



Monitoring System

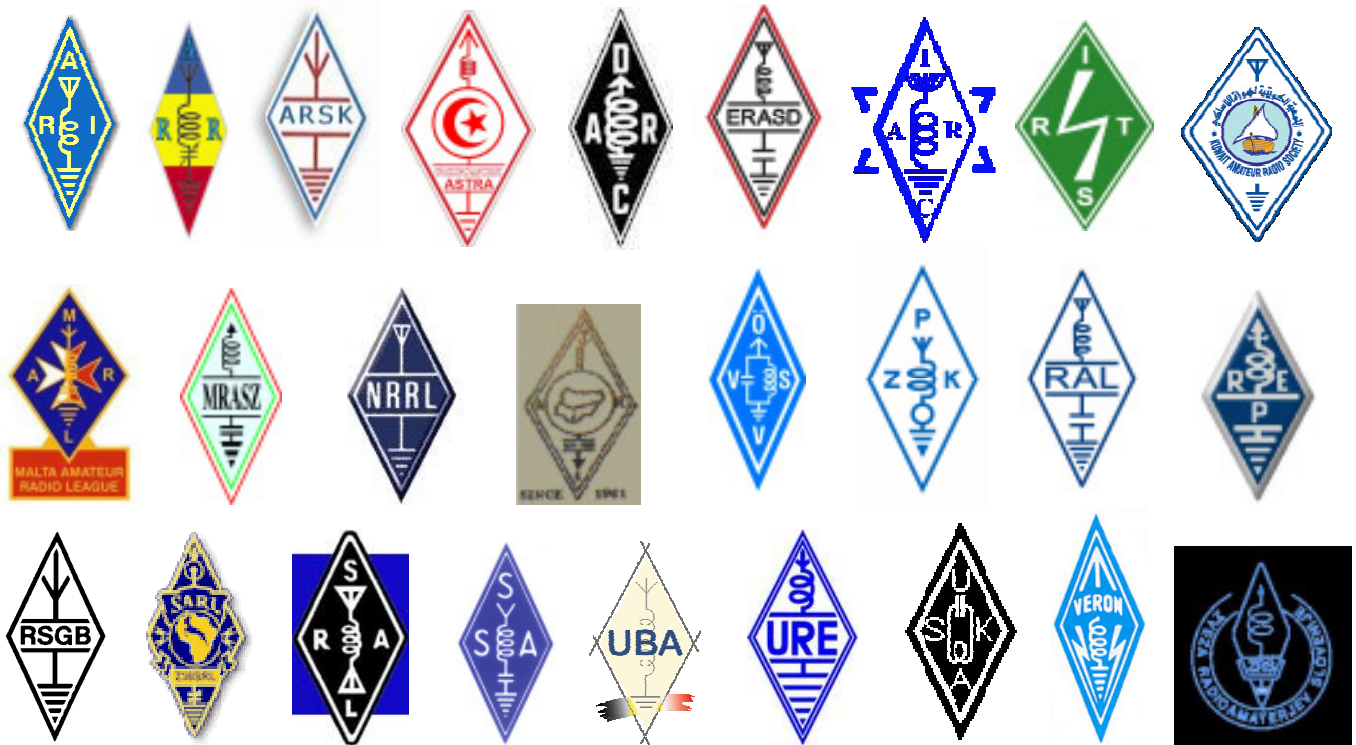
DK2OM – Wolf Hadel
Co-ordinator of IARUMS Region 1
Editor of the Newsletter

HB9CET – Peter Jost
Vice Co-ordinator of IARUMS Region 1

The monthly newsletter for Region 1

October 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 ++
++ OEVSV: OE3GSA – Gerd ++ PZK: SP3SUZ – Wladyslaw ++ RAL: OD5RI – Riri ++ REP: CT4AN – Jose ++
++ RSGB: G4BOH - Chris ++ SARL: ZS1FCS - Fred ++ SRAL: OH2BLU - Pekka ++ SSA – Ullmar ++ UBA: ON4PN - Patrick
++ URE: EB1TR - Fabian ++ USKA: HB9CET - Peter ++ VERON: PA2GRU - Dick ++ ZRS: S56ZDB – Darko ++
++ G3VZV – Graham (satellite) ++ TG9ADV – Jorge (Co-ordinator Region 2) ++ VK3MV – Peter (Co-ordinator Region 3) ++
++ DF8FE – (Webmaster assis.) ++ DL8AAM (ALE) ++ DJ7KG (BUOYS) ++ DF5SX (BC) ++ DARC (server support) ++
++ OD5TE (Hani) ++ VE6SH – Tim (IARU President) ++ 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. EA1DY (Salvador) national URE MS-Co-ordinator left our team. His successor is EB1TR (Fabian). Welcome to our Monitoring team in Region 1 dear Fabian!



EB1TR – Fabian - the new URE MS Co-ordinator in front of his equipment

2. The new UBA MS-Coordinator is ON4PN – Patrick. Welcome to our Monitoring team in Region 1 dear Patrick!



ON4PN – Patrick - the new UBA MS-Co-ordinator beside his equipment

3. 3500 – 3550 – Fishery traffic

Fishery traffic in 10 kHz increments on USB every evening. Involved: Fishermen from France, Spain, Netherlands Great Britain. No callsigns, only names and sometimes very obscene. The Spanish fishermen used the vocoder CRY 2001 from time to time.

4. 3500 - 3800 kHz - Russian OTH radar as before

The Russian OTH radar at Makhachkala (Dagestan – Caspian Sea) was active on various days and audible in Central Europe in the late evenings. Parameters: 43.5 sps covering 30 – 35 kHz. Many legal European services were disturbed. An earlier complaint by the German PTT was not observed.

5. 7 MHz disturbed by Chinese OTH radars in Region 2 and 3 – no change

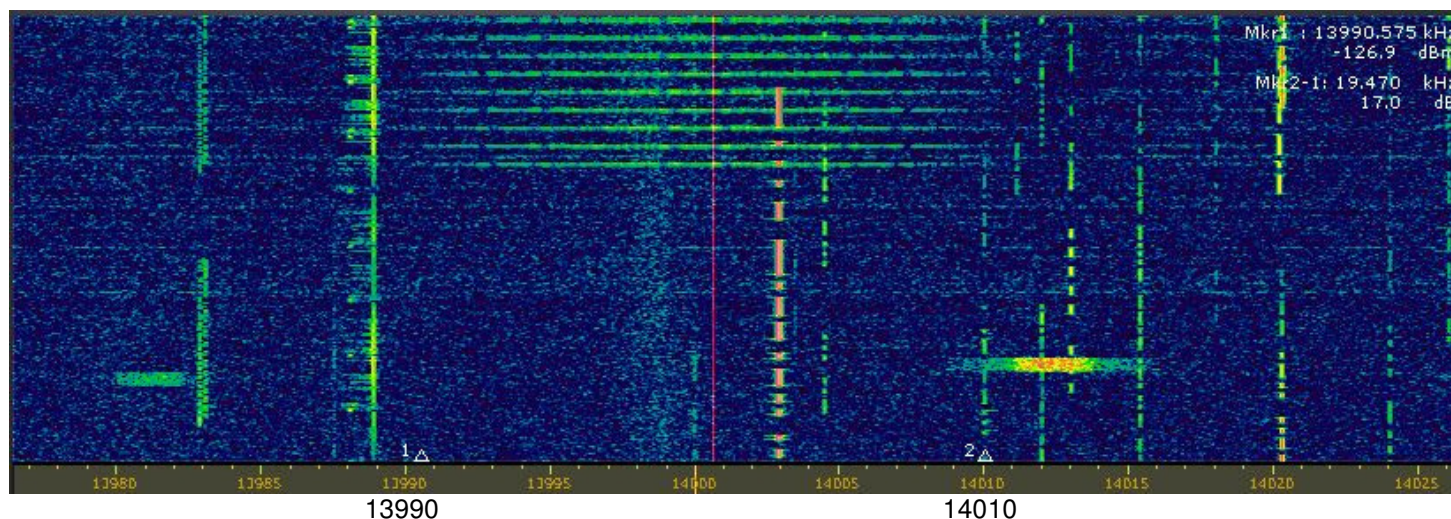
While observing the situation on 7 MHz in Region 2 and 3 I found Chinese OTH radars between 7000.0 and 7200.0 kHz. The systems were long lasting and interfered the whole Pacific Region including Japan, Australia and USA west-coast. Sometimes the radars were audible in Europe, too. Other Chinese burst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

6. French radar on 7 and 21 MHz

The French burst radar is still abusing 7000, 21000 and 21060 kHz, 20 kHz wide and sounding similar to CODAR. Location: South France, area of Marseille. The signals are transmitted at every full hour + 4 minutes and then every 15 minutes. The same system was active on 14000 kHz in July 2012.

soundfile: <http://www.iarums-r1.org/iarums/sound/14000-r.wav>

Earlier 14000 kHz signal – received by DK2OM in 2012



7. Intruder Alert System growing

If you want to be a member of our Intruder Alert System, send a mail to DK2OM:

bandwacht@darf.de

Our system consists of 147 members worldwide. **SWLs are welcomed, too.**

A very busy member of our system is SWL Tim Bucknall. Tim wrote me:

For a long time, I had found the Intruder Watch reports very useful for Low VHF dxing, and I wanted to give something back. Wolf kindly let me join the group despite not being a licensed Amateur. I'm a proud member of UKW/TV-Arbeitskreis der AGDX e.V and my logs can be found in their excellent publication "Reflexion", I've tried many dx publications since 1991 but this one feels most like my natural home.

Tim should get his licence and be a member of RSGB! (Wolf's comment)



9. Homepage updates

Please observe the updated files on our homepage: [Contacts](#), [Gallery](#) and [History of IARUMS R1](#)

10. Homepage IARU Region 1

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 OCTOBER 2013

As before, intruders detected were Radio Uganda on 7195 kHz, which continues in spite of several repeated complaints and has been heard late into the evening, and Radio Hargeisha on 7120 kHz.

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	10	Rep.of Somaliland	Hargeisha	A3E	Daily broadcasts.
ARSK	7195.0	0650 to mid-afternoon and evening	dly	10	UGA	Uganda Radio	A3E	B'cast in KiSwahili, music, Luganda & English, to about 1200Z or later.

DARC 1 – Germany – DG0JBJ (Mario)

DG0JBJ (Mario) observed 7 OTH radars on 20 m, 85 OTH radars on 15 m and numerous OTH radars on 10 m in October 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	2011	12	10	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	1722	15	10	F		QPSK	100	100	BC-PSK – radio navigation – Nantes – daily, all day
DK2OM	1896,5	1720	15	10	D		PSK8	2400	2400	Stanag4285 – 600 bps long – German Navy – daily, all day
DK2OM	1925,0	1724	15	10	I	IPL	USB			Livorno Radio, weather reports – daily, vt
DK2OM	3500,0	1725	02	10	E		USB			Spanish fishery – every evening
DK2OM	3500,0	1907	01	10			USB			Scandinavian fellows
DK2OM	3500,0	1947	01	10	TUR		FSK8	120	1750	ALE, "201" - Turkish Red Crescent – legal!
DK2OM	3500,0	1952	13	10	HOL		USB			Dutch fishery – also 28.10.2013

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										at 1800 utc
DK2OM	3500,0	1621	30	10	F		FMCW		20k	OTH radar – 6 sps bursts - South France
DK2OM	3500,2	1858	07	10	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3501,2	2205	02	10	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3503,0	2149	18	10	RUS		F1B	75	200	Moscow
DK2OM	3503,5	1742	31	10	G	no ITU	FSK8	125	1750	ALE – “XSS” “XPU” “XJR” – British MIL Tascomm – vt, daily - legal!
DK2OM	3503,6	2201	15	10	ISR		PSK4 PSK8	75 2400	2300 2400	hybrid modem – ISR Navy – PSK4 parallel and PSK8 serial
DK2OM	3504,5	1945	23	10	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3504,5	2040	31	10	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3505,0	1900	21	10	RUS		FMCW		30k 30k	OTHR – 43.5 sps – 3505.0 – 3535 kHz – Makhachkala – Caspian Sea – also: 3575 – 3605 kHz
DK2OM	3508,0	1830	24	10	E		USB			vocoder CRY2001
DK2OM	3509,8	1935	02	10	ISR		PSK4 PSK8	75 2400	2400 2400	hybrid modem – ISR Navy – PSK4 parallel and PSK8 serial
DK2OM	3510,0	2150	21	10	E		USB			Spanish fishery
DK2OM	3511,9	1945	15	10	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3513,8	1949	15	10	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3515,0	1859	25	10	F		USB			French fishery
DK2OM	3515,0	2030	17	10	RUS		FMCW		30k 30k	OTHR – 43.5 sps – 3515 – 3545 kHz – also: 3715 – 3745 kHz Makhachkala – Caspian Sea
DK2OM	3515,0	2158	18	10	RUS		FMCW		30k	OTHR – 43.5 sps – 3515.0 – 3545 kHz – Makhachkala – Caspian Sea – also: 3715 – 3745 kHz
DK2OM	3517,8	1955	12	10	CIS		A3E			CIS pirates, unstable carrier
DK2OM	3520,0	2138	10	10	E		USB			Spanish fishery
DK2OM	3520,0	0637	09	10	F		USB			French fishery
DK2OM	3520,0	1750	10	10	RUS		FMCW		30k 30k	OTHR – 43.5 sps – 3520 – 3550 kHz and 3580 – 3610 kHz – Makhachkala – Caspian Sea
DK2OM	3520,0	1830	12	10	RUS		FMCW		30k 30k	OTHR – 43.5 sps – 3520 – 3550 kHz and 3750 – 3780 kHz Makhachkala – Caspian Sea
DK2OM	3520,0	1638	14	10	RUS		FMCW		30k 30k	OTHR – 43.5 sps – 3520 – 3550 kHz – Makhachkala – Caspian Sea – also: 3750 – 3780 kHz – also: 15.10.2013 at 1736 utc
DK2OM	3524,0	1912	07	10	RUS		F1B	100	250	very unclean - Kaliningrad
DK2OM	3527,0	2030	09	10	RUS		F1B	50	200	Severomorsk daily
DK2OM	3535,0	1819	08	10	F		USB			French fishery
DK2OM	3537,5	1730	14	10	UKR		PSK2A	120	2600	AT3004D - Lviv
DK2OM	3540,0	2158	17	10	E		USB			Spanish fishery
DK2OM	3540,0	1820	03	10	CHN		FMCW		60k	Chinese OTH burst radar – 43.5 sps – 3510 – 3570 kHz – via JA
DK2OM	3544,0	1918	24	10	RUS		F1B	50	200	unclean - Moscow
DK2OM	3548,0	1940	30	10	RUS		F1B	50	200	Kaliningrad
DK2OM	3550,0	vt	vd	10	ALG		FSK8	125	1750	ALE, “TU50” “TU52” “FN50”
DK2OM	3550,0	vt	dly	10	F		A3E			French amateurs not respecting the bandplans – daily (unstable carriers)
DK2OM	3550,8	1938	21	10	ISR		PSK4 PSK8	75 2400	2400 2400	hybrid modem – ISR Navy – PSK4 parallel and PSK8 serial - disturbed by Scandinavian pirates in USB
DK2OM	3553,8	ady	dly	10	TUR		PSK8	2400	2400	Stanag4285 – TUR MIL - Ankara
DK2OM	3555,0	1939	21	10	E		USB			Spanish fishery
DK2OM	3567,5	1940	03	10	RUS		PSK2A	120	2600	AT3004D – St. Peterburg – also: 25.10.2013 at 1848 utc
DK2OM	3578,0	1733	15	10	RUS		PSK2A	120	2600	AT3004D - Kaliningrad
DK2OM	3585,0	2000	dly	10	TWN	HLL	FIC			120 rpm, IOC 576, Wxfax -

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										daily legal!
DK2OM	3587,0	vt	vd	10	E	no ITU	FSK8	125	1750	ALE, "TVV" "TXX" - Spanish Guardia Civil
DK2OM	3593,7	2034	31	10	UKR	D	A1A			Cluster beacon – Sevastopol RUS Navy – "RCV"
DK2OM	3593,9	2036	31	10	RUS	S	A1A			Cluster beacon – Severomorsk RUS Navy – „RIT“
DK2OM	3595,0	vt	dly	10	D		FSK8	125	1750	ALE – German customs
DK2OM	3596,0	1925	14	10	RUS		PSK2	120	2600	AT3004D – submode idle - Kaliningrad
DK2OM	3597,0	vt	dly	10	D		PSK8	2400	2400	Link11 SLEW
DK2OM	3617,0	vt	dly	10	HRV	9A5EX	FSK8	125	1750	ALE, "9A5EX" – HAM-ALE - just for info
DK2OM	3622,5	1800	dly	10	J	JMH	F1C			Tokyo Meteo – 120 rpm – IOC576 – daily, legal!!!
DK2OM	3640,0	1919	25	10	RUS		FMCW		30k	OTHR – 43.5 sps – 3640 – 3670 kHz – also: 3800 – 3830 kHz
DK2OM	3665,0	1920	24	10	RUS		FMCW		30k 30k	OTHR – 43.5 sps – 3665 – 3695 kHz and 3760 – 3790 kHz Makhachkala – Caspian Sea
DK2OM	3690,0	1957	22	10	CHN		FMCW		80k	Chinese OTH radar 43.5 sps – 3690 – 3770 kHz
DK2OM	3720,0	2040	30	10	RUS		FMCW		55k	OTHR – 43.5 sps – 3775 – 3830 kHz - Makhachkala – Caspian Sea
DK2OM	3725,0	1820	22	10	RUS		FMCW		30k	OTHR – 43.5 sps – 3725.0 – 3755 kHz – Makhachkala – Caspian Sea – also: 3770 – 3800 kHz
DK2OM	3730,0	1758	23	10	RUS		FMCW		30k	OTHR – 43.5 sps – 3730 – 3760 kHz – Makhachkala – Caspian Sea
DK2OM	3740,0	1935	10	10	RUS		F1B	100	500	area of Moscow
DK2OM	3756,0	ady	dly	10	UKR		A3E			UKR – pip – 14 tones – hyperbolic navigation system – BRAS-2/RS-10
DK2OM	3760,0	1707	27	10	RUS		FMCW		50k	OTHR – 43.5 sps – 3760 – 3810 kHz – Makhachkala – Caspian Sea
DK2OM	3761,5	vt	vd	10	POL		FSK8	125	1750	ALE, "NI9" "PL7" "AB2" – Polish MIL
DK2OM	3770,0	1845	07	10	RUS		FMCW		30k	OTHR – 43.5 sps – 3770 – 3800 kHz – Makhachkala – Caspian Sea
DK2OM	3770,0	1735	31	10	RUS		FMCW		60k	OTHR – 43.5 sps – 3770 – 3830 kHz – Makhachkala – Caspian Sea
DK2OM	3782,0	ady	dly	10	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	10	D	DKOESD	FSK8	125	1750	ALE, "DKOESD" – just for info!
DK2OM	6978,0	1828	20	10	RUS		FMCW		35k	6970 – 7005 kHz – 50 sps - possibly radar – area of Moscow – every evening
DK2OM	7000,0	0620	02	10	E		USB			Spanish fishery - vocoder CRY 2001 –West African coast
DK2OM	7000,0	2150	01	10	RUS		PSK2A	120	2600	AT3004D – traffic - Moscow
DK2OM	7000,0	1353	15	10	RUS		PSK2A	120	2600	AT3004D – submode idle and traffic - Moscow
DK2OM	7000,0	2048	17	10	F		FMCW		20k	OTH radar – 6 sps bursts - South France
DK2OM	7000,0	1949	22	10	CHN		FMCW		65k	Chinese OTH radar 43.5 sps – 7000 – 7065 kHz
DK2OM	7008,0	1715	16	10	RUS		F1B	75	250	Penza – also: 23.10.201 at 2150 utc
DK2OM	7012,9	1620	14	10	RUS		OFDM	30	2800	OFDM60 - Moscow
DK2OM	7016,0	1932	18	10	RUS		F1B	75	250	Novosibirsk
DK2OM	7017,2	1950	21	10	MNE		A1A			high speed A1A msgs of 5

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										character groups – figures and letters, also using “ar” and “sk” - Montenegro
DK2OM	7018,0	2145	10	10	RUS		PSK2A	120	2600	AT3004D - Kaliningrad
DK2OM	7020,0	vt	vd	10			FSK8	125	1750	ALE, “CS5004A” “RS0013D” – NC3A network? – area of Kosovo
DK2OM	7020,0	vt	dly	10	INS		USB LSB			Indonesian pirates – village radio - daily
DK2OM	7022,0	1454	01	10	RUS		PSK2A	120	2600	AT3004D – south-east of Voronezh – also: 25.10.2013 at 1850 utc
DK2OM	7023,8	0530	30	10	RUS		A1A			A1A encrypted - Bryansk
DK2OM	7035,0	1930	10	10	RUS		F1B	75	250	area of Moscow
DK2OM	7038,7	2142	15	10	UKR	D	A1A			Cluster beacon – Sevastopol RUS Navy – “RCV”
DK2OM	7038,8	---	---	10	RUS	P	A1A			Cluster beacon – Kaliningrad RUS Navy – “RMP”
DK2OM	7038,9	1613	23	10	RUS	S	A1A			Cluster beacon – Severomorsk RUS Navy – „RIT“
DK2OM	7039,0	1945	24	10	RUS	C	A1A			Cluster beacon - Moscow RUS Navy - “RIW”
DK2OM	7039,1	---	---	10	KGZ	A	A1A			Cluster beacon – Bishkek RUS Navy – “RJH25”
DK2OM	7039,2	ady	dly	10	RUS	F	A1A			Cluster beacon - Vladivostok RUS Navy - “RJS”
DK2OM	7039,3	ady	dly	10	RUS	K	A1A			Cluster beacon - Petropavlovsk Kamchatskiy - RUS Navy - Pacific fleet - “RCC”
DK2OM	7039,4	ady	dly	10	RUS	M	A1A			Cluster beacon – Magadan RUS Navy – „RTS“
DK2OM	7039,95	ady	dly	10	I	IZ3DVW	A1A			IZ3DVW – uncoordinated beacon, daily, all day
DK2OM	7040,0	vt	dly	10	F	F6BAZ	FSK8	125	1750	ALE, “F6BAZ” – just for info
DK2OM	7040,5	vt	dly	10	HRV		FSK8	125	1750	ALE, “9A5EX” “9A0ALE” – just for info
DK2OM	7047,0	2030	21	10	UKR		PSK2	120	2600	AT3004D – submode idle - Sevastopol
DK2OM	7049,0	0716	16	10	RUS		F1B	75	200	Kaliningrad
DK2OM	7049,5	1627	09	10	HRV	9A0ALE G MIDFO F F6BAZ	FSK8	1250	1750	Amateur ALE, just for info!
DK2OM	7052,0	1830	09	10	RUS		F1B	50	250	Moscow
DK2OM	7054,0	---	---	10	RUS		F1B	50	200	CIS50-50 - RUS Navy Moscow – not active
DK2OM	7054,0	0724	22	10	F		LSB			French amateurs not respecting the bandplan
DK2OM	7055,5	vt	vd	10	GEO		FSK8	125	1750	ALE, “111” “132” “133” - Georgia
DK2OM	7060,0	1900	05	10	FEa		FMCW		30k	ocean surface radar – 3 sps – 7060 – 7090 kHz – audible in Japan and Australia
DK2OM	7061,0	0715	04	10	RUS		PSK2A	120	2600	AT3004D – Penza - also: 10.10.2013 at 0700 utc
DK2OM	7061,0	1829	10	10	RUS		F1B	50	1000	
DK2OM	7065,0	2200	dly	10	CHN	RCI	A3E			Radio China International – IM?
DK2OM	7069,0	2048	28	10	KAZ		A1A			Almaty
DK2OM	7070,0	1955	08	10	GEO	no ITU	FSK8	125	1750	ALE, “MV” “244” “686” “334” “204” “571” – daily active
DK2OM	7089,8	1954	26	10	TUR		PSK8	2400	2400	Link11 - SLEW – aircraft – Turkish SE coast
DK2OM	7091,5	2200	19	10	KGZ	V	A1A			beacon “V” - Bishkek - Kyrgyzstan
DK2OM	7099,5	1504	05	10	HRV	9A0ZG	FSK8	125	1750	ALE, “9A0ZG” “9A5EX” “9A0OS” – daily - just for info!
DK2OM	7102,0	vt	dly	10	HRV SUI D	9A0ALE	FSK8	125	1750	ALE, “9A0ALE” “HB9MHB” “9A0ZG” “DK0ESD” – just for info!

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	7105,0	2200	30	10						broadband digital signal – 7100 – 7110 kHz
DK2OM	7110,0	vt	dly	10	HRV	9A0ALE	FSK8	125	1750	ALE, “9A0ALE” – just for info
DK2OM	7111,0	0710	04	10	RUS		F1B	75	250	area of Moscow
DK2OM	7117,0	ady	dly	10	RUS	REA4	F1B	100	1000	most of the time idle – Russian airforce Moscow – ident at full hour + 41 min – daily, all day
DK2OM	7119,0	1120	29	10	RUS		PSK2A	120	2600	AT3004D – Far East Russia
DK2OM	7120,0	1700	dly	10	SOM		A3E		9k	Radio Hargaysa Somalia, daily
DK2OM	7121,0	1929	03	10	CHN		FMCW		10k	Chinese OTH burst radar – 66.66 sps – duration 1.9 sec
DK2OM	7125,0	1730	31	10	AUS		FMCW		35k	Ocean wave radar – 3 sps – 7125 – 7160 kHz – via Australia
DK2OM	7132,0	1934	03	10	RUS		PSK2A	120	2600	AT3004D – Voronezh – daily, all day
DK2OM	7135,0	1949	22	10	CHN		FMCW		30k	Chinese OTH radar 43.5 sps – 7135 – 7165 kHz
DK2OM	7152,8	1746	08	10	FEa		PSK8	2400	2400	Link11-SLEW - Far East
DK2OM	7166,0	1550	16	10	F		A1A			5 letter groups encrypted – area of Paris
DK2OM	7166,0	0750	17	10	D		A1A			amateur tries to disturb the French A1A by a splattering A1A signal (3 kHz wide)
DK2OM	7169,0	1406	29	10	RUS		F1B	75	250	Kaliningrad
DK2OM	7176,0	1840	07	10	RUS		F1B	75	250	very unclean - Kaliningrad
DK2OM	7178,0	1600	11	10	RUS		PSK2A	120	2600	AT3004D – Severomorsk – also: 12.10.2013 at 1447 utc
DK2OM	7185,5	vt	dly	10	D HRV		FSK8	125	1750	ALE, “9A5EX” “DK0ESD” just for info - daily
DK2OM	7186,0	2003	22	10	RUS		PSK4B	120	2600	AT3104D – Severomorsk
DK2OM	7186,0	1754	24	10	RUS		PSK2A	120	2600	AT3004D - Severomorsk
DK2OM	7197,0	1830	dly	10	RUS		PSK2	62	2800	7197 – 7199.8 kHz - broadband PSK signal from Radio Rossii on 7215 kHz – also: 7230 kHz - daily
DK2OM	7197,0	1907	22	10	TUR		FSK8	125	1750	ALE, “8241” “206102” “8151” “3021” “3761” “8021” “8141” – Turkish Sivil Avunma = Turkish Civil Defense - source: DL8AAM
DK2OM	7198,0	2137	11	10	RUS		PSK2A	120	2600	AT3004D - Moscow
DK2OM	7200,0	2200	dly	10	CHN TWN		A3E			2 BCs in Chinese language – Chinese BC and SOH
DK2OM	10100,8	ady	dly	10	D		F1B	50	450	Baudot - German Weatherservice – legal!
DK2OM	10112,0	ady	dly	10	TUR		PSK8	2400	2400	Stanag4285 – 600 bps long – NE of Izmir
DK2OM	10113,0	vt	dly	10	TUN	no ITU	FSK8	125	1750	ALE, “TUD”
DK2OM	10114,8	0627	03	10	RUS		F1B	100	1000	CIS14 – Penza - daily
DK2OM	10123,0	0635	07	10	UKR		PSK2	120	2600	AT3004D - Sevastopol
DK2OM	10125,0	1922	05	10	MRC		USB			Moroccan fishery
DK2OM	10125,0	1713	16	10	E		USB			Spanish fishery
DK2OM	10127,0	0640	09	10	RUS		F1B	75	250	area of Moscow
DK2OM	10129,0	0745	31	10			PSK2	120	2600	AT3004D -
DK2OM	10130,0	vt	dly	10	MRC		FSK8	125	1750	Thales 3000 – West Sahara – daily
DK2OM	10130,0	1938	02	10	CYP		FMCW		20k	OTH radar Cyprus – 50 sps
DK2OM	10130,0	2125	28	10			USB			unid pirates
DK2OM	10132,0	1748	10	10	RUS		F1B	75	250	Far East Russia
DK2OM	10144,0	ady	dly	10	D	DK0WCY	A1A			10143.986 kHz - DK0WCY – German aurora beacon – just for info!
DK2OM	10145,0	2207	17	10	AUS		FMCW		10k	OTH Radar JORN bursts
DK2OM	10145,5	0725	13	10	HRV S / D F	9A5EX	FSK8	125	1750	ALE, “9A5EX” “SM5VRH” “DK0ESD” “F6BAZ” - just for info
DK2OM	14000,0	1729	14	10	INS		USB			Indonesian pirates
DK2OM	14001,0	vt	dly	10	CHN		FSK8	125	1750	ALE, “397”

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	14026,0	1450	01	10	RUS		PSK2A	120	2600	AT3004D – Moscow – traffic and submode idle – various days
DK2OM	14060,0	vt	vd	10	ISR		FSK8	125	1750	ALE, “AAA” - Israel
DK2OM	14109,0	0912	24	10	ISR	4X1	FSK8	125	1750	ALE, “4X1” “CT2IXQ” – just for info!
DK2OM	14116,3	0735	04	10	CHN		PSK4	75	2250	PRC 4+4 - East China
DK2OM	14135,0	0709	09	10	RUS		PSK2	120	2600	AT3004D – submode idle – Far East Russia
DK2OM	14135,0	1130	09	10	RUS		PSK2	120	2600	AT3004D – modem idle – area of Smolensk
DK2OM	14160,0	0910	15	10	RUS		F1B	75	250	north of Smolensk
DK2OM	14162,0	0658	07	10	RUS		PSK2A	120	2600	AT3004D – traffic - Moscow also: 14.10.2013
DK2OM	14180,0	1005	24	10	UKR		F1B	50	250	Sevastopol
DK2OM	14192,0	vt	vd	10	RUS		F1B	50	200	RUS Navy Kaliningrad – often daily
DK2OM	14205,0	vt	dly	10		no ITU	FSK8	125	1750	ALE, “505” “822” – 60 deg. from DL - CHN ?
DK2OM	14209,3	1022	27	10	CHN		PSK4	75	2250	PRC 4+4 - idle
DK2OM	14221,0	1914	05	10	KGZ		F1B	50	250	Bishkek
DK2OM	14227,8	0717	08	10	RUS		OFDM	44.5	2400	OFDM39 – Far East Russia
DK2OM	14234,0	1334	22	10	RUS	REA4	F1B	100	2000	harmonic from 7117 kHz - most of the time idle – Russian airforce Moscow – ident at 1441 utc on 14235.0 in A1A – daily, all day
DK2OM	14240,0	0705	08	10	RUS		F1B	75	250	Moscow – also: 15.10.2013 at 0913 utc
DK2OM	14242,0	0721	22	10	RUS		PSK2A	120	2600	AT3004D - Smolensk
DK2OM	14260,0	vt	dly	10	SRB		FSK8	125	1750	ALE, “YU1BI” – just for info!
DK2OM	14263,0	0810	03	10	UKR		A3E			female voice with encrypted msgs – figures – “SZRU” = Foreign Intelligence Service of Ukraine at Rivne
DK2OM	14265,0	vt	vd	10	TUR		FSK8	125	1750	ALE, “526”
DK2OM	14269,0	0721	16	10	RUS		FMCW		20k	OTH radar – area of St. Peterburg
DK2OM	14274,0	0628	03	10	RUS		PSK2A	120	2600	AT3004D – ship Black Sea
DK2OM	14275,0	2304	30	10	CHN		FMCW		10k	Chinese OTH burst radar – 66.66 sps – duration 3.8 sec
DK2OM	14284,7	0735	16	10	RUS		OFDM	35.5	2800	OFDM60 - Moscow
DK2OM	14292,0	0710	08	10	RUS		F1B	100	500	very unclear - Far East Russia
DK2OM	14295,0	vt	dly	10	SRB	YU1BI	FSK8	125	1750	ALE, “YU1BI” – just for info!
DK2OM	14295,1	ady	dly	10	TJK		A3E			3 rd from Radio Tajik on 4765 kHz
DK2OM	14300,0	0935	09	10	RUS		FMCW		10k	OTH radar - 83.3 sps – area of Jekaterinburg
DK2OM	14305,0	2303	30	10	CHN		FMCW		10k	Chinese OTH burst radar – 66.66 sps – duration 3.8 sec
DK2OM	14316,0	0620	30	09			A3E			BC – IM?
DK2OM	14317,0	vt	vd	10	UKR	RCV	A1A			RUS naval base Sevastopol - encrypted, cyrillic letters
DK2OM	14325,0	1321	10	10	CHN		FMCW		10k	Chinese burst OTH radar – 66.7 sps – 3.8 sec burst length
DK2OM	14328,0	vt	dly	10	CHN		FSK8	125	1750	ALE, “139” “534” “772” – West China
DK2OM	14330,0	vt	dly	10			FSK8	125	1750	ALE, “BV4”
DK2OM	14342,0	0826	10	10	RUS		F1B	75	250	Novosibirsk
DK2OM	14344,0	0730	10	10	RUS		PSK2A	120	2600	AT3004D – area of Kazan – also: 16.10.2013 at 0821 utc
DK2OM	14344,7	1334	22	10	CHN		PSK8	2400	2400	preamble similar MIL-188-110A - 600 bps short – 14344.650 kHz – daily, all day
DK2OM	14346,0	vt	dly	10	HRV RUS D		FSK8	125	1750	ALE, “9A0ZG” “RX3ARZ” “DK0ESD” – just for info – various times, daily
DK2OM	14346,0	vt	dly	10	THA	HSOZEA	A1A			HSOZEA beacon – 14345.950 kHz - every 5 minutes – just for info!

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	18106,0	1435	30	10						frequency hopper
DK2OM	18107,0	0742	06	10	RUS	RDL	F1B	50	200	Moscow – idle and traffic – Russian navy – various days and times – legal operation
DK2OM	18140,0	vt	dly	10	SRB	YU1BI	FSK8	125	2600	ALE, “YU1BI” – just for info!
DK2OM	21000,0	1845	12	10	B		USB			Brazilian pirates – Rio de Janeiro with North Brazil
DK2OM	21000,0	vt	vd	10	E		USB			Spanish fishery, Galician voice, daily, various times
DK2OM	21000,0	1516	03	10	F		FMCW		20k	OTH radar – 6 sps bursts - South France – full hour 04 min. and then every 15 min.
DK2OM	21000,0	1206	31	10	INS		USB			Indonesian pirates
DK2OM	21000,0	vt	vd	10	RUS		USB			vocoder Yakhta - encrypted voice traffic – Nizhniy Tagil
DK2OM	21000,0	---	---	10	SDN		USB			MFA Sudan – Khartoum with emba Yemen – voice traffic
DK2OM	21000,9	1342	13	10	RUS		F1B	100	300	spurious from 21001,5 kHz
DK2OM	21001,5	1342	13	10	RUS		F1B	100	150	vocoder Yakhta inband synchro – Nizhniy Tagil
DK2OM	21002,0	1519	11	10	CLN		USB			Sinhala fishery
DK2OM	21002,1	---	---	10	SDN		F1B	100	170	21002.15 kHz - Pactor 1 encrypted – MFA Sudan – Khartoum with emba Yemen
DK2OM	21004,8	1342	13	10	RUS		PSK2B	1200	1200	spurious from 20998.3 – Nizhniy Tagil
DK2OM	21006,6	1342	13	10	RUS		F1B	100	300	spurious from 21001,5 kHz
DK2OM	21008.1	1342	13	10	RUS		F1B	100	450	spurious from 21001,5 kHz
DK2OM	21030,0	1340	13	10	TUR		FMCW		20k	OTH radar NW-Turkey – 50 sps
DK2OM	21060,0	0934	27	10	F		FMCW		20k	OTH radar – 6 sps bursts - South France – full hour 04 min. and then every 15 min.
DK2OM	21096,0	vt	dly	10	INS	YD00XH	FSK8	125	1750	ALE, “YD00XH3” – daily, various times - just for info!
DK2OM	21100,0	1622	29	10	POR		USB			Portuguese fishery
DK2OM	21111,0	1554	02	10	E		USB			Spanish fishery – NW Bay of Biscay – also: 07.10.2013 at 1616 utc
DK2OM	21125,0	1549	04	10	TUR		FMCW		20k	NW-Turkey – 50 sps
DK2OM	21140,8	1100	04	10	MEa		PSK8A	2400	2400	Link11-SLEW – daily, various times
DK2OM	21145,0	vt	dly	10	MRC		FSK8	125	1750	ALE, “B301”, “C3”, “IR4” “T4” “E4” “A2” “CD” “K3” – various times, daily
DK2OM	21210,0	1531	16	10	AUS		FMCW		10k	OTH radar JORN - 34.5 and 29.4 sps – 2 sec bursts
DK2OM	21220,0	0655	18	10	AUS		FMCW		10k	OTH Radar JORN bursts
DK2OM	21250,0	0910	04	10	CYP		FMCW		20k	OTH radar Cyprus – 50 sps
DK2OM	21323,6	1123	02	10	SDN		F1B	600	600	DPRK-FSK600 – North Korean emba Khartoum
DK2OM	21400,0	0710	07	10	RUS		F1B	50	2000	harmonic from 5350 – area of Jekaterinburg – also: 31.10.2013 at 0750 utc
DK2OM	21400,0	0722	08	10	CHN		FMCW		10k	Chinese burst OTH radar – 66.66 sps
DK2OM	21409,5	0707	07	10	RUS		F1B	100	2000	CIS14 – harmonic from 10704.75 – Jekaterinburg
DK2OM	21430,0	0719	08	10	TUR		FMCW		20k	OTH radar Turkey – 50 sps – even audible in Japan
DK2OM	21438,0	vt	dly	10	UKR	RCV	A1A			RIP90 de RCV - RUS Navy Sevastopol - daily
DK2OM	21446,0	ady	dly	10	THA	HS0ZEA	A1A			HS0ZEA beacon – every 5 minutes - just for info!
DK2OM	24970,0	0950	31	10			FMCW		150k	CODAR ocean wave radar – 2 sps – 24970 – 25120 kHz
DK2OM	25000,0	1100	31	10	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	1708	08	10	B		USB			Brazilian CBers
DK2OM	28000,0	vt	dly	10	B		A3E			28000 – 28325 numerous Brazilian CBers
DK2OM	28000,0	vt	dly	10	CIS		F3E			28000 – 29700 numerous CIS taxi nets – mostly Russia
DK2OM	28005,0	ady	dly	10	RUS		F3E			taxi net St. Peterburg, daily, all day
DK2OM	28005,0	1707	29	10	B		A3E			Brazilian CBers
DK2OM	28015,0	1755	18	10	B		A3E			Brazilian CBers
DK2OM	28025,0	1756	18	10	B		A3E			Brazilian CBers
DK2OM	28025,0	0945	02	10	POR		F1B	51	320	F1B bursts - west of Lisbon - daily
DK2OM	28025,0	0748	06	10	E		A3E			Spanish CBers
DK2OM	28035,0	1805	08	10	B		A3E			Brazilian CBers
DK2OM	28035,0	1126	09	10	RUS		F3E			taxi Moscow - daily
DK2OM	28040,1	1740	12	10	POR		F1B	51	320	F1B bursts - west of Lisbon – Enagal GPS buoys
DK2OM	28045,0	1719	11	10	B		A3E			Brazilian CBers
DK2OM	28046,0	1010	30	10	CAM		USB			mysterious oscillation – similar to sinus - Caribbean region
DK2OM	28055,0	0849	12	10	RUS		F3E			taxi Moscow
DK2OM	28060,0	0950	02	10						frequency hopper
DK2OM	28065,0	1647	29	10	B		A3E			Brazilian CBers
DK2OM	28065,0	0932	22	10	RUS		F3E			taxi Moscow
DK2OM	28075,0	1823	13	10	B		A3E			Brazilian CBers
DK2OM	28075,0	0930	02	10	E		A3E			Spanish CBers
DK2OM	28085,0	1530	09	10	B		A3E			Brazilian CBers
DK2OM	28085,0	1010	08	10	E		A3E			Spanish CBers
DK2OM	28095,0	1649	29	10	B		A3E			Brazilian CBers
DK2OM	28100,2	1559	19	10	POR		F1B	51	320	F1B bursts - 28100.160 kHz - west of Lisbon – Enagal GPS buoys
DK2OM	28105,0	1812	17	10	B		A3E			Brazilian CBers
DK2OM	28105,0	0928	22	10	RUS		F3E			taxi Moscow
DK2OM	28115,0	1845	14	10	B		A3E			Brazilian CBers
DK2OM	28115,0	1433	08	10	RUS		F3E			taxi Moscow
DK2OM	28120,0	1543	01	10	IRN		FMCW		60k	OTH Radar Iran – 307 and 870 sps – jumping
DK2OM	28135,0	vt	dly	10	RUS		F3E			RUS taxi - Barnaul
DK2OM	28135,0	1655	29	10	B		A3E			Brazilian CBers
DK2OM	28140,0	0908	24	10			USB			someone playing music
DK2OM	28145,0	1641	25	10	B		A3E			Brazilian CBers
DK2OM	28146,0	vt	vd	10	ARG B		FSK8	125	1750	ALE, “LU8EX” “PY2TI” “DL1” – just for info!
DK2OM	28150,0	1432	08	10	IRN		FMCW		60k	OTH Radar Iran – 307 and 870 sps
DK2OM	28165,0	1810	24	10	B		A3E			Brazilian CBers
DK2OM	28175,0	1732	24	10	B		A3E			Brazilian CBers
DK2OM	28185,0	1728	27	10	B		A3E			Brazilian CBers
DK2OM	28195,0	1655	27	10	B		A3E			Brazilian CBers
DK2OM	28200,0	vt	dly	10	POR		F1B	51	320	F1B bursts - west of Lisbon
DK2OM	28200,0	0958	02	10	E		F3E			Spanish CBers
DK2OM	28200,0	1422	13	10	IRN		FMCW		60k	OTH Radar Iran – 307 and 870 sps - jumping
DK2OM	28205,0	1654	29	10	B		A3E			Brazilian CBers
DK2OM	28225,0	0846	02	10	IRN		FMCW		60k	OTH Radar Iran – 307 and 870 sps
DK2OM	28225,0	1658	29	10	B		A3E			Brazilian CBers
DK2OM	28235,0	1658	29	10	B		A3E			Brazilian CBers
DK2OM	28235,0	0955	02	10	E		A3E			Spanish CBers
DK2OM	28245,0	1657	29	10	B		A3E			Brazilian CBers
DK2OM	28255,0	1656	29	10	B		A3E			Brazilian CBers
DK2OM	28255,0	0658	02	10	RUS		F3E			taxi Moscow
DK2OM	28275,0	0947	02	10	E		A3E			Spanish CBers
DK2OM	28275,0	1654	29	10	B		A3E			Brazilian CBers
DK2OM	28285,0	1655	29	10	B		A3E			Brazilian CBers
DK2OM	28295,0	1653	29	10	B		A3E			Brazilian CBers

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	28305,0	1653	29	10	B		A3E			Brazilian CBers
DK2OM	28305,0	vt	dly	10	RUS		F3E			taxi - Arkhangelsk
DK2OM	28315,0	1652	29	10	B		A3E			Brazilian CBers
DK2OM	28320,5	1426	16	10	B		A3E			Brazilian CBers
DK2OM	28365,0	0930	05	10	IRN		FMCW		60k	OTH Radar Iran – 307 and 870 sps
DK2OM	28600,0	0655	03	10	CYP		FMCW		20k	OTH radar Cyprus - 25 sps
DK2OM	28600,0	1007	20	10	TUR		FMCW		20k	OTH radar - NW-Turkey – 50 sps
DK2OM	28860,0	0850	02	10	IRN		FMCW		50k	OTH Radar Iran – 307 and 870 sps - jumping
DK2OM	28890,0	0925	22	10	IRN		FMCW		60k	OTH Radar Iran – 307 and 870 sps
DK2OM	29070,0	0859	02	10			FMCW		40k	12.5 sps -
DK2OM	29250,0	0958	05	10	E		F1B	81.9	140	Datawell-buoy “Waverider” – 29249.905 kHz – Fuerteventura - daily, all day
DK2OM	29304,0	0957	27	10						frequency hopper
DK2OM	29375,0	---	--	10	I		F1B	81.9	140	Datawell-buoy “Waverider” – 29374.898 kHz – Galatone, South Italy - daily, all day
DK2OM	29387,5	---	--	10	IND		F1B	81.9	140	Datawell-buoy “Waverider” – 29387,460 kHz – Indian NW coast, close to Pakistan - daily, all day
DK2OM	29450,0	1515	05	10	MRC		F1B	81.9	140	Datawell-buoy “Waverider” – 29449.870 kHz - area of El Aaiun – Morocco - daily, all day
DK2OM	29500,0	---	--	10	G		F1B	81.9	140	Datawell-buoy “Waverider” – area of Gibraltar – daily, all day
DK2OM	29525,0	---	---	10	MRC		F1B	81.9	140	Datawell-buoy “Waverider” – 29524.990 kHz - Agadir - Morocco – daily, all day
DK2OM	29584,0	1420	22	10	RUS		F1B	75	1000	harmonic from 14792 kHz - Moscow
DK2OM	29626,8	0959	27	10	UKR	UR5QGC	A1A			Ukraine beacon UR5QGC – 29626.750 kHz - just for info
DK2OM	29684,8	---	---	10	I		serial			serial modem, Italian MIL Brescia – Sporadic E!
DK2OM	29699,8	---	---	10	I		serial			serial modem, Italian MIL Brescia – Sporadic E!
DK2OM	29700,0	0719	18	10	FEa		F3E			Far East pirates

IRTS – Ireland – EI5DD (Steve)

KARS – Kuwait – 9K2RR (Faisal)

MRASZ – Hungary - HA7PL (Laci)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
MRASZ	3505,0	2036	7	10			A3E			ui. language
MRASZ	3505,0	1810	31	10			A3E			instabil carrier
MRASZ	3510,0	1707	17	10			OTHR			3510-3530 kHz
MRASZ	3510,0	1647	21	10			OTHR			3510-3545 kHz
MRASZ	3520,0	2004	31	10			A3E			ui. language
MRASZ	3536,9	1811	7	10			A1A			"4 2T 4 2T 4 2T" after 5 figs slowly
MRASZ	3539,0	1828	17	10			LSB			russian l. "ogyin, dva, tri, hallo, hallo"
MRASZ	3550,0	1733	21	10			PSK4	60		chinese OFDM32 burst modem
MRASZ	3582,0	1832	10	10			PSK2			AT3004D

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
MRASZ	3585,0	1653	17	10			A1A			"31999 55938 19995" 5 figs
MRASZ	3589,0	1905	10	10			LSB			music
MRASZ	3767,0	1829	7	10			PSK2			AT3004D
MRASZ	7000,1	1859	3	10	UKR	D	A1A			"D" beacon, also on day's 7,8,14
MRASZ	7000,1	1653	15	10	RUS	P	A1A			"P" beacon, + on day 17
MRASZ	7001,5	1746	8	10			F1B		200	
MRASZ	7006,0	1553	17	10			F1B		200	
MRASZ	7008,0	1939	23	10			F1B		250	
MRASZ	7015,3	1752	8	10			A1A			dotter
MRASZ	7025,0	1946	30	10			OTHR			
MRASZ	7025,0	1558	17	10			LSB			heavy splatter, distorted audio
MRASZ	7029,0	1420	12	10			F1B		200	
MRASZ	7035,0	1940	10	10			F1B		250	
MRASZ	7035,0	0841	11	10			LSB			ui.
MRASZ	7038,7	ady	dly	10	UKR	D	A1A			"D" beacon
MRASZ	7038,8	ady	dly	10	RUS	P	A1A			"P" beacon
MRASZ	7038,9	ady	dly	10	RUS	S	A1A			"S" beacon
MRASZ	7039,0	ady	dly	10	RUS	C	A1A			"C" beacon
MRASZ	7040,0	1430	12	10			LSB			music
MRASZ	7050,0	0823	8	10			A3E			music
MRASZ	7052,0	1812	8	10			F1B		250	printer
MRASZ	7059,0	0856	10	10			F1B		250	
MRASZ	7069,0	1832	30	10			A1A			dotter
MRASZ	7073,0	1928	31	10			LSB			music?
MRASZ	7077,5	1858	3	10	UKR		A1A			"D" beacon, also on day's 7,12
MRASZ	7080,0	1745	8	10			F1B		200	
MRASZ	7100,0	1630	24	10			A3E			HAM's, italian language
MRASZ	7117,0	ady	dly	10	RUS		F1B		1000	"REA4" + more times
MRASZ	7120,0	ady	dly	10	SOM		A3E			"Radio Hargaysa", almost daily
MRASZ	7132,0	1924	3	10	RUS		PSK2			AT3004D also on day's 7,10,12
MRASZ	7165,5	1750	7	10			N0N			
MRASZ	7170,0	1636	17	10			A3E			italian HAM's
MRASZ	7175,0	1714	14	10			A3E			ui.
MRASZ	7175,0	1641	17	10			N0N			
MRASZ	7176,0	1749	7	10			F1B		250	
MRASZ	7178,0	1424	12	10	RUS		PSK2			AT3004D + on day 14
MRASZ	7184,0	1609	24	10			N0N			
MRASZ	7184,9	1608	24	10			A1A			"QRJ 3"
MRASZ	7186,0	1606	24	10	RUS		PSK2			AT3004D
MRASZ	7195,0	1910	30	10			A3E			splatter from overmodulated 7205!
MRASZ	7198,0	0902	10	10	RUS		PSK2			AT3004D
MRASZ	10120,0	1932	31	10			OTHR			10120-10145 kHz
MRASZ	10125,0	1903	23	10			LSB			ui. male
MRASZ	10130,0	2003	30	10			OTHR			
MRASZ	10136,0	0914	18	10			OTHR			
MRASZ	14026,0	0904	10	10	RUS		PSK2			AT3004D + on day 11
MRASZ	14160,0	1704	15	10			F1B		250	
MRASZ	14180,0	0922	23	10			F1B		250	
MRASZ	14187,1	1740	17	10			???			wobbling
MRASZ	14195,0	1413	12	10			USB			Music, noise tks to Nino IT9RYH
MRASZ	14195,0	1349	18	10			USB			Music and jumble speech, italian
MRASZ	14195,7	1851	12	10			A1A			"Finest ra dx test a di

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
										cazzo" contin.
MRASZ	14280,0	1203	18	10			A1A			chaotic sigs
MRASZ	14288,0	0919	18	10			OTHR			
MRASZ	14288,3	0915	18	10			USB			music motif's, sound as play on flute
MRASZ	14295,0	1709	1	10	TJK		A3E			3rd. harmonic fm 4765 kHz
MRASZ	14295,0	1819	23	10	TJK		A3E			3rd. harmonic fm 4765 kHz
MRASZ	14342,0	0909	10	10			F1B		250	
MRASZ	21000,0	0923	18	10			OTHR			
MRASZ	21001,5	1200	11	10			F1B		150	vocoder Yakhta + more times
MRASZ	21330,0	1117	13	10			OTHR			21320-21340 kHz
MRASZ	28065,0	0930	18	10			F3E			russian taxi
MRASZ	28065,0	0957	23	10			F3E			russian taxi
MRASZ	28120,0	1407	12	10			OTHR			50 kHz wide
MRASZ	28220,0	0949	23	10			OTHR			
MRASZ	28235,0	0947	18	10			F3E			russian taxi
MRASZ	28255,0	0945	18	10			A1A			"GH" buoy?
MRASZ	28265,0	1001	23	10			F3E			russian taxi
MRASZ	28268,0	0939	18	10			OTHR			
MRASZ	28365,0	0912	10	10	IRN		FMCW			wide
MRASZ	28390,0	0948	23	10			OTHR			
MRASZ	28490,0	0944	13	10			OTHR			
MRASZ	29350,0	0934	18	10			OTHR			

OEVSV – Austria – OE3GSA (Gerd)

SOC	kHz	UTC	DD	MM	ITU	IDENT	Mode	BD	SH	DETAILS
oevsv	3501,00	0545	24	10	?	?	A3E			music
oevsv	7000,00	1935	08	10	?	D	A1A			
oevsv	7000,00	0533	14	10	?	P	A1A			
oevsv	7110,00	0520	04	10	?	unid	F3E		200	
oevsv	7133,00	0550	10	10	?	Unid	FMCW			Multitone
oevsv	7153,30	1845	21	10	?	?	A1A			Groups - bad quality
oevsv	10101,00	0550	09	10	?	Unid	J3Eu			Males chatting
oevsv	10135,00	1900	02	10	?	unid	FMCW		Broad	
oevsv	14235,00	0605	16	10	?	?	FMCW			
oevsv	18070,00	0535	14	10	?	?	FMCW			
oevsv	21001,50	0545	08	10	RUS	Unid	F1B	100	150	
oevsv	21025,00	0555	16	10	?	?	FMCW			
oevsv	29662,50	1845	19	10	?	?	NON			
oevsv	29663,50	1845	19	10	?	?	NON			

PZK – Poland – SP3UZ (Wladyslaw)

REP – Portugal – CT4AN (Jose Francisco)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REP	3500	18.07	29	10			J3E-U			Unid language, repeating voice msg.
REP	3505	21.29	12	10	E		J3E-U			Fishermen
REP	3510	10.14	03	10	E		J3E-U			Spanish fishermen
REP	3510	07.33	11	10	E		J3E-U			Fishermen
REP	3511	15.03	02	10	E		J3E-U			Spanish fishery
REP	3522	20.43	14	10	G		J3E-U			English OM, no call
REP	3530	07.26	13	10			Pulse			0.5 sec rate
REP	3531	08.12	13	10			Pulse			0.75 sec rate
REP	3531	08.22	13	10			Pulse			0.5 sec rate, every 9 pulses 1 dot
REP	3533	19.10	02	10			FSK8			Unid ALE calls
REP	3535	19.08	02	10			J3E-U			Unid ops

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REP	3545	19.06	02	10			J3E-U			Unid male ops
REP	3550	07.11	24	10	F		A3E			<u>INFRINGE IARU 80m BAND PLAN (Usual) French Amateurs in AM mode</u>
REP	3615	23.02	18	10	MRC		J3E-U			Fishermen
REP	3710	17.47	07	10			J3E-U			Nautical operations freq
REP	3750	12.42	02	10	E		J3E-U			Spanish fishery
REP	7000	15.10	03	10	I + E		J3E-L			Italian and spanish outbanders
REP	7000	16.29	21	10	E		J3E-U			Spanish long haul truckers
REP	7000	18.47	9	10	E		J3E-L			Spanish ops
REP	7000	23.09	12	10	E		J3E-L			Spanish fishery
REP	7000	10.00	26	10	E		J3E-E			Lonely spanish op calling
REP	7000	21.06	31	10	B		J3E-L			Brazilian fishermen
REP	7005	19.04	10	10	E		J3E-L			Spanish fishery
REP	7018	18.11	16	10			F1B	100	1k	
REP	7030	17.19	11	10			FM			Signals like OTH
REP	7038	07.12	28	10	E		J3E-U			Fishermen sea to sea
REP	7039.0	23.39	11	10	RUS	C	A1A			MOSCOW
REP	7039.1	22.30	05	10	KGZ	A	A1A			KIRGISISTAN
REP	7039.2	23.05	11	10	RUS	F	A1A			VLADIVOSTOK
REP	7039.3	21.20	22	10	RUS	K	A1A			VOLGOGRAD
REP	7038.6	20.10	22	10	RUS	S	A1A			KALININGRAD
REP	7039.5	22.37	05	10	RUS	M	A1A			MAGADAN
REP	7038.7	22.15	05	10	UKR	D	A1A			SEVASTOPOL
REP	7038.8	23.10	11	10	RUS	P	A1A			MURMANSK
REP	7050	16.18	14	10			J3E-L			Italian music, strong signals
REP	7069	13.00	20	10			A1			Dot groups continuous
REP	7070	15.28	22	10			J3E-L			Music during all afternoon
REP	7070	16.00	22	10	POR		J3E-L			OM deeply offending all Ham in QSO
REP	7070	14.05	11	10			J3E-L			Music jamming all QSO's
REP	7118	21.02	04	10			F1B			RTTY not standard
REP	7120	18.41	20	10	SOM		8k00 A3EGN			Radio Hargeysa
REP	7120	16.35	21	10			8k00 A3EGN			Arabic BC station
REP	7180	07.19	25	10			J3E-U			Fishermen talking about weather
REP	10103	21.14	27	10	MRC		J3E-U			Fishermen
REP	10111	22.57	18	10	E		J3E-L			Spanish fishery
REP	10113	20.58	29	10	MRC		J3E-U			Moroccan fishermen
REP	10115	20.23	29	10	F		A1A			Numbers station, 51 g w/ dates
REP	10120	20.18	12	10	MRC		J3E-L			Large net, morrocan fishers
REP	10120	11.14	31	10	E		J3E-U			Spanish fishery
REP	10121	15.33	24	10	MRC		J3E-U			Morrocan fishermen
REP	10122	20.50	18	10			J3E-U			Number stations
REP	10123	18.53	26	10			J3E-U			Unid ops, russian-like lang.
REP	10125	19.17	5	10	MRC		J3E-U			Moroccan fishery
REP	10130	22.52	25	10	B		J3E-U			Brazilian op to wife in Maranhão
REP	10132	17.06	13	10			J3E-U			Russian-like language ops
REP	10134	15.34	24	10	MRC		J3E-U			Morrocan fishermen
REP	10135	15.51	06	10			F1B	200	170	Not standard signals
REP	10136	16.34	18	10			J3E-U			Scrambled transmission
REP	10138	22.05	03	10			J3E-U			5 Numbers Station
REP	10140	10.45	14	10	MRC		J3E-L			Morrocan fishermen
REP	10140	16.02	13	10			FMCW			OTH signals
REP	10145	08.23	20	10	E		J3E-L			Spanish fishery
REP	10145	19.49	10	10	B		J3E-L			Brasilian ops
REP	10150	22.00	13	10			J3E-U			English voices about business
REP	10150	21.00	11	10			J3E-U			English Meteo info talks
REP	14000	07.50	22	10	E		J3E-U			Fishermen spanish
REP	14002	07.42	18	10	E		J3E-U			Fishermen
REP	14005	08.22	14	10	E		J3E-U			Spanish fishery on sea
REP	14006	08.30	09	10			F1B	300	425	RY RY RY
REP	14015	08.03	20	10	E		J3E-U			Fishermen
REP	14100	08.05	26	10	E		J3E-U			Fishermen
REP	14100	18.55	12	10			J3E-U			Phone patch talks
REP	14100	21.05	10	10			J3E-U			Talks two male voices
REP	14117	10.57	21	10			PSK8	2400	600	STANAG
REP	14155	20.45	18	10			J3E-U			Family Phone call

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REP	14192	12.55	29	10	RUS		F1B	50	200	Russian MIL FSK
REP	14195	13.30	09	10	I		J3E-U			Music and mess interfering QSO's
REP	14280	20.01	30	10			A3E			5 Letters station in English language
REP	14334	09.36	03	10			FMCW			Short data bursts radar
REP	18011	18.00	08	10			FMCW			Radar ?
REP	18070	14.59	14	10			FMCW			OTH radar
REP	18100	18.02	17	10			A3			Tone Modulated Carrier (not permanent)
REP	18120	18.00	23	10			OFDM			PLT
REP	18165	13.16	10	10			FMCW			OTH radar
REP	21000	08.44	18	10			FMCW			OTH radar, 20kHz wide
REP	21004	23.28	01	10			J3E-U			Inversed coding transmission
REP	21005	20.49	30	10			J3E-U			Encoded voices (Embassy ??)
REP	21010	15.33	01	10	MRC		J3E-U			Male talks
REP	21012	18.24	01	10	MRC		J3E-U			Fishermen
REP	21100	11.41	11	10			FMCW			OTH radar
REP	21115	13.59	10	10			FMCW			OTH radar
REP	21150	14.18	14	10	MRC		J3E-L			Fishermen
REP	21170	14.34	27	10			FMCW			OTH radar
REP	21230	11.08	31	10			FMCW			OTH radar
REP	21335	08.14	28	10			FMCW			OTH radar, short bursts
REP	28000	11.50	21	10	RUS		F3E			Taxis
REP	28015	10.00	08	10	RUS		F3E			Taxis
REP	28025	17.33	28	10			F1B	50	300	Bursts about 25 seconds long
REP	28040	09.03	18	10			F1B	82	160	GPS buoy, all day
REP	28050	12.02	21	10	F		A3E			CB's
REP	28050	11.24	02	10	RUS		F3E			Taxis
REP	28050	18.50	04	10	RUS		A3E			CB's
REP	28050	09.06	18	10			F1B	82	160	GPS buoy, like on 28.040 MHz
REP	28060	22.03	08	10	F		A3E			CB's
REP	28063	15.03	14	10	B		A3E			Brazilian ops
REP	28065	10.05	10	10	RUS		F3E			Taxis
REP	28070	11.00	02	10	F		A3E			CB's
REP	28075	18.52	31	10	F		A3E			CB's
REP	28100	11.59	03	10			F3E			Unid FM ops
REP	28100	09.05	18	10			N0N			RF welder, unstable but persistent
REP	28125	16.35	18	10	B		A3E			Brazilian ops
REP	28135	16.30	16	10	RUS		F3E			Taxis
REP	28135	10.54	02	10	RUS		F3E			Taxis
REP	28155	08.40	18	10	RUS		F3E			Russian taxi dispatcher
REP	28160	13.35	19	10	HRV		F3E			Taxis
REP	28160	08.48	18	10	IRN		FMCW			OTH radar
REP	28175	11.00	25	10	RUS		F3E			Taxis
REP	28175	08.15	28	10	RUS		F3E			Russian taxi YL dispatcher
REP	28205	14.24	06	10			A3E			Unid ops
REP	28285	13.50	24	10	RUS		F3E			Taxi dispatcher
REP	28285	11.37	10	10	IRN		FMCW			Iran radar, via Twente WebSDR
REP	28295	09.48	21	10	IRN		FMCW			Iranian OTH radar
REP	28330	14.55	26	10			FMCW			OTH radar ?
REP	28345	16.29	15	10	I		A3E			Talks – two females
REP	28355	10.56	26	10	RUS		F3E			YL taxi dispatcher with mobiles
REP	28378	16.02	10	10	RUS		F3E			2 Russian talking
REP	28500	19.01	8	10			J3E-U			VP8LP jammed by music and whistles
REP	28775	12.35	26	10			F3E			YL dispatcher
REP	28800	13.04	26	10			F3E			Carrier with strong hum noise
REP	28845	13.31	27	10			FMCW			OTH radar
REP	29185	12.01	19	10	RUS		F3E			Russian taxis, other unid ops
REP	29215	12.39	16	10	RUS		F3E			Russian taxi
REP	29225	11.45	16	10			F3E			Arabic talks
REP	29585	19.13	11	10	B		J3E-U			Net w/ control station, very neat

RSGB - Great Britain – G4BOH (Chris)

SRAL – Finland – OH2BLU (Pekka)

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	REMARKS
SRAL	7001,0	1615-0315	2. 3.	10		UiMUX	PSK2	120	2600	
SRAL	7005,5	1405	11.	10		UiPTR	F1B		250	
SRAL	7008,0	0440-1801/	*	10		UiPTR	F1B		250	Days: 16. 17. 20. 24. 25. 26. 27.
SRAL	7013,0	1620	14.	10		UiMUX	PSK2	120	2600	
SRAL	7014,0	1400	24.	10		UiPTR	F1B			
SRAL	7016,0	0430-1540	*	10		UiPTR	F1B		250	Days: 3. 11. 31.
SRAL	7018,62	0600-1608	*	10		UiCarr	N0N			Days: 1. 2. 4. 7. 11. 13. 28
SRAL	7020,0	1130-1530	3. 30.	10		UiPTR	F1B		250	
SRAL	7021,0	0600-1730	12.	10		UiPTR	F1B		200	
SRAL	7022,0	0230-1930	*	10	RUS	UiMUX	PSK2	120	2600	Days: 1. 2. 8. 27.
SRAL	7025,0	1245-1355	17.	10		UiPTR	F1B		250	
SRAL	7032,0	1330-1540	4.	10		UiMUX	PSK2	120	2600	
SRAL	7032,0	0430	15.	10		UiMUX	PSK2	120	2600	
SRAL	7035,0	1300-1930	10.	10		UiPTR	F1B		250	
SRAL	7035,0	0720-1045	25.	10		UiMUX	PSK2	120	2600	
SRAL	7038,7	h24	dly	10	UKR	D	A1A			Sevastopol
SRAL	7038,8	0530-1930	*	10	RUS	P	A1A			Kaliningrad, days: 1. 2. 10.12.-17. 28.-30.
SRAL	7038,9	h24	dly	10	RUS	S	A1A			Severomorsk
SRAL	7039,0	0530-1815	*	10	RUS	C	A1A			Moscow, days: 2. 5. 6. 9. 21.- 31.
SRAL	7044,0	1100-1200	25.	10		UiPTR	F1B		250	
SRAL	7047,0	0530-1930	21. 22.	10	UKR	UiMUX	PSK2	120	2600	
SRAL	7049,0	0920-1606/	*	10	RUS	UiPTR	F1B		200	Days: 3. 27. 28.
SRAL	7051,0	0530-0700	22.	10		UiPTR			200	
SRAL	7059,0	0730-1315	22.	10		UiPTR	F1B		250	
SRAL	7061,0	1030-1204/	22.	10		UiMUX	PSK2	120	2600	
SRAL	7069,0	1950-0210	*	10	RUS	UiCW	A1A			Dots, days 28. 30. 31.
SRAL	7076,0	0600-1200	*	10		UiMUX	PSK2	120	2600	Days: 19. 22. 24.
SRAL	7086,0	0530-1330	23. 24.	10		UiMUX	PSK2	120	2600	
SRAL	7100,0	1615-1800	*	10		UiCarr	N0N			Days: 20. 22.-24. 10 min on – 3 min off
SRAL	7111,0	0550-0817/	4. 25.	10		UiPTR	F1B		250	
SRAL	7112,0	0330-0815	23.	10		UiPTR	F1B		250	
SRAL	7114,0	1245-1852/	3. 9.	10		UiPTR	F1B / N0N		200	
SRAL	7117,0	1315-1930	*	10	RUS	REA4	F1B		500/1000	Days: 2.-26. 31.
SRAL	7120,0	1445-1900	*	10	SOM	R. Hargeisa	A3E			Days: 1.-21. 26.-31.
SRAL	7125,0	0600	16.	10		UiMUX	PSK2	120	2600	
SRAL	7127,0	0945-1405	6. 24.	10	RUS	UiCW	A1A			MR 5F
SRAL	7132,0	h24	2.-	10	RUS	UiMUX	PSK2	120	2600	

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	REMARKS
			14.							
SRAL	7145 A	1620-1705	3.	10	IRN	IRIB	Spur.			From 7240 kHz
SRAL	7154,0	1135-0450	24. 25.	10		UiMUX	PSK2	120	2600	
SRAL	7162,0	0615-1250	20. 30.	10		UiPTR	F1B		250	
SRAL	7166,0	0700-1850	16. 17.	10		UiCW	A1A			MR 5BL
SRAL	7169,0	1355-0210	*	10		UiPTR	F1B		250	Days: 16. 29. 31.
SRAL	7176,0	h24	7. 8.	10	RUS	UiPTR	F1B		250	
SRAL	7178,0	h24	11.- 14.	10	RUS	UiMUX	PSK2	120	2600	
SRAL	7186,0	0555-1730	*	10	RUS	UiMUX	PSK2	120	2600	Days: 23. 24. 29.
SRAL	7194,0	0805-1315	15.	10		UiMUX	PSK2	120	2600	
SRAL	7198,0	0230-1300	*	10	RUS	UiMUX	PSK2	120	2600	Days: 8. 9. 10.
SRAL	7195,0-7200,0	1630-1930	1.- 14.	10	RUS	RRI				Splatter from 7215 kHz
SRAL	7200,0	1320-1400	14.	10		UiPTR	F1B			
SRAL	14026,0	0530-1340	*	10	RUS	UiMUX	PSK2	120	2600	Days: 1.-16. 23.
SRAL	14031,0	0600	24.	10		UiMUX	PSK2	120	2600	
SRAL	14054,0	1355-1405	29.	10		UiMUX	PSK2	120	2600	
SRAL	14080,0	0555-0606/	8.	10	RUS	438	R3E-u			Synthetic voice
SRAL	14160,0	0620-1620	15. 17.	10	RUS	UiPTR	F1B		250	
SRAL	14180,0	0550-1415	*	10		UiPTR	F1B		250	Days: 23. 24. 25.
SRAL	14220,0	0650-1155	23.	10		UiPTR	F1B/ NON		500	
SRAL	14221,0	1900-0500	dly	10	KGZ	UiPTR	F1B		200	
SRAL	14240,0	0655-1315	*	10		UiPTR	F1B		250	Days: 7. 8. 15.
SRAL	14242,0	0530-0740	22.	10		UiMUX	PSK2	120	2600	
SRAL	14260,0	0800-0806/	3.	10	RUS	674	R3E-u			Synthetic voice
SRAL	14274,0	0340-1700	1.-7.	10		UiMUX	PSK2	120	2600	ship
SRAL	14295,2	0200-1930	dly	10	TJK	R Tojikiston	A3E			3f 4765,07 kHz, Yangiyul TX
SRAL	14328,0	0615-1520	14.	10		UiCarr	N0N			
SRAL	14342,0	0940-1114/	10.	10	RUS	UiPTR	F1B		250	
SRAL	14 MHz	1130-1200	10. 15.	10	RUS	UiOTHR	FMCW			50Hz / 10 kHz
SRAL	18 MHz	0600-1300	*	10	CYP / TUR	UiOTHR	FMCW			50Hz / 20 kHz, days: 10. 11. 13. 15. 23.
SRAL	18072,0	1045	22.	10		UiPTR	F1B		500	
SRAL	18107,0	0530-1700	5.- 30.	10	RUS	RDL	F1B		200	
SRAL	21 MHz	0600-1500	*	10	CYP / TUR	UiOTHR	FMCW			50Hz / 20 kHz, 4.-8. 10. 11. 13. 15. 18. 20.
SRAL	21001,5	0530-1500	5.- 31.	10	RUS	UiPTR	F1B		150	Vocoder
SRAL	21006,5	0855-1200	6. 13.	10	RUS	UiPTR	F1B		150	Vocoder spur.

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	REMARKS
SRAL	21438,0	0430-1300	*	10	RUS	RCV	A1A			Days: 1. 7. 8. 24. 25. 28.-31.
SRAL	24 MHz	0800-1315	23.	10	CYP / TUR	UiOTHR	FMCW			50Hz / 20 kHz
SRAL	28 MHz	0700-1300	*	10	IRN	UiOTHR	FMCW			307 & 870 Hz / 60 kHz, days: 6. 13. 19.-25. 28.-31.
SRAL	28 MHz	0715-1330	*	10	CYP / TUR	UiOTHR	FMCW			25/50Hz / 20 kHz, days: 6. 23.-27. 30. 31.
SRAL	28 MHz	0530-1210	*	10	RUS	Taxi disp.	F3E			Days: 6. 8. 11.-31. 183 reports

USKA – Switzerland – HB9CET (Peter)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	6999.0	1936	07	10			J3E-U			unident language
USKA	7000.0	1903	07	10		D	A1A			Beacon D
USKA	7000.0	1842	08	10			J3E-U		2k7	Italian (fishery)
USKA	7000.0	2046	12	10		P	A1A			Beacon P
USKA	7000.0	1334	15	10			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D often
USKA	7000.0	2120	22	10			N0N			long lasting carrier often
USKA	7000.0	1817	31	10		21036	MFSK8	125	1750	MIL 188-141A
USKA	7000.0	1821	31	10		20991	MFSK8	125	1750	MIL 188-141A
USKA	7001.5	1923	08	10			F1B		200	unident burst system
USKA	7003.0	1517	11	10			J3E-L		2k7	Frenchmen
USKA	7005.5	1433	10	10			F1B	40.5	250	
USKA	7008.0	1648	16	10			F1B	75	250	often
USKA	7010.0	0108	24	10		21412	MFSK8	125	1750	MIL 188-141A often
USKA	7010.0	1600	24	10		21413	MFSK8	125	1750	MIL 188-141A often
USKA	7010.0	0159	25	10		810403	MFSK8	125	1750	MIL 188-141A
USKA	7010.0	2349	27	10		810405	MFSK8	125	1750	MIL 188-141A
USKA	7010.0	2353	27	10		810406	MFSK8	125	1750	MIL 188-141A
USKA	7010.0	2211	10	10		810410	MFSK8	125	1750	MIL 188-141A
USKA	7010.0	1603	24	10		810411	MFSK8	125	1750	MIL 188-141A often
USKA	7010.0	2203	10	10		810412	MFSK8	125	1750	MIL 188-141A
USKA	7010.0	1851	27	10		810413	MFSK8	125	1750	MIL 188-141A
USKA	7010.0	2208	10	10		810415	MFSK8	125	1750	MIL 188-141A
USKA	7010.0	0101	24	10		810416	MFSK8	125	1750	MIL 188-141A
USKA	7010.0	0151	25	10		810418	MFSK8	125	1750	MIL 188-141A
USKA	7010.0	0002	28	10		810499	MFSK8	125	1750	MIL 188-141A
USKA	7010.0	2051	24	10		820413	MFSK8	125	1750	MIL 188-141A often
USKA	7010.0	2216	10	10		820414	MFSK8	125	1750	MIL 188-141A
USKA	7010.0	2220	10	10			J3E-U		2k5	unident language
USKA	7013.0	2142	28	10			J7D	12x120	2k7	PSK-4: CIS12 = AT3104D
USKA	7018.0	2138	10	10			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D
USKA	7030.0	2154	19	10			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D often
USKA	7035.0	1415	10	10			F1B	75	250	
USKA	7038.7	1921	07	10	UKR	D	A1A			Beacon D Sevastopol daily
USKA	7038.8	2154	10	10	RUS	P	A1A			Beacon P Kaliningrad daily
USKA	7038.9	1922	07	10	RUS	S	A1A			Beacon S Murmansk daily
USKA	7039.3	1926	07	10	RUS	K	A1A			Beacon K Petropavlovsk daily
USKA	7039.4	1928	07	10	RUS	M	A1A			Beacon M Magadan daily
USKA	7046.0	2304	25	10			F1B	50	200	
USKA	7047.0	2058	21	10			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D often
USKA	7050.0	2058	21	10			J3E-L		~ 3.6k	endless crazy Music
USKA	7051.0	1301	25	10			F1B	50	200	
USKA	7069.0	1931	28	10			A1A			long lasting dots only
USKA	7070.0	0324	10	10		244	MFSK8	125	1750	MIL 188-141A daily
USKA	7070.0	0325	19	10		334	MFSK8	125	1750	MIL 188-141A
USKA	7070.0	0323	19	10		514	MFSK8	125	1750	MIL 188-141A almost daily
USKA	7070.0	2017	28	10		21383	MFSK8	125	1750	MIL 188-141A often
USKA	7070.0	2335	22	10		810202	MFSK8	125	1750	MIL 188-141A
USKA	7070.0	0043	29	10		810209	MFSK8	125	1750	MIL 188-141A

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	7070.0	0034	29	10		810299	MFSK8	125	1750	MIL 188-141A
USKA	7070.0	0017	23	10		811104	MFSK8	125	1750	MIL 188-141A
USKA	7070.0	0003	23	10		811106	MFSK8	125	1750	MIL 188-141A
USKA	7070.0	2015	28	10		811199	MFSK8	125	1750	MIL 188-141A
USKA	7070.0	2333	22	10		820299	MFSK8	125	1750	MIL 188-141A
USKA	7070.0	0006	23	10		821105	MFSK8	125	1750	MIL 188-141A often
USKA	7070.0	2241	10	10			F1B	75	500	
USKA	7077.4	1855	08	10		D	A1A			Beacon D
USKA	7079.9	1835	08	10			A1A			Jammer, Spikes > 3kHz
USKA	7080.0	1834	08	10			F1B	50	200	often
USKA	7089.8	1612	08	10			G1D	2400	2k6	PSK-8: Link 11- SLEW often
USKA	7091.5	2146	19	10	KGZ	V	A1A			Beacon V often
USKA	7105.0	2202	30	10					~7k4	Digital emission or jammer? daily
USKA	7114.0	2143	08	10			F1B	50	200	often
USKA	7116.0	2201	11	10			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D
USKA	7117.0	1912	07	10		REA4	F1B	100	1k	ID in F1A
USKA	7117.0	1326	15	10			F1B	100	500	
USKA	7118.0	2201	24	10			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D
USKA	7120.0	2143	10	10			F1B	100	1k	
USKA	7120.0	1851	08	10	SOM		A3E			Radio Hargaysa daily
USKA	7132.0	1915	07	10			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D often
USKA	7140.0	2106	20	10			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D
USKA	7154.0	1121	24	10			J7D	12x120	2k7	CIS 12 sytem
USKA	7158.5	1623	31	10			J7D		2k7	CIS 12 sytem idling
USKA	7166.0	0738	17	10			A1A			letters and figures; jammed
USKA	7166.03	1656	16	10			A1A			Jammer, spikes over >3kHz
USKA	7169.0	1511	16	10			F1B	50	250	
USKA	7176.0	1918	07	10			F1B	75	250	
USKA	7178.0	1509	11	10			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D
USKA	7186.0	2112	22	10			J7D	12x120	2k7	PSK-4: CIS12 = AT3104D often
USKA	7194.0	1314	15	10			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D
USKA	7198.0	2136	08	10			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D often
USKA	7200.0	2206	24	10			A3E		~20k	BC, interfering 40m band
USKA	13399.4	1702	09	10			QPSK	8x75Bd	3k	CHN 4+4 system
USKA	14026.0	1002	08	10			J7D	12x120	2k7	PSK-2: CIS12 = AT3004D daily
USKA	14135.0	1058	09	10					2k7	CIS12 system idling
USKA	14160.0	1321	15	10			F1B	75	250	often
USKA	14180.0	1127	24	10			F1B	50	250	CIS 50-50
USKA	14180.0	1141	24	10		RGT77	F1A		250	letters and figures
USKA	14183.0	1148	10	10			FMCW	66.66	10k	OTHR ~BD 3.8 s, ~BRI 34s
USKA	14192.0	1400	25	10			F1B	50	200	often
USKA	14220.0	0735	23	10			F1B	50	500	
USKA	14220.25	0735	23	10			A1A			dots only, Jammer Spikes > 3k6..
USKA	14240.0	1321	15	10			F1B	75	250	
USKA	14240.0	1323	15	10			F1A		250	Q-Code and figures
USKA	14287.0	0755	11	10			FMCW		10k	OTHR
USKA	14295.0	1452	25	10			A3E			BC; harmonic of 4765 kHz
USKA	14300.0	0959	08	10				83.33	10k	OTHR ~BD 6.0 s, BRI 9.5s
USKA	14300.0	1050	09	10				83.33	10k	OTHR continuous
USKA	14334.0	0847	31	10			F1B	75	250	
USKA	14342.0	0942	10	10			F1B	75	250	
USKA	14344.65	1104	09	10			PSK-8	2400	2k4	MIL 188-110 like, modified burst system daily
USKA	18095.0	1210	11	10			FMCW	50 sps	20k	
USKA	18107.0	1012	08	10		RDL	F1A		200	often
USKA	18107.0	1013	08	10			F1B	36	200	CIS 36-50 often
USKA	18107.0	1016	08	10			F1B	50	200	CIS 36-50 often
USKA	18118.5	1412	25	10			F1B	1200	600	
USKA	18130.0	0747	17	10			F1B	100	1k	Harmonic of 9065 (500Hz)
USKA	18170.0	1502	16	10			FMCW	50 sps	20k	OTHR
USKA	21000.0	1936	24	10			N0N			long lasting carrier
USKA	21001.5	1019	08	10			F1B	100	150	
USKA	21242.0	1151	16	10			FMCW	50 sps	20k	OTHR
USKA	21270.0	0946	22	10			FMCW	50 sps	20k	OTHR

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	21318.5	1118	29	10			F1B	600	600	ARQ system
USKA	21330.0	1521	23	10			FMCW	50 sps	20k	OTHR
USKA	21400.0	0837	21	10			FMCW	83 sps	10k	OTHR, probably 2 stations small qrg shift
USKA	21438.0	0744	18	10		RCV	A1A			letters and figures; almost daily
USKA	24 MHz band	1119	31	10			FMCW	2 sps	~ 400k	possibly CODAR radar system ? (approx 24500 – ~24900 kHz)
USKA	28025.05	0958	22	10			F1B	51	300	Fishery GPS buoy
USKA	28046.0	1014	30	10					~1k6	sweep signal
USKA	28155.0	0926	29	10					~60k	OTHR, varying sweep rates
USKA	28275.0	1115	20	10			F1B	51	~300	Fishery GPS buoy often
USKA	28301.0	0754	23	10			FMCW	50 sps	20k	OTHR
USKA	28310.0	1418	24	10			FMCW	50 sps	20k	OTHR
USKA	28350.0	1412	24	10			FMCW	50 sps	20k	OTHR
USKA	28375.0	0837	23	10					~60k	OTHR, varying sweep rates
USKA	28430.0	0923	29	10					~60k	OTHR, varying sweep rates
USKA	28505.0	1128	29	10					~60k	OTHR, varying sweep rates
USKA	28575.0	1349	24	10			FMCW	50 sps	20k	OTHR
USKA	28880.0	0858	23	10					~60k	OTHR, varying sweep rates
USKA	28770.0	1127	29	10					~60k	OTHR, varying sweep rates
USKA	28890.0	0851	23	10					~60k	OTHR, varying sweep rates
USKA	29249.9	1021	20	10			F1B	81.9	140	Datawell buoy daily
USKA	29450.0	1009	20	10			F1B	81.9	140	Datawell buoy daily
USKA	29500.0	1403	24	10			F1B	81.9	140	Datawell buoy daily
USKA	29525.0	1124	20	10			F1B	81.9	140	Datawell buoy daily
USKA	29680.0	0705	29	10			FMCW	50 sps	20k	OTHR

Asumed as Taxi dispatching stations. All found almost daily

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
USKA	28055.0	1154	23	10			F3E			
USKA	28065.0	0818	23	10			F3E			
USKA	28085.0	0813	26	10			F3E			
USKA	28095.0	0812	26	10			F3E			
USKA	28105.0	0821	23	10			F3E			
USKA	28115.0	0822	23	10			F3E			
USKA	28135.0	1424	31	10			F3E			
USKA	28145.0	0823	23	10			F3E			
USKA	28150.0	0823	23	10			F3E			
USKA	28155.0	1134	23	10			F3E			
USKA	28165.0	0825	23	10			F3E			
USKA	28170.0	0825	23	10			F3E			
USKA	28175.0	0827	23	10			F3E			
USKA	28180.0	0826	23	10			F3E			
USKA	28185.0	0827	23	10			F3E			
USKA	28195.0	1156	23	10			F3E			
USKA	28210.0	0829	23	10			F3E			
USKA	28215.0	0829	23	10			F3E			
USKA	28235.0	0830	23	10			F3E			
USKA	28250.0	0831	23	10			F3E			
USKA	28255.0	1139	23	10			F3E			
USKA	28265.0	1137	23	10			F3E			
USKA	28275.0	0831	23	10			F3E			
USKA	28285.0	1135	23	10			F3E			
USKA	28295.0	1158	23	10			F3E			
USKA	28315.0	0834	23	10			F3E			
USKA	28335.0	1134	23	10			F3E			
USKA	28355.0	0836	23	10			F3E			
USKA	28365.0	0835	23	10			F3E			
USKA	28625.0	0905	23	10			F3E			
USKA	28655.0	1141	23	10			F3E			
USKA	28675.0	1139	23	10			F3E			
USKA	28735.0	0904	23	10			F3E			
USKA	28745.0	1358	23	10			F3E			
USKA	28780.0	0903	23	10			F3E			
USKA	28795.0	1348	23	10			F3E			

Asumed as Taxi dispatching stations. All found almost daily										
SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
USKA	28800.0	1150	23	10			F3E			
USKA	28815.0	1346	23	10			F3E			
USKA	28825.0	1317	23	10			F3E			
USKA	28840.0	0902	23	10			F3E			
USKA	28885.0	1345	23	10			F3E			
USKA	28900.0	0957	29	10			F3E			
USKA	28915.0	1151	26	10			F3E			
USKA	28925.0	0855	23	10			F3E			
USKA	28930.0	1359	23	10			F3E			
USKA	28935.0	0900	23	10			F3E			
USKA	28950.0	1152	23	10			F3E			
USKA	28955.0	1156	26	10			F3E			
USKA	28975.0	1154	26	10			F3E			
USKA	28990.0	1202	23	10			F3E			
USKA	28995.0	1159	23	10			F3E			
USKA	29005.0	0856	23	10			F3E			
USKA	29015.0	1342	23	10			F3E			
USKA	29025.0	1157	26	10			F3E			some kind of selcall
USKA	29035.0	1402	23	10			F3E			
USKA	29065.0	1158	26	10			F3E			
USKA	29075.0	0853	23	10			F3E			
USKA	29085.0	0908	23	10			F3E			
USKA	29115.0	0907	23	10			F3E			
USKA	29140.0	1421	23	10			F3E			
USKA	29155.0	1420	23	10			F3E			
USKA	29165.0	1001	29	10			F3E			
USKA	29185.0	0906	23	10			F3E			
USKA	29195.0	1202	26	10			F3E			
USKA	29225.0	1200	26	10			F3E			
USKA	29265.0	0816	26	10			F3E			
USKA	29275.0	0818	26	10			F3E			
USKA	29315.0	1204	26	10			F3E			
USKA	29325.0	0821	26	10			F3E			
USKA	29335.0	1411	23	10			F3E			
USKA	29385.0	1417	23	10			F3E			
USKA	29390.0	1355	23	10			F3E			
USKA	29395.0	1206	26	10			F3E			
USKA	29405.0	1410	26	10			F3E			
USKA	29415.0	1407	23	10			F3E			
USKA	29435.0	1413	26	10			F3E			
USKA	29440.0	1408	23	10			F3E			
USKA	29475.0	1415	26	10			F3E			
USKA	29490.0	1350	23	10			F3E			
USKA	29535.0	1429	31	10			F3E			
USKA	29635.0	1349	23	10			F3E			

Veron 1 – Netherlands – PA2GRU (Dick)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
VERON	3539,0	20.27	4	10	CIS	UiCW	A1A			5F (ending 836 rpt al QLN ar)
VERON	7008,00	15.06	17	10	?		F1B		250	ptr
VERON	7038,7	17.06	2	10	UKR	D	A1A			D-beacon, akso 7/10-11/10
VERON	7038,7	18.51	27	10	UKR	D	A1A			Beacon Sevastopol
VERON	7038,8	06.30	16	10	RUS	P	A1A			P-beacon (par 7077,6). Stops at 06.32z.
VERON	7038,9	06.15	11	10	RUS	S	A1A			S-beacon
VERON	7038,9	18.51	27	10	RUS	S	A1A			Beacon Severomorsk, also 9/10-13/10
VERON	7039,0	15.25	23	10	RUS	C	A1A			C-beacon. Weak.
VERON	7069,0	20.00	28	10	RUS	UiCW	A1A			dots, long lasting, nr Samara
VERON	7069,0	21.23	28	10	RUS	UiCW	A1A			dotter

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
VERON	7077,6	06.27	16	10	RUS	P	A1A			P-beacon, also 10/10,13/10-16/10
VERON	7080,0	18.12	22	10	RUS	UiPtr	F1B		200	Ptr,
VERON	7117,0	18.53	7	10	RUS	REA4	F1B		1000	Airforce, daily, idle
VERON	7120,0	18.54	7	10	SOM	R.Har	A3E			speech
VERON	7120,00	19.00	15	10	SOM	R.Har	A3E			speech
VERON	7132,0	18.55	7	10	RUS	UiMUX	PSK		2600	12 MPSK AT3004-D Voronezh
VERON	7172,0	17.33	21	10	RUS	UiMUX	PSK		2600	12 MPSK AT3004-D
VERON	7176,0	18.56	7	10	RUS	UiPtr	F1B		250	Revs, bad signals, also 12/10, 14/10
VERON	7198,0	20.41	8	10	RUS	UiMUX	PSK		2600	12 MPSK AT3004-D, Moscow
VERON	14026,0	11.16	8	10	RUS	UiMUX	PSK		2600	12 MPSK AT3004-D, Moscow
VERON	14026,0	13.02	10	10	RUS		J7D	12x1 20	2600	UiMUX
VERON	14133,0	09.53	22	10	RUS	UiPtr	F1B		250	Ptr,
VERON	14160,0	14.58	17	10	?		F1B		250	ptr
VERON	14160,0	09.02	15	10		UiPTR	F1B			Ptr (also at 17/10)
VERON	14192,0	08.20	14	10	RUS	UiPtr	F1B	50	200	revs, ptr
VERON	14240,0	10.29	7	10		UiPtr	F1B		250	Ptr, also 8/10 06.37 utc
VERON	14242,0	06.55	22	10	RUS	UiMUX	PSK		2600	12 MPSK AT3004-D
VERON	14342,0	09.21	10	10	RUS	UiPtr	F1B		250	Ptr, also 8/10 06.37 utc
VERON	18072,0	10.40	22	10		UiPTR	F1B			Ptr
VERON	18072,0	10.40	22	10		UiPTR	F1B			Ptr
VERON	21001,5	09.38	10	10	RUS	UiPtr	F1B		150	Vocoder Yaktha, Tagil
VERON	21392,0	11.00	29	10		OTHR	FMCW			radar, 20 KHZ wide
VERON	21438,0	15.27	6	10	RUS	RCV	A1A			RMC99 DE RCV QTC 473 34 6 1908 473 BT
VERON	21438,0	15.27	6	10	RUS	RCV	A1A			SML BT 22222 (etc, 5F)
VERON	21438,0	07.10	14	10	RUS	RCV	A1A			RHI99 DE RCV QSA? K
VERON	21438,0	08.30	4	10	RUS	RCV	A1A			QTC 674 Nawip 038 (to RIP90)
VERON	21438,0	13.10	4	10	RUS	RCV	A1A			QYT4 QWH 9289 k (to RFE70)
VERON	21438,0	13.12	4	10	RUS	RCV	A1A			QTC 663 Prognoz Pogody (to RKZ)
VERON	21438,0	10.05	16	10	RUS	RCV	A1A			22222 5F
VERON	21438,0	08.35	17	10	RUS	RCV	A1A			QYT4 QSX 16760 k (to RIR96)
VERON	21438,0	08.30	4	10	RUS	RCV	A1A			QTC 674 Nawip 038 (to RIP90)
VERON	21438,0	13.10	4	10	RUS	RCV	A1A			QYT4 QWH 9289 k (to RFE70)
VERON	21438,0	13.12	4	10	RUS	RCV	A1A			QTC 663 Prognoz Pogody (to RKZ)
VERON	21438,0	10.05	16	10	RUS	RCV	A1A			22222 5F
VERON	21438,0	08.35	17	10	RUS	RCV	A1A			QYT4 QSX 16760 k (to RIR96)
VERON	28175,0	09.40	22	10	RUS	Taxi	F3E			taxi traffic
VERON	28195,0	10.47	20	10	RUS	Taxi	F3E			taxi traffic
VERON	28195,0	11.00	20	10	RUS	Taxi	F3E			female
VERON	28255,0	13.41	26	10	CIS		F3E			Taxi traffic
VERON	28270,0	15.40	19	10	RUS	Taxi	F3E			taxi traffic
VERON	28275,0	10.02	27	10	CIS		F3E			Taxi traffic
VERON	28285,0	10.46	20	10	RUS	Taxi	F3E			taxi traffic
VERON	28365,0	10.14	27	10	CIS		F3E			Taxi traffic
VERON	28430,0	10.30	29	10	RUS	Taxi	F3E			taxi traffic, female
VERON	29265,0	15.41	19	10	RUS	Taxi	F3E			taxi traffic
VERON	29610,0	15.42	19	10	RUS	Taxi	F3E			taxi traffic

The monitoring team of IARU Region 1

Many thanks for your interest!

credits:

Wavecom Elektronik – Buelach – Switzerland

SSB-Electronic – Iserlohn – Germany

BAZ – Special Antennas – Bad Bergzabern - Germany

go2SIGNALS - PLATH AG – Bern - Switzerland

German PTT (BNetzA = Federal Network Agency)

compiled and published by DK2OM

November 2013