



International Amateur Radio Union

Region 1



Monitoring System

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The monthly newsletter for Region 1

May 2013

The 26 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: E15DD - Steve ++ KARS: 9K2RR – Faisal ++
++ MARL: 9H1M – Dominic ++ MRASZ: HA7PL - Laci ++ NARS: 5N9AYM – Yusuf ++ NRRL: LA4EU – Hans Arne ++
++ OEVSU: OE3GSA – Gerd ++ PZK: SP3SUZ – Wladyslaw ++ RAL: OD5RI – Riri ++ REP: CT4AN – Jose ++
++ RSGB: G4BOH - Chris ++ SARL: ZS1FCS - Fred ++ SRAL: OH2BLU - Pekka ++ SSA – Ullmar ++ UBA: ON4VJ - Johny ++
++ URE: EA5DY - Salvador ++ 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) ++ 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. New members in our team (now 26 members!)

YO9RIJ Petrica Stolnicu, is the vice president of A.R.R. the new radioamateur society (**Asociatia Radioclubul Romaniei = Romanian Radioclub Association**). ARR is a non-official member for the present. Anyway he will give us his support. Welcome to our team dear Petrica!



Petrica in front of his RIG

The new Swedish SSA MS-Coordinator is SWL SM5-1252, **Ullmar Qvick**. Welcome to our family, dear Ullmar!.

Ullmar is a member of:

SWARL - Arctic Radio Club - SSA – SWL: SM5-1252 NRK & NDL (local clubs) Sweden's DX Federation



SWL Ullmar Qvick



A very diligent member of our team is CT2IWW, Paulo. His excellent observations and Intruder-Logger entries are an important aid for our work. Many thanks dear Paulo!

2. Iran OTH Radar daily on 10 m in May 2013 – no change

The Iran Radar was daily active on 26000 – 30000 kHz transmitting bursts with 307 and 870 sps, 60 kHz wide and often jumping. The splatters covered 700 kHz and more. An earlier complaint by the Swiss BAKOM was not regarded. **The German BNetzA filed a complaint, too – no change.**

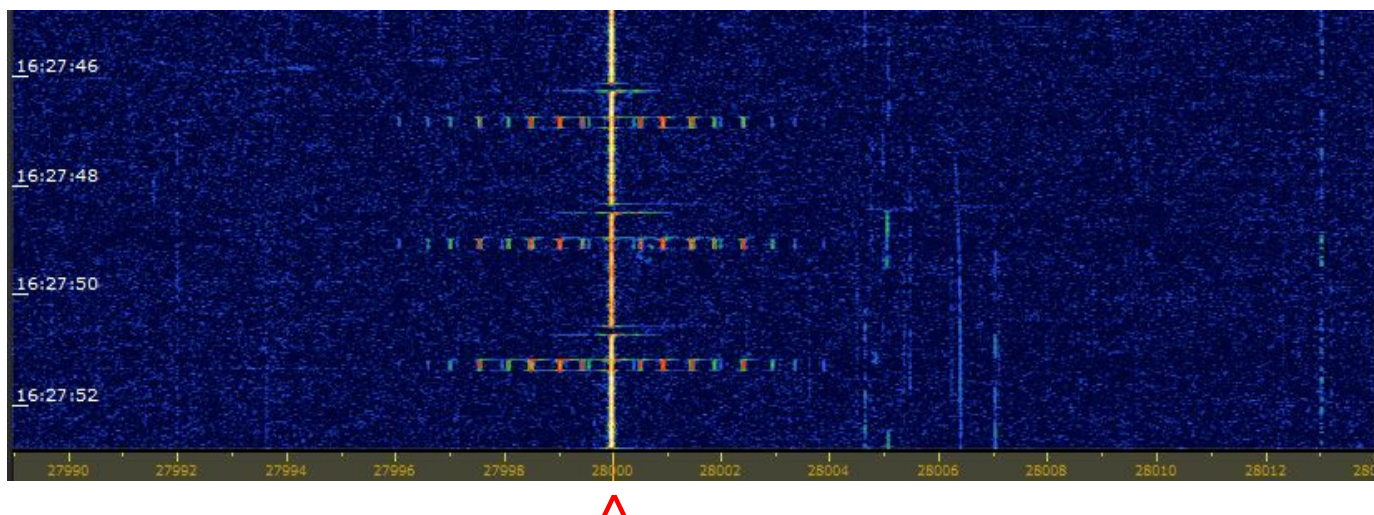
3. Ukraine Military on 21 MHz

Ukraine military used 21058 – 21060 and 21062 kHz for digital traffic daily. Details: 12 x 120 Bd, BPSK, system AT3004D, location: Odessa. **The German PTT sent an official complaint to the Ukraine authority.**

4. Hyperbolic navigation on 28000.0 kHz

HB9CET and DK2OM found a hyperbolic navigation system on 28000.0 kHz on May 8th, 9th and 10th. Parameters: Carrier and 7 tones on each sideband, master and slaves (BRAS-3 or RS-10?). Bearing: 120 deg. from Germany, possibly Middle-East. **Screenshot: DK2OM with Perseus**

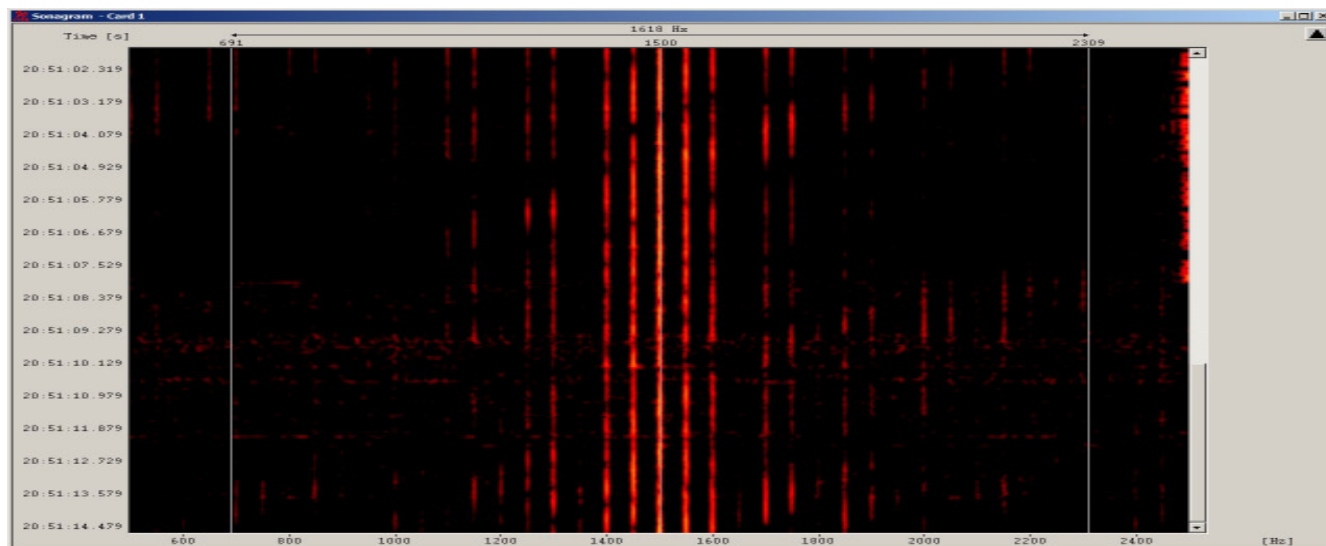
recording by DK2OM: <http://www.iarums-r1.org/iarums/sound/28000-hypnav.wav>



5. Russian Airforce on 80 m

The Russian Airforce Moscow can be heard on 3531.0 kHz every evening. Parameters: Carrier with spurious emissions, ident “**REA4**” always at 2040 utc in A1A. **Just for info!**

Screenshot: DK2OM with W-Code – carrier visible on 1500 Hz AF – spurious emissions above and below



6. Stanag 4285 - UK MIL transmission on 14238.6 kHz

A radioamateur found a Stanag4285 on 14236.8 kHz and gave DK2OM an info on May 24th. DK2OM informed G4BOH (RSGB MS-Coordinator), because the MIL Stanag was located at Norwich, England.

7. Russian AT3004D (CIS12) on 14026 kHz and digital emissions on 7197 kHz (by Radio Rossii)

The German PTT BNetzA filed official complaints.

8. Radio Sri Lanka QRT on 7190 kHz

According to info received from Victor, 4S7VK, Hon. Secretary, Radio Society of Sri Lanka, Friday, May 31, 2013 was the last day on which the Sri Lanka Broadcasting Corporation (SLBC) used the amateur radio frequency 7190 kHz

Sources: Southgate, VU2JOS – Thanks for forwarding: DL4KE (Juergen) and DF5SX (Wolfgang).

9. 7100 – Radio Ethiopia and Radio Eritrea

Radio Ethiopia disturbed Radio Eritrea by white noise on 7100 kHz daily at 1630 utc.

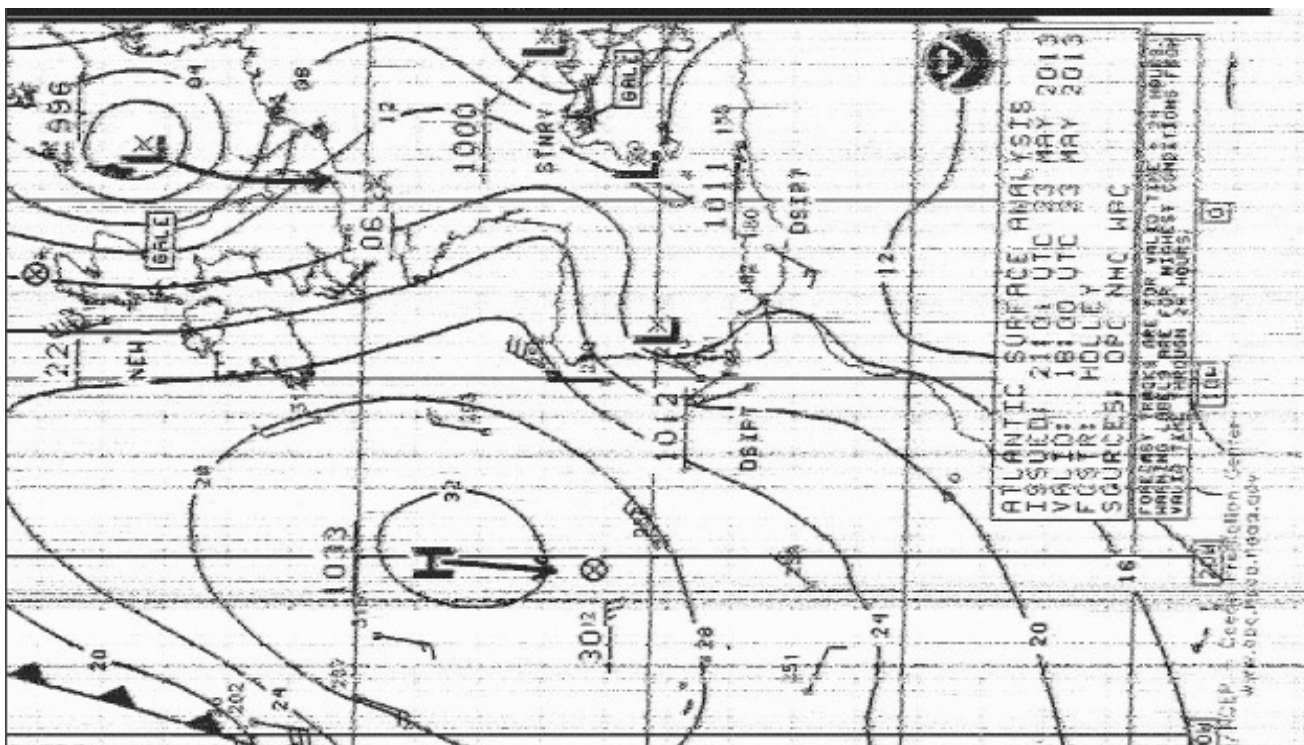
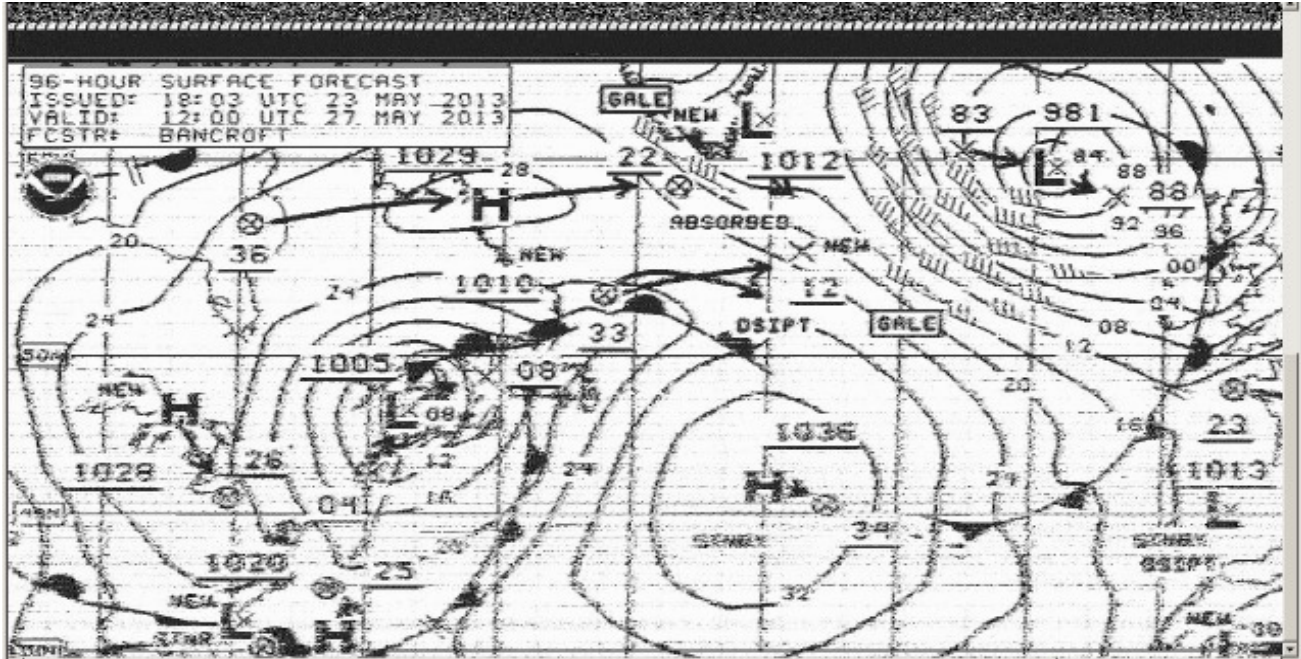
10. Weatherfax on 14001.9 kHz disabled – a quick solution

DK2OM detected a weatherfax on 14001.9 kHz (center QRG) on May 23rd at 2100 utc and later.

Parameters: Drumspeed 120 rpm, IOC 576, shift 800 Hz. Location: US Coast Guard Boston, Massachusetts. Wolf informed Jack Seitner – AA3GZ – by E-Mail, and Jack phoned the Coast Guard.

Result: The transmission QRG was corrected at once. **Many thanks dear Jack – a quick success for Amateur Radio in the Regions 1 and 2!** --- US Coast Guard: <http://www.cpc.ncep.noaa.gov>

Atlantic charts and gale warnings from the US Coast Guard on May 23rd – received with W-Code (DK2OM)



11. Homepage IARU Region 1

Homepage IARUMS Region 1

Homepage IARUMS Region 2

Homepage IARUMS Region 3

Intruderlogger Region 1

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

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

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

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

<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 = 5 cyrillic lettergroups

ARSK MONITORING OVERVIEW FOR MAY 2013

Slightly more intruders were heard this month, particularly broadcasts in the daytime in KiSwahili, English and Luganda on 7195 kHz which are apparently from Uganda. Radio Hargeisha continued on 7120 kHz. Broadcasts from Khartoum were either at a much lower power or had ceased, but weak signals were heard on 7200 kHz. VOBM from Eritrea and radio Ethiopia from Addis Ababa were also very weak or have ceased to operate, but VOBM appeared to be on 7100 and 7175 kHz at different times. Possibly military nets were heard on 7000 and 7008 kHz. Identification was not possible.

E.H.M. Alleyne, 5Z4NU

ARSK – Kenya – 5Z4NU (Ted)

H'd by	kHz	UTC	dd	mm	ITU	Identity	Mode	Details
ARSK	7000.0	vt	*	5	East Africa	UiPHONE	J3E	Military? * 17,22,
ARSK	7008.0	0630	28	5	East Africa	Military?	J3Eu	Some English. Military?
ARSK	7075.0	0605	19	5	?	Unknown	J3E	unknown language.
ARSK	7100.0	1715	27	5	ERI	VOBM	A3E	Broacast, VOBM.
ARSK	7120.0	vt	dly	5	R. of Som.	Hargeisha	A3E	Radio Hargeisha broadcast
ARSK	7170.0	1510	23	5	?	unknown	J3Eu	Chinese language.
ARSK	7175.0	0900	23	5	ERI?	UiBC	A3E	VoBM, Eritrea?
ARSK	7195.0	vt	*	5	UGA	UiBC	A3E	*23,27,28, 29, 30,31. B'cast in KiSwahili, Luganda & English, to about 1200Z.

DARC 1 – Germany – DG0JBJ (Mario)

DG0JBJ (Mario) observed 11 OTH radars on 20 m, 65 OTH radars on 15 m and 30 OTH radars on 10 m (not included the numerous jumping Iran OTH radars) in May 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	2005	19	05	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	05	F		QPSK	100	100	BC-PSK – radio navigation - Nantes
DK2OM	1896,5	ady	dly	05	D		PSK8	2400	2400	Stanag4285 – 600 bps long – German Navy
DK2OM	3500,0	2140	01	05	E		USB			Spanish fishery – also: 13.05.2013 at 2140 utc
DK2OM	3500,0	1852	16	05	RUS		FMCW		40k	OTHR – 43.5 sps – 3500 – 3540

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
									40k	kHz – also: 3560 – 3600 – Makhachkala – Caspian Sea
DK2OM	3500,0	0630	30	05	HOL		USB			Dutch fishery
DK2OM	3500,1	2021	28	05	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3502,2	1948	20	05	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3502,9	2011	08	05	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3503,5	1850	29	05	G	no ITU	FSK8	125	1750	ALE – “XSS” “XPU” “XJR” – British MIL Tascomm – vt, daily - legal!
DK2OM	3503,8	2150	15	05	ISR		PSK4 PSK8	75 2400	2400 2400	hybrid modem – ISR Navy – PSK4 parallel and PSK8 serial
DK2OM	3505,5	1924	11	05	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3511,5	1922	30	05	UKR		PSK2	120	2600	AT33004D – traffic and submode idle - west of Kiev
DK2OM	3512,0	1925	16	05	UKR		PSK2A	120	2600	AT3004D – East of Kiev
DK2OM	3520,0	2030	31	05	RUS		FMCW		50k	OTHR – 43.5 sps – 3520 – 3570 kHz - Makhachkala – Caspian Sea
DK2OM	3520,0	1940	06	05	RUS		FMCW		30k 40k	OTHR – 43.5 sps – 3520 – 3550 kHz – also: 3760 – 3800 – Makhachkala – Caspian Sea – also: 09.05.2013 at 1815 utc
DK2OM	3520,0	1933	02	05	RUS		USB			Russian women
DK2OM	3522,0	2010	10	05	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3522,0	1923	24	05	F		PSK8	2400	2400	Stanag4285 – 600 bps long – area of Brest
DK2OM	3525,0	2029	08	05	E		USB			Spanish fishery with vocoder CRY 2001
DK2OM	3527,0	2000	03	05	RUS		F1B	50	200	Severomorsk – daily, often idle
DK2OM	3530,0	1910	22	05	HOL		USB			Dutch fishery
DK2OM	3531,0	2012	10	05	RUS	REA4	N0N			carrier with spurious emissions, RUS airforce Moscow, ident: 2040 utc - daily
DK2OM	3535,0	1924	30	05	RUS		FMCW		35k 40k	OTHR – 43.5 sps – 3535 – 3570 kHz - also: 3810 – 3850 kHz – Makhachkala – Caspian Sea
DK2OM	3541,0	1959	04	05	F		USB			French fishery
DK2OM	3544,8	1904	28	05	TUR		PSK8	2400	2400	Stanag4285 - Ankara
DK2OM	3550,0	0600	dly	05	F		A3E			French amateurs not respecting the bandplans
DK2OM	3550,0	vt	vd	05	ALG		FSK8	125	1750	ALE, “IU50” “IU52” “FN50”
DK2OM	3553,8	ady	dly	05	TUR		PSK8	2400	2400	Stanag4285 – TUR MIL - Ankara
DK2OM	3570,0	1929	04	05	RUS		PSK2A	120	2600	AT3004D - Moscow
DK2OM	3572,0	2140	24	05	RUS		F1B	75	250	area of Velikiye Luki
DK2OM	3580,0	1949	08	05	RUS		PSK2A	120	2600	AT3004D – Kaliningrad – HAM PSK31 disturbed!
DK2OM	3585,0	2000	dly	05	TWN	HLL	F1C			120 rpm, IOC 576, Wxfax - daily legal!
DK2OM	3587,0	vt	vd	05	E	no ITU	FSK8	125	1750	ALE, “TVV” “TXX” - Spanish Guardia Civil
DK2OM	3593,8	ady	dly	05	TUR		PSK8	2400	2400	Stanag4285 – 600 bps long
DK2OM	3595,0	vt	dly	05	D		FSK8	125	1750	ALE – German customs
DK2OM	3596,0	1936	11	05	RUS		PSK2A	120	2600	AT3004D - Kaliningrad
DK2OM	3597,0	vt	dly	05	D		PSK8	2400	2400	Link11 SLEW
DK2OM	3601,0	1839	29	05	E		USB			Spanish fishery with vocoder CRY2001
DK2OM	3617,0	vt	dly	05	HRV	9A5EX	FSK8	125	1750	ALE, “9A5EX” – HAM-ALE - just for info
DK2OM	3622,5	1800	dly	05	J	JMH	F1C			Tokyo Meteo – 120 rpm – IOC576 – daily, legal!!!
DK2OM	3710,2	1920	22	05	F		PSK4	75	2300	Link11-CLEW – St. Tropez
DK2OM	3756,0	ady	dly	05	UKR		A3E			UKR – pip – 14 tones – radio navigation system – BRAS-2/RS-10
DK2OM	3760,0	2003	07	05	RUS		FMCW		40k 40k	OTHR – 43.5 sps – 3760 – 3800 kHz – Makhachkala – Caspian Sea – also: 4010 – 4050 kHz

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	3761,5	vt	vd	05	POL		FSK8	125	1750	ALE, “NI9” “PL7” “AB2” – Polish MIL
DK2OM	3774,0	0600	09	05	E	names	USB			Spanish fishery with vocoder CRY2001 - daily
DK2OM	3780,0	1900	02	05	RUS		FMCW		35k 30k	OTHR – 43.5 sps – 3780 – 3815 kHz – also: 3865 – 3895 kHz - Makhachkala Caspian Sea
DK2OM	3782,0	2200	06	05	POR	CTP	F1B	75	850	POR Navy headquarter Lisbon – disturbed by Russian OTH radar on 06.05.2013 at 2200 utc
DK2OM	3791,0	vt	vd	05	D	DK0ESD	FSK8	125	1750	ALE, “DK0ESD” – just for info!
DK2OM	7000,0	vt	12	05	I		FSK8	125	1750	ALE, “209” “2096” “2098” “2099” “DIAL4”
DK2OM	7000,0	2010	20	05	ISR		N0N			long lasting carrier – Israel – also: 25.05.2013 at 2130 utc
DK2OM	7000,0	1717	26	05	CHN		FMCW		20k	Chinese OTH radar – 45.45 sps – 7000 – 7020 kHz
DK2OM	7000,0	1702	27	05	Sca		USB			Scandinavian pirates
DK2OM	7000,0	1854	29	05	F		USB			pirates in French voice, engine noise audible
DK2OM	7001,5	2030	14	05	ALG		PSK4	62.5	1750	Clover 2000 – South Algeria
DK2OM	7008,0	1952	27	05	RUS		F1B	75	250	St. Peterburg
DK2OM	7038,7	ady	dly	05	UKR	D	A1A			Cluster beacon – Sevastopol RUS Navy – “RCV”
DK2OM	7038,8	---	---	05	RUS	P	A1A			Cluster beacon – Kaliningrad RUS Navy – “RMP”
DK2OM	7038,9	ady	dly	05	RUS	S	A1A			Cluster beacon – Severomorsk RUS Navy – „RIT“
DK2OM	7039,0	ady	dly	05	RUS	C	A1A			Cluster beacon - Moscow RUS Navy - “RIW”
DK2OM	7039,1	---	---	---	KGZ	A	A1A			Cluster beacon – Bishkek RUS Navy – “RJH25”
DK2OM	7039,2	ady	dly	05	RUS	F	A1A			Cluster beacon - Vladivostok RUS Navy - “RJS”
DK2OM	7039,3	ady	dly	05	RUS	K	A1A			Cluster beacon - Petropavlovsk Kamchatskiy - RUS Navy - Pacific fleet - “RCC”
DK2OM	7039,4	ady	dly	05	RUS	M	A1A			Cluster beacon – Magadan RUS Navy – „RTS“
DK2OM	7039,95	ady	dly	05	I	IZ3DVW	A1A			IZ3DVW – uncoordinated beacon, daily, all day
DK2OM	7040,0	vt	dly	05	F	F6BAZ	FSK8	125	1750	ALE, “F6BAZ” – just for info
DK2OM	7040,5	vt	dly	05	HRV		FSK8	125	1750	ALE, “9A5EX” “9A0ALE” – just for info
DK2OM	7049,5	2006	10	05	HRV	9A0ALE	FSK8	1250	1750	Amateur ALE, just for info!
DK2OM	7054,0	vt	dly	05	RUS		F1B	50	200	CIS50-50 - RUS Navy Moscow - daily
DK2OM	7055,5	vt	dly	05	TUR		FSK8	125	1750	ALE, “145” “168” – NE of Turkey – area of Black Sea
DK2OM	7070,0	vt	vd	05	GEO	no ITU	FSK8	125	1750	ALE, “MV” “244” “686” “334” “204”
DK2OM	7099,5	vt	vd	05	HRV	9A0ZG	FSK8	125	1750	ALE, “9A0ZG” “9A5EX” “9A0OS” – just for info!
DK2OM	7100,0	1630	26	05	ETH ERI		A3E			white noise from Radio Ethiopia disturbing Radio Eritrea – also: 27.05.2013 at 1658
DK2OM	7102,0	vt	vd	05	HRV SUI	9A0ALE	FSK8	125	1750	ALE, “9A0ALE” “HB9MHB” “9A0ZG” – just for info!
DK2OM	7105,0	2240	20	05	TWN CHN		A3E			Sound of Hope – Taiwan and Chinese music jammer - daily
DK2OM	7105,0	vt	dly	05	TUN		A3E			RTV Tunisia - intermodulation
DK2OM	7110,0	vt	dly	05	HRV	9A0ALE	FSK8	125	1750	ALE, “9A0ALE” – just for info
DK2OM	7120,0	1747	18	05	SOM		A3E		9k	Radio Hargaysa Somalia, daily
DK2OM	7173,0	0640	06	05	F	F4FRC	OFDM	50	2000	OFDM 42 – HAM digi SSTV – just for info!
DK2OM	7185,5	vt	dly	05	D HRV		FSK8	125	1750	ALE, “9A5EX” “DK0ESD” just for info - daily
DK2OM	7188,0	2016	30	05	RUS		A1A			only the word “beacon” – no

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										ident! – NE of Moscow
DK2OM	7197,0	vt	dly	05	TUR		FSK8	125	1750	ALE, “8241” “206102” “8151” “3021” – Turkish Sivil Avunma – Turkish Civil Defense - source: DL8AAM
DK2OM	10100,8	ady	dly	05	D		F1B	50	450	Baudot - German Weatherservice – legal!
DK2OM	10112,0	ady	dly	05	TUR		PSK8	2400	2400	Stanag4285 – 600 bps long – NE of Izmir
DK2OM	10113,0	vt	dly	05	TUN	no ITU	FSK8	125	1750	ALE, “TUD”
DK2OM	10114,8	0620	15	05	RUS		F1B	100	1000	CIS14 – Penza - daily
DK2OM	10118,0	0629	22	05	RUS		F1B	75	250	Moscow
DK2OM	10120,0	1643	06	05	RUS		PSK2A	120	2600	AT3004D - Samara
DK2OM	10120,0	0627	15	05	E		USB			Spanish fishery
DK2OM	10125,0	vt	vd	05	CHN		FSK8	125	1750	ALE, “277” “278” – China
DK2OM	10130,0	vt	dly	05			FSK8	125	1750	Thales 3000
DK2OM	10131,0	0912	22	05	RUS		F1B	75	250	weak signal
DK2OM	10131,5	0744	15	05			F1B	50	200	
DK2OM	10131,8	1735	16	05	SNG		PSK8	2400	2400	MIL-188-110A – 600 bps long - Singapur
DK2OM	10136,0	1856	02	05	RUS		F1B	50	200	Far East Russia
DK2OM	10145,5	vt	vd	05	HRV S / D	9A5EX	FSK8	125	1750	ALE, “9A5EX” “SM5VRH” “DK0ESD” - just for info
DK2OM	14000,0	1630	07	05	FEa		USB			far east pirates – “Sayed” - INS?
DK2OM	14001,0	vt	dly	05	CHN		FSK8	125	1750	ALE, “397”
DK2OM	14001,9	2100	23	05	USA		WXFAX		800	WXFAX – 120 rpm, IOC 576, NOAA.GOV – USA – Coastguard Boston - Atlantic charts
DK2OM	14008,0	1100	02	05	RUS		F1B	50	250	Moscow – also: 08.05.2013 at 0600 utc
DK2OM	14026,0	0902	07	05	RUS		PSK2A	120	2600	AT3004D – Moscow – traffic and submode idle - daily
DK2OM	14036,3	0937	23	05			MFSK	40	1400	CIS36 = CROWD36
DK2OM	14050,0	0630	15	05	RUS		F1B	75	250	Novosibirsk
DK2OM	14060,0	vt	vd	05	ISR		FSK8	125	1750	ALE, “AAA” - Israel
DK2OM	14081,0	0716	09	05	RUS		F1B	75	250	Moscow
DK2OM	14109,0	vt	vd	05	ISR	4X1	FSK8	125	1750	ALE, “4X1” “CT2IXQ” – just for info!
DK2OM	14118,0	1030	09	05	RUS		PSK2A	120	2600	AT3004D – area of Velikiye Luki – traffic and submode idle
DK2OM	14192,0	0951	01	05	RUS		F1B	50	200	RUS Navy Kaliningrad – often daily
DK2OM	14205,0	1803	03	05		no ITU	FSK8	125	1750	ALE, “505” “822” – 60 deg. from DL - CHN ?
DK2OM	14221,0	1933	06	05	RUS		F1B	50	200	Moscow – also: 27.05.2013 at 2024 utc
DK2OM	14236,9	0600	24	05	G		PSK8	2400	2400	Stanag4285 – Great Britain – area of Norwich – also: 30.05.13 at 0800 utc
DK2OM	14240,0	0720	15	05	RUS		PSK2	120	2600	AT3004D - Penza
DK2OM	14242,0	1420	31	05	RUS		PSK2A	120	2600	AT3004D - Moscow
DK2OM	14263,0	0612	31	05	HOL		FSK4	75	600	ship, North Sea, NW of HOL
DK2OM	14265,0	vt	vd	05	TUR		FSK8	125	1750	ALE, “526”
DK2OM	14265,0	0635	01	05	RUS		PSK2A	120	2600	AT3004D – traffic and idle - Moscow
DK2OM	14272,0	1440	17	05	RUS		PSK2A	120	2600	AT3004D – area of Moscow – also: 22.05.2013 at 1739 utc
DK2OM	14280,0	Wednes day	vd	05	UKR		A3E			Ukraine secret service SZRU – female voice spelling encrypted msgs
DK2OM	14291,0	0737	15	05			A1A			encrypted -
DK2OM	14292,0	0622	20	05			A1A			encrypted CW
DK2OM	14295,1	ady	dly	05	TJK		A3E			3 rd from Radio Tajik on 4765 kHz
DK2OM	14306,0	0638	01	05	RUS		PSK2A	120	2600	AT3004D – area of Smolensk
DK2OM	14317,0	0725	09	05	UKR	RCV	A1A			RUS naval base Sevastopol - encrypted, cyrillic letters

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	14344,7	2138	07	05	CHN		PSK8	2400	2400	MIL-188-110A variant – daily, 600 bps short – 14344.650 kHz
DK2OM	14346,0	vt	vd	05	HRV RUS D		FSK8	125	1750	ALE, “9A0ZG” “RX3ARZ” “DK0ESD” – just for info
DK2OM	14346,0	ady	dly	05	THA	HS0ZEA	A1A			HS0ZEA – beacon – every 5 minutes – 14345.956 kHz – just for info
DK2OM	14349,0	2130	07	05	CHN		FMCW		10k	Chinese burst radar – 47.6 sps
DK2OM	18075,0	1953	10	05	CYP		FMCW		20k	OTH Radar Cyprus – 50 sps
DK2OM	18085,0	0919	22	05	CYP		FMCW		20k	OTH Radar Cyprus – 50 sps
DK2OM	18107,0	vt	vd	05	RUS	RDL	F1B	50	200	Moscow – idle and traffic – Russian navy – various days and times – legal operation
DK2OM	18130,0	0702	08	05	RUS		F1B	100	1000	harmonic from 9065 kHz (500 Hz shift) – area of Syktyvkar
DK2OM	18150,5	0624	20	05	RUS		F1B	1000	2000	harmonic from 9075.25 kHz - Kaliningrad
DK2OM	18170,0	0647	20	05	CYP		FMCW		20k	OTH Radar Cyprus – 50 sps
DK2OM	19060,2	0700	08	05	TJK		A3E			Radio Tajik – 4 th from 4765 – just for info!
DK2OM	21000,0	1958	20	05	B		USB			Brazilian pirates – Rio de Janeiro with North Brazil
DK2OM	21000,0	0630	29	05	SDN		USB			MFA Sudan with SDN emba Yemen
DK2OM	21000,0	1910	31	05	CYP		FMCW		20k	OTH Radar Cyprus – 50 sps
DK2OM	21002,2	0629	29	05	SDN		F1B	100	170	Pactor 1 encrypted – MFA Sudan – Khartoum with emba Yemen
DK2OM	21058,0	1449	07	05	UKR		PSK2A	120	2600	AT3004D – Odessa UKR MIL also: 09.05.2013 at 0733 utc and later daily
DK2OM	21060,0	0746	04	05	UKR		PSK2A	120	2600	AT3004D – Odessa UKR MIL – also: 22.05.2013 at 0710 utc
DK2OM	21062,0	1430	22	05	UKR		PSK2A	120	2600	AT3004D - Odessa UKR MIL
DK2OM	21064,0	0741	07	05	UKR		PSK2A	120	2600	AT3004D – Odessa UKR MIL
DK2OM	21096,0	vt	dly	05	INS	YD00XH	FSK8	125	1750	ALE, “YD00XH3” – daily, various times - just for info!
DK2OM	21100,0	1829	20	05	E		USB			Spanish fisherman and wife, same as 21450 – later 21480!
DK2OM	21122,2	1526	07	05	FEa		USB			Far East pirates, INS?
DK2OM	21145,0	vt	dly	05	MRC		FSK8	125	1750	ALE, “B301”, “C3”, “IR4” “T4” “E4” “A2” “CD” “K3”
DK2OM	21170,0	0726	18	05						frequency hopper
DK2OM	21190,0	0638	10	05	TUR		FMCW		20k	OTH Radar NW-Turkey – 50 sps
DK2OM	21210,0	1504	30	05	AUS		FMCW		20k	OTH Radar JORN bursts
DK2OM	21240,0	0638	10	05	AUS		FMCW		10k	OTH Radar JORN – various sps
DK2OM	21350,0	1052	17	05	CYP		FMCW		20k	OTH Radar Cyprus – 50 sps
DK2OM	21388,0	1115	21	05	CHN		FMCW		10k	OTH radar with 47 sps and 3 sec bursts
DK2OM	21400,0	1640	26	05	CYP		FMCW		20k	OTH Radar Cyprus – 50 sps
DK2OM	21400,0	0738	07	05	RUS		F1B	50	2000	harmonic from 5350 kHz – area of Moscow - daily
DK2OM	21409,5	0645	08	05	RUS		F1B	100	2000	CIS14 – harmonic from 10704.75 – Jekaterinburg - daily
DK2OM	21438,0	1345	16	05	UKR	RCV	A1A			RIP90 de RCV - RUS Navy Sevastopol - daily
DK2OM	21440,8	0800	09	05	KOS		PSK8	2400	2400	serial modem – area of Kosovo - daily
DK2OM	21442,0	1403	22	05	RUS		PSK2A	120	2600	AT3004D – Moscow – also: 23.05.2013 at 0650 utc
DK2OM	21445,0	1115	21	05	CHN		FMCW		10k	OTH radar with 83 sps and 3 sec bursts
DK2OM	21446,0	0641	10	05	THA	HS0ZEA	A1A			HS0ZEA beacon – every 5 minutes - just for info!
DK2OM	21450,0	1827	20	05	E		USB			Spanish fisherman and wife
DK2OM	25000,0	ady	dly	05	FIN		A3E			time signal Helsinki – just for info – carrier on 25000 – dots on 25001 and 24999 – daily, all day

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	28000,0	vt	dly	05	B		A3E			28000 – 28325 numerous Brazilian CBers
DK2OM	28000,0	vt	dly	05	CIS		F3E			28000 – 29700 numerous CIS taxi nets
DK2OM	28000,0	1450	09	05	AGL ?		USB			pirates in Portuguese language, engine noise audible – 175 deg. – also: 10.05.2013 at 1510 utc
DK2OM	28000,0	1610	10	05	MEa		A3E		8000	carrier on 28000.0 and dots on both sidebands (master and slave) – 8 kHz wide – 120 deg from DL – hyperbolic navigation system (BRAS-3 or RS-10)
DK2OM	28000,0	0657	19	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28000,5	1920	14	05	B		USB			Brazilian CBers with roger-beep, also: 20.05.2013 at 1758 utc – calling “Canarias”
DK2OM	28003,0	1923	10	05						frequency hopper
DK2OM	28005,0	1618	01	05	B		A3E			Brazilian CBers
DK2OM	28015,0	1752	10	05	B		A3E			Brazilian CBers
DK2OM	28025,0	1751	10	05	B		A3E			Brazilian CBers
DK2OM	28035,0	1730	04	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28035,0	1752	10	05	B		A3E			Brazilian CBers
DK2OM	28035,0	0910	21	05	POR		A3E			Portuguese pirates
DK2OM	28035,0	0732	23	05	I		A3E			Italian CBers
DK2OM	28040,0	0658	19	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28040,1	1703	31	05	POR		F1B	51	320	F1B bursts – west of Lisbon
DK2OM	28045,0	1615	01	05	B		A3E			Brazilian CBers
DK2OM	28055,0	1630	01	05	B		A3E			Brazilian CBers
DK2OM	28065,0	1615	01	05	B		A3E			Brazilian CBers
DK2OM	28065,0	0906	23	05	E		A3E			Spanish CBers
DK2OM	28075,0	1752	10	05	B		A3E			Brazilian CBers
DK2OM	28085,0	1629	01	05	B		A3E			Brazilian CBers
DK2OM	28090,0	0940	05	05	CYP		FMCW		20k	OTH Radar Cyprus – 25 sps
DK2OM	28095,0	1635	20	05	B		A3E			Brazilian CBers
DK2OM	28100,0	1954	14	05	POR		F1B	51	320	F1B bursts - 28100.010 kHz - west of Lisbon
DK2OM	28100,0	1920	08	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28100,1	1954	14	05	POR		F1B	51	320	F1B bursts - 28100.100 kHz - west of Lisbon
DK2OM	28100,2	1953	14	05	POR		F1B	51	320	F1B bursts - 28100.160 kHz - west of Lisbon
DK2OM	28100,8	ady	dly	05	POR		F1B	51	320	F1B bursts - 28100.800 kHz - west of Lisbon
DK2OM	28102,0	ady	dly	05	POR		F1B	51	320	F1B bursts – 28102.000 kHz - west of Lisbon
DK2OM	28105,0	1625	01	05	B		A3E			Brazilian CBers
DK2OM	28105,0	1533	07	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28105,0	0914	21	05	POR		A3E			Portuguese pirates
DK2OM	28115,0	1908	02	05	RUS		F3E			taxi net– area of Moscow – Oleg is called by a woman – daily, all day – very busy net
DK2OM	28115,0	1624	01	05	B		A3E			Brazilian CBers
DK2OM	28120,0	1535	07	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28125,0	1940	10	05	B		A3E			Brazilian CBers
DK2OM	28130,0	1534	07	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28130,0	1537	07	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28135,0	vt	dly	05	RUS		F3E			taxi - Caucasus
DK2OM	28135,0	1921	08	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28135,0	1947	10	05	B		A3E			Brazilian CBers
DK2OM	28143,0	1735	04	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28144,6	0929	21	05	POR		A3E			Portuguese pirates
DK2OM	28145,0	1700	05	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28145,0	1948	10	05	B		A3E			Brazilian CBers
DK2OM	28145,0	vt	dly	05	RUS		F3E			taxi - Caucasus
DK2OM	28145,0	0735	23	05	E		A3E			Spanish CBers
DK2OM	28146,0	1418	19	05	I		FSK8	125	1750	ALE, “IZOETE” “IW0DJC” – just for info!

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	28150,0	1701	05	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28155,0	1627	01	05	B		A3E			Brazilian CBers
DK2OM	28155,0	1617	08	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28155,0	1619	08	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28155,0	0840	23	05	E		A3E			Spanish CBers
DK2OM	28160,0	1732	04	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28165,0	1949	10	05	B		A3E			Brazilian CBers
DK2OM	28170,0	1725	04	05	IRN		FMCW		60k	OTH Radar – 870 sps
DK2OM	28175,0	1632	01	05	B		A3E			Brazilian CBers
DK2OM	28175,0	1710	04	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28175,0	0652	12	05	I		A3E			Italian CBers
DK2OM	28175,0	0924	21	05	CHN		F3E			SE China
DK2OM	28175,0	1527	23	05	E		A3E			Spanish CBers
DK2OM	28184,0	1728	04	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28184,8	1604	31	05	SAm		F1B	302	202	data bursts – South America – daily, all day
DK2OM	28185,0	1623	01	05	B		A3E			Brazilian CBers
DK2OM	28185,0	2000	22	05	SAm		F1B	302.0	202	data bursts – South America – daily, all day
DK2OM	28190,0	1714	04	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28195,0	1950	10	05	B		A3E			Brazilian CBers
DK2OM	28200,0	1646	20	05	POR		F1B	51	320	F1B bursts - west of Lisbon
DK2OM	28200,0	1710	04	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28205,0	1753	10	05	B		A3E			Brazilian CBers
DK2OM	28205,0	1712	04	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28205,0	0806	15	05	E		A3E			Spanish CBers
DK2OM	28210,0	vt	dly	05	UKR		F3E			taxi - Dnepropetrovsk
DK2OM	28215,0	1613	01	05	B		A3E			Brazilian CBers
DK2OM	28215,0	1532	07	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28220,0	1408	10	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28225,0	1753	10	05	B		A3E			Brazilian CBers
DK2OM	28230,0	1830	19	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28235,0	1612	01	05	B		A3E			Brazilian CBers
DK2OM	28235,0	1618	08	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28245,0	1754	10	05	B		A3E			Brazilian CBers
DK2OM	28245,0	1915	08	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28245,0	1924	08	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28250,0	1720	04	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28250,2	1536	23	05	GAB		A3E		1600	carrier and dots in USB and LSB, bursts every 60 sec – 28250.2 kHz carrier – Gabon – daily and all day
DK2OM	28251,5	2044	10	05	B		A3E			Brazilian CBers
DK2OM	28255,0	vt	dly	05	KAZ		F3E			taxi – Almaty
DK2OM	28255,0	1611	01	05	B		A3E			Brazilian CBers
DK2OM	28265,0	1909	02	05	RUS		F3E			taxi net, area of Moscow - daily
DK2OM	28265,0	1755	10	05	B		A3E			Brazilian CBers
DK2OM	28265,0	1750	18	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28270,0	0943	15	05	IRN		FMCW		60k	OTH Radar – 187 sps
DK2OM	28272,0	0733	05	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28275,0	1705	05	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28275,0	ady	dly	05	RUS		F3E			taxi net, area of Moscow - daily
DK2OM	28275,0	1755	10	05	B		A3E			Brazilian CBers
DK2OM	28285,0	vt	dly	05	RUS		F3E			taxi – Rostov na Donu
DK2OM	28285,0	1755	10	05	B		A3E			Brazilian CBers
DK2OM	28285,0	0833	23	05	E		A3E			Spanish CBers
DK2OM	28295,0	1611	01	05	B		A3E USB			Brazilian CBers
DK2OM	28295,0	0948	18	05	I		F3E			Italian CBers
DK2OM	28295,0	1826	26	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28300,0	1614	08	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28305,0	vt	dly	05	RUS		F3E			taxi - Krasnodar
DK2OM	28305,0	1621	01	05	B		A3E			Brazilian CBers
DK2OM	28305,0	0946	18	05	I		F3E			Italian CBers
DK2OM	28310,0	1530	07	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28315,0	2045	10	05	B		A3E			Brazilian CBers
DK2OM	28315,0	1940	18	05	B		USB			Brazilian CBers, roger beep

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	28320,0	0950	04	05	IRN		FMCW		60k	OTH Radar – 307 sps
DK2OM	28321,6	1950	14	05	?		A3E			pirates in Spanish voice
DK2OM	28328,0	1712	05	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps - jumping
DK2OM	28330,0	1722	04	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28348,0	1702	05	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28355,2	0831	23	05	E		A3E			Spanish CBers
DK2OM	28362,0	1719	04	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28365,0	1702	05	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28365,0	vt	dly	05	RUS		F3E			taxi net, area of Moscow - daily
DK2OM	28365,0	0940	04	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28370,0	0941	04	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28375,0	0947	04	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28380,0	0734	05	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28390,0	1724	04	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28390,0	vt	dly	05	RUS		F3E			taxi - Vladikavkaz
DK2OM	28395,0	1713	04	05	IRN		FMCW		60k	OTH Radar – 870 sps - jumping
DK2OM	28400,0	1717	04	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28405,0	1724	04	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28412,0	1659	05	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28425,0	0937	21	05	I		A3E			Italian CBers
DK2OM	28430,0	1721	04	05	IRN		FMCW		60k	OTH Radar – 307 sps
DK2OM	28439,0	1714	05	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28440,0	1722	04	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28444,0	1723	04	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28450,0	1727	05	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28460,0	1914	15	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28465,0	1717	04	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28470,0	1623	08	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28475,0	1727	04	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28483,0	1714	04	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28490,0	1917	08	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28505,0	1723	05	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28512,0	1710	05	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28514,0	1714	05	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28523,0	1724	05	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28524,0	1700	05	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28525,0	1711	05	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28530,0	0943	04	05	IRN		FMCW		60k	OTH Radar – 307 sps - jumping
DK2OM	28545,0	1916	15	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28550,0	1718	05	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28609,0	1712	05	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28675,0	1917	15	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28695,0	vt	dly	05	RUS		F3E			taxi net, area of Moscow - daily
DK2OM	28705,0	1918	15	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28713,0	1703	05	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps - jumping
DK2OM	28825,0	vt	dly	05	UKR		F3E			taxi - Odessa
DK2OM	28840,0	1916	15	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28865,0	vt	dly	05	RUS		F3E			taxi - area of Moscow – male and female – daily, all day
DK2OM	28880,0	0942	04	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28885,0	0944	04	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28895,0	0949	04	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	28895,0	vt	dly	05	RUS		F3E			taxi - Stavropol
DK2OM	28945,0	vt	dly	05	UKR		F3E			taxi - Donetsk
DK2OM	28970,0	1920	15	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	29055,0	vt	dly	05	RUS		F3E			taxi Stavropol
DK2OM	29112,0	1726	04	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	29217,0	1719	05	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	29225,0	1627	08	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	29230,0	1706	05	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	29236,0	1716	05	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	29240,0	1715	04	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	29250,0	1957	14	05	E		F1B	81.9	140	Datawell-buoy “Waverider” – 29249.907 kHz – Fuerteventura - daily, all day

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	29250,0	1626	08	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	29270,0	1716	04	05	IRN		FMCW		60k	OTH Radar – 307 sps
DK2OM	29296,0	1725	05	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	29305,0	1707	05	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	29335,0	1622	08	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	29340,0	1921	15	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	29355,0	1626	08	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	29360,0	1621	08	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	29375,0	ady	dly	05	I		F1B	81.9	140	Datawell-buoy “Waverider” – 29374.898 kHz – Galatone, South Italy - daily, all day
DK2OM	29375,0	1624	08	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps
DK2OM	29387,5	ady	dly	05	IND		F1B	81.9	140	Datawell-buoy “Waverider” – 29387,460 kHz – Indian NW coast, close to Pakistan - daily, all day
DK2OM	29450,0	ady	dly	05	MRC		F1B	81.9	140	Datawell-buoy “Waverider” – 29449.963 kHz - area of El Aaiun – Morocco - daily, all day
DK2OM	29500,0	ady	dly	05	G		F1B	81.9	140	Datawell-buoy “Waverider” – area of Gibraltar – daily, all day
DK2OM	29525,0	1959	14	05	MRC		F1B	81.9	140	Datawell-buoy “Waverider” – 29524.990 kHz - Agadir - Morocco – daily, all day
DK2OM	29555,0	vt	dly	05	RUS		F3E			taxi - area of Moscow - daily
DK2OM	29575,0	vt	dly	05	RUS		F3E			taxi - area of Moscow – male and female – very active - daily, all day
DK2OM	29684,8	1830	13	05	I		serial			serial modem, Italian MIL Brescia – Sporadic E!
DK2OM	29699,8	1831	13	05	I		serial			serial modem, Italian MIL Brescia – Sporadic E!
DK2OM	29723,0	1717	05	05	IRN		FMCW		60k	OTH Radar – 307 and 870 sps

IRTS – Ireland – EI5DD (Steve)

KARS – Kuwait – 9K2RR (Faisal)

MRASZ – Hungary - HA7PL (Laci)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
MRASZ	7000,0	1940	21	5			N0N			
MRASZ	7000,1	1603	12	5			LSB			chaos
MRASZ	7000,4	1813	8	5			LSB			italian male's
MRASZ	7005,0	1826	1	5			LSB			Ui language
MRASZ	7005,0	1930	21	5			A1A			"PBUAD UKZCM ÄJÜKX" =K
MRASZ	7011,0	1849	30	5			A1A			"GIV6 de C67Z K"
MRASZ	7020,0	1854	30	5			USB			russian male
MRASZ	7027,5	1909	7	5			A1A			"V V V V V" slowly
MRASZ	7027,5	1659	8	5			A1A			"V V V V V" slowly
MRASZ	7027,5	1728	13	5			A1A			"V V V V V" slowly
MRASZ	7038,7	vt	vd	5	UKR	D	A1A			beacon "D"
MRASZ	7038,9	1948	29	5	RUS	S	A1A			beacon "S"
MRASZ	7039,0	1808	1	5	RUS	C	A1A			beacon "C"
MRASZ	7039,0	1948	29	5	RUS	C	A1A			beacon "C"
MRASZ	7039,0	1753	8	5	RUS	P	A1A			beacon "P"
MRASZ	7039,0	0915	10	5	RUS	P	A1A			beacon "P"
MRASZ	7054,0	vt	vd	5	RUS		F1B	50	200	RUS Navy
MRASZ	7085,0	1803	8	5			A1A			"81 81 81"
MRASZ	7120,0	1737	13	5	SOM		A3E			BC + on day's:

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
										13,18,19,29
MRASZ	7132,0	2005	31	5			A1A			5 fig's
MRASZ	7175,0	1752	13	5			???			10 kHz wide intermod. produkt
MRASZ	7188,0	1950	30	5			A1A			"B E A C O N"
MRASZ	7190,0	1808	8	5			A3E			UiBC
MRASZ	10144,0	1911	21	5			A1A			"174 1TT 21 2300 174" 5 letter's
MRASZ	14000,0	0730	10	5			USB			"DELTA OCEAN OVER"
MRASZ	14026,0	0727	10	5	RUS		PSK 2			AT3004D
MRASZ	14026,0	1859	21	5	RUS		PSK 2			AT3004D
MRASZ	14026,0	1800	7	5	RUS		PSK2			AT3004D
MRASZ	14026,0	1923	8	5	RUS		PSK2			AT3004D
MRASZ	14221,0	2000	13	5			F1B			iddle
MRASZ	14221,0	2014	31	5	Ui		F1B		185	
MRASZ	14228,2	1908	21	5			N0N			
MRASZ	14295,3	1905	21	5			N0N			
MRASZ	21000,0	2018	31	5			OTHR			till 21010 kHz

OEVSZ – Austria – OE3GSA (Gerd)

PZK – Poland – SP3UZ (Wladyslaw)

REP – Portugal – CT4AN (Jose Francisco)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REP	3535,0	00.10	20	05	E		J3E-U			Spanish fishermen
REP	3540,0	17.00	29	05			J3E-U			Unid language fishery
REP	3550,0	07.42	09	05	F		A3E			INFRINGE - French amateurs ignoring IARU R1 Bandplan, daily
REP	3552,2	06.57	3	05	IRL		J3E-L			Irish fishermen
REP	3570,0	08.04	12	05			J3E-U			Unid language fishermen
REP	3769,0	22.49	26	05	P		J3E-L			Portuguese music jamming QSOs
REP	3790,0	08.54	16	05	E		J3E-U			Spanish fishery
REP	7000,0	12.11	11	05	E		J3E-L			Spanish intruders splatter
REP	7010,0	06.18	07	05	E		J3E-U			Fishermen talking with family
REP	7030,0	07.22	13	05	E		J3E-U			Fishermen talking
REP	7035,0	22.10	20	05	E		J3E-U			Fishermen
REP	7054,0	19.36	20	05	RUS		F1B	50	200	Russian mil encrypted – daily
REP	7070,0	16.54	29	05	I		J3E-L			Italian music jamming QSOs
REP	7105,0	22.23	14	05	TWN		8k00 A3EGN			Sounds of Hope
REP	7120,0	18.33	14	05	SOM		8k00 A3EGN			Radio Hargeysa
REP	10100,0	21.00	28	05			A3E			Number code Station - 5 letters groups
REP	10100,0	07.16	21	05	E		J3E-U			Spanish fishery
REP	10120,0	14.10	21	05	MRC		J3E-U			Many morrocan fishermen discussing
REP	10124,5	01.29	21	05			J3E-U			Unid language talks
REP	10130,0	20.32	25	05	MRC		J3E-U			Arabic ops, morrocan fishermen
REP	10135,0	20.03	25	05			J3E-U			Unid Arabic ops, fishermen
REP	14000,0	09.41	16	05			F1B	300	425	RY RY RY
REP	14005,0	09.40	09	05			F1B			Not on standard speeds

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REP	14030,0	18.54	18	05	E		J3E-U			Unid spanish ops
REP	14150,0	21.33	31	05	I		J3E-U			Talks ship to ship
REP	14185,0	16.20	23	05			J3E-U			Italian Music jamming QSOs
REP	14192,0	10.50	20	05			CW			Unmodulated carrier, daily
REP	14195,0	08.41	16	05	RUS		F1B	50	200	Russian Navy 50/200 encrypted, daily
REP	14280,0	07.30	28	05			J3E-U			Flute playing station (header)
REP	14287,0	19.57	2	05			FMCW			OTH radar, also on 14303kHz and 14319kHz
REP	18070,0	13.04	10	05			FMCW			OTH radar 10kHz 48cps
REP	18070,0	07.21	23	05			FMCW			OTH radar 20kHz 50cps
REP	18087,4	07.27	28	05						Wide signal 2300 shift unid mode
REP	18090,0	10.24	27	05			FMCW			OTH radar 20kHz 50cps
REP	21000,0	18.02	31	05			FMCW			OTH radar 20kHz 50cps
REP	21001,0	07.12	27	05	RUS		F1B	100	150	Vocoder
REP	21001,5	13.53	5	05	RUS		F1B	100	200	Yakhata vocoder Russia
REP	21010,0	07.25	27	05			J3E-U			Coded transmission
REP	21020,0	17.00	11	05	MRC		J3E-U			Male fishermen talks
REP	21110,0	17.02	04	05	P		J3E-U			Portuguese fishermen
REP	21150,0	11.54	7	05			FMCW			OTH radar 20kHz 50cps
REP	21270,0	16.40	8	05			FMCW			OTH radar 20kHz 50cps
REP	21355,0	10.40	8	05			FMCW			OTH radar 20kHz 50cps
REP	21380,0	15.56	22	05	E		J3E-U			Spanish fishery
REP	24900,0	10.45	20	05			FMCW			OTH radar 20kHz 50cps
REP	24975,0	12.16	4	05	B		J3E-L			Brazilian pirates
REP	28025,0	21.26	30	05			F1B	50	250	Sea buoy cluster - 3 units slightly apart
REP	28040,0	21.20	30	05			F1B	50	250	Sea buoy
REP	28050,0	18.01	19	05	E		F1B			Spanish Enagal GPS buoy
REP	28052,0	19.03	19	05			F3E			Unid ops
REP	28055,0	12.27	7	05	RUS		F3E			Russian YL taxi dispatcher
REP	28075,0	09.49	16	05	MRC		F3E			Moroccan fishermen, french + arabic
REP	28090,0	09.32	5	05			FMCW			OTH radar
REP	28110,0	09.39	9	05			FMCW			OTH radar
REP	28135,0	11.49	7	05	RUS		F3E			Russian YL taxi dispatcher
REP	28155,0	08.55	5	05	RUS		F3E			Russian taxi dispatcher
REP	28175,0	11.52	5	05			F3E			Far East intruders
REP	28175,0	10.33	20	05			F3E			Far East Fm ops, weak
REP	28190,0	10.00	08	05			F3E			YL taxi dispatcher
REP	28260,0	09.46	17	05			F3E			Taxi dispatchers
REP	28265,0	10.08	10	05	RUS		F3E			Russian taxi dispatcher
REP	28275,0	08.17	8	05	RUS		F3E			Russian taxi dispatcher
REP	28285,0	09.53	10	05	RUS		F3E			Russian taxi dispatcher
REP	28425,0	10.23	7	05	P		A3E			Portuguese fishermen - daily
REP	28425,0	10.35	8	05	P		A3E			Portuguese fishermen
REP	28475,0	17.20	20	05	P		A3E			Portuguese fishermen
REP	28501,0	08.45	29	05	P		A3E			Portuguese fishermen
REP	28575,0	16.22	28	05			F3E			Unid fishermen
REP	28600,0	14.55	5	05	B		F3E			INFRINGE - Brazil hams not respecting IARU Band Plans
REP	28620,0	11.41	3	05			FMCW			OTH radar
REP	28635,0	16.49	5	05	RUS		F3E			Russian taxi dispatcher
REP	28655,0	16.26	5	05	RUS		F3E			Russian taxi dispatcher
REP	28675,0	16.41	5	05	RUS		F3E			Russian taxi dispatcher
REP	28710,0	18.24	28	05	B		A3E			Brazilian pirates
REP	28715,0	16.44	5	05	RUS		F3E			Russian taxi dispatcher
REP	28715,0	10.29	20	05	RUS		F3E			Russian taxi dispatcher
REP	28730,0	11.13	5	05			FMCW			OTH radar

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REP	28745,0	12.27	21	05			A3E			Fishermen, unid language
REP	28775,0	16.27	5	05	RUS		F3E			Russian taxi dispatcher
REP	28815,0	16.43	5	05	RUS		F3E			Russian taxi dispatcher
REP	28935,0	16.31	5	05	RUS		F3E			Russian taxi dispatcher
REP	28940,0	08.24	5	05	P		A3E			Portuguese fishermen
REP	28940,0	10.24	7	05	P		A3E			Portuguese fishermen - daily
REP	28940,0	08.25	8	05	P		A3E			Portuguese fishermen – daily
REP	28945,0	16.33	5	05	RUS		F3E			Russian taxi dispatcher
REP	28975,0	16.46	5	05	RUS		F3E			Russian taxi dispatcher
REP	29005,0	16.40	5	05	RUS		F3E			Russian taxi dispatcher
REP	29015,0	16.28	5	05	RUS		F3E			Russian taxi dispatcher
REP	29065,0	16.29	5	05	RUS		F3E			Russian taxi dispatcher
REP	29125,0	12.20	7	05	P		A3E			Portuguese fishermen - daily
REP	29125,0	08.37	8	05	P		A3E			Portuguese fishermen
REP	29135,0	09.55	21	05	P		A3E			Fishermen
REP	29215,0	16.45	5	05	RUS		F3E			Russian taxi dispatcher
REP	29335,0	16.50	5	05	RUS		F3E			Russian taxi dispatcher
REP	29385,0	16.42	5	05	RUS		F3E			Russian taxi dispatcher
REP	29485,0	16.34	5	05	RUS		F3E			Russian taxi dispatcher
REP	29575,0	16.37	5	05	RUS		F3E			Russian taxi dispatcher
REP	29670,0	09.10	9	05			FMCW			OTH radar
REP	29695,0	10.39	7	05	P	Peixoto	J3E-L			Mr. Peixoto, a CB pirate – daily Oporto area
REP	29695,0	16.55	13	05	P	Peixoto	A3E			CB AM Pirate Oporto area - daily

RSGB - Great Britain – G4BOH (Chris)

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
RSGB	7105	-	-	05	CHN	BC	A3E	-	-	Following App. 10 and App. 9 complaints by Baldock to the ITU, the BC station on this frequency has now gone.
RSGB	14235	VAR.	24-28	05	NATO		PSK8	2400	2400	STANAG 4285. Reported to Baldock, disappeared very quickly. Possible return 1-2 June. Observations continue.

SRAL – Finland – OH2BLU (Pekka)

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
SRAL	7000,0	h24	1.-5.	5	ISR	UiCarr	N0N			
SRAL	7008,0	0100-1930	*	5	RUS	UiPTR	F1B		250	Days: 22. 27. 28. 30.
SRAL	7015,0	0855-1235	14. 15.	5		UiPTR	F1B		200	
SRAL	7018,0	1430	2.	5		UiMUX	J7D	12x120	12x200	
SRAL	7018,62	0355-1915	20. 21.	5		UiCarr	N0N			
SRAL	7022,0	1800-1930	30.	5		UiMUX	J7D	12x120	12x200	
SRAL	7024,0	1335	3.	5		UiPTR	F1B		250	
SRAL	7027,0	1630	24.	5		UiMUX	J7D	12x120	12x200	
SRAL	7030,0	0830-1100	4.	5		UiPTR	F1B			
SRAL	7038,7	h24	dly	5	UKR	D	A1A			Sevastopol
SRAL	7038,8	0830-	8.-	5	RUS	P	A1A			Kaliningrad

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
		1845	10.							
SRAL	7038,9	0030-1930	*	5	RUS	S	A1A			Severomorsk, 15 days
SRAL	7039,0	0000-1930	*	5	RUS	C	A1A			Moscow, days: 15 days
SRAL	7050,0	1920	27.	5		UiPTR	F1B			
SRAL	7052,0	1330-1930	9.	5		UiPTR	F1B		250	
SRAL	7054,0	/1700-0700/	1.-28.	5	RUS		F1B		200	Moscow
SRAL	7058,0	1100-1340	11.	5		UiPTR	F1B			
SRAL	7058,0	0930	25.	5		UiPTR	F1B			
SRAL	7060,0	0815-0900	25.	5		UiMUX	J7D	12x120	12x200	
SRAL	7079,0	1715-1815	9.	5		UiPTR	F1B		250	
SRAL	7080,0	0305-1015	8. 25.	5	RUS	RMW46	A1A			
SRAL	7087,0	1320	13.	5		UiPTR	F1B			
SRAL	7091,5	1130-1510	*	5		UiPTR	F1B		250	Days: 17. 18. 23. 26.
SRAL	7098,0	0830	11.	5		UiPTR	F1B			
SRAL	7100,0	0300-0500	*	5	ERI	VoBME 2	A3E			Days: 5. 7. 8. 10. 16. 17. 19. 21. 22. 25. 26. 27. 29.
SRAL	7100,0	1500-1800	*	5	ERI	VoBME 2	A3E			Days: 5. 7. 8. 10. 16. 17. 19. 21. 22. 25. 26. 27. 29. jammed by ETH until 1700,
SRAL	7111,0	0655-0917	21.	5		UiPTR	F1B		250	
SRAL	7112,0	1855-2400	22.	5		UiMUX	J7D	12x120	12x200	
SRAL	7112,0	0000-0400	23.	5		UiMUX	J7D	12x120	12x200	
SRAL	7120,0	0315-0415	11.-31.	5	SOM	R. Hargeisa	A3E			
SRAL	7120,0	1300-1900	11.-31.	5	SOM	R. Hargeisa	A3E			
SRAL	7121,0	0855-1245	23. 25.	5		UiMUX	J7D	12x120	12x200	
SRAL	7131,0	1625	16.	5		UiCW	A1A			MR 4BL
SRAL	7131,0	1310	30.	5		UiPTR	F1B		200	
SRAL	7134,9	1330-1420	10.	5		UiCarr	N0N			
SRAL	7137,0	0830	11.	5		UiPTR	F1B			
SRAL	7142,0	0445	5.	5		UiPTR	F1B			
SRAL	7150,0	1010-1100	25.	5		UiMUX	J7D	12x120	12x200	
SRAL	7155,0	0040-0320	8.	5		UiMUX	J7D	12x120	12x200	
SRAL	7158,5	0215-1930	12.-14	5		UiMUX	J7D	12x120	12x200	
SRAL	7162,0	1100-1200	1.	5		UiPTR	F1B			
SRAL	7171,0	0610-0640	8.	5		UiMUX	J7D	12x120	12x200	
SRAL	7176,0	1845	30.	5		UiPTR	F1B			
SRAL	7181,62	1725-0435	*	5		UiCarr	N0N			Days: 25. 28. 29.
SRAL	7195,0-7200,0	1730-1930	3.-31.	5	RUS	RRI	A3E			Splatter from BC-band
SRAL	14 MHz	0530-0630	13.	5	RUS	UiOTHR	FMCW			50Hz/10 kHz
SRAL	14000,0	1755-1920	9.	5		UiCarr	N0N			
SRAL	14008,0	0600-	*	5		UiPTR	F1B		250	Days: 15. 19. 27.

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
		0800								
SRAL	14026,0	0500-1930	*	5	RUS	UiMUX	J7D	12x120	12x200	Days: 7. 9. 10.-13. 20.-22.
SRAL	14081,0	0540-0900	9.	5		UiPTR	F1B		250	
SRAL	14088,0	0750	15.	5		UiMUX	J7D	12x120	12x200	
SRAL	14108,0	0540-0900	*	5		QRD3	A1A			Days: 25. 27. 30. MR 5BL
SRAL	14112,0	0755	7.	5		UiMUX	J7D	12x120	12x200	
SRAL	14116,0	0535-1330	21. 22.	5		UiPTR	F1B		250	
SRAL	14141,0	1130-1145	21. 22.	5		UiPTR	F1B		500	
SRAL	14160,0	1130-1700	22.	5		UiPTR	F1B		250	
SRAL	14177,0	1130-1200	22.	5		UiPTR	F1B		500	
SRAL	14192,0	0800-1700	4.-31.	5	RUS	UiPTR	F1B		200	Kaliningrad
SRAL	14221,0	1915-0945	14.-31.	5	RUS	UiPTR	F1B		200	Moscow
SRAL	14234,0	0950	8.	5		UiMUX	J7D	12x120	12x200	
SRAL	14240,0	0750-0800	15.	5		UiMUX	J7D	12x120	12x200	
SRAL	14240,0	0855	15.	5		UiPTR	F1B			
SRAL	14116,0	0535-1330	21. 22.	5		UiPTR	F1B		250	
SRAL	14253,0	1330-1430	3.	5		UiPTR	F1B		250	
SRAL	14263,0	0945-1015	4.	5		UiPTR	F1B			
SRAL	14265,0	0655-0840	1. 4.	5		UiMUX	J7D	12x120	12x200	
SRAL	14274,0	0605-1015	17.	5		UiMUX	J7D	12x120	12x200	
SRAL	14292,0	0600	15.	5		UiCW	A1A			MR 5F
SRAL	14295,2	0000-1920	dly	5	TJK	R Tojikiston	A3E			3f 4765,07 kHz, Yangiyul TX
SRAL	14306,0	0655	1.	5		UiMUX	J7D	12x120	12x200	
SRAL	14317,0	1620	31.	5		HYN3	A1A			
SRAL	18 MHz	0645-1305	*	5	CYP / TUR	UiOTHR	FMCW			50Hz / 20 kHz, 17 reports
SRAL	18306,0	0655	1.	5		UiMUX	J7D	12x120	12x200	
SRAL	21 MHz	0540-1400	*	5	CYP / TUR	UiOTHR	FMCW			50Hz / 20 kHz, 19 reports
SRAL	21061,0	0655-0805	*	5		UiMUX	J7D	12x120	12x200	Days: 5. 13. 16. 20. 29. 30.
SRAL	21245,0	0420-0510	31.	5		UiOTHR	FMCW			33.3Hz / 10 kHz, bursts
SRAL	21275,0	1330-140	18.	5		UiMUX	J7D	12x120	12x200	
SRAL	24 MHz	0610	6.	5	CYP / TUR	UiOTHR	FMCW			50Hz / 20 kHz
SRAL	28 MHz	0730-1230	*	5	IRN	UiOTHR	FMCW			307/870Hz / 60 kHz, 6 reports
SRAL	28 MHz	0615-1200	*	5	CYP / TUR	UiOTHR	FMCW			50Hz / 20 kHz, 5 reports
SRAL	28 MHz	0840-1130	*		RUS	Taxi disp.	F3E			Days: 4. 11. 14. 18. 23 reports

USKA – Switzerland – HB9CET (Peter)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	7000.0	2308	12	05		209	MFSK8			MIL 188-141A
USKA	7000.0	0005	15	05		103	MFSK8			MIL 188-141A
USKA	7000.0	1804	15	05		ST6	MFSK8			MIL 188-141A
USKA	7000.0	2052	16	05		102	MFSK8			MIL 188-141A
USKA	7000.0	2252	18	05		21093	MFSK8			MIL 188-141A
USKA	7000.0	2131	20	05			N0N			long lasting carrier
USKA	7000.0	1529	23	05			J3E-U			unident language
USKA	7014.0	2237	01	05			J3E-U			unident language (Females)
USKA	7015.5	2201	01	05			MPSK	8x62.5	1750	Clover 2000 Format ARQ-8PSM
USKA	7025.0	0809	27	05			F1B		250	
USKA	7038.7	2036	01	05	UKR	D	A1A			Beacon D Sevastopol daily
USKA	7038.8	0912	09	05	RUS	P	A1A			Beacon P Kaliningrad daily
USKA	7038.9	2155	01	05	RUS	S	A1A			Beacon S Murmansk daily
USKA	7039.0	2157	01	05	RUS	C	A1A			Beacon C Moscow daily
USKA	7039.3	2038	01	05	RUS	K	A1A			Beacon K Petropavlovsk daily
USKA	7039.4	2033	01	05	RUS	M	A1A			Beacon M Magadan daily
USKA	7052.0	1859	09	05			F1B	75	250	
USKA	7054.0	2022	01	05	RUS		F1B	50	200	daily
USKA	7070.0	2322	19	05		204	MFSK8	125	1750	MIL 188-141A daily
USKA	7070.0	0141	20	05		244	MFSK8	125	1750	MIL 188-141A daily
USKA	7070.0	0322	22	05		571	MFSK8	125	1750	MIL 188-141A daily
USKA	7079.0	1857	09	05			F1B	75	250	
USKA	7086.5	1258	13	05			F1B	40.5	250	CIS 81 in 40.5 mode
USKA	7100.0	1628	07	05			A3E			BC
USKA	7105.0	2240	01	05	TWN		A3E			BC (2 stations)
USKA	7105.0	2241	01	05	CHN		A3E			BC (2 stations)
USKA	7111.0	0807	21	05			F1B	75	250	
USKA	7112.0	2103	22	05			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D
USKA	7120.0	1738	26	05	SOM		A3E			Radio Hargeisa daily
USKA	7158.5	2159	12	05			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D
USKA	7166.0	1540	20	05			A1A			groups of 5, ~24 wpm
USKA	7197.0	2241	01	05			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D
USKA	7197.0	2221	08	05		8361	MFSK8	125	1750	MIL 188-141A
USKA	7197.0	2222	08	05		8511	MFSK8	125	1750	MIL 188-141A
USKA	7197.0	2223	08	05		3141	MFSK8	125	1750	MIL 188-141A
USKA	7197.0	2225	08	05		3641	MFSK8	125	1750	MIL 188-141A
USKA	7197.0	2227	08	05		8241	MFSK8	125	1750	MIL 188-141A
USKA	7197.0	2230	08	05		8481	MFSK8	125	1750	MIL 188-141A
USKA	7198.5	1924	09	05			OFDM	65.5	~2k9	
USKA	14000.0	1905	09	05			N0N			long lasting carrier over hours
USKA	14008.0	0953	08	05			F1B	50	250	CIS 36-50 almost daily
USKA	14026.0	0749	07	05			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D daily
USKA	14081.0	0807	09	05	RUS		F1B	75	250	
USKA	14118.0	0903	09	05			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D
USKA	14192.0	0911	03	05			F1B	50	200	almost daily
USKA	14221.0	2127	09	05			F1B	50	200	often
USKA	14221.0	2135	20	05			F1B	75	250	
USKA	14245.0	2324	19	05			FMCW	66.66	10k	OTHR BD 2s BRI 22s (varying)
USKA	14344.65	2031	01	05			PSK-8	2400	2k4	MIL188-100 Hybrid, bursts, daily
USKA	18130.0	0759	07	05			F1B	100	1000	harmonic from 9065 kHz
USKA	21001.5	1016	03	05			F1B	100	150	daily
USKA	21029.0	0817	07	05			J7D	12x120	2k6	CIS12 idling
USKA	21030.0	0741	07	05			FMCW	50 sps	20k	OTHR
USKA	21050.0	0805	09	05			FMCW	50 sps	20k	OTHR
USKA	21058.0	0759	09	05			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D
USKA	21060.0	1502	23	05			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D
USKA	21064.0	0731	07	05			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D
USKA	21066.0	0748	21	05			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D
USKA	21370.0	1005	07	05			FMCW	50 sps	20k	OTHR
USKA	21400.0	0718	24	05			FMCW	50 sps	20k	OTHR often
USKA	21409.6	0649	06	05			F1B	50	2000	2nd from 10704.8 often
USKA	21415.0	1133	11	05			FMCW	48 sps	10k	OTHR burst system BD ~5s
USKA	21418.0	0844	03	05			FMCW	67 sps	10k	OTHR, Burst system BD 1.9s BRI 3.8s
USKA	21430.0	1233	28	05			FMCW	50 sps	20k	OTHR

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	28000.0	1633	10	05			A3E		~5k	curious signal, bursts BRI 2.1s
USKA	28035.0	1723	07	05			J3E-U			unid language
USKA	28045.0	1849	07	05			J3E-U			Portugese or Brazilian
USKA	28085.0	1020	03	05			FMCW	50 sps	20k	OTHR
USKA	28200.0	1124	11	05			FMCW	50 sps	20k	OTHR
USKA	28670.0	0943	08	05			FMCW	var sps	~50k	OTHR varying sweep rate
USKA	28890.0	0809	07	05			FMCW	var sps	~50k	OTHR varying sweep rate
USKA	29250.0	1830	07	05			F1B	81.9	140	Datawell buoy daily
USKA	29320.0	0811	07	05			FMCW	var sps	~50k	OTHR varying sweep rate
USKA	29355.0	0810	07	05			FMCW	var sps	>50k	OTHR varying sweep rate
USKA	29360.0	0806	07	05			FMCW	var sps	>50k	OTHR varying sweep rate
USKA	29500.0	1828	07	05			F1B	81.9	140	Datawell buoy
USKA	29525.0	1101	07	05			F1B	81.9	140	Datawell buoy daily
USKA	29685.0	0957	12	05			FMCW	50 sps	20k	OTHR

Veron 1 – Netherlands – PA2GRU (Dick)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
VERON	7025,0	15.30	16	5		UiPtr	F1B		200	ptr, revs
VERON	7038,7	17.19	18	5	UKR	D	A1A			Beacon Sevastopol
VERON	7038,7	17.25	10	5	UKR	D	A1A			D-beacon (also at 17/5 17.03 utc)
VERON	7038,8	17.26	10	5	RUS	P	A1A			P-beacon
VERON	7038,9	19.18	4	5	RUS	S	A1A			S-beacon
VERON	7038,9	20.57	4	5	RUS	S	A1A			Beacon Severomorsk
VERON	7038,9	19.07	11	5	RUS	S	A1A			Beacon Severomorsk
VERON	7039,0	19.18	4	5	RUS	C	A1A			C-beacon
VERON	7050,0	13.28	26	5	UKR	UiILL	J3e-U			English, male voices, fishery
VERON	7054,0	20.05	1	5	RUS	UiPtr	F1B	50	200	ptr, revs
VERON	7054,0	06.35	2	5	RUS	UiPtr	F1B	50	200	ptr, revs. Stops at 07.00 UTC
VERON	7054,0	17.00	2	5	RUS	UiPtr	F1B	50	200	ptr, revs. Starts at 17.00 UTC
VERON	7054,0	18.21	12	5	RUS	REA4	F1B		200	Ptr/Revs
VERON	7056,5	21.02	18	5		UiMux	FSK8		2k3	
VERON	7120,0	19.00	5	5	SOM	R.Hargaysa	A3E			E.African music; S8
VERON	7120,0	18.54	18	5	SOM	R.Hargaysa	A3E			E.African music; S8
VERON	7160,0	18.35	12	5		UiMUX	PSK2			12 MPSK AT3004-D
VERON	10103,0	09.57	13	5	CIS	UiCW	F1A			5BL
VERON	10108,0	11.59	16	5	CIS	UiPTR	F1B			Carrier/Revs/Ptr
VERON	10108,0	13.40	16	5	CIS	UiCW	F1A			XXX XXX (followed by F1B Revs/Ptr)
VERON	10120,0	08.42	29	5		UiILL	A3E			328 0 (Tres Dwa Ochen Nol)
VERON	10131,0	08.14	15	5		UiPTR	F1B			Ptr
VERON	14000,0	18.38	9	5		UiCAR	NON			carrier, S-9
VERON	14008,0	vt	vd	5	CIS	UiPTR	F1B			Carrier/Revs/Ptr
VERON	14008,0	12.07	12	5		UiPtr	F1B		250	Ptr
VERON	14026,0	09.00	9	5	RUS		J7D	120	2600	Carrier on 14027,3 kHz
VERON	14026,0	17.48	8	5	RUS	UiMUX	PSK2	120	2600	AT3004-D nr Moscow, also 9/5 1530-1830
VERON	14026,0	07.00	10	5	RUS	UiMux	PSK2	120	2600	AT3004-D nr Moscow,12MPSK, QRJ?
VERON	14084,0	14.42	14	5		UiPTR	F1B			Ptr
VERON	14108,0	08.21	31	5	CIS	QRDO	A1A			GPVD de QRDO QBE QYT9 k
VERON	14108,0	08.23	31	5	CIS	1R9D	A1A			GPVD de 1R9D QYT9 k
VERON	14108,0	10.17	31	5	CIS	QRDO	A1A			QLMQ de QRDO QBE QYT6 k
VERON	14108,0	10.18	31	5	CIS	QRDO	A1A			QLMQ de QRDO QYT9 k
VERON	14115,0	07.01	10	5	RUS	UiPtr	F1B		250	Ptr, F1A, 3x times QRJ?
VERON	14116,0	13.24	6	5		UiPTR	F1B			Fast Revs/Ptr
VERON	14116,0	13.36	6	5	CIS	UiCW	F1A			QRJ3 QRJ? SK (off air)
VERON	14117,0	17.06	13	5		UiPTR	F1B			Ptr
VERON	14118,0	08.25	6	5	CIS	UiCW	A1A			5BL (ending 206 k)
VERON	14192,0	16.20	5	5	RUS	UiPtr	F1B	50	200	revs, ptr

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
VERON	14192,0	09.23	5	5	RUS	UiPtr	F1B		200	
VERON	14240,0	08.15	1	5	CIS	UiCW	A1A			Strings of Cyrillic Morse
VERON	14307,0	19.33	4	5						Frequency hopper
VERON	18070,0	18.50	17	5		OTHR	FMCW			radar, wide 18060-18080 KHz, also 22/5
VERON	18075,0	09.29	6	5		OTHR	FMCW			radar, wide 18068-18080 Hz
VERON	18080,0	15.33	5	5		OTHR	FMCW			radar, wide 18068-18090 Hz
VERON	18091,5	08.10	30	5		UiPTR	F1B			Idling
VERON	18099,0	12.33	18	5		UiRadar	FMCW		26k	OTHR; 50pps
VERON	18105,0	11.36	16	5		UiCW	A1A			Looks like very High Speed Morse
VERON	18107,0	13.12	4	5	RUS	RDL	F1A			22222 5F
VERON	21034,0	18.50	2	5	E	UiILL	J3e-U			Spanish, male voices, fishery
VERON	21159,0	11.49	12	5						Frequency hopper
VERON	21170,0	16.43	4	5		UiRadar	FMCW		20k	OTHR; 50pps
VERON	21199,0	13.51	18	5						Frequency hopper
VERON	21210,0	10.39	5	5						Frequency hopper
VERON	21237,0	10.45	18	5						Frequency hopper
VERON	21303,0	13.51	4	5						Frequency hopper
VERON	28428,0	11.28	18	5		UiRadar	FMCW		24k	OTHR; 50pps

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

FTS – Funktechnik Seipelt – Hoppegarten - Germany

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