



# Monitoring System

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

DJ9KR – Uli Bihlmayer  
Vice Co-ordinator of IARUMS Region 1  
Editor of the German Overview

The monthly newsletter for Region 1

## September 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 ++ OEVSV: OE3DMA – Alex ++ PZK: SP3SUZ – Wladyslaw ++ RAL: OD5RI – Riri ++  
++ REP: CT4AN – Jose and CT1JTQ – Angelo ++ RSGB: G4BOH - Chris ++ SARL: ZS1FCS - Fred ++  
++ SRAL: OH2BLU - Pekka ++ URE: EA5DY - Salvador ++ 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

# Part 1: News and Infos

## 1. Radio Uganda on 7195 kHz – latest results - reported by 5Z4NU

Hello all, after approaches by Bill, 5X1JM, the Uganda Communications Commission has informed Radio Uganda they are not permitted to use 7195 kHz. However, the station has continued to use it so far and it may be a little time before they move out. At least the point has been made and action initiated by the authorities. We continue to monitor. The good news is that Uganda amateurs have been authorised by UCC to use the band 7100- 7200 kHz. 73, Ted 5Z4NU

## 2. Illegal fishery traffic on our bands

DJ9KR found Nigerian fishery on 21002.0 kHz. On 80 m we observed UK-fishery, Dutch fishery, French fishery and Spanish fishery. On 10, 14 and 21 MHz we often found Spanish and Moroccan fishery. Tamil fishermen on 21 MHz. Most of the illegal transmissions are handled by Spanish fishery, here the latest results: 3500, 3510, 3515, 3520, 3530, 3535, 3545, 3550, 3555, 3575, **3590 daily**, 7000, 7010, 7040, 14000, 14050, 10101, 10120, 10122.6, 10125, 10130, 10135, 18069, 18080, 18085, 18122 LSB, 21000, 21005, 21022, 21090, 21123, 21140, 21160, 21325, 21350, 21395, 21400, 21425 kHz in USB, various times. No ship idents, only names or whistles. Often with voice scrambler “CRY 2001”, especially on **3590**.

## 3. OTH Radar systems on amateur bands

The Cyprus radar systems were active on 10 and 21 MHz. Turkish OTH radar systems (50 pps, 20 kHz wide) were abusing 14 and 21 MHz. On 21 MHz the radars were splattering over +/- 30 kHz. Locations: Area of Canakkale and East-Turkey. Spanish military was testing the new Spanish OTH Radar on 14184 and 14303 kHz, often with 66.66 pps. Russian OTH Radar Kaliningrad on 7054 kHz (38.47 pps - 4 kHz wide) on Sep. 28<sup>th</sup>. We were not amused.

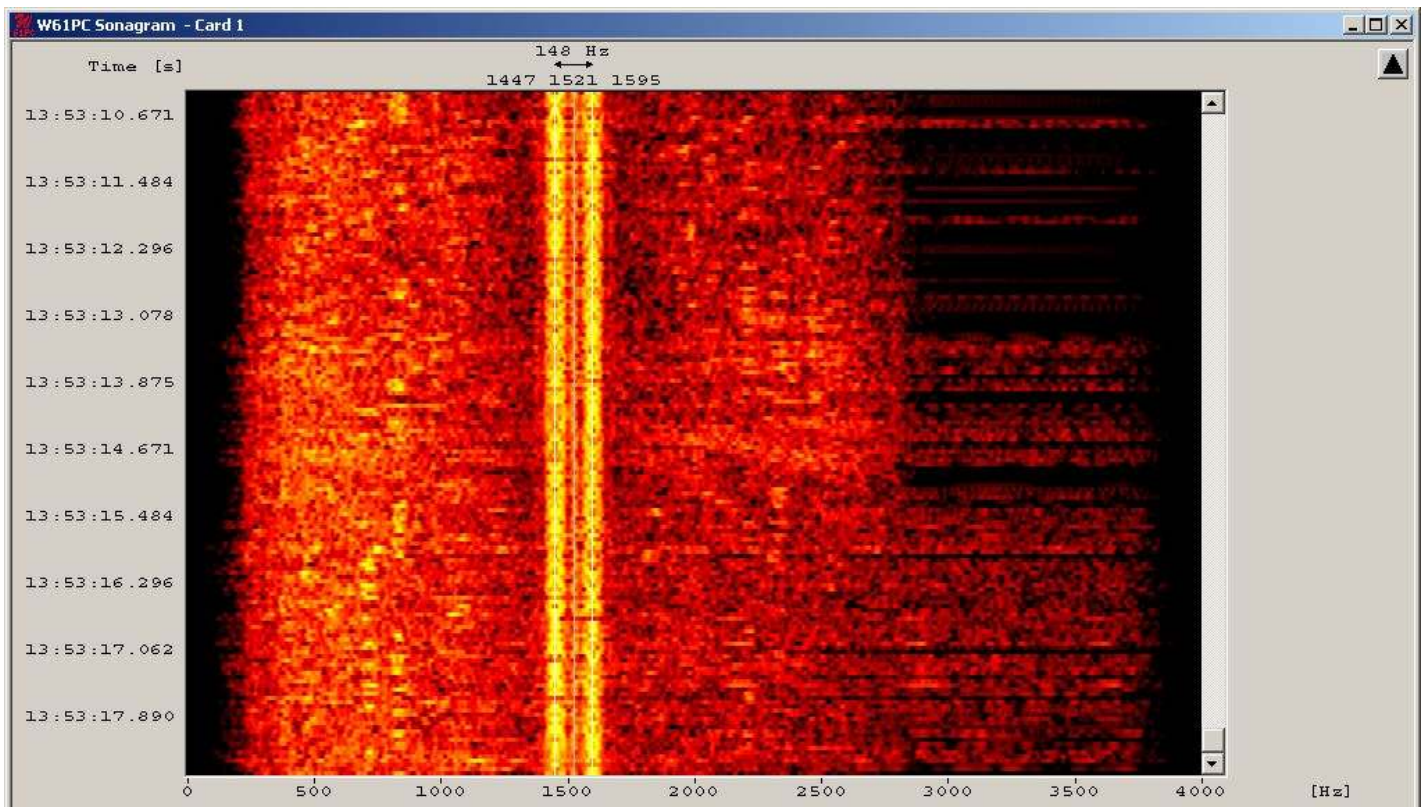
## 4. How to use the “Intruder Logger” and the “Alert System”

Please use the Alert System for long lasting intruders. If you send MSGs to our **Intruder Alert System**, mention the exact QRG, time in UTC and mode, if possible. Short time intruders should be send to our **Intruder Logger**. Sending MSGs to the Intruder Logger, only QRGs and modes are necessary. The current time of every entry is stored in the system.

## 5. Russian Yakhta voice scrambler on 21 MHz

From Sep. 1<sup>st</sup> we daily observed the Russian system “Yakhta” on 21000.0 kHz. Yakhta is a vocoder with an inband synchro key, audible as a F1B transmission (100 Bd, 150 Hz shift). The F1B center QRG was 21001.5 kHz. Location: Jekaterinburg. Observe the screenshot below!

**Yakhta voice traffic in USB with F1B inband synchro key (100 Bd and 150 Hz shift)  
location: area of Jekaterinburg / Russia - screenshot DK2OM with Wavecom W61**



- 6. Homepage IARU Region 1 <http://www.iaru-r1.org/>
- Homepage IARUMS Region 1 <http://www.iarums-r1.org>
- Homepage IARUMS Region 2 <http://www.intruder-watch.org/>
- Homepage IARUMS Region 3 <http://www.iaru-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 SEPTEMBER, 2010

Francophone Africa intruders again outnumbered observed Somalia intruders. It is possible that insurgent activity in Somalia has been against them as propagation should not be a serious problem and some stations are still heard easily. It is hard to differentiate between the French speaking stations, which could be in DRC, Rwanda, Burundi, Congo Brazzaville or some other countries in the area. In spite of a complaint against Radio Uganda using 7195 kHz being well received at UCC the station has been on the air daily throughout the month. Broadcast stations in Sudan, Eritrea and Ethiopia continue on the same band between 7100 and 7200 kHz.

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	6999.0	vt	*	9	E. Africa	59,60,	J3Eu	English, KiSwahili, military? 7,8,
ARSK	7007.0	vt	*	9	DRC	UiPHONE	J3Eu	Vernacular. *21,
ARSK	7008.0	vt	*	9	DRC	UiPHONE	J3E/u	Vernacular.*6,10,13,
ARSK	7009.0	vt	*	9	DRC	UiPHONE	J3E/u	French, vernacular. *18,20,
ARSK	7016.0	0855	3	9	SOM	UiPHONE	J3Eu	Somalis.
ARSK	7017.0	vt	*	9	DRC	UiPHONE	J3Eu	Vernacular.*16,
ARSK	7023.0	1235	22	9	DRC	uiPHONE	J3Eu	Vernacular.
ARSK	7024.0	0746	16	9	DRC	UiPHOINE	J3E	Vernacular.
ARSK	7025.0	0834	18	9	DRC	UiPHOINE	J3E	Vernacular.
ARSK	7027.0	vt	*	9	DRC	UiPHONE	J3Eu	French, Selcal.*16,
ARSK	7027.0	0855	3	9	SOM	UiPHONE	J3Eu	Somalis.
ARSK	7031.0	0845	25	9	SOM	UiPHONE	J3Eu	Somalis.
ARSK	7032.0	0520	7	9	SDN	UiPHONE	J3Eu	English, vernacular, phonetics.
ARSK	7040.0	vt	*	9	DRC	UiPHONE	J3E	Vernacular.*7,18,
ARSK	7046.0	0806	6	9	SOM	UiPHONE	J3E	Somalis.
ARSK	7048.0	vt	*	9	SOM	UiPHONE	J3Eu	Somalis.*13,
ARSK	7050.0	1520	20	9	DRC	UiPHONE	J3E	Vernacular.
ARSK	7055.0	1500	14	9	DRC	UiPHONE	J3Eu	Vernacular, verbal Morse.
ARSK	7057.0	vt	*	9	SOM	UiPHONE	J3Eu	Somalis.*11,
ARSK	7058.0	1440	25	9	DRC	UiPHONE	J3Eu	Vernacular.
ARSK+	7062.0	vt	*	9	SOM	UiPHONE	J3E/u	Somalis.*6,13,14,16,
ARSK	7070.0	vt	*	9	DRC	UiPHONE	J3E/u	French, vernacular, Swahili.*3,11,
ARSK	7074.0	1340	12	9	DRC	UiPHONE	J3E	Vernacular.
ARSK	7075.0	vt	*	9	DRC	UiPHONE	J3Eu	French, English, phonetics. *11,21,
ARSK	7080.0	vt	*	9	DRC	UiPHONE	J3E	Vernacular. *6,10,
ARSK	7083.0	1240	22	9	SDN	UiPHONE	J3E	NGO, English. Messages in phonetics.
ARSK	7085.0	0835	10	9	DRC	UiPHONE	J3Eu	Vernacular.
ARSK	7090.0	vt	*	9	SDN	UiPHONE	J3Eu	English message traffic in phonetics. NGO? *6,9,16,
ARSK	7092.0	vt	*	9	SOM	UiPHONE	J3Eu	Somalis.*14,21,
ARSK	7096.0	vt	*	9	SDN	UiPHONE	J3E	Phonetics. Vernacular and English.*22,25,
ARSK	7120.0	0830	18	9	SOM	UiPHONE	J3Eu	Somalis.
ARSK	7125.0	1431	22	9	ETH? ERI?	UIBC	A3E	Broadcast - VOBM, Eritrea, or Addis Ababa, Ethiopia
ARSK	7130.0	vt	*	9	ETH? ERI?	UiPHONE	J3Eu	Broadcast. *6,13,



H'd by	kHz	UTC	DD	MM	ITU	Identity	MODE	Details
ARSK	7140.0	0731	11	9	SOM	UiPHONE	J3Eu	Somalis.
ARSK	7140.0	vt	*	9	ETH?	UIBC	A3E	Broadcast, possibly Addis Ababa..*7,8,10,
ARSK	7145.0	0815	16	9	SOM	UiPHONE	J3Eu	Somalis.
ARSK	7147.0	0851	1	9	SOM	UiPHONE	J3Eu	Somalis.
ARSK	7160.0	vt	*	9	?	UiBC	A2E	Fairly weak, unidentified language. *6,13,14,
ARSK	7165.0	vt	dly	9	ETH, ERI	Addis Ababa, VOBM?	A3E	Broadcast. Arabic, Amharic. Somali.
ARSK	7170.0	0526	7	9	ERI?	UiBC	A3E	Broadcast.
ARSK	7175.0	vt	*	9	ERI	VOBM?	A3E	Broadcast. *5,9,14,21,25,
ARSK	7195.0	vt	dly	9	UGA	Kampala	A3E	Radio Uganda. Complaint lodged with UCC,
ARSK	7200.0	vt	dly	9	SDN	Khartoum	A3E	Broadcast in Arabic, Khartoum.

### DARC 1 – Germany – DJ9KR (Ui)

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

Spanish fishery: red coloured!

CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	Remarks and Comments
DARC	3500,0	1850	13	09	G	UiILL	J3E-U	UK fishery
DARC	3500,0	1957	20	09	E	UiILL	J3E-U	Spanish fishery using Vocoder CRY-2001
DARC	3500,0	vt	30	09	E	UiILL	J3E-U	Spanish fishery, Galician language "barco", engine noise, heard 12 30 at 2014, 1954 - to 3515
DARC	3510,0	1830	01	09	F	UiILL	J3E-U	French fishery
DARC	3510,0	0658	20	09	F	UiILL	J3E-U	French fishery
DARC	3515,0	2017	12	09	E	UiILL	J3E-U	Spanish fishery, Galician language "barco", engine noise, heard 12 30 at 2014, 1954 - from 3500 - to 3520
DARC	3515,0	0930	16	09	F	UiILL	J3E-U	French male pesons, private traffic, no hams
DARC	3515,0	1924	16	09	F	UiILL	J3E-U	French fishery, from 3535
DARC	3517,4	2020	10	09	E	UiILL	J3E-L	Spanish fishery, Diesel engine noise
DARC	3517,4	1907	16	09	E	UiILL	J3E-L	Spanish fishery, male and female persons, SSB-LSB used
DARC	3520,0	2022	12	09	E	UiILL	J3E-U	Spanish fishery, Galician language, engine noise - from 3515
DARC	3520,0	2134	22	09	E	UiILL	J3E-U	Spanish fishery
DARC	3520,0	2038	29	09	CIS	UiILL	J3E-U	male person counting in Russian voice
DARC	3520,5	2157	12	09	CIS	UiILL	J3E-U	net in Russian voice
DARC	3525,0	1658	22	09	HOL	UiILL	J3E-U	Dutch fishery
DARC	3526,0	1953	21	09	HOL	UiILL	J3E-U	Dutch fishery
DARC	3535,0	1933	11	09	G	UiILL	J3E-U	UK fishery
DARC	3535,0	1920	16	09	F	UiILL	J3E-U	French fishery, to 3515
DARC	3535,0	vt	vd	09	E	UiILL	J3E-U	Spanish fishery heard 16 24 25 at 1910, 1720, 0647
DARC	3536,0	1900	24	09	E	UiILL	J3E-U	Spanish fishery with Vocoder CRY-2001
DARC	3540,0	vt	vd	09	E	UiILL	J3E-U	Spanish fishery heard 16 29 at 2016, 1740
DARC	3550,0	0700	04	09	F	French Lis Amateurs	A3E	heard F5JPV (?), F6ACB, F8DNQ, F6AQK
DARC	3550,0	0727	06	09	F	French Lis Amateurs	A3E	heard F5TV, F6ACB - AM in CW-section, not funny!
DARC	3550,0	0657	07	09	F	French Lis Amateurs	A3E	French lis amateurs, AM in CW-section, not funny!
DARC	3550,0	0720	13	09	F	French Lis Amateurs	A3E	French lis amateure using AM in CW range, OP Christophe and others
DARC	3550,0	0720	15	09	F	French Lis Amateurs	A3E	French lis amateurs, others than on 3575
DARC	3550,0	0638	18	09	F	French Lis Amateurs	A3E	heard F6AQK and F1APJ, hardcore users of AM in CW section of 80-m-band

CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	Remarks and Comments
DARC	3550,0	1449	20	09	E	UiILL	J3E-U	Spanish fishery
DARC	3550,0	vt	vd	09	E	UiILL	J3E-U	Spanish fishery heard 17 23 at 1625, 2005
DARC	3552,0	1915	17	09	CIS	UiILL	J3E-U	Russian voice traffic
DARC	3553,0	1720	17	09	CIS	UiILL	J3E-L	male to female in Russian voice, SSB-LSB
DARC	3555,0	vt	vd	09	E	UiILL	J3E-U	Spanish fishery, heard 14 16 at 2009, 2011
DARC	3560,0	1913	11	09	G	UiILL	J3E-U	UK fishery
DARC	3575,0	0730	06	09	F	UiILL	A3E	French AM traffic
DARC	3575,0	2129	11	09	E	UiILL	J3E-U	Spanish fishery
DARC	3575,0	2136	12	09	E	UiILL	J3E-U	Spanish fishery, using Vocoder CRY-2001
DARC	3575,0	0720	15	09	F	French Lis Amateurs	A3E	French lis amateurs, with F7MHR (?)
DARC	3575,0	0725	17	09	F	French Lis Amateurs	A3E	AM in CW section, how bad!
DARC	3575,0	1830	21	09	HOL	UiILL	J3E-U	Dutch fishery
DARC	3577,0	0740	06	09	I	IZ3DVW/ BEACON	A1A	not coordinated beacon, S8
DARC	3577,0	0754	17	09	F	French Lis Amateurs	A3E	French lis amateurs, AM in CW-section, not funny!
DARC	3580,0	1938	16	09	CIS	UiILL	J3E-U	Russian voice, male and female
DARC	3589,0	1536	16	09	F	UiILL	J3E-U	French fishery, engine noise
DARC	3589,0	2132	24	09	CIS	UiILL	J3E-U	male person spelling figures in Russian language
DARC	3590,0	vt	dly	09	E	UiILL	J3E-U	Spanish fishery in Biscaya, daily heard 0615-0850, 1650 - 1915 - 19 reports all month
DARC	3590,0	vt	vd	09	E	UiILL	J3E-U	Spanish fishery heard 21 22 23 at 1959, 11803, 1955
DARC	3595,0	1928	11	09	CIS	UiILL	J3E-U	male net in Russian voice
DARC	4975,9	vt	dly	09	UGA	R.Uganda	A3E	heard 2009 - 2035, distorted modulation difficult to read, S9+10dB-dignal, QSB - just info
DARC	7000,0	1242	02	09	ISR	UiCAR	N0N	long lasting carrier S9+20dB heard all month all around the clock, location Tel Aviv
DARC	7000,0	1850	04	09	I	UiILL	J3E-L	Italian male persons, LSB!
DARC	7000,0	0125	06	09		UiCAR	N0N	long lasting carrier
DARC	7000,0	vt	08	09		UiBC	A3E	French px S9+30dB, vy low modulation, heard 1217 - 1219, then suddenly s/off
DARC	7000,0	0124	15	09		UiCAR	N0N	long lasting carrier
DARC	7000,0	1349	16	09	E	UiILL	J3E-U	Spanish fishery
DARC	7000,0	1758	16	09	CIS	UiILL	J3E-U	male persons in Russian voice
DARC	7000,0	1833	16	09		UiCAR	N0N	long lasting carrier
DARC	7000,0	2101	17	09		UiILL	J3E-L	2 male persons, roger-blip - SPL into ham band
DARC	7000,0	2105	21	09	IRQ	UiMUX	FSK8	ALE, US-Forces Iraq
DARC	7000,0	2000	23	09	I	UiILL	J3E-L	OP Salvatore, Italian voice, SSB-LSB used
DARC	7000,0	0110	24	09		UiCAR	N0N	long lasting carrier
DARC	7009,0	2050	03	09	RUS	V.o.Russia	A3E	Russian px, is mixture of 1089 and 5920 of Krasnodar Armavir - DF5SX
DARC	7009,0	2004	17	09	RUS	BC	A3E	Ru px, S7-signal
DARC	7010,0	2009	22	09	E	UiILL	J3E-U	Spanish fishery
DARC	7026,0	2105	21	09		UiMUX	J7D	PSK2, AT-3004-D
DARC	7038,5	1017	16	09	TCH	OK9EA	A1A	beacon, long lasting carrier S8
DARC	7038,8	1620	07	09	RUS	beacon P	A1A	is Kaliningrad, daily all day
DARC	7038,8	2005	28	09	RUS	beacon P	A1A	is Kaliningrad, daily all day
DARC	7039,0	1620	16	09	RUS	beacon C	A1A	is Moscow, daily all day
DARC	7039,0	2005	23	09	RUS	beacon C	A1A	is Moscow, daily all day
DARC	7040,0	2033	08	09		UiILL	J3E-U	male voices, weak, language not identified
DARC	7050,0	2043	30	09		UiILL	J3E-U	2 male persons in SSB-USB
DARC	7054,0	vt	02	09	RUS	UiPTR	F1B	fast reversals heard 2033 - 2046
DARC	7054,0	0625	11	09	RUS	UiPTR	F1B	reversals most of the time, sometimes printer
DARC	7054,0	1833	16	09	RUS	UiPTR	F1B	fast reversals
DARC	7054,0	0620	17	09	RUS	UiPTR	F1B	printer heard
DARC	7054,0	0635	18	09	RUS	UiPTR	F1B	reversals

CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	Remarks and Comments
DARC	7054,0	vt	28	09	RUS	UiOTH	P0N	OTH radar with 38,47 pps - location is Kaliningrad, heard 1430 - 2400
DARC	7054,0	1720	29	09	RUS	UiPTR	F1B	fast reversals
DARC	7054,0	vt	29	09	RUS	UiOTH	P0N	OTH radar with 38,47 pps - location is Kaliningrad, heard 0000 - 0310
DARC	7054,0	2033	30	09	RUS	UiPTR	F1B	reversals most of the time, sometimes printer
DARC	7068,0	0711	15	09		UiPTR	F1B	unid printer
DARC	7087,0	1715	22	09	RUS	UiMUX	OFDM-60	system OFDM-60, 3,5 kHz wide
DARC	7100,0	vt	06	09	E	UiILL	J3E-U	2 male persons in Spanish voice, "barco" often mentioned, OP Paco and ???, heard 1615 - 1622
DARC	7101,0	vt	24	09		UiILL	J3E-U	Ar male voices "hamdullillah"
DARC	7103,3	0700	04	09		UiBC	A3E	Spanish px
DARC	7105,0	2025	03	09		UiBC	A3E	weak signal
DARC	7105,0	2057	09	09	TUN	RTV Tunisia	A3E	heard S6, found // 7225
DARC	7105,0	2037	10	09	TUN	RTV Tunisia	A3E	carrying 7225 program
DARC	7105,0	vt	13	09	TUN	RTV Tunisia	A3E	S-8-signal heard 2032 - 2102
DARC	7105,0	2101	16	09	TUN	RTV Tunisia	A3E	Ar px S9
DARC	7105,0	vt	17	09	TUN	RTV Tunisia	A3E	Ar px, S7-signal, heard 2004 - 2104
DARC	7105,0	1915	18	09	TUN	RTV Tunisia	A3E	Ar mx, S8-signal
DARC	7105,0	2040	30	09	TUN	RTV Tunisia	A3E	S6-signal
DARC	7105,0	vt	dly	09	TUN	RTV Tunisia	A3E	IM3, Ar px heard all month 1910 - 2100, fundamental found on 7225
DARC	7110,0	vt	vd	08	ETH	R.Ethiopia	A3E	not heard on 7110 kHz after 15 August 2010
DARC	7112,0	1950	18	09		UiCAR	N0N	carrier
DARC	7114,0	1550	22	09		UiPTR	F1B	unid printer
DARC	7115,0	1550	22	09		UiBC	A3E	BC heard
DARC	7117,0	2025	03	09		REA4	F1B	reversals, location Area of Minsk
DARC	7117,0	1834	05	09		REA4	F1B	fast reversals
DARC	7125,0	2020	03	08	GUI	R. Conakry	A3E	heard 01 - 14 at 0600 - 0730, 1800 - 2200
DARC	7125,0	vt	22	09	ERI	VOBME	A3E	heard 1550 - 1703 under white noise jammer
DARC	7125,0	vt	22	09	ETH	ETH Govt Jammer	JAM	jammer active 1550 - 1703
DARC	7125,0	vt	22	09	G	UiILL	J3E-U	2 male persons in English dialect, engine noise in background - heard 1935 - 2017, sometimes S9-signal
DARC	7125,0	vt	vd	09	GUI	VOBME	A3E	VOBME is "Voice of the Broad Masses of Eritrea"
DARC	7129,2	0124	15	09		UiMOD	XXX	chirpy signal, unstable, S9+10dB
DARC	7130,0	2316	02	09	CHN	China Ntl. Radio	A3E	Chinese px
DARC	7130,0	0450	06	09		UiBC	A3E	BC heard
DARC	7130,0	1706	24	09	ETH	ETH Govt Jammer	JAM	white noise jammer on VOBME
DARC	7130,0	vt	24	09	ERI	VOBME	A3E	same px as on 7172 heard 1616 - 1703
DARC	7130,0	vt	29	09	ETH	ETH Govt Jammer	JAM	white noise jammer 1630 - 1720
DARC	7130,0	2315	30	08	CHN	China Ntl. Radio	A3E	Chinese px, S8
DARC	7140,0	0505	03	09		UiBC	A3E	weak signal
DARC	7140,0	1745	07	09	ETH	ETH Govt Jammer	JAM	WN jammer
DARC	7140,0	vt	07	09	ETH	ETH Govt Jammer	JAM	WN jammer 1605 - 1657
DARC	7140,0	vt	07	09	ERI	VOBME	A3E	heard 1605 - 1657 under WN jammer
DARC	7140,0	1833	16	09		UiBC	A3E	weak BC heard
DARC	7140,0	1850	18	09		UiBC	A3E	unid stn
DARC	7140,0	1916	23	08	CVA	R.Vatican	A3E	heard 1916 - 1920 s/off with jingle - 100 % proof
DARC	7140,0	1820	24	09	E.Af	UiBC	A3E	R.Ethiopia or VOBME
DARC	7144,0	vt	24	09	I	IT9RYH	J3E-L	many stns jamming IT9RYH, heard 2003 - 2012
DARC	7145,0	0450	18	09		UiBC	A3E	weak signal

CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	Remarks and Comments
DARC	7145,0	1954	18	09	CHN	R.China Intl.	A3E	Chinese px
DARC	7145,0	1750	20	09	ERI	VOBME	A3E	Ar px S9+25dB, found // 7175
DARC	7145,0	vt	20	09	ETH	ETH Govt Jammer	JAM	white noise jammer heard 1642 - 1730 s/off
DARC	7145,0	vt	20	09	ERI	VOBME	A3E	slightly audible under jammer 1642
DARC	7145,0	1820	24	09	E.Af	UiBC	A3E	R.Ethiopia or VOBME
DARC	7145,0	1346	vd	09	LAO	Lao National Radio	A3E	September 14: local news in En, items abt Lao National Assembly, 1353 ID with AM frequency, International News, heard 10 - 18 since re-activation 10 September - report Ron Howard, Asilomar Beach, Etón, CA, USA
DARC	7150,0	1630	29	09	RUS	UiMUX	PSK2	PSK2, AT-3004-D, location Murmansk
DARC	7155,0	1612	19	09	ETH	ETH Govt Jammer	JAM	white noise jammer
DARC	7155,0	1612	19	09	ERI	VOBME	A3E	slightly audible under jammer
DARC	7159,9	vt	21	09		UiBC	A3E	western music heard 2105 - 2131, nil at 2155 - exact frequ. 7159,96
DARC	7160,0	0450	06	09		UiBC	A3E	BC heard
DARC	7162,0	vt	21	09		UiPTR	F1B	unid printer heard 0538 - 0714
DARC	7165,0	1745	07	09	ETH	R.Ethiopia	A3E	is active
DARC	7165,0	vt	07	09	ETH	R.Ethiopia	A3E	heard 1558 - 1600, at 1600: "This is the External S. of R.ETH in English...", HOA music
DARC	7165,0	0450	18	09	ETH	R.Ethiopia	A3E	is active
DARC	7165,0	vt	20	09	ETH	R.Ethiopia	A3E	heard 1642 - 1800, French px at 1750 - 1800 S9+25dB
DARC	7165,0	1722	22	09	ETH	R.Ethiopia	A3E	clearly identified by announcer, French px heard 1722 - 1740
DARC	7165,0	vt	22	09	ETH	R.Ethiopia	A3E	heard 1546 - 1705 S9+25dB
DARC	7165,0	1616	24	09	ETH	R.Ethiopia	A3E	English px
DARC	7165,0	1820	24	09	ETH	R.Ethiopia	A3E	
DARC	7165,0	1700	25	09	ETH	R.Ethiopia	A3E	French px, "Addis Ababa" often mentioned
DARC	7165,0	1720	29	09	ETH	R. Ethiopia	A3E	
DARC	7165,0	vt	dly	09	ETH	R.Ethiopia	A3E	1600 - 1700: program in English language 1700 - 1800: program in French language
DARC	7170,0	1745	07	09	ETH	ETH Govt Jammer	JAM	WN jammer
DARC	7170,0	1745	07	09	ERI	VOBME	A3E	heard under WN jammer
DARC	7170,0	vt	07	09	ERI	VOBME	A3E	heard 1558 - 1657 und White Noise ("WN") Jammer
DARC	7170,0	vt	07	09	ETH	ETH Govt Jammer	JAM	WN jammer, at 1700: nil
DARC	7170,0	1833	16	09		UiBC	A3E	Ar px heard
DARC	7170,0	0504	22	09		UiILL	J3E-U	unid male voices, USB used
DARC	7171,9	1850	18	09	ERI	VOBME	A3E	Ar px S9+30dB, exact frequ. is 7171,95
DARC	7172,0	vt	18	09	ERI	VOBME	A3E	heard 1957 - 2000/ s/off with National Anthem
DARC	7172,0	0504	22	09	ERI	VOBME	A3E	HOA music
DARC	7172,0	1710	22	09	ETH	ETH Govt Jammer	JAM	white noise jammer on R.Eritrea
DARC	7172,0	vt	22	09	ERI	VOBME	A3E	HOA music, heard 1546 - 1705
DARC	7172,0	2016	23	09	ETH	ETH Govt Jammer	JAM	white noise jammer on R.Eritrea
DARC	7172,0	0524	24	09	ERI	VOBME	A3E	is audible
DARC	7172,0	1840	24	09	ERI	VOBME	A3E	music sounding like Indian film music, S9+20dB, no jammer!
DARC	7172,0	1859	24	09	ERI	VOBME	A3E	"Asmara" often mentioned, heard 1859 - s/off at 2000 with Ntl. Anthem
DARC	7172,0	vt	24	09	ETH	ETH Govt Jammer	JAM	white noise jammer on VOBME
DARC	7172,0	vt	24	09	ERI	VOBME	A3E	covered by white noise jammer, heard 1616 - 1703 - found // to 7130
DARC	7172,0	1720	29	09	ERI	VOBME	A3E	HOA music, S9+20dB
DARC	7173,0	2106	04	08	G	BBC (?)	A3E	IM, En px difficult to read, only lower sideband, frequency rocking, fundamental

CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	Remarks and Comments
								found on 7405, IM also found on 7637
DARC	7175,0	2105	01	09	G	BBC (?)	A3E	IM3, En px, one sideband, no carrier heard, modulation vy chirpy, fundamental found on 7405, IM also found on 7635
DARC	7175,0	2025	03	09		UiBC	A3E	IM of 7215, Russian px
DARC	7175,0	0411	05	09	ETH	ETH Govt. Jammer	JAM	white noise jammer 20 kHz spread
DARC	7175,0	1606	05	09	ETH	ETH Govt. Jammer	JAM	white noise jammer
DARC	7175,0	vt	05	09	ERI	VOBME	A3E	Ar px, Ar voice heard 1940 - 2002 s/off with National Anthem of Eritrea = 100 % proof! Listen to <a href="http://www.youtube.com/watch?v=qt8Ar3vvRhc">www.youtube.com/watch?v=qt8Ar3vvRhc</a>
DARC	7175,0	vt	05	09	ERI	VOBME	A3E	Ar px heard 1834 - 2002 s/off, ann.: "Eritrea" mentioned at 2002
DARC	7175,0	1748	07	09	ERI	VOBME	A3E	is active
DARC	7175,0	vt	07	09	ETH	ETH Govt Jammer	JAM	WN jammer 1605 - 1657
DARC	7175,0	1612	19	09	ETH	ETH Govt Jammer	JAM	white noise jammer
DARC	7175,0	1612	19	09	ERI	VOBME	A3E	slightly audible under jammer
DARC	7175,0	1750	20	09	ERI	VOBME	A3E	Ar px S9+25dB, found // 7145
DARC	7175,0	vt	20	09	ERI	VOBME	A3E	1956 - 2000/ s/off Ar mx S9+30dB, at 1959: National Anthem "Eritriya, Eritriya..."
DARC	7175,0	vt	20	09	ETH	ETH Govt Jammer	JAM	white noise jammer heard 1642 - 1730 s/off
DARC	7175,0	vt	20	09	ERI	VOBME	A3E	slightly audible under jammer 1642 till s/off at 1730
DARC	7175,0	1820	24	09	ERI	VOBME	A3E	
DARC	7175,0	vt	29	09	ETH	ETH Govt Jammer	JAM	white noise jammer 1630 - 1720
DARC	7176,2	2110	17	09		UiBC	A3E	distorted En px, also IM on 7634,8, fundamental found on 7405
DARC	7184,0	1720	29	09		UiPTR	F1B	unid printer
DARC	7185,0	1954	18	09		UiBC	A3E	
DARC	7185,0	vt	18	09		UiBC	A3E	2 px at the same time, heard 1948 till s/off at 1951
DARC	7189,7	0124	15	09	CLN	SLBC Sri Lanka	A3E	is active
DARC	7189,7	0110	24	09	CLN	SLBC Sri Lanka	A3E	is active
DARC	7190,0	0050	05	09	CLN	SLBC Sri Lanka	A3E	is audible
DARC	7190,0	0125	06	09	CLN	SLBC Sri Lanka	A3E	S8-signal
DARC	7190,0	1750	20	09	I	Italian Lis Amateurs	A3E	net of Italian Hams in AM, just info!
DARC	7192,0	0209	22	09		UiPTR	F1B	unid printer
DARC	7195,0	0505	03	09		UiBC	A3E	weak signal
DARC	7195,0	vt	21	08	UGA	R.Uganda	A3E	effective 21 August R.Uganda has left 7195 in the evening and night hours and QSYd to 4975,9 - excellent reception at 2104 DJ9KR
DARC	7200,0	2045	02	09	SDN	R.Omdurman	A3E	Arabic px
DARC	7200,0	0050	05	09	IRN	IRIB Teheran	A3E	S9+30dB-signal, harmful splatters down till 7190
DARC	7200,0	0125	06	09	IRN	IRIB Teheran	A3E	Spanish px S9+30dB
DARC	7200,0	2057	09	09	SDN	R.Omdurman	A3E	is active
DARC	7200,0	2019	10	09	SDN	R.Omdurman	A3E	Ar px
DARC	7200,0	2040	10	09	SDN	R.Omdurman	A3E	Ar px S9+30dB
DARC	7200,0	vt	13	09	SDN	R.Omdurman	A3E	heard 2032 till s/off at 2100
DARC	7200,0	0335	14	09	SDN	R.Omdurman	A3E	Ar px, distorted modulation difficult to read, S9+15dB
DARC	7200,0	vt	15	09	IRN	IRIB Teheran	A3E	Spanish px at 0124, Al-Quran recitals at 0131



CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	Remarks and Comments
DARC	7200,0	1833	16	09	SDN	R.Omdurman	A3E	Ar px heard
DARC	7200,0	0620	17	09	SDN	R.Omdurman	A3E	weak BC heard
DARC	7200,0	2004	17	09	SDN	R.Omdurman	A3E	S9+20dB-signal
DARC	7200,0	0631	18	09		UiBC	A3E	very weak signal
DARC	7200,0	1850	18	09	SDN	R.Omdurman	A3E	HOA music, S9+20dB
DARC	7200,0	1750	20	09	SDN	R.Omdurman	A3E	Arabic px
DARC	7200,0	0209	22	09	IRN	IRIB Teheran	A3E	Spanish px S9+30dB
DARC	7200,0	0110	24	09	IRN	IRIB Teheran	A3E	px in Spanish voice, directed to S.Am, S9+30dB, strong hum on modulation
DARC	7200,0	vt	24	09	SDN	R.Omdurman	A3E	Arabic voice, heard 1840 - 2013
DARC	7200,0	2032	30	09	SDN	R.Omdurman	A3E	Ar px S9+30dB
DARC	7205,0	2057	09	09	F	RFI	A3E	harmful splatters from RFI (7205 kHz) down till 7190
DARC	7205,0	2101	16	09	F	RFI	A3E	Fr px, harmful splatters down till 7185
DARC	7210,0	0524	24	09		UiBC	DRM	harmful splatters down till 7180
DARC	7225,0	0604	06	09		UiBC	DRM	harmful splatters down till 7180
DARC	10101,0	1147	04	09		UiILL	J3E-U	unid pirate net
DARC	10101,1	0620	14	09		UiILL	J3E-U	male voices, unid language
DARC	10107,0	2036	06	09		UiILL	J3E-U	unid male voices
DARC	10115,0	1740	08	09	MRC	UiILL	J3E-U	Moroccan fishery
DARC	10120,0	0718	06	09	E	UiILL	J3E-U	Spanish male "La Coruna"
DARC	10120,0	2037	13	09	E	UiILL	J3E-U	2 male persons in Spanish voice, "barco" often mentioned, heard 2037 - 2050
DARC	10120,9	vt	13	09	E	UiILL	J3E-U	2 male persons in Spanish, heard 1640 - 1650
DARC	10122,6	1936	08	09	E	UiILL	J3E-U	Spanish fishery, Galician language
DARC	10123,3	2053	23	09		UiILL	J3E-L	unid male persons
DARC	10125,0	0641	02	09		UiOTH	P0N	chirping pulses S9+30dB, 25 kHz spread
DARC	10125,0	0631	18	09	MRC	UiILL	J3E-U	2 male persons, Moroccan fishery
DARC	10125,0	vt	24	09	E	UiILL	J3E-U	Spanish fishery heard 2018 - 2025, then QSY to 10130, again back 2029 - 2057 s/off
DARC	10130,0	1728	06	09	E	UiILL	J3E-U	Spanish fishery
DARC	10130,0	0914	15	09	POR	UiILL	J3E-U	Portug. Fishery
DARC	10130,0	vt	15	09	POR	UiILL	J3E-U	2 male persons, Portuguese fishery heard 1605 - 1612, man says they are off the Portuguese Coast near Cabo Vicente sw tip of Iberic peninsula - excuses and promises not to disturb any more
DARC	10130,0	vt	24	09	E	UiILL	J3E-U	Spanish fishery from/to 10125
DARC	10130,2	vt	28	09	G	G3MFE	J3E-U	in contact with "Fred", not audible. They do not use any call sign during their traffic and are s/off without call sign. When asked for call very rude: "typical KRAUT", "we got the Geheime Staatspolizei", "Siegheil", "we got the Bandpolice on frequency". The name of Fred's wife is Margret.
DARC	10130,9	vt	13	09	MRC	UiILL	J3E-U	2 male persons heard 2037 - 2101
DARC	10131,0	2126	17	09	G	UiILL	J3E-U	intruder in English voice, see 10130,2 (G3MFE)
DARC	10133,9	0742	06	09	MRC	UiILL	J3E-U	2 male persons, Moroccan fishery
DARC	10134,0	0844	04	09	MRC	UiILL	J3E-U	Moroccan fishery
DARC	10135,0	vt	17	09		OTH-Radar	P0N	20 kHz spread, heard 2010 - 2022/ s/off
DARC	10139,9	2005	05	09		UiILL	J3E-U	2 male persons, distorted modulation
DARC	10143,5	0718	06	09	F.Ea	UiILL	J3E-U	Ja or KOR male voices?
DARC	10143,6	2005	05	09		UiILL	J3E-U	2 male persons, unid language
DARC	10145,0	vt	10	09		UiOTH	P0N	heard 0644 - 0823, splatters till 10130
DARC	10148,0	vt	vd	09	TUR	UiILL	J3E-U	splatters from Turkish voice traffic on 10150 SSB-USB, heard 28 29 at 1903, 1950
DARC	10150,0	vt	13	09	I	IS0PCO, IS0GUP	J3E-U	IS0PCO in contact with IS0GUP, out-of-band operation, also not conform to IARU band plan: no SSB in Band 10 - shame!
DARC	10150,0	1436	14	09	F.Ea	UiILL	J3E-U	Far East pirate net
DARC	10150,0	1737	19	09	E	UiILL	J3E-U	Spanish fishery

CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	Remarks and Comments
DARC	10150,0	0105	24	09	MRC	UiILL	J3E-U	2 male persons in MRC language, also some French expressions
DARC	10150,0	1702	27	09		UiOTH	P0N	OTH-radar suddenly sign on
DARC	10150,0	vt	27	09	TUR	UiILL	J3E-U	2 male persons in Turkish voice, heard 1640 - 1700, S9-signals, splatters into ham band
DARC	10150,0	2030	29	09		UiOTH	P0N	chirping pulses S9+30dB, 25 kHz spread
DARC	10150,0	1856	30	09	E	UiILL	J3E-U	Spanish fishery
DARC	10150,0	2030	30	09		UiILL	J3E-L	male voices, to weak to identify
DARC	13970,0	0725	13	09	CHN	Hainan Music Jammer	JAM	is active, just info!
DARC	13997,0	0838	26	09	E	UiILL	J3E-U	male to female in Spanish, splattering up into ham band
DARC	14000,0	1056	02	09	E	UiILL	J3E-U	Spanish fishery
DARC	14000,0	1557	02	09	F.Ea	UiILL	J3E-U	pirates from Far East (Indonesia???)
DARC	14000,0	0857	04	09	POR	Deutsche Welle	DRM	DRM from 13810, noise floor audible till 14300 and 13700 kHz
DARC	14000,0	0923	05	09		UiCAR	N0N	long lasting carrier
DARC	14000,0	1710	07	09	E	UiILL	J3E-U	Spanish female calling
DARC	14000,0	0724	11	09		UiILL	J3E-U	unid MIL, Codan beep heard
DARC	14000,0	1753	19	09	E	UiILL	J3E-U	Spanish fishery
DARC	14000,0	0945	31	08	D / POR	Deutsche Welle	DRM	Noise Floor up to 14200, fundamental found on , is transmitter site SINES, Portugal - BNetzA KON is informed
DARC	14000,0	vt	vd	09	B	UiILL	J3E-U	pirates from North Brazil
DARC	14006,0	0815	07	09	RUS	UiMUX	J7D	multiplex signal PSK2, AT-3004-D, heard 07 24 at 0815, 1030 - location Smolensk
DARC	14006,0	0653	16	09		UiPTR	F1B	unid printer
DARC	14009,1	1309	28	09	F.Ea	UiILL	J3E-U	Far East pirate net
DARC	14026,0	0929	16	09	RUS	UiMUX	J7D	PSK2, location Moscow
DARC	14040,0	1721	02	09		UiBC	A3E	BC-IM
DARC	14041,4	0733	30	09	CIS	IHSF, NXAP	A1A	"XXX XXX 54178 41424 TEZAURUS 1139 9654" - report DE1LAE
DARC	14041,4	0812	30	09	CIS	VPV1	A1A	"XXX XXX 59254 KRASNOBAR 3222 9453" - report DE1LAE
DARC	14051,3	1330	27	09	F.Ea	UiILL	J3E-U	Far East pirate net
DARC	14072,0	0724	27	09		UiPTR	F1B	unid printer
DARC	14160,0	0638	09	09		UiPTR	F1B	fast reversals
DARC	14180,0	0714	21	09		UiPTR	F1B	unid printer
DARC	14180,0	1640	21	09		UiPTR	F1B	unid printer, fast reversals
DARC	14191,1	1609	21	09	MRC	UiILL	A3E	Moroccan fishery, 2 male persons chatting in local language
DARC	14192,0	0716	06	09		UiPTR	F1B	fast reversals
DARC	14211,0	0720	27	09	RUS	RDL	F1A	5F, "DE RDL"
DARC	14229,7	0815	10	09		15-UIN-595	SSTV	picture "pirate", reported by DG7NY
DARC	14235,0	1711	24	09		UiMUX	J7D	PSK2, AT-3004-D
DARC	14240,0	0630	09	09		UiPTR	F1B	fast reversals
DARC	14241,0	0720	13	09	CHN	UiMUX	FSK8	ALE heard
DARC	14260,0	vt	30	09		674-00000	USB	roundslip "647-00000", USB plus carrier, heard 0802 - 0804 s/off
DARC	14269,0	0904	21	09		UiPTR	F1B	unid printer
DARC	14294,0	0717	27	09		UiMUX	J7D	multiplex rushing noise PSK2, AT-3004-D
DARC	14294,9	0809	30	09		UiBC	A3E	
DARC	14295,0	1627	19	09	TJK	R.Tajikistan	A3E	S8-signal heard
DARC	14295,0	0904	21	09	TJK	R.Tajikistan	A3E	heard with S6
DARC	14295,0	vt	27	09	TJK	R.Tajikistan	A3E	S7-signal, heard 0717, 1620
DARC	14295,1	1728	01	09	TJK	R.Tajikistan	A3E	S9-signal heard, pumping carrier, 3f de 4765 also heard S9, Farsi px
DARC	14295,1	1245	02	09	TJK	R.Tajikistan	A3E	S4-signal
DARC	14295,1	1558	ady	dly	TJK	R. Tajikistan	A3E	3f from 4765
DARC	14310,2	1620	24	09	E	UiILL	J3E-U	Spaniard and his wife
DARC	14325,0	0630	09	09		UiPTR	F1B	reversals
DARC	14335,0	0940	10	09	E	UiOTH	P0N	OTH-radar, transmitting in burstst with some 20 s of silence between

CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	Remarks and Comments
DARC	14335,0	1120	29	09	RUS	UiOTH	P0N	OTH radar
DARC	14343,0	0758	30	09	J	UiILL	J3E-U	2 male persons in Japanese (?) voice, engine noise, QTE 240 degs. from S.Germany
DARC	14350,0	1252	01	09	E	UiILL	J3E-U	male to female in Spanish
DARC	14350,0	1336	02	09	E	UiILL	J3E-U	Spanish fishery
DARC	14350,0	vt	30	09	RUS	UiILL	J3E-U	2 male persons in Russian, poss. Hams
DARC	18081,0	0918	15	09	CHN	UiILL	J3E-U	male traffic from East China
DARC	18100,0	1428	17	09	F.Ea	UiILL	J3E-U	Far East pirate net
DARC	18100,0	1951	19	09	I	UiILL	J3E-U	pirates in Italian voice
DARC	18122,0	0922	22	09	E	UiILL	J3E-U	Spanish fishery
DARC	18130,0	1450	25	09		UiBC	A3E	unid BC, IM
DARC	21000,0	2000	13	09	E	UiILL	J3E-U	Spanish fishery
DARC	21000,0	vt	13	09	MRC	UiILL	J3E-U	male persons heard 0752 - 0754
DARC	21000,0	1036	16	09	E	UiILL	XXX	voice scrambler CRY
DARC	21000,0	1530	20	09	S.Am	UiILL	J3E-U	family traffic in Spanish, report N3DG
DARC	21000,0	1344	22	09		UiILL	J3E-U	voice traffic, Arabic voice, QTE 120 degs.
DARC	21000,0	1620	26	09	E	UiILL	J3E-U	Spanish fishery
DARC	21000,0	1302	29	09		UiILL	J3E-U	unid male voice
DARC	21000,0	0938	30	09	B	UiILL	J3E-U	Brazilian pirates with "P2"
DARC	21000,0	vt	vd	09	RUS	UiILL	J3E-U	Ru traffic, using Vocoder Yakhta, heard 13 15 at 0710, 0700 - location Yekaterinburg
DARC	21000,3	1120	29	09	J	UiILL	J3E-U	Japanese (?) male persons chatting
DARC	21000,9	vt	22	09	MRC	UiILL	J3E-U	2 Moroccan fishermen in Arabic dialect, heard 0840 - 0844, from 21100,9
DARC	21001,2	1303	23	09	CLN	UiILL	J3E-U	Tamil fishery
DARC	21001,5	vt	dly	09	RUS	UiPTR	F1B	heard 7000 - 1300, 05 - 28, 9 reports, location Area of Vladivostok
DARC	21002,0	vt	15	09	CME / NIG	Fishery Vessel "Volocan-3"	J3E-U	2 male persons in Vernacular and English (to ham radio station), Nigerian fishery vessel "Volocan-3", registered harbour Lagos, fishing in waters of Cameroon, posn. 03 40 N 06 44 E, heard 1740 - 1812
DARC	21002,0	vt	21	09	NIG	UiILL	J3E-U	2 male persons chatting, heard 1703 - 1720
DARC	21002,0	vt	vd	09	NIG	UiILL	J3E-U	Nigerian fishery heard 20 21 at 1732, 1540
DARC	21005,0	0859	05	09		UiOTH	P0N	OTH-radar
DARC	21005,0	1741	29	09	E	UiILL	J3E-U	Spanish fishery
DARC	21005,0	vt	29	09	E / MRC	fishery vessel "Alaitif-III"	J3E-U	Spanish fishery, ship's name "Alaitif-Tres", "barco de pesca", their base is in Casablanca - heard 1125 - 1138 s/off
DARC	21011,0	1945	14	09	MRC	UiILL	J3E-U	Moroccan fishery
DARC	21021,0	vt	28	09	MRC	UiILL	J3E-U	Moroccan dialect, also some French expressions, heard 1112 - 1123
DARC	21023,0	0823	13	09	E	UiILL	J3E-U	2 male persons in Spanish "5 arriba" after intervention of amateur radio station (5 channels up???, not heard on 21028)
DARC	21023,0	vt	13	09	E	UiILL	J3E-U	2 male persons in Spanish voice, long discussion about "langustinos", heard 0756 - 0823
DARC	21065,0	0850	28	09		UiOTH	P0N	unid OTH-Radar
DARC	21071,0	1650	27	09		UiPTR	F1B	very narrow shift
DARC	21100,0	0850	15	09	F.Ea	UiILL	J3E-U	Far East pirate net
DARC	21100,0	vt	16	09	E	UiILL	J3E-U	2 male persons in Spanish voice
DARC	21100,9	vt	22	09	MRC	UiILL	J3E-U	2 Moroccan fishermen, heard 0835 - 0840 - after "intervention" went to 21000,9
DARC	21111,0	0715	30	09	S.As	UiILL	J3E-U	2 male persons, S.As voice, QTE 090 degs from S.Germany
DARC	21111,2	1320	13	09	CLN	UiILL	J3E-L	Tamil fishery, using SSB-LSB, QTE 115 degs.
DARC	21121,0	14000	24	09	MRC	UiILL	J3E-U	Moroccan fishery
DARC	21140,0	vt	08	09	E	UiILL	J3E-U	Galician fishery, 2 males, heard 0835 - 0845
DARC	21140,0	vt	10	09	E	UiILL	J3E-U	2 male persons in Galician language, "barco" often mentioned, discussing request of ham to leave the QRG, heard

CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	Remarks and Comments
								0709 - 0717, QSY to 21160
DARC	21152,0	vt	vd	09	MRC	UiILL	J3E-U	Moroccan fishery, heard 23 25 at 1713, 1746
DARC	21160,0	vt	10	09	E	UiILL	J3E-U	2 male persons in Galician language, heard 0709 - 0717 - 0723, QSY from 21140
DARC	21210,0	1020	30	09		UiOTH	P0N	radar heard
DARC	21212,0	vt	28	09	MRC	UiILL	J3E-U	Moroccan fishery heard 0805 - 0811 s/off
DARC	21222,2	vt	15	09	MRC	UiILL	J3E-U	2 male persons, MRC-Arabic and nice French, confirming that they are MRC fishermen and that they will respect ham radio QRGs in the future - 1024 - 1028
DARC	21250,0	vt	15	09		OTH-Radar	P0N	transmitting 1529 - 1539, 5 parallel channels together 20 kHz spread, center QRG is 21250
DARC	21260,0	vt	30	09		UiOTH	P0N	short bursts of radar pulses, different patterns of pulse rate, heard 0718 - 0945
DARC	21294,9	1045	30	09		UiBC	A3E	heard 1045 - 1100, weak signal and difficult to identify
DARC	21295,0	1008	29	09		UiBC	A3E	BC-IM
DARC	21300,0	vt	16	09	TUR	Turkish OTH Radar	P0N	heard 1423 - 1457, 40 kHz spread
DARC	21324,0	vt	23	09		UiPTR	F1B	heard 1400 - 1407 - is 2f de 10662
DARC	21330,0	0546	24	09		UiOTH	P0N	S9+30dB, 20 kHz spread
DARC	21340,0	1000	13	09		OTH-Radar	P0N	unid OTH-Radar
DARC	21355,0	1102	18	09		OTH-Radar	P0N	15 kHz spread
DARC	21400,0	vt	16	09	TUR	Turkish OTH Radar	P0N	heard 0705 - 0730, 20 kHz spread, info P.Z.
DARC	21410,0	0657	16	09	CHN	R.China Intl.	A3E	Chinese px, S3 - is IM3 of 2 jammers on 21550 and 21690 - knitting pattern 21550 x 2 - 21690 = 21410 - already heard in August 2010
DARC	21410,0	0620	19	09	CHN	R.China Intl.	A3E	R.China for "jammer purposes", IM3 of 21550 and 21690 - report DL8MCG
DARC	21410,0	vt	30	09	CHN	R.China Intl.	A3E	Chinese px, S5, heard 0619 - s/off at 0700 - is IM3 of 2 jammers on 21550 and 21690 - knitting pattern 21550 x 2 - 21690 = 21410 - already heard in August 2010
DARC	21425,1	1826	26	09	E	UiILL	J3E-U	Spanish fishery, male to female, same persons as on 14310,1
DARC	21540,0	1028	14	09	KWT	Radio Kuwait	A3E	extremely harmful splatters over the whole 15-m-band, fundamental S9+35dB - report to BNetZA
DARC	21540,0	1017	15	09	KWT	Radio Kuwait	A3E	s/on program, clear audio - still no splatters at 1446
DARC	21540,0	1919	17	09	KWT	Radio Kuwait	A3E	splatters down till 21400
DARC	21690,0	0619	30	09	CHN	Firedrake Jammer	JAM	firedrake music jammer, just info!
DARC	28003,8	1830	14	09	S.Am	UiILL	J3E-L	Spanish male voices, location S.Am
DARC	28005,0	1914	19	09	B	UiILL	A3E	Brazilian CB-ers
DARC	28015,0	1940	01	09	B	UiILL	A3E	Brazilian CB-ers
DARC	28015,0	1914	19	09	B	UiILL	A3E	Brazilian CB-ers
DARC	28045,0	1828	14	09	E	UiILL	A3E	Spanish CB-like traffic
DARC	28065,0	1923	14	09	B	UiILL	A3E	CB-ers from Brazil
DARC	28075,0	1056	17	09	RUS	Russian Taxi	F3E	Russian taxi
DARC	28085,0	0935	17	09	RUS	Russian Taxi	F3E	Russian taxi
DARC	28105,0	1056	17	09	RUS	Russian Taxi	F3E	Russian taxi
DARC	28175,0	0934	17	09	RUS	Russian Taxi	F3E	Russian taxi
DARC	28195,0	0934	17	09	RUS	Russian Taxi	F3E	Russian taxi
DARC	28235,0	1055	17	09	RUS	Russian Taxi	F3E	Russian taxi
DARC	28295,0	1054	17	09	RUS	Russian Taxi	F3E	Russian taxi



**DARC 2– Germany – DK2OM (Wolf)****PSE observe:****FSK transmissions -> center frequency between mark and space****PSK transmissions -> center frequency (substract the modem frequency!)****ALE (MIL188-141A) -> USB frequency – exclusive bands: black – nonexclusive: blue**

<b>DARC</b>	<b>KHz</b>	<b>UTC</b>	<b>DD</b>	<b>MM</b>	<b>ITU</b>	<b>IDENT</b>	<b>MODE</b>	<b>BD</b>	<b>SH</b>	<b>DETAILS</b>
<b>DARC</b>	1812,0	ady	dly	09	POL		A3E			Polish “PIP” – 10 tones – North-Poland – Baltic coast - POL Navy ?
<b>DARC</b>	3500,5	1635	02	09	RUS		F1B	75	200	Kaliningrad
<b>DARC</b>	3503,5	vt	dly	09	G	no ITU	FSK8	125	1750	ALE – “XSS” “XPU” – British MIL Tascomm
<b>DARC</b>	3505,0	2155	08	09	BLR		PSK2	120	2600	AT3004D - north of Minsk
<b>DARC</b>	3509,8	1930	22	09	ISR		PSK4	75	2400	MIL188-110A – hybrid modem
<b>DARC</b>	3522,0	0712	20	09						frequency hopper
<b>DARC</b>	3523,2	1910	13	09	ALG		PSK4	75	2400	ship - Mediterranean Sea - north of Jijel - North Algeria
<b>DARC</b>	3526,0	2129	26	09	RUS		PSK2	120	2600	AT3004D - Velikije Luki
<b>DARC</b>	3527,0	2027	12	09	RUS		F1B	50	200	Murmansk
<b>DARC</b>	3527,0	1938	01	09	TUR		PSK4	75	2400	Link11 - West-Turkey
<b>DARC</b>	3528,0	vt	dly	09			FSK8	125	1750	ALE, “001” “002”
<b>DARC</b>	3533,8	1925	17	09	F		PSK4	75	2400	Link11 - ship, west of Brest with ship close to Alger
<b>DARC</b>	3534,7	1720	15	09			PSK8	2400	2600	Link11 - SLEW
<b>DARC</b>	3544,0	1919	25	09	RUS		F1B	75	250	Kaliningrad
<b>DARC</b>	3548,0	1948	30	09	RUS		F1B	50	200	west of Smolensk
<b>DARC</b>	3552,0	1942	03	09	RUS		F1B	50	200	Far-East-Russia
<b>DARC</b>	3553,8	ady	dly	09	TUR		PSK8	2400	2600	Stanag4285 – TUR MIL
<b>DARC</b>	3561,8	2109	09	09			PSK8	2400	2600	Link11 - SLEW
<b>DARC</b>	3565,5	1600	11	09	RUS		F1B	75	250	St. Petersburg
<b>DARC</b>	3567,5	1821	09	09	RUS		PSK2	120	2600	AT3004D - Kaliningrad
<b>DARC</b>	3570,0	1848	13	09						frequency hopper
<b>DARC</b>	3585,0	1700	dly	09	TWN	HLL	FIC			120 rpm, IOC 576, Wxfax - legal!
<b>DARC</b>	3586,0	2040	23	09	RUS		F1B	75	200	Kaliningrad
<b>DARC</b>	3586,5	2139	06	09	BEL		OFDM	44.5	1800	OFDM27 - west of Brussels
<b>DARC</b>	3590,0	vt	dly	09	PAK	no ITU	FSK8	125	1750	ALE, “KW” “BABUR” “KHA” “KHAIBAR” “BADR”
<b>DARC</b>	3591,5	2150	15	09	F		OFDM	44.5	1800	OFDM27 - south of Bordeaux
<b>DARC</b>	3592,0	1814	21	09	UKR		PSK2	120	2600	AT3004D - north of Lvov
<b>DARC</b>	3595,0	vt	dly	09	D	no ITU	FSK8	125	1750	ALE, „ZLST“ „ZPRI“ „ZSHO“ „ZBOR“ „ZEMD“ „ZHEL“ „ZKNI“ „ZBOR“ „BPLEZS“ German customs – North-Germany
<b>DARC</b>	3596,0	vt	dly	09	HRV	9A0ALE	FSK8	125	1750	Croatian emergency ALE-net --- for info!
<b>DARC</b>	3596,0	vt	dly	09	D	DK0ESD	FSK8	125	1750	ALE, “DK0ESD” – just for info
<b>DARC</b>	3603,0	vt	vd	09	D	DA0EC	PSK8	2000	2000	RFSM 8000 – amateur emergency net - Berlin - legal operation - just for info!!!
<b>DARC</b>	3608,0	vt	dly	09	RUS		F1B	50	200	Kaliningrad
<b>DARC</b>	3617,0	vt	dly	09	HRV	9A0ZG	FSK8	125	1750	ALE, “9A0ZG” - just for info!
<b>DARC</b>	3622,5	1845	dly	09	J	JMH	FIC			Tokyo Meteo - 120 rpm - IOC 576 – weather charts
<b>DARC</b>	3660,0	1620	11	09	F		PSK8	2400	2600	Stanag4285 - Marseille
<b>DARC</b>	3699,5	1835	01	09	RUS		F1B	50	200	Kaliningrad
<b>DARC</b>	3735,0	1600	dly	09	POL		F1B	43	500	idling, South of Warsaw
<b>DARC</b>	3772,0	1945	23	09	RUS		F1B	50	200	Kaliningrad
<b>DARC</b>	3782,0	ady	dly	09	POR	CTP	F1B	75	850	POR Navy headquarter Lisbon
<b>DARC</b>	7000,0	vt	dly	09	IRQ	no ITU	FSK8	125	1750	ALE, “Tallil” “Basrah” “Alkut”– US MIL Iraq
<b>DARC</b>	7000,0	vt	dly	09	IRQ	no ITU	FSK8	125	1750	ALE, “T3Z158” “EAGLE” - US MIL
<b>DARC</b>	7000,0	vt	dly	09	LBY	no ITU	FSK8	125	1750	ALE, “HQ3” “Ghadames” – Libyan GMRA

DARC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
DARC	7000,0	ady	dly	09	ISR		N0N			carrier, Haifa
DARC	7000,0	1430	13	09	RUS		PSK2	120	2600	AT3004D - Far East-Russia
DARC	7010,0	vt	dly	09	GRC	no ITU	FSK8	125	1750	ALE, "RS004A" - NATO NC3A Network
DARC	7013,0	1418	03	09	RUS		PSK4	120	2600	AT3104D - Velikije Luki
DARC	7016,0	1100	22	09	RUS		F1B	75	250	west of Moscow
DARC	7018,0	0753	05	09	RUS		F1B	50	250	
DARC	7020,0	vt	dly	09	GRC	no ITU	FSK8	125	1750	ALE, "BS008C1" "CS004A" - NATO NC3A Network
DARC	7022,0	1407	28	09	RUS		PSK2	120	2600	AT3004D - Moscow
DARC	7030,0	0525	11	09	RUS		F1B	75	250	area of Moscow
DARC	7033,0	1951	21	09						frequency hopper
DARC	7038,7	ady	dly	09	UKR	D	A1A			Cluster beacon - Sevastopol RUS Navy - "RCV"
DARC	7038,8	ady	dly	09	RUS	P	A1A			Cluster beacon - Kaliningrad RUS Navy - "RMP"
DARC	7038,9	ady	dly	09	RUS	S	A1A			Cluster beacon - Murmansk RUS Navy - „RIT“
DARC	7039,0	ady	dly	09	RUS	C	A1A			Cluster beacon - Moscow RUS Navy - "RIW"
DARC	7039,2	ady	dly	09	RUS	F	A1A			Cluster beacon - Vladivostok RUS Navy - "RJS"
DARC	7039,4	1930	02	09	RUS	M	A1A			Cluster beacon - Magadan RUS Navy -
DARC	7039,9	ady	dly	09	I	IZ3DVW	A1A			IZ3DVW - beacon not coordinated
DARC	7040,5	vt	dly	09	D	DK0ESD	FSK8	125	1750	ALE, "DK0ESD" - just for info
DARC	7040,5	1913	24	09	F	F1GHX	FSK8	125	1850	ALE, "F1GHX" - just for info
DARC	7048,0	2150	09	09	E		P0N			OTH Radar - 66.66 pps
DARC	7049,5	vt	dly	09	F	F4BXW	FSK8	125	1750	ALE, "F4BXW" - just for info!
DARC	7054,0	vt	dly	09	RUS		F1B	50	120	RUS MIL - Moscow
DARC	7055,0	1414	28	09	RUS		P0N			OTH - 38.46 pps - 4 kHz wide - splattering 5 kHz up and down - location: Ivanovo
DARC	7055,0	1658	28	09						frequency hopper
DARC	7059,0	0856	15	09	RUS		F1B	75	200	Moscow
DARC	7080,0	1410	27	09	RUS		F1B	50	200	Kaliningrad
DARC	7086,9	1719	22	09	RUS		OFDM	35.5	2770	OFDM60 - Kaliningrad
DARC	7102,0	vt	dly	09	F	F4BXW	FSK8	125	1750	ALE, "F4BXW" - just for info
DARC	7116,0	0739	16	09	RUS		F1B	75	200	Smolensk
DARC	7116,7	ady	dly	09	RUS		N0N			carrier - Rostov
DARC	7117,0	1857	01	09	RUS	REA4	F1B	50	1000	area of Moscow
DARC	7118,0	0640	30	09	RUS		PSK2	120	2600	Kaliningrad
DARC	7119,0	1425	15	09	UKR		F1B	75	250	north of Lvov - dirty signal
DARC	7122,0	0741	16	09	RUS		F1B	75	250	Smolensk
DARC	7162,0	0549	11	09	RUS		F1B	100	250	area of Moscow
DARC	7165,0	1620	dly	09	ETH	QRM	A3E			white noise from Radio Ethiopia
DARC	7171,0	0658	17	09	RUS	RI27	A1A			encrypted A1A - RUS MIL
DARC	7175,0	1620	dly	09	ETH	QRM	A3E			white noise from Radio Ethiopia
DARC	7176,0	0852	16	09	RUS		F1B	75	250	Moscow
DARC	7178,0	1714	11	09	RUS		PSK2	120	2600	AT3004D - south east of Smolensk
DARC	7181,0	1358	10	09	RUS		PSK4	120	2600	AT3104D - area of Magadan
DARC	7184,0	1707	29	09	RUS		F1B	75	200	Murmansk
DARC	7185,0	1501	03	09	ETH	QRM	noise		9000	broadbandsignal, white noise, no carrier
DARC	7185,0	1254	19	09	HOL		OFDM	37.5	2400	OFDM51 - WinDRM - ham picture transmissin - just for info!
DARC	7185,5	vt	dly	09	D		FSK8	125	1750	ALE, "DK0ESD" just for info!
DARC	7185,5	vt	dly	09	F		FSK8	125	1750	ALE, "F4BXW" - just for info!
DARC	7188,0	0658	07	09	RUS		F1B	75	250	Moscow
DARC	7198,0	0658	29	09	RUS		PSK2	120	2600	AT3004D - Smolensk
DARC	10112,0	ady	dly	09	TUR		PSK8	2400	2600	Stanag4285 - 600 bps long - Turkish MIL
DARC	10115,0	0600	dly	09	RUS		FSK4	96	1500	CIS 14 group - Moscow - dly
DARC	10120,0	1450	05	09	CYP		P0N		20k	OTH Radar Cyprus, 50 pps

DARC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
DARC	10121,0	1555	07	09	RUS		F1B	75	250	area of Ryazan
DARC	10122,0	1438	19	09	SRB		F1B	50	500	50 Bd async. - Serbia
DARC	10122,0	1436	19	09						frequency hopper
DARC	10123,0	1443	20	09	RUS		PSK	120	2600	AT3004D - Kirov
DARC	10123,0	0749	25	09	RUS		F1B	75	200	Kaliningrad
DARC	10124,0	vt	dly	09	ALG	no ITU	FSK8	125	1750	ALE, "CM1" "CTF" - Algerian Airforce
DARC	10124,0	1940	06	09	FIN		F1B	50	200	north of Helsinki
DARC	10125,0	1344	18	09						frequency hopper
DARC	10125,0	1855	25	09	CYP		P0N		20k	OTH Radar Cyprus, 50 pps
DARC	10130,0	vt	dly	09			FSK8	125	1750	Thales Skymaster - uniden
DARC	10130,0	vt	dly	09	USA	NAA	F1B	50	850	Cutler, Maine - US Navy
DARC	10131,8	vt	dly	09	ARS		FSK8	125	1750	ALE, "NAI" "RCI" - Saudi Arabian MIL
DARC	10132,0	0933	21	09	RUS		F1B	75	250	south east of Moscow
DARC	10133,5	1437	30	09			F1B	600	600	DPRK-FSK600 - 70 - 80 deg. from DL - 10135.530 kHz
DARC	10135,0	vt	dly	09	ARS	no ITU	FSK8	125	1750	ALE, "NAI" "RCI" "RCP" - Saudi Arabian MIL
DARC	10136,5	1923	08	09	F	F4BXW	FSK8	125	1750	ALE, "F4BXW" - just for info!
DARC	10140,0	1709	27	09	CYP		P0N		20k	OTH Radar Cyprus, 50 pps
DARC	10145,0	1255	10	09	CYP		P0N		20k	OTH Radar Cyprus, 50 pps
DARC	10148,4	1556	27	09			PSK8	2400	2600	Link11 - unid
DARC	10150,0	1415	03	09	CYP		P0N			OTH Radar Cyprus, 50 pps
DARC	14000,0	1300	vd	09	POR		DRM			spurious from DRM on 13810 kHz - Sines - Portugal stretching up to 14200 kHz
DARC	14001,9	1918	26	09	USA		F1C			WX-Fax, 120 rpm, IOC576
DARC	14006,0	0646	30	09	RUS		PSK4	120	2600	AT3104D - Smolensk
DARC	14006,0	0840	02	09	RUS		F1B	75	250	south of Jekaterinburg
DARC	14026,0	0839	15	09	RUS		PSK2	120	2600	AT3004D - Moscow
DARC	14031,0	0729	24	09	RUS		PSK2	120	2600	AT3004D - Kaliningrad
DARC	14037,0	0755	03	09	RUS		F1B	100	250	Murmansk
DARC	14037,0	0724	20	09	RUS		F1B	100	250	Murmansk
DARC	14040,0	1300	01	09						frequency hopper
DARC	14052,0	1109	27	09	RUS		PSK2	120	2600	AT3004D - Nizhniy Novgorod
DARC	14054,0	1325	02	09	RUS		PSK2	120	2600	AT3004D, Russian ship, north of Tripoli, Libya
DARC	14070,0	0837	09	09						frequency hopper
DARC	14081,0	0730	23	09	RUS		F1B	75	250	Penza
DARC	14090,0	1534	08	09						frequency hopper
DARC	14090,9	0650	21	09	RUS		OFDM	29.6	2800	OFDM60 - Moscow
DARC	14090,9	0732	23	09	RUS		OFDM	29.6	2800	OFDM60 - Irkutsk
DARC	14109,0	1203	21	09	F		FSK8	125	1750	ALE, "F4BXW" - just for info
DARC	14118,0	0857	15	09	RUS		F1B	75	500	Moscow
DARC	14120,0	0904	20	09	RUS		F1B	75	250	Moscow
DARC	14122,0	1309	17	09	RUS		PSK2	120	2600	AT3004D - area of Moscow
DARC	14160,0	1504	03	08	RUS		F1B	50	250	Izhevsk
DARC	14160,0	0700	08	09	RUS		F1B	75	250	Velikije Luki
DARC	14180,0	1002	23	09	UKR		F1B	50	250	Sevastopol
DARC	14192,0	vt	vd	09	RUS		F1B	50	200	RUS Navy Kaliningrad
DARC	14205,0	0910	15	09	RUS		PSK2	120	2600	AT3004D - Penza
DARC	14211,0	1635	24	09	RUS		F1B	36/50	250	north of Moscow
DARC	14212,5	0758	29	09	RUS		PSK2	120	2600	AT3004D - east of Moscow
DARC	14234,0	1306	08	09	RUS	REA4	F1B	50	2000	harmonic from 7117 - REA4
DARC	14240,0	0650	14	09	RUS		F1B	75	250	Moscow
DARC	14260,0	1008	23	09	RUS		P0N			RUS OTH Radar ABM2 - 50 pps - area of Gorky
DARC	14262,0	vt	dly	09	CHN		FSK8	125	1750	ALE, "316" "849"
DARC	14268,0	0800	15	09	RUS		PSK2	120	2600	AT3004D - Novosibirsk
DARC	14274,0	1338	03	09	RUS		PSK2	120	2600	AT3004D - ship, Black Sea
DARC	14274,5	0850	15	09	RUS		PSK2	120	2600	AT3004D - Moscow
DARC	14280,0	1250	19	09	RUS		F1B	75	250	
DARC	14282,0	0751	29	09	RUS		PSK2	120	2600	AT3004D - Moscow
DARC	14291,0	0710	06	09	RUS		PSK4	120	2600	AT3104D - north of Moscow
DARC	14291,0	0805	15	09	RUS		PSK2	120	2600	AT3004D - Moscow

DARC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
DARC	14291,0	0654	20	09	RUS		PSK4	120	2600	AT3104D - Moscow
DARC	14292,0	1050	03	09	RUS		F1B	100	250	FarEast-Russia
DARC	14295,1	ady	dly	09	TJK		A3E			Radio Tajik – 3 <sup>rd</sup> from 4765
DARC	14300,0	vt	dly	09	ALG		FSK8	125	1750	ALE, “BJ80”
DARC	14301,9	0915	08	09	RUS		OFDM	30	2800	OFDM 60 - north of Vladivostok
DARC	14301,9	0748	28	09	RUS		OFDM	35.6	2760	OFDM60 - Moscow
DARC	14303,0	0717	18	09	E		P0N			Spanish OTH Radar 66.66 pps
DARC	14313,0	vt	dly	09	POR		FSK8	125	1750	ALE, “CT2GOY” - just for info
DARC	14317,0	0937	07	09	RUS		A1A			5 letter groups - Moscow
DARC	14319,0	0925	14	09						frequency hopper
DARC	14322,0	0917	08	09	RUS		F1B	75	250	area of Bratsk
DARC	14324,0	0914	15	09	RUS		F1B	75	500	Nizhny Novgorod
DARC	14335,0	0825	29	09	RUS		P0N			RUS OTH Radar ABM2 - 50 pps - location: Ivanovo
DARC	14342,0	0948	23	09	RUS		F1B	75	250	Penza
DARC	14342,5	vt	dly	09	POR		FSK8	125	1750	ALE, “CT1REP” – just for info
DARC	14344,0	0808	15	09	RUS		PSK2	120	2600	AT3004D - Moscow
DARC	14344,6	vt	dly	09	CHN		serial	2400	2500	MIL-188-110A - East China
DARC	14346,0	vt	dly	09	D	DK0ESD	FSK8	125	1750	ALE, “DK0ESD” “F4BXW” “CT1REP”- just for info
DARC	14349,0	vt	dly	09	CHN	no ITU	FSK8	125	1750	ALE, “132” “788” “559”
DARC	14349,5	1254	19	09	RUS		F1B	75	250	
DARC	18100,0	0645	30	09	CYP		P0N			OTH Radar Cyprus, 50 pps
DARC	18107,0	vt	dly	09	RUS	RDL	F1B	50	250	Russian Navy - Moscow
DARC	18130,0	0716	20	09	RUS		F1B	100	1000	harmonic from 9065 (500 Hz shift)
DARC	21000,0	vt	dly	09						frequency hopper
DARC	21000,0	vt	dly	09	ALG		FSK8	125	1750	ALE, “BJ80”
DARC	21001,5	0800	05	09	RUS		F1B	100	150	Yakhta synchro - north of Jekaterinburg - daily
DARC	21025,0	2003	14	09						frequency hopper
DARC	21070,0	0821	11	09						frequency hopper
DARC	21075,0	0834	28	09	TUR		P0N		20k	OTH Radar, 50 pps – area of Istanbul
DARC	21090,0	0850	13	09			P0N		20k	OTH Radar Cyprus, 50 pps
DARC	21095,0	0649	24	09	CYP		P0N		20k	OTH Radar Cyprus, 50 pps
DARC	21100,0	0703	29	09	TUR		P0N		20k	OTH Radar, 50 pps – area of Istanbul
DARC	21145,7	ady	dly	09	I	IZ3DVW	A1A			IZ3DVW - uncoordinated and unwanted beacon
DARC	21150,0	0726	11	09	CYP		P0N		10k	OTH Radar Cyprus, 25 pps
DARC	21160,0	0843	18	09						frequency hopper
DARC	21180,0	0942	23	09						frequency hopper
DARC	21190,0	1606	30	09	TUR		P0N		20k	OTH Radar Istanbul, 50 pps, splattering over +/- 30 kHz
DARC	21205,0	1014	30	09	TUR		P0N		20k	OTH Radar Istanbul, 50 pps, splattering over +/- 30 kHz
DARC	21236,0	0840	01	09						frequency hopper
DARC	21260,0	0930	30	09	FEa		P0N		10k	Far East OTH Radar – 31.25 - 33.33 - 35.71 - 45.45 pps
DARC	21300,0	1428	16	09	TUR		P0N		20k	OTH Radar East-Turkey, 50 pps, splattering over +/- 30 kHz
DARC	21310,0	1009	27	09			P0N		20k	OTH Radar Cyprus, 50 pps
DARC	21324,0	1407	23	09	RUS		F1B	75	250	harmonic from 10662,0
DARC	21409,5	0905	07	09	RUS		F1B	100	2000	harmonic from 10704,75 (1000 Hz shift) - Jekaterinburg
DARC	25000,0	ady	dly	09	FIN		A3E			time signal – Helsinki – (due to Sporadic-E) just for info!

IRTS – Ireland – EI4GXB (Ger)

KARS – Kuwait – 9K2RR (Faisal)



## MRASZ – Hungary - HA7PL (Laci)

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	DETAILS
MRASZ	7000,0	VT	VD	9	FSK8 (ALE)	LBY	LYB	125	1750	HQ3 CALLED GHADAMES
MRASZ	7000,0	VT	VD	9	FSK8 (ALE)	USA	UiMUX	125	1750	EAGLE, R01659, R00071, R00090, R00109, R01659, R27060, R92305, MEDOPS, VENT04, VENT11
MRASZ	7000,0	VT	VD	9	FSK8 (ALE)	Ui	UiMUX	125	1750	STORM SOUNDING. UNID
MRASZ	7000,0	VT	VD	9	FSK8 (ALE)	Ui	UiMUX	125	1750	T5L1 – 1XV7, 1ZC5, 6GY2. UNID NEWCOMER.
MRASZ	7000,0	VT	VD	9	FSK8 (ALE)	I	UiMUX	125	1750	ITALIAN CARABINIERI NET 2214 SOUNDED
MRASZ	7010,0	VT	VD	9	FSK8 (ALE)	NATO	UiMUX	125	1750	NATO Consultation, Command and Control Agency CS-RS NETWORK
MRASZ	7011,0	VT	VD	9	FSK8 (ALE)	Ui	UiMUX	125	1750	YW5 – TXZ4
MRASZ	7014,0	VT	VD	9	FSK8 (ALE)	Ui	UiMUX	125	1750	4411, 4412, 4415, SOUNDING AND CONECT.
MRASZ	7020,0	VT	VD	9	FSK8 (ALE)	Ui	UiMUX	125	1750	NATO Consultation, Command and Control Agency CS-RS NETWORK
MRASZ	7026,0	VT	VD	9	FSK8 (ALE)	Ui	UiMUX	125	1750	642, 431 – 314 UNID
MRASZ	7045,0	VT	VD	9	FSK8 (ALE)	Ui	UiMUX	125	1750	1001, 1005, 1009, 1014 SOUNDING, 2001,2003, 2004, 2006, 2007, 2008 unid
MRASZ	7051,0	VT	VD	9	FSK8 (ALE)	Ui	UiMUX	125	1750	110-NET UZBEK FORCES ( 1105)
MRASZ	7055,0	VT	VD	9	FSK8 (ALE)	Ui	UiMUX	125	1750	TCH – XIC. UNID
MRASZ	7055,0	VT	VD	9	FSK8 (ALE)	Ui	UiMUX	125	1750	131,132, 154, 155, 168. UNID.
MRASZ	7061,0	VT	VD	9	FSK8 (ALE)	Ui	UiMUX	125	1750	3314, 3315. UNID
MRASZ	7070,0	VT	VD	9	FSK8 (ALE)	GEO	UiMUX	125	1750	244-NET: 244 – 00, 204, 334, 514, 686, 494, 571, 288
MRASZ	7080,0	VT	VD	9	FSK8 (ALE)	ALB	UiMUX	125	1750	5810 SOUNDING.
MRASZ	7090,0	VT	VD	9	FSK8 (ALE)	Ui	UiMUX	125	1750	4001 UNID.
MRASZ	7090,0	VT	VD	9	FSK8 (ALE)	Ui	UiMUX	125	1750	154892 UNID.
MRASZ	7092,0	VT	VD	9	FSK8 (ALE)	I	UiMUX	125	1750	ITALIAN CARABINIERI TRAFFIC, BIG ACTIVITY: 2010, 2011, 2012, 2013, 1020, 2014, 2015, 2016, 5010, 5012, 5025, 5022, 4011, 4015, 4017,4015, 4017)

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	DETAILS
<b>MRASZ</b>	7095,0	VT	VD	9	FSK8 (ALE)	UZB	UiMUX	125	1750	110-NET (1101, 1102, 1103, 1104, 1105, 1703, 1706, 1714) UZBEK FORCES
<b>MRASZ</b>	7100,0	VT	VD	9	FSK8 (ALE)	Ui	UiMUX	125	1750	0710 – 0709.
<b>MRASZ</b>	7100,0	VT	VD	9	FSK8 (ALE)	Ui	UiMUX	125	1750	5691 SOUNDING
<b>MRASZ</b>	7100,0	VT	VD	9	FSK8 (ALE)	Ui	UiMUX	125	1750	0710 – 0709.
<b>MRASZ</b>	7100,0	VT	VD	9	FSK8 (ALE)	Ui	UiMUX	125	1750	1001 – 0899
<b>MRASZ</b>	7102,0	VT	VD	9	FSK8 (ALE)	Ui	UiMUX	125	1750	LOTS OF LEGAL AMATEUR TRAFFIC.
<b>MRASZ</b>	7107,0	VT	VD	9	FSK8 (ALE)	Ui	UiMUX	125	1750	200101, 437805, 437807, 437815 SOUNDING.
<b>MRASZ</b>	7107,0	VT	VD	9	FSK8 (ALE)	Ui	UiMUX	125	1750	9200 UNID.
<b>MRASZ</b>	7115,0	VT	VD	9	FSK8 (ALE)	Ui	UiMUX	125	1750	5070 SOUNDING. UNID.
<b>MRASZ</b>	7115,0	VT	VD	9	FSK8 (ALE)	Ui	UiMUX	125	1750	1001 – 0899, 9001 SOUNDING.
<b>MRASZ</b>	7116,0	VT	VD	9	FSK8 (ALE)	UZB	UiMUX	125	1750	110-NET UZBEK FORCES (1102, 1103, 1104, 1105, 1106, 1701, 1703, 1704, 1705, 1706, 1707, 1708, 1709, 1711, 1712, 1713, 1714)
<b>MRASZ</b>	7140,0	VT	VD	9	FSK8 (ALE)	UZB	UiMUX	125	1750	110-NET UZBEK FORCES (1102, 1103, 1104, 1105, 1106, 1701, 1703, 1704, 1705, 1706, 1707, 1708, 1709, 1711, 1712, 1713, 1714)
<b>MRASZ</b>	7141,0	VT	VD	9	FSK8 (ALE)	Ui	UiMUX	125	1750	7801, 7863. UNID.
<b>MRASZ</b>	7149,0	VT	VD	9	FSK8 (ALE)	ALB	UiMUX	125	1750	5810 SOUNDING.
<b>MRASZ</b>	7165,0	VT	VD	9	FSK8 (ALE)	Ui	UiMUX	125	1750	735, 180, 722, 450. unid
<b>MRASZ</b>	7197,0	VT	VD	9	FSK8 (ALE)	Ui	UiMUX	125	1750	3011, 3061, 3062, 3161, 3165, 3211, 3251, 3421, 3541, 3551, 3651, 8011, 8031, 8061, 8161, 8211, 8251, 8341, 8351, 8551, 9850. SOUNDING.
<b>MRASZ</b>	7197,0	VT	VD	9	FSK8 (ALE)	Ui	UiMUX	125	1750	43401, 43402, 83401 SOUNDING.
<b>MRASZ</b>	7197,0	VT	VD	9	FSK8 (ALE)	Ui	UiMUX	125	1750	123456, 123466 SOUNDING.
<b>MRASZ</b>	7197,0	VT	VD	9	FSK8 (ALE)	Ui	UiMUX	125	1750	206102. NEW UNID.
<b>MRASZ</b>	14000,0	VT	VD	9	FSK8 (ALE)	G	UiMUX	125	1750	CROSPR SOUNDED. RAF Croughton(AFSCN) Remote Tracking Station USAF
<b>MRASZ</b>	14000,0	VT	VD	9	FSK8 (ALE)	Ui	UiMUX	125	1750	1010 SOUNDING. UNID.
<b>MRASZ</b>	14000,0	VT	VD	9	FSK8 (ALE)	Ui	UiMUX	125	1750	1640 – 1840. UNID

**OEVSV – Austria – OE3DMA (Alex)****PZK – Poland – SP3UZ (Wladyslaw)****REP – Portugal – CT4AN (Jose Francisco) and CT1JTQ (Angelo)****RSGB - Great Britain – G4BOH (Chris)****SRAL – Finland – OH2BLU (Pekka)**

<b>Society</b>	<b>kHz</b>	<b>UTC</b>	<b>DD</b>	<b>MM</b>	<b>ITU</b>	<b>IDENT</b>	<b>MODE</b>	<b>BD</b>	<b>SH</b>	<b>REMARKS</b>
SRAL	6999,0	1300-1330	12, 13	9		UiMUX	J7D	12x120	12x200	Carrier on 7000,3
SRAL	7000,0	1130-1500	22	9		UiMUX	J7D	12x120	12x200	
SRAL	7013,0	0500-1600	2, 3	9		UiMUX	J7D	12x120	12x200	
SRAL	7015,0	0440	23	9		UiPTR	F1B			
SRAL	7016,0	1130-1400	6,16, 22	9		UiPTR	F1B		250	
SRAL	7020,0	1245-1400	*	9		UiPTR	F1B		250	Days 2, 6, 13, 16
SRAL	7026,0	1210-1420	30	9		UiMUX	J7D	12x120	12x200	
SRAL	7030,0	0600-0900	*	9		UiPTR	F1B		250	Days 21, 23, 28
SRAL	7034,0	0740	24	9		UiMUX	J7D	12x120	12x200	
SRAL	7035,0	1620-1745	29	9		UiPTR	F1B		250	
SRAL	7037,7	0915-1040	28	9		UiPTR	F1B			
SRAL	7038,7	0330-1930	dly	9	UKR	D	A1A			Sevastopol
SRAL	7038,8	0500-2100	1-21	9	RUS	P	A1A			Kaliningrad
SRAL	7038,9	h24	dly	9	RUS	S	A1A			Severomorsk
SRAL	7039,0	h24	dly	9	RUS	C	A1A			Moscow
SRAL	7044,0	0600-1300	18, 29	9	RUS	UiPTR	F1B			
SRAL	7049,0	0730-1210	*	9		UiPTR	F1B		200/227	Days 9, 15, 20, 27
SRAL	7052,0	1800-1840	*	9	RUS	UiPTR	F1B		250	Days 16, 27, 30
SRAL	7054,0	0400-0700	dly	9	RUS	REA4	F1B		200	25 Hz dotter
SRAL	7054,0	1700-2100	dly	9	RUS	REA4	F1B		200	25 Hz dotter
SRAL	7055,5	1645-1800	28	9	RUS	OTHR	P0N			37,5 Hz, 5 kHz wide, east of Moscow
SRAL	7059,0	0230-1330	21	9		UiPTR	F1B		225	
SRAL	7061,0	0540	30	9		UiMUX	J7D	12x120	12x200	
SRAL	7080,0	0530-1900	22-30	9		UiPTR	F1B		200	Kaliningrad
SRAL	7185,0	0645	22	9		UiCW	A1A			MR 5F
SRAL	7088,5	0515-0545	6	9		UiPTR	F1B		600	
SRAL	7111,0	1245-1330	13	9		UiPTR	F1B			
SRAL	7111,0	00430-0500	29	9		UiPTR	F1B			
SRAL	7113,0	0915	17	9		UiMUX	J7D	12x120	12x200	
SRAL	7113,0	1845	30	9		UiMUX	J7D	12x120	12x200	
SRAL	7114,0	1500-1815	22	9		UiPTR	F1B		200	
SRAL	7116,0	0730-	16	9		UiPTR	F1B			

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	REMARKS
		0830								
SRAL	7117,0	1300-2130	dly	9	RUS	REA4	F1B		1000	
SRAL	7118,0	0645	30	9		UiMUX	J7D	12x120	12x200	
SRAL	7121,0	0810	9	9		UiMUX	J7D	12x120	12x200	
SRAL	7122,0	0440-1400	*	9	RUS	UiPTR	F1B		250	Days 16, 28, 29, Smolensk
SRAL	7125,0	1520-1800	17, 22	9	ERI	VoBME	A3E			jammed
SRAL	7127,0	0430	1	9	RUS	UiCW	A1A			MR 5F
SRAL	7130,0	1500-1800	*	9	ERI	VoBME	A3E			Jammed, days 4, 5, 6, 11, 12, 19, 20, 24 - 30
SRAL	7130,0	0510-0535	6	9	KWT	R Kuwait	A3E			
SRAL	7140,0	1500-1840	*	9	ERI	VoBME	A3E			Jammed, days 1 - 3, 7, 9 - 11, 13, 15, 17, 30
SRAL	7145,0	1500-1815	*	9	ERI	VoBME	A3E			Jammed, days 12, 15, 20, 23, 26, 28, 30
SRAL	7149,5	0400-0430	10	9	RUS	UiPTR	F1B			Murmansk
SRAL	7160,0	1500-1800	4. 6, 13	9	ERI	VoBME	A3E			jammed
SRAL	7162,0	0500-1100	11-28	9	RUS	UiPTR	F1B		250	Moscow
SRAL	7164,0	1130-1200	7	9		UiMUX	J7D	12x120	12x200	
SRAL	7165,0	0400-0500	dly	9	ERI	VoBME	A3E			jammed
SRAL	7165,0	1400-1930	dly	9	ERI	VoBME	A3E			jammed
SRAL	7170,0	1500-1930	7,16	9	ERI	VoBME	A3E			jammed
SRAL	7171,0	1000-1500	23	9		UiMUX	J7D	12x120	12x200	
SRAL	7172,0	0400-0515	*	9	ERI	VoBME	A3E			Jammed, days 21, 24, 25, 29, 30
SRAL	7172,0	1400-1900	*	9	ERI	VoBME	A3E			Jammed, days 21, 24, 25, 29, 30
SRAL	7175,0	1400-1930	dly	9	ERI	VoBME	A3E			Jammed
SRAL	7176,0	0650-0800	28	9		UiPTR	F1B		250	25 Hz dotter
SRAL	7178,0	1300-1530	11, 21	9		UiMUX	J7D	12x120	12x200	
SRAL	7179,0	1030-1100	5	9		UiPTR	F1B		200	
SRAL	7181,0	1330-1500	10	9		UiMUX	J7D	12x120	12x200	
SRAL	7184,0	0850-1830	22, 29	9	RUS	UiPTR	F1B			Murmansk
SRAL	7186,0	0330-1530	*	9		UiMUX	J7D	12x120	12x200	Days 1 - 3, 27, 29
SRAL	7188,0	0800-1630	*	9	RUS	UiPTR	F1B		250	Days 11, 12, 19, 27, 30, Moscow
SRAL	7190,0	1200-1630	8,12, 24	9		UiMUX	J7D	12x120	12x200	
SRAL	7195,0	1500-1800	*	9	ERI	VoBME	A3E			Jammed, days 1 - 4, 11, 21
SRAL	7196,0	0635	15	9		UiPTR	F1B		200	
SRAL	7198,0	0645	29	9		UiMUX	J7D	12x120	12x200	
SRAL	7200,0	0230-0600	Dly	9	RUS	R. Rossii	A3E			
SRAL	7200,0	1000-1300	dly	9	KRE		A3E			Pyongyang
SRAL	7200,0	1200-2130	dly	9	SDN	R Sudan	A3E			
SRAL	10130,0	0610	26	9		OTHR	P0N			50 Hz pulses



Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	REMARKS
SRAL	10140,0	1315	26	9		OTHR	P0N			50 Hz pulses
SRAL	10145,0	0750-0830	11	9		OTHR	P0N			50 Hz pulses
SRAL	14006,0	0550-1315	*	9		UiPTR	F1B		250	Days 10, 14, 28, 30
SRAL	14008,0	0915-1000	10	9		UiMUX	J7D	12x120	12x200	
SRAL	14008,0	0800-0805	16	9		UiPTR	F1B		500	
SRAL	14024,0	1045	10	9	RUS	UiPTR	F1B			
SRAL	14026,0	0600-1030	*	9	RUS	UiMUX	J7D	12x120	12x200	Days 10, 13, 16, Moscow
SRAL	14081,0	0645-0840	23	9		UiPTR	F1B		250	
SRAL	14091,0	0630	21	9		UiMUX	J7D	12x120	12x200	
SRAL	14133,0	0855	23	9		UiPTR	F1B			
SRAL	14150,0	0705	28	9		OTHR	P0N			50 Hz pulses, 20 kHz wide
SRAL	14160,0	0555-1315	*	9	RUS	UiPTR	F1B		250	Days 8, 10, 26, Velikie Luki
SRAL	14180,0	0645-1340	21-23	9	RUS	RDL	F1B		250	
SRAL	14192,0	0800	18	9		UiPTR	F1B			
SRAL	14240,0	0705-1315	26	9		UiPTR	F1B		250	
SRAL	14268,0	0905	15	9		UiMUX	J7D	12x120	12x200	
SRAL	14294,0	0755	5	9		UiMUX	J7D	12x120	12x200	
SRAL	14270,0	0550	30	9		UiPTR	F1B		500	50 Hz dotter
SRAL	14271,0	0630	21	9		UiMUX	J7D	12x120	12x200	
SRAL	14291,0	0630-1015	*	9		UiMUX	J7D	12x120	12x200	Moscow
SRAL	14293,5	0850	1	9		UiPTR	F1B		1000	
SRAL	14295,1	0330-2100	dly	9	TJK	R Tojikiston	A3E			3f 4765,05 kHz, Yangiyul TX
SRAL	14342,0	0955-1205	23	9		UiPTR	F1B			
SRAL	21100,0	0620	24	9		OTHR	P0N			50 Hz pulses
SRAL	21320,0	1015	27	9		OTHR	P0N			50 Hz pulses

## USKA – Switzerland – HB9CET (Peter)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	6998.0	1714	30	09			J3E-U			splattering > 7000 kHz
USKA	7000.0	1643	01	09			N0N			permanent carrier daily
USKA	7000.0	1644	01	09		HQ3	MFSK8	125	1750	MIL 188-141A daily to: GHADAMES
USKA	7000.0	1754	01	09		EAGLE	MFSK8	125	1750	MIL 188-141A often
USKA	7000.0	2134	09	09			J3E-U			Spanish
USKA	7000.0	1759	13	09		STORM	MFSK8	125	1750	MIL 188-141A; also heard at 1830, 1900, 2031, 2101
USKA	7000.0	1101	24	09			J3E-U			weak; unid language
USKA	7000.0	1659	24	09		MEDOPS	MFSK8	125	1750	MIL 188-141A often
USKA	7000.0	1701	28	09		VENT04	MFSK8	125	1750	MIL 188-141A
USKA	7000.0	1544	30	09			J3E-U			French
USKA	7001.8	1002	08	09			PSK-8	2400	2700	MIL 188-110A
USKA	7006.6	1535	24	09					~2500	frequency Hopper, (Panther-H ?)
USKA	7010.0	1716	12	09			J7D	12x120	2600	CIS12
USKA	7015.875	1329	13	09			N0N			maybe from unstable F1B/F1A
USKA	7016.0	1331	13	09			F1A		250	unid, unstable, very short F1B
USKA	7016.0	1239	16	09			F1B	75	250	unid
USKA	7026.0	1342	30	09			J7D	12x120	2600	PSK-2: CIS 12 = AT3004D
USKA	7030.0	1504	24	09			F1B	81	250	CIS 81
USKA	7038.7	1708	30	09	UKR	D	A1A			Beacon D Sevastopol daily

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	7038.8	1357	01	09	RUS	P	A1A			Beacon P Kaliningrad daily
USKA	7038.9	1358	01	09	RUS	S	A1A			Beacon S Murmansk daily
USKA	7039.0	1359	01	09	RUS	C	A1A			Beacon C Moscow daily
USKA	7039.4	1400	01	09	RUS	M	A1A			Beacon M Magadan daily
USKA	7048.0	1943	09	09			X0N	66.66 pps	10 kHz	Burst duration 3.84", every 23" 66.66Hz (15ms), over hours
USKA	7050.0	1533	28	09					~2500	frequency hopper, (Panther-H ?)
USKA	7054.0	2154	01	09			F1B	50	200	unid daily
USKA	7054.0	2058	07	09			F1B	50	120	unid
USKA	7054.0	1728	10	09			F1B	50	200	back with 200 Hz!
USKA	7054.0	2013	27	09			F1B	50	120	unid
USKA	7054.0	2109	30	09			F1B	50	120	unid
USKA	7055.0	1451	28	09			P0N	26ms	~5 kHz	OTHR (26ms = 38.46pps)
USKA	7079.895	1914	27	09			A1A			Jammer, endless V and K only
USKA	7080.0	1351	27	09			F1B	50	200	unid daily
USKA	7080.0	1948	27	09			F1A		200	numbers in group's of 5
USKA	7105.0	2253	08	09			A3E			BC: 2 stations (Chinese) daily
USKA	7113.0	1013	17	09			J7D	12x120	2600	PSK-2: CIS 12 = AT3004D
USKA	7116.7	2024	08	09			N0N			unid
USKA	7117.014	1358	01	09			F1B	50	1030	unid (strong) also F1A daily
USKA	7120.0	1205	01	09			A3E			Russian, Numberstation "Gag ?"
USKA	7121.0	1208	01	09			J7D	12x120	2600	PSK-2: CIS 12 = AT3004D
USKA	7130.0	1522	24	09			A3E			BC unid (jammed) often
USKA	7130.0	1523	24	09			Noise		10 kHz	Jammer often
USKA	7135.0	1649	16	09			Noise		10 kHz	Jammer almost daily
USKA	7140.0	1544	01	09			Noise		10 kHz	Jammer almost daily
USKA	7140.0	1721	10	09	ERI		A3E			Voice of Broad Masses daily
USKA	7145.0	1549	12	09			Noise		10 kHz	Jammer often
USKA	7145.0	1728	12	09			A3E			BC unid
USKA	7145.5	2027	08	09			J7D	12x120	2600	PSK-4: CIS 12 = AT3104D
USKA	7159.300	1925	28	09			A1A			Endless text loop, no callsign
USKA	7162.0	1216	01	09			F1B	75	250	unid almost daily
USKA	7162.0	1509	24	09			F1B	100	250	unid
USKA	7162.0	1510	24	09			F1A			unid
USKA	7164.3	1926	27	09			A1A			unid often
USKA	7165.0	1542	01	09			A3E			Voice of Broad Masses daily
USKA	7165.0	1716	10	09			Noise		10 kHz	Jammer often
USKA	7170.0	1715	16	09			Noise		10 kHz	Jammer often
USKA	7172.0	1823	17	09			A3E			BC, unid often
USKA	7172.5	2122	13	09			OFDM	37.5	2400	unid
USKA	7175.0	1541	01	09	ERI		A3E			Voice of Broad Masses daily
USKA	7175.0	1651	12	09			Noise		10 kHz	Jammer almost daily
USKA	7181.625	1520	24	09			N0N			unid
USKA	7186.0	1344	27	09			J7D	12x120	2600	PSK-4: CIS 12 = AT3104D
USKA	7186.0	2102	28	09			J7D	12x120	2600	PSK-2: CIS 12 = AT3004D
USKA	7187.0	1347	27	09			F1B	100	250	unid
USKA	7188.0	1036	17	09			F1B	75	250	unid
USKA	7195.0	1543	01	09			A3E			BC unid, weak
USKA	7198.0	1736	28	09			J7D	12x120	2600	PSK-4: CIS 12 = AT3104D
USKA	7200.0	1846	10	09			A3E			BC down to 7195 kHz daily
USKA	10139.0	1310	10	09			x0N	50 pps	20 kHz	OTHR 50pps 10139up
USKA	14001.375	1454	09	09			FSK-4	150		2x880Hz Baudot
USKA	14006.0	1206	07	09			F1B	75	250	unid
USKA	14006.0	0943	24	09			J7D	12x120	2600	PSK-2: CIS 12 = AT3004D
USKA	14026.0	1001	16	09			J7D	12x120	2600	PSK-2: CIS 12 = AT3004D
USKA	14052.0	1213	16	09			J7D	12x120	2600	PSK-2: CIS 12 = AT3004D
USKA	14122.0	1338	17	09			J7D	12x120	2600	PSK-2: CIS 12 = AT3004D
USKA	14160.0	0901	08	09			F1B	75	250	unid
USKA	14211.0	1841	24	09			F1B	50	250	unid
USKA	14242.0	0902	08	09			J7D	12x120	2600	PSK-2: CIS 12 = AT3004D
USKA	14294.0	0951	24	09			J7D	12x120	2600	PSK-2: CIS 12 = AT3004D
USKA	14301.9	0904	08	09			OFDM60	30	2800	Spacing 44.5 Hz Pilot at 3300 Hz
USKA	14312.0	0921	24	09			A1A			no ham, short overs, "cyrillic"
USKA	14334.0	0831	14	09			F1B	75	250	unid
USKA	18107.0	0844	14	09			F1B	50	200	
USKA	18107.0	0848	14	09			F1A		200	unid
USKA	18107.0	1127	17	09			F1B	36	250	CIS 36-50 (= BEE, T600) daily

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	18107.0	1129	17	09			F1B	50	250	CIS 36-50 (= BEE, T600) daily
USKA	21000.0	1138	13	09			J3E		2600	Vocoder often
USKA	21000.0	1337	14	09			x0N	50 pps	20 kHz	OTHR 50pps 20010 up
USKA	21001.5	1129	13	09			F1B	100	150	unid almost daily
USKA	21336.98	1534	28	09			NON			unid carrier, over hours

### Veron 1 – Netherlands – PA0GRU (Dick)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	DETAILS
VERON	3732,0	19.49	4	9			PSK8		Stanag
VERON	7054,0	18.27	22	9	RUS	REA4	F1B	200	Revs/Ptr, also 28/9
VERON	7054,0	18.45	28	9	RUS	OTHR	PON		radar, loc. Kaliningrad 4/5 Khz wide
VERON	7054,0	17.50	29	9	RUS	REA4	F1B	200	Revs, Russian Airforce
VERON	7080,0	08.17	30	9		UiPtr	F1B	250	Ptr, jamming by hams
VERON	7116,0	19.04	3	9	RUS	UiPtr	F1B	200	Ptr
VERON	7117,0	17.58	29	9	RUS	REA4	F1B	1K	Ptr, Russian Airforce Moscow
VERON	7123,0	13.29	5	9	UK	UiILL	J3E-u		UK/Scottish male-non amateur
VERON	7153,0	07.00	8	9	RUS	UiILL	J3E-u		male voice, Russian, non amateur
VERON	7165,0	18.58	10	9		UiBC	A3E		music+speech, also 15/9
VERON	7165,0	18.44	28	9		UiBC	A3E		speech+music
VERON	7165,0	vt	vd	9		UiJAM			white noise
VERON	7175,0	18.50	9	9		UiBC	A3E		music+speech
VERON	7178,0	14.55	11	9		UiMUX	PSK		12 MPSK AT 3004-D
VERON	7184,0	17.47	29	9	RUS	UiPtr	F1B	200	Ptr, Murmansk
VERON	7193,0	19.16	8	9	E	UiILL	J3E-u		Spanish male, fishery
VERON	7200,0	18.51	9	9	RUS	UiBC	A3E		speech+music Rus (no splatter)
VERON	14006,0	09.52	10	9		UiPtr	F1B	200	Ptr
VERON	14006,0	10.54	28	9		UiPtr	F1B	250	Ptr
VERON	14007,0	09.54	10	9		UiMUX	PSK		12 MPSK AT 3004-D
VERON	14008,0	09.31	19	9	RUS	UiPtr	F1B	250	Ptr, harmful during SAC CW contest
VERON	14008,0	08.09	30	9		UiPtr	F1B	1K	Ptr
VERON	14024,0	11.00	16	9	RUS	UiMUX	PSK		12 MPSK AT 3004-D, Rus. Navy
VERON	14026,0	09.55	10	9		UiMUX	PSK	2600	12 MPSK AT 3004-D
VERON	14037,0	10.00	6	9		UiPtr	F1B	250	Ptr
VERON	14037,0	08.57	13	9		UiPtr	F1B	250	Ptr
VERON	14120,0	10.01	20	9		UiPtr	F1B	250	Ptr
VERON	14142,0	09.03	21	9		UiPtr	F1B		Revs
VERON	14148,0	07.07	28	9		OTHR	PON		radar
VERON	14160,0	09.56	5	9		OTHR	PON		harmful
VERON	14160,0	06.57	8	9		UiPtr	F1B	250	Ptr
VERON	14160,0	09.51	10	9		UiPtr	F1B	250	Ptr
VERON	14192,0	18.53	4	9	RUS	UiPtr	F1B	200	Ptr Rus Navy
VERON	14233,0	08.35	8	9		OFDM			OFDM
VERON	14240,0	08.21	8	9	RUS	UiMUX	PSK2		12 MPSK AT 3004-D
VERON	14269,0	09.05	21	9		UiPtr	F1B	250	Ptr
VERON	14289,0	09.00	17	9	RUS	OFDM		2800	
VERON	14332,0	08.27	29	9		OTHR	PON	V	radar, wide 14329/ 14338 Khz
VERON	18107,0	10.05	20	9		UiPtr	F1B	250	Ptr
VERON	18161,0	15.10	19	9	Mea	UiILL	J3E-u		Arabic male voices
VERON	21001,0	09.53	13	9	RUS	UiPtr	F1B	150	Ptr
VERON	21003,0	12.56	14	9		OTHR	PON		radar
VERON	21260,0	08.01	30	9		OTHR	PON		short bursts

### Veron 2 – Netherlands – PA0GRU (Dick)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	DETAILS
VERON	3552,0	18.18	30	9	CIS	UiCW	F1A		5F (followed by: Revs)
VERON	3568,0	18.17	30	9		UiPTR	F1B		Ptr
VERON	7038,6	22.30	12	9	UKR	D	A1A		Beacon Sevastopol

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	DETAILS
VERON	7038,7	22.29	12	9	RUS	P	A1A		Beacon Kaliningrad
VERON	7038,8	vt	vd	9	RUS	P	A1A		P-beacon
VERON	7038,8	22.29	12	9	RUS	S	A1A		Beacon Murmansk
VERON	7038,9	vt	vd	9	RUS	S	A1A		S-beacon
VERON	7038,9	22.29	12	9	RUS	C	A1A		Beacon Moscow
VERON	7039,0	vt	vd	9	RUS	C	A1A		C-beacon
VERON	7039,4	17.53	1	9	CIS	M	A1A		M-beacon
VERON	7054,0	vt	vd	9		UiPTR	F1B		Revs
VERON	7054,0	17.35	11	9		UiMux	PSK2	150	
VERON	7054,0	19.57	12	9		UiMux	PSK2	150	
VERON	7080,0	16.34	23	9		UiPTR	F1B		Revs/Ptr
VERON	7105,0	22.35	11	9		UiBC	A3E		2 BC stns same frequency;Chinese lang.
VERON	7105,0	22.25	12	9		UiBC	A3E		2 BC stns same frequency;Chinese lang.
VERON	7114,0	16.33	23	9		UiPTR	F1B		Revs/Ptr
VERON	7116,0	vt	vd	9		UiPTR	F1B		Revs
VERON	7116,5	19.25	11	9		UiPtr	F1B	1k	Revs
VERON	7116,5	19.48	12	9		UiPtr	F1B	1k	Revs
VERON	7117,5	17.50	1	9		UiPTR	F1B		Revs
VERON	7140,0	17.30	11	9		Jam			Noise jammer, 30k spread
VERON	7165,0	17.27	11	9		Jam			Noise jammer, 26k spread
VERON	7175,0	19.15	11	9	ERI	VBME	A3E		s8; male & female speech
VERON	7175,0	19.39	12	9	ERI	VBME	A3E		s7; male speech, Arabic
VERON	7200,0	19.13	11	9	SDN	R.Omdurman	A3E		s9; speech & African songs
VERON	10124,0	17.47	1	9		UiPTR	F1B		Revs/Ptr
VERON	10130,0	09.51	2	9		UiPTR	F1B		Ptr
VERON	14006,0	08.45	2	9		UiPTR	F1B		Ptr
VERON	14116,0	13.53	30	9					frequency hopper
VERON	14132,0	13.54	30	9					frequency hopper
VERON	14160,0	10.10	26	9		UiPTR	F1B		Ptr
VERON	14180,0	16.30	23	9		UiPTR	F1B		Revs/Ptr
VERON	14240,0	10.10	26	9		UiPTR	F1B		Ptr
VERON	14292,0	10.54	3	9		UiPTR	F1B		Ptr
VERON	14301,0	09.40	2	9	RUS	REA4	F1A		5F (followed by: Dotter)
VERON	14302,0	07.35	3	9		UiPTR	F1B		Ptr
VERON	18107,0	vt	vd	9		UiPTR	F1B		Revs/Ptr
VERON	21155,0	07.20	11	9		UiRadar	PON		OTHR 25pps, 25k spread
VERON	21332,0	13.41	30	9					frequency hopper
VERON	21427,0	13.42	30	9					frequency hopper
VERON	24963,0	13.33	30	9					frequency hopper
VERON	28058,0	13.22	30	9					frequency hopper
VERON	28279,0	13.26	30	9					frequency hopper
VERON	28315,0	12.41	29	9		UiRadar	PON		66,7 pps system; 2k6 spread
VERON	28327,0	13.27	30	9					frequency hopper
VERON	28406,0	13.29	30	9					frequency hopper
VERON	28516,0	13.32	30	9					frequency hopper

### Veron 3 – Netherlands – PA0GRU (Dick)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	DETAILS
VERON	7012,5	15.30	3	9		UiMUX	J7D		3 Khz wide, carrier on 7014,4 KHz
VERON	7036,3	07.15	vd	9		UiMUX	J7D		19.52 utc, 12 MPSK
VERON	7038,7	16.32	vd	9	UKR	D	A1A		20.20 utc, beacon, 7 days Rus.Navy
VERON	7038,8	07.18	vd	9	RUS	P	A1A		19.58 utc, beacon , 6 days
VERON	7038,9	07.18	vd	9	RUS	S	A1A		20.20 utc, beacon, 10 days
VERON	7039,0	07.18	vd	9	RUS	C	A1A		19.58 utc, beacon Moscow, 10 days
VERON	7039,2	17.14	6	9		F	A1A		beacon F,
VERON	7039,2	15.20	20	9	RUS	F	A1A		beacon F,
VERON	7039,2	16.40	29	9	RUS	F	A1A		beacon F,
VERON	7039,4	16.40	29	9	RUS	M	A1A		beacon M, loc. Madagan
VERON	7054,0	05.40	vd	9	RUS	UiPtr	F1B	250	20.26 utc, Revs/Ptr, 8 days,

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	DETAILS
									Rus.Airforce
VERON	7068,0	07.21	15	9		UiPtr	F1B	250	Ptr
VERON	7080,0	07.10	30	9	RUS	RDL	F1B	250	Ptr,Revs
VERON	7080,0	07.16	30	9	RUS	RDL	F1A	250	RDL 22222 86093 81526 etc 5F K
VERON	7080,0	07.22	30	9	RUS	REO	F1A	250	XXX REO 71721 22669 KULEK 48916101 k
VERON	7108,0	17.24	6	9		UiCW	A1A		strings of cyrillic letters and ZNN K
VERON	7114,0	18.55	23	9		UiPtr	F1B	250	Ptr, Revs
VERON	7117,0	13.10	vd	9	RUS	REA4	F1B	1K	20.02 utc, Revs/Ptr, 8 days
VERON	7162,0	07.08	15	9		UiPtr	F1B	250	Ptr
VERON	7188,0	15.03	11	9		UiPtr	F1B	250	Ptr
VERON	14006,0	06.04	2	9		UiPtr	F1B	250	Ptr
VERON	14071,5	05.50	vd	9		UiMUX	J7D		
VERON	14133,0	07.45	21	9		UiPtr	F1B	250	Ptr, Revs
VERON	14160,0	06.55	8	9		UiPtr	F1B	250	10.40 utc, switch off at 10.40 utc
VERON	14180,0	07.32	21	9	RUS	RDL	F1B	250	Ptr, Revs
VERON	14180,0	08.09	21	9	RUS	RDL	F1A	250	RDL 29381 40149 K
VERON	14180,0	17.15	23	9	RUS	RDL	F1B	250	Ptr, Revs
VERON	14180,0	18.05	23	9	RUS	RDL	F1A	250	XXX iii iii iii
VERON	14180,0	18.37	23	9	RUS	RDL	F1A	250	RDL 32168 51674 (3x)
VERON	14192,0	05.55	2	9		UiPtr	F1B	250	Ptr
VERON	14192,0	18.39	23	9		UiPtr	F1B	500	Revs
VERON	14211,0	07.12	27	9	RUS	RDL	F1B	250	Ptr, Revs
VERON	14211,0	07.20	27	9	RUS	RDL	F1A	250	RDL 22222 47814 etc, 5F K
VERON	14211,0	09.28	28	9	RUS	RDL	F1B	250	Ptr,Revs
VERON	14211,0	09.39	28	9	RUS	RDL	F1A	250	5F,Ends, K
VERON	14211,0	05.54	29	9	RUS	RDL	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 – Bad Bergzabern - Germany

FTS – Funktechnik Seipelt – Hoppegarten - Germany

German PTT (BNetzA = Federal Network Agency)

compiled and published by DK2OM