International Amateur Radio Union

Region 1

Monitoring System

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The monthly newsletter for Region 1

April 2012

The 23 members of the IARUMS Region 1 Monitoring Team:

Acknowledgements

++ ARI: DH7SA – Salvatore ++ ARSK: 5Z4NU - Ted ++ ASTRA: DL1BDF – Mustapha ++ DARC: DJ9KR – Uli ++
++ ERASD: SU1SA – Sayed ++ IRTS: EI4GXB - Ger ++ KARS: 9K2RR – Faisal ++ MARL: 9H1M – Dominic ++
++ MRASZ: HA7PL - Laci ++ NARS: 5N9AYM – Yusuf ++ NRRL: LA4EU – Hans Arne ++ OEVSV: OE3GSA – Gerd ++
++ PZK: SP3SUZ – Wladyslaw ++ RAL: OD5MV – Raja ++ REP: CT4AN – Jose ++ RSGB: G4BOH - Chris ++
++ SARL: ZS1FCS - Fred ++ SRAL: OH2BLU - Pekka ++ 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) ++ SK6AW – DX-Cluster ++

Part 1: News and infos
Part 2: Detailed reports of the national co-ordinators

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Part 1: News and Infos

1. **3501 kHz – CIS music place**
   I often observed music transmissions on 3501 kHz in AM in the evening hours. The modulation was poor and the carrier unstable, typical of CIS pirates.

2. **28000 – 29700 kHz – Far East pirates and CIS taxis**
   During band openings to Far East many Far East pirates appeared on our 10 m-band, covering the whole band in AM with 10 kHz increments. The CIS taxis are abusing the band in FM as before, no change.

3. **7000 – 7200 kHz – Chinese Radars**
   Chinese OTH and Coastal Radars were daily abusing our 40 m-band. The OTHRs transmitted with 43.5 sps and the Coastal Radars with 2.6 sps. The situation in Region 3 and USA West-Coast was very bad. Sometimes 40 – 50 % of our band was covered by the strong signals.

4. **18, 21, 24 and 28 MHz – Turkey and Cyprus OTH Radar bands**
   We found many OTH radar emissions from Turkey and Cyprus daily on our upper bands, but more Turkish than Cyprus radars. The Cyprus Radar is operated by the British Air Force. Parameters: 50 sps – 20 kHz wide.

5. **Radio Tajik on 14295 kHz – actions by PA2GRU and G4BOH**
   We can daily observe Radio Tajik on 14295 kHz (harmonic from 4765 kHz). We got many complaints from Radio-Amateurs during the last months. But moaning and official complaints did not help. So PA2GRU sent a complaint to the Tajikistan embassy in Belgium. G4BOH, Chris, informed OFCOM Baldock. Baldock sent an official complaint to the Tajikistan PTT. **Many thanks Dick and Chris!** Read Dick´s letter:

   Dear Mr. Ambassador,

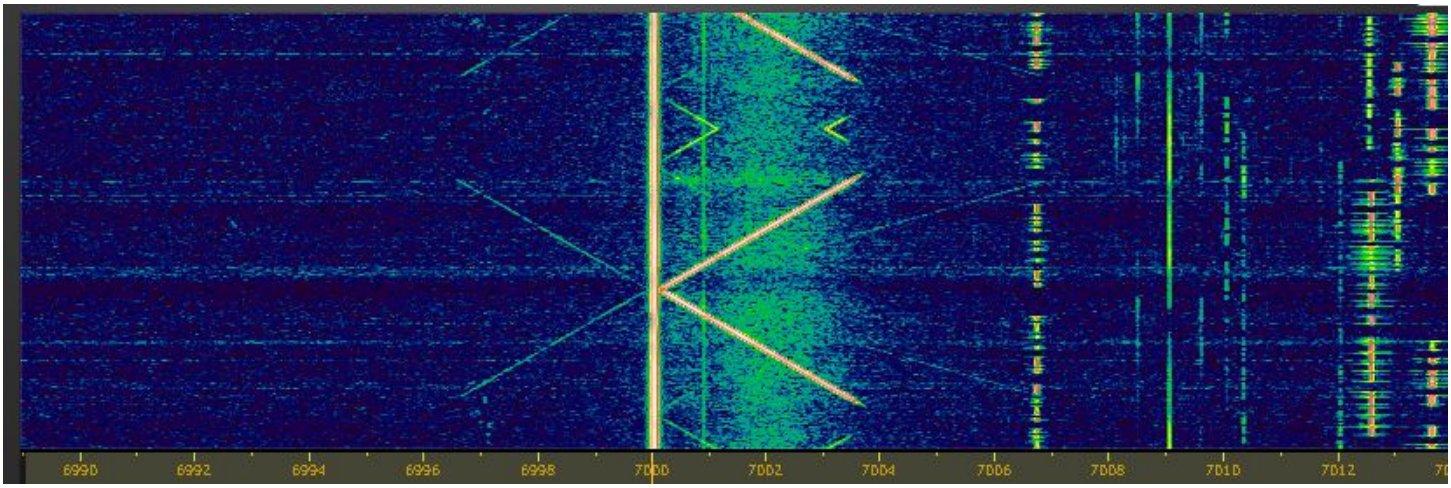
   Radio Tajik is transmitting daily a broadcasting program on a frequency of 4765 KHZ..
   The location of the transmitter is Dushanbe. This transmitter has an extremely strong harmonic on 14295 KHz, in the exclusive 20 meter amateur band. As the range 14000 – 14350 kHz is allocated world wide to the Amateur Radio Service, these transmissions are causing very harmful interference to the Radio Amateurs world wide. Therefore I ask you to contact the Headquarters of "Tajik Radio" to stop harmful Interference immediately. The radio Amateurs of the world have the right to use their exclusive Amateur Radio frequencies without the interference of "Tajik Radio". Thank you very much for taking action.

   Yours very truly,

   Dick van Empelen, PA2GRU - *Coordinator of Veron IARU MONITORING SYSTEM*

6. **Mysterious "X" from Israel on 7000 kHz**
   OH2BLU found the mysterious X on 7000 kHz from Israel on April 28th. The signals were even audible in USA, Japan and Australia. Purpose unknown. **Screenshot: DK2OM with Perseus**

   soundfile: **http://www.iarums-r1.org/iarums/sound/7000-v.wav**



7. **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**

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** = othogonal 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)

ARSK MONITORING OVERVIEW FOR APRIL 2012

Nothing of local interest was observed except for apparently East African military intruders on 7,000 kHz and the usual broadcasts from Khartoum on 7200 kHz, Addis Ababa and Asmara (Eritrea) on other 40 meter frequencies between 7100 and 7200 kHz. Propagation was not good.

E.H.M. Alleyne, 5Z4NU
ARSK National IARUMS Co-ordinator

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ARSK – Kenya – 5Z4NU (Ted)

H'd by	kHz	UTC	dd	mm	ITU	Identity	MODE	Details
ARSK	7000.0	1400	dly	4	?	UiPHONE	J3E	Kiswahili, military?
ARSK	7175.0	vt	var	4	VoBM	UiBC	A3E	VoBM, Eritrea
ARSK	7180.0	vt	var	4	ETH? ETR?	UiBC	A3E	Possibly VOBM or Addis Ababa.
ARSK	7200.0	vt	dly	4	SDN	Khartoum	A3E	Broadcast, Khartoum.

DARC 1 – Germany – DJ9KR (Uli)
BC transmissions, IM products, harmonics = blue

CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	Remarks and Comments
DARC	3500,0	1924	01	04	HOL	UiILL	J3E-L	Dutch male voices
DARC	3500,0	1938	02	04	I	UiILL	J3E-L	Italian pirates playing music
DARC	3500,0	0632	20	04	I	UiILL	J3E-U	Italian pirates, SSB-USB used
DARC	3500,0	vt	vd	04	G	UiILL	J3E-U	UK fishery heard 11 15 at 1946, 2019. Very rude and obscende to hams.
DARC	3500,5	1914	15	04	CIS	UiILL	A3E	CIS pirates, carrier rocking
DARC	3505,0	1934	02	04	I	UiILL	J3E-L	Italian pirates playing music
DARC	3515,7	2113	01	04	CIS	UiILL	A3E	unstable carrier
DARC	3517,4	vt	vd	04	E	UiILL	J3E-L	Spanish fishery daily at 2000 UTC
DARC	3519,0	2022	01	04	G	UiILL	J3E-U	UK fishery, rude and obscene
DARC	3520,0	1651	10	04	N.Eu	UiILL	J3E-U	Scandinavians
DARC	3520,0	1951	19	04	RUS	UiILL	J3E-U	woman in Russian voice
DARC	3520,0	vt	vd	04	HOL	UiILL	J3E-U	Dutch fishery heard 03 04 at 1920, 0850
DARC	3529,9	1915	15	04	CIS	UiILL	A3E	CIS pirates, carrier rocking
DARC	3534,2	1916	15	04	CIS	UiILL	A3E	CIS pirates, carrier rocking
DARC	3535,0	2156	03	04	HOL	UiILL	J3E-U	Dutch fishery
DARC	3539,0	1939	05	04	F	UiILL	J3E-U	French pirates
DARC	3544,4	2033	01	04	G	UiILL	J3E-U	UK fishery
DARC	**3550,0**	**0559**	**dly**	**04**	**F**	**French Lis Amateurs**	**A3E**	**AM in CW-section, not good!**
DARC	3560,0	1908	12	04	N.Eu	UiILL	J3E-U	Scandinavians
DARC	3570,0	1910	20	04	N.Eu	UiILL	J3E-U	Scandinavians
DARC	7000,0	0922	07	04	I	UiILL	J3E-U	Italian pirates, SSB-USB
DARC	7000,0	0930	08	04	E	UiiLL	J3E-U	Spanish fishery
DARC	7000,0	1640	10	04	I	UiILL	J3E-U	Italian pirates, SSB-USB used
DARC	7000,0	vt	13	04	F	UiCAR	N0N	carrier S9+30dB, heard 0947 - 1244, location west of Paris - H. Löwner
DARC	7000,0	vt	13	04		UiBC	A3E	slight music below carrier, 0947 - 1244
DARC	7000,0	1710	15	04	I	UiILL	J3E-L	Italian male traffic

CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	Remarks and Comments
DARC	7000,0	1803	19	04	ISR	UiCAR	N0N	long lasting carrier heard 13 19 24 28 30
DARC	7000,0	1100	dly	04	I	UiILL	J3E-U	Italian pirates, SSB-USB
DARC	7000,0	vt	vd	04	E	UiILL	J3E-L	Spanish fishery, male to female person, heard 10 20 22 at 2129, 0850, 1805
DARC	7000,0	vt	vd	04	E	UiILL	J3E-L	Spanish fishery heard 01 05 at 1934, 0800
DARC	7000,0	vt	vd	04	INS	UiILL	J3E	Indonesian pirate net, using SSB-USB and/or SSB-LSB - heard 01 02 25 at 1400, 1700, 1720 - audible west coast USA
DARC	7000,3	0020	13	04		UiILL	J3E-L	Spanish male traffic
DARC	7002,0	1702	17	04		UiCAR	N0N	carrier
DARC	7008,0	1730	17	04		UiCAR	N0N	carrier
DARC	7016,0	1803	19	04		UiPTR	F1B	unid printer
DARC	7020,0	0821	29	04	I	UiILL	J3E-L	2 Italian male persons in contact
DARC	7038,7	0046	dly	04	UKR	beacon D	A1A	beacon "D" - Sevastopol
DARC	7038,8	vt	vd	04	RUS	beacon P	A1A	beacon "P" - Kaliningrad
DARC	7038,9	vt	vd	04	RUS	beacon S	A1A	beacon "S" - Murmansk
DARC	7039,0	1800	06	04	RUS	beacon C	A1A	beacon "C" - Moscow
DARC	7039,1	vt	vd	04	KGZ	beacon A	A1A	beacon "A" - Bishkek
DARC	7039,2	vt	vd	04	RUS	beacon F	A1A	beacon "F" - Vladyvostok
DARC	7039,3	vt	vd	04	RUS	beacon K	A1A	beacon "K" – Petropavlovsk Kamchatki
DARC	7039,4	vt	vd	04	RUS	beacon M	A1A	beacon "M" - Magadan
DARC	7041,8	vt	vd	04	RUS	beacon L	A1A	beacon "L" - St. Petersburg
DARC	7100,0	1743	08	04	ERI	VOBME	A3E	Ar px S9, weak modulation, found // 7165
DARC	7100,0	1540	11	04	ETH	Govt. Jam	JAM	white noise jammer
DARC	7100,0	1540	11	04	ERI	VOBME	A3E	under wn-jammer
DARC	7105,0	2128	03	04		UiILL	P0N	strings of rattling pulses, 15 kHz spread
DARC	7105,0	2156	13	04	TWN	Sound of Hope	A3E	under Chinese BC which is used as a jammer
DARC	7105,0	2156	13	04	CHN	Soh Xi Wang Zhi Sheng	A3E	Chinese BC used as a jammer
DARC	7110,0	0005	03	04	BRM	R.Myanmar	A3E	Asian mx
DARC	7110,0	1702	15	04	ERI	VOBME	A3E	low signal found // 7190
DARC	7110,0	1404	30	04	BRM	R.Myanmar	A3E	heard loudly by remote station in Japan
DARC	7110,0	1540	vd	04	ERI	VOBME	A3E	under heavy jam by ETH
DARC	7110,0	1540	vd	04	ETH	Govt. Jam	JAM	heavy white noise jam
DARC	7111,0	0005	03	04	POR	UiILL	J3E-U	2 male persons, Portuguese language
DARC	7115,0	1630	vd	04	ERI	VOBME	A3E	is active
DARC	7115,0	1630	vd	04	ETH	Govt. Jam	JAM	white noise jammer on VOBME
DARC	7120,0	0215	07	04	RUS	Voz de Rusia	A3E	Spanish px, splattering vy much down into ham band, rocking carrier
DARC	7120,0	vt	18	04	ERI	VOBME	A3E	under white noise jammer, heard 1610 - 1645
DARC	7120,0	vt	18	04	ETH	Govt. Jam	JAM	white noise jammer, heard 1610 - 1645
DARC	7120,0	1701	30	04	ERI	VOBME	A3E	under wn-jammer
DARC	7120,0	1701	30	04	ETH	ETH Govt. Jam	JAM	white noise jammer
DARC	7125,0	1551	03	04	I	UiILL	J3E-L	reproducing music on Italian QSO, S9+20dB
DARC	7160,0	1733	08	04	ETH	Govt. Jam	JAM	heavy white noise jam - report DL1ZG
DARC	7160,0	1733	08	04	ERI	VOBME	A3E	under heavy white noise jam - report DL1ZG
DARC	7160,0	1625	vd	04	ERI	VOBME	A3E	under heavy jam by ETH
DARC	7160,0	1625	vd	04	ETH	Govt. Jam	JAM	heavy white noise jam
DARC	7165,0	1743	08	04	ERI	VOBME	A3E	Ar px S9+20dB, found // 7100
DARC	7165,0	1644	vd	04	ERI	VOBME	A3E	under heavy jam by ETH
DARC	7170,0	1754	16	04	ERI	VOBME	A3E	typical HOA music
DARC	7175,0	1540	11	04	ETH	Govt. Jam	JAM	white noise jammer
DARC	7175,0	1540	11	04	ERI	VOBME	A3E	under wn-jammer
DARC	7179,0	2050	01	04	RUS	V.o.Russia	A3E	is IM
DARC	7179,0	vt	08	04	RUS	V.o.Russia	A3E	IM 6090 x 1089, heard 1950 - 2100, tx-er Krasnodar-Armavir Tbilisskaya, IM also found on 5001 - already heard/reported 31 Oct - Nov 2010

CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	Remarks and Comments
DARC	7180,0	1540	02	04	ERI	VOBME	A3E	under heavy wn jammer from ETH
DARC	7180,0	1540	02	04	ETH	Govt. Jam	JAM	heavy wn jammer from ETH
DARC	7180,0	vt	19	04	ERI	VOBME	A3E	heard 1717 - 1800, s/off with song "Eritriya", 1820: carrier off
DARC	7185,0	1430	07	04	ETH	Govt. Jam	JAM	white noise jammer
DARC	7185,0	1430	07	04	ERI	VOBME	A3E	covered by white noise jammer
DARC	7185,0	vt	07	04	ERI	VOBME	A3E	heard 1750 - 1801 s/off, 1759: "Eritriya", Ar px S9+35dB
DARC	7189,7	0015	03	04	CLN	SLBC	A3E	measuring tone
DARC	7189,7	0215	07	04	CLN	SLBC Sri Lanka	A3E	typical music
DARC	7190,0	1618	01	04	ERI	VOBME	A3E	under heavy jam by ETH
DARC	7190,0	1618	01	04	ETH	Govt. Jam	A3E	under heavy jam by ETH
DARC	7195,0	1443	26	04	ERI	VOBME	A3E	jingle, found // to R.Ethiopia on the same QRG
DARC	7195,0	1555	27	04	ETH	R.Ethiopia	A3E	jingle, found // to VOBME on the same QRG
DARC	7199,0	0938	08	04		UiPTR	F1B	fast reversals
DARC	7200,0	1618	01	04	ETH	R.Ethiopia	A3E	En px
DARC	7200,0	2122	01	04	IRN	IRIB	A3E	Japanese px S9+25dB
DARC	7200,0	0335	03	04	IRN	Voice of Justice (IRIB)	A3E	English px S9+30dB, found // with R.Omdurman
DARC	7200,0	1547	03	04	ETH	R.Ethiopia	A3E	En px, crackling noise
DARC	7200,0	2125	03	04	IRN	IRIB	A3E	Japanese px, S9+20dB
DARC	7200,0	1648	04	04	SDN	R.Omdurman	A3E	Ar px completely distorted, at 1702: nil
DARC	7200,0	2031	12	04		UiBC	A3E	Ar px
DARC	7200,0	2142	13	04	IRN	IRIB	A3E	Japanese px
DARC	7200,0	0330	14	04	IRN	Voice of Justice / IRIB	A3E	s/on with National Anthem, then px in English voice - 1st heard 30 October for HFCC B11-saison, sked: 0330 - 0430
DARC	7200,0	1520	14	04	AFG	Ntl.Radio of Afghanistan	A3E	tabla music
DARC	7200,0	1520	14	04	SDN	R.Omdurman	A3E	Al-Qur'an recitals
DARC	7200,0	1610	18	04		UiBC	A3E	BC heard, not R.Afghanistan
DARC	7200,0	1610	18	04	AFG	Ntl. Radio of Afghanistan	A3E	typical music
DARC	7200,0	1817	18	04	SDN	R.Omdurman	A3E	Ar px
DARC	7200,0	1520	19	04		UiBC	A3E	Ar px
DARC	7200,0	1520	19	04		UiBC	A3E	HOA music
DARC	7200,0	1658	21	04	ETH	R. Ethiopia	A3E	ann.: "External Service of R.Ethiopia", found // with VOBME
DARC	7200,0	1658	21	04	ERI	VOBME	A3E	at 1700 s/on French px
DARC	7200,0	1640	22	04	SDN	R.Omdurman	A3E	Ar px, also En report abt "Sudan"
DARC	7200,0	1816	27	04	RUS	Voice of Russia	A3E	Russian px, splatters from 7212,5
DARC	7200,0	1828	27	04	TUR	Stimme der Türkei	A3E	Ge px, splatters from 7210
DARC	7200,0	0240	28	04	SDN	R.Omdurman	A3E	Quran recitals
DARC	7200,0	0429	28	04	IRN	IRIB	A3E	jingle
DARC	7200,0	1745	28	04		UiBC	A3E	S9+25dB-signal, weak modulation, Arabic language
DARC	7200,0	0337	29	04	IRN	Voice of Justice	A3E	ann: "This is the Voice of Justice from Tehran", distorted and crackling modulation, dumb modulation
DARC	7200,0	1650	30	04		UiBC	A3E	En px
DARC	7200,0	1650	30	04		UiBC	A3E	Oriental mx
DARC	10101,0	1900	15	04	Af	UiILL	J3E-U	African Tribal language
DARC	10101,0	2003	23	04	Af	UiILL	J3E-U	pirates, African tribal language
DARC	10102,0	2126	04	04	CTI	UiILL	J3E-U	pirates off the coast of Ivory Coast
DARC	10121,3	1638	20	04	S.As	UiILL	J3E-U	2 male persons, S.As language
DARC	10125,0	0733	16	04	POR	UiILL	J3E-U	2 male persons in Portuguese voice
DARC	10131,0	2144	13	04	MRC	UiILL	J3E-U	male net in Arabic
DARC	10133,0	1638	20	04	S.As	UiILL	J3E-U	2 male persons, S.As language
DARC	10135,6	vt	vd	04		UiILL	J3E-U	unid pirates heard 02 03 at 2023, 2032
DARC	10147,0	vt	12	04		UiBC	A3E	carrier unstable, language poss. Russian - heard 1715 - 1730 s/off
DARC	10147,5	1715	12	04		UiBC	A3E	IM product

CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	Remarks and Comments
DARC	10150,0	0819	04	04	I	UiILL	J3E-U	Italian pirates
DARC	10150,0	1805	06	04		UiILL	J3E-U	unid male voices
DARC	10150,0	1848	26	04	MRC	UiILL	J3E-U	Moroccan fishery
DARC	10150,0	1815	dly	04	E	UiILL	J3E-U	Spanish and Moroccan fishery
DARC	14000,0	1518	02	04	INS	UiILL	J3E-U	Indonesian pirate net
DARC	14000,0	0917	dly	04	MRC	UiILL	J3E-U	Moroccan fishery
DARC	14000,0	1800	dly	04	INS	UiILL	J3E-U	Far East pirates, singing and fooling around, heard 1500, 1800
DARC	14070,0	1500	04	04	S.Eu	UiBC	A3E	music, Slavonic voice - report DL3XZ
DARC	14075,0	1505	15	04	F.Ea	Sea Wave Radar	FMCW	heard 14075 - 14115 kHz
DARC	14075,0	1647	21	04		Sea Wave Radar	FMCW	heard 14075 - 14120 kHz
DARC	14160,0	1625	04	04		UiMUX	XXX	rushing noise S9+20dB
DARC	14295,0	1625	04	04	TJK	R.Tajikistan	A3E	harmonic, S8-signal, pulsating carrier
DARC	14295,1	vt	dly	04	TJK	R.Tajikistan	A3E	3f de 4765, daily heard 0800 - 1000, 1500, 1600
DARC	14345,0	1505	12	04		UiOTHR	FMCW	chirping pulses in 3 s strings with pauses, S9+10dB
DARC	14350,0	0808	04	04	E	UiILL	J3E-U	Spanish fishery heard with phone patches
DARC	14370,0	vt	24	04		UiOTHR	FMCW	heard 0720 - 0835, just info!
DARC	21000,0	vt	09	04		UiOTHR	FMCW	report DG0JBJ
DARC	21001,0	0900	19	04	CLN	UiILL	J3E-L	Sinhala fishery, SSB-LSB, QTE 100 degs.
DARC	21002,0	1040	05	04	F.Ea	UiILL	J3E-L	Far East pirates, INS?
DARC	21010,0	vt	16	04		UiOTHR	FMCW	report DG0JBJ
DARC	21010,0	vt	21	04		UiOTHR	FMCW	heard 1658 (s/on) - 1712
DARC	21012,0	1834	10	04	MRC	UiILL	J3E-U	Moroccan pirates
DARC	21020,0	vt	03	04		UiOTHR	FMCW	report DG0JBJ
DARC	21025,0	vt	06	04		UiOTHR	FMCW	report DG0JBJ
DARC	21030,0	vt	25	04		UiOTHR	FMCW	report DG0JBJ
DARC	21050,0	vt	11	04		UiOTHR	FMCW	report DG0JBJ
DARC	21070,0	vt	15	04		UiOTHR	FMCW	report DG0JBJ
DARC	21090,0	vt	11	04		UiOTHR	FMCW	report DG0JBJ
DARC	21100,0	vt	vd	04		UiOTHR	FMCW	report DG0JBJ - 8 reports all month
DARC	21115,0	vt	28	04		UiOTHR	FMCW	report DG0JBJ
DARC	21117,0	1523	04	04		UiILL	J3E-U	male net, QTE 120 degs.
DARC	21130,0	vt	03	04		UiOTHR	FMCW	report DG0JBJ
DARC	21140,0	vt	27	04		UiOTHR	FMCW	report DG0JBJ
DARC	21150,0	vt	08	04		UiOTHR	FMCW	report DG0JBJ
DARC	21170,0	vt	28	04		UiOTHR	FMCW	report DG0JBJ
DARC	21190,0	vt	vd	04		UiOTHR	FMCW	report DG0JBJ - 8 reports all month
DARC	21195,0	vt	30	04		UiOTHR	FMCW	report DG0JBJ
DARC	21200,0	vt	vd	04		UiOTHR	FMCW	report DG0JBJ - 6 reports all month
DARC	21200,0	2203	13	04	MRC	UiOTHR	FMCW	home string space radar
DARC	21210,0	1453	12	04		UiOTHR	FMCW	30 kHz spread
DARC	21215,0	vt	30	04		UiOTHR	FMCW	report DG0JBJ
DARC	21220,0	vt	25	04		UiOTHR	FMCW	report DG0JBJ
DARC	21230,0	vt	03	04		UiOTHR	FMCW	report DG0JBJ
DARC	21240,0	vt	vd	04		UiOTHR	FMCW	report DG0JBJ - 4 reports all month
DARC	21250,0	vt	03	04		UiOTHR	FMCW	report DG0JBJ
DARC	21265,0	vt	23	04		UiOTHR	FMCW	report DG0JBJ
DARC	21270,0	vt	08	04		UiOTHR	FMCW	report DG0JBJ
DARC	21270,0	vt	08	04		UiOTHR	FMCW	report DG0JBJ
DARC	21300,0	vt	03	04		UiOTHR	FMCW	report DG0JBJ
DARC	21310,0	vt	06	04		UiOTHR	FMCW	report DG0JBJ
DARC	21315,0	vt	23	04		UiOTHR	FMCW	mirror of 21265 - report DG0JBJ
DARC	21320,0	vt	11	04		UiOTHR	FMCW	report DG0JBJ
DARC	21325,0	vt	01	04		UiOTHR	FMCW	report DG0JBJ
DARC	21330,0	vt	03	04		UiOTHR	FMCW	report DG0JBJ
DARC	21350,0	1732	11	04	E	UiILL	J3E-U	Spanish fisherman with woman, SSB-USB (so outside ham band, but earlier has also been using LSB.)
DARC	21360,0	vt	12	04		UiOTHR	FMCW	report DG0JBJ
DARC	21370,0	vt	03	04		UiOTHR	FMCW	report DG0JBJ
DARC	21375,0	vt	03	04		UiOTHR	FMCW	report DG0JBJ
DARC	21375,0	vt	06	04		UiOTHR	FMCW	report DG0JBJ

CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	Remarks and Comments
DARC	21380,0	vt	06	04		UiOTHR	FMCW	report DG0JBJ
DARC	21390,0	vt	16	04		UiOTHR	FMCW	report DG0JBJ
DARC	21400,0	vt	vd	04		UiOTHR	FMCW	report DG0JBJ - 7 reports all month
DARC	21430,0	vt	08	04		UiOTHR	FMCW	report DG0JBJ
DARC	21450,0	vt	vd	04		UiOTHR	FMCW	report DG0JBJ - 7 reports all month
DARC	21455,0	vt	01	04		UiOTHR	FMCW	report DG0JBJ
DARC	27990,0	vt	02	04		UiOTHR	FMCW	report DG0JBJ
DARC	28000,0	0937	21	04	F.Ea	UiILL	A3E	the whole range 28000 - 29700 kHz is crowded with Far East CB-ers
DARC	28005,0	1800	09	04	B	UiILL	A3E	CB-ers
DARC	28015,0	1414	01	04	F.Ea	UiILL	A3E	Far East pirates
DARC	28025,0	1757	12	04	B	UiILL	A3E	CB-ers
DARC	28035,0	1825	04	04	B	UiILL	A3E	Brazilian CB-ers
DARC	28041,0	vt	vd	04		Fishnet Buoys	A1A	29 reports re. Fishnet Buoys in the range 28041 - 28452 - reported by DJ7KG, DK2OM, G3YBT, KG4GVV
DARC	28050,0	vt	09	04		UiOTHR	FMCW	report DG0JBJ
DARC	28055,0	1825	04	04	B	UiILL	A3E	Brazilian CB-ers
DARC	28055,0	1050	06	04	CIS	Taxi Traffic	F3E	traffic RUS voice, fem. at base station, male in taxi
DARC	28065,0	1050	06	04	CIS	Taxi Traffic	F3E	traffic RUS voice, fem. at base station, male in taxi
DARC	28065,0	vt	vd	04	B	UiILL	A3E	Brazilian CB-ers heard 03 04 at 1838, 1831
DARC	28066,0	1826	12	04	MRC	UiILL	J3E-U	Moroccan fishery
DARC	28070,0	vt	09	04		UiOTHR	FMCW	report DG0JBJ
DARC	28085,0	0937	21	04	F.Ea	UiILL	A3E	Far East CB-ers
DARC	28105,0	1046	01	04	RUS	Taxi Traffic	F3E	Russian voice
DARC	28105,0	1825	04	04	B	UiILL	A3E	Brazilian CB-ers
DARC	28105,0	1050	06	04	CIS	Taxi Traffic	F3E	traffic RUS voice, fem. at base station, male in taxi
DARC	28105,0	0937	21	04	F.Ea	UiILL	A3E	Far East CB-ers
DARC	28110,0	vt	06	04		UiOTHR	FMCW	report DG0JBJ
DARC	28120,0	vt	10	04		UiOTHR	FMCW	report DG0JBJ
DARC	28125,0	0920	01	04	F.Ea	UiILL	A3E	Far East pirates
DARC	28145,0	1050	06	04	CIS	Taxi Traffic	F3E	traffic RUS voice, fem. at base station, male in taxi
DARC	28145,0	vt	vd	04	B	UiILL	A3E	Brazilian CB-ers heard 03 04 at 1838, 1831
DARC	28150,0	1010	12	04	RUS	UiILL	J3E	RUS MIL testing AT-3004-D
DARC	28155,0	1825	04	04	B	UiILL	A3E	Brazilian CB-ers
DARC	28155,0	1050	06	04	CIS	Taxi Traffic	F3E	traffic RUS voice, fem. at base station, male in taxi
DARC	28165,0	1415	01	04	F.Ea	UiILL	A3E	Far East pirates
DARC	28165,0	vt	vd	04	B	UiILL	A3E	Brazilian CB-ers heard 03 04 at 1838, 1831
DARC	28175,0	1829	03	04	E	UiILL	A3E	Spanish CB-ers
DARC	28175,0	vt	vd	04	B	UiILL	A3E	Brazilian CB-ers heard 03 04 at 1838, 1831
DARC	28185,0	1825	04	04	B	UiILL	A3E	Brazilian CB-ers
DARC	28185,0	1050	06	04	CIS	Taxi Traffic	F3E	traffic RUS voice, fem. at base station, male in taxi
DARC	28185,0	0937	21	04	F.Ea	UiILL	A3E	Far East CB-ers
DARC	28195,0	1050	06	04	CIS	Taxi Traffic	F3E	traffic RUS voice, fem. at base station, male in taxi
DARC	28200,0	1048	01	04	RUS	UiILL	J3E-U	vocoder YAKHTA, location Ufa
DARC	28215,0	vt	vd	04	B	UiILL	A3E	Brazilian CB-ers heard 03 04 at 1838, 1831
DARC	28225,0	vt	vd	04	B	UiILL	A3E	Brazilian CB-ers heard 03 04 at 1838, 1831
DARC	28235,0	1050	06	04	CIS	Taxi Traffic	F3E	traffic RUS voice, fem. at base station, male in taxi
DARC	28235,0	vt	vd	04	B	UiILL	A3E	Brazilian CB-ers heard 03 04 at 1838, 1831
DARC	28255,0	vt	vd	04	B	UiILL	A3E	Brazilian CB-ers heard 03 04 at 1838, 1831
DARC	28265,0	1050	06	04	CIS	Taxi Traffic	F3E	traffic RUS voice, fem. at base station,

CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	Remarks and Comments
								male in taxi
DARC	28265,0	0949	12	04	F.Ea	UiILL	A3E	Far East CB-ers
DARC	28295,0	vt	01	04		UiOTHR	FMCW	report DG0JBJ
DARC	28305,0	1825	04	04	B	UiILL	A3E	Brazilian CB-ers
DARC	28305,0	0937	21	04	F.Ea	UiILL	A3E	Far East CB-ers
DARC	28310,0	1949	19	04	B	UiILL	A3E	CB-ers
DARC	28315,0	1833	04	04	B	UiILL	A3E	Brazilian CB-ers
DARC	28340,0	vt	27	04		UiOTHR	FMCW	report DG0JBJ
DARC	28365,0	1050	06	04	CIS	Taxi Traffic	F3E	traffic RUS voice, fem. at base station, male in taxi
DARC	28375,0	1412	01	04	F.Ea	UiILL	A3E	Far East pirates
DARC	28400,0	vt	10	04		UiOTHR	FMCW	report DG0JBJ
DARC	28405,0	0937	21	04	F.Ea	UiILL	A3E	Far East CB-ers
DARC	28415,0	1050	06	04	CIS	Taxi Traffic	F3E	traffic RUS voice, fem. at base station, male in taxi
DARC	28425,0	1413	01	04	F.Ea	UiILL	A3E	Far East pirates
DARC	28425,0	0849	12	04	F.Ea	UiILL	A3E	Far East CB-ers
DARC	28470,0	vt	07	04		UiOTHR	FMCW	report DG0JBJ
DARC	28520,0	vt	12	04		UiOTHR	FMCW	report DG0JBJ
DARC	28585,0	0937	21	04	F.Ea	UiILL	A3E	Far East CB-ers
DARC	28590,0	vt	03	04		UiOTHR	FMCW	report DG0JBJ
DARC	28590,0	vt	03	04		UiOTHR	FMCW	report DG0JBJ
DARC	28595,0	1413	01	04	F.Ea	UiILL	A3E	Far East pirates
DARC	28595,0	0937	21	04	F.Ea	UiILL	A3E	Far East CB-ers
DARC	28610,0	vt	29	04		UiOTHR	FMCW	report DG0JBJ
DARC	28615,0	vt	28	04		UiOTHR	FMCW	report DG0JBJ
DARC	28625,0	1413	01	04	F.Ea	UiILL	A3E	Far East pirates
DARC	28630,0	vt	09	04		UiOTHR	FMCW	report DG0JBJ
DARC	28650,0	vt	06	04		UiOTHR	FMCW	report DG0JBJ
DARC	28655,0	0937	21	04	F.Ea	UiILL	A3E	Far East CB-ers
DARC	28660,0	vt	06	04		UiOTHR	FMCW	report DG0JBJ
DARC	28665,0	1414	01	04	F.Ea	UiILL	A3E	Far East pirates
DARC	28685,0	vt	02	04		UiOTHR	FMCW	report DG0JBJ
DARC	28690,0	vt	09	04		UiOTHR	FMCW	report DG0JBJ
DARC	28710,0	vt	vd	04		UiOTHR	FMCW	report DG0JBJ - 3 reports all month
DARC	28720,0	vt	06	04		UiOTHR	FMCW	report DG0JBJ
DARC	28755,0	1050	06	04	CIS	Taxi Traffic	F3E	traffic RUS voice, fem. at base station, male in taxi
DARC	28765,0	1050	06	04	CIS	Taxi Traffic	F3E	traffic RUS voice, fem. at base station, male in taxi
DARC	28790,0	1050	06	04	CIS	Taxi Traffic	F3E	traffic RUS voice, fem. at base station, male in taxi
DARC	28795,0	1050	06	04	CIS	Taxi Traffic	F3E	traffic RUS voice, fem. at base station, male in taxi
DARC	28800,0	vt	12	04		UiOTHR	FMCW	report DG0JBJ
DARC	28830,0	vt	07	04		UiOTHR	FMCW	report DG0JBJ
DARC	28835,0	1050	06	04	CIS	Taxi Traffic	F3E	traffic RUS voice, fem. at base station, male in taxi
DARC	28855,0	1050	06	04	CIS	Taxi Traffic	F3E	traffic RUS voice, fem. at base station, male in taxi
DARC	28935,0	1050	06	04	CIS	Taxi Traffic	F3E	traffic RUS voice, fem. at base station, male in taxi
DARC	28960,0	1050	06	04	CIS	Taxi Traffic	F3E	traffic RUS voice, fem. at base station, male in taxi
DARC	28975,0	1050	06	04	CIS	Taxi Traffic	F3E	traffic RUS voice, fem. at base station, male in taxi
DARC	29000,0	vt	vd	04		UiOTHR	FMCW	report DG0JBJ - 7 reports all month
DARC	29005,0	1050	06	04	CIS	Taxi Traffic	F3E	traffic RUS voice, fem. at base station, male in taxi
DARC	29015,0	1050	06	04	CIS	Taxi Traffic	F3E	traffic RUS voice, fem. at base station, male in taxi
DARC	29105,0	1050	06	04	CIS	Taxi Traffic	F3E	traffic RUS voice, fem. at base station, male in taxi
DARC	29110,0	1050	06	04	CIS	Taxi Traffic	F3E	traffic RUS voice, fem. at base station, male in taxi
DARC	29120,0	vt	15	04		UiOTHR	FMCW	report DG0JBJ
DARC	29155,0	1050	06	04	CIS	Taxi Traffic	F3E	traffic RUS voice, fem. at base station,

CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	Remarks and Comments
								male in taxi
DARC	29170,0	vt	07	04		UiOTHR	FMCW	report DG0JBJ
DARC	29195,0	1050	06	04	CIS	Taxi Traffic	F3E	traffic RUS voice, fem. at base station, male in taxi
DARC	29220,0	vt	07	04		UiOTHR	FMCW	report DG0JBJ
DARC	29230,0	vt	07	04		UiOTHR	FMCW	report DG0JBJ
DARC	29250,0	vt	07	04		UiOTHR	FMCW	report DG0JBJ
DARC	29260,0	vt	07	04		UiOTHR	FMCW	report DG0JBJ
DARC	29265,0	1050	06	04	CIS	Taxi Traffic	F3E	traffic RUS voice, fem. at base station, male in taxi
DARC	29300,0	vt	10	04		UiOTHR	FMCW	report DG0JBJ
DARC	29500,0	vt	12	04		UiOTHR	FMCW	report DG0JBJ
DARC	29600,0	vt	29	04		UiOTHR	FMCW	report DG0JBJ
DARC	29610,0	vt	07	04		UiOTHR	FMCW	report DG0JBJ
DARC	29650,0	vt	09	04		UiOTHR	FMCW	report DG0JBJ
DARC	29670,0	vt	02	04		UiOTHR	FMCW	report DG0JBJ

DARC 2 – Germany - DK2OM (Wolf)

PSE observe:

FSK transmissions -> center frequency between mark and space

PSK transmissions -> center frequency

ALE (MIL188-141A) -> USB frequency – exclusive bands: black – shared bands: blue

SH = shift --- SP = spread (radar) – SPS = sweeps/sec (radar)

DARC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DARC	1812,0	vt	vd	04	POL		A3E			Polish "PIP" – 10 tones – navigation system - North-Poland – Baltic coast - POL Navy – legal operation
DARC	1876,8	ady	dly	04	G		PSK8	2400	2400	Stanag4285 - 1200 bps long - Scotland
DARC	1881,4	ady	dly	04	F		QPSK	100	100	BC-PSK – Radio Navigation – Nantes - France
DARC	1896,5	ady	dly	04	D		PSK8	2400	2400	Stanag4285 - 600 bps long - German Navy
DARC	3500,0	vt	dly	04	TUR	no ITU	FSK8	125	1750	ALE, "2015" "2016" "1020" "3010"- Turkish Red Crescent - legal
DARC	3500,0	2048	25	04			FMCW			unid – 100 sps
DARC	3502,0	1915	20	04	RUS		PSK2	120	2600	AT3004D - area of Krasnodar
DARC	3503,5	vt	dly	04	G	no ITU	FSK8	125	1750	ALE – "XSS" "XPU" – British MIL Tascomm
DARC	3503,7	2155	22	04	ISR		PSK4	75	2600	MIL-188-10A hybrid modem
DARC	3510,0	vt	dly	04	ALG	no ITU	FSK8	125	1750	ALE, "JE30" "PT30"
DARC	3518,0	1936	06	04						frequency hopper
DARC	3518,0	1848	24	04	RUS		PSK2	120	2600	AT3004D - Kazan
DARC	3527,0	1900	dly	04	RUS		F1B	50	200	Severomorsk - daily
DARC	3532,0	2105	11	04	ALG	no ITU	FSK8	125	1750	ALE, "UN3" "VQ30"
DARC	3532,0	vt	dly	04	ALG		FSK8	125	1750	ALE, "UN30" "DJ35" – Algerian MIL
DARC	3533,0	vt	dly	04	E	no ITU	FSK8	125	1750	ALE, "TYBB1" "TYVC1" "TCS" "TYVV1" - Spanish Guardia Civil
DARC	3533,0	2157	24	04						frequency hopper
DARC	3537,0	1824	06	04	CIS		PSK2	120	2600	AT3004D
DARC	3545,0	vt	dly	04	ALG	no ITU	FSK8	125	1750	ALE, "FL49" "FL57" "PT50" - ALG MIL + voice traffic USB and scrambler
DARC	3546,0	1701	10	04	RUS		PSK2	120	2600	AT3004D – area of Moscow
DARC	3548,0	2030	02	04	RUS		F1B	50	200	Leningrad
DARC	3550,5	1919	18	04	ISR		PSK4	75	2400	MIL-188-10A hybrid modem
DARC	3553,8	ady	dly	04	TUR		PSK8	2400	2400	Stanag4285 – TUR MIL - Ankara
DARC	3558,0	vt	dly	04			FSK8	125	1750	ALE, "102" "206"

DARC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DARC	3567,5	1956	25	04	RUS		PSK2	120	2600	AT3004D - Kaliningrad
DARC	3584,5	vt	dly	04		no ITU	FSK8	125	1750	ALE, “SM5” “HFN”
DARC	3585,0	1700	dly	04	TWN	HLL	F1C			120 rpm, IOC 576, Wxfax - legal!
DARC	3587,0	vt	dly	04	E	no ITU	FSK8	125	1750	ALE, “TVV” “TXX” - Spanish Guardia Civil
DARC	3590,0	vt	dly	04	PAK	no ITU	FSK8	125	1750	ALE, “KW” “ZULFIQUAR1” “KHAIBAR” “SAIF1” “NRS”- Pakistan Navy
DARC	3595,0	vt	dly	04	D	no ITU	FSK8	125	1750	ALE, „ZLST“ „ZPRI“ „ZSHO“ „ZBOR“ „ZEMD“ „ ZHEL“ „ZKNI“ „ZBOR“ „BPLEZS“ German customs – North-Germany
DARC	3596,0	vt	dly	04	HRV	9A0ALE	FSK8	125	1750	Croatian emergency ALE-net --- for info!
DARC	3601,0	vt	vd	04	D	DA0EC	PSK8	2000	2000	RFSM 8000 – amateur emergency net - Berlin - legal operation - just for info!!!
DARC	3601,0	1928	20	04						frequency hopper
DARC	3602,5	vt	dly	04	AUT	OE9XRK	PSK2/4	1800	1800	Pactor4 – Mailbox OE9XRK – just for info!
DARC	3603,0	vt	dly	04	ALG	no ITU	FSK8	125	1750	ALE, “PT01JL94” “JL05JL94”
DARC	3610,0	vt	dly	04	D		PSK8	200	500	German APRS Net in Robust Packet - just for info!
DARC	3617,0	vt	dly	04	HRV	9A5EX	FSK8	125	1750	ALE, “9A5EX1P” – HAM-ALE - just for info
DARC	3622,5	1800	dly	04	J	JMH	F1C			Tokyo Meteo – 120 rpm – IOC576 – daily, legal!!!
DARC	3626,0	vt	dly	04	HRV	9A5EX	FSK8	125	1750	ALE, “9A5EX” – just for info
DARC	3660,0	vt	dly	04	ALG		FSK8	125	1750	ALE, “UN20” XT20” - Algerian MIL
DARC	3699,5	1955	03	04	RUS		F1B	50	200	Kaliningrad
DARC	3751,5	vt	dly	04	POL		FSK8	125	1750	ALE, “LA7” “MI3”
DARC	3756,0	ady	dly	04	UKR		A3E			UKR – pip – 10 tones – navigation system
DARC	3761,5	vt	dly	04	POL	no ITU	FSK8	125	1750	ALE, “NI9” “AB2” – Polish military
DARC	3782,0	ady	dly	04	POR	CTP	F1B	75	850	POR Navy headquarter Lisbon
DARC	7000,0	ady	dly	04	ISR		N0N			carrier 7000.004 kHz – even audible in Australia
DARC	7000,0	1733	07	04	CHN		FMCW		60k	OTHR China – 43.5 sps – 60 kHz wide - 6950 – 7010 kHz
DARC	7000,0	1649	10	04						frequency hopper
DARC	7000,0	1726	28	04	ISR		N0N			carrier + “X” and “V” - +/- 3.5 kHz
DARC	7001,0	0620	17	04	RUS		OFDM	35.6	2700	OFDM60 - Moscow
DARC	7001,8	0740	27	04	TUR		PSK8		2400	ACARS like, but 4 intro tones - Istanbul
DARC	7002,0	1520	29	04						frequency hopper
DARC	7005,5	1550	19	04	UKR		F1B	81	250	system “81-81” - Sevastopol
DARC	7010,0	1844	22	04	CHN		FMCW		30k	Chinese Coastal Radar – 2.6 sps – 7010 – 7040 kHz
DARC	7010,0	1725	28	04	CHN		FMCW		90k	Chinese OTH Radar – 43.5 sps – 6920 – 7010 kHz
DARC	7012,0	1632	29	04			broad			broadband signal - 6092 - 7012 kHz
DARC	7018,0	0948	17	04	RUS		F1B	75	200	Kaliningrad
DARC	7020,0	1439	24	04	RUS		F1B	75	250	Moscow
DARC	7022,0	1737	10	04	RUS		PSK2	120	2600	AT3004D - Kaliningrad
DARC	7032,0	1330	24	04	UKR		PSK2	120	2600	AT3004D – Donetsk
DARC	7038,7	ady	dly	04	UKR	D	A1A			Cluster beacon – Sevastopol RUS Navy – **“RCV”**
DARC	7038,8	ady	dly	04	RUS	P	A1A			Cluster beacon – St. Petersburg RUS Navy – **“RJC66”**
DARC	7038,9	ady	dly	04	RUS	S	A1A			Cluster beacon – Severomorsk RUS Navy – **„RIT“**

DARC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DARC	7039,0	ady	dly	04	RUS	C	A1A			Cluster beacon - Moscow RUS Navy - **"RIW"**
DARC	7039,1	vt	dly	04	KGZ	A	A1A			Cluster beacon – Bishkek RUS Navy – **"RJH25"**
DARC	7039,2	ady	dly	04	RUS	F	A1A			Cluster beacon - Vladivostok RUS Navy - **"RJS"**
DARC	7039,3	vt	dly	04	RUS	K	A1A			Cluster beacon - Petropavlovsk Kamchatskiy - RUS Navy - Pacific fleet - **"RCC"**
DARC	7039,4	1437	03	04	RUS	M	A1A			Cluster beacon – Magadan RUS Navy – **„RTS"**
DARC	7040,5	vt	dly	04	HRV	9A5EX	FSK8	125	1750	ALE, "9A5EX" - just for info!
DARC	7049,5	vt	dly	04	F	F4BXW1	FSK8	125	1750	ALE, "F4BXW1" - just for info!
DARC	7065,0	vt	dly	04	HRV	9A5EX	FSK8	125	1750	ALE, "9A5EX" - just for info!
DARC	7078,0	1955	19	04	RUS		PSK2	120	2600	AT3004D - Kaliningrad
DARC	7080,0	1913	25	04	RUS		F1B	50	200	Kaliningrad
DARC	7089,8	1620	08	04	TUR		PSK8	2400	2400	Link11 - SLEW – aircraft – Turkish coast – area of Anamur
DARC	7099,5	vt	dly	04	HRV	9A0ZG	FSK8	125	1750	ALE, "9A0ZG" - just for info
DARC	7102,0	vt	dly	04	HRV		FSK8	125	1750	ALE, "9A3COL" – just for info!
DARC	7110,5	vt	dly	04	HRV	9A0ALE	FSK8	125	1750	ALE, amateur net, just for info!
DARC	7115,0	2143	30	04	?		FSK8	125	1750	ALE, "RC1" "070707821"
DARC	7126,0	1608	02	04	CHN		FMCW		34k	Chinese Coastal Radar – 2.6 sps – 7126 – 7160 kHz -. also audible in West USA
DARC	7127,0	1010	11	04	CHN		FMCW		32k	Chinese Coastal Radar – 2.6 sps 7127 – 7159 kHz
DARC	7142,0	1335	24	04	RUS		PSK2	120	2600	AT3004D - Penza
DARC	7144,0	1458	24	04	RUS		PSK2	120	2600	AT3004D - Penza
DARC	7155,0	0827	04	04	UKR		PSK2	120	2600	AT3004D - Sevastopol
DARC	7155,0	2149	07	04	CHN		FMCW		10k	OTHR China – 50 sps – bursts of 5.4 sec length
DARC	7157,0	1849	21	04	CHN		FMCW		32k	Chinese Coastal Radar – 2.6 sps – 7157 – 7189 kHz
DARC	7162,0	0950	05	04	RUS		F1B	75	250	Moscow
DARC	7176,0	0955	05	04	RUS		F1B	75	250	Kaliningrad
DARC	7180,0	vt	dly	04	MRC	no ITU	FSK8	125	1750	ALE, "9201" "6350" "RC1"
DARC	7185,5	vt	dly	04	F	F4BXW	FSK8	125	1750	ALE, "F4BXW" - just for info!
DARC	7186,0	0729	07	04	RUS		PSK2	120	2600	AT3004D - Kaliningrad
DARC	10101,0	1053	24	04						frequency hopper
DARC	10106,0	vt	dly	04	ALG	no ITU	FSK8	125	1750	ALE, "OG100A" "OR200B" - Algerian MIL
DARC	10107,0	vt	dly	04			FSK8	125	1750	ALE, "193"
DARC	10110,0	vt	vd	04	SNG		FSK8	125	1750	ALE, "CN6" "68" – Singapore Navy - Changi Naval Base with frigate "RSS Formidable"
DARC	10112,0	ady	dly	04	TUR		PSK8	2400	2400	Stanag4285 – 600 bps long – TUR MIL - Izmir
DARC	10114,8	0659	25	04	RUS		F1B	100	1000	CIS14 - Penza
DARC	10115,0	vt	dly	04		no ITU	FSK8	125	1750	ALE, "2001", "2011" "2005"
DARC	10119,0	1948	23	04						frequency hopper
DARC	10120,0	vt	dly	04		no ITU	FSK2	125	1750	ALE, "9066" "9067"
DARC	10122,8	0806	29	04	G		PSK8	2400	2400	Stanag4285 – 1200 bps long – area of Manchester
DARC	10124,0	0935	19	04						frequency hopper
DARC	10125,0	1357	17	04	CYP		FMCW		20k	OTH Radar Cyprus, 50 sps
DARC	10130,0	vt	dly	04	USA		F1B	50	850	USA - Maine
DARC	10130,0	2000	14	04						frequency hopper
DARC	10130,0	vt	vd	04			FSK8	125	1750	Thales 3000
DARC	10134,0	vt	dly	04	ALG	no ITU	FSK8	125	1750	ALE, "CM4" "COF" - Algerian Airforce
DARC	10136,5	vt	dly	04	F	F4BXW	FSK8	125	1750	ALE, "F4BXW" - just for info!
DARC	10140,0	2104	17	04	CYP		FMCW		20k	OTH Radar Cyprus, 50 sps
DARC	10145,5	vt	dly	04	HRV	9A5EX	FSK8	125	1750	ALE, 9A5EX, just for info!
DARC	10146,0	vt	dly	04	ALG		FSK8	125	1750	ALE, "ORG" "CM4" – ALG Airforce
DARC	10150,0	vt	dly	04		no ITU	FSK8	125	1750	ALE, "CFA" "CTA"

DARC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DARC	14000,0	vt	dly	04	CYP	no ITU	FSK8	125	1750	ALE, “091” “1010”
DARC	14000,0	0705	24	04			N0N		2275	5 carriers – 568 Hz gaps
DARC	14006,0	0756	22	04	RUS		PSK2	120	2600	AT3004D – Velikiye Luki
DARC	14008,0	0950	17	04	RUS		F1B	50	250	Moscow – also: 24.04.12 at 1210 utc
DARC	14016,0	1010	06	04	RUS		PSK2	120	2600	AT3004D - Moscow
DARC	14024,0	1900	28	04	RUS		F1B	75	500	Kaliningrad – RUS Navy
DARC	14026,0	0915	14	04	RUS		PSK2	120	2600	AT3004D – Moscow – RIW
DARC	14026,0	1329	16	04	RUS		PSK2	120	2600	AT3004D - Velikije Luki
DARC	14037,0	vt	dly	04		no ITU	FSK8	125	1750	ALE, “313” “132” “932”
DARC	14052,0	0800	26	04	RUS		PSK2A	120	2600	AT3004D - Vologda
DARC	14053,0	1623	26	04						frequency hopper
DARC	14070,0	2115	27	04						frequency hopper
DARC	14104,0	vt	dly	04	CHN		FSK8	125	1750	ALE, “A98” “L06”
DARC	14109,0	vt	dly	04	F	F4BXW	FSK8	1250	1750	ALE, “F4BXW” - just for info
DARC	14109,0	1454	29	04	INS?		FSK8	125	1750	ALE, “YD0”, probably Indonesia
DARC	14113,0	2142	24	04	FEa		FMCW		10k	unid burst OTHR – 41.7 sps
DARC	14128,0	0809	20	04	RUS		OFDM	29.6	2800	OFDM60 - Moscow – also: 35.6 Bd on 24.04.2012 at 1050 utc
DARC	14142,0	1100	14	04	RUS		F1B	75	250	Krasnoyarsk
DARC	14160,0	0940	11	04	RUS		F1B	75	250	Moscow
DARC	14160,0	0957	17	04	RUS		F1B	50	250	Moscow
DARC	14180,0	0630	26	04	UKR		F1B	50	250	Sevastopol
DARC	14198,6	0737	25	04	RUS		F1B	1200	1200	DPRK-FSK 1200 – KRE emba Moscow
DARC	14203,9	0736	26	04	RUS		OFDM	37.5	2800	OFDM60 – Moscow – traffic and idle
DARC	14220,0	1010	04	04	RUS		F1B	50	500	Moscow
DARC	14222,0	1106	25	04	RUS		PSK2	120	2600	AT3004D – Far East Russia
DARC	14225,0	1552	26	04	CHN		FMCW		10k	Chinese OTH Radar – bursts 66.7 sps – 1.7 sec and 2.8 sec/burst – every 26 sec – hopping 14225 and 14315 - audible at USA West-Coast, Europe and Japan
DARC	14228,0	1120	23	04	RUS		PSK2	120	2600	AT3004D – south of Moscow
DARC	14240,0	1004	11	04	RUS		F1B	75	250	Irkutsk
DARC	14240,0	0959	17	04	RUS		F1B	50	250	Novosibirsk
DARC	14247,0	vt	dly	04	E	no ITU	FSK8	125	1750	ALE, “151” “250”
DARC	14253,0	0745	09	04	RUS		F1B	75	250	Saransk
DARC	14253,0	1040	24	04	RUS		F1B	75	250	Penza
DARC	14265,0	0801	09	04	RUS		PSK2	120	2600	AT3004D - Tver – also: 22.04.12 at 0925 utc
DARC	14294,0	0603	19	04	RUS		PSK2	120	2600	AT3004D -.Velikiye Luki
DARC	14303,0	1627	26	04	CHN		FMCW		10k	Chinese OTH Radar – bursts 48.0 sps – 2.5 sec/burst
DARC	14304,0	1107	14	04	RUS		F1B	75	250	Moscow
DARC	14306,0	0700	25	04	RUS		PSK2	120	2600	AT3004D - Tula
DARC	14315,0	1553	26	04	CHN		FMCW		10k	Chinese OTH Radar – bursts 46.0 sps – 1.7 sec and 2.8 sec/burst – every 26 sec – audible at USA West-Coast, Europe and Japan
DARC	14315,8	0904	18	04	TUR		PSK8	2400	2400	Link11 – SLEW - Ankara
DARC	14316,0	vt	dly	04	?	no ITU	FSK8	125	1750	ALE, “601” “611”
DARC	14325,1	vt	vd	04	FEa	no ITU	FSK8	125	1750	ALE, “776” “699” “475”
DARC	14330,0	0815	20	04			A1A			distorted, 5 kHz wide, encrypted, kyrillic letters
DARC	14331,0	vt	dly	04			FSK8	125	1750	ALE, “417” “663”
DARC	14341,0	vt	dly	04	I		FSK8	125	1750	ALE, “20” - area of Rome
DARC	14343,0	vt	dly	04	CHN	no ITU	FSK8	125	1750	ALE, “L06” “A98”
DARC	14344,7	ady	dly	04	CHN		PSK8	2400	2400	bursts – MIL-188-110A variant
DARC	14348,6	vt	dly	04	KRE		F1B	1200	1200	DPRK-FSK1200 – North Korea – 14348.565 kHz
DARC	14350,0	vt	27	04	TWN		FSK8	125	1750	**ALE-LSB**, “ABJECT, AFFECT, APPLEF” – Taiwanese Navy
DARC	18070,0	1435	16	04	TUR		FMCW		20k	OTH Radar West Turkey – 50 sps
DARC	18075,0	1101	17	04	TUR		FMCW		20k	OTH Radar West Turkey –

DARC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										50 sps
DARC	18096,0	1911	18	04						frequency hopper
DARC	18107,0	vt	vd	04	RUS		F1B	50	200	RUS MIL Moscow - legal operation
DARC	18142,8	0906	17	04	NIG		PSK8	2400	2400	MIL-188-110A variant – 600 bps
DARC	18142,8	0907	17	04	SDN		PSK8	2400	2400	MIL-188-110A variant – 600 bps
DARC	21000,0	0800	25	04		no ITU	FSK8	125	1750	ALE, "ABC"
DARC	21000,0	0718	22	04	TUR		FMCW		20k	OTH Radar Ankara – Turkey – 50 sps
DARC	21001,5	vt	dly	04	RUS		F1B	100	150	vocoder Yakhta inband synchro – Nizhny Tagil
DARC	21010,0	0956	16	04	CYP		FMCW		20k	OTH Radar Cyprus, 50 sps
DARC	21010,0	1518	17	04						frequency hopper
DARC	21020,0	1500	03	04			FMCW		20k	OTH Radar South East Turkey, 50 sps
DARC	21030,0	1106	21	04	CYP		FMCW		20k	OTH Radar Cyprus, 50 sps
DARC	21037,0	0734	30	04	UKR		PSK2	120	2600	AT3004D - Sevastopol
DARC	21089,5	vt	dly	04	HRV	9A5EX	FSK8	125	1750	ALE, "9A5EX" - just for info!
DARC	21096,0	vt	dly	04	POR	CT2GOY	FSK8	125	1750	ALE, "CT2GOY" – just for info
DARC	21100,0	1430	03	04	TUR		FMCW		20k	OTH Radar South East Turkey, 50 sps
DARC	21123,0	0900	19	04	RUS		FSK8	100	1750	Sibiria?
DARC	21130,0	1415	03	04	TUR		FMCW		20k	OTH Radar South East Turkey, 50 sps
DARC	21200,0	1440	03	04	TUR		FMCW		20k	OTH Radar Ankara, 50 sps
DARC	21210,0	0625	26	04	TUR		FMCW		20k	OTH Radar Ankara – Turkey – 50 sps
DARC	21250,0	1420	03	04	TUR		FMCW		20k	OTH Radar Ankara, 50 sps
DARC	21300,0	0718	10	04	TUR		FMCW		20k	OTH Radar West Turkey – 50 sps
DARC	21310,0	0910	08	04	TUR		FMCW		20k	OTH Radar Ankara – Turkey – 50 sps
DARC	21330,0	1440	03	04	TUR		FMCW		20k	OTH Radar South East Turkey, 50 sps
DARC	21330,0	1152	14	04	CYP		FMCW		20k	OTH Radar Cyprus, 50 sps
DARC	21330,0	2021	30	04	CAN		FSK8	125	1750	ALE, "VE3OUV" - just for info
DARC	21350,0	1742	11	04						frequency hopper
DARC	21400,0	0750	06	04	RUS		F1B	50	2000	harmonic from 5350 – area of Jekaterinburg – also: 20.04.2012 at 0840 utc
DARC	21400,0	0811	06	04						frequency hopper
DARC	21409,5	0653	23	04			F1B	100	2000	harmonic from 10704.75
DARC	21438,0	vt	dly	04	UKR	RCV	A1A			RIP90 de RCV - RUS Navy Sevastopol
DARC	21440,8	vt	dly	04	AFG		PSK8	2400	2400	Link11 - SLEW
DARC	21450,0	0846	30	04	CYP		FMCW		20k	OTH Radar Cyprus, 50 sps
DARC	24910,0	0932	22	04	TUR		FMCW		20k	OTH Radar South East Turkey, 50 sps
DARC	24930,0	0900	23	04	TUR		FMCW		20k	OTH Radar South East Turkey, 50 sps – also: 25.04.12 at 1100 utc
DARC	24950,0	0807	28	04	CYP		FMCW		20k	OTH Radar Cyprus, 50 sps
DARC	25000,0	ady	dly	04	FIN		A3E			time signal Helsinki – just for info – carrier on 25000 – dots on 25001
DARC	28025,0	0932	10	04	TUR		FMCW		20k	OTH Radar West Turkey – 50 sps
DARC	28100,4	ady	dly	04	POR		F1B	51	270	F1B – bursts – 3.2 sec
DARC	28100,8	ady	dly	04	POR		F1B	51	270	F1B – bursts – 3.2 sec
DARC	28102,2	ady	dly	04	POR		F1B	51	270	F1B – bursts – 3.2 sec
DARC	28110,0	1145	06	04	TUR		FMCW		20k	OTH Radar South East Turkey, 50 sps
DARC	28152,0	1005	12	04	RUS		PSK2	120	2600	AT3004D – and PSK2 – 1200 Bd, 1200 Hz, Rostov na Donu
DARC	28181,5	1800	dly	04	G		F1B	300	850	F1B bursts – every 60 sec. – Falkland Islands – system

DARC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										Clansman - daily
DARC	28201,5	vt	vd	04	RUS		F1B	100	150	vocoder Yakhta inband synchro and encrypted voice traffic - Ufa
DARC	29000,0	0810	21	04			FMCW		45k	OTH Radar - 307 and 870 sps
DARC	29000,0	1020	22	04			FMCW		50k	OTH Radar - 185, 307, 870 sps
DARC	29320,0	1400	15	04			FMCW		50k	OTH Radar - 111, 185 and 307 sps – bursts of 5.8 sec – every 12 sec

IRTS – Ireland – EI4GXB (Ger)

KARS – Kuwait – 9K2RR (Faisal)

MRASZ – Hungary - HA7PL (Laci)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
MRASZ	3500,0	1910	9	4		Ui	A3E			music
MRASZ	3511,9	1844	12	4			A1A			„993 993 32 32 TTT”
MRASZ	3560,0	1920	9	4		Ui	USB			ui. language
MRASZ	3562,0	1915	9	4			A1A			„0036 0136 2103 2300” 4F
MRASZ	7000,0	1820	27	4			LSB			italian male S9+40 dB
MRASZ	7002,0	1855	29	4			N0N			
MRASZ	7018,0	1735	20	4			F1B		200	
MRASZ	7024,0	1737	17	4			F1B		200	
MRASZ	7032,0	1736	20	4			J7D		200	
MRASZ	7032,0	1720	25	4			J7D		200	
MRASZ	7038,7	1828	27	4	UKR	D	A1A			beacon "D"
MRASZ	7038,7	1850	29	4	UKR	D	A1A			beacon "D"
MRASZ	7038,7	1829	30	4	UKR	D	A1A			beacon "D"
MRASZ	7038,9	1850	29	4	RUS	S	A1A			beacon "S"
MRASZ	7038,9	1829	30	4	RUS	S	A1A			beacon "S"
MRASZ	7039,0	1858	26	4	RUS	C	A1A			beacon "C"
MRASZ	7039,0	1828	27	4	RUS	C	A1A			beacon "C"
MRASZ	7039,0	1829	30	4	RUS	C	A1A			beacon "C"
MRASZ	7041,0	1715	2	4			A1A			„CLBLN 6TT RPT ALL K””
MRASZ	7041,0	1700	3	4			A1A			"AVAY=ZYTT 85K" 'RPT K”
MRASZ	7041,0	1659	3	4			A1A			„AVAY 933 2T 3 2T 5T 933 K”
MRASZ	7041,0	1830	13	4			A1A			„LGED de QHAD K”
MRASZ	7054,0	1849	29	4	RUS		F1B	50	200	
MRASZ	7054,0	1828	30	4	RUS		F1B	50	200	
MRASZ	7080,0	1705	25	4			F1A			5T281 64448 87787 later F1B
MRASZ	7090,0	1703	3	4			FAX			
MRASZ	7110,0	1705	3	4			N0N			
MRASZ	7122,0	1805	30	4			A1A			VVV VVV VVV string
MRASZ	7132,0	1529	13	4			J7D		200	
MRASZ	7137,0	1829	6	4			F1B		200	
MRASZ	7165,0	1755	11	4		UiBC	A3E			music
MRASZ	7170,0	1712	6	4		UiBC	A3E			
MRASZ	7170,0	1715	25	4		UiBC	A3E			
MRASZ	7175,0	1715	3	4		UiBC	A3E			
MRASZ	7180,0	1725	2	4		UiBC	A3E			
MRASZ	7190,0	1730	9	4		UiBC	A3E			
MRASZ	10126,0	1817	27	4		Ui	USB			male unid.language
MRASZ	14008,0	1100	1	4			F1B			just stopped

OEVSV – Austria – OE3GSA (Gerd)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
oevsv	14108	0600	11	04			F1B			
oevsv	14027	0555	16	04			F1B			
oevsv	14018	1940	18	04			USB			male chat
oevsv	14292	0535	19	04			F1B			UA mil
oevsv	10101	0525	24	04			USB			spanish ragchew - male
oevsv	14024	2015	28	04			F1B			UA mil

PZK – Poland – SP3UZ (Wladyslaw)

REP – Portugal – CT4AN (Jose Francisco)

SOC	KHz	UTC	DD	MM	ITU	IDENT	MODE	DETAILS
REP	3505,0	08.02	19	04	E		J3E-U	Fishermen
REP	7035,0	08.40	15	04	E		J3E-U	Fishermen
REP	7038,6	22.05	18	04	RUS	S	A1A	KALININGRAD, ADY, DLY 0.2uV S1
REP	7038,7	21.14	19	04	UKR	D	A1A	SEVASTOPOL, ADY, DLY 0.2uV S1
REP	7038,8	21.40	18	04	RUS	P	A1A	MURMANSK, ADY, DLY 0.2uV S1
REP	7039,0	23.59	19	04	RUS	C	A1A	MOSCOW, ADY, DLY 6.3uV S6
REP	7039,1	21.11	27	04	RUS	A	A1A	VOLGOGRAD, ADY, DLY 6.3uV S6
REP	7039,2	23.45	27	04	RUS	F	A1A	KAMCHATSKY, ADY, DLY 3.1uV S5
REP	7039,3	23.14	16	04	RUS	K	A1A	VOLGOGRAD, ADY, DLY 0.39uV S2
REP	7039,5	22.20	16	04	RUS	M	A1A	MAGADAN, ADY, DLY 3.1uV S5
REP	7040,0	18.30	16	04	n.i.		J3E-U	Females talking about business
REP	7041,0	21.55	16	04	RUS	L	A1A	St. PETERSBURG, ADY, DLY 0.39uV S2
REP	7078,5	23.02	16	04	n.i.		J3E-U	Asiatic fishermen (v. strong signals)
REP	7105,0	22.27	14	04	CHN		8k00 A3EGN	Radio (Chinese) 25uV S8
REP	10107,0	21.03	05	04	n.i.		A3E	Numbers Station - five digits
REP	10110,0	22.38	12	04	n.i.		J3E-L	Talking with no calls
REP	14015,0	09.25	07	04	E		J3E-U	Fishermen
REP	21025,0	09.53	07	04	E		J3E-L	Fishermen
REP	21100,5	10.33	10	04	n.i.		J3E-L	Fishermen
REP	21430,0	09.06	01	04	E		J3E-U	Fisherman talking home
REP	24905,0	16.33	20	04	B		F3E	CB's
REP	28005,0	20.04	22	04	I		A3E	CB's ?
REP	28025,0	09.31	13	04	n.i.		F3E	Taxis or CB's ?
REP	28060,0	09.27	28	04	RUS		F3E	Taxis ?
REP	28070,0	09.24	14	04	RUS		F3E	Taxis
REP	28135,0	17.22	07	04	RUS		F3E	Taxis
REP	28150,0	17.36	07	04	n.i.		F3E	Business discussions
REP	28245,0	15.40	17	04	RUS		F3E	Taxis

RSGB - Great Britain – G4BOH (Chris)

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	REMARKS
RSGB	14295	24H	DLY	04	TAJ	Radio Tajik.	A3	Baldock sent service message.

SRAL – Finland – OH2BLU (Pekka)

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
SRAL	7000,0	h24	*	4	ISR	UiX/K	R3E-u			Days: 1, 2, 4, 8, 9, 20, 28, 29
SRAL	7010,0	1230-1430	3, 4	4		UiMUX	J7D	12x120	12x200	
SRAL	7016,0	0615-1200	4	4		UiPTR	F1B		250	
SRAL	7018,0	0255-1930	*	4	RUS	UiPTR	F1B		200	Days: 17, 20, 21
SRAL	7020,0	0800-1500	9,17, 18	4		UiPTR	F1B		200/250	
SRAL	7022,0	0320-1930	9 –11	4	RUS	UiMUX	J7D	12x120	12x200	Moscow
SRAL	7030,0	0500-1730	*	4		UiPTR	F1B		250	Days: 3, 4, 13, 15
SRAL	7032,0	0230-1930	17-27	4	RUS	UiMUX	J7D	12x120	12x200	
SRAL	7036,0	1830-1836/	9	4		UiPTR	F1B		500	
SRAL	7037,0	0330-1740	3, 5, 10	4		UiMUX	J7D	12x120	12x200	
SRAL	7038,7	h24	dly	4	UKR	D	A1A			Sevastopol
SRAL	7038,9	h24	dly	4	RUS	S	A1A			Severomorsk
SRAL	7039,0	h24	dly	4	RUS	C	A1A			Moscow
SRAL	7041,0	1345-1920	5, 6, 8	4	RUS	AVAY	A1A			procedures
SRAL	7041,0	1345-1920	15, 20	4	RUS	QHAD	A1A			procedures
SRAL	7041,0	1345-1920	22, 28	4	RUS	OMPF	A1A			procedures
SRAL	7045,0	1610	13	4	RUS	RMCW	A1A			MR 5F
SRAL	7054,0	1700-0700	dly	4	RUS	REA4	F1B		200	Moscow
SRAL	7076,0	0930-1400	9,17	4		UiPTR	F1B		200/250	
SRAL	7078,0	0240-1930	*	4		UiMUX	J7D	12x120	12x200	Days: 19, 20, 21, 24
SRAL	7111,0	0840-1100	18, 28	4		UiPTR	F1B		250	
SRAL	7117,0	1530-1930	3	4		UiPTR	F1B			
SRAL	7120,0	0245-0430	dly	4	ERI	VoBME 1	A3E			jammed by ETH, QSY 7100 - 7130 kHz
SRAL	7120,0	1445-1800	dly	4	ERI	VoBME 1	A3E			QSY 7100 – 7130 kHz, jammed by ETH until 1700,
SRAL	7122,0	1200-1600	28, 29	4		UiPTR	F1B		250	
SRAL	7132,0	0600-1200	6	4		UiMUX	J7D	12x120	12x200	
SRAL	7137,0	1500-1910	*	4		UiPTR	F1B		200	
SRAL	7142,0	0530-1300	8,19	4		UiPTR	F1B			
SRAL	7155,0	0400-1930	2-5	4	UKR	UiMUX	J7D	12x120	12x200	Days: 17, 20, 23
SRAL	7160,0	1500-1800	27-30	4	ERI	VoBME 2	A3E			
SRAL	7162,0	0500-1930	*	4	RUS	UiPTR	F1B		250	Days: 1, 3, 4, 13, 15, 23 – 30, Kaliningrad
SRAL	7175,0	0300-0500	dly	4	ERI	VoBME 2	A3E			jammed by ETH, QSY 7160 – 7190 kHz
SRAL	7175,0	1430-1800	dly	4	ERI	VoBME 2	A3E			QSY 7160 –7190 kHz, jammed by ETH until

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
										1700,
SRAL	7176,0	0700-1400	5, 23	4	RUS	UiPTR	F1B		250	
SRAL	7178,0	0300-1930	*	4	RUS	UiMUX	J7D	12x120	12x200	Days: 17, 20, 21
SRAL	7196,0	1245	21	4		UiPTR	F1B			
SRAL	7199,0	0540-1300	2,18	4	RUS	UiMUX	J7D	12x120	12x200	
SRAL	7200,0	0200-0500	dly	4	SDN	R Sudan	A3E			
SRAL	7200,0	1630-1930	dly	4	SDN	R Sudan	A3E			
SRAL	7200,0	1520-1630	1 – 5	4	AFG	R.Afganistan	A3E			
SRAL	7200,0	1530-1830	dly	4	ERI	VoBME 1	A3E			jammed by ETH, QSY +/- 5kHz (or more up?)
SRAL	10130,0	0445	24	4	CYP	UiOTHR	P0N			20 kHz/ 50 Hz
SRAL	14024,0	0430-1215	*	4	RUS	UiPTR	F1B		500	Days: 17, 18, 29, 30
SRAL	14028,0	0645-1300	*	4		UiPTR	F1B		250	Days: 5, 11, 12, 19, 30
SRAL	14192,0	0645-1035	29, 30	4	RUS	UiPTR	F1B		250	
SRAL	14235,0	1820	6	4		UiMUX	J7D	12x120	12x200	
SRAL	14253,0	0630-1410	*	4		UiPTR	F1B		250	Days: 2, 6,15, 23, 24
SRAL	14263,0	0920	7	4		UiPTR	F1B		250	
SRAL	14295,2	0230-1930	dly	4	TJK	R Tojikiston	A3E			3f 4765,08 kHz, Yangiyul TX
SRAL	14306,0	0630-0800	6, 25	4		UiMUX	J7D	12x120	12x200	
SRAL	18070,0	0740	16	4		UiOTHR	P0N			20 kHz/ 50 Hz
SRAL	18100,0	1110-1130	20	4		UiOTHR	P0N			20 kHz/ 50 Hz
SRAL	18107,0	0945-1230	22, 30	4		UiPTR	F1B		200	
SRAL	18165,0	0750	16	4		UiOTHR	P0N			20 kHz/ 50 Hz
SRAL	21001,5	0900-1030	20, 28	4	RUS	UiVocod	F1B		150	
SRAL	21 – 21,450 MHz	0945-1535	*	4		UiOTHR	P0N			Days: 6, 8, 11, 16, 18, 20, 22, 28, 20 kHz/ 50 Hz
SRAL	24930,0	1030-1050/	23	4		UiOTHR	P0N			20 kHz/ 50 Hz
SRAL	28 MHz	0545-1015	*	4	CIS	UiVOX	F3E			Days: 1, 5, 6, 28, 30, 14 reports

USKA – Switzerland – HB9CET (Peter)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	7000.0	2303	08	04			N0N			long lasting carrier often
USKA	7000.0	0908	28	04			N0N		~ 4 kHz	Carrier + sweeping modulation
USKA	7000.0	1539	29	04			N0N ?			Carrier + slowly sweeping modulation (6s)
USKA	7001.9	2237	29	04			?		~ 2k8	unid (carriers with 120Hz spacing); unidentified
USKA	7012.8	1719	11	04			OFDM71	37.5		spacing 44.5Hz
USKA	7015.0	1817	26	04			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D
USKA	7016.0	1439	24	04			F1B	75	250	
USKA	7018.0	0906	17	04			F1B	75	200	often
USKA	7018.0	1649	24	04			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D
USKA	7020.0	1445	24	04			F1B	75	250	

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	7022.0	1400	10	04			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D
USKA	7025.0	2207	01	04			FMCW	22sps	10k	OTHR, Burst Duration 6s
USKA	7032.0	1027	17	04			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D often
USKA	7033.375	1028	17	04			F1B	75	250	
USKA	7037.0	1729	03	04			J7D		2k6	CIS12 idling (13 carriers) often
USKA	7038.7	2055	02	04	UKR	D	A1A			Beacon D Sevastopol daily
USKA	7038.9	2055	02	04	RUS	S	A1A			Beacon S Murmansk daily
USKA	7039.0	2055	02	04	RUS	C	A1A			Beacon C Moscow daily
USKA	7039.2	2102	02	04	RUS	F	A1A			Beacon F Vladivostok daily
USKA	7039.4	2104	02	04	RUS	M	A1A			Beacon M Magadan daily
USKA	7053.9	2053	02	04			A1			illegal jammer (dash/dots)
USKA	7054.0	2052	02	04			F1B	50	200	daily
USKA	7070.0	1936	02	04		244	MFSK8	125	1750	MIL 188-141A daily
USKA	7070.0	0341	03	04		514	MFSK8	125	1750	MIL 188-141A daily
USKA	7070.0	0342	03	04		571	MFSK8	125	1750	MIL 188-141A
USKA	7070.0	2244	24	04		810203	MFSK8	125	1750	MIL 188-141A often
USKA	7070.0	2250	24	04		820202	MFSK8	125	1750	MIL 188-141A often
USKA	7076.0	1026	17	04			F1B	75	250	
USKA	7078.0	1834	19	04			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D often
USKA	7079.0	2051	15	04			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D
USKA	7089.8	1631	07	04			PSK-8	2400	2400	Link 11- SLEW often
USKA	7100.0	1630	04	04			A3E			BC, jammed
USKA	7100.0	1631	04	04			Noise		10 kHz	Jammer
USKA	7105.0	2202	01	04		TWN	A3E			BC (2 stations) daily
USKA	7105.0	2202	01	04		CHN	A3E			BC (2 stations) daily
USKA	7110.0	1615	02	04			A3E			BC, jammed often
USKA	7110.0	1616	02	04			Noise		10 kHz	Jammer often
USKA	7111.0	0850	18	04			F1B	75	250	
USKA	7111.9	2002	24	04		UDAIRI	MFSK8	125	1750	MIL 188-141A, reported as US-Mil in Kuwait daily
USKA	7118.675	1021	17	04		RLJ	F1B	75	250	
USKA	7119.0	1004	07	04			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D
USKA	7120.0	1509	10	04			A3E			BC, jammed often
USKA	7120.0	1510	10	04			Noise		10 kHz	Jammer often
USKA	7135.0	2215	18	04			J7D	12x120	2k6	CIS12 idling only (13 carriers)
USKA	7142.0	1506	10	04			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D
USKA	7144.0	1428	24	04			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D
USKA	7155.0	1039	05	04			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D
USKA	7160.0	1622	30	04			A3E			BC, jammed often
USKA	7160.0	1623	30	04			Noise		10 kHz	Jammer often
USKA	7170.0	2027	10	04			F1B	75	200	
USKA	7175.0	1616	02	04			A3E			BC, jammed almost daily
USKA	7175.0	1617	02	04			Noise		10 kHz	Jammer almost daily
USKA	7176.0	1042	05	04			F1B	75	250	
USKA	7178.0	1014	17	04			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D
USKA	7180.0	1703	10	04			A3E			unid language
USKA	7190.0	1639	04	04			A3E			BC often
USKA	7190.0	1639	04	04			Noise		10 kHz	Jammer often
USKA	7200.0	0221	16	04			A3E			BC, splattering down ~5 Khz
USKA	14000.0	1456	24	04			N0N			long lasting carrier often slightly drifting
USKA	14006.0	1613	22	04			J7D		2k6	CIS12 system, idling
USKA	14008.0	0832	24	04			F1B	50	250	CIS 36-50
USKA	14016.0	1004	06	04			J7D		2k6	CIS12 system, idling
USKA	14018.0	0823	26	04			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D
USKA	14024.0	1437	18	04			F1B	50	500	almost daily
USKA	14026.0	1319	21	04			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D
USKA	14028.0	0733	12	04			F1B	75	250	often
USKA	14034.0	0737	12	04			F1B	50	500	
USKA	14052.0	0758	26	04			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D
USKA	14100.0	2237	15	04			FMCW		48 kHz	OTHR (weak, slow sweep rate)
USKA	14128.0	0827	20	04			OFDM60	35.5	~ 2k7	44.5Hz spacing Pilot at 3300 Hz
USKA	14160.0	0848	12	04			F1B	50	250	
USKA	14180.0	1432	24	04			F1B	50	250	CIS 36-50 often
USKA	14192.0	1040	01	04			F1B	50	500	almost daily
USKA	14192.0	0855	18	04			F1B	50	200	
USKA	14204.0	0802	26	04			OFDM60	30	~ 2k8	spacing 44.5Hz; Pilot at 3300 Hz

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	14226.0	2228	09	04			FMCW	49 sps	10 kHz	OTHR BD 5.4s BRI ~22s
USKA	14240.0	0857	17	04			F1B	50	250	
USKA	14253.0	0909	24	04			F1B	75	250	
USKA	14261.0	0900	24	04			OFDM60		~ 2k8	Pilot at 3300 Hz
USKA	14263.0	0932	09	04			F1B	75	250	
USKA	14303.0	1934	26	04			FMCW	47sps	10k	OTHR; Burst system BD 2.7s, BRI ~23.5s
USKA	14304.0	0839	25	04			F1B	75	250	
USKA	14306.0	0752	25	04			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D
USKA	14315.8	0858	18	04	TUR		PSK-8	2400	2k4	Link 11- SLEW
USKA	14340.0	2301	24	04			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D
USKA	14344.7	2211	11	04			PSK-8	2400	2k4	MIL 188-110A Hybrid mod.
USKA	18070.0	1432	16	04			FMCW	50 sps	20 kHz	OTHR
USKA	18107.0	1231	05	04			F1B	50	200	CIS 36-50 (also F1A) daily
USKA	18122.0	0916	24	04			FMCW	50 sps	20 kHz	OTHR
USKA	21000.0	1205	29	04			USB			Vocoder
USKA	21001.5	0716	12	04			F1B	100	150	
USKA	21045.0	1441	11	04			FMCW	50 sps	20 kHz	OTHR
USKA	21100.0	1423	24	04			FMCW	50 sps	20 kHz	OTHR
USKA	21120.0	0859	28	04			FMCW	50 sps	20 kHz	OTHR
USKA	21170.0	1147	28	04			FMCW	50 sps	20 kHz	OTHR
USKA	21210.0	0618	27	04			FMCW	50 sps	20 kHz	OTHR
USKA	21215.0	1731	30	04			FMCW	50 sps	20 kHz	OTHR
USKA	21240.0	0826	24	04			FMCW	50 sps	20 kHz	OTHR
USKA	21270.0	1502	23	04			FMCW	50 sps	20 kHz	OTHR
USKA	21400.0	0949	06	04			FMCW	50 sps	20 kHz	OTHR
USKA	21424.0	1044	01	04			F1B	50	500	
USKA	21430.0	1409	10	04			FMCW	50 sps	20 kHz	OTHR often
USKA	21430.0	1447	11	04			FMCW	50 sps	20 kHz	OTHR often
USKA	24930.0	1016	23	04			FMCW	50 sps	20 kHz	OTHR
USKA	28000.0	0817	12	04			N0N			long lasting carrier
USKA	28350.0	0928	09	04			FMCW	50 sps	20 kHz	OTHR
USKA	28395.0	1115	10	04			FMCW	50 sps	20 kHz	OTHR
USKA	28570.0	1451	23	04			FMCW	50 sps	20 kHz	OTHR
USKA	28610.0	1410	29	04			FMCW	25 sps	20 kHz	OTHR
USKA	29000.0	1152	15	04			FMCW	307 sps	45 kHz	OTHR, burst system
USKA	29000.0	0938	22	04			FMCW	185 sps 307 sps 870 sps	45 kHz	OTHR with changing sweep rate sweep duration approx 3 or 6s repetition interval approx 3s
USKA	29120.0	1204	15	04			FMCW	50 sps	20 kHz	OTHR
USKA	29175.0	1042	23	04			F3E			Russian
USKA	29320.0	1230	15	04			FMCW	307 sps	45 kHz	OTHR

Veron 1 – Netherlands – PA2GRU (Dick)

SOC	MODE	UTC	DD	MM	ITU	IDENT	MODE	SHIFT	DETAILS
VERON	3536,0	18.15	2	4		UiCW	A1A		5F
VERON	3699,5	18.19	2	4		UiPTR	F1B		Revs
VERON	3699,5	vt	vd	4		UiPtr	F1B	200	hrd on 3 days
VERON	7000,0	19.10	1	4	E	UiILL	J3e-L		Spanish, male voices
VERON	7000,0	17.32	7	4	I	UiILL	J3E-L		Several Italian px; no ham calls
VERON	7018,0	14.12	20	4		UiPTR	F1B		Ptr
VERON	7037,0	17.00	16	4		UiPTR	F1B		Revs
VERON	7038,7	ady	fly	4	UKR	D	A1A		D-beacon
VERON	7038,9	vt	vd	4	RUS	S	A1A		S-beacon
VERON	7038,9	17.24	18	4	RUS	C	A1A		beacon Moscow
VERON	7038,9	17.25	18	4	RUS	S	A1A		beacon, also 26/4
VERON	7039,0	vt	vd	4	RUS	C	A1A		C-beacon
VERON	7039,0	vt	vd	4	RUS	C	A1A		Beacon Moscow; hrd on 7 days
VERON	7039,4	17.25	18	4	OK	OK0EPB	A1A		time signal, legal?also 23/9-17.09 utc
VERON	7041,0	16.00	9	4	CIS	AVAY	A1A		TO 9MMF: 659 22 9 1852 659 = 778 = 5BL
VERON	7041,0	14.19	10	4	CIS	AVAY	A1A		TO 7MT1: 007 .. 10 1854 007 =

SOC	MODE	UTC	DD	MM	ITU	IDENT	MODE	SHIFT	DETAILS
									723 = 5BL
VERON	7041,0	14.35	10	4	CIS	AVAT	A1A		TO GMC3: QTC ZUV K
VERON	7041,0	14.36	18	4	CIS	3CCS	A1A		TO BYLA: QRJ NO QYT6 K
VERON	7041,0	14.42	18	4	CIS	3CCS	A1A		TO BYLA: ZSL ZOU ZOR QYT6 K
VERON	7041,0	14.52	18	4	CIS	3CCS	A1A		TO BYLA: ZWK ZOA ZWG QYT9 K
VERON	7041,00	14.55	18	4	CIS	3CCS	A1A		TO BYLA: ZOV ZOX ZJS QYT6 K
VERON	7041,0	14.58	18	4	CIS	3CCS	A1A		TO BYLA: ZZH ZOP ZJK QYT6 K
VERON	7041,0	18.19	19	4	CIS	QHAD	A1A		TO IFFP: 100 19 2050 100 = 789 = 5BL
VERON	7041,0	14.30	23	4	CIS	OMPF	A1A		To: 2QZK, 8I2B, 9BSA, 1MVZ, LSZA: proc
VERON	7041,0	15.58	23	4	CIS	OMPF	A1A		TO 8I2B: OMPF 725 16 23 1850 725 =
VERON	7041,0	14.30	24	4	CIS	OMPF	A1A		To: 2QZK, 8I2B, 9BSA, 1MVZ, LSZA: proc
VERON	7041,0	14.38	24	4	CIS	OMPF	A1A		To: 1MVZ: QTA 033 K
VERON	7041,0	14.58	24	4	CIS	PPND	A1A		To: 1MVZ: ZSU ZDQ ZLU QYT9 K
VERON	7041,0	14.30	27	4	CIS	OMPF	A1A		To: 2QZK, 8I2B, 9BSA, 1MVZ, LSZA: proc
VERON	7041,0	14.30	28	4	CIS	OMPF	A1A		To: 2QZK, 8I2B, 1MVZ: calls
VERON	7041,0	14.42	28	4	CIS	XWR8	A1A		ZBF ZUJ ZYB K
VERON	7048,0	19.42	14	4					Frequency hopper
VERON	7054,0	vt	vd	4		UiPTR	F1B	200	Revs Russian Airforce
VERON	7098,0	13.13	17	4					Frequency hopper
VERON	7105,0	21.59	7	4	CHN	UiBC	A3E		Chinese px; S6
VERON	7105,0	22.02	20	4	CHN	R.China	A3E		S8
VERON	7105,0	22.02	20	4	TWN	SOH	A3E		S7
VERON	7120,0	17.01	28	4			JAM	16k	White noise jammer
VERON	7130,0	10.48	29	4					Frequency hopper
VERON	7155,0	09.33	8	4					Frequency hopper
VERON	7175,0	16.56	28	4			JAM	16k	White noise jammer
VERON	7178,0	22.23	20	4		UiMux	PSK8	2k4	
VERON	7195,0	13.27	17	4		UiBC	A3E		Distorted music
VERON	7196,0	13.51	21	4		UiPtr	F1B	200	
VERON	7200,0	19.30	14	4	CHN	UiRadar	FMCW	10k	OTHR; 66.7sps
VERON	7200,0	20.36	21	4	CHN	UiRadar	FMCW	10k	OTHR; 66.7sps
VERON	7200,0	19.05	28	4	CHN	UiRadar	FMCW	10k	OTHR; 66.7sps
VERON	10130,0	09.13	17	4		UiPTR	F1B		Ptr
VERON	14008,0	12.55	9	4		UiPtr	F1B	250	Ptr,
VERON	14008,0	09.41	15	4	CIS	UiPTR	F1B		Carrier/Revs/Ptr
VERON	14023,0	08.45	29	4	RUS	UiPtr	F1B	500	Ptr
VERON	14026,00	15.31	16	4		UiMUX	FSK		12 MPSK AT3004D
VERON	14026,0	09.51	22	4	RUS	UiMUX	FSK		12 MPSK AT3004D, till 17.00 utc
VERON	14026,0	13.52	16	4		UiMux	PSK8	2k4	
VERON	14028,0	07.13	12	4		UiCAR	NON		carrier, S-9
VERON	14056,7	09.04	3	4		UiPTR	F1B		ARQ625/Sitor A
VERON	14058,9	08.35	20	4	CIS	DMMU	A1A		TO BUMH: QTC 014 34 20 1130 014 =
VERON	14076,0	09.12	21	4	E	UiILL	J3e-L		Spanish, male voices
VERON	14160,0	09.30	17	4		UiPtr	F1B	250	Ptr,
VERON	14160,0	09.09	17	4		UiPTR	F1B		Ptr
VERON	14162,0	10.18	4	4	RUS	UiMUX	FSK		12 MPSK AT3004D
VERON	14170,0	22.30	20	4					Frequency hopper
VERON	14180,0	10.50	25	4	?	UiPtr	F1B	200	revs/ptr
VERON	14192,0	13.42	1	4	RUS	UiPtr	F1B	500	
VERON	14192,0	08.50	21	4	RUS	UiPtr	F1B	200	Unstable signal (wobbling)
VERON	14192,0	09.17	29	4	RUS	UiPtr	F1B	200	Bad signal
VERON	14202,0	09.10	5	4		UiMUX	FSK		roaring noise
VERON	14221,0	21.07	20	4		UiPtr	F1B	200	Bad filtered
VERON	14226,0	07.38	16	4		UiPtr	F1B	250	Ptr,
VERON	14240,0	09.29	17	4		UiPtr	F1B	250	Ptr,

SOC	MODE	UTC	DD	MM	ITU	IDENT	MODE	SHIFT	DETAILS
VERON	14240,0	09.08	17	4		UiPTR	F1B		Ptr
VERON	14252,0	13.15	13	4	RUS	UiPtr	F1B	250	
VERON	14253,0	07.39	16	4		UiPtr	F1B	250	Ptr,
VERON	14304,0	09.55	25	4		UiPtr	F1B	250	Ptr,
VERON	18082,0	16.02	9	4		UiCAR	NON		carrier, S-9
VERON	18107,0	09.32	15	4		UiPTR	F1B		Revs/Ptr
VERON	18166,0	07.41	16	4		OTHR	FMCW		radar,wide 18153-18175 KHz
VERON	21001,4	14.14	20	4	RUS	UiPTR	F1B	150	Ptr
VERON	21001,5	08.06	3	4	RUS	UiPtr	F1B	150	Yaktha Loc. Jekatrinburg
VERON	21001,5	12.28	25	4	RUS	UiPtr	F1B	150	Yaktha Loc. Jekatrinburg
VERON	21020,0	14.50	3	4		OTHR	FMCW		radar, wide 21007-21030 KHz
VERON	21247,0	10.33	8	4		UiRadar	FMCW	26k	OTHR; 50sps
VERON	21423,8	13.29	1	4		UiPtr	F1B	400	Bad filtered
VERON	24899,0	14.50	28	4					Frequency hopper
VERON	24910,0	11.30	22	4		OTHR	FMCW		radar, wide
VERON	28290,0	13.05	1	4		UiRadar	FMCW	35k	OTHR; 50sps

The monitoring team of IARU Region 1

Many thanks for your interest!

credits:

Wavecom Elektronik – Buelach – Switzerland

SSB-Electronic – Iserlohn – Germany

BAZ – Special Antennas – Bad Bergzabern - Germany

FTS – Funktechnik Seipelt – Hoppegarten - Germany

German PTT (BNetzA = Federal Network Agency)

compiled and published by DK2OM