



International Amateur Radio Union



Region 1

Monitoring System

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The monthly newsletter for Region 1

March 2010

The members of the IARUMS Region 1 Monitoring Team:



Acknowledgements

++ ARI: DH7SA – Salvatore ++ ARSK: 5Z4NU - Ted ++ DARC: DJ9KR - Uli ++ EARA: SU1SA - Sayed
++ IRTS: EI4GXB - Ger ++ KARS: 9K2RR – Faisal ++ MARL: 9H1M – Dominic ++ MRASZ: HA7PL - Laci ++
++ NARS: 5N9AYM – Yusuf ++ OEVSU: OE3DMA – Alex ++ PZK: SP3SUZ – Wladyslaw ++ RAL: OD5RI – Riri ++
++ REP: CT4AN – Jose and CT1JTQ – Angelo ++ RSGB: G4BOH - Chris ++ SARL: ZS1FCS - Fred ++
++ SRAL: OH2BLU - Pekka ++ URE: nn ++ USKA: HB9CET - Peter ++ VERON: PA0GRU - Dick ++ ZRS: S56ZDB - Darko
++ G3VZV – Graham (satellite intrusions) ++ TG9AJR – Juan (Co-ordinator Region 2) ++
++ VK3MV – Peter (Co-ordinator Region 3) ++ DF8FE – Martin (Webmaster assistance) ++ DL8AAM (ALE) ++
++ DJ7KG (BUOYS) ++ DF5SX (BC) ++ DARC (server support) ++ German PTT (BNetzA) ++ IARU Region 1 assistance ++
++ PB2T – Hans (IARU R1 President) ++ G3PSM - Colin (EC-IARU-R1) ++

Part 1: News and infos

Part 2: Detailed reports from the national co-ordinators

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Part 1: News and Infos

1. Family Radio splattering on 21445

Family Radio (USA) is transmitting on 21455 kHz. But I found splatter on 21445 kHz, too. PA0GRU (Dick) and Hams from USA confirmed my observations. A BC transmitter normally transmits with a bandwidth of 9 kHz. But the emissions of Family radio on 21455 kHz have a bandwidth of 20 kHz, carrier +/- 10 kHz. The transmitter seems to be overloaded.

K0BOG, Chuck, informed Family Radio and got the following answer:

"We do carry German on 21455 kHz during the 1800 UTC hour. And since this transmitter is on 24 hours a day, gets tuned to different parameters 8 times a day, by at least three different operators, there is the possibility that PA Grid drive was low or that there was some overdrive somewhere in the audio chain occurring, with resultant splatter.

However, I have been checking the transmitter for splatter on several different frequencies (including 21455 kHz) since I received your message yesterday, and I have not found it to be splattering."

Dear Dick and Chuck, many thanks for your assistance!

2. 10 MHz threatened!

More and more private pirates are abusing our 10 MHz-band! Moroccan fishery, Spanish fishery and Far East pirates. The transmissions are in USB and LSB. We have to observe and stop this illegal traffic as often as possible.

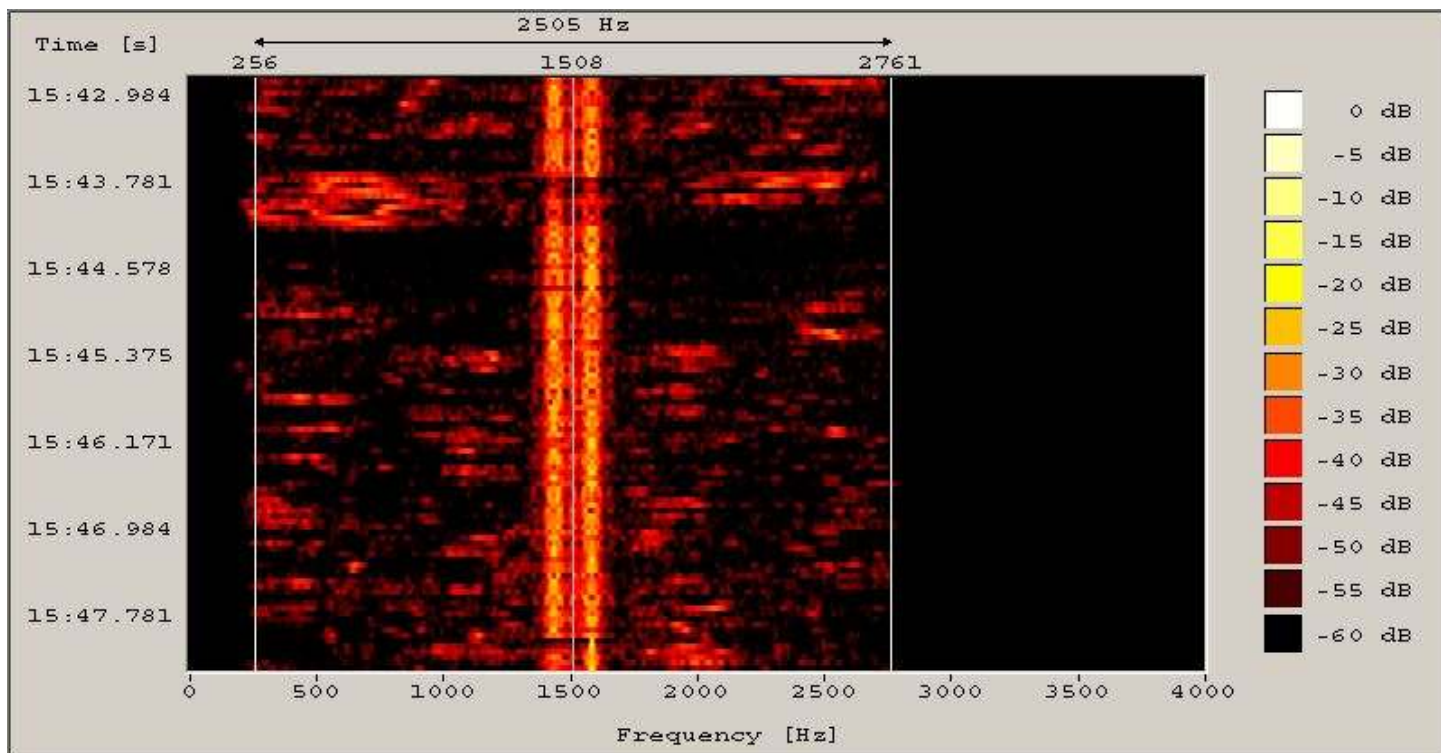
3. Brazilian CBers on 28 MHz

Due to increasing conditions I found Brazilian CBers between 28000 kHz and 28305 kHz in AM on March 17th in the evening hours. I was not surprised and not amused. I sent a complaint to the Brazilian PTT "Anatel" some years ago, but never got any answer.

4. Codar Radar from USA or Canada on 7 MHz

The Codar Radar on 7 MHz was audible several times between 7000 and 7200 kHz with 3 pulses/sec. Normally you can find it around 7800 kHz every evening. The location is the north-east coast of the USA or the eastern coast of Canada. I am waiting for detailed reports from Hams in Region 2.

**Russian MIL vocoder (voice encryption) "Yakhta" on 21001.5 kHz daily, all day. F1B inband synchro signal with 100 Bd and 150 Hz shift. Often only F1B without vocoder.
Location: Jekaterinburg, Russia. Screenshot: DK2OM with Wavecom W61**



5. Homepage IARU Region 1 <http://www.iau-r1.org/>
Homepage IARUMS Region 1 <http://www.iau-r1.org/>
Homepage IARUMS Region 2 <http://www.intruder-watch.org/>
Homepage IARUMS Region 3 <http://www.iau-r3.org/ms/>

Part 2: Detailed reports from the national Co-ordinators

DD = day *** MM = month *** dly = daily *** vt = various times *** vd = various days *** pps = pulses per second (radar systems) *** BD = Baud *** SH = Shift *** Mode = mode of transmission *** A3E = AM *** A1A = CW *** J3E-U = USB *** J3E-L = LSB *** FSK (F1B) = frequency shift keying *** PSK = phase shift keying *** MPSK12 (J7D) = 12 channel phase shift keying *** ALE (MIL-188-141A) = automatic link establishment *** MUX = multiplex *** Ui (uniden) = 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

ARSK MONITORING OVERVIEW FOR March, 2010

I was away at the coast for two weeks with limited facilities, but nothing unusual was observed apart from better reception of Somali stations.

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

ARSK – Kenya – 5Z4NU (Ted)

H'd by	kHz	UTC	dd	mm	ITU	Identity	Mode	Details
ARSK	7010.0	0834	27	3	ZAI	UiPHONE	J3Eu	Vernacular.
ARSK	7012.0	vt	dly	3	SOM	UiPHONE	J3Eu	Somalis.
ARSK	7019.0	0835	27	3	SOM	UiPHONE	J3Eu	Somalis.
ARSK	7022.0	0910	27	3	SOM	UiPHONE	J3E	Somalis.
ARSK	7027.0	0555	31	3	ZAI	uiPHONE	J3Eu	French, vernacular.
ARSK	7045.0	vt	dly	3	SDN	MM, NE, NU, AA, AK, AJ, AL, AT, AO, DU, WL1, WL2, WL4, WL5, WL6, WL9, WL10, BR, WM, NU, MAJ, Ikola? Kabwe, Kalulu	J3E J3Eu	Vernacular, Dholuo? English, phonetics. SelCal. Sudan, NGO, SPLA or SNLA? Sends messages in phonetic five letter groups, probably a single-substitution cypher.
ARSK	7057.0	vt	31	3	SOM	UiPHONE	J3Eu	Somalis.
ARSK	7080.0	0914	27	3	ZAI	UiPHONE	J3E	Vernacular.
ARSK	7085.0	0912	27	3	ZAI	UiPHONE	J3Eu	French, vernacular.
ARSK	7085.0	0711	31	3	SOM	UiPHONE	J3Eu	Somalis.
ARSK	7092.0	vt	*	3	SOM	UiPHONE	J3Eu	Somalis. *12.31,
ARSK	7097.0	0705	31	3	SOM	UiPHONE	J3Eu	Somalis.
ARSK	7110.0	vt	dly	3	ETH	Addis Ababa	A3E	Broadcast, Addis Ababa, Ethiopia
ARSK	7140.0	0601	31	3	SOM	UiPHONE	J3Eu	Somalis.
ARSK	7150.0	0535	29	3	SOM	UiPHONE	J3Eu	Somalis.
ARSK	7150.0	0701	31	3	ZAI	UiPHONE	J3E	French, vernacular.
ARSK	7165.0	vt	dly	3	ETH	Addis Ababa	A3E	Broadcast. Arabic, Amharic.
ARSK	7175.0	vt	dly	3	ERI	VOBM?	A3E	Broadcast.
ARSK	7195.0	vt	dly	3	UGA	Kampala	A3E	Broadcast, Radio Uganda
ARSK	7200.0	vt	dly	3	SDN	Khartoum	A3E	Broadcast in Arabic, Khartoum.

DARC – Germany – Part 1 – DJ9KR (Uli)

PSE observe: **BC (A3E) 7100 – 7200 kHz -> blue**

CLUB	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	REMARKS AND COMMENTS
DARC	3500,0	1936	04	03	E	UiILL	J3E-U		Spanish fishery
DARC	3500,0	1733	07	03	TUR	UiILL	J3E-U		Turkish male persons
DARC	3500,0	1902	08	03	G	UiILL	J3E-U		UK fishery
DARC	3500,0	1935	15	03	TUR	UiILL	J3E-U		Turkish male voices
DARC	3500,0	2145	16	03		UiILL	J3E-U		voice traffic in Arabic
DARC	3500,0	1824	24	03	N.Eu	UiILL	J3E-U		Scandinavians
DARC	3504,0	2146	22	03	HOL	UiILL	J3E-U		Dutch fishery
DARC	3510,0	1933	17	03	TUR	UiILL	J3E-U		Turkish male voices
DARC	3519,0	2141	22	03	G	UiILL	J3E-U		UK fishery
DARC	3520,0	1934	10	02	E	UiBC	J3E-U		Spanish fishery
DARC	3520,0	2035	15	03	RUS	UiILL	J3E-U		net of Russian voice, male and female persons
DARC	3535,0	1825	01	03	G	UiILL	J3E-U		UK fishery
DARC	3535,0	0723	16	03	E	UiILL	J3E-U		2 male persons, Spanish dialect, "de acuerdo", engine noise, so poss. Fishery
DARC	3535,0	0723	16	03	RUS	UiILL	J3E-L		Russian female voice
DARC	3545,0	1620	28	03	F	UiILL	J3E-U		French fishery
DARC	3548,0	1125	14	03	G	UiILL	J3E-U		UK fishery
DARC	3550,0	vt	12	03	F	French Lis Amateurs	A3E		heard F5PQ Paul, F5TV Gerard, F6HSB, F6AAY - just info
DARC	3556,0	2105	26	03	CIS	UiILL	J3E-U		man in Russian voice, encrypted messages
DARC	3560,0	2205	07	03	KRE	V.o.Korea	A3E		daily
DARC	3568,5	2109	09	03	F.Ea	UiILL	J3E-U		French pirates, fishery
DARC	3738,0	1924	01	03	E	UiILL	J3E-U		Spanish fishery, using CRY-2001 vocoder
DARC	7000,0	1747	06	03	F.Ea	UiILL	J3E-U		F.Ea pirates
DARC	7000,0	2202	07	03	ISR	EZI2	J3E-U		female voice
DARC	7000,0	1720	15	03	I	UiILL	J3E-U		2 Italian male persons
DARC	7000,0	1937	19	03	I	UiILL	J3E-L		Italian persons in SSB-LSB
DARC	7000,0	0846	20	03	E	UiILL	J3E-U		Spanish fishery
DARC	7000,9	vt	15	03	I	IW1GD K	J3E-L		OP Giuseppe, Forno, Prov. Torino - heard 1445 - 1446 - says he has only 2 Watts and is making a test
DARC	7026,0	0854	05	03	RUS	UiMUX	PSK2		12 x 120 Bd, AT-3004-D, location Area of Moscow
DARC	7038,4	0929	26	03	CZE	OK0EU	A1A		"beacon": call 2 x at full minute, then carrier for the rest of the minute, S8-9
DARC	7038,7	2131	15	03	UKR	beacon D	A1A		Sevastopol
DARC	7038,8	0606	19	03	RUS	beacon P	A1A		Kaliningrad
DARC	7038,9	0606	19	03	RUS	beacon S	A1A		Murmansk
DARC	7039,0	2131	15	03	RUS	beacon C	A1A		Moscow
DARC	7054,0	0718	12	03	RUS	REA4	F1B		fast reversals
DARC	7082,0	2138	19	03		UiPTR	F1B		unid printer
DARC	7095,5	0854	05	03		UiPTR	F1B		unid printer
DARC	7096,0	2054	23	03		UiMUX	XXX		roaring noise
DARC	7100,0	2000	12	03	KRE	V.o.Korea	A3E		jingle of VOK
DARC	7100,0	2008	12	03	ETH	ETH Govt. Jammer	JAM		white noise jammer
DARC	7100,0	1930	15	03	KRE	V.o.Korea	A3E		En px (1930)
DARC	7100,0	1931	16	03	KRE	V.o.Korea	A3E		En px
DARC	7100,0	2010	24	03	KRE	V.o.Korea	A3E		Korean
DARC	7100,0	1820	25	03	KRE	V.o.Korea	A3E		French px
DARC	7100,0	vt	dly	03	KRE	V.o.Korea	A3E		French px: 1800 - 1900; English px: 1900 - 2000; Korean px: 2000 - 2100

CLUB	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	REMARKS AND COMMENTS
DARC	7100,0	vt	vd	03	KRE	V.o.Korea	A3E		heard 16 17 25 at 1816 - 1834 with px in French voice - report DL1ZG
DARC	7105,0	2200	14	03	CHN	Nei Menggu PBS	A3E		Chinese px with big short echo, another Chinese px is faintly audible
DARC	7105,0	2200	14	03	TWN	Sound of Hope	A3E		Chinese px under CRI
DARC	7105,0	2101	23	03	TUN	RTV Tunisia	A3E		Ar px S9+10dB - intermodulation - 1857 - 2108 - frequencies involved: 7225 and 7345 kHz
DARC	7105,0	2010	24	03	TUN	RTV Tunisia	A3E		carrying px of 7225; S8
DARC	7105,0	vt	05	04	TUN	RTV Tunisia	A3E		is still active with S9-Signal 1926 - 2106, IM 7225 x 7345 ***** 7105 found //
DARC	7105,0	2212	26	03	CHN	Nei Menggu PBS	A3E		Chinese px
DARC	7105,0	2212	26	03	TWN	Sound of Hope (?)	A3E		Chinese px audible under other Chinese px
DARC	7110,0	vt	vd	03	ETH	R. Ethiopia	A3E		daily heard at 0608, 0719, 1534-1552, 1623-1755, 2007-2059 - 23 reports all month
DARC	7114,0	1820	25	03		UiPTR	F1B		unid printer
DARC	7115,0	0731	16	03		UiBC	A3E		weak signal
DARC	7115,0	2105	25	03		UiBC	A3E		weak carrier audible
DARC	7120,0	1755	22	03		UiBC	A3E		very weak carrier
DARC	7122,0	0854	05	03	RUS	Navy Kalinin-grad	F1B		fast reversals
DARC	7123,0	1803	30	03		UiMUX	MPSK 12		RUS MIL - report DL1ZG
DARC	7125,0	2141	15	03	GUI	R. Conakry	A3E		
DARC	7130,0	1747	22	03		UiBC	A3E		weak carrier audible
DARC	7133,0	vt	12	03	RUS	UiMUX	PSK2		AT-3004-D, heard 2002 - 2135 - ship located East Medit. Sea
DARC	7135,0	1727	11	03		UiBC	A3E		weak signal
DARC	7135,0	1950	13	03	CVA	Vatican Radio	A3E		ann: "this is the African Service of Vatican Radio", heard 2000 - 2006 fading out
DARC	7135,0	2144	14	03	CHN	CRI	A3E		carrying the px of 7365 with En px abt. "Santana" and "Michael Jackson", s/off at 2157 - // on 7250 px of CRI in Hungarian
DARC	7135,0	1950	16	03	CVA	Vatican Radio	A3E		s/on px, IM
DARC	7135,0	2149	16	03		UiBC	A3E		
DARC	7135,0	vt	19	03		UiBC	A3E		heard 1822 - 2138
DARC	7135,0	2143	20	03		UiBC	A3E		weak
DARC	7135,0	2128	22	03		UiBC	A3E		tabla (Indian drum) music, En voice
DARC	7135,0	2010	24	03		UiBC	A3E		very weak, only carrier detectable
DARC	7135,0	vt	25	03		UiBC	A3E		weak signal heard 2057 - s/off at 2057
DARC	7140,0	2116	14	03	KRE	V.o.Korea	A3E		very weak
DARC	7140,0	0924	18	03	UZB	UiMUX	FSK8		ALE heard
DARC	7140,0	2105	26	03	RUS	Golos Rossiye	A3E		weak signal, Russian px

CLUB	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	REMARKS AND COMMENTS
DARC	7140,0	vt	dly	03	KRE	V.o.Korea	A3E		Korean px: 0000 - 0100; English px: 0100 - 0200; 0300 - 0400; Korean px: 0700 - 0800; 0900 - 1100; 1200 - 1300; Chinese px: 0800 - 0900
DARC	7141,0	2054	23	03		UiMUX	FSK8		ALE heard
DARC	7142,0	1642	09	03	RUS	UiPTR	F1B		RUS MIL Magnitogorsk
DARC	7145,0	1950	13	03		UiBC	A3E		vy weak signal
DARC	7145,0	2010	24	03		UiBC	A3E		very weak, only carrier detectable
DARC	7160,0	vt	16	03	D	DL3MCL	J3E-L		"hier ist DL3MCL" - heard 1419 - 1453 - call sign is not on official list of BNetzA
DARC	7162,0	1534	12	03	RUS	UiMUX	PSK4		AT-3004-D, location Kaliningrad
DARC	7165,0	vt	11	03	ETH	R. Ethiopia	A3E		heard 1640 - 1726, En px, S9+15dB
DARC	7165,0	1552	21	03	ETH	R. Ethiopia	A3E		English px: 1600 - 1700 French px: 1700 - 1800
DARC	7165,0	1820	25	03	ETH	R. Ethiopia	A3E		HOA music
DARC	7165,0	vt	vd	03	ETH	R. Ethiopia	A3E		0600 - 0700, 1600 - 1900 - 35 reports all month
DARC	7165,0	vt	vd	03	ETH	R. Ethiopia	A3E		HOA px and music heard 16 17 19 30 at 1803 - 1825 - report DL1ZG
DARC	7175,0	1702	05	03	ETH	ETH Govt. Jammer	JAM		white noise jammer
DARC	7175,0	1702	05	03	ERI	V.o.Broad Masses	A3E		slightly audible under jammer
DARC	7175,0	1404	07	03	ERI	V.o.Broad Masses	A3E		HOA music
DARC	7175,0	1950	13	03	ERI	V.o.Broad Masses	A3E		Ar px
DARC	7175,0	1704	15	03	ETH	ETH Govt. Jammer	JAM		white noise jammer
DARC	7175,0	1932	16	03	ERI	V.o.Broad Masses	A3E		Ar px
DARC	7175,0	0606	19	03	ERI	V.o.Broad Masses	A3E		weak
DARC	7175,0	1822	19	03	ERI	V.o.Broad Masses	A3E		Ar px S9+10dB
DARC	7175,0	1623	20	03	ETH	ETH Govt. Jammer	JAM		White Noise jammer
DARC	7175,0	1552	21	03	ERI	V.o.Broad Masses	A3E		HOA music
DARC	7175,0	1717	22	03	ERI	Voice of Broad Masses	A3E		barely audible under WN-jammer
DARC	7175,0	1736	22	03		UiBC	A3E		Ar px S9+10dB
DARC	7175,0	1625	25	03	ERI	V.o.Broad Masses	A3E		under heavy jam
DARC	7175,0	1820	25	03	ERI	V.o.Broad Masses	A3E		Arabic px
DARC	7175,0	0608	26	03	ERI	V.o.Broad Masses	A3E		HOA music
DARC	7175,0	1615	26	03	ERI	V.o.Broad Masses	A3E		barely audible under WN-jammer
DARC	7175,0	vt	vd	03	ERI	V.o.Broad Masses	A3E		HOA px and music heard 06 09 16 17 19 25 30 at 1808 - 1842 - report DL1ZG
DARC	7179,0	2155	18	03	RUS	Golos	A3E		Ru px, church bells

CLUB	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	REMARKS AND COMMENTS
						Rossiye			ringing, S7 - at 2200 ann: "Golos Rossiye" - 2 px audible
DARC	7179,0	2124	19	03	RUS	Golos Rossiye	A3E		IM product Russian px
DARC	7179,0	2059	23	03	RUS	Golos Rossiye	A3E		IM product Ru px
DARC	7179,0	vt	30	03	RUS	Golos Rossiye	A3E		Ru px, 2 px audible, heard 2125 - 2205
DARC	7180,0	vt	07	03	I	Italian Lis Amateurs	A3E		OP Graziano and others, heard 1335 - 1345 in AM
DARC	7180,0	2133	11	03	KRE	V.o.Korea	A3E		Chinese px
DARC	7180,0	2056	13	03	KRE	V.o.Korea	A3E		carrier
DARC	7180,0	2200	14	03	KRE	V.o.Korea	A3E		National Anthem
DARC	7180,0	2125	15	03	KRE	V.o.Korea	A3E		Chinese px
DARC	7180,0	2129	16	03	KRE	V.o.Korea	A3E		fanfares, Chinese px s/on
DARC	7180,0	2200	18	03	KRE	Voice of Korea (North)	A3E		National Anthem (2200), Chinese px
DARC	7180,0	2143	20	03		UiBC	A3E		S9+10dB-signal
DARC	7180,0	2123	22	03	KRE	Voice of Korea (North)	A3E		Chinese px
DARC	7180,0	2101	23	03	KRE	Voice of Korea (North)	A3E		National Anthem, Chinese px
DARC	7180,0	2019	24	03	KRE	V.o.Korea	A3E		weak carrier audible
DARC	7184,0	vt	15	03		UiCAR	N0N		carrier 1708 - 1717 s/off
DARC	7185,0	1717	22	03	CVA	Vatican Radio	A3E		spurious of 7250 En px, S8
DARC	7185,8	vt	01	04	BRM	Myanmar Radio	A3E		heard 1217 - 1233, not // with 5770, 5915 nor 5985,78v - report Ron Howard, Asilomar Beach, CA, USA
DARC	7186,0	0717	25	03	RUS	UiMUX	PSK2		AT-3004-D, location Murmansk
DARC	7186,0	0736	30	03	RUS	UiPTR	F1B		fast reversals
DARC	7190,0	vt	16	03	CLN	Sri Lanka BC	A3E		heard 1226 - 1234, subcontinent singing, choral anthem at sign off - report Ron Howard, Asilomar Beach, CA, USA
DARC	7190,0	1747	22	03		UiBC	A3E		very weak carrier
DARC	7190,0	vt	vd	03	ETH	ETH Govt. Jammer	JAM		rushing noise heard 06 09 16 17 25 at 1819 - 1844 - report DL1ZG
DARC	7195,0	vt	26	03		UiBC	A3E		very weak signal heard 0607 - 0657
DARC	7200,0	1238	01	04	KRE	V.o.Korea	A3E		right on top of R. Rossiye, // 3560 - has left 7140! - report VK7RH
DARC	7200,0	1820	06	03	SDN	Radio Omdurman	A3E		Ar px S9+10dB, 2nd tx-er audible - report DL1ZG
DARC	7200,0	0718	12	03	RUS	Golos Rossiye	A3E		Russian px
DARC	7200,0	1534	12	03	SDN	Radio Omdurman	A3E		HOA music
DARC	7200,0	1950	13	03	SDN	Radio Omdurman	A3E		
DARC	7200,0	2116	14	03	IRN	Islamic Republic of Iran	A3E		Farsi px

CLUB	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	REMARKS AND COMMENTS
						Broad-casting			
DARC	7200,0	1445	15	03	RUS	Golos Rossiye	A3E		Russian px
DARC	7200,0	1445	15	03	SDN	Radio Omdurman	A3E		Arabic px
DARC	7200,0	1935	15	03	SDN	Radio Omdurman	A3E		Ar px
DARC	7200,0	2033	15	03	SDN	Radio Omdurman	A3E		Al-Qur' an recitals and Arabic male
DARC	7200,0	2033	15	03	RUS	Golos Rossiye	A3E		Ru px heard
DARC	7200,0	vt	15	03	IRN	Islamic Republic of Iran Broadcasting	A3E		Spanish px and piano mx, S9+25dB, 2128 s/off
DARC	7200,0	1932	16	03	SDN	Radio Omdurman	A3E		HOA music
DARC	7200,0	1957	16	03	SDN	Radio Omdurman	A3E		Arabic px
DARC	7200,0	2149	16	03	RUS	Golos Rossiye	A3E		Russian px
DARC	7200,0	0822	18	03	RUS	Golos Rossiye	A3E		is Golos Rossiye (= Voice of Russia)
DARC	7200,0	0606	19	03	RUS	Golos Rossiye	A3E		Russian px
DARC	7200,0	1811	19	03		UiBC	A3E		2 tx-er at the same time - report DLIZG
DARC	7200,0	1822	19	03	SDN	Radio Omdurman	A3E		Ar px S9+10dB
DARC	7200,0	2124	19	03	IRN	Islamic Republic of Iran Broadcasting	A3E		Spanish px S9+30dB
DARC	7200,0	2143	20	03	RUS	Golos Rossiye	A3E		Russian px
DARC	7200,0	1552	21	03	RUS	Golos Rossiye	A3E		Russian px S9
DARC	7200,0	1736	22	03	SDN	Radio Omdurman	A3E		HOA music, Ar px
DARC	7200,0	2123	22	03	IRN	Islamic Republic of Iran Broadcasting	A3E		Spanish px // Russian px
DARC	7200,0	2123	22	03	RUS	Golos Rossiye	A3E		Russian px // Spanish px
DARC	7200,0	2059	23	03	IRN	Islamic Republic of Iran Broadcasting	A3E		Sp px
DARC	7200,0	2059	23	03	SDN	Radio Omdurman	A3E		audible under IRIB
DARC	7200,0	2019	24	03	SDN	Radio	A3E		HOA music

CLUB	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	REMARKS AND COMMENTS
						Omdurman			
DARC	7200,0	2019	24	03	SDN	Radio Omdurman	A3E		carrier, then sign on
DARC	7200,0	2030	24	03	IRN	Islamic Republic of Iran Broadcasting	A3E		s/on Spanish px
DARC	7200,0	1820	25	03	SDN	Radio Omdurman	A3E		Arabic px
DARC	7200,0	2048	25	03	IRN	Islamic Republic of Iran Broadcasting	A3E		Spanish px
DARC	7200,0	2048	25	03	SDN	Radio Omdurman	A3E		HOA music
DARC	7200,0	0607	26	03		UiBC	A3E		very weak, only carrier detectable
DARC	7200,0	0608	26	03		UiBC	N0N		carrier 0608 - 0658
DARC	7200,0	vt	vd	03	IRN	Islamic Republic of Iran Broadcasting	A3E		station Ahwaz 1630 - 1730
DARC	7200,0	vt	vd	03	IRN	Islamic Republic of Iran Broadcasting	A3E		station Kamalabad 1830 - 1930
DARC	7200,0	vt	vd	03	TUR	Voice of Turkey	A3E		heard 09 17 at 1855, 1832: splatters German px on 7210 - report DLIZG
DARC	7200,0	1847	25	03	SDN	Radio Omdurman	A3E		Ar px and music
DARC	7200,0	1816	30	03	RUS	Golos Rossiye	A3E		Ru px under heavy splatters from 7210
DARC	10101,0	2004	11	03	E	UiBC	J3E-U		Spanish fishery
DARC	10101,0	0816	12	03	MRC	UiILL	J3E-U		Moroccan fishery
DARC	10101,0	2029	17	03		UiILL	J3E-U		unid language
DARC	10101,0	vt	vd	03	E	UiILL	J3E-U		Spanish voice, heard 09 11 at 2224, 1906
DARC	10103,0	2015	05	03	MRC	UiILL	J3E-U		Moroccan fishery
DARC	10109,0	1731	11	03	S.As	UiILL	J3E-U		S.As male voices
DARC	10109,2	2032	13	03		UiILL	J3E-U		pirate net
DARC	10111,5	2100	18	03		UiILL	J3E-U		unid pirates
DARC	10111,8	1508	11	03		UiILL	J3E-U		unid male voices
DARC	10120,3	1959	13	03		UiILL	J3E-U		Arabic pirate net
DARC	10124,6	0610	26	03	S.As	UiILL	J3E-U		As male voices
DARC	10125,0	0945	20	03	I	UiILL	J3E-U		Italian fishery
DARC	10125,4	2031	24	03		UiILL	J3E-U		2 male voices
DARC	10126,4	1736	11	03		UiILL	J3E-U		unid male voices
DARC	10130,0	1301	12	03	RUS	UiPTR	F1B		fast reversals location Kaliningrad
DARC	10130,0	1653	12	03	E	UiILL	J3E-U		Spanish fishery, Catalan voice
DARC	10130,0	1550	17	03		UiILL	J3E-U		unid male net, Arabic voice, Ops Habib and Mahmut
DARC	10130,0	2013	17	03	KOR	UiILL	J3E-U		Korean ships, fishery
DARC	10131,3	0827	12	03	E	UiILL	J3E-U		Spanish male traffic
DARC	10131,3	vt	12	03	E	UiILL	J3E-U		2 male voices talking about

CLUB	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	REMARKS AND COMMENTS
									"calamar" and "pulpo", heard 0718 - 0734 - is Spanish fishery!
DARC	10131,5	0830	11	03	E	UiILL	J3E-U		Spanish fishery with "Carlos"
DARC	10131,8	1931	13	03	F	UiILL	J3E-U		unid language, location south of Paris (!)
DARC	10131,8	1926	14	03	F.Ea	UiILL	J3E-U		Far East pirates
DARC	10131,8	vt	19	03		UiILL	J3E-U		Chinese or Koran voice, heard 2130 - 2136 soff
DARC	10134,0	2105	01	03	E	UiILL	J3E-U		Spanish pirates
DARC	10135,0	2140	20	03	E	UiILL	J3E-U		Spanish fishery
DARC	10140,0	1931	17	03		UiBC	A3E		BC, Spanish program, spurious?
DARC	10145,0	0937	07	03	G / CYP	British OTH Radar	P0N		is active
DARC	10150,0	2133	11	03		UiILL	J3E-L		unid male voices
DARC	10150,0	2134	15	03		UiILL	J3E-U		Arabic male traffic
DARC	10150,0	1044	22	02	E	UiILL	J3E-U		Spanish fishery
DARC	10150,0	2138	22	03	S.Am?	UiILL	J3E-U		pirates in Spanish voice, South America?
DARC	10180,0	1012	12	03	CHN	Hainan Music Jammer	JAM		just info
DARC	13970,0	vt	14	03	CHN	Hainan Music Jammer	JAM		heard 0836 - 0900 and agn sign on 0905 (after a 5 minutes break) - just info!
DARC	14000,0	1730	01	03	ISR	Alfa Romeo Tango	A3E		female synthetic voice "Alfa Romeo Tango"
DARC	14000,0	vt	06	03	ISR	Papa Charlie Delta	A3E		female synthetic voice, heard 07 09 at 1802, 2013
DARC	14000,0	vt	07	03	ISR	Mossad	J3E-U		SSB-USB plus carrier, heard 1801 - 1817
DARC	14000,0	1834	11	03	Af	UiILL	J3E-U		African pirates
DARC	14000,0	1423	12	03	INS	UiILL	J3E-U		Indonesian pirates
DARC	14000,0	1930	18	03	ISR	Papa Charlie Delta Two	A3E		female synthetic voice
DARC	14000,0	1250	21	03	CHN	Radio Kashi (Kashgar)	A3E		BC-IM from PR China
DARC	14026,0	1038	26	03	RUS	UiMUX	PSK2		system AT-3004-D, location Moscow
DARC	14028,0	0822	25	03	KAZ	UiPTR	F1B	250	location Kazakhstan
DARC	14044,0	0618	26	03		UiMUX	XXX		roaring noise
DARC	14069,0	0838	25	03		UiBC	J3E-L		reproduction of English BC program "Premier Minister Netanjahu"
DARC	14113,0	0924	18	03		UiMUX	XXX		roaring noise
DARC	14120,0	0822	25	03		UiPTR	F1B		fast reversals heard 0822 - 0838
DARC	14135,0	0717	25	03		UiPTR	F1B		unid printer S9+30dB
DARC	14135,0	0822	25	03		UiPTR	F1B		unid printer
DARC	14135,0	1710	25	03		UiPTR	F1B		unid printer
DARC	14169,0	0736	30	03		UiPTR	F1B		S9+20dB-signal heard 0736 - 0802
DARC	14180,0	0837	25	03		UiPTR	F1B		unid printer
DARC	14240,0	0717	25	03		UiPTR	F1B		S9+15dB-signal
DARC	14252,0	0952	16	03		UiMUX	XXX		unid mux
DARC	14253,0	0825	11	03		UiPTR	F1B		unid printer
DARC	14253,0	0618	26	03		UiPTR	F1B		unid printer
DARC	14262,0	0618	26	03		UiMUX	XXX		unid mux

CLUB	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	REMARKS AND COMMENTS
DARC	14285,0	1620	30	03		UiCAR	N0N		long lasting carrier
DARC	14295,0	0825	11	03	TJK	R. Tajikistan	A3E		3rd harmonic of R. Tajikistan, daily heard
DARC	14295,1	vt	vd	03	TJK	R. Tajikistan	A3E		0840 - 0900, S6, is 3f de 4765 - 4765 also sometimes audible
DARC	18165,0	0731	16	03	G / CYP	British OTH Radar	P0N		OTH Radar, 20 kHz spread, very harmful!
DARC	18180,0	0936	31	03	CHN	Hainan Music Jammer	JAM		jammer, just info!
DARC	21000,0	1054	01	03		UiILL	J3E-U		whistling person
DARC	21000,0	1500	19	03	RUS	UiILL	J3E-U		encrypted voice with "YAKHTA"
DARC	21000,2	1130	01	03	F.Ea	UiILL	J3E-U		Far East pirates
DARC	21001,5	1118	23	03	RUS	UiPTR	F1B		printer (YAKHTA synchronisation), location Yekaterinburg
DARC	21020,0	1625	20	03	G / CYP	OTH- Radar	P0N		chirping pulses 15 kHz spread
DARC	21028,9	0726	25	03		UiILL	J3E-U		male voice
DARC	21055,0	1625	20	03	G / CYP	OTH- Radar	P0N		pulses
DARC	21070,0	1349	07	03	G / CYP	British OTH Radar	P0N		pulses
DARC	21095,0	1625	20	03	G / CYP	OTH- Radar	P0N		pulses
DARC	21135,0	1746	01	03	E	UiILL	J3E-U		Spanish fishery, mentioning "barco" and "Miguel"
DARC	21215,0	0849	07	03	G / CYP	British OTH Radar	P0N		is active
DARC	21245,0	1017	06	03	ISR	UiILL	J3E-U		female voice, encrypted messages, no carrier!
DARC	21245,0	vt	06	03	ISR	EZI2 (MOSSA D)	J3E-U		synthetic female voice, heard 0815, 1145, 1301 - 1304, 1333, 1406 - 1421, 1431 - 1443, 1501 - 1503, 1601 - 1604
DARC	21250,0	0610	26	03	G / CYP	British OTH Radar	P0N		chirping pulses 15 kHz spread
DARC	21270,9	vt	25	03		UiILL	J3E-L		LSB, 2 male persons, S.As language, heard 0732 - 0747
DARC	21275,0	0623	07	03	G / CYP	British OTH Radar	P0N		is active
DARC	21410,0	1331	23	03	ARS	SABS Riyadh	A3E		spurious of 21460
DARC	21410,5	0710	19	03		UiPTR	F1B	2000	unid printer, is harmonic
DARC	21411,4	0738	25	03		UiPTR	F1B	2000	unid printer, 2f of 10705,2
DARC	21448,0	1830	24	03	USA	Family Radio	A3E		splattering from 21455!
DARC	28005,0	0849	28	03	CIS	UiILL	F3E		male to female in Russian voice
DARC	28035,0	0911	17	03	CIS	UiILL	F3E		taxi cabs, F3E
DARC	28055,0	0856	28	03	CIS	UiILL	F3E		male to female in Russian voice
DARC	28075,0	0830	17	03	CIS	UiILL	F3E		taxi cabs, F3E
DARC	28095,0	1730	17	03	B	UiILL	A3E		CB-ers
DARC	28125,0	0852	28	03	CIS	UiILL	F3E		male to female in Russian voice
DARC	28135,0	0852	28	03	CIS	UiILL	F3E		male to female in Russian voice

CLUB	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	REMARKS AND COMMENTS
DARC	28175,0	0915	17	03	CIS	UiILL	F3E		taxi cabs, F3E
DARC	28175,0	0847	28	03	CIS	UiILL	F3E		female person in Russian voice
DARC	28215,0	0850	28	03	CIS	UiILL	F3E		male to female in Russian voice
DARC	28235,0	0911	17	03	CIS	UiILL	F3E		taxi cabs, F3E
DARC	28255,0	0859	28	03	CIS	UiILL	F3E		male to female in Russian voice
DARC	28305,0	0833	17	03	CIS	UiILL	F3E		taxi cabs, F3E
DARC	28435,0	0846	28	03	CIS	UiILL	F3E		female person in Russian voice

DARC – Germany – Part 2 – DK2OM (Wolf)

PSE observe:

FSK transmissions -> center frequency between mark and space

PSK transmissions -> center frequency (subtract the modem frequency!)

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

DARC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
DARC	1812,0	1848	dly	03	POL		A3E			Polish “PIP” – 10 tones – North-Poland – Baltic coast - POL Navy ?
DARC	1896,5	ady	dly	03	D		PSK8	2400	2600	Stanag4285 – German Navy – North-Germany
DARC	3500,0	vt	dly	03	TUR	no ITU	FSK8	125	1750	ALE, “1020” “2010” “2015” - Turkish Red Crescent
DARC	3500,0	2036	15	03						frequency hopper
DARC	3503,5	vt	dly	03	G	no ITU	FSK8	125	1750	ALE – “XSS” “XPU” – British MIL Tascomm
DARC	3505,0	2010	27	03						frequency hopper
DARC	3506,0	vt	dly	03	ALG	no ITU	FSK8	125	1750	ALE, “FS40” “GS46” “GS50”
DARC	3515,0	1659	13	03						frequency hopper
DARC	3517,8	2208	07	03	G		PSK8	2400	2600	MIL188-110A - burst system Land’s End - west of Plymouth
DARC	3518,0	2050	01	03	BLR		PSK2	120	2600	AT3004D - Minsk
DARC	3526,8	0724	01	03	POR		PSK4	75	2300	Link11, ship, 500 km south west of Portugal
DARC	3530,2	1818	06	03	F		PSK4	75	2300	Link11 – ship, west of Brest, France
DARC	3532,0	2300	27	03	ALG		FSK8	125	1750	ALE, “VR20” “VR21”
DARC	3533,0	vt	dly	03	E	no ITU	FSK	125	1750	ALE, “TYV” “TWL” - Spanish Guardia Civil
DARC	3546,0	1934	17	03						frequency hopper
DARC	3550,0	vt	dly	03	F	no ITU	FSK8	125	1750	ALE, “DRI” - French MIL
DARC	3550,0	1806	16	03	GEO		PSK2	120	2600	AT3004D - Georgia
DARC	3553,8	ady	dly	03	TUR		PSK8	2400	2600	Stanag4285 – TUR MIL
DARC	3558,0	vt	dly	03	TUR	no ITU	FSK8	125	1750	ALE, “1020” Turkish Red Crescent
DARC	3559,0	1830	23	03	BLR		PSK2	120	2600	AT3004D - Minsk
DARC	3560,0	1800	dly	03	KRE		A3E			Voice of North-Korea – illegal!
DARC	3560,0	2246	24	03						frequency hopper
DARC	3562,0	2250	24	03	RUS		PSK2	120	2600	AT3004D - Moscow
DARC	3566,0	vt	dly	03	E	no ITU	FSK8	125	1750	ALE, “TWL” “TXX” Spanish Guardia Civil
DARC	3576,0	2100 1927	26 28	03	RUS		PSK4	120	2600	AT3104D – west of Moscow
DARC	3577,1	ady	dly	03	I	IZ3DVW	A1A			uncoordinated beacon
DARC	3584,0	1806	06	03						frequency hopper
DARC	3585,0	1700	dly	03	TWN	HLL	F1C			120 rpm, IOC 576, Wxfax
DARC	3586,5	1742 1800	02 06	03	BEL		OFDM	44.5	1800	OFDM27 - west of Brussels

DARC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
DARC	3590,0	vt	dly	03	PAK	no ITU	FSK8	125	1750	ALE, "KW" "TARIQ" – "NRS" - Pakistan Navy - destroyer "Tariq"
DARC	3594,0	vt	dly	03	ALG	no ITU	FSK8	125	1750	ALE, "BT30" "FS30" "WA30"
DARC	3595,0	vt	dly	03	D	no ITU	FSK8	125	1750	ALE – „ZLST“ „ZPRI“ „ZSHO“ „ZBOR“ German customs – North - Germany
DARC	3596,0	vt	dly	03	HRV	9A0ALE	FSK8	125	1750	Croatian emergency ALE-net --- for info!
DARC	3596,0	vt	dly	03	D	DK0ESD	FSK8	125	1750	ALE, "DK0ESD" – interfering the Croatian emergency net
DARC	3602,0	1500	29	03	BLR		F1B	75	250	north of Minsk
DARC	3603,0	vt	vd	03	D	DA0EC	PSK8	2000	2000	RFSM 8000 – amateur emergency net - Berlin - legal operation - just for info!!!
DARC	3606,0	vt	dly	03	ALG	no ITU	FSK8	125	1750	ALE, "FS20" "TP20" "XT2"
DARC	3620,0	2116	31	03	RUS		F1B	50	200	Kaliningrad
DARC	3622,5	1845	22	03	J	JMH	F1C			Tokyo Meteo - 120 rpm - IOC 576 – weather charts
DARC	3716,3	vt	dly	03	CHN	no ITU	FSK8	125	1750	ALE, "140" "3SH"
DARC	3725,0	2215	28	03	E		FSK8	125	1750	ALE, "TWC" "TWVS1" - Spanish Guardia Civil
DARC	3735,0	1700	dly	03	POL		F1B	43	500	idling, South of Warsaw
DARC	3747,5	2106	31	03	ISR		PSK4	75	2700	MIL188-110A hybrid modem
DARC	3756,0	ady	dly	03	UKR		A3E			"The Pip" - 10 tones – UKR - MIL
DARC	3782,0	ady	dly	03	POR	CTP	F1B	75	850	POR Navy headquarter Lisbon
DARC	3794,0	2059	31	03	ALG	no ITU	FSK8	125	1750	ALE, "FS20" - ALG MIL
DARC	3800,0	2024	22	03	MEa		FSK8	125	1750	ALE, "T1Z130" "T28CAB" US MIL
DARC	7000,0	vt	dly	03	IRQ	no ITU	FSK8	125	1750	ALE, "SHDTC" "GUNTC" – US MIL Iraq
DARC	7000,0	vt	dly	03						frequency hopper
DARC	7000,0	vt	dly	03	MEa	no ITU	FSK8	125	1750	ALE, "T1Z130" "T1Z137" "T1Z150" - US MIL
DARC	7000,0	2058	30	03	D	DK0ESD	FSK8	125	1750	ALE, "DK0ESD" – just for info
DARC	7001,5	1811	08	03			PSK4	62.5	1750	Clover 2000 - robust
DARC	7001,6	1435	04	03	ISR		PSK4	75	2700	MIL-188-110A - hybrid modem
DARC	7001,8	1743	31	03			PSK8	2400	2700	MIL188-110A - uniden
DARC	7008,0	vt	dly	03		no ITU	FSK8	125	1750	ALE, "222" "297" "847" "981"
DARC	7010,0	vt	dly	03	GRC	no ITU	FSK8	125	1750	ALE, "RS004A" - NATO NC3A Network
DARC	7011,0	vt	dly	03						frequency hopper
DARC	7011,8	1405	01	03	BIH		PSK8	2400	2600	MIL188-110A – 600/75 bps long Sarajevo - Bosnia-Herzegovina
DARC	7014,0	vt	dly	03	NIG	no ITU	FSK8	125	1750	ALE, "4411" "4412" "4413" Nigerian MOI (police)
DARC	7016,0	0945	18	03	RUS		F1B	75	250	RUS MIL - Kaliningrad
DARC	7020,0	vt	dly	03	GRC	no ITU	FSK8	125	1750	ALE, "BS008C1" "CS004A" - NATO NC3A Network
DARC	7026,0	ady	dly	03	RUS		PSK2	120	2600	AT3004D - area of Moscow daily from 04.03.2010 - 17.03.2010
DARC	7027,0	0852	24	03	RUS		PSK2	120	2600	AT3004D – RUS MIL - Moscow
DARC	7038,7	ady	dly	03	UKR	D	A1A			Cluster beacon – Sevastopol RUS Navy – "RCV"
DARC	7038,8	ady	dly	03	RUS	P	A1A			Cluster beacon – Kaliningrad RUS Navy – "RMP"
DARC	7038,9	ady	dly	03	RUS	S	A1A			Cluster beacon – Murmansk RUS Navy – „RIT“
DARC	7039,0	ady	dly	03	RUS	C	A1A			Cluster beacon - Moscow RUS Navy - "RIW"
DARC	7039,2	ady	dly	03	RUS	F	A1A			Cluster beacon - Vladivostok RUS Navy – "RJS"
DARC	7039,3	1353	01	03	RUS	K	A1A			Cluster beacon - Petropavlovsk

DARC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
										RUS Navy – “RCC”
DARC	7039,9	ady	dly	03	I	IZ3DVW	A1A			IZ3DVW – beacon not coordinated
DARC	7040,5	1637	22	03	D	DK0ESD	FSK8	125	1750	ALE, “DK0ESD” – just for info
DARC	7054,0	1700	dly	03	RUS		F1B	50	200	RUS MIL - Moscow
DARC	7057,0	1311	23	03	RUS		PSK2	120	2600	AT3004D – RUS MIL - Moscow
DARC	7065,0	1733	04	03	RUS		PSK2	120	2600	AT3004D - Murmansk
DARC	7068,0	1456	10	03	RUS		PSK2	120	2600	AT3004D - Kaliningrad
DARC	7070,0	vt	dly	03	CHN	no ITU	FSK8	125	1750	ALE, “288” “514” - PRC-PLA
DARC	7088,9	1410	dly	03	S		A1A			CW training transmission - just for info
DARC	7089,9	1340	dly	03	UKR		F1C			Wxfax – 60 rpm, IOC576, Sevastopol - RUS Naval Base
DARC	7092,0	vt	dly	03	TUR		FSK8	125	1750	ALE, “2010” “2016” - Turkish Red Crescent
DARC	7102,0	vt	dly	03	I	IK2YXT	FSK8	125	1750	ALE, “IK2YXT” - amateur ALE - just for Info
DARC	7102,0	1150	15	03	D	DK0ESD	FSK8	125	1750	ALE, “DK0ESD” - just for info
DARC	7102,0	0120	20	03	RUS		PSK2	120	2600	AT3004D - area of Omsk
DARC	7107,5	1508	01	03	GEO		F1B	40.5	250	system Frost 1 - area of Georgia
DARC	7114,0	1720	25	03	RUS		F1B	50	200	
DARC	7115,0	0130	20	03	USA		P0N			uniden Radar – 3 pps, sounds like Codar, 7115 – 7125, north-east of USA
DARC	7115,0	2110	16	03	IND		noise			wideband white noise - covering 6960 – 7200 kHz – North India
DARC	7116,0	vt	dly	03	CHN	no ITU	FSK8	125	1750	ALE, “1706” “984” “139”
DARC	7122,0	1628 1310	06 23	03	RUS		F1B	50	200	RUS Navy Kaliningrad
DARC	7127,0	2149	12	03	RUS		F1B	76.7	230	RUS MIL - Vologda
DARC	7133,0	2207	12	03	RUS		PSK2	120	2600	AT3004D - ship – East Mediterranean Sea
DARC	7140,0	vt	dly	03	UZB	no ITU	FSK8	125	1750	ALE, “1104” “1708” “1703”
DARC	7141,0	vt	dly	03		no ITU	FSK8	125	1750	ALE, “7852”
DARC	7142,0	1309	23	03	RUS		F1B	75	250	RUS - MIL Magnitogorsk - Ural
DARC	7162,0	0921	12	03	RUS		PSK4	120	2600	AT3104D - Kaliningrad
DARC	7165,0	1620	dly	03	ETH	QRM	A3E			white noise from Radio Ethiopia
DARC	7175,0	1620	dly	03	ETH	QRM	A3E			white noise from Radio Ethiopia
DARC	7185,0	0853	05	03	RUS		PSK2	120	2600	AT3004D - Kaliningrad
DARC	7185,5	1452	20	03	D		FSK8	125	1750	ALE, “DK0ESD” just for info!
DARC	7186,0	1520 0530	13 20	03	RUS		PSK2	120	2600	AT3004D - Murmansk
DARC	7188,0	0818	04	03	RUS		F1B	75	250	RUS Navy - Kaliningrad
DARC	7198,0	1359	31	03	RUS		PSK2	120	2600	AT3004D - Moscow
DARC	10103,0	2136	05	03						frequency hopper
DARC	10107,0	vt	dly	03	RUS		A1A			50 dots/sec - no ident - Novosibirsk
DARC	10110,0	2024	19	03	CYP		P0N			spurious from OTH Radar Cyprus 10220, 50 pps
DARC	10112,0	ady	dly	03	TUR		PSK8	2400	2600	Stanag4285 – 600 bps long - Turkish MIL
DARC	10113,0	0807	05	03	TUN		FSK8	125	1750	ALE, “TU1” “TUD” - Tunisian MOI
DARC	10115,0	0730	dly	03	RUS		FSK4	96	1500	CIS 96 group - Moscow - dly
DARC	10124,0	1302	29	03	ALG		FSK8	125	1750	ALE, “CM1” “CTF” - Algerian Airforce
DARC	10125,0	2200	07	03	CYP		P0N			OTH Radar Cyprus, 50 pps
DARC	10127,4	1944	26	03			PSK8	2400	2600	Stanag4285 -
DARC	10128,0	1942	15	03						frequency hopper
DARC	10130,0	vt	dly	03	RUS		F1B	50	500	RUS MIL - Kaliningrad
DARC	10130,0	vt	dly	03			FSK8	125	1750	Thales Skymaster - uniden
DARC	10130,0	2215	dly	03	USA		F1B	50	850	Maine - USA
DARC	10131,0	1738	21	03						frequency hopper

DARC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
DARC	10131,7	1915	15	03			PSK8	2400	2700	MIL188-110A -
DARC	10136,0	vt	dly	03						frequency hopper
DARC	10136,0	1858	18	03	RUS		F1B	50	200	East-Russia
DARC	10145,0	1240	21	03	CYP		P0N			OTH Radar Cyprus, 50 pps
DARC	10145,5	vt	dly	03		CT1REP	FSK8	125	1750	ALE, Radio Amateurs, just for info!
DARC	10150,0	1814	02	03	CYP		P0N			splatter from OTH Cyprus on 10170, 25 pps
DARC	14000,7	0853	18	03					1200	uniden digital
DARC	14001,0	vt	dly	03	CHN	no ITU	FSK8	125	1750	ALE, "272" China
DARC	14001,1	1650 0814	16 17	03	I		NON			long lasting carrier - Sicily Island
DARC	14005,0	0800	03	03	RUS		PSK2	120	2600	AT3004D - Far East Russia
DARC	14005,0	2038	10	03						frequency hopper
DARC	14008,0	0905 0817	15 17	03	RUS		F1B	50	250	RUS MIL - Moskau
DARC	14008,0	0816 0850	17 24	03	RUS		F1B	50	250	Kaliningrad
DARC	14011,0	1115	14	03	RUS		F1B	75	250	RUS MIL - Kaliningrad
DARC	14014,3	0527	29	03	CHN		PSK4	8 x 75	2200	PRC4+4 - China
DARC	14015,0	1639	07	03	CYP		P0N			splatter from OTH Radar Cyprus on 14950 - 50 pps
DARC	14016,8	0540	28	03	CHN		PSK4	8 x 75	2200	PRC4+4 - West-China
DARC	14018,0	0824	08	03	RUS		PSK4	120	2600	AT3104D - Moscow
DARC	14019,0	1851	05	03						frequency hopper
DARC	14026,0	0918 0545 1023	25 28 29	03	RUS		PSK2	120	2600	AT3004D - Moscow
DARC	14028,0	0821 0826 0921	04 11 25	03	KAZ		F1B	75	250	Kazakhstan
DARC	14030,0	0550	28	03	RUS		PSK2	120	2600	AT3004D - Pensa
DARC	14050,0	0827 1735	05 10	03						frequency hopper
DARC	14052,0	0956 1736 1121 1147 0820	09 10 14 15 17	03	RUS		PSK2	120	5200	harmonic from 7026
DARC	14114,0	1127	18	03	RUS		PSK2	120	2600	AT3004D - area of Uchta
DARC	14120,0	0923 0913	25 30	03	BLR		F1B	75	250	north of Minsk
DARC	14135,0	0831 1630	04 25	03	RUS		F1B	75	250	RUS MIL - Moscow
DARC	14135,0	0940	25	03	RUS		F1B	75	250	Moscow
DARC	14169,0	0914	30	03	RUS		F1B	50	200	RUS MIL - Moscow
DARC	14180,0	1810	24	03	RUS		F1B	50	200	ship, Black Sea
DARC	14181,9	0535	19	03	CHN		PSK4	8 x 75	2200	PRC4 + 4, China
DARC	14196,0	vt	vd	03	RUS		F1B	75	500	RUS Navy - Kaliningrad
DARC	14225,6	0445	16	03	RUS		OFDM	30	2800	OFDM60 - Baikal-Sea
DARC	14295,1	ady	dly	03	TJK		A3E			Radio Tajik - 3 rd from 4765
DARC	14335,0	1512	11	03						frequency hopper
DARC	14335,0	1105 1705	02 30	03	CYP		P0N			50 pps, OTH Cyprus, spurious from 14390
DARC	14346,0	1135	24	03	D	DK0ESD	FSK8	125	1750	ALE, "DK0ESD" - just for info
DARC	14349,0	1101	05	03	CHN		FSK8	125	1750	ALE, "132" "788" "559"
DARC	14350,0	0732	02	03						frequency hopper
DARC	18070,0	0825	21	03						frequency hopper
DARC	18080,0	1112	14	03	CYP		P0N			OTH Radar Cyprus, 50 pps
DARC	18090,0	1013	04	03						frequency hopper
DARC	18090,0	1028	21	03	CYP		P0N			OTH Radar Cyprus, 50 pps spurious from 18030
DARC	18107,0	0837 0810 1507	04 06 11	03 03 03	RUS		F1B	75 50 250	250 250	RUS MIL - Moscow - daily

DARC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
DARC	18160,0	0938 0742	05 27	03			P0N			OTH Radar Cyprus, 50 pps
DARC	18165,0	0956	19	03			P0N			OTH Radar Cyprus, 50 pps
DARC	21000,0	vt	dly	03						frequency hopper
DARC	21000,0	0909	05	03	CYP					splatter from OTH Radar Cyprus on 20950 – 50 pps
DARC	21001,5	ady	dly	03	RUS		F1B	100	150	Yakhta synchro. - Jekaterinburg
DARC	21006,0	0942	27	03						frequency hopper
DARC	21010,0	1545 0800	03 08	03	CYP		P0N			OTH Radar Cyprus, 25 pps
DARC	21012,0	1655	18	03						frequency hopper
DARC	21016,0	1729	19	03						frequency hopper
DARC	21020,0	1430	16	03						frequency hopper
DARC	21028,0	1406	02	03	RUS		PSK4	120	5200	AT3104D – 2 nd fom 10514 kHz (2600 Hz shift) - area of Bering Sea
DARC	21215,0	0849	09	03	CYP		P0N			OTH Radar Cyprus - 50 pps
DARC	21240,0	1512	20	03						frequency hopper
DARC	21270,0	0912	05	03						frequency hopper
DARC	21312,0	1408	16	03						frequency hopper
DARC	21363,0	0913	05	03						frequency hopper
DARC	21420,0	1130	18	03	CYP		P0N			OTH Radar Cyprus, 50 pps
DARC	24902,0	1038	28	03						frequency hopper

IRTS – Ireland – EI4GXB (Ger)

KARS – Kuwait – 9K2RR (Faisal)

MRASZ – Hungary - HA7PL (Laci)

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	DETAILS
MRASZ	3516,5	1808	09	03	PSK8	Ui	UiMUX	2400	0	EADS/TELEFUNKEN RACOMS MAHRS 2400 Bd BURST (SERIAL)
MRASZ	7000,0	VT	VD	03	FSK8 (ALE)	GER	UiMUX	125	1750	ZLST
MRASZ	7000,0	VT	VD	03	FSK8 (ALE)	IRQ	UiMUX	125	1750	TALLIL SOUNDED. IN TALLIL (ظليل) THERE IS AN IRAQI AIRPORT NEAR THE ANCIENT CITY OF UR (30.93675N, 46.089474E) NEWCOMER INTRUDER. WE ARE NOT SO HAPPY...
MRASZ	7000,0	VT	VD	03	FSK8 (ALE)	I	UiMUX	125	1750	USAF SIGONELLA NAVAL AIRFIELD, SICILY(37°24'06"N 14°55'20"E)
MRASZ	7000,0	VT	VD	03	FSK8 (ALE)	IRQ	UiMUX	125	1750	ALKUT (كوت) AIRPORT 32.482029N, 45.757168E. PLEASE SEND COMPLAINT. THIS WAS ONLY SPORAIC RADIO TESTS.
MRASZ	7000,0	VT	VD	03	FSK8 (ALE)	IRQ	UiMUX	125	1750	BASRAH SOUNDED. AIRPORT AT N30.548779, E47.662418 PLEASE SEND COMPLAINT. THIS WAS ONLY SPORAIC RADIO TESTS.
MRASZ	7005,0	VT	VD	03	FSK8 (ALE)	Ui	UiMUX	125	1750	CROSPR SOUNDED. RAF Croughton(AFSCN) Remote Tracking Station USAF
MRASZ	7008,0	VT	VD	03	FSK8 (ALE)	Ui	UiMUX	125	1750	7601 SOUNDED
MRASZ	7010,0	VT	VD	03	FSK8 (ALE)	Ui	UiMUX	125	1750	CS-RS UNID NET

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	DETAILS
MRASZ	7014,0	VT	VD	03	FSK8	NIG	ALE	125	1750	411411 -- 411413 "411" net NIGERIAN POLICE
MRASZ	7020,0	0720	15	03	G7D	RUS	UiMUX	1k44		AT-3004D (MS5 12 TONE MODEM) AT 0722 DISRUPTED AND CW: "rpt k" AND STARTED AGAIN. VERY LOUD. THEN QSU 1 K. SECOND STATION IS MUCH WEAKER. WENT OF AT 0725
MRASZ	7020,0	VT	VD	03	FSK8 (ALE)	Ui	UiMUX	125	1750	CS-RS UNID NET
MRASZ	7024,0	0720	15	03	G7D	RUS	UiMUX	1k44		AT-3004D (MS5 12 TONE MODEM)
MRASZ	7024,0	VT	VD	03	FSK8 (ALE)	Ui	UiMUX	125	1750	7601 SOUNDED
MRASZ	7041,0	VT	VD	03	FSK8 (ALE)	UK	UiMUX	125	1750	UK FOREST MOORE TASCOMM HF HQ. XSS CALLSIGN
MRASZ	7045,0	VT	VD	03	FSK8 (ALE)	Ui	UiMUX	125	1750	1001 SOUNDED
MRASZ	7050,0	VT	VD	03	FSK8 (ALE)	UK	UiMUX	125	1750	UK FOREST MOORE TASCOMM HF HQ. XSS CALLSIGN
MRASZ	7054,0	0606	17	03	FSK2	RUS	UiPTR	50	200	FAST REVERSALS REA4
MRASZ	7055,0	VT	VD	03	FSK8 (ALE)	Ui	UiMUX	125	1750	CROSPR SOUNDED. RAF Croughton(AFSCN) Remote Tracking Station USAF
MRASZ	7055,0	VT	VD	03	FSK8 (ALE)	GER	UiMUX	125	1750	ZLST
MRASZ	7065,0	VT	VD	03	FSK8 (ALE)	Ui	UiMUX	125	1750	
MRASZ	7076,0	VT	VD	03	FSK8 (ALE)	GER	UiMUX	125	1750	USAF SIGONELLA NAVAL AIRFIELD, SICILY(37°24'06"N 14°55'20"E) NEW ACTIVITY.
MRASZ	7076,0	VT	VD	03	FSK8 (ALE)	Ui	UiMUX	125	1750	CROSPR SOUNDED. RAF Croughton(AFSCN) Remote Tracking Station USAF
MRASZ	7080,0	VT	VD	03	FSK8 (ALE)	ALB	UiMUX	125	1750	ALBANIAN MoPO. 5810 SOUNDING
MRASZ	7092,0	VT	VD	03	FSK8 (ALE)	Ui	UiMUX	125	1750	4001, 2001 SUBNETS LOTS OF CALLSIGNS. F001 NET.
MRASZ	7095,0	VT	VD	03	FSK8 (ALE)	UZB	UiMUX	125	1750	110-NET UNID (1101, 1102, 1702, 1703, 1706, 1709) UZBEK FORCES
MRASZ	7096,0	VT	VD	03	FSK8 (ALE)	UK	UiMUX	125	1750	UK FOREST MOORE TASCOMM HF HQ. XSS CALLSIGN
MRASZ	7102,0	VT	VD	03	FSK8 (ALE)	Ui	UiMUX	125	1750	
MRASZ	7107,0	VT	VD	03	FSK8 (ALE)	Ui	UiMUX	125	1750	4378xx-NET (437802, 437805, 437806, 437815, 437817, 437843.
MRASZ	7111,0	VT	VD	03	FSK8 (ALE)	UK	UiMUX	125	1750	UK FOREST MOORE TASCOMM HF HQ. XSS CALLSIGN
MRASZ	7115,0	VT	VD	03	FSK8 (ALE)	Ui	UiMUX	125	1750	9056 SOUNDED
MRASZ	7116,0	VT	VD	03	FSK8 (ALE)	UZB	UiMUX	125	1750	110-NET UNID (1101, 1102, 1702, 1703, 1706, 1709) UZBEK FORCES
MRASZ	7140,0	VT	VD	03	FSK8 (ALE)	Ui	UiMUX	125	1750	110-NET UNID (1101, 1102, 1702, 1703, 1706, 1709) UZBEK FORCES
MRASZ	7149,0	VT	VD	03	FSK8 (ALE)	ALB	UiMUX	125	1750	ALBANIAN MoPO. 5810 SOUNDING
MRASZ	7160,0	VT	VD	03	FSK8 (ALE)	Ui	UiMUX	125	1750	CROSPR SOUNDED. RAF Croughton(AFSCN) Remote Tracking Station USAF
MRASZ	7197,0	VT	VD	03	FSK8 (ALE)	TUR	UiMUX	125	1750	Red Crescent TURKEY 4 FIGURES NET.

OEVSV – Austria – OE3DMA (Alex)

REP – Portugal – CT4AN (Jose Francisco) and CT1JTQ (Angelo)

RSGB - Great Britain – G4BOH (Chris)

SRAL – Finland – OH2BLU (Pekka)

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	REMARKS
SRAL	3699,5	1600-2100	dly	3	RUS	P	A1A			Channelmarker
SRAL	7000,0	2010	12	3		UiVox	J3E-u			
SRAL	7008,0	1800-1930	26	3		UiPTR	F1B/A		250	“QJG”
SRAL	7015,0	1210	1	3	RUS	RLO	A1A			“xxx”
SRAL	7024,0	1230	23	3		UiPTR	F1B		250	
SRAL	7025,0	1330-1430	4	3		UiPTR	F1B			idling
SRAL	7026,0	0430-2000	3-27	3	RUS	UiMUX	J7D	12x120	12x200	Moscow
SRAL	7030,0	0600-0930	4-6, 11	3		UiPTR	F1B		250	
SRAL	7036,0	1550-1937	*	3		UiPTR	F1B		500	Days 8, 15, 26
SRAL	7038,7	h24	dly	3	UKR	D	A1A			Sevastopol
SRAL	7038,8	0600-1830	1-25	3	RUS	P	A1A			Kaliningrad
SRAL	7038,9	h24	dly	3	RUS	S	A1A			Severomorsk
SRAL	7039,0	h24	dly	3	RUS	C	A1A			Moscow
SRAL	7041,0	1430-1830	1,13, 16	3	RUS	LF3T etc.	A1A			procedures
SRAL	7054,0	0500-0800	dly	3	RUS	UiPTR	F1B		200	25 Hz dotter
SRAL	7054,0	1800-2100	dly	3	RUS	UiPTR	F1B		200	25 Hz dotter
SRAL	7054,0	1300-1400	2	3		UiMUX	J7D	12x120	12x200	
SRAL	7068,0	1300-1530	10, 14	3		UiMUX	J7D	12x120	12x200	
SRAL	7080,0	1700-1930	13, 14	3		UiPTR	F1B		200	
SRAL	7100,0	1800-2100	dly	3	KRE	Vo Korea	A3E			
SRAL	7110,0	1500-2100	dly	3	ETH	R Eth.	A3E			
SRAL	7114,0	1620-1940	28-31	3		UiPTR	F1B		200	
SRAL	7118,0	0730-1430	2, 9	3		UiMUX	J7D	12x120	12x200	
SRAL	7118,0	1235	5	3	RUS	3BKI	A1A			“QSA 2”
SRAL	7122,0	0500-2000	dly	3	RUS	RDL	F1B/A		200	MR 5F “xxx”
SRAL	7124,0	0750	24	3		UiPTR	F1B		800	
SRAL	7127,0	0915	3	3		UiPTR	F1B		250	
SRAL	7137,0	1600-1700	27	3		UiPTR	F1B		200	
SRAL	7140,0	1100-1330	dly	3	KRE	Vo Korea	A3E			
SRAL	7140,0	0840-1330	18, 23	3		UiMUX	J7D	12x120	12x200	
SRAL	7142,0	0800-	4,10,	3		UiPTR	F1B		250	

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	REMARKS
		1700	13							
SRAL	7149,0	0630-0815	2	3		UiPTR	F1B		500/800	
SRAL	7162,0	0600-1330	*	3		UiPTR	F1B		250	Days 4, 5, 6, 11, 25. "QRJ QJK"
SRAL	7162,0	0630-1700	12	3		UiMUX	J7D	12x120	12x200	
SRAL	7165,0	1400-1840	dly	3	ETH	R Eth	A3E			Some times jammed
SRAL	7170,0	0420-0540	31	3		UiPTR	F1B		200	
SRAL	7174,0	1310	24	3		UiMUX	J7D	12x120	12x200	
SRAL	7175,0	1400-2005	dly	3	ERI	VoBME	A3E			Some times jammed
SRAL	7176,0	0800-0930	10	3		UiPTR	F1B		250	
SRAL	7185,0	0700-1330	1,10,12	3		UiMUX	J7D	12x120	12x200	
SRAL	7186,0	0530-1730	12-25	3	RUS	UiMUX	J7D	12x120	12x200	Murmansk
SRAL	7188,0	0730-1200	4-20	3		UiPTR	F1B		228	38 Hz dotter. Kaliningrad
SRAL	7196,0	0700-0930	1,10,29	3		UiPTR	F1B		200	
SRAL	7198,0	1400-1430	31	3		UiMUX	J7D	12x120	12x200	
SRAL	7199,0	0730-0830	23,24	3		UiPTR	F1B		250	
SRAL	7200,0	1730-2100	dly	3	SDN	R Sudan	A3E			
SRAL	7200,0	0400-1600	dly	3	RUS	R Rossii	A3E			
SRAL	14016,0	0710-0730	29	3		UiPTR	F1B		500	
SRAL	14028,0	0710-1345	*	3		UiPTR	F1B		250	Days 1, 8, 11, 25, 29.
SRAL	14180,0	0750	24	3		UiPTR	F1B		200	
SRAL	14253,0	0710-0850	22,29	3		UiPTR	F1B		250	
SRAL	14263,0	0710-0800	29	3		UiPTR	F1B		250	
SRAL	14295,1	0500-1630	dly	3	TJK	R Tojikiston	A3E			3f 4765,05 kHz, Yangiyul TX

USKA – Switzerland – HB9CET (Peter)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
USKA	6999.0	2248	31	03			J3E-U			USB, up to ~ 7001.5 kHz
USKA	7000.0	2229	01	03		SHDTC	MFSK8	125	1750	MIL 188-141A, ALE daily
USKA	7000.0	2234	01	03		T3Z158	MFSK8	125	1750	MIL 188-141A, ALE daily
USKA	7000.0	2248	01	03		TALLIL	MFSK8	125	1750	MIL 188-141A, ALE daily
USKA	7000.0	2308	01	03		BASRAH	MFSK8	125	1750	MIL 188-141A, ALE daily
USKA	7000.0	2253	03	03		ALKUT	MFSK8	125	1750	MIL 188-141A, ALE daily
USKA	7000.0	2319	03	03			J3E-U			unid language often
USKA	7000.0	1042	04	03		Names	J3E-U			spanish
USKA	7000.0	0203	07	03		2214	MFSK8	125	1750	MIL 188-141A, ALE
USKA	7000.0	1644	26	03			NON			long-lasting carrier
USKA	7001.8	2235	31	03			PSK-8	2400bps	2600	MIL188-110A; Frame format 2400 bps (Data) short
USKA	7010.0	0712	10	03		RS0011	MFSK8	125	1750	MIL 188-141A, ALE daily
USKA	7010.0	0720	10	03		CS002A	MFSK8	125	1750	MIL 188-141A, ALE daily
USKA	7010.0	0721	10	03		RS004A	MFSK8	125	1750	MIL 188-141A, ALE daily

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
USKA	7010.0	0751	10	03		CS002B	MFSK8	125	1750	MIL 188-141A, ALE daily
USKA	7010.0	0752	10	03		RS0017A	MFSK8	125	1750	MIL 188-141A, ALE daily
USKA	7011.0	1855	04	03			N0N			long-lasting carrier
USKA	7011.8	0842	16	03			PSK-8	2400bps	2600	MIL188-110A; Frame format 2400 bps (Data) long
USKA	7018.625	2223	01	03			N0N			long-lasting carrier
USKA	7020.0			03		RS017D	MFSK8	125	1750	MIL 188-141A, ALE daily
USKA	7020.0	1217	01	03		BS008C1	MFSK8	125	1750	MIL 188-141A, ALE daily
USKA	7020.0	1220	01	03		CS004A	MFSK8	125	1750	MIL 188-141A, ALE daily
USKA	7020.0	1426	04	03		RS013D	MFSK8	125	1750	MIL 188-141A, ALE daily
USKA	7020.0	1225	18	03			F1B	75	250	unid
USKA	7021.8	1226	01	03			PSK-8	2400	2600	MIL188-110A: Frame format 600 bps short
USKA	7021.8	1228	01	03			PSK-8	2400	2600	MIL188-110A; Frame format 2400 bps (Data) long
USKA	7021.8	0758	06	03			PSK-8	2400	2600	MIL188-110A
USKA	7021.8	1231	30	03			PSK-8	2400	2600	MIL188-110A: Frame format 2400 bps (Voice), short
USKA	7021.8	1233	30	03			PSK-8	2400	2600	MIL188-110A: Frame format 2400 bps (Data), short
USKA	7026.0	1831	04	03	BLR		J7D	12x120	2600	PSK2: CIS 12 = AT3004D daily
USKA	7030.0	0721	06	03			F1B	75	250	unid
USKA	7036.0	0004	16	03			F1B	50	500	unid
USKA	7038.7	1218	01	03	UKR	D	A1A			Beacon D Sevastopol daily
USKA	7038.8	1206	01	03	UKR	P	A1A			Beacon P Kaliningrad daily
USKA	7038.9	1207	01	03	RUS	S	A1A			Beacon S Murmansk daily
USKA	7039.0	1208	01	03	RUS	C	A1A			Beacon C Moscow daily
USKA	7039.4	1936	02	03	RUS	M	A1A			Beacon M Magadan
USKA	7043.0	0001	15	03			?	?		mysterious signal daily
USKA	7045.0	2206	02	03			J7D	12x120	2600	PSK2: CIS 12 = AT3004D
USKA	7046.6	1636	01	03			OFDM	50	75	Channel spacing 75 Hz
USKA	7049.0	2341	14	03			F1B	75	250	unid
USKA	7053.0	0851	16	03			J7D	12x120	2600	CIS 12 = AT3004D
USKA	7054.0	2203	01	03			F1B	50	200	unid
USKA	7057.0	1754	24	03			J7D	12x120	2600	CIS 12 = AT3004D
USKA	7065.0	1834	04	03	RUS		J7D	12x120	2600	PSK2: CIS 12 = AT3004D often
USKA	7066.0	1341	11	03			J7D	12x120	2600	PSK2: CIS 12 = AT3004D
USKA	7089.9	1255	31	03	UKR		F1C	60 rpm		Wefax 60rpm IOC 576 daily
USKA	7092.0	2026	08	03		4017	MFSK8	125	1750	MIL 188-141A, ALE daily
USKA	7092.0	2221	08	03		2010	MFSK8	125	1750	MIL 188-141A, ALE daily
USKA	7092.0	2246	08	03		4011	MFSK8	125	1750	MIL 188-141A, ALE daily
USKA	7092.0	0435	09	03		2014	MFSK8	125	1750	MIL 188-141A, ALE daily
USKA	7092.0	0505	09	03		2013	MFSK8	125	1750	MIL 188-141A, ALE daily
USKA	7092.0	0528	09	03		2011	MFSK8	125	1750	MIL 188-141A, ALE daily
USKA	7096.0	2136	23	03			J7D	12x120	2600	PSK2: CIS 12 = AT3004D
USKA	7100.0	1911	02	03			A3E			BC daily
USKA	7101.0	0829	16	03			J7D	12x120	2600	PSK4: CIS 12 = AT3104D
USKA	7100	2136	12	03						very mysterious signal(s) over ~100 kHz
USKA	7105.0	2206	01	03			A3E			BC daily
USKA	7110.0	1538	02	03	ETH		A3E			BC: Radio Ethiopia daily
USKA	7113.9	2028	29	03			N0N			long-lasting carrier
USKA	7114.0	1929	25	03			F1B	50	200	unid often
USKA	7122.0	1215	01	03		RDL	F1B	50	200	unid daily
USKA	7122.0	1917	02	03		RDL	F1A			letters and numbers in groups
USKA	7125.0	2040	30	03			J7D	12x120	2600	CIS 12 = AT3004D, idling
USKA	7127.0	2152	05	03			F1B	75	250	unid
USKA	7133.0	2203	11	03			J7D	12x120	2600	CIS 12 = AT3004D
USKA	7136.9	2219	25	03			N0N			
USKA	7137.0	2211	25	03			F1B	50	200	unid
USKA	7140.0	1758	05	03		1104	MFSK8	125	1750	MIL 188-141A, ALE daily
USKA	7140.0	1759	05	03		1708	MFSK8	125	1750	MIL 188-141A, ALE daily
USKA	7140.0	1807	05	03		1713	MFSK8	125	1750	MIL 188-141A, ALE daily
USKA	7140.0	1814	05	03		1709	MFSK8	125	1750	MIL 188-141A, ALE daily
USKA	7140.0	0057	08	03		1707	MFSK8	125	1750	MIL 188-141A, ALE daily
USKA	7140.0	0058	08	03		1102	MFSK8	125	1750	MIL 188-141A, ALE daily

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
USKA	7140.0	0058	08	03		1105	MFSK8	125	1750	MIL 188-141A, ALE daily
USKA	7140.0	0100	08	03		1703	MFSK8	125	1750	MIL 188-141A, ALE daily
USKA	7140.0	0101	08	03		1706	MFSK8	125	1750	MIL 188-141A, ALE daily
USKA	7140.0	0128	08	03		1101	MFSK8	125	1750	MIL 188-141A, ALE daily
USKA	7140.0	0340	08	03		1711	MFSK8	125	1750	MIL 188-141A, ALE daily
USKA	7142.0	0823	10	03			F1B	75	250	unid often
USKA	7144.0	2133	23	03			J7D	12x120	2600	PSK2: CIS 12 = AT3004D
USKA	7161.875	0725	06	03			A1A			endless V and K only
USKA	7162.0	0724	06	03			F1B	75	250	unid
USKA	7162.0	0913	12	03			J7D	12x120	2600	PSK4: CIS 12 = AT3104D
USKA	7163.265	1201	12	03			A1A			endless dashes/dots or V and K
USKA	7163.9	2208	01	03			N0N			long-lasting carrier
USKA	7165.0	1540	02	03	ETH		A3E			BC: Radio Ethiopia daily
USKA	7175.0	1543	02	03	ERI		A3E			Voice of Broad Masses daily
USKA	7175.0	1603	02	03			Noise			wide Jammer often
USKA	7175.875	0829	10	03			A1A			endless V and K only
USKA	7176.0	0833	10	03			F1B	75	250	unid often
USKA	7176.0	1231	31	03			F1A		250	often "QJC5", letters, numbers
USKA	7180.0	2211	01	03	KRE		A3E			BC: Voice of Korea daily
USKA	7184.0	1241	10	03			J7D	12x120	2600	PSK2: CIS 12 = AT3004D
USKA	7185.0	1549	25	03			A1A			letter "R", or pulses only ?
USKA	7186.0	1617	11	03			J7D	12x120	2600	PSK2: CIS 12 = AT3004D
USKA	7188.0	1101	04	03			F1B	75	250	unid daily
USKA	7190.0	1553	05	03			J7D	12x120	2600	PSK2: CIS 12 = AT3004D
USKA	7195.9	0835	10	03			A1A			endless V and K only
USKA	7196.0	0834	10	03			F1B	75	200	
USKA	7197.3	1823	14	03			A1A			in cw endless "the quick brown fox....." no callsign
USKA	7198.0	1327	31	03			J7D	12x120	2600	PSK2: CIS 12 = AT3004D
USKA	7200.0	1545	02	03	RUS		A3E			BC: Radio Russia daily
USKA	10140.0	2330	20	03			P0N	25pps	20khz	OTHR, from 10140 up, 40ms
USKA	14000.0	1212	01	03			N0N			long-lasting carrier often
USKA	14008.0	1137	17	03			J7D	12x120	2600	PSK2: CIS 12 = AT3004D
USKA	14011.0	1121	14	03			F1B	75	250	unid
USKA	14026.0	1609	28	03			J7D	12x120	2600	PSK2: CIS 12 = AT3004D often
USKA	14028.0	1224	04	03	RUS		F1B	75	250	unid almost daily
USKA	14034.0	0813	10	03			F1B	60.2	500	unid, idling only
USKA	14044.0	1132	30	03	RUS		F1B	75	500	unid
USKA	14080.0	1222	10	03			A1A			dots only
USKA	14113.0	1231	18	03			J7D	12x120	2600	PSK2: CIS 12 = AT3004D
USKA	14135.0	1048	04	03	RUS		F1B	75	250	unid often
USKA	14200.0	1849	04	03			J7D	12x120	2600	CIS 12 = AT3004D
USKA	14216.857	1535	03	03			F1B	125	290	unid
USKA	14239.9	0810	10	03			F1B	75	250	unid
USKA	14242.0	1215	30	03			J7D	12x120	2600	PSK2: CIS 12 = AT3004D
USKA	14253.0	1455	05	03			F1B	75	250	unid almost daily
USKA	14255.0	0908	22	03			J7D	12x120	2600	PSK2: CIS 12 = AT3004D
USKA	14272.0	0759	05	03			F1B	100	250	unid often
USKA	14281.0	1119	11	03			A1A			letters and numbers in groups
USKA	14295.0	1031	11	03			N0N			long-lasting carrier (drifting)
USKA	14304.0	1141	17	03			F1B	75	250	unid
USKA	18070.0	1603	17	03			P0N	50pps	20 kHz	OTHR, from 18070 up
USKA	18094.0	1149	30	03	RUS		F1B	75	500	unid
USKA	18107.0	0833	06	03		RDL	F1B	50	250	CIS 36-50 (BEE; T-600) often
USKA	18107.0	1648	15	03		RDL	F1A	50	250	numbers and letters often
USKA	18107.0	1513	30	03		RDL	F1B	36	250	CIS 36-50 (BEE; T-600)
USKA	21000.0	1226	10	03			P0N	25pps	20 kHz	OTHR from 21000 up
USKA	21001.5	1033	11	03	RUS		F1B	100	150	unid, Jekaterinburg daily
USKA	21001.5	1618	22	03	RUS				~ 2600	Vocoder "Yakhta" often
USKA	21005.0	1511	03	03			P0N	25pps	20 kHz	OTHR, from 21005 up, 40ms
USKA	21025.0	1642	22	03			P0N	50pps	20 kHz	OTHR, from 21040 up, 20ms
USKA	21040.0	1015	15	03			P0N	50pps	20 kHz	OTHR, from 21040 up, 20ms
USKA	21046.0	0828	22	03			F1B	75	500	
USKA	21054.0	1247	18	03			F1B	75	500	
USKA	21054.830	1925	29	03			N0N			long-lasting carrier
USKA	21180.0	0824	22	03			P0N	25pps	20 kHz	OTHR, from 21180 up, 40ms

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
USKA	21245.0	1503	06	03		EZI2	J3E-U			synth. Voice "letters in groups"
USKA	21290.0	1052	11	03			P0N	45pps	10 kHz	Pulses 10 kHz wide
USKA	21320.0	1109	15	03			P0N	50pps	20 kHz	OTHR, from 21320 up, 20ms
USKA	21385.0	1434	05	03			P0N	50pps	20 kHz	OTHR, from 21385 up, 20ms
USKA	21432.0	1501	05	03		Names	J3E-U			unid, short overs

Veron 1 – Netherlands – PA0GRU (Dick)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SHIFT	DETAILS
VERON	3524,0	19.07	19	3		UiPtr	F1B	200	Ptr
VERON	3530,0	05.50	25	3		PIP	A3E		Polish marker MIL
VERON	3735,0	19.11	19	3		UiPtr	F1B	500	Revs
VERON	7000,0	08.44	17	3	Italy	UiILL	j3e-U		Italian, male voices
VERON	7008,0	18.54	26	3		UiPtr	F1B	250	Ptr
VERON	7026,0	08.48	vd	3	Belarus	UiMUX	J7D		12 MPSK AT3004-D 8 days, mni hours
VERON	7038,7	ady	dly	3	UKR	D	A1A		beacon D Sevastopol
VERON	7038,8	ady	dly	3	RUS	P	A1A		beacon P Kaliningrad
VERON	7038,9	ady	dly	3	RUS	S	A1A		beacon S Murmansk
VERON	7039	ady	dly	3	RUS	C	A1A		beacon C Moscow
VERON	7054,0	18.57	vd	3	RUS	UiPtr	F1B	200	20.08 utc, 7 days, Revs
VERON	7080,0	20.33	23	3		UiPtr	F1B	200	Ptr
VERON	7089,0	16.19	18	3		UiCW	A1A		5F
VERON	7096,0	20.10	23	3	RUS	OFDM93		2900	
VERON	7098,0	19.04	21	3		UiCW	A1A		figures groups
VERON	7105,0	18.58	19	3		UiMUX	PSK		Stanag 4285
VERON	7110,0	19.26	15	3	ETH	R.Ethiopia	A3E		also 16/3, speech and music
VERON	7110,0	20.23	23	3	ETH	R.Ethiopia	A3E		music
VERON	7122,4	18.35	25	3	UKR	RDL	A1A		5F Navy
VERON	7122,4	19.00	26	3	UKR	RDL	A1A		5F Navy
VERON	7143,0	20.04	23	3		UiMUX	J7D		12 MPSK AT3004-D
VERON	7175,0	16.21	11	3		UiJAM			jammer on BC, also 22/3
VERON	7175,0	19.28	vd	3	ERI	VBM	A3E		4 days, speech and music
VERON	7195,0	20.27	23	3	ERI	VBM	A3E		speech and music
VERON	14001,0	10.10	16	3	Israel	UiCAR	NON		carrier
VERON	14002,0	11.33	19	3		AB	j3e-U		male, calling Alfa Bravo 2x times
VERON	14017,0	08.58	8	3		UiMUX	J7D		12 MPSK AT3004-D mni hours
VERON	14025,0	14.09	25	3		UiMUX	J7D		07.38 utc, also 26/3 12 MPSK
VERON	14028,0	0.844	vd	3		UiPtr	F1B	250	10.40 utc, Ptr, 4 days
VERON	14135,0	14.11	25	3		UiPtr	F1B		Ptr
VERON	14140,0	09.01	9	3		UiCW	A1A		groups of letters (cyrillic)
VERON	14141,0	20.50	7	3	Mea	UiILL	j3e-U		Arabic, male voices
VERON	14169,0	09.10	24	3		UiPtr	F1B	200	Ptr
VERON	14180,0	08.31	23	3		UiPtr	F1B	250	Ptr
VERON	14240,0	.08.30	23	3		UiPtr	F1B	250	Ptr
VERON	14253,0	08.32	1	3		UiPtr	F1B	250	Ptr,
VERON	14256,0	08.29	23	3		UiPtr	F1B	250	Ptr
VERON	14272,0	09.14	24	3		UiPtr	F1B	200	Ptr
VERON	14304,0	11.40	17	3		UiPtr	F1B	250	Ptr
VERON	14350,0	17.30	20	3	E	UiILL	j3e-U		Spanish, male/female voices
VERON	18070,0	08.31	1	3		UiPtr	F1B		Ptr,
VERON	18162,0	11.39	19	3		OTHR	PON		radar, wide to 18180 KHz
VERON	21000,0	11.59	17	3		UiILL	j3e-U		shouting, male, unknown language
VERON	21001,5	08.32	vd	3	RUS	UiPtr	F1B	150	16.40 utc, 5 days, loc Jekaterineburg
VERON	21046,0	08.33	23	3		UiPtr	F1B	500	Ptr
VERON	21138,0	11.58	23	3		OTHR	PON		radar, wide to 21160 KHz
VERON	21303,0	10.20	7	3	N.Africa	UiILL	j3e-U		N.African language, male voices
VERON	21324,0	11.07	15	3		OTHR	PON		radar, wide

Veron 2 – Netherlands – PA0GRU (Dick)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	DETAILS
VERON	7038,6	15.52	3	3	UKR	D	A1A		Beacon Sevastopol
VERON	7038,7	18.35	18	3	RUS	P	A1A		Beacon Kaliningrad
VERON	7038,7	vt	vd	3	UKR	D	A1A		D-beacon
VERON	7038,8	15.52	3	3	RUS	S	A1A		Beacon Murmansk
VERON	7038,8	18.34	18	3	RUS	S	A1A		Beacon Murmansk
VERON	7038,8	vt	vd	3	RUS	P	A1A		P-beacon
VERON	7038,9	15.52	3	3	RUS	C	A1A		Beacon Moscow
VERON	7038,9	18.34	18	3	RUS	C	A1A		Beacon Moscow
VERON	7038,9	vt	vd	3	RUS	S	A1A		S-beacon
VERON	7039,0	vt	vd	3	RUS	C	A1A		C-beacon
VERON	7040,1	15.49	3	3		UiCar		30	Wobbling carrier; s9+10
VERON	7051,3	15.47	3	3		UiMux	PSK2	2k5	rather weak with deep QSB
VERON	7054,0	22.11	6	3	RUS		F1B	200	Printer
VERON	7054,0	18.31	18	3	RUS	UiPtr	F1B	200	Bad filter
VERON	7054,0	19.00	14	3	CIS	UiPTR	F1B		Revs
VERON	7100,0	18.29	18	3	KRE	VOK	A3E		s5; music & female speech
VERON	7105,0	22.03	6	3		UiBC	A3E		s9; Chinese speech
VERON	7105,0	22.43	7	3	TWN		A3E		s8; Chinese speech
VERON	7105,0	22.43	7	3	CHN		A3E		s8; Chinese speech & music
VERON	7110,0	15.42	3	3	ETH	R.Ethiopia	A3E		s9; E.African speech
VERON	7110,0	17.54	16	3	ETH	R.Ethiopia	A3E		s8; E. African music
VERON	7122,0	17.50	25	3	RUS	RDL	F1A		RDL 96991 21708 (followed by: Revs)
VERON	7122,0	vt	vd	3		UiPTR	F1B		Revs
VERON	7165,0	15.39	3	3	ETH	R.Ethiopia	A3E		s9+10; E.African music
VERON	7165,0	17.50	16	3	ETH	R.Ethiopia	A3E		s7; E. African speech
VERON	7165,0	18.21	18	3	ETH	R.Ethiopia	A3E		s9; E.African music
VERON	7175,0	17.49	16	3	ERI	VBM	A3E		s7; Arabic music
VERON	7175,0	18.19	18	3	ERI	VBM	A3E		s9; speech & music
VERON	7180,0	22.21	7	3		UiBC	A3E		s8; Chinese speech; female
VERON	7185,5	18.17	18	3		UiMux	PSK16	2k6	
VERON	7198,0	15.35	3	3	RUS	UiMux	PSK2	2k6	
VERON	7200,0	18.12	18	3	IRN	VOIRI	A3E		s9
VERON	10112,0	15.32	2	3	TUR	UiMux	PSK8	2k4	Stanag
VERON	10112,0	18.07	18	3	TUR	UiMux	PSK8	2k4	Stanag
VERON	10130,0	vt	vd	3		UiPTR	F1B		Revs/Ptr
VERON	10148,1	18.09	18	3		UiMux	PSK8		
VERON	14008,0	vt	vd	3	CIS	UiPTR	F1B		Carrier/Revs/Ptr
VERON	14028,0	08.46	15	3		UiPTR	F1B		Ptr
VERON	14044,0	09.42	14	3		UiPTR	F1B		Revs
VERON	14097,0	12.45	15	3		UiCW	A1A		Strings of morse
VERON	14098,0	14.24	15	3	I	IZOHCC/B	A1A		Beacon; legal??
VERON	14102,0	14.34	15	3		UiMux	PSK4	2k	2*4 channels
VERON	14110,0	14.35	15	3	CHN		PSK4	2k2	2*4 channels
VERON	14135,0	14.30	25	3		UiPTR	F1B		Ptr
VERON	14216,7	15.23	3	3		UiPtr	F1B	300	Printer
VERON	14253,0	08.45	15	3		UiPTR	F1B		Ptr
VERON	14256,0	11.54	26	3		UiPTR	F1B		Ptr
VERON	14263,0	12.50	15	3	CIS	UiCW	A1A		Strings of Cyrillic morse
VERON	18107,0	vt	vd	3		UiPTR	F1B		Revs/Ptr
VERON	18107,0	12.55	15	3		UiCW	F1A		UUU XXX (followed by: Revs/Ptr)
VERON	18107,0	11.51	16	3	RUS	RDL	F1A		UUU RDL 97026 40948 k
VERON	21019,0	15.32	14	3					Frequency hopper
VERON	21031,0	14.35	2	3		UiRadar	PON		OTHR 50 pps system
VERON	21153,0	15.35	14	3					Frequency hopper
VERON	21190,0	14.39	2	3		UiRadar	PON		OTHR 50 pps system
VERON	21203,0	14.08	7	3					Frequency hopper
VERON	21001.5	11.35	26	3	RUS	UiPTR	F1B		Ptr

Veron 3 – Netherlands – PA0GRU (Dick)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	DETAILS
VERON	7026,0	07.45	10	3	BLR	UiMUX	J7D		3 KHz wide, 12 MPSK carrier 7027.4 KHz
VERON	7026,0	16.05	16	3	BLR	UiMUX	J7D		3 KHz wide, 12 MPSK carrier 7027.4 KHz
VERON	7030,0	06.12	30	3		UiPtr	F1B	250	Ptr
VERON	7036,3	07.22	vd	3		UiMUX	J7D		17.40 utc, 5 days, 12 MPSK
VERON	7038,7	06.15	vd	3	UKR	D	A1A		18.08 utc, 7 days, beacon
VERON	7038,8	07.24	vd	3	RUS	P	A1A		18.08 utc, 5 days, beacon
VERON	7038,9	06.15	vd	3	RUS	S	A1A		18.08 utc, 8 days, beacon
VERON	7039,0	06.15	vd	3	RUS	C	A1A		18.08 utc, 8 days, beacon
VERON	7039,3	16.52	vd	3	RUS	K	A1A		18.08 utc, 2 days, beacon Kamchatka
VERON	7039,4	14.38	15	3	RUS	M	A1A		M-beacon
VERON	7039,4	17.00	31	3	RUS	M	A1A		M-beacon
VERON	7041,0	18.23	3	3		SMAD	A1A		to PYQ0, LU3I, MB6J, IR5J, calls proc
VERON	7041,0	14.31	4	3		SMAD	A1A		to PYQ0, LU3I, MB6J, IR5J, calls proc
VERON	7041,0	15.30	10	3		SMAD	A1A		to MB6J proc, receives traffic
VERON	7041,0	15.36	10	3		SG8I	A1A		to PY80, proc, receives traffic
VERON	7041,0	14.30	12	3		PT2P	A1A		calls, proc, to J8HK, TRTJ, PCM5, CNYE
VERON	7041,0	17.52	14	3		SD6C	A1A		ZSU ZTE ZIN QYT6 K QRJ3 QJGQ qyt6 K
VERON	7041,0	18.09	14	3		PT2P	A1A		to ZTI:qtc 59640 142136
VERON	7041,0	18.19	14	3		PT2P	A1A		to JQHK, TRTJ, PCM5, AOAU, calls, proc
VERON	7041,0	14.30	15	3		PT2P	A1A		to JQHK, TRTJ, PCM5, AOAU, calls, proc
VERON	7041,0	18.11	18	3		XWR8	A1A		XWR8, QTC ZRR AR (many times)
VERON	7041,0	18.15	18	3		PT2P	A1A		PT2P QTC 924 4718 (etc) 5BL
VERON	7041,0	18.19	18	3		PT2P	A1A		to JQHK, TRTJ, PCM5, AOAU, calls, proc
VERON	7041,0	13.30	28	3		NRD5	A1A		to 5NQH, E.D9, WEW1, DKSM, proc
VERON	7041,0	13.33	28	3		NRD5	A1A		to LH6A, ZOF ZXG ZWM QYT9 K
VERON	7041,0	17.07	31	3		NRD5	A1A		to 5NQH, QTC, 749 4631 2046 749 (5BL)
VERON	7054,0	07.20	vd	3	RUS	UiPtr	F1B	250	20.35 utc, Revs, Airforce, 5 days
VERON	7100,0	18.15	3	3		UiBC	A3E		unknowm speech
VERON	7114,5	07.36	10	3		UiPtr	F1B	250	slow Revs, Ptr
VERON	7122,0	06.17	vd	3	RUS	RDL	F1A	250	16.23 utc, xxx xxx xxx morse, 3 days
VERON	7122,0	06.18	vd	3	RUS	RDL	F1B	250	16.48 utc, 8 days, Revs/Ptr
VERON	7122,0	16.28	3	3	RUS	RDL	F1A	250	RDL 21809 17860/etc 5F
VERON	7122	10.00	6	3	RUS	RDL	F1B	250	Ptr/Revs
VERON	7122,0	08.12	10	3	RUS	RDL	F1A		RDL 56916 54389)many times' K
VERON	7122,0	08.31	12	3	RUS	RDL	F1A	F1A	5F, followed by Revs (F1B)
VERON	7122,0	10.00	6	3	RUS	RDL	F1A		RDL 00804 18640 K XXX
VERON	7122,0	12.15	24	3	RUS	RDL	F1A	250	XXX (3x) RDL 77618 40459 GUQINA 7142
VERON	7122,0	13.49	28	3	RUS	RDL	F1A		RDL 58178 07906 (many times)
VERON	7122,0	13.51	28	3	RUS	RDL	F1A	250	XXX XXX (morse) followed by Ptr
VERON	7165,0	18.10	3	3	ETH	R.Ethiopia	A3E		speech
VERON	7175,0	18.03	3	3	ERI	VBM	A3E		music
VERON	7199,0	08.05	24	3		UiPtr	F1B	250	Ptr
VERON	10112,0	vt	vd	3			PSK	2k6	Stanag 4852 MIL
VERON	14008,0	09.56	28	3		UiPtr	F1B	250	Ptr, Revs

IARUMS Region 1

Many thanks for your interest!

The monitoring team of IARU Region 1

credits:

Wavecom Elektronik – Buelach – Switzerland

SSB-Electronic – Iserlohn – Germany

BAZ – Special Antennas - Germany

German PTT (BNetzA = Federal Network Agency)

compiled and published by DK2OM