



Monitoring System

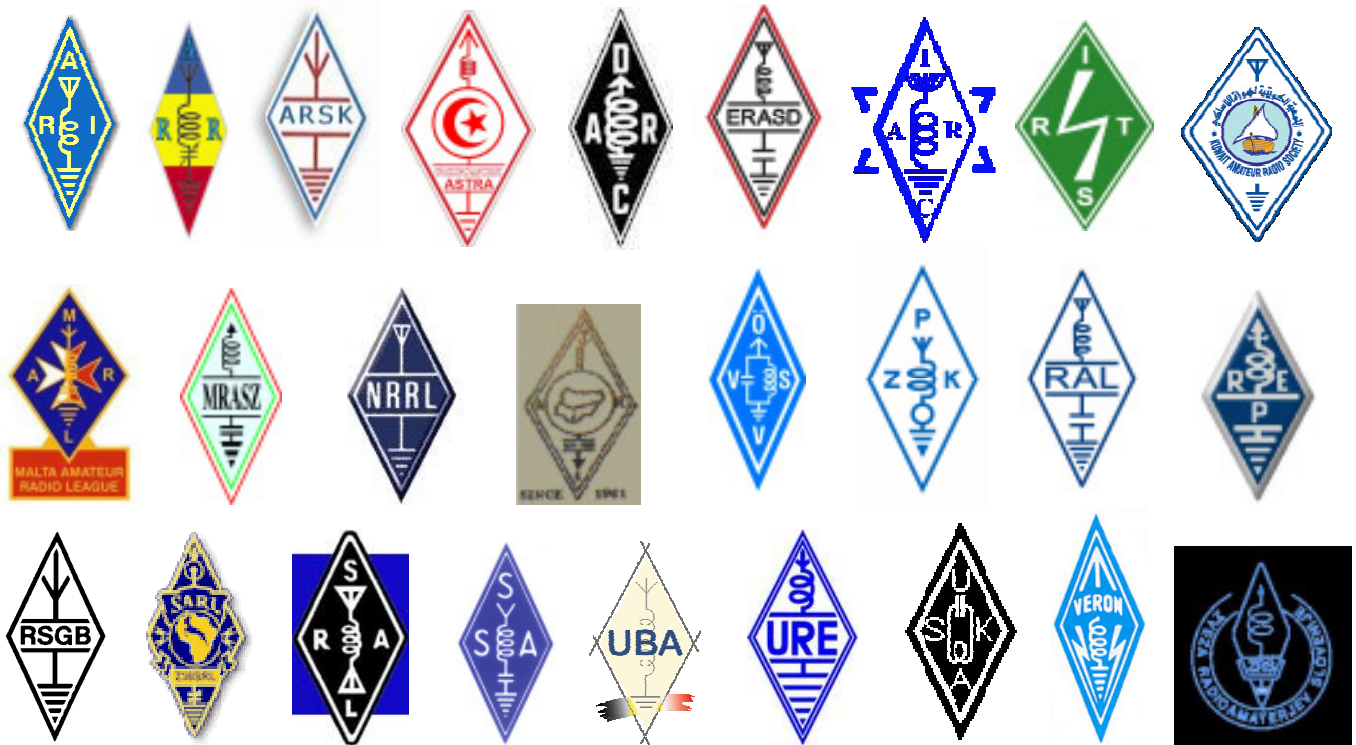
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The monthly newsletter for Region 1

August 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 ++
++ OEVS: 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

Part 1: News and Infos

1. 10120 kHz – Ukraine SZRU in A3E (AM)

The Ukraine Foreign Intelligence Service "SZRU" was active on 10120 kHz in A3E on every Wednesday at about 0830 UTC. The carrier started at 0830 utc, the messages began at 0843 utc. A female voice spelled encrypted MSGs like figures. Don't forget: The 10 MHz-Band is a shared band!

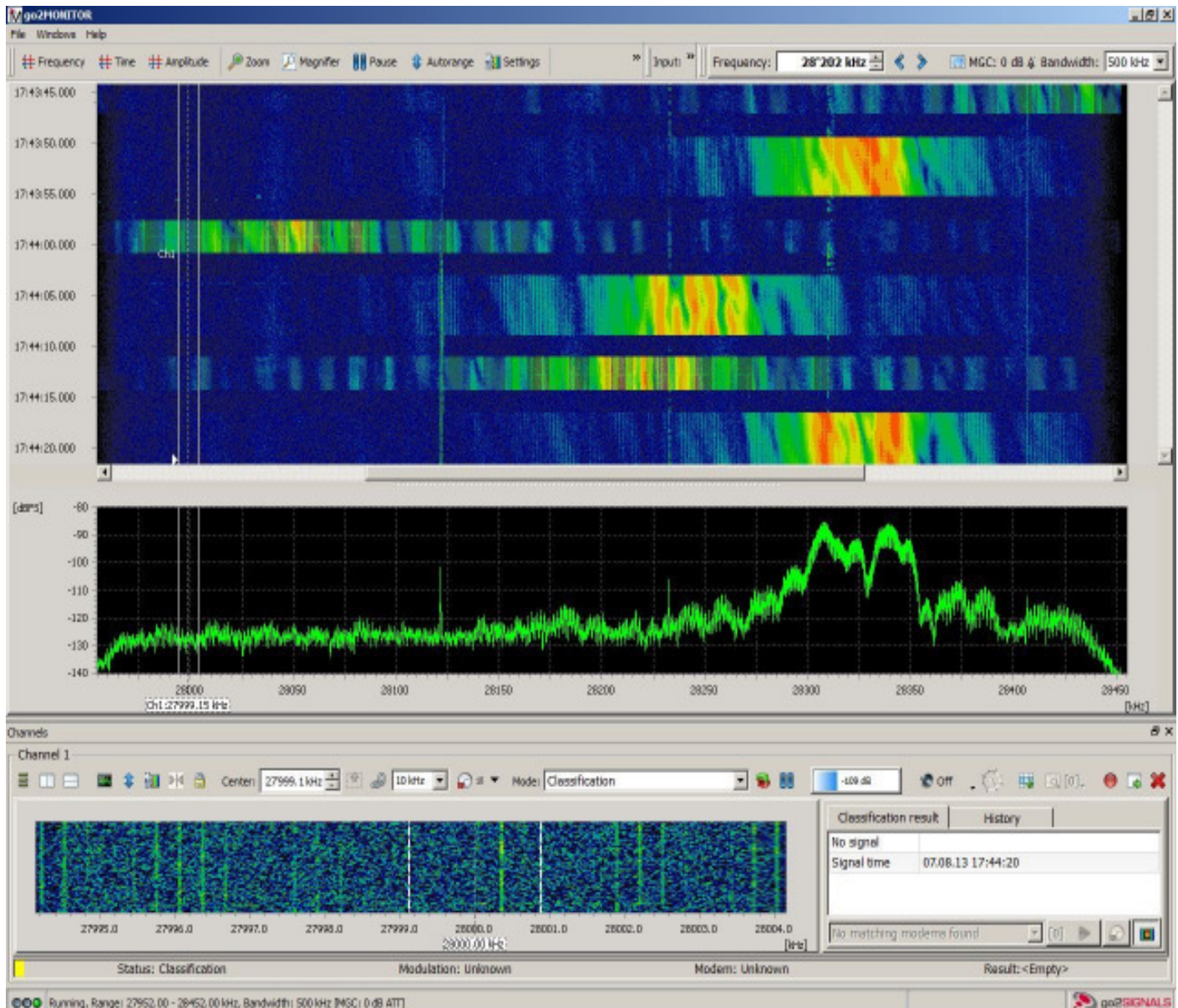
soundfile: <http://www.iarums-r1.org/iarums/sound/10120-ukr.wav> (recording by DK2OM)

2. 21060 kHz now free – success for Region 1

The Ukraine military system AT3004D (12 x 120 Bd BPSK) left 21060 kHz after a complaint by the German PTT (BNetzA). Many thanks to the German BNetzA!

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

The jumping Iran radar observed by the "GO2-Monitor" from Procitec. **GO2** has direct access to the Perseus. Screenshot: Iran OTH radar with GO2 – bandwidth 500 kHz – testversion operated by DK2OM:



The sonogram window is much larger and shows more details than the small original Perseus window. The classifier could be more reliable. If you want more infos:

<http://www.go2signals.ch/home.html>

4. 3700 - 3800 kHz- Russian OTH radar daily

The Russian OTH radar at Makhachkala (Dagestan – Caspian Sea) was daily active and audible in Central Europe in the late evenings. Parameters: 43.5 sps covering 30 – 35 kHz. The NATO F1B on 3782 kHz from Portugal was disturbed.

5. 2 m threatened by pirates

I got reports from different countries about pirates on our 2 m-band. Spain: Taxi-nets on 2 m in FM Canary Islands, Spanish fishery in the Bay of Biscay and private users in Germany, FM too. Please observe and inform your national authorities in such cases. The cheap 2 m-handies from Far East are welcomed by pirates.

6. 3540 kHz – French fishery

French fishery in USB, active every evening. No calls, no idents as usual. The 80 m-band is assigned to Amateur Radio on primary base but not exclusive. This band is not assigned to pirates.

7. 14000 and 21000 – fishery meeting points

Both frequencies were daily abused by Portuguese and Spanish fishery (Galician fellows) I in USB and various times.

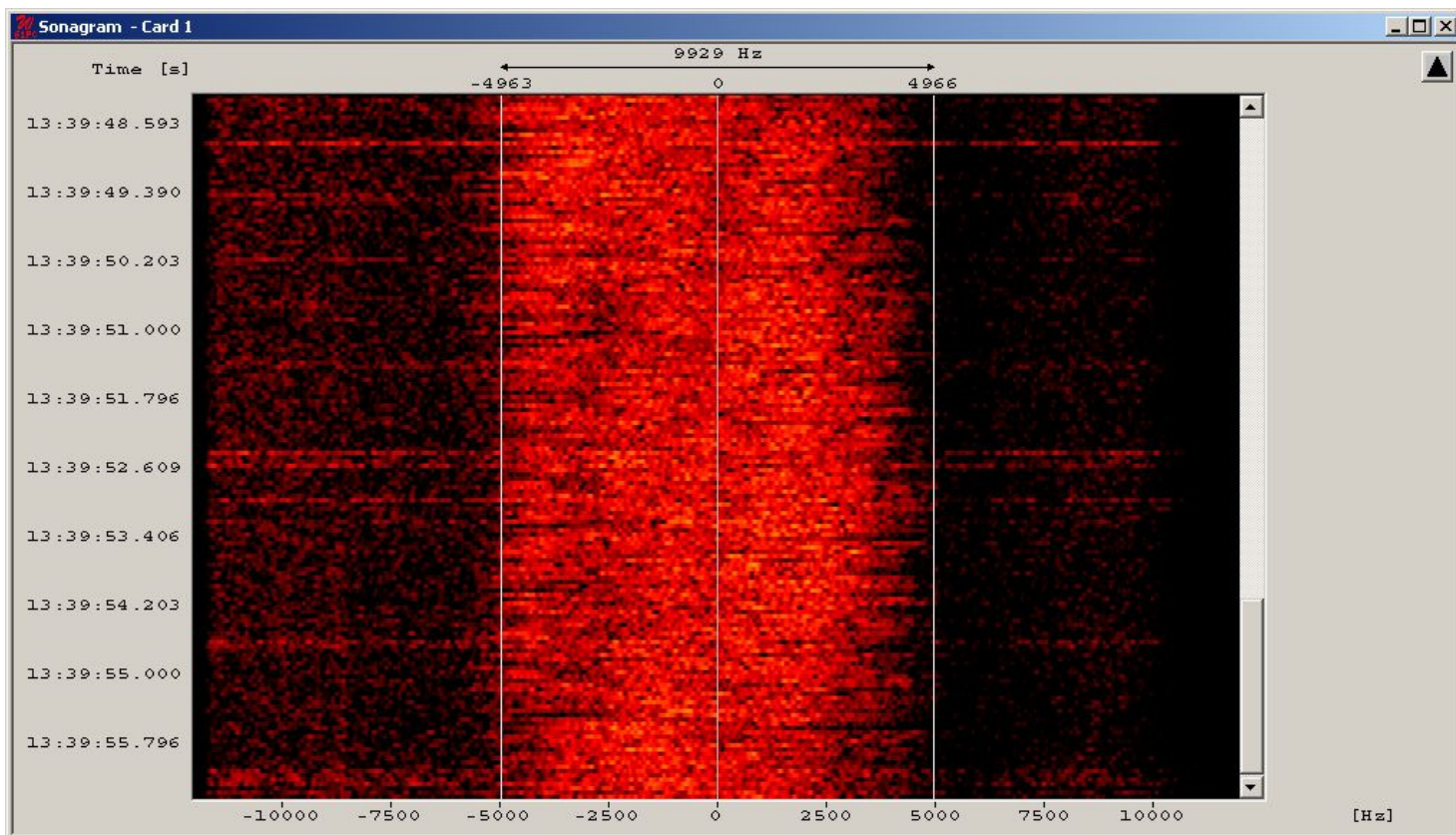
8. Beacon “V” on 7027.5 and 7122 kHz

The “V” beacon on 7027.5 has been found by HB9CET and DK2OM in 2009 the first time. Now we received the beacon again. The signals are rather weak, so you can see them only on the sonagram sometimes. We got reception reports from 5Z4NU, DJ3IW, HB8CET, OE3GSA, PA2GRU, SM7WT, VK4TJ and DK2OM. On 7122 kHz many “V” signals were transmitted at the same time. The gaps between the centered “V” and the “V” below and above had 100 Hz. Possibly spurious elements caused by defective powersupply. The location of both transmissions was Bishkek, Kyrgyzstan, probably Russian military. Both transmissions were synchronous.

soundfile: <http://www.iarums-r1.org/iarums/sound/7027beacon-v.wav> (recording by DK2OM)

9. Digital broadband signal on 21000 kHz

The signal covered about 10 kHz and was active on August 25th all day. Location: Jekaterinburg. **Russian military traffic on our exclusive bands increased during August!**



10. Recommendation: ITU – Technical identification of digital signals - PDF

http://www.itu.int/dms_pubrec/itu-r/rec/sm/R-REC-SM.1600-1-201209-I!!PDF-E.pdf

11. Homepage IARU Region 1

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

Homepage IARUMS Region 1

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

Homepage IARUMS Region 2

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

Homepage IARUMS Region 3

<http://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 AUGUST 2013

The only 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 with a very strong signal.

E.H.M. Alleyne, 5Z4NU

ARSK – Kenya – 5Z4NU (Ted)

H'd by	kHz	UTC	dd	mm	ITU	Ident	Mode	Details
ARSK	7120.0	vt	dly	8	Rep.of Somaliland	Hargeisha		Daily broadcasts.
ARSK	7195.0	0650 to mid-afternoon	dly	8	UGA	Uganda Radio	A3E	B'cast in KiSwahili, music, Luganda & English, to about 1200Z or later.

DARC 1 – Germany – DG0JBJ (Mario)

DG0JBJ (Mario) observed 17 OTH radars on 20 m, 11 OTH radars on 15 m and 2 OTH radars on 10 m (not included the numerous jumping Iran OTH radar emissions) in August 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	2150	16	08	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	08	F		QPSK	100	100	BC-PSK – radio navigation - Nantes
DK2OM	1896,5	2005	13	08	D		PSK8	2400	2400	Stanag4285 – 600 bps long – German Navy - daily
DK2OM	3500,0	1922	22	08	E		USB			Spanish fishery – every evening
DK2OM	3500,3	1903	19	08	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3501,2	1907	07	08	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3502,3	1904	19	08	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3503,5	1922	08	08	G	no ITU	FSK8	125	1750	ALE – "XSS" "XPU" "XJR" – British MIL Tascomm – vt, daily - legal!
DK2OM	3504,0	1943	10	08	RUS		F1B	40.5	200	system Frost1 - Moscow
DK2OM	3509,7	2009	31	08	ISR		PSK4 PSK8	75 2400	2600 2400	hybrid modem – ISR Navy – PSK4 parallel and PSK8 serial
DK2OM	3511,5	1924	22	08	UKR		PSK2	120	2600	AT3004D – submode idle - west

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										of Kiev
DK2OM	3513,0	2132	23	08	RUS		F1B	75	200	Kaliningrad
DK2OM	3520,0	1958	15	08	HOL		USB			Dutch fishery – also: 16.08.2013 at 0735 utc
DK2OM	3525,0	1958	25	08	G		USB			UK fishery
DK2OM	3527,0	2155	07	08	RUS		F1B	50	200	system Frost1 – Severomorsk daily
DK2OM	3531,0	1920	02	08	RUS	REA4	N0N			carrier with spurious emissions, RUS airforce Moscow, ident: 2040 utc – daily, all day
DK2OM	3532,0	1929	22	08	F		PSK4	75	2400	LINK11-CLEW on both sidebands (5800 Hz wide) – area of Brest – legal!
DK2OM	3535,0	0748	16	08	F		USB			French fishery
DK2OM	3540,0	1847	19	08	F		USB			French fishery
DK2OM	3540,0	1910	23	08	E		USB			Spanish fishery
DK2OM	3540,5	1941	08	08			PSK2	120	2600	AT3004D -
DK2OM	3550,0	06	24	08	F		A3E			French amateurs not respecting the bandplans – daily (unstable carriers)
DK2OM	3550,0	vt	vd	08	ALG		FSK8	125	1750	ALE, “IU50” “IU52” “FN50”
DK2OM	3550,0	1914	19	08	F		USB			French fishery
DK2OM	3550,0	1750	24	08	E		USB			Spanish fishery
DK2OM	3553,8	ady	dly	08	TUR		PSK8	2400	2400	Stanag4285 – TUR MIL - Ankara
DK2OM	3555,8	2018	19	08			USB			Scandinavians, engine noise
DK2OM	3585,0	2000	dly	08	TWN	HLL	F1C			120 rpm, IOC 576, Wxfax - daily legal!
DK2OM	3586,0	1953	30	08	RUS		F1B	100	250	unclean signal - Kaliningrad
DK2OM	3587,0	vt	vd	08	E	no ITU	FSK8	125	1750	ALE, “TVV” “TXX” - Spanish Guardia Civil
DK2OM	3590,0	1912	23	08	E		USB			Spanish fishery
DK2OM	3595,0	vt	dly	08	D		FSK8	125	1750	ALE – German customs
DK2OM	3597,0	vt	dly	08	D		PSK8	2400	2400	Link11 SLEW
DK2OM	3617,0	vt	dly	08	HRV	9A5EX	FSK8	125	1750	ALE, “9A5EX” – HAM-ALE - just for info
DK2OM	3622,5	1800	dly	08	J	JMH	F1C			Tokyo Meteo – 120 rpm – IOC576 – daily, legal!!!
DK2OM	3705,0	1844	10	08	RUS		FMCW		30k	OTHR – 43.5 sps – 3705 – 3735 kHz - Makhachkala – Caspian Sea – also: 15.08.2013 at 2005 utc
DK2OM	3705,0	1947	12	08	RUS		FMCW		35k	OTHR – 43.5 sps – 3705 – 3740 kHz – Makhachkala – Caspian Sea
DK2OM	3756,0	ady	dly	08	UKR		A3E			UKR – pip – 14 tones – hyperbolic navigation system – BRAS-2/RS-10
DK2OM	3761,5	vt	vd	08	POL		FSK8	125	1750	ALE, “NI9” “PL7” “AB2” – Polish MIL
DK2OM	3767,0	1940	29	08	RUS		PSK2A	120	2600	AT3004D - Kaliningrad
DK2OM	3770,0	1826	18	08	RUS		FMCW		35k	OTHR – 43.5 sps – 3770 – 3805 kHz – Makhachkala – Caspian Sea
DK2OM	3775,0	1935	21	08	RUS		FMCW		30k	OTHR – 43.5 sps – 3775 – 3805 kHz - Makhachkala – Caspian Sea – also: 24.08.2013 at 1818 utc
DK2OM	3775,0	1827	23	08	RUS		FMCW		30k	OTHR – 43.5 sps – 3775 – 3805 kHz – Makhachkala – Caspian Sea
DK2OM	3782,0	ady	dly	08	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	08	D	DK0ESD	FSK8	125	1750	ALE, “DK0ESD” – just for info!
DK2OM	3797,0	1756	27	08	RUS		PSK2	120	2600	AT3004D - Kaliningrad
DK2OM	7000,0	1930	02	08	ISR		N0N			carrier with spurious in 50 Hz increments - daily

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	7000,0	1832	26	08			LSB			Scandinavian pirates
DK2OM	7000,0	1834	26	08	UKR	D	A1A			Cluster beacon – Sevastopol RUS Navy – “RCV” – spurious from 7038.7 kHz
DK2OM	7005,0	1748	22	08	FEa		LSB			Far East pirates
DK2OM	7020,0	vt	vd	08			FSK8	125	1750	ALE, “CS5004A” “RS0013D” – NC3A network? – area of Kosovo
DK2OM	7020,0	1453	04	08	INS		USB LSB			Indonesian pirates – village radio - daily
DK2OM	7027,5	1658	19	08	KGZ		A1A			beacon “V” - Bishkek
DK2OM	7032,0	1658	06	08	RUS		PSK2A	120	2600	AT3004D - Smolensk
DK2OM	7038,7	2013	15	08	UKR	D	A1A			Cluster beacon – Sevastopol RUS Navy – “RCV”
DK2OM	7038,8	---	---	08	RUS	P	A1A			Cluster beacon – Kaliningrad RUS Navy – “RMP” - defective on July 5 th
DK2OM	7038,9	2013	15	08	RUS	S	A1A			Cluster beacon – Severomorsk RUS Navy – „RIT“
DK2OM	7039,0	---	---	08	RUS	C	A1A			Cluster beacon - Moscow RUS Navy - “RIW”
DK2OM	7039,1	---	---	08	KGZ	A	A1A			Cluster beacon – Bishkek RUS Navy – “RJH25”
DK2OM	7039,2	ady	dly	08	RUS	F	A1A			Cluster beacon - Vladivostok RUS Navy - “RJS”
DK2OM	7039,3	ady	dly	08	RUS	K	A1A			Cluster beacon - Petropavlovsk Kamchatskiy - RUS Navy - Pacific fleet - “RCC”
DK2OM	7039,4	ady	dly	08	RUS	M	A1A			Cluster beacon – Magadan RUS Navy – „RTS“
DK2OM	7039,95	ady	dly	08	I	IZ3DVW	A1A			IZ3DVW – uncoordinated beacon, daily, all day
DK2OM	7040,0	vt	dly	08	F	F6BAZ	FSK8	125	1750	ALE, “F6BAZ” – just for info
DK2OM	7040,5	vt	dly	08	HRV		FSK8	125	1750	ALE, “9A5EX” “9A0ALE” – just for info
DK2OM	7049,5	vt	dly	08	HRV	9A0ALE	FSK8	1250	1750	Amateur ALE, just for info!
DK2OM	7054,0	---	---	08	RUS		F1B	50	200	CIS50-50 - RUS Navy Moscow – not active
DK2OM	7055,5	10	2208	08	GEO		FSK8	125	1750	ALE, “111” “132” “133” - Georgia
DK2OM	7057,3	0331	12	08	GEO		PSK8	2400	2400	MIL-188-110A – West Georgia
DK2OM	7070,0	vt	vd	08	GEO	no ITU	FSK8	125	1750	ALE, “MV” “244” “686” “334” “204”
DK2OM	7080,0	0300	21	08	RUS		A1A			RMW46, RGR87, RGR90 - Moscow
DK2OM	7088,0	2030	07	08	N. Sea		F1B	75	200	Russian ship, North Sea, west of Tromsø
DK2OM	7091,5	0808	28	08	UKR		F1B	40.5	250	system Frost1 - Lviv
DK2OM	7099,5	vt	vd	08	HRV	9A0ZG	FSK8	125	1750	ALE, “9A0ZG” “9A5EX” “9A0OS” – just for info!
DK2OM	7102,0	0604	29	08	HRV SUI D	9A0ALE	FSK8	125	1750	ALE, “9A0ALE” “HB9MHB” “9A0ZG” “DK0ESD” – just for info!
DK2OM	7110,0	vt	dly	08	HRV	9A0ALE	FSK8	125	1750	ALE, “9A0ALE” – just for info
DK2OM	7110,0	1530	05	08	UKR	RCV	PSK2A	120	2600	AT3004D – RUS Navy Sevastopol – also: 23.08.2013 at 0305 utc
DK2OM	7110,0	2123	28	08	CHN		FMCW		10k	Chinese OTH radar - 66.7 sps - 3.7 sec bursts
DK2OM	7115,0	2123	28	08	CHN		FMCW		10k	Chinese OTH radar - 66.7 sps - 3.7 sec bursts
DK2OM	7120,0	1700	dly	08	SOM		A3E		9k	Radio Hargaysa Somalia, daily
DK2OM	7122,0	2028	22	08	KGZ	V	A1A			beacon “V” - Bishkek - rough sounding signal, synchronous with 7027.5 kHz – even audible in Japan
DK2OM	7132,0	1828	26	08	RUS		PSK2A	120	2600	AT3004D – Voronezh
DK2OM	7140,0	1759	22	08			PSK2	120	2600	AT3004D - Kaliningrad

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	7146,0	1040	31	08	UKR		PSK2A	120	2600	AT3004D - Sevastopol
DK2OM	7152,5	1611	17	08	RUS		F1B	75	250	Kaliningrad
DK2OM	7156,0	0430	21	08	UKR		PSK2A	120	2600	AT3004D - Sevastopol
DK2OM	7162,0	1612	21	08	RUS		F1B	75	250	Kaliningrad – space QRG disturbed by an amateur in North Germany
DK2OM	7174,6	1850	11	08	IRN		A3E			spurious from IRIB Tehran on 7240 kHz
DK2OM	7178,0	0609	07	08	RUS		PSK2A	120	2600	AT3004D – Volgograd
DK2OM	7184,0	2050	08	08	UKR		PSK2A	120	2600	AT3004D – Sevastopol – RUS navy
DK2OM	7185,5	vt	dly	08	D HRV		FSK8	125	1750	ALE, “9A5EX” “DK0ESD” just for info - daily
DK2OM	7186,0	1525	05	08	RUS	RIT	PSK2A	120	2600	AT3004D – Severomorsk – also: 12.08.2013 at 1820 utc
DK2OM	7197,0	vt	vd	08	TUR		FSK8	125	1750	ALE, “8241” “206102” “8151” “3021” “3761” “8021” “8141” – Turkish Sivil Avunma = Turkish Civil Defense - source: DL8AAM
DK2OM	7197,0	1830	dly	08	RUS		PSK2	62	2800	7197 – 7199.8 kHz - broadband PSK signal from Radio Rossii on 7215 kHz – also: 7230 kHz - daily
DK2OM	7197,0	1425	06	08	UKR		PSK2A	120	2600	AT3004D – Sevastopol – RUS navy
DK2OM	7200,0	2200	28	08	CHN TWN		A3E			2 BCs in Chinese language – Chinese BC and SOH
DK2OM	10100,8	ady	dly	08	D		F1B	50	450	Baudot - German Weatherservice – legal!
DK2OM	10112,0	ady	dly	08	TUR		PSK8	2400	2400	Stanag4285 – 600 bps long – NE of Izmir
DK2OM	10113,0	vt	dly	08	TUN	no ITU	FSK8	125	1750	ALE, “TUD”
DK2OM	10114,8	0609	15	08	RUS		F1B	100	1000	CIS14 – Penza - daily
DK2OM	10118,0	1533	07	08	RUS		F1B	75	250	Moscow - daily
DK2OM	10120,0	1349	04	08	RUS		PSK2A	120	2600	AT3004D – Smolensk – also: 16.08.2013 at 1650 utc
DK2OM	10120,0	0843	14	08	UKR		A3E			female voice with encrypted msgs – figures – “SZRU” = Foreign Intelligence Service of Ukraine at Rivne – every Wednesday – carrier at 0830 utc – msg at 0843 utc
DK2OM	10130,0	vt	dly	08			FSK8	125	1750	Thales 3000
DK2OM	10136,0	1920	13	07	RUS		F1B	50	200	Far East Russia – also: 24.07.2013 at 1740 utc
DK2OM	10144,0	1600	01	08	D	DK0WCY	A1A			10143.986 kHz - DK0WCY – German aurora beacon – just for info!
DK2OM	10145,0	0655	31	08	RUS		PSK4B	120	2600	AT3104D – Moscow
DK2OM	10145,5	vt	vd	08	HRV S / D	9A5EX	FSK8	125	1750	ALE, “9A5EX” “SM5VRH” “DK0ESD” - just for info
DK2OM	10146,0	1536	07	08	RUS		PSK4B	120	2600	AT3104D - Irkutsk
DK2OM	10150,0	1914	13	08			Super darn			Superdarn – ionospheric radar
DK2OM	14000,0	1420	01	08	E		USB			Spanish fishery
DK2OM	14000,0	1840	01	08			FSK8	125	1750	ALE, “1Ns” “Xm” – 60 deg.
DK2OM	14000,0	1607	26	08	E		USB			Spanish fishery
DK2OM	14001,0	vt	dly	08	CHN		FSK8	125	1750	ALE, “397”
DK2OM	14001,8	0427	24	08	SDN		PSK8	2400	2400	MIL-188-110A – Juba – South Sudan
DK2OM	14002,2	2126	06	08	CLN		LSB			Sri Lanka pirates
DK2OM	14005,6	2200	08	08	FEa		USB			Far East pirates
DK2OM	14008,0	0736	04	08	RUS		F1B	50	250	Moscow
DK2OM	14011,0	2122	18	08	INS		USB			Indonesian pirates
DK2OM	14020,0	2123	18	08	INS		USB			Indonesian pirates
DK2OM	14026,0	1934	03	08	RUS		PSK2A	120	2600	AT3004D – Moscow – traffic and submode idle – various days

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	14040,0	1338	09	08	RUS		F1B	75	250	Kaliningrad - daily
DK2OM	14060,0	vt	vd	08	ISR		FSK8	125	1750	ALE, "AAA" - Israel
DK2OM	14063,0	0520	01	08	CHN		FMCW		10k	Chinese OTH burst radar
DK2OM	14064,0	0657	13	08			F1B	50	250	dirty signal -
DK2OM	14090,0	0500	04	08	E		USB			female persons in Spanish voice
DK2OM	14094,0	0818	03	08	GRC		A3E			IM product, Voice of Greece at Avlis, reported by DJ9KR – confirmed by DK2OM at 1845 utc – same as on 15650 kHz
DK2OM	14108,0	vt	vd	08	RUS		A1A			idents: PCM, 1QID, T2GW, 5BB2 – RUS MIL Moscow
DK2OM	14109,0	0827	17	08	ISR	4X1	FSK8	125	1750	ALE, "4X1" "CT2IXQ" – just for info!
DK2OM	14116,0	1005	09	08	RUS		F1B	75	250	Far East Russia
DK2OM	14140,0	0945	31	08	RUS		PSK2A	120	2600	AT3004D - Krasnoyarsk
DK2OM	14150,0	0900	26	08	RUS		FMCW		20k	OTH radar – 50 sps - Moscow
DK2OM	14162,0	0919	02	08			PSK2A	120	2600	AT3004D – Velikiye Luki
DK2OM	14171,0	0633	20	08	RUS		PSK2A	120	2600	AT3004D – Velikiye Luki
DK2OM	14192,0	vt	vd	08	RUS		F1B	50	200	RUS Navy Kaliningrad – often daily
DK2OM	14192,0	0920	08	08	RUS		F1B	125	200	RUS Navy Kaliningrad
DK2OM	14193,0	0510	01	08	CHN		FMCW		10k	Chinese OTH burst radar
DK2OM	14205,0	vt	dly	08		no ITU	FSK8	125	1750	ALE, "505" "822" – 60 deg. from DL - CHN ?
DK2OM	14221,0	2108	15	08	KGZ		F1B	41.9	200	Bishkek
DK2OM	14240,0	0740	04	08	RUS		F1B	75	250	Moscow– also: 08.08.2013 at 1034 utc - daily
DK2OM	14260,0	vt	dly	08	SRB		FSK8	125	1750	ALE, "YU1BI" – just for info!
DK2OM	14264,2	0100	01	08	CLN		LSB			Sri Lanka pirates
DK2OM	14265,0	vt	vd	08	TUR		FSK8	125	1750	ALE, "526"
DK2OM	14280,0	0920	08	08						frequency hopper
DK2OM	14292,0	0904	01	08	RUS		F1B	75	500	Shelkovo, east of Moscow
DK2OM	14295,0	vt	dly	08	SRB	YU1BI	FSK8	125	1750	ALE, "YU1BI" – just for info!
DK2OM	14295,0	0826	19	08	RUS		FMCW		10k	OTH radar – 50 sps – long lasting – east of Moscow
DK2OM	14295,1	ady	dly	08	TJK		A3E			3 rd from Radio Tajik on 4765 kHz
DK2OM	14298,0	0845	14	08			unid		3000	unid broadband signal, 60 deg. from DL
DK2OM	14305,0	0515	01	08	CHN		FMCW		10k	Chinese OTH burst radar
DK2OM	14317,0	vt	vd	08	UKR	RCV	A1A			RUS naval base Sevastopol - encrypted, cyrillic letters
DK2OM	14318,6	0750	31	08	RUS		F1B	600 1200	600 1200	DPRK-FSK 600 DPRK-FSK 1200 – North Korean emba Moscow
DK2OM	14344,7	ady	dly	08	CHN		OFDM		2400	similar MIL-188-110A preamble – 14344.650 kHz – 49 tones
DK2OM	14346,0	vt	dly	08	HRV RUS D		FSK8	125	1750	ALE, "9A0ZG" "RX3ARZ" "DK0ESD" – just for info – various times, daily
DK2OM	14346,0	vt	dly	08	THA	HS0ZEA	A1A			HS0ZEA beacon – 14345.950 kHz - every 5 minutes – just for info!
DK2OM	18070,0	0815	28	08	CYP		FMCW		20k	OTH radar Cyprus – 50 sps
DK2OM	18107,0	vt	vd	08	RUS	RDL	F1B	50	200	Moscow – idle and traffic – Russian navy – various days and times – legal operation
DK2OM	18140,0	vt	dly	08	SRB	YU1BI	FSK8	125	2600	ALE, "YU1BI" – just for info!
DK2OM	21000,0	1704	03	08	CLN		USB			Sinhala fishery
DK2OM	21000,0	1637	12	08	SDN		USB			MFA Sudan – Khartoum with emba Yemen – voice traffic
DK2OM	21000,0	0815	05	08	CHN		unknown			mysterious chirps – 21000 – 21200 kHz
DK2OM	21000,0	1420	14	08						frequency hopper
DK2OM	21000,0	0730	25	08	RUS		unknown			digital broadband signal – 10 kHz wide - Jekaterinburg
DK2OM	21000,0	0910	25	08	E		USB			Spanish fishery, Galician voice, daily, various times

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	21000,0	0930	29	08	POR		USB			Portuguese fishery – ship engine audible
DK2OM	21000,0	1824	30	08						frequency hopper
DK2OM	21002,1	1636	12	08	SDN		F1B	100	170	21002.15 kHz - Pactor 1 encrypted – MFA Sudan – Khartoum with emba Yemen
DK2OM	21010,3	1644	12	08	FEa		USB			Far East pirates
DK2OM	21096,0	vt	dly	08	INS	YD00XH	FSK8	125	1750	ALE, “YD00XH3” – daily, various times - just for info!
DK2OM	21132,0	1933	02	08						frequency hopper
DK2OM	21145,0	vt	dly	08	MRC		FSK8	125	1750	ALE, “B301”, “C3”, “IR4” “T4” “E4” “A2” “CD” “K3” – various times, daily
DK2OM	21210,0	0655	24	08	AUS		FMCW		10k	OTH radar JORN - 34.5 and 29.4 sps – 2 sec bursts
DK2OM	21235,0	0612	07	08	AUS		FMCW		10k	OTH Radar JORN bursts with different sweeprates
DK2OM	21240,0	0719	08	08	AUS		FMCW		10k	OTH Radar JORN bursts
DK2OM	21263,0	0120	01	08	AUS		FMCW		20k	OTH Radar JORN bursts
DK2OM	21290,0	0637	08	08	CHN		FMCW		10k	OTH radar – 35.7, 33.3, 30.3 sps bursts
DK2OM	21300,0	0820	05	08	AUS		FMCW		10k	OTH Radar JORN bursts
DK2OM	21384,0	0722	09	08	CHN		FMCW		10k	OTH radar - 48 sps bursts
DK2OM	21395,0	0911	18	08	?		A3E			BC spurious
DK2OM	21400,0	0755	24	08	CHN		unknown		10k	digital broadband signal – 10 kHz wide
DK2OM	21422,3	0908	18	08			A3E			BC spurious
DK2OM	21438,0	vt	dly	08	UKR	RCV	A1A			RIP90 de RCV - RUS Navy Sevastopol - daily
DK2OM	21446,0	ady	dly	08	THA	HS0ZEA	A1A			HS0ZEA beacon – every 5 minutes - just for info!
DK2OM	25000,0	1505	21	08	FIN		A3E			time signal Helsinki – just for info – carrier on 25000 – dots on 25001 and 24999 – daily, all day
DK2OM	28000,0	vt	dly	08	B		A3E			28000 – 28325 numerous Brazilian CBers
DK2OM	28000,0	vt	dly	08	CIS		F3E			28000 – 29700 numerous CIS taxi nets
DK2OM	28000,0	vt	dly	08	IRN		FMCW		60k	OTH Radar Iran – 307 and 870 sps – jumping between 28000 and 29700 kHz daily
DK2OM	28000,0	1614	01	08	MEa		A3E		8000	carrier on 28000.0 and 7 dots on each sidebands (master and slave) – 8 kHz wide – 120 deg from DL – hyperbolic navigation system (BRAS-3 or RS-10)
DK2OM	28001,0	1447	07	08			unknown			mysterious oscillation, very unstable, long lasting - southwest
DK2OM	28005,0	1905	05	08	E		A3E			Spanish CBers – daily
DK2OM	28005,0	0845	01	08	RUS		F3E			taxi net St. Peterburg, daily, all day
DK2OM	28005,0	1824	26	08	B		A3E			Brazilian CBers
DK2OM	28030,0	1015	06	08	POR		F1B	51	320	F1B bursts - west of Lisbon
DK2OM	28035,0	1937	02	08	B		A3E			Brazilian CBers
DK2OM	28040,1	2001	02	08	POR		F1B	51	320	F1B bursts – west of Lisbon, daily, all day – Enagal GPS buoy
DK2OM	28040,1	2002	02	08	POR		F1B	51	320	F1B bursts - west of Lisbon – Enagal GPS buoys
DK2OM	28045,0	1936	05	08	B		A3E			Brazilian CBers
DK2OM	28065,0	2006	02	08	B		A3E			Brazilian CBers
DK2OM	28075,0	1941	02	08	B		A3E			Brazilian CBers
DK2OM	28085,0	1920	05	08	B		A3E			Brazilian CBers
DK2OM	28100,2	1956	02	08	POR		F1B	51	320	F1B bursts - 28100.160 kHz - west of Lisbon – Enagal GPS buoys
DK2OM	28105,0	2006	02	08	B		A3E			Brazilian CBers
DK2OM	28115,0	1943	02	08	B		A3E			Brazilian CBers
DK2OM	28135,0	1628	01	08	RUS		F3E			taxi – Caucasus, daily

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	28145,0	1837	03	08	RUS		F3E			taxi – Caucasus, daily, all day
DK2OM	28145,0	1117	09	08	E		A3E			Spanish CBers – daily, every morning
DK2OM	28145,0	1934	05	08	B		A3E			Brazilian CBers
DK2OM	28146,0	vt	vd	08	ARG B		FSK8	125	1750	ALE, “LU8EX” “PY2TI” “DL1” – just for info!
DK2OM	28150,0	1635	26	08	E		F3E			Spanish CBers
DK2OM	28165,0	2007	02	08	B		A3E			Brazilian CBers
DK2OM	28175,0	1943	02	08	B		A3E			Brazilian CBers
DK2OM	28175,0	0958	22	08	E		A3E			Spanish CBers
DK2OM	28185,0	1949	02	08	B		A3E			Brazilian CBers
DK2OM	28185,6	vt	vd	08	SAm		F1B	302.0	202	data bursts – South America – daily, all day
DK2OM	28200,0	vt	dly	08	POR		F1B	51	320	F1B bursts - west of Lisbon
DK2OM	28205,0	1919	05	08	B		A3E			Brazilian CBers
DK2OM	28235,0	1948	02	08	B		A3E			Brazilian CBers
DK2OM	28245,0	1913	05	08	B		A3E			Brazilian CBers
DK2OM	28250,3	0938	22	08	GAB		A3E		1800	carrier and dots in USB and LSB, bursts every 60 sec – 28250.255 kHz carrier – Gabon – daily and all day
DK2OM	28255,0	2007	02	08	B		A3E			Brazilian CBers
DK2OM	28270,0	1819	26	08	B		A3E			Brazilian CBers
DK2OM	28285,0	1657	26	08	RUS		F3E			taxi – Rostov na Donu
DK2OM	28285,0	1921	05	08	B		A3E			Brazilian CBers
DK2OM	28285,0	1035	28	08	E		A3E			Spanish CBers
DK2OM	28295,8	1422	24	08	E		LSB			Spanish CBers – roger beep
DK2OM	28305,0	vt	dly	08	RUS		F3E			taxi - Krasnodar
DK2OM	28305,0	1820	26	08	B		A3E			Brazilian CBers
DK2OM	28315,0	1945	02	08	B		A3E			Brazilian CBers
DK2OM	28315,0	0910	06	08	I		A3E			Italian CBers
DK2OM	28322,0	1922	05	08	B		A3E			Brazilian CBers
DK2OM	28460,0	1826	08	08	GAB		A3E		1000	carrier and dots in USB and LSB, bursts every 60 sec – Gabon – daily and all day
DK2OM	29005,0	0855	07	08	I		A3E			Italian CBers
DK2OM	29015,0	0859	07	08	I		A3E			Italian CBers
DK2OM	29250,0	---	---	08	E		F1B	81.9	140	Datawell-buoy “Waverider” – 29249.907 kHz – Fuerteventura - daily, all day
DK2OM	29375,0	---	--	08	I		F1B	81.9	140	Datawell-buoy “Waverider” – 29374.898 kHz – Galatone, South Italy - daily, all day
DK2OM	29387,5	---	--	08	IND		F1B	81.9	140	Datawell-buoy “Waverider” – 29387,460 kHz – Indian NW coast, close to Pakistan - daily, all day
DK2OM	29450,0	---	--	08	MRC		F1B	81.9	140	Datawell-buoy “Waverider” – 29449.963 kHz - area of El Aaiun – Morocco - daily, all day
DK2OM	29500,0	1014	11	08	G		F1B	81.9	140	Datawell-buoy “Waverider” – area of Gibraltar – daily, all day
DK2OM	29525,0	---	---	08	MRC		F1B	81.9	140	Datawell-buoy “Waverider” – 29524.990 kHz - Agadir - Morocco – daily, all day
DK2OM	29684,8	0900	07	08	I		serial			serial modem, Italian MIL Brescia – Sporadic E!
DK2OM	29699,8	0900	07	08	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	SH	DETAILS
MRASZ	3505,0	1821	2	8			???		digital SSTV
MRASZ	3549,3	1948	29	8			N0N		
MRASZ	7000,0	1847	21	8			N0N		
MRASZ	7000,0	1845	23	8			N0N		
MRASZ	7000,0	1820	26	8	UKR	D	A1A		"D" beacon
MRASZ	7000,1	1829	2	8			N0N		as a line hum; also on day 7, 10
MRASZ	7000,1	1739	23	8			LSB		italian non HAM male's
MRASZ	7016,0	0924	16	8			BPSK		AT3004D
MRASZ	7018,0	0835	23	8			N0N		
MRASZ	7027,5	1915	6	8	KGZ	V	A1A		"V" beacon on days 7, 23, 25, 29
MRASZ	7032,0	1914	6	8			BPSK		AT3004D
MRASZ	7032,0	1840	10	8			BPSK		AT3004D
MRASZ	7038,7	ady	dly	8	UKR	D	A1A		"D" beacon
MRASZ	7038,8	1257	7	8	RUS	P	A1A		"P" beacon
MRASZ	7038,9	ady	dly	8	RUS	S	A1A		"S" beacon
MRASZ	7070,0	1603	17	8			A3E		uni. music
MRASZ	7091,5	1815	2	8			N0N		
MRASZ	7091,5	0959	14	8			F1B	250	iddling
MRASZ	7092,0	1139	23	8			BPSK		AT3004D
MRASZ	7120,0	ady	dly	8	SOM		A3E		"Radio Hargaysa", daily
MRASZ	7132,0	ady	26	8			BPSK		AT3004D also on days: 27,29,30
MRASZ	7159,8	1551	26	8			N0N		
MRASZ	14008,0	1123	1	8	RUS		F1B	250	
MRASZ	14058,1	1235	11	8			A1A		"VVV +"
MRASZ	14070,0	1831	10	8			USB		uni. male/female
MRASZ	14071,0	0848	27	8			USB		"agyin, dva, raz, dva" russian lang.
MRASZ	14138,0	1442	17	8			BPSK		AT3004D
MRASZ	14192,0	1246	6	8	RUS		F1B	200	
MRASZ	14292,0	1125	1	8	RUS		F1B	200	
MRASZ	14292,0	0751	2	8	RUS		F1B	200	
MRASZ	14295,0	1812	2	8	TJK		A3E		3rd. harmonic fm 4765 kHz
MRASZ	14295,0	1853	7	8	TJK		A3E		3rd. harmonic fm 4765 kHz
MRASZ	14295,0	1810	30	8	TJK		A3E		3rd. harmonic fm 4765 kHz
MRASZ	18070,0	1752	23	8			OTHR		till 18095 kHz

OEVSV – Austria – OE3GSA (Gerd)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
oevsv	3550.0	0525	29	08	unid	unid	A3E			males chatting
oevsv	7006.5	0600	12	08	unid	unid	F1B		200	QJG K in A1A at the end
oevsv	7027.5	1550	22	08		V	A1A			579 max
oevsv	7027.5	2040	24	08		V	A1A			
oevsv	7088.8	0605	28	08	unid	unid	A1A			unid alphabet
oevsv	14092.0	0545	29	08	unid	unid	A1A			groups of 5
oevsv	14191.0	0715	08	08	RUS	unid	F1B			
oevsv	14239.0	0545	13	08		unid	F1B	50	200	
oevsv	18090.0	0530	21	08	unid	unid	FMCW			band unusable
oevsv	28065.0	1955	13	08	unid	unid	A3E			males in portuguese

PZK – Poland – SP3UZ (Wladyslaw)

REP – Portugal – CT4AN (Jose Francisco)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REP	3500,0	07.23	15	08	E		J3E-U			Fishermen
REP	3515,0	20.36	10	08			J3E-U			Fishermen
REP	3525,0	08.44	28	08			J3E-U			Unid ssb ops
REP	3535,0	20.14	15	08			J3E-U			Unid ops
REP	3545,0	18.26	22	08			J3E-U			Unid language fishery
REP	3702,0	07.58	15	08	RUS		J3E-U			Navy comms
REP	3790,0	08.11	08	08	E		J3E-U			Spanish fishery
REP	7012,5	07.55	24	08	E		J3E-U			Fishermen talking with family
REP	7038,6	20.05	11	08	RUS	S	A1A			KALININGRAD, ADY, DLY
REP	7038,7	23.00	09	08	UKR	D	A1A			SEVASTOPOL, ADY, DLY
REP	7038,8	23.11	09	08	RUS	P	A1A			MURMANSK, ADY, DLY
REP	7039,0	23.19	09	08	RUS	C	A1A			MOSCOW, ADY, DLY
REP	7039,1	20.18	11	08	RUS	A	A1A			VOLGOGRAD, ADY, DLY
REP	7039,2	22.44	11	08	RUS	F	A1A			KAMCHATSKY, ADY, DLY
REP	7039,3	21.02	14	08	RUS	K	A1A			VOLGOGRAD, ADY, DLY
REP	7039,5	22.00	14	08	RUS	M	A1A			MAGADAN, ADY, DLY
REP	7040,0	22.30	19	08	E		J3E-U			Fishermen
REP	7070,0	17.10	22	08	I		J3E-L			Music jamming QSOs on freq.
REP	7070,0	06.56	23	08			J3E-L			Music jammer
REP	10100,0	22.19	02	08			A3E			Number Station - 5 letters
REP	10115,0	22.37	02	08			A1A			Number Station – 6 digit
REP	10120,0	14.22	01	08	MRC		J3E-U			Many morrocan fishermen
REP	10131,0	18.33	03	08			FMCW			OTH radar
REP	10145,0	21.00	04	08			FMCW			OTH radar
REP	14000,0	10.31	08	08			F1B	300	425	RY
REP	14005,0	12.15	16	08			F1B	75	500	Unid FSK
REP	14008,0	07.57	21	08	RUS		F1B	50	250	Russian unid F1B system
REP	14153,0	20.58	01	08	I		J3E-U			Talks ship to ship
REP	14180,0	06.50	20	08			FMCW			OTH Radar 20kHz / 50Hz
REP	14185,0	16.04	06	08			J3E-U			Music jamming QSOs
REP	14195,0	11.28	05	08	RUS		F1B	50	250	Encrypted russian FSK
REP	14238,0	21.40	9	08			F1B	75	250	Unid F1B encrypted
REP	18100,0	19.00	18	08	B		J3E-U			Brazilian intruders
REP	21001,5	13.45	12	08	RUS		F1B	100	150	vocoder "Yakhta" daily
REP	21020,0	07.07	23	08			FMCW			OTH radar 20kHz
REP	21205,0	13.47	16	08	P		J3E-U			Portuguese fishermen
REP	28000,0	19.19	11	08	B		J3E-U			Brazilian ops disturbing QRSS
REP	28040,0	Dly	Dly	08			F1B	51	300	Buoy cluster, 2 units few Hz apart
REP	28075,0	18.58	30	08			FMCW			Iranian OTH radar, Brazil AM ops
REP	28100,0	07.13	13	08			J3E-U			Unid op tuning QRO, counting
REP	28170,0	08.26	3	08	F		J3E			French freebanders
REP	28175,0	10.51	23	08			F3E			CIS taxis and fishermen
REP	28195,0	12.44	11	08			F3E			YL taxi dispatcher
REP	28265,0	09.46	11	08			F3E			CIS taxi dispatchers
REP	28475,0	18.45	15	08	P		A3E			Portuguese fishermen
REP	28500,0	07.45	19	08	P		A3E			Portuguese fishermen
REP	28500,0	Dly	Dly	08	MRC		F1B	82	140	Buoy outside the port of Tanger
REP	28700,0	15.04	20	08	B		A3E			Brazilian pirates
REP	28715,0	15.30	20	08			F3E			CIS taxi dispatcher
REP	28815,0	14.54	21	08			F3E			CIS taxi dispatcher
REP	28940,0	07.11	14	08	P		J3E-U			Portuguese fishermen, repeat mutual offences
REP	29125,0	08.02	21	08	RUS		F3E			Russian taxi dispatcher
REP	29265,0	18.25	21	08			FMCW			OTH radar 20khz 25Hz
REP	29690,0	17.11	2	08			J3E			Far East fishermen
REP	28x 29x	Dly	Dly	08	RUS		F3E A3E			Daily mess of Russian taxis and Brazilian CB's

SRAL – Finland – OH2BLU (Pekka)

Society	QRG	TIME	DD	MM	CTRY	IDENT	MODE	BD	SH	REMARKS
SRAL	7000,0	1400-0700	1.-11.	8	ISR	UiPTR	F1B		200	50 Hz dotter
SRAL	7000,0	1530-0600	19.-25.	8		UiCarr	N0N			
SRAL	7000,0	0650-0810	1. 4.	8		UiMUX	PSK2	120	2600	
SRAL	7008,0	0600-1430	*	8		UiPTR	F1B		250	Days: 2. 12. 13. 19. 31.
SRAL	7010,0	1555-1635	26.	8		UiMUX	PSK2	120	2600	
SRAL	7010,75	0655-0740	23.	8		UiCarr	N0N			
SRAL	7013,0	0800-0840	20.	8		UiMUX	PSK2	120	2600	
SRAL	7016,0	0600-1410	12. 21.	8		UiPTR	F1B		200	
SRAL	7018,0	0845	23.	8		UiPTR	F1A			xxx- msg
SRAL	7022,0	1900-0700	4. 8.	8		UiPTR	F1B		200	
SRAL	7022,0	1355-1415	18.	8		UiMUX	PSK2	120	2600	
SRAL	7027,0	1920	26.	8		UiMUX	PSK2	120	2600	
SRAL	7031,0	0835	12.	8		UiPTR	F1B			
SRAL	7032,0	h24	1.-19.	8	RUS	UiMUX	PSK2	120	2600	
SRAL	7034,0	1400	11.	8		UiPTR	F1B			
SRAL	7037,0	0900-1420	3. 4.	8		UiMUX	PSK2	120	2600	
SRAL	7038,7	h24	dly	8	UKR	D	A1A			Sevastopol
SRAL	7038,8	0440-1930	*	8	RUS	P	A1A			Kaliningrad, days: 1. 7. 8. 22. 25. 26. 25Hz mod. on 22. & 25.
SRAL	7038,9	h24	dly	8	RUS	S	A1A			Severomorsk
SRAL	7039,0	0315-1815	*	8	RUS	C	A1A			Moscow, days: 3. 10. 11. 13. 14. 18. 19. 20. 22. 24.
SRAL	7042,0	1340	11.	8		UiPTR	F1B			
SRAL	7044,0	0930-1620	3. 30.	8		PSLB	A1A			MR 5F
SRAL	7045,0	1010-1652/	23.	8		UiCarr	N0N			
SRAL	7048,5	0420	14.	8		UiCW	A1A			MR 5BL
SRAL	7054,0	0325	22.	8		UiMUX	PSK2	120	2600	
SRAL	7059,0	1635	7.	8		UiMUX	PSK2	120	2600	
SRAL	7060,0	1030	21.	8		UiMUX	PSK2	120	2600	
SRAL	7070,5	1435	12.	8		UiPTR	F1B		250	idling
SRAL	7075,0	1015-1930	9. 18.	8		UiMUX	PSK2	120	2600	
SRAL	7086,4	0800-1030	21. 29.	8		UiPTR	F1B		500	
SRAL	7088,0	0345-0700	9.	8		UiPTR	F1B			
SRAL	7090,0	2250	27.	8		UiMUX	PSK2	120	2600	
SRAL	7091,5	0940-1853/	*	8		UiPTR	F1B/ N0N		250	Idling, days: 1. 2. 4. 11. 18. 23. 27.
SRAL	7093,5	0935	12.	8		UiMUX	PSK2	120	2600	
SRAL	7099,0	0600	27.	8		UiMUX	PSK2	120	2600	
SRAL	7102,5	1630-0245	3. 4.	8		UiMUX	PSK2	120	2600	
SRAL	7105,0	1050	8.	8		UiCW	A1A			MR 5F
SRAL	7110,0	1800-1930	5.	8		UiMUX	PSK2	120	2600	
SRAL	7110,5	1630-1930	14.	8		UiPTR	F1B		500	
SRAL	7113,9	1430-1930	14.	8		UiCarr	N0N			

Society	QRG	TIME	DD	MM	CTRY	IDENT	MODE	BD	SH	REMARKS
SRAL	7120,0	0315-0400	dly	8	SOM	R. Hargeisa	A3E			
SRAL	7120,0	1500-1900	dly	8	SOM	R. Hargeisa	A3E			
SRAL	7131,0	0830-0915	12.	8		UiPTR	F1B		200	
SRAL	7123,0	0200-1930	8.-10.	8		UiPTR	F1B		200	ship
SRAL	7132,0	h24	26.-31.	8	RUS	UiMUX	PSK2	120	2600	
SRAL	7134,9	1620-1632/	29.	8		UiPTR	F1B		500	
SRAL	7140,0	0645-1900	21. 22.	8		UiMUX	PSK2	120	2600	
SRAL	7151,5	0600-0700	4.	8		UiPTR	F1B		250	
SRAL	7152,5	0430-1930	17.	8	RUS	UiPTR	F1B/ NON		250	
SRAL	7160,0	0805	20.	8		UiCW	A1A			MR 5BL
SRAL	7166,0	0810	3.	8		UiPTR	F1B		250	
SRAL	7167,0	0740-1230	*	8		UiPTR	F1B		250	Days: 14. 16. 18.
SRAL	7172,0	0800	18.	8	RUS	RIR2	A1A			RFK77
SRAL	7172,0	0240-1800	*	8	RUS	UiMUX	PSK2	120	2600	Days: 1. 7. 8. 15. 17.
SRAL	7175 A	1820-1835	5. 11.	8	IRN	IRIB				Spurious from 7240 kHz
SRAL	7181,6	0330-1603/	7. 14.	8		UiCarr	N0N			
SRAL	7184,0	0425-1920	8. 13.	8		UiMUX	PSK2	120	2600	
SRAL	7186,0	0315-1930	5. 6.	8		UiMUX	PSK2	120	2600	
SRAL	7191,0	1130-1430	3.	8		UiMUX	PSK2	120	2600	
SRAL	7197,0	1713-0400	6. 7.	8		UiMUX	PSK2	120	2600	
SRAL	7195,0-7200,0	1715-2100	dly	8	RUS	RRI				Splatter from 7215 kHz
SRAL	7200,0	2200-2300	26. 27.	8	TWN		A3E			Jammed by CHN
SRAL	7201,0	1855-1903/	7.	8	CHN	RCI	A3E			Misstuned, Russian PX
SRAL	14000,0	1200-1530	21.	8		UiCarr	N0N			
SRAL	14008,0	0345-1000	*	8	RUS	UiPTR	F1B		250	Days: 8. 12. 15. 18. 19.
SRAL	14026,0	1800-0834/	3. 29.	8		UiMUX	PSK2	120	2600	Days: 10. 15. 16. 17. 19. 21. 22. 23. 24. 25. 26. 30. 31.
SRAL	14028,0	0545	20.	8		UiPTR	F1B			
SRAL	14030,0	0810	1.	8		UiMUX	PSK2	120	2600	
SRAL	14066,0	0735-0835	2.	8		UiMUX	PSK2	120	2600	
SRAL	14116,0	0750-1920	*	8	RUS	UiPTR	F1B		250	Days: 4. 9. 13.
SRAL	14118,0	0850-1645	15.	8		UiMUX	PSK2	120	2600	
SRAL	14162,0	0845-0940	2.	8	RUS	UiMUX	PSK2	120	2600	
SRAL	14169,0	0650	20.	8		UiPTR	F1B			
SRAL	14192,0	0500-1930	1.- 4.	8	RUS	UiPTR	F1B		200	
SRAL	14221,0	1900-0500	dly	8	RUS	UiPTR	F1B		200	
SRAL	14240,0	0800-1930	4. 12.	8		UiPTR	F1B		250	
SRAL	14277,0	1005-1011/	29.	8	RUS	UiOTHR	FMCW			50Hz/10kHz

Society	QRG	TIME	DD	MM	CTRY	IDENT	MODE	BD	SH	REMARKS
SRAL	14288,0	0810	19.	8	RUS	UiOTHR	FMCW			50Hz/10kHz
SRAL	14292,0	0545	30.	8		UiCW	A1A			MR 5F
SRAL	14292,0	0300-1930	1. 2.	8	RUS	UiPTR	F1B		500	
SRAL	14295,2	h24	dly	8	TJK	R Tojikiston	A3E			3f 4765,07 kHz, Yangiyul TX
SRAL	18060,0	1405-1424	28.	8	CYP / TUR	UiOTHR	FMCW			50Hz / 20 kHz
SRAL	21020,0	0625-0810/	23.	8	CYP / TUR	UiOTHR	FMCW			50Hz / 20 kHz
SRAL	21415,0	1250-1300/	26.	8	CYP / TUR	UiOTHR	FMCW			50Hz / 20 kHz
SRAL	28120,0	1055	27.	8	RUS	Taxi disp.	F3E			
SRAL	28285,0	1055-1155	27.	8	RUS	Taxi disp.	F3E			

USKA – Switzerland – HB9CET (Peter)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	7000.0	2111	26	08		D	A1A			Beacon D
USKA	7001.0	2224	01	08			J3E-U			unident language, several stations
USKA	7005.0	1714	22	08			J3E-L			unident language
USKA	7007.65	2205	12	08			A3E			unident (weak)
USKA	7008.0	1214	19	08			F1B	75	250	
USKA	7008.0	1221	19	08		RWM	F1A		250	after ID "QRT"
USKA	7010.0	1936	16	08			MFSK8	125	1750	MIL 188-141A
USKA	7010.0	1536	28	08			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D
USKA	7013.0	1632	13	08			OFDM60	35.5	~2k7	Spacing 44.5Hz
USKA	7022.0	2011	04	08			F1B	50	200	
USKA	7025.0	1244	31	08			F1B	50	200	(harmonic found at 14050)
USKA	7027.5	2009	20	08		V	A1A			Beacon V, every 3s daily
USKA	7029.0	1933	24	08		V	A1A			Beacon V, every ~0.9s
USKA	7032.0	2147	01	08			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D daily
USKA	7038.7	2230	01	08	UKR	D	A1A			Beacon D Sevastopol daily
USKA	7038.8	1400	01	08	RUS	P	A1A			Beacon P Kaliningrad daily
USKA	7038.9	2229	01	08	RUS	S	A1A			Beacon S Murmansk daily
USKA	7039.3	1405	01	08	RUS	K	A1A			Beacon K Petropavlovsk daily
USKA	7039.4	1404	01	08	RUS	M	A1A			Beacon M Magadan daily
USKA	7065.0	2230	30	08			A3E			BC; voice + music
USKA	7070.0	2238	02	08		244	MFSK8	125	1750	MIL 188-141A daily
USKA	7070.0	0144	03	08		514	MFSK8	125	1750	MIL 188-141A often
USKA	7070.0	2145	31	08		334	MFSK8	125	1750	MIL 188-141A
USKA	7070.0	2147	31	08		810209	MFSK8	125	1750	MIL 188-141A
USKA	7070.0	2156	31	08		820210	MFSK8	125	1750	MIL 188-141A
USKA	7089.8	1133	23	08			G1D	2400	2k6	PSK-8: Link 11- SLEW often
USKA	7093.5	1125	23	08			J7D		2k7	PSK-2: CIS12 = AT3004D
USKA	7102.5	2309	03	08			J7D		2k7	CIS12 idling
USKA	7105.0	2209	12	08			?		~ 8k	unident signal (jammer?)
USKA	7105.0	2213	15	08			A3E			BC, strongly jammed
USKA	7110.0	1609	03	08			J7D		2k7	PSK-2: CIS12 = AT3004D often
USKA	7120.0	1709	02	08	SOM		A3E			Radio Hargaysa daily
USKA	7122.0	2250	18	08		V	A1A			Beacon V; rough, unstable
USKA	7122.0	2119	26	08			?		200	unident short bursts, every 3s
USKA	7125.0	2247	18	08			A3E			BC, weak
USKA	7132.0	2113	26	08			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D often
USKA	7140.0	1719	22	08			J7D	12x120	2k7	CIS12 system
USKA	7158.5	0644	21	08			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D often
USKA	7166.885	1133	16	08			A1A			Jammer splattering over 3kHz! badly interfering hams!
USKA	7167.0	1132	16	08			F1B	50	250	often
USKA	7170.0	2112	14	08			FMCW	66.66	10k	OTHR BD ~3.6s
USKA	7178.0	1921	14	08			FMCW	66.66	10k	OTHR BD ~3.6s
USKA	7179.0	2154	15	08			J7D	12x120	2k7	CIS12 system
USKA	7184.0	2114	26	08			J7D	12x120	2k7	BPSK: CIS12 = AT3004D

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	7186.0	2334	05	08			J7D	12x120	2k7	QPSK: CIS12 = AT3104D
USKA	7198.5	1951	12	08			?		~3k	unident digital signal daily
USKA	7200.0	2223	01	08			A3E			BC, Chinese language daily
USKA	14026.0	1857	18	08			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D often
USKA	14040.0	1102	13	08			F1B	75	250	
USKA	14050.0	1244	31	08			F1B	50	400	Harmonic of 7025; 50Bd/200Hz
USKA	14110.0	0743	19	08			F1B	75	250	
USKA	14116.0	0854	13	08			F1B	75	250	
USKA	14118.0	1559	15	08			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D often
USKA	14140.0	1543	31	08			J7D		2k7	CIS12 system, idling
USKA	14192.0	2154	01	08			F1B	50	200	almost daily
USKA	14221.0	2137	02	08			F1B	50	200	almost daily
USKA	14221.0	2135	15	08			F1B	40.5	191	
USKA	14240.0	0801	13	08			F1B	75	250	
USKA	14292.0	1158	01	08			F1B	75	500	
USKA	14293.5	0845	19	08			FMCW	50 sps	10k	
USKA	14338.0	2158	01	08			FMCW	66.66	10k	OTHR BD ~4s BRI 35s
USKA	14344.65	2221	01	08			PSK-8	2400	2k4	MIL188-100 Hybrid, burst daily
USKA	14347.0	0705	22	08			FMCW	50 sps	10k	OTHR
USKA	18148.8	0708	21	08			F1B		600	probably harmonic
USKA	18150.8	0708	21	08			F1B		600	probably harmonic
USKA	21000.0	1634	25	08			?		10k	unident unknown digital signal
USKA	21000.0	1642	25	08			J3E-U		2k4	Spanish (fishery)
USKA	21000.0	0931	28	08			J3E-U		2k7	Portugese (Brazilian?)
USKA	21400.0	0741	21	08			F1B	50	2000	Harmonic
USKA	21440.0	1935	16	08			A3E			Music, maybe spurious
USKA	28265.0	1936	21	08			FMCW	25 sps	20k	OTHR
USKA	29250.0	1011	25	08			F1B	81.9	140	Datawell buoy

Veron 1 – Netherlands – PA2GRU (Dick)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SHIFT	DETAILS
VERON	7005,0	19.53	23	8		UiCW	A1A		5F S-9
VERON	7019,0	14.25	29	8		UiCW	A1A		NR 64 A 29 16:25:39 1985 bt 5L
VERON	7019,0	14.31	29	8		UiCW	A1A		NR 65 A 29 16:31:54 1985 bt 5L
VERON	7027,5	20.22	20	8	KYR	V	A1A		V-beacon Kyrgyzstan
VERON	7027,5	17.30	22	8	KYR	V	A1A		V-beacon S7
VERON	7032,0	18.46	11	8	RUS	UiMUX	PSK	2600	12 MPSK AT3004-D qrm on WAE contest
VERON	7032,0	19.38	14	8	RUS	UiMUX	PSK	2600	12 MPSK AT3004-D, nr Smolensk
VERON	7037,7	19.01	31	8	HB9	HB9AFZ/b	A1A		beacon loc JN 46 ME (legal?)
VERON	7038,7	19.00	4	8	UKR	D	A1A		D-beacon - Sevastopol
VERON	7038,9	19.38	24	8	RUS	S	A1A		Beacon Severomorsk
VERON	7038,9	VT	VD	8	RUS	S	A1A		beacon
VERON	7110,0	19.31	14	8		UiPtr	F1B	500	Ptr,
VERON	7115,0	17.43	17	8					Frequency Hopper
VERON	7120,0	19.20	2	8	SOM	BC	A3E		Radio Hargaysa
VERON	7120,0	17.19	24	8	SOM	Radio Hargaysa	A3E		S7-8; E.African speech & music
VERON	7120,0	17.38	15	8	SOM	R,Hargayas	A3E		music
VERON	7132,0	19.01	31	8	RUS	UiMUX	PSK	2600	12 MPSK AT3004-D Voronezh
VERON	7198,0	19.30	19	8	RUS	UiMUX	PSK	2600	12 MPSK AT3004-D nr. Smolensk
VERON	7198,0	19.53	20	8	RUS	UiMUX	PSK	2600	12 MPSK AT3004-D nr. Smolensk
VERON	10143,0	08.43	13	8		UiPTR	F1B		Ptr (also at 26/8 12.22 utc)
VERON	14000,0	08.59	1	8		UiCAR	NON		carrier S-9

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SHIFT	DETAILS
VERON	14008,0	09.46	4	8	RUS	UiPtr	F1B		Ptr, qrt at '09.47 utc
VERON	14008,0	12.45	4	8	RUS	UiPtr	F1B	250	Ptr,
VERON	14008,0	11.35	13	8	CIS	UiPTR	F1B		Carrier/Revs/Ptr (also at 28/8 08.29 utc)
VERON	14108,0	06.33	7	8	CIS	NFY1	A1A		proc
VERON	14108,0	06.50	7	8	CIS	QXHA	A1A		P2D4 de QXHA ZKU ZQD ZKC QRR3 K
VERON	14108,0	07.04	10	8	CIS	QXHA	A1A		P2D4 DE QXHA QTC 083 21 10 1052 083 =
VERON	14108,0	07.04	10	8	CIS	QXHA	A1A		ZKK 622 = (5BL). Ends RPT AL QLN K
VERON	14108,0	07.33	19	8	CIS	SEXO	A1A		W7CC DE SEXO ZNM ZYL ZKP QYT6 K
VERON	14108,00	05.13	22	8	CIS	1VJ9	A1A		CLYX DE 1VJ9 QTC 048 23 22 0846 =
VERON	14108,0	07.12	22	8	CIS	DHAF	A1A		DHT4 DE DHAF QTC 040 16 22 1048 040
VERON	14108,0	07.37	26	8	CIS	1VJ9	A1A		VHNG, TSKJ, HKG8, DHT4, WQ2G DE
VERON	14108,0	08.01	1	8	CIS	QXHA	A1A		QBE QYT9 k (to: P2D4)
VERON	14108,0	08.08	1	8	CIS	NFY1	A1A		ZPD ZQG ZSO QYT6 k (to: MGKQ)
VERON	14108,0	09.46	2	8	CIS	QXHA	A1A		ZNU ZNH ZNR QRR3 k (to: NFJI)
VERON	14108,0	09.48	2	8	CIS	QXHA	A1A		QBE QRR3 k (to: P2D4)
VERON	14108,0	08.24	13	8	CIS	1QID	A1A		5BL (ending 657 k)
VERON	14108,0	09.10	14	8	CIS	AZHN	A1A		PPPPP 5BL (to: 2L4W)
VERON	14108,0	09.14	14	8	CIS	AZHN	A1A		PPPPP 5BL (to: T2GW)
VERON	14108,0	09.20	14	8	CIS	AZHN	A1A		Calls (to: PCPM 5BB2 W7CC SE4B SCBZ)
VERON	14108,0	11.04	16	8	CIS	AZHN	A1A		PPPPP 5BL (to: J6CZ)
VERON	14116,0	07.56	12	8		UiPtr	F1B	250	Ptr,
VERON	14116,0	08.41	13	8		UiPTR	F1B		Ptr (also at 26/8 12.22 utc)
VERON	14116,0	11.22	13	8	CIS	UiCW	A1A		5BL
VERON	14133,0	13.39	18	8		UiPtr	F1B		Ptr, 13.40 utc QRT
VERON	14192,0	05.50	26	8	RUS	UiPtr	F1B	200	revs, ptr
VERON	14240,0	10.38	8	8		UiPtr	F1B	250	Ptr/Revs
VERON	14240,0	07.58	13	8	RUS	UiPtr	F1B	250	till12.00 utc, Ptr, nr. Moscow
VERON	14240,0	08.42	13	8		UiPTR	F1B		Ptr
VERON	14292,0	08.55	1	8	RUS	UiPtr	F1B	500	14.00 utc, Ptr,
VERON	14292,0	08.03	2	8	RUS	UiPtr	F1B	500	Ptr, qrm on Jamboree qrg 14290 KHz
VERON	14292,0	11.56	1	8		UiPTR	F1B		Ptr (also at 2/8 08.25 utc)
VERON	14295,1	17.33	17	8	TJK	Radio Tajik	A3E		Asian Music; S5
VERON	18095,0	15.57	7	8					Frequency Hopper
VERON	21140,0	11.21	25	8					Frequency Hopper
VERON	21240,0	14.38	24	8					Frequency Hopper
VERON	21438,0	14.51	15	8	RUS	RCV	A1A		RGV82 DE RCV QYT4 QSA4 J
VERON	21438,0	14.56	15	8	RUS	RCV	A1A		RGX94 DE RCV nawip
VERON	21439,0	07.45	22	8	RUS	RCV	A1A		RBE86 DE RCV QTC 612 32 20 1427 =
VERON	21439,0	07.54	22	8	RUS	RCV	A1A		RFE70 DE RCV QYT4 QSX 8310 QWH

Veron 2 – Netherlands – PA2GRU (Dick)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	DETAILS
VERON	21402,0	19.26	2	8	Maroc	UiILL	J3e-U	Maroc fishery, several voices
VERON	21402,0	07.40	3	8	Maroc	UiILL	J3e-U	Maroc fishery, several voices
VERON	14141,0	17.45	10	8	E	UiILL	J3e-U	Spanish, male voices

The monitoring team of IARU Region 1

Many thanks for your interest!

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