DL
DK2OM	21000,0	1854	06	09	Afr		USB			African pirates, tribal language
DK2OM	21000,0	0836	06	09	CHN		MFSK		6k	Chinese multitone, also strong in Japan
DK2OM	21000,0	1300	23	09	E		USB			Spanish fishery, Galician voice, daily, various times
DK2OM	21000,0	2003	09	09	F		FMCW		20k	OTH radar – 2.5 sps - South France – also: 25.09.2013 at 0905 utc – sounding similar to CODAR
DK2OM	21000,0	1404	28	09	FEa		USB			Far-East pirates
DK2OM	21000,0	1350	14	09	INS		USB			Indonesian pirates
DK2OM	21000,0	1355	11	09	RUS		USB			vocoder Yakhta - encrypted voice traffic – Nizhniy Tagil
DK2OM	21000,0	---	---	09	SDN		USB			MFA Sudan – Khartoum with emba Yemen – voice traffic
DK2OM	21000,9	0935	11	09	RUS		F1B	100	300	spurious from 21001,5 kHz
DK2OM	21001,5	0811	03	09	RUS		F1B	100	150	vocoder Yakhta inband synchro – Nizhniy Tagil
DK2OM	21002,1	---	---	09	SDN		F1B	100	170	21002.15 kHz - Pactor 1 encrypted – MFA Sudan – Khartoum with emba Yemen
DK2OM	21003,0	1400	14	09						frequency hopper
DK2OM	21004,8	1610	04	09	RUS		PSK2B	1200	1200	spurious from 20998.3 – Nizhniy Tagil
DK2OM	21006,6	1507	06	09	RUS		F1B	100	300	spurious from 21001,5 kHz
DK2OM	21008.1	1559	08	09	RUS		F1B	100	450	spurious from 21001,5 kHz
DK2OM	21035,0	1440	30	09	CYP		FMCW		20k	OTH radar Cyprus – 50 sps
DK2OM	21090,0	0914	19	09	CYP		FMCW		20k	OTH radar Cyprus – 50 sps
DK2OM	21096,0	vt	dly	09	INS	YD00XH	FSK8	125	1750	ALE, “YD00XH3” – daily, various times - just for info!
DK2OM	21100,0	1647	04	09	E		USB			Spanish fishery
DK2OM	21100,0	1714	11	09	NMB		USB			pirates, Namibian coast
DK2OM	21100,0	1000	27	09	POR		USB			Portuguese fishery
DK2OM	21101,0	1715	05	09	FEa		USB			Far East pirates
DK2OM	21120,0	1253	07	09						frequency hopper
DK2OM	21140,8	0900	11	09	MEa		PSK8A	2400	2400	MIL-188-141B
DK2OM	21145,0	vt	dly	09	MRC		FSK8	125	1750	ALE, “B301”, “C3”, “IR4” “T4” “E4” “A2” “CD” “K3” – various times, daily
DK2OM	21175,0	1501	20	09	TUR		FMCW		20k	OTH radar NW-Turkey – 50 sps
DK2OM	21190,0	1419	12	09	TUR		FMCW		20k	NW-Turkey – 25 sps
DK2OM	21200,0	1601	08	09	CYP		FMCW		20k	OTH radar Cyprus – 50 sps
DK2OM	21210,0	0920	22	09	AUS		FMCW		10k	OTH radar JORN - 34.5 and 29.4 sps – 2 sec bursts
DK2OM	21240,0	0719	21	09	AUS		FMCW		10k	OTH Radar JORN bursts
DK2OM	21290,0	1330	27	09	TUR		FMCW		20k	OTH radar – 50 sps – NW-Turkey
DK2OM	21409,5	0634	20	09	RUS		F1B	100	2000	CIS14 – harmonic from 10704.75 – Jekaterinburg
DK2OM	21430,0	1328	20	09	TUR		FMCW		20k	OTH radar Turkey – 50 sps – area of Ankara
DK2OM	21438,0	1355	26	09	UKR	RCV	A1A			RIP90 de RCV - RUS Navy Sevastopol - daily
DK2OM	21444,0	0717	21	09						frequency hopper
DK2OM	21446,0	ady	dly	09	THA	HS0ZEA	A1A			HS0ZEA beacon – every 5 minutes - just for info!
DK2OM	24920,0	0940	26	09						frequency hopper
DK2OM	25000,0	vt	dly	09	FIN		A3E			time signal Helsinki – just for info – carrier on 25000 – dots on 25001 and 24999 – daily, all day
DK2OM	28000,0	1905	15	09			USB			pirates – unid language, 220 deg.
DK2OM	28000,0	vt	dly	09	B		A3E			28000 – 28325 numerous Brazilian CBers
DK2OM	28000,0	vt	dly	09	CIS		F3E			28000 – 29700 numerous CIS

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										taxi nets
DK2OM	28005,0	0915	06	09	E		A3E			Spanish CBers
DK2OM	28005,0	ady	dly	09	RUS		F3E			taxi net St. Peterburg, daily, all day
DK2OM	28015,0	1838	04	09	B		A3E			Brazilian CBers
DK2OM	28025,0	1831	04	09	B		A3E			Brazilian CBers
DK2OM	28030,0	vt	dly	09	POR		F1B	51	320	F1B bursts - west of Lisbon
DK2OM	28033,0	0900	22	09	IRN		FMCW		60k	OTH Radar Iran – 307 and 870 sps
DK2OM	28035,0	1846	04	09	B		A3E			Brazilian CBers
DK2OM	28040,0	1429	26	09	RUS		F3E			RUS taxi
DK2OM	28040,0	0843	29	09	RUS		F3E			RUS taxi
DK2OM	28040,1	vt	dly	09	POR		F1B	51	320	F1B bursts - west of Lisbon – Enagal GPS buoys
DK2OM	28045,0	1823	12	09	B		A3E			Brazilian CBers
DK2OM	28055,0	1649	06	09	RUS		F3E			taxi Moscow
DK2OM	28065,0	1838	04	09	B		A3E			Brazilian CBers
DK2OM	28065,0	1000	25	09	FEa		A3E			Far East pirates
DK2OM	28075,0	1832	04	09	B		A3E			Brazilian CBers
DK2OM	28085,0	1832	04	09	B		A3E			Brazilian CBers
DK2OM	28095,0	1845	04	09	B		A3E			Brazilian CBers
DK2OM	28100,0	1726	05	09	FEa		USB			Far East pirates
DK2OM	28100,2	vt	dly	09	POR		F1B	51	320	F1B bursts - 28100.160 kHz - west of Lisbon – Enagal GPS buoys
DK2OM	28105,0	1844	04	09	B		A3E			Brazilian CBers
DK2OM	28115,0	1830	04	09	B		A3E			Brazilian CBers
DK2OM	28145,0	1833	04	09	B		A3E			Brazilian CBers
DK2OM	28145,0	1428	26	09	RUS		F3E			RUS taxi
DK2OM	28146,0	vt	vd	09	ARG B		FSK8	125	1750	ALE, “LU8EX” “PY2TI” “DL1” – just for info!
DK2OM	28165,0	1843	04	09	B		A3E			Brazilian CBers
DK2OM	28175,0	1849	04	09	B		A3E			Brazilian CBers
DK2OM	28185,0	1828	04	09	B		A3E			Brazilian CBers
DK2OM	28195,0	1848	04	09	B		A3E			Brazilian CBers
DK2OM	28200,0	vt	dly	09	POR		F1B	51	320	F1B bursts - west of Lisbon
DK2OM	28205,0	1828	04	09	B		A3E			Brazilian CBers
DK2OM	28207,0	1540	27	09	IRN		FMCW		60k	OTH Radar Iran – 307 and 870 sps – jumping
DK2OM	28225,0	1842	04	09	B		A3E			Brazilian CBers
DK2OM	28235,0	1659	06	09	B		A3E			Brazilian CBers
DK2OM	28245,0	1850	04	09	B		A3E			Brazilian CBers
DK2OM	28255,0	1829	04	09	B		A3E			Brazilian CBers
DK2OM	28255,0	1651	06	09	RUS		F3E			taxi Moscow
DK2OM	28275,0	1846	27	09			USB			pirates from Balkan
DK2OM	28275,0	1841	04	09	B		A3E			Brazilian CBers
DK2OM	28285,0	1842	04	09	B		A3E			Brazilian CBers
DK2OM	28285,0	1839	04	09	E		A3E			Spanish CBers – also: 06.09.13 at 0936 utc
DK2OM	28295,0	1836	4	09	B		A3E			Brazilian CBers
DK2OM	28305,0	1829	04	09	B		A3E			Brazilian CBers
DK2OM	28305,0	vt	dly	09	RUS		F3E			taxi - Arkhangelsk
DK2OM	28315,0	1840	04	09	B		A3E			Brazilian CBers
DK2OM	28365,0	0900	19	09	IRN		FMCW		50k	OTH Radar Iran – 307 and 870 sps
DK2OM	29250,0	1346	28	09	E		F1B	81.9	140	Datawell-buoy “Waverider” – 29249.905 kHz – Fuerteventura - daily, all day
DK2OM	29375,0	---	--	09	I		F1B	81.9	140	Datawell-buoy “Waverider” – 29374.898 kHz – Galatone, South Italy - daily, all day
DK2OM	29387,5	---	--	09	IND		F1B	81.9	140	Datawell-buoy “Waverider” – 29387,460 kHz – Indian NW coast, close to Pakistan - daily, all day
DK2OM	29450,0	1347	28	09	MRC		F1B	81.9	140	Datawell-buoy “Waverider” – 29449.870 kHz - area of El

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										Aaiun – Morocco - daily, all day
DK2OM	29500,0	1014	11	09	G		F1B	81.9	140	Datawell-buoy “Waverider” – area of Gibraltar – daily, all day
DK2OM	29525,0	---	---	09	MRC		F1B	81.9	140	Datawell-buoy “Waverider” – 29524.990 kHz - Agadir - Morocco – daily, all day
DK2OM	29684,8	---	---	09	I		serial			serial modem, Italian MIL Brescia – Sporadic E!
DK2OM	29699,8	---	---	09	I		serial			serial modem, Italian MIL Brescia – Sporadic E!

IRTS – Ireland – EI5DD (Steve)

KARS – Kuwait – 9K2RR (Faisal)

MRASZ – Hungary - HA7PL (Laci)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
MRASZ	3530,1	1742	5	9			A1A			"vvv test de YU1CF" beacon???
MRASZ	3555,0	1734	22	9		Ui	A3E			
MRASZ	3725,0	1820	25	9		Ui	LSB			Music
MRASZ	3742,0	2005	27	9			OTHR			
MRASZ	3792,0	0622	25	9	Ui		USB			Ui male, seems anti-aircraft mess.
MRASZ	7000,0	1805	1	9	UKR	D	A1A			"D" beacon, also on days: 3, 27
MRASZ	7000,0	1708	17	9		Ui	LSB			Unidentified language
MRASZ	7000,1	1806	1	9		Ui	A1A			"VVVV GIUSEPPE (2X) K"
MRASZ	7002,0	1607	12	9			PSK			Stanag 4285?
MRASZ	7006,5	1644	25	9			F1A			5 figs, "64T73 5154T 7764T"
MRASZ	7006,5	1935	25	9		Ui	F1B		500	
MRASZ	7008,0	1759	25	9			PSK2			AT3004D
MRASZ	7016,0	ady	5	9			F1B		250	
MRASZ	7017,0	1758	25	9			A1A			Quick dotter
MRASZ	7017,0	1610	12	9			PSK2			AT3004D
MRASZ	7022,0	1755	25	9			PSK2			AT3004D, also on day 27, 30
MRASZ	7027,0	1659	3	9			PSK2			AT3004D
MRASZ	7027,5	1645	10	9			A1A			" V V V" (3sec)
MRASZ	7030,0	1611	12	9			PSK2			AT3004D
MRASZ	7038,7	ady	dly	9	UKR	D	A1A			"D" beacon
MRASZ	7038,8	1700	mdy	9	RUS	P	A1A			"P" beacon
MRASZ	7038,9	1721	22	9	RUS	S	A1A			"S" beacon, also on days: 24, 30
MRASZ	7049,0	1447	15	9		Ui	F1B		200	
MRASZ	7077,5	2021	27	9	UKR	D	A1A			"D" beacon
MRASZ	7092,0	0642	20	9			FAX			Weefax?
MRASZ	7100,0	1721	30	9			N0N			
MRASZ	7102,5	1936	24	9		Ui	A3E			Ui male
MRASZ	7114,0	1646	10	9			N0N			
MRASZ	7117,0	ady	dly	9	RUS	REA4	F1B	100	1000	
MRASZ	7120,0	ady	dly	9	SOM		A3E			"Radio Hargaysa", daily
MRASZ	7132,0	ady	dly	9			PSK2			AT3004D
MRASZ	7142,0	1719	22	9			PSK2			AT3004D
MRASZ	7156,0	0643	20	9			PSK2			AT3004D
MRASZ	7158,5	1715	17	9			PSK2			AT3004D
MRASZ	7177,0	1718	22	9			OTHR			
MRASZ	7186,0	1718	17	9			PSK2			AT3004D

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
MRASZ	7186,0	1932	24	9			PSK2			AT3004D
MRASZ	7197,0	0629	19	9			PSK2			AT3004D
MRASZ	7197,0	1837	23	9			PSK2			AT3004D
MRASZ	7198,0	1710	25	9			PSK2			AT3004D
MRASZ	7199,8	1035	20	9		Ui	F1B			
MRASZ	10135,0	0744	22	9		Ui	A3E			
MRASZ	14026,0	1733	30	9	RUS		PSK2			AT3004D
MRASZ	14053,0	1727	22	9			PSK2			AT3004D
MRASZ	14076,6	0741	22	9			N0N			
MRASZ	14221,0	0814	5	9	KGZ		F1B	50	200	
MRASZ	14260,0	0801	5	9			USB			"674" Spy radio
MRASZ	14295,0	1654	mdy	9	TJK		A3E			3rd. harmonic fm 4765 kHz
MRASZ	14340,0	1729	22	9			OTHR			Till 14395
MRASZ	21001,5	1305	12	9	RUS		F1B	100	150	Also on days: 13,14,15,17,19,20
MRASZ	21006,5	0954	13	9			F1B		300	VOCODER?
MRASZ	21105,0	0732	1	9			OTHR			Till 21130
MRASZ	28005,0	0818	5	9			NBFM			female russian
MRASZ	28135,0	0823	5	9			NBFM			female russian
MRASZ	28195,0	0820	5	9			NBFM			female russian
MRASZ	28365,0	1040	20	9	IRN		FMCW			till: 28430

OEVSV – Austria – OE3GSA (Gerd)

Club	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
oevsv	7000.0	2005	15	09	unid	D	A1A			
oevsv	7000.0	1914	24	09	RUS	D	A1A			
oevsv	14025.0	0615	24	09	unid	unid	F1B		250	multitone
oevsv	21001.5	0550	07	09	unid	unid	F1B	100	150	
oevsv	28008.3	0629	30	09	unid	4ION	A1A			unstable beacon
oevsv	28315.0	1835	15	09	B	names	A3E			CB like traffic

PZK – Poland – SP3UZ (Wladyslaw)

REP – Portugal – CT4AN (Jose Francisco)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REP	3501,0	19.00	22	09			J3E-U			Fishermen
REP	3505,0	07.45	30	09	E		J3E-U			Fishermen
REP	3508,0	08.00	02	09	E		J3E-U			Spanish Fishermen
REP	3510,0	08.11	19	09	E		J3E-U			Fishermen on a big Net
REP	3530,0	19.54	20	09			J3E-U			Unid ops
REP	3540,0	16.00	08	09			J3E-U			Unid language fishery
REP	3700,0	07.12	18	09	RUS		J3E-U			Navy
REP	3800,0	21.40	04	09	?		SSPECT			VWB Spread Spectrum TX Tests (Ham ?)
REP	7000,0	19.30	22	09	E		J3E-U			Pirate Female talks
REP	7000,0	22.00	27	09		D	A1A			Beacon
REP	7023,5	21.57	01	09	B		F1B	75	240	Unid encrypted
REP	7025,0	08.00	21	09	E		J3E-U			Spanish Fishermen
REP	7030,0	02.18	14	09	E		J3E-U			Fishermen
REP	7030,0	21.40	05	09			FM/CW			OTH radar
REP	7035,0	07.04	10	09			J3E-U			Voice Tests with any calls
REP	7038,7	23.00	19	09	UKR	D	A1A			SEVASTOPOL, ADY, DLY
REP	7038,8	23.11	19	09	RUS	P	A1A			MURMANSK, ADY, DLY
REP	7039,0	23.04	19	09	RUS	C	A1A			MOSCOW, ADY, DLY
REP	7039,1	21.54	23	09	RUS	A	A1A			VOLGOGRAD, ADY, DLY
REP	7039,3	21.50	23	09	RUS	K	A1A			VOLGOGRAD, ADY, DLY
REP	7045,0	23.33	12	09			J3E-U			Scrambled voices
REP	7050,5	21.40	09	09			F1B	50	200	Unid FSK
REP	7065,0	22.17	12	09	CHN		8k00			Chinese broadcast

							A3EGN			
REP	7070,0	13.40	11	09			J3E-L			Music and jamming
REP	7070,0	15.00	14	09			J3E-L			Classic music jamming all afternoon
REP	7070,0	13,57	29	09			J3E-L			Jamming music over QSO's
REP	7105,0	22,28	02	09			A3E			Jamming
REP	7117,0	08.02	03	09	RUS		F1B	100	1k	
REP	7117,0	22.00	08	09	RUS	REA4	F1A			
REP	7170,0	23.11	12	09			J3E-U			Male and female talks
REP	7175,0	17.22	22	09			8k00 A3EGN			BC with Music
REP	10100,0	12.15	30	09	MRC		J3E-U			Fishermen
REP	10105,0	18.55	13	09	MRC		J3E-U			Fishermen's Net
REP	10110,0	20.59	26	09			J3E-U			Numbers station (5 digits)
REP	10115,0	23.35	05	09			A3E			Letter Station with 5 letter transmission
REP	10115,0	19.55	18	09	MRC		J3E-U			Moroccan fishermen
REP	10121,0	01.20	11	09			J3E-U			Unid Navy ops
REP	10125,0	17.00	07	09	MRC		J3E-U			Arabic talking
REP	10133,0	18.20	07	09			FM/CW			OTH radar
REP	10135,0	18.00	02	09	E		J3E-U			Spanish fishery
REP	10145,0	18.05	28	09	E		J3E-U			Spanish fishery
REP	14000,0	08.44	19	09			F1B	300	425	RY RY RY
REP	14008,0	19.10	19	09	RUS		F1B	50	200	
REP	14012,0	21.10	27	09	E		J3E-U			Several male voices
REP	14024,0	07.50	19	09			F1B			Not on standard speed
REP	14105,0	22.37	24	09	I		J3E-U			Talks ship to ship
REP	14221,0	21,05	12	09	KGZ		F1B	50	200	Idle
REP	14321,0	18.33	02	09	CHN		A3E			Multitone
REP	18070,0	14.44	22	09			FM/CW			OTH radar
REP	21001,5	15.54	21	09	RUS		F1B	100	150	Vocoder
REP	21077,0	13.10	22	09			FM/CW			OTH radar
REP	21100,0	10.55	12	09	E		J3E-U			Fishermen
REP	21100,5	20.14	10	09	MRC		J3E-U			Fishermen
REP	28010,0	16.14	14	09	B		A3E			Brazilians
REP	28015,0	13.48	14	09	B		A3E			Multiple brazilian ops, AM and SSB
REP	28015,0	17.35	10	09	B		A3E			Brazilian ops, roger beeps
REP	28025,0	13.10	14	09	B		A3E/J3E			Multiple brazilian ops
REP	28035,0	18.40	25	09	B		A3E			Brazilian CB interfering CW QSO's
REP	28045,0	19.19	07	09	B		A3E			Brazilian ops, echo chamber
REP	28065,0	20.43	06	09	B		A3E			Brazilian truckers discussing
REP	28085,0	17.31	10	09	B		A3E			YL and OM brazilian ops
REP	28100,0	18.29	19	09	B		A3E			Brazilian truckers, several TX's
REP	28115,0	17.25	10	09	B		J3E-U			Brazilian ops, also tx in A3E
REP	28115,0	11.28	07	09	B		A3E			Brazilians
REP	28125,0	18.42	19	09	B		A3E			Brazilian ops, also J3E-U
REP	28134,5	17.41	01	09	B		J3E-U			Brazilian truckers, also A3E
REP	28135,0	11.07	05	09	B		A3E			Brazilian ops, truckers
REP	28145,0	19.00	22	09	B		A3E			Brazilians chatting
REP	28155,0	19.00	19	09	B		A3E			Brazilian ops, several
REP	28400,0	14.15	10	09			FM/CW			OTH radar
REP	28690,0	11.48	19	09			A3E			Random 9 tones cycling
REP	29140,0	13.20	27	09	RUS		F3E			Russian YL taxi dispatcher
REP	29150,0	13.25	19	09	RUS		F3E			Russian taxi dispatcher
REP	29155,0	13.21	19	09	RUS		F3E			Russian taxi dispatcher
REP	29200,0	13.06	27	09	RUS		F3E			Russian YL taxi dispatcher
REP	29210,0	13.27	19	09	RUS		F3E			Russian YL taxi dispatcher

RSGB - Great Britain – G4BOH (Chris)

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	REMARKS
RSGB	14000			09				68 Hz prf bursts, 3 seconds long at 30 second intervals on numerous frequencies across band. Heard on several days during month. Investigations continuing.

SRAL – Finland – OH2BLU (Pekka)

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
SRAL	7000,0	0800-1400	22.	9		UiCarr	N0N			
SRAL	7000,0	0630-1800	24. 26.	9		UiMUX	PSK2	120	2600	
SRAL	7005,5	1025	9.	9		UiPTR	F1B		250	
SRAL	7006,5	0655-1925	*	9		UiPTR	F1B		500	Days: 5. 25. 28. MR 5F
SRAL	7008,0	0545-0645	28.	9		UiPTR	F1B		250	
SRAL	7010,0	0955	25.	9		UiCW	A1A			dotter
SRAL	7011,0	0830-1320	17.-19.	9		UiMUX	PSK2	120	2600	
SRAL	7013,0	1615-1700	10.	9		UiMUX	PSK2	120	2600	
SRAL	7016,0	0415-1920	4.-6.	9		UiPTR	F1B		200/250	
SRAL	7018,0	0940	20.	9		UiPTR	F1B		500	
SRAL	7018,62	0955-1610/	16.	9		UiCarr	N0N			
SRAL	7020,0	1610-1719/	7.	9		UiPTR	F1B		250	
SRAL	7022,0	h24	18.	9	RUS	UiMUX	PSK2	120	2600	
SRAL	7030,0	1315-1400	2.	9		UiMUX	PSK2	120	2600	
SRAL	7030,0	1220-1330	1. 5. 30.	9		UiPTR	F1B		250	
SRAL	7031,0	1530-1930	6. 7.	9		UiCW	A1A			50 Hz dotter
SRAL	7038,7	h24	dly	9	UKR	D	A1A			Sevastopol
SRAL	7038,8	0145-1945	3. – 30.	9	RUS	P	A1A			Kaliningrad
SRAL	7038,9	h24	1. – 25.	9	RUS	S	A1A			Severomorsk
SRAL	7039,0	0400-1415	*	9	RUS	C	A1A			Moscow, days: 7. 14. 17. 22. 23.
SRAL	7042,6	1340	4.	9		UiCW	A1A			MR 5BL, chirpy
SRAL	7044,0	1300-1700	1. 11.	9		UiPTR	F1B		250	
SRAL	7047,0	1400-0700	2. 16.	9	UKR	UiMUX	PSK2	120	2600	
SRAL	7047,0	0635-0920	24.	9		UiOTHR	FMCW			150Hz / 4kHz
SRAL	7047,0	1010-1405	24.	9		UiPTR	F1B		500	
SRAL	7049,0	0455-2325	*	9	RUS	UiPTR	F1B		200	Days: 15. 16. 21.
SRAL	7051,0	0850	18.	9		UiMUX	PSK2	120	2600	
SRAL	7051,75	1330-1400	24.	9		UiCarr	N0N			
SRAL	7055,0	1430-1730	2. 16.	9		UiMUX	PSK2	120	2600	
SRAL	7059,0	0850-1020	18.	9		UiPTR	F1B		250	
SRAL	7061,0	0550-0630	22.	9		UiMUX	PSK2	120	2600	
SRAL	7076,0	1145-1730	*	9		UiMUX	PSK2	120	2600	Days: 19. 24. 28.
SRAL	7078,6	1800-1930	18.	9		UiMUX	PSK2	120	2600	
SRAL	7088,0	0445-1930	2. 20.	9		UiPTR	F1B		200	
SRAL	7090,5	1850	12.	9		UiMUX	PSK2	120	2600	
SRAL	7102,0	0940-1335	18.	9		UiMUX	PSK2	120	2600	
SRAL	7114,0	0945-1115	25.	9		UiMUX	PSK2	120	2600	

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
SRAL	7114,0	1430-0600	*	9	RUS	UiPTR	F1B / N0N		200	Days: 4. – 10. 15. – 18.
SRAL	7117,0	1300-1930	dly	9	RUS	UiPTR	F1B		500/800/1000	800 Hz on 28. – 30.
SRAL	7120,0	0330-0430	*	9	SOM	R. Hargeisa	A3E			Days: 1. – 5. 23. – 30.
SRAL	7120,0	1500-1900	dly	9	SOM	R. Hargeisa	A3E			Days: 1. – 5. 23. – 30.
SRAL	7122,0	0945	25.	9		UiPTR	F1B		250	
SRAL	7124,0	1100	2.	9	RUS	UiMUX	PSK2	120	2600	
SRAL	7125,0	0655-0815	5.	9	RUS	UiMUX	PSK2	120	2600	
SRAL	7127,0	0945-1405	6. 24.	9	RUS	UiCW	A1A			MR 5F
SRAL	7132,0	h24	1. – 22.	9	RUS	UiMUX	PSK2	120	2600	
SRAL	7140,0	0600-1830	*	9		UiMUX	PSK2	120	2600	Days: 2. 16. 21.
SRAL	7142,0	h24	22.- 25.	9	RUS	UiMUX	PSK2	120	2600	
SRAL	7142 A	1620-1715	24.	9		UiBC	Spur.			From 7210 kHz
SRAL	7154,0	0540-1030	25.	9		UiMUX	PSK2	120	2600	
SRAL	7158,0	1810	17.	9		UiMUX	PSK2	120	2600	
SRAL	7162,0	1130-1600	1. 5.	9		UiPTR	F1B		250	
SRAL	7171,0	1315-1930	1.	9		UiPTR	F1B		500	
SRAL	7174,0	0335-1915	*	9		UiMUX	PSK2	120	2600	Days: 9. – 11.
SRAL	7175 A	1800-1900	*	9	IRN	IRIB	Spur.			From 7240 kHz, days: 11. 12. 16. 17. 26.
SRAL	7176,0	1415-1607/	28.	9		UiPTR	F1B		250	
SRAL	7176,0	0850-1910	21. 24.	9		UiMUX	PSK2	120	2600	
SRAL	7184,0	0130-1800	20. 30.	9		UiMUX	PSK2	120	2600	
SRAL	7186,0	0425-1930	*	9	RUS	UiMUX	PSK2	120	2600	Days: 8. 17. 20. – 24.
SRAL	7196,0	1200-1300	24.	9		UiMUX	PSK2	120	2600	
SRAL	7196,0	0730-0800	6. 13.	9		UiPTR	F1B		200	
SRAL	7197,0	0600-1930	2. 19.	9		UiMUX	PSK2	120	2600	
SRAL	7198,0	0300-0705/	*	9	RUS	UiMUX	PSK2	120	2600	Days: 13. 21. 24. 25.
SRAL	7198,0	1400-1905/	*	9	RUS	UiMUX	PSK2	120	2600	Days: 13. 21. 24. 25.
SRAL	7195,0-7200,0	1715-1930	dly	9	RUS	RRI				Splatter from 7215 kHz
SRAL	7200,0	0930-1230	20.	9		UiPTR	F1B		500	
SRAL	14015,0	1330	13.	9		UiMUX	PSK2	120	2600	
SRAL	14026,0	0650-1400	27. – 30.	9	RUS	UiMUX	PSK2	120	2600	
SRAL	14160,0	0515-0735	*	9	RUS	UiPTR	F1B		250	Days: 9. 27. 30.
SRAL	14169,0	1145	17.	9		UiPTR	F1B		200	
SRAL	14220,0	0810	5.	9		UiPTR	F1B		500	
SRAL	14221,0	1900-0500	dly	9		UiPTR	F1B		200	
SRAL	14240,0	0715-1330	10. 17.	9		UiPTR	F1B		250	
SRAL	14266,0	1315	19.	9	RUS	UiPTR	F1B		250	
SRAL	14272,0	0955-	30.	9		UiPTR	F1B		200	

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
		1005								
SRAL	14295,2	h24	dly	9	TJK	R Tojikiston	A3E			3f 4765,07 kHz, Yangiyul TX
SRAL	14 MHz	0635-1145	*	9	RUS	UiOTHR	FMCW			50Hz / 10 kHz, 5 reports
SRAL	18 MHz	1110-1425	*	9	CYP / TUR	UiOTHR	FMCW			50Hz / 20 kHz, 4 reports
SRAL	18107,0	0735	30.	9		UiPTR	F1B		200	
SRAL	21 MHz	0555-1355	*	9	CYP / TUR	UiOTHR	FMCW			50Hz / 20 kHz, 13 reports
SRAL	21001,5	0650-1355	*	9	RUS	UiPTR	F1B		150	Vocoder, days: 7. 8. 19. 28. 29. 30.
SRAL	21006,5	0650-1015	*	9	RUS	UiPTR	F1B		150	Vocoder spur. days: 8. 28. 30.
SRAL	21438,0	0735-1045	30.	9	RUS	RCV	A1A			procedures
SRAL	28 MHz	0735-1050	*	9	IRN	UiOTHR	FMCW			307 & 870 Hz / 60 kHz, 3 reports
SRAL	28 MHz	0820-0945	8. 28.	9	RUS	Taxi disp.	F3E			9 reports

USKA – Switzerland – HB9CET (Peter)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	7000.0	1909	01	09		D	A1A			Beacon D
USKA	7000.0	1855	04	09			?		~7k	unident multitone signal
USKA	7001.0	1626	11	09			J3E-L			Italian
USKA	7001.8	1706	12	09			PSK-8	2400	2K4	Stanag 4285
USKA	7016.0	1145	05	09			F1B	75	250	
USKA	7020.0	1604	11	09			J3E-L			unident language
USKA	7022.0	2041	25	09			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D often
USKA	7030.0	2120	10	09			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D
USKA	7038.7	2123	01	09	UKR	D	A1A			Beacon D Sevastopol daily
USKA	7038.8	2249	04	09	RUS	P	A1A			Beacon P Kaliningrad daily
USKA	7038.9	2134	10	09	RUS	S	A1A			Beacon S Murmansk daily
USKA	7039.4	2141	01	09	RUS	M	A1A			Beacon M Magadan daily
USKA	7045.0	2151	01	09			J7D	12x120	2k7	CIS12 system
USKA	7047.0	0752	09	09			J7D	12x120	2k7	CIS12 system
USKA	7059.0	0817	06	09			F1B	75	250	
USKA	7061.0	0658	06	09			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D daily
USKA	7065.0	2147	01	09			A3E			China Radio International daily
USKA	7069.0	2017	02	09		V	A1A			Beacon V, every ~1.1s
USKA	7070.0	2135	01	09			J7D		2k7	CIS12 idling
USKA	7070.0	1923	02	09		244	MFSK8	125	1750	MIL 188-141A daily
USKA	7070.0	0323	03	09		334	MFSK8	125	1750	MIL 188-141A
USKA	7070.0	0323	03	09		465	MFSK8	125	1750	MIL 188-141A
USKA	7070.0	2137	04	09		686	MFSK8	125	1750	MIL 188-141A
USKA	7070.0	2357	02	09		810201	MFSK8	125	1750	MIL 188-141A
USKA	7070.0	0036	04	09		810202	MFSK8	125	1750	MIL 188-141A
USKA	7070.0	2350	02	09		810207	MFSK8	125	1750	MIL 188-141A
USKA	7070.0	0145	05	09		810209	MFSK8	125	1750	MIL 188-141A
USKA	7070.0	2355	02	09		810210	MFSK8	125	1750	MIL 188-141A
USKA	7070.0	0056	04	09		820201	MFSK8	125	1750	MIL 188-141A
USKA	7070.0	0028	05	09		820205	MFSK8	125	1750	MIL 188-141A
USKA	7070.0	2356	02	09		820210	MFSK8	125	1750	MIL 188-141A
USKA	7079.0	2015	02	09			J7D		2k7	CIS12 idling
USKA	7080.0	1834	04	09			F1B	50	200	
USKA	7089.8	2110	09	09			G1D	2400	2k6	PSK-8: Link 11- SLEW often
USKA	7090.5	2049	25	09			J7D		2k7	PSK-2: CIS12 = AT3004D
USKA	7105.0	2203	02	09			?		~7k7	Jammer or digital emission?
USKA	7113.9	2109	01	09			A1A			Jammer badly interfering hams! Spikes > 3kHz :-(
USKA	7114.0	2109	01	09			F1B	50	200	often
USKA	7117.0	2155	02	09			F1B	100	1k	
USKA	7117.0	1542	05	09		REA4	F1A		1k	approx every hour

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	7119.0	0823	12	09			F1B	40.5	250	
USKA	7120.0	1848	03	09	SOM		A3E			Radio Hargaysa daily
USKA	7125.0	0716	05	09			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D
USKA	7132.0	1912	01	09			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D often
USKA	7161.875	1413	05	09			A1A			Jammer badly interfering the band! Spikes over > 3 kHz
USKA	7162.0	1413	05	09			F1B	75	250	
USKA	7171.0	1914	01	09			F1B	100	500	
USKA	7174.0	2101	09	09			J7D	12x120	2k7	PSK-4: CIS12 = AT3104D
USKA	7186.0	2057	17	09			J7D		2k7	CIS12 system idling
USKA	7198.0	2231	11	09			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D
USKA	7200.0	2200	02	09			A3E		~10k	BC, interfering 40m band
USKA	14026.0	2019	23	09			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D often
USKA	14053.0	2044	23	09			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D often
USKA	14162.0	0851	24	09			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D
USKA	14171.0	1216	17	09			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D
USKA	14176.0	1519	10	09			J7D		2k7	CIS12 idling
USKA	14192.0	1002	25	09			F1B	50	200	almost daily
USKA	14200.0	1049	18	09			FMCW	50 sps	10k	
USKA	14221.0	2045	28	09			F1B	50	200	almost daily
USKA	14234.0	2044	09	09			F1B	100	2k	Harmonic of 7117 kHz
USKA	14238.0	0815	09	09			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D
USKA	14242.0	0948	24	09			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D
USKA	14260.8	0756	12	09			OFDM60	35.6Bd	2k7	spacing 44.4Hz; Piloton
USKA	14264.0	0616	12	09			FMCW	66.66	10k	OTHR ~BD 3.7 s, ~BRI 35s
USKA	14266.0	1324	19	09			F1B	75	250	
USKA	14308.0	0616	03	09			FMCW	66.66	10k	OTHR ~BD 3.7 s, BRI 40s
USKA	14321.0	1553	04	09			unid		~6k	unident multitone Signal
USKA	14331.0	0746	05	09			F1B		250	
USKA	14334.0	0915	01	09			FMCW	83 sps	10k	OTHR
USKA	14344.0	0731	10	09			FMCW	66.66sps	10k	OTHR ~BD 3.7 s, ~BRI 24s
USKA	14344.65	1846	04	09			PSK-8	2400	2k4	MIL188-100 modified burst system daily
USKA	14348.0 14354.0	1921	05	09			FMCW	47 sps	10k	Shifting frequency +/- 5 kHz BD ~16s BRI ~43s
USKA	18065.0	1009	04	09			FMCW	50 sps	20k	
USKA	18075.0	1539	04	09			FMCW	50 sps	20k	
USKA	18107.0	0743	02	09			F1B	50	200	CIS 36-50 often
USKA	18107.0	0745	02	09		RDL	F1A		200	often
USKA	18107.0	0729	06	09			F1B	36	200	CIS 36-50
USKA	18130.0	0741	02	09			F1B	100	1k	Harmonic of 9065 (500Hz)
USKA	18148.8	0731	05	09			F1B		600	Harmonic
USKA	18150.8	0731	05	09			F1B		600	Harmonic
USKA	21001.5	0625	03	09			F1B	100	150	
USKA	21006.5	0904	07	09			F1B	100	300	spurious
USKA	21105.0	0736	05	09			FMCW	47 sps	10k	OTHR BD 5.3s BRI 35s
USKA	21230.0	0629	03	09			FMCW	50 sps	25k	
USKA	21385.0	0907	01	09			FMCW	47 sps	10k	OTHR BD 5.3s BRI 35s
USKA	21410.0	0633	03	09			F1B	50	2000	Harmonic of 10705.0
USKA	28365.0	1034	21	09			F3E			Russian voices

Veron 1 – Netherlands – PA2GRU (Dick)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SHIFT	DETAILS
VERON	3513.7	20.06	4	9		UiPTR	F1B		Sitor A/ARQ 625
VERON	3527.0	20.09	4	9		UiPTR	F1B		Revs
VERON	3548.0	17.33	14	9		UiPTR	F1B		Ptr
VERON	7000.0	17.10	16	9	Italy	UiILL	J3e-L		Italian male voices, no CS
VERON	7008.0	07.15	28	9	?	UiCW	A1A		dotter
VERON	7008.0	17.29	25	9	RUS	UiMUX	PSK	2600	12 MPSL AT3004-D Moscow
VERON	7023.0	17.25	25	9	RUS	UiMUX	PSK	2600	12 MPSK AT3004-D Kaliningrad, also 26/9
VERON	7026.0	17.01	26	9		UiPTR	F1B		Ptr

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SHIFT	DETAILS
VERON	7027,5	18.34	10	9	KYR	UiCW	A1A		V-beacon
VERON	7038,7	vt	vd	9	UKR	D	A1A		Beacon Sevastopol
VERON	7038,7	18.45	14	9	UKR	D	A1A		D-beacon
VERON	7038,8	vt	vd	9	RUS	P	A1A		Beacon Kaliningrad
VERON	7038,8	18.45	14	9	RUS	P	A1A		P-beacon, also 10/9 11/9 13/9 16/9 17/9
VERON	7038,9	vt	vd	9	RUS	S	A1A		Beacon Severomorsk
VERON	7038,9	18.45	14	9	RUS	S	A1A		S-beacon, also 8/9 9/9
VERON	7039,0	18.50	14	9	RUS	C	A1A		C-beacon
VERON	7044,0	14.15	16	9		UiPTR	F1B		Ptr
VERON	7046,0	19.39	9	9	UKR	UiMUX	PSK	2600	12 MPSK AT3004-D, Navy, Sevastopol
VERON	7049,0	14.17	16	9		UiPTR	F1B		Ptr
VERON	7077,5	19.56	30	9	UKR	D	A1A		D-beacon, 23/9 24/9 also heard
VERON	7114,0	21.32	15	9		UiPtr	F1B	200	
VERON	7117,0	17.30	14	9		UiPTR	F1B		Fast Revs
VERON	7117,0	vt	vd	9		UiPtr	F1B	1k	Most of time idling
VERON	7117,0	19.24	9	9	RUS	REA4	F1B	1000	Russian Airforce Moscow
VERON	7117,0	19.35	3	9	RUS	REA4	F1B	1000	Ptr/Revs, Airforce Moscow
VERON	7117,0	18.41	27	9	RUS	REA4	F1A		27180 99900 26140 22212 REA4+Revs
VERON	7120,0	18.45	24	9	SOM	R.Har	A3E		speech
VERON	7132,0	19.39	3	9		UiMUX	PSK	2600	12 MPSK AT3004-D
VERON	7132,0	19.40	9	9	RUS	UiMUX	PSK	2600	12 MPSK AT3004-D, Voronez
VERON	7133,00	20.00	30	9	RUS	P	A1A		P-beacon,
VERON	7170,0	22.24	7	9					Frequency Hopper
VERON	7190,0	20.38	14	9					Frequency Hopper
VERON	7198,0	17.08	25	9	UKR	UiMUX	PSK	2600	12 MPSK AT3004-D
VERON	14210,0	17.45	14	9		UiBC	A3E		SE Asian speech; S6
VERON	14212,0	12.16	5	9		UiILL	A3E		female, computer voice, code messages
VERON	14220,0	08.15	4	9		UiPTR	F1B		Ptr
VERON	14278,0	10.05	27	9	CIS	UiCW	A1A		5F
VERON	14280,0	10.15	17	9		UiCW	A1A		Dotter
VERON	14320,0	10.25	2	9		UiCAR	NON		carrier, S-9
VERON	18090,5	12.24	18	9		UiPTR	F1B		Idling
VERON	18107,0	08.45	6	9	RUS	RDL	F1A		RDL 41594 74784 k, legal operation
VERON	18107,0	08.31	9	9	RUS	RGT77	F1A		XXX RGT77 14025 18416 WSTREuNYJ
VERON	18107,0	08.36	9	9	CIS	WEGI	F1A		XXX WEGI 15384 69000 OSTROWNOJ
VERON	18107,0	12.58	20	9	RUS	RDL	F1A		RDL 48749 27870 k legal operation
VERON	18107,0	13.00	20	9	RUS	RDL	F1A		RDL 25108 59203 k
VERON	21001,3	12.12	18	9	RUS	UiPTR	F1B		Ptr
VERON	21100,0	14.29	26	9		UiILL	J3e-U		English (not native) commercial tfc, male
VERON	21193,0	12.37	14	9					Frequency Hopper
VERON	21246,0	10.35	15	9					Frequency Hopper
VERON	21361,0	13.02	8	9					Frequency Hopper
VERON	21404,0	10.19	15	9		OTHR	FMCW	35k	20sps
VERON	21438,0	08.21	6	9	RUS	RCV	A1A		RIP90 de RCV QTC 317 Nawarea 030
VERON	21438,0	08.37	17	9	RUS	RCV	A1A		RFH70 de RCV QSA? K (calls)
VERON	21438,0	15.15	17	9	RUS	RCV	A1A		RIP90 de RCV QTC 349 Nawip 033
VERON	21438,0	12.10	23	9	RUS	RCV	A1A		RFH70 de RCV QYT4 QSA4 k
VERON	21438,0	07.50	10	9	RUS	RCV	A1A		RIP90 DE RCV QTC 328 78 8 1950 328 BT
VERON	21438,0	09.52	28	9	RUS	RCV	A1A		RGV82 DE RCV RPT 991 115 28 1320

The monitoring team of IARU Region 1

Many thanks for your interest!

credits:

Wavecom Elektronik – Buelach – Switzerland

SSB-Electronic – Iserlohn – Germany

BAZ – Special Antennas – Bad Bergzabern - Germany

go2SIGNALS - PLATH AG – Bern - Switzerland

German PTT (BNetzA = Federal Network Agency)

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