



# Monitoring System

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The monthly newsletter for Region 1

## December 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 ++ OEVS: 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. Moroccan fishery

Moroccan fishery was daily abusing 14000 kHz in USB like a telephone line. They only understand QRM, talking to them is wasted time.

## 2. Tamil fishery

Tamil fishery was daily audible on 14001 kHz in USB.

## 3. OTH radar from Russia

The OTH Radar from Russia was active between 7000 and 7200 kHz with burst transmissions on 5 different QRGs on Dec. 30<sup>th</sup>. The pulsrate was always 66.66 pulses/sec. The Cyprus OTH radar destroyed the 10 MHz-band every afternoon.

## 4. F1B harmonic emissions

I found many F1B-harmonics from Russian military systems on 21 MHz. More details I are described in my table. The signal quality of the fundamental and harmonic transmissions was very bad!

## 5. Algerian military on 14 MHz

Algerian military was daily transmitting on 14100 kHz in ALE (MIL188-141A), various times. TNX to DL8AAM for help.

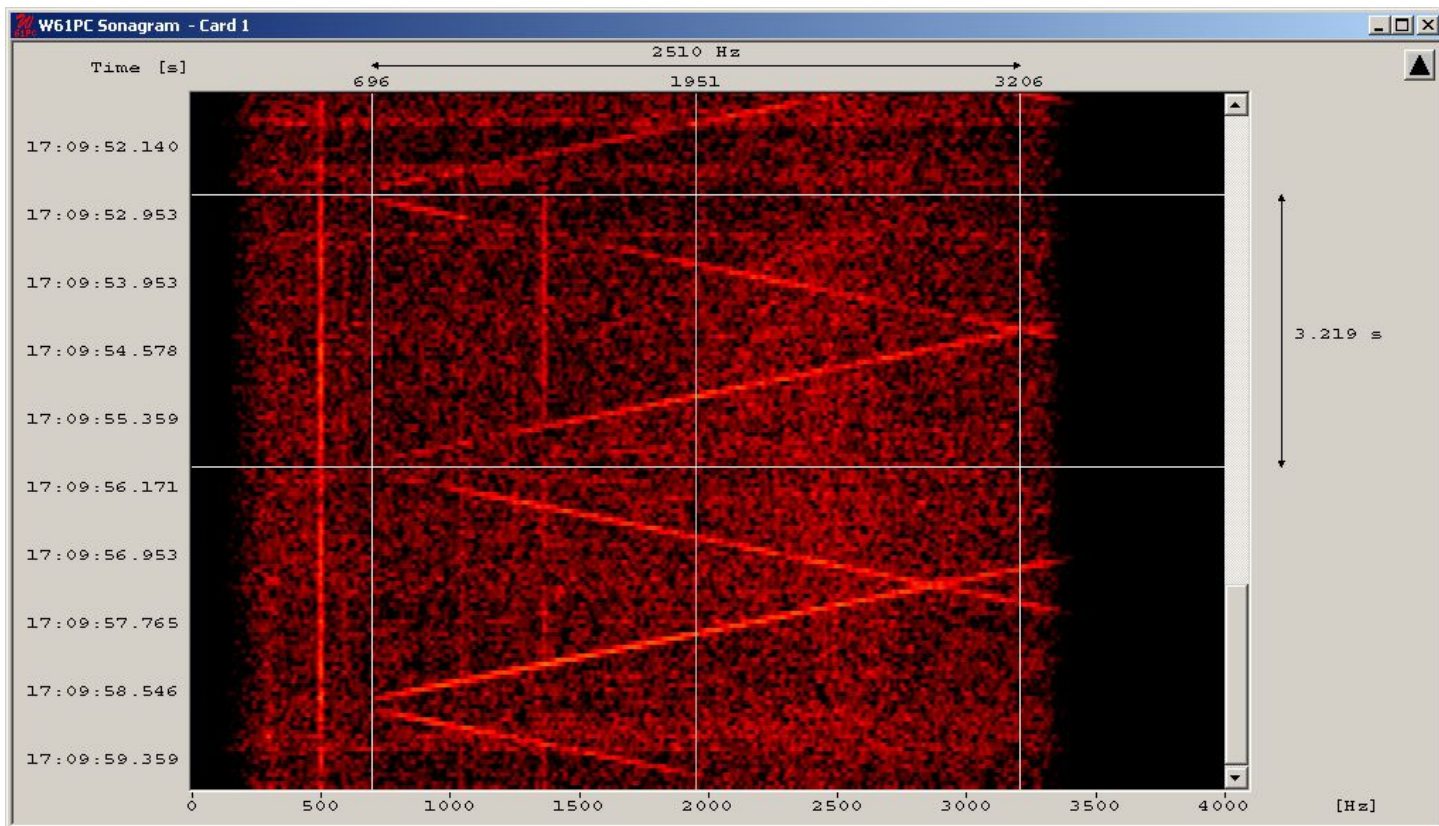
## 6. ALE on 7000 kHz

The ALE-system from Libya left 7000 kHz. The US military ALE from Iraq was still very active but with modified idents.

## 7. Mysterious sawtooth

HB9CET and DK2OM found a mysterious sawtooth emission on 7001.5 kHz (center) – 0.3 Hz and 2800 Hz wide on Dec. 29<sup>th</sup>. Bearings from the German PTT showed Israel. Perhaps a new kind of radar test? Thanks for observations and backfeed to HB9CET, OD5RI and DL8MCG. On Jan. 02<sup>nd</sup> the system disappeared. Screenshot below!

**Sawtooth generator on 7001.5 kHz center. 1<sup>st</sup> time found by HB9CET and DK2OM on Dec. 29<sup>th</sup> 2010. Perhaps a special continuous OTH radar with separate receivers. Location: Israel Sonagram with Wavecom W61.**



- 8. 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 \*\*\* SP = spacing \*\*\* Mode = mode of transmission \*\*\* A3E = AM \*\*\* A1A = CW \*\*\* J3E-U = USB \*\*\* J3E-L = LSB \*\*\* FSK (F1B) = frequency shift keying \*\*\* PSK = phase shift keying \*\*\* MPSK12 (J7D) = 12 channel phase shift keying \*\*\* ALE (MIL-188-141A) = automatic link establishment \*\*\* MUX = multiplex \*\*\* Ui (unid) = unidentified \*\*\* Illicit = illegal \*\*\* UiILL = unidentified illegal \*\*\* BC = broadcast \*\*\* MIL = military \*\*\* PTR = printer \*\*\* NGO = non governmental organization \*\*\* ITU = ITU country abbreviation \*\*\* PRC = People's Republic of China \*\*\* PLA = People's Liberation Army \*\*\* MFA = Ministry of Foreign Affairs \*\*\* MOI = Ministry of Interior \*\*\* MOPO = Ministry of Public Order \*\*\* IARUMS = IARU Monitoring System \*\*\* UTC = Universal Time Coordinated

### ARSK MONITORING OVERVIEW FOR DECEMBER 2010

A Happy and Prosperous New Year to all!

The reduced number of Somali intruders continued, for whatever reason. Propagation appears to be unlikely to be the cause, and one possibility is a clampdown on all radios by militant Islamic clerics. There has been no progress in taking Uganda Radio off 7195 kHz.

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

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### ARSK – Kenya – 5Z4NU (Ted)

H'd by	kHz	UTC	dd	mm	ITU	Identity	Mode	Details
ARSK	7008.0	vt	*	12	DRC	UiPHONE	J3E/u	Vernacular.*7,
ARSK	7011.0	1307	11	12	SOM	UiPHONE	J3Eu	Somalis.
ARSK	7020.0	0916	7	12	DRC	UiPHONE	J3Eu	Vernacular.
ARSK	7030.0	0842	11	12	DRC	UiPHONE	J3E	French, vernacular.
ARSK	7040.0	vt	*	12	DRC	UiPHONE	J3E	Vernacular.*7,
ARSK	7050.0	vt	*	12	DRC	UiPHONE	J3E	Vernacular.*6,
ARSK	7070.0	vt	*	12	DRC	UiPHONE	J3E/u	French, vernacular, Swahili.*11,
ARSK	7075.0	vt	*	12	DRC	UiPHONE	J3Eu	French, English, phonetics. *4,11,
ARSK	7092.0	vt	*	12	SOM	UiPHONE	J3E/u	Somalis.*7,
ARSK	7096.0	vt	*	12	SDN	UiPHONE	J3E	Phonetics. Vernacular and English.*4,
ARSK	7102.0				DRC	UiPHONE	J3Eu	Vernacular.
ARSK	7120.0	vt	*	12	ETH? ERI?	UiPHONE	A3E	Vernacular. Possibly VOBM or Addis Ababa. *5,6,7,
ARSK	7160.0	vt	*	12	?	UiBC	A2E	Fairly weak, unidentified language. *4,6,7,
ARSK	7165.0	vt	dly	12	ETH, ERI	Addis Ababa, VOBM?	A3E	Broadcast. Arabic, Amharic. Somali.
ARSK	7175.0	vt	*	12	ERI	VOBM?	A3E	Broadcast. *4,6,7,11,
ARSK	7185.0	vt	4	12	ERI?	VOBM?	A3E	Broadcast.
ARSK	7195.0	vt	dly	12	UGA	Kampala	A3E	Radio Uganda. Complaint lodged with UCC.
ARSK	7200.0	vt	dly	12	SDN	Khartoum	A3E	Broadcast in Arabic, Khartoum.

### DARC 1 – Germany – DJ9KR (Ui)

CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	Remarks and Comments
DARC	3500,0	1750	13	12	N.Eu	UiILL	J3E-U	Scandinavians
DARC	3500,0	1748	17	12		UiILL	J3E-U	unid voice traffic, Arabic?
DARC	3500,0	vt	vd	12	E	UiILL	J3E-U	Spanish fishery heard 05 07 at 1950, 2000
DARC	3506,0	2228	02	12	E	UiILL	J3E-U	Spanish fishery with Vocoder-CRY2001
DARC	3510,0	1856	07	12	F	UiILL	J3E-U	French fishery
DARC	3511,0	2150	02	12	E	UiILL	J3E-U	Spanish fishery with vocoder-CRY2001
DARC	3535,0	2014	14	12	E	UiILL	J3E-U	Spanish fishery
DARC	3535,0	vt	vd	12	HOL	UiILL	J3E-U	Dutch fishery heard 04 05 at 0826, 2220
DARC	3535,0	vt	vd	12	G	UiILL	J3E-U	UK fishery, heard 22 26 at 2032, 2039 - very

CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	Remarks and Comments
								obscene!
DARC	3540,0	1819	07	12	E	UiILL	J3E-U	Spanish fishery
DARC	3545,0	1929	01	12	G	UiILL	J3E-U	very obscene
DARC	3545,0	1953	08	12	G	UiILL	J3E-U	UK fishery
DARC	3550,0	0805	03	12	F	French Lis Amateurs	A3E	using AM in CW section, not good!
DARC	3550,0	2230	14	12	E	UiILL	J3E-U	Spanish fishery
DARC	3555,0	1745	13	12	F	UiILL	J3E-U	French fishery
DARC	3560,0	vt	07	12	N.Eu	UiILL	J3E-U	Scandinavians
DARC	3574,0	1422	02	12	E	UiILL	J3E-U	Spanish fishery with vocoder-CRY2001
DARC	3595,0	1430	12	12	CIS	UiILL	J3E-U	female person in Russian voice
DARC	3600,4	1650	31	12	F	French Lis Amateurs	A3E	French amateurs, AM in CW section
DARC	7000,0	1340	09	12	E	UiILL	J3E-U	Spanish fishery
DARC	7000,0	1810	13	12	TUR	UiILL	J3E-U	male voices in Turkish
DARC	7000,0	1640	30	12	TUR	UiILL	J3E-U	Turkis male voice traffic
DARC	10101,0	1950	03	12	E	UiILL	J3E-U	Spanish fishery
DARC	10101,0	1828	11	12	F.Ea	UiILL	J3E-U	Far East pirates
DARC	10101,2	2311	14	12		UiILL	J3E-U	unid voice traffic
DARC	10115,0	1708	01	12	F.Ea	UiILL	J3E-U	Far East pirates
DARC	10133,2	1408	07	12	F.Ea	UiILL	J3E-U	unid pirates from Far East
DARC	10150,0	1742	07	12	KOR	UiILL	J3E-U	Korean ships
DARC	14000,0	1444	15	12	MRC	UiILL	J3E-U	Moroccan fishery
DARC	14000,0	1327	18	12	F	UiILL	J3E-U	French fishery
DARC	14000,0	vt	vd	12	INS	UiILL	J3E-U	Indonesian pirates heard 03 04 at 1115, 1145
DARC	14000,0	vt	vd	12	MRC	UiILL	J3E-U	Moroccan fishery, heard 21 - 31 at 0945 - 1140, 8 reports
DARC	14000,4	0825	16	12	INS	UiILL	J3E-U	Indonesian pirates
DARC	14000,7	0830	09	12		UiILL	J3E-U	unid pirates, QTE 220 degs.
DARC	14000,7	0848	27	12	F.Ea	UiILL	J3E-U	Far East pirates
DARC	14001,0	1146	31	12	CLN	UiILL	J3E-U	Tamil fishery, SSB-USB used
DARC	14001,2	0854	10	12	F.Ea	UiILL	J3E-U	Far East pirates
DARC	14002,2	0922	06	12	Af	UiILL	J3E-U	African pirate net
DARC	14002,3	1100	02	12	CLN	UiILL	J3E-L	Tamil fishery, SSB-LSB used
DARC	14295,2	0954	02	12	TJK	Radio Tajikistan	A3E	3rd harmonic of 4765, daily
DARC	14350,0	0902	06	12	E	UiILL	J3E-U	Spanish fisherman and wife
DARC	14350,0	0922	16	12	E	UiILL	J3E-U	Spaniard and his wife
DARC	18095,0	1050	21	12	E	UiILL	J3E-U	Spanish fishery, male to female
DARC	21000,0	0910	22	12	INS	UiILL	J3E-U	Indonesian pirates
DARC	28000,0	vt	vd	12	RUS	Russian Taxi Drivers	F3E	Russian taxi traffic in FM, 30 reports between 28000 and 29545
DARC	28195,0	0935	11	12		UiILL	F3E	unid pirates, QTE 080 degs. from DL
DARC	28425,0	0939	08	12	RUS	UiILL	F3E	Russian taxi traffic in FM

## DARC 2 – Germany – DJ9KR (UiI)

PSE observe: **BC (A3E) blue coloured!**

CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	Remarks and Comments
DARC	3535,0	1633	06	12	HOL	UiILL	J3E-U	Dutch male person
DARC	3595,0	1633	06	12	GRC	UiILL	J3E-L	2 m in Greek voice
DARC	7018,5	1405	08	12	RUS	UiPTR	F1B	heard 1405 - 1747
DARC	7098,0	0808	10	12		UiPTR	F1B	unid printer
DARC	7099,9	vt	30	12	PAK	Azak Kashmir	A3E	song from Indian film music, "Pakistan" often mentioned, heard 1513 - 1803, at 1800: "ye R.Pakistan he"
DARC	7100,0	0646	27	12	CVA	Vatican Radio	A3E	prayer "Agnus Dei" heard, S8 - found // 7250
DARC	7105,0	1903	08	12	TUN	RTV Tunisia	A3E	weak signal found // 7225
DARC	7105,0	2252	12	12	CHN	PBS Nei Menggu	A3E	Chinese px heard, weak 2nd stn in Chinese under signal

CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	Remarks and Comments
DARC	7105,0	2252	12	12	TWN	Sound of Hope	A3E	Chinese px other than PBS Nei Menggu
DARC	7105,0	2210	17	12	CHN	PBS Nei Menggu	A3E	Chinese px
DARC	7105,0	2210	17	12	TWN	Sound of Hope	A3E	audible under PBS Nei Menggu
DARC	7105,0	2210	22	12	CHN	Hainan Firedrake Jammer	JAM	overmodulated Chinese temple music to jam Sound of Hope
DARC	7105,0	2210	22	12	TWN	Sound of Hope	A3E	Chinese px jammed by Hainan Firedrake Jammer
DARC	7105,0	2222	23	12	CHN	Hainan Firedrake Jammer	JAM	overmod. Chinese temple music to jam Sound of Hope
DARC	7105,0	2222	23	12	TWN	Sound of Hope	A3E	Chinese px jammed by Hainan Firedrake Jammer
DARC	7105,0	1900	25	12	TUN	RTV Tunisia	A3E	Ar px, S8-signal, found // 7225
DARC	7105,0	2155	25	12	CHN	Hainan Firedrake Jammer	N0N	carrier, at 2200 s/on music jammer
DARC	7105,0	2200	25	12	TWN	Sound of Hope	A3E	s/on with Chinese px at 2200
DARC	7120,0	1502	05	12	ERI	VOBME	A3E	found // to 7160, 7165, 7175
DARC	7120,0	1516	06	12	ERI	VOBME	A3E	found // 7160, 7175
DARC	7120,0	1734	08	12	ERI	VOBME	A3E	heard 1734, 1809: nil
DARC	7120,0	0550	09	12	ERI	VOBME	A3E	Qur'an recitals heard, weak
DARC	7120,0	0608	12	12	ERI	VOBME	A3E	HOA music
DARC	7120,0	1530	19	12	ERI	VOBME	A3E	HOA music, found // 7165, 7175
DARC	7120,0	1655	22	12	ERI	VOBME	A3E	HOA music, found // 7165, 7175, 7185
DARC	7120,0	1604	25	12	ERI	VOBME	N0N	carrier heard
DARC	7130,0	0638	06	12	ERI	VOBME	A3E	found // to 7140, 7175
DARC	7135,0	0606	10	12		UiOTH	P0N	bubbling pulses
DARC	7140,0	0638	06	12	ERI	VOBME	A3E	found // to 7130, 7175
DARC	7140,0	0646	27	12	ERI	VOBME	A3E	vy weak signal
DARC	7152,5	1405	08	12		UiPTR	F1B	unid printer
DARC	7160,0	1502	05	12	ERI	VOBME	A3E	found // to 7120, 7165, 7175
DARC	7160,0	1516	06	12	ERI	VOBME	A3E	found // 7120, 7175
DARC	7160,0	1734	08	12	ERI	VOBME	A3E	heard 1734, 1809: nil
DARC	7160,0	0550	09	12	ERI	VOBME	A3E	Qur'an recitals heard, weak
DARC	7165,0	1502	05	12	ERI	VOBME	A3E	found // to 7120, 7160, 7175
DARC	7165,0	1734	08	12	ERI	VOBME	A3E	heard 1734, 1809: nil
DARC	7165,0	0550	09	12	ERI	VOBME	A3E	Qur'an recitals heard, weak
DARC	7165,0	0608	12	12	ERI	VOBME	A3E	is active, found // 7120, 7175, 7185
DARC	7165,0	1530	19	12	ERI	VOBME	A3E	HOA music, found // 7120, 7175
DARC	7165,0	1655	22	12	ERI	VOBME	A3E	HOA music, found // 7120, 7175, 7185
DARC	7165,0	1604	25	12	ERI	VOBME	N0N	carrier heard
DARC	7170,0	2157	05	12		UiBC	A3E	2 px heard at the same time
DARC	7175,0	1502	05	12	ERI	VOBME	A3E	found // to 7120, 7160, 7165 - S9+25dB
DARC	7175,0	0638	06	12	ERI	VOBME	A3E	found // to 7130, 7140
DARC	7175,0	1516	06	12	ERI	VOBME	A3E	found // 7120, 7160
DARC	7175,0	1328	08	12	ERI	VOBME	A3E	jingle, 1330: s/on
DARC	7175,0	1734	08	12	ERI	VOBME	A3E	heard 1734 - 1900 with Ar px
DARC	7175,0	0550	09	12	ERI	VOBME	A3E	Qur'an recitals heard S9+10dB
DARC	7175,0	0608	12	12	ERI	VOBME	A3E	is active, found // 7120, 7165, 7185
DARC	7175,0	1530	19	12	ERI	VOBME	A3E	HOA music, found // 7120, 7165
DARC	7175,0	1655	22	12	ERI	VOBME	A3E	HOA music, found // 7120, 7165, 7185 - S9+15dB
DARC	7175,0	1604	25	12	ERI	VOBME	A3E	ann., echo chamber
DARC	7175,0	1900	25	12	ERI	VOBME	A3E	Vernacular voice
DARC	7175,0	0646	27	12	ERI	VOBME	A3E	flute music
DARC	7179,0	2140	04	12	RUS	V.o.Russia	A3E	also heard on 5001 with S9
DARC	7179,0	2200	05	12	RUS	V.o.Russia	A3E	Church bells ringing, Russian Orthodox Divine Service

CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	Remarks and Comments
DARC	7179,0	2119	06	12	RUS	V.o.Russia	A3E	S8-signal
DARC	7179,0	2155	25	12	RUS	V.o.Russia	A3E	weak signal
DARC	7179,0	2145	27	12	RUS	V.o.Russia	A3E	weak BC heard
DARC	7179,0	vt	dly	12	RUS	V.o.Russia	A3E	is IM of 6090 and 1089, station Krasnodar-Armavir - report DL5SX
DARC	7185,0	0608	12	12	ERI	VOBME	A3E	is active, found // 7120, 7165, 7175
DARC	7185,0	1655	22	12	ERI	VOBME	A3E	HOA music, found // 7120, 7165, 7175
DARC	7185,0	1604	25	12	ERI	VOBME	N0N	carrier heard
DARC	7189,7	0119	12	12	CLN	SLBC Sri Lanka	A3E	S8-9 signal
DARC	7189,7	0128	17	12	CLN	SLBC Sri Lanka	A3E	Indian film music
DARC	7190,0	1532	19	12	I	Italin Lis Amateurs	A3E	using AM, heard IT9NFE (??) - no BC station!
DARC	7195,0	1516	06	12	UGA	R.Uganda	A3E	S2-signal
DARC	7195,0	2128	21	12	UGA	Radio Uganda	A3E	heard S9+10dB
DARC	7200,0	0638	05	12	SDN	R.Omdurman	A3E	Ar px
DARC	7200,0	1502	05	12	SDN	R.Omdurman	A3E	Ar px S9+15dB
DARC	7200,0	1619	06	12	IRN	V.o.IRIB	A3E	Farsi px S9+20dB
DARC	7200,0	1810	06	12	IRN	V.o.IRIB	A3E	Croat px
DARC	7200,0	1810	06	12	SDN	R.Omdurman	A3E	found // to IRIB
DARC	7200,0	2120	06	12	IRN	V.o.IRIB	A3E	Spanish px S9+30dB, s/off at 2130
DARC	7200,0	vt	08	12	IRN	V.o.IRIB	A3E	heard 1740 - 1809, S9+35dB
DARC	7200,0	vt	08	12	SDN	R.Omdurman	A3E	heard 1809 - 1900-
DARC	7200,0	vt	09	12	SDN	R.Omdurman	A3E	heard 0241 - 0550, ann., Ar px
DARC	7200,0	1703	11	12	SDN	R.Omdurman	A3E	Ar px
DARC	7200,0	0608	12	12	SDN	R.Omdurman	A3E	Ar px
DARC	7200,0	0755	20	12	SDN	R.Omdurman	A3E	weak signal
DARC	7200,0	vt	22	12	SDN	R.Omdurman	A3E	weak, heard 0730, 1253
DARC	7200,0	1604	25	12	IRN	V.o.IRIB	A3E	music
DARC	7200,0	1900	25	12	SDN	R.Omdurman	A3E	BC
DARC	7200,0	0646	27	12	SDN	R.Omdurman	A3E	Ar px
DARC	7200,0	vt	dly	12	IRN	V.o.IRIB	A3E	1730 - 1827: Bosnian px S9+40dB
DARC	7200,0	vt	dly	12	IRN	V.o.IRIB	A3E	1814 - 1831: Arabic px
DARC	7200,0	vt	dly	12	SDN	R.Omdurman	A3E	ILG-B10 says - sked: 0245 - 2300, 2300 - 0230 - Arabic px
DARC	7200,0	vt	dly	12	IRN	V.o.IRIB	A3E	1600 - 1730: Tajik px
DARC	7200,0	vt	dly	12	IRN	V.o.IRIB	A3E	1730 - 1830: Bosnian px
DARC	7200,0	vt	dly	12	IRN	V.o.IRIB	A3E	2030 - 2130: Spanish px (for Europe)
DARC	7200,0	1905	30	12	SDN	R.Omdurman	A3E	Ar px
DARC	10120,0	1000	04	12	SRB	Radio Serbia	A3E	s/on at 1000, heard 1000 - 1232 with S9, slightly distorted mod. - fundamental 9505 (S9+30dB), also heard with distorted px on 8890 (S9)
DARC	10120,0	1228	04	12	SRB	Radio Serbia	A3E	jingle
DARC	10120,0	1330	04	12	SRB	Radio Serbia	A3E	nil heard
DARC	10120,0	1000	05	12	SRB	Radio Serbia	A3E	nothing heard, 9505 is QRV, 8890 is not QRV
DARC	10120,0	1300	09	12	SRB	Radio Serbia	A3E	heard // on 9505, 8275: nil
DARC	10125,0	0900	04	12	I	UiILL	J3E-U	Italian male voices heard
DARC	10128,0	1410	08	12	E	UiILL	J3E-U	Spanish fishery, "gambas" mentioned
DARC	10140,0	2141	20	12		UiOTH	P0N	OTH-Radar, 25 kHz spread
DARC	14000,0	1244	23	12		UiCAR	N0N	long lasting carrier, QTE 120 degs.
DARC	14000,0	vt	25	12	GRC	UiILL	J3E-U	2 male persons in Greek voice, S9+10dB
DARC	14001,2	1225	11	12	S.As	UiILL	J3E-L	2 male persons, S.As language, QTE 090 degs.
DARC	14020,0	0703	05	12		UiBC	A3E	weak signal heard
DARC	14020,0	0650	08	12		UiBC	A3E	weak signal heard
DARC	21030,0	vt	21	12		UiOTH	P0N	OTH-Radar heard 0759 - 1042, found // 21190 but different pulse rate
DARC	21190,0	vt	21	12		UiOTH	P0N	OTH-Radar heard 0756 - 0801 s/off - found // 21030 but different pulse rate
DARC	21240,0	0759	20	12		UiOTH	P0N	chirping pulses S9+40dB, 20 kHz spread

## DARC MONITORING SYSTEM - Coordinator Ulrich Bihlmayer DJ9KR

### BC Stations still transmitting in the 40-m-Band, Range 7000 – 7200 kHz

QRG (kHz)	name of Broadcast Station, ITU-country
7099,9	<i>Azad Kashmir Radio, PAK</i>
7105	Radio China , Nei Menggu PBS, CHN
7105	Hainan Firedrake Jammer against Sound of Hope, CHN
7105	Sound of Hope, TWN
<i>7105</i>	<i>RTV Tunisia, IM, frequencies involved 7225 and 7345 kHz, still heard in January 2011</i>
7120	Voice of the Broad Masses of Eritrea, ERI
7165	Voice of the Broad Masses of Eritrea, ERI
7175	Voice of the Broad Masses of Eritrea, ERI
<i>7179</i>	<i>Voice of Russia, IM product , RUS</i>
7180	Voice of the Broad Masses of Eritrea, ERI
7189,7	Myanmar Radio, Burmese 0030 – 0200, English 0200 – 0230, Burmese 0730 – 0930, 1130 – 1430, BRM
7185	Voice of the Broad Masses of Eritrea, ERI
7189,7	SLBC Colombo, Hindi 0030 – 0300, Telugu 0830 – 0930, Tamil 1030 - 1230, Sri Lanka, CLN
7190	Radio Yemen, San'a, YEM
7195	Radio Uganda, English 0600 – 1200 dly, 1200 – 1400 Monday and Sunday, UGA
7200	Myanma Radio, BRM
7200	Radio Omdurman, Arabic 0000 - 2400, SDN
7200	VO Islamic Republic Iran, IRN

**There may be more BC stations active in the range 7000 – 7200 kHz, however we do not hear them in Germany / have not received reports of harmful interference.**

Homepages: [www.iaru-r1.org](http://www.iaru-r1.org) and [www.iarums-r1.org](http://www.iarums-r1.org) and [www.qrz.com/db/dj9kr](http://www.qrz.com/db/dj9kr)

**Compiled by Ulrich Bihlmayer, DJ9KR**

**State : 11 January 2011**

**IARUMS Region 1 – 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****SH = shift --- SP = spread (radar)**

<b>IARU</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/SP</b>	<b>DETAILS</b>
<b>IARU</b>	1812,0	ady	dly	12	POL		A3E			Polish “PIP” – 10 tones – North-Poland – Baltic coast - POL Navy ?
<b>IARU</b>	1876,8	ady	dly	12	G		PSK8	2400	2600	Stanag4285 - 1200 bps long - Scotland
<b>IARU</b>	1896,5	ady	dly	12	D		PSK8	2400	2600	Stanag4285 - 600 bps long - German Navy
<b>IARU</b>	3500,0	vt	dly	12	TUR	no ITU	FSK8	125	1750	ALE, “2015” “2016” “1020”- Turkish Red Crescent - legal
<b>IARU</b>	3500,0	2250	08	12						frequency hopper
<b>IARU</b>	3503,5	vt	dly	12	G	no ITU	FSK8	125	1750	ALE – “XSS” “XPU” – British MIL Tascomm
<b>IARU</b>	3510,0	vt	dly	12	ALG		FSK8	125	1750	ALE, “JE30” “PT30”
<b>IARU</b>	3511,6	2203	02	12			FSK8	125	1750	Thales Skymaster
<b>IARU</b>	3516,0	0830	07	12	RUS		PSK2	120	2600	AT3004D - Tula
<b>IARU</b>	3522,0	2227	09	12	RUS		F1B	75	250	north of Smolensk - also 26.12. at 1837 utc
<b>IARU</b>	3523,0	1733	06	12	BLR		F1B	75	250	north of Minsk
<b>IARU</b>	3527,0	2039	17	12	RUS		F1B	50	200	Severomorsk
<b>IARU</b>	3532,0	1603	30	12	RUS		PSK	120	2600	AT3004D - idling - Moscow
<b>IARU</b>	3533,0	vt	dly	12	E	no ITU	FSK8	125	1750	ALE, “TZSC2” “TWBZ1” - Spanish Guardia Civil
<b>IARU</b>	3539,9	1849	26	12	EST		F1B	180	500	Bulgarian diplo ASCII – possibly emba traffic
<b>IARU</b>	3540,5	1854	28	12	RUS		PSK2	120	2600	AT3004D
<b>IARU</b>	3545,0	2017	19	12	ALG		FSK8	125	1750	ALE, “FL50” “PT50” - ALG MIL
<b>IARU</b>	3549,0	2050	29	12	MDA		F1B	100	150	Yakhta synchro - area of Moldavia
<b>IARU</b>	3550,7	vt	vd	12	ISR		PSK4	75	2200	MIL-188-110A - hybrid
<b>IARU</b>	3552,0	vt	dly	12	RUS		F1B	50	200	Far-East-Russia
<b>IARU</b>	3553,8	ady	dly	12	TUR		PSK8	2400	2600	Stanag4285 – TUR MIL - Ankara
<b>IARU</b>	3557,0	1604	01	12	BLR		F1B	75	250	north west of Minsk
<b>IARU</b>	3561,0	1637	02	12	RUS		F1B	75	250	Kaliningrad
<b>IARU</b>	3577,0	ady	dly	12	I	IZ3DVW	A1A			IZ3DVW – beacon not coordinated
<b>IARU</b>	3580,0	1856	31	12						frequency hopper
<b>IARU</b>	3585,0	1700	dly	12	TWN	HLL	F1C			120 rpm, IOC 576, Wxfax - legal!
<b>IARU</b>	3588,0	1940	02	12	BLR		PSK2	120	2600	AT3004D - West-BLR
<b>IARU</b>	3590,0	vt	dly	12	PAK	no ITU	FSK8	125	1750	ALE, “KW” “BABUR” “KHA” “KHAIBAR” “BADR”
<b>IARU</b>	3593,7	2220	09	12	RUS	D	A1A			Cluster beacon – Sevastopol RUS Navy – “RCV”
<b>IARU</b>	3593,9	2220	09	12	RUS	S	A1A			Cluster beacon – Murmansk RUS Navy – „RIT“
<b>IARU</b>	3595,0	vt	dly	12	D	no ITU	FSK8	125	1750	ALE, „ZLST“ „ZPRI“ „ZSHO“ „ZBOR“ „ZEMD“ „ZHEL“ „ZKNI“ „ZBOR“ „BPLEZS“ German customs – North-Germany
<b>IARU</b>	3596,0	vt	dly	12	HRV	9A0ALE	FSK8	125	1750	Croatian emergency ALE-net --- for info!
<b>IARU</b>	3596,0	1928	28	12	RUS		PSK2	120	2600	AT3004D - Kaliningrad
<b>IARU</b>	3597,0	1510	02	12	RUS		PSK2	120	2600	AT3004D - Kaliningrad
<b>IARU</b>	3602,0	1732	20	12	RUS		F1B	75	250	St. Petersburg
<b>IARU</b>	3603,0	vt	vd	12	D	DA0EC	PSK8	2000	2000	RFSM 8000 – amateur emergency net - Berlin - legal



IARU	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										operation - just for info!!!
IARU	3608,0	vt	dly	12	RUS		F1B	50	200	Kaliningrad
IARU	3611,5	vt	dly	12	D		PSK8	200	500	German APRS Net in Robust Packet - just for info!
IARU	3632,7	2107	15	12	ISR		PSK4	75	2800	MIL-188-110A - hybrid
IARU	3653,0	2210	03	12	RUS		F1B	50	200	Murmansk
IARU	3667,0	2210	09	12	BLR		F1B	75	250	North-West BLR
IARU	3699,5	vt	dly	12	RUS		F1B	50	200	Kaliningrad
IARU	3756,0	ady	dly	12	UKR		A3E			UKR – pip – 10 tones
IARU	3771,0	1845	27	12	BLR		F1B	40.5	500	system Frost 1 - South BLR
IARU	3782,0	ady	dly	12	POR	CTP	F1B	75	850	POR Navy headquarter Lisbon
IARU	3797,0	1930	05	12	RUS		F1B	75	250	Nizhny Novgorod
IARU	3799,0	1944	08	12	BLR		PSK2	120	2600	AT3004D - north of Minsk
IARU	7000,0	vt	dly	12	IRQ	no ITU	FSK8	125	1750	ALE, “MEDOPS” “BMROPS” “LNGKNF” “EAGLE” “HFCFSR” “R23747” “R24594” US MIL
IARU	7001,5	1550	30	12	ISR		FMCW		2800	sawtooth-generator - 0.3 Hz - 2800 Hz wide – area of Israel – 1 <sup>st</sup> time heard on 29.12.2010
IARU	7001,8	1943	31	12	ISR		PSK4	75	2200	MIL-188-110A - hybrid
IARU	7007,0	1738	11	12						frequency hopper
IARU	7012,0	1450	28	12	RUS		F1B	75	250	area of Bryansk
IARU	7013,0	0927	05	12	RUS		PSK4	120	2600	AT3104D - Kaliningrad
IARU	7018,0	vt	dly	12	RUS	REA4	F1B	50	1000	Russian Airforce Moscow
IARU	7018,0	1440	02	12	RUS	REA4	F1B	50	500	RUS AF - Moscow
IARU	7021,0	1427	02	12	RUS		PSK2	120	2600	AT3004D - West-Russia
IARU	7032,0	1020	28	12	RUS		PSK	120	2600	AT3004D - Kaliningrad
IARU	7033,0	2051	30	12	RUS		FMCW		10k	OTH radar – burst system - 66.7 pps – Kaliningrad – hopping on 7033, 7058, 7078, 7091 and 7160 kHz
IARU	7038,7	ady	dly	12	UKR	D	A1A			Cluster beacon – Sevastopol RUS Navy – “RCV”
IARU	7038,8	ady	dly	12	RUS	P	A1A			Cluster beacon – Kaliningrad RUS Navy – “RMP”
IARU	7038,8	1600	02	12	RUS	M	A1A			Cluster beacon – Magadan RUS Navy – „RTS“
IARU	7038,9	ady	dly	12	RUS	S	A1A			Cluster beacon – Murmansk RUS Navy – „RIT“
IARU	7039,0	ady	dly	12	RUS	C	A1A			Cluster beacon - Moscow RUS Navy - “RIW”
IARU	7039,1	vt	dly	12	KGZ	A	A1A			Cluster beacon – Bishkek RUS Navy –
IARU	7039,2	ady	dly	12	RUS	F	A1A			Cluster beacon - Vladivostok RUS Navy - “RJS”
IARU	7039,3	vt	dly	12	RUS	K	A1A			Cluster beacon - Petropavlovsk Kamchatskiy - RUS Navy - Pacific fleet - “RCC”
IARU	7039,4	1437	03	12	RUS	M	A1A			Cluster beacon – Magadan RUS Navy – „RTS“
IARU	7039,9	ady	dly	12	I	IZ3DVW	A1A			IZ3DVW – beacon not coordinated
IARU	7042,0	1942	08	12						frequency hopper
IARU	7044,0	1825	04	12	RUS	REA4	A1A			only dots, RUS Airforce - Omsk
IARU	7054,0	vt	dly	12	RUS		F1B	50	120	RUS MIL - Moscow
IARU	7054,0	1428	12	12	RUS		PSK2	120	2600	AT3004D
IARU	7058,0	2030	30	12	RUS		FMCW		10k	OTH radar – burst system - 66.7 pps – Kaliningrad
IARU	7063,0	1420	28	12	RUS		F1B	75	500	Kaliningrad
IARU	7078,0	2026	30	12	RUS		FMCW		10k	OTH radar – burst system - 66.7 pps - Kaliningrad
IARU	7089,0	0707	10	12	BLR		PSK2	120	2600	AT3004D - south west of Minsk
IARU	7089,6	1342	24	12	UKR		F1C		535	WX-fax – 60 rpm, IOC 576, 535 Hz shift - Russian Naval Base Sevastopol – daily active

IARU	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
IARU	7091,0	2025	30	12	RUS		FMCW		10k	OTH radar – burst system - 66.7 pps - Kaliningrad
IARU	7098,0	0908	30	12	RUS		F1B	75	250	Kaliningrad
IARU	7100,0	1525	27	12						frequency hopper
IARU	7112,0	0820	22	12	UKR		PSK4	120	2600	AT3104D - north of Kiev
IARU	7113,0	0941	07	12	RUS		PSK2	120	2600	AT3004D - Kaliningrad
IARU	7122,0	1113	29	12	RUS		PSK2	120	2600	AT3004D - Moscow
IARU	7144,0	0837	02	12	RUS		PSK2	120	2600	AT3004D – Velikije Luki
IARU	7159,0	1418	07	12	POL		F1B	75	200	south of Warsaw
IARU	7160,0	2049	30	12	RUS		FMCW		10k	OTH radar – burst system - 66.7 pps - Kaliningrad
IARU	7176,0	0759	05	12	RUS		F1B	75	250	north of Kazan – also 20.12.10
IARU	7178,0	0727	14	12	RUS		PSK2	120	2600	AT3004D - Kaliningrad
IARU	7182,0	1406	05	12	RUS		PSK2	120	2600	
IARU	7188,0	1235	05	12	RUS		F1B	75	250	Bryansk, also 09.12.10 at 1350 utc
IARU	7188,0	0952	17	12	RUS		F1B	75	200	Kaliningrad
IARU	7201,0	1108	12	12	RUS		PSK2	120	2600	AT3004D
IARU	10101,0	2051	04	12						frequency hopper
IARU	10104,0	2055	08	12						frequency hopper
IARU	10109,0	2104	02	12						frequency hopper
IARU	10110,0	vt	dly	12	SNG	no ITU	FSK8	125	1750	ALE, “CN2” “72” – Singapore Navy – Changi Naval Base with frigate “RSS Stalwart”
IARU	10112,0	2050	21	12						frequency hopper
IARU	10115,0	vt	dly	12			FSK8	125	1750	ALE, “2001” “2011”
IARU	10121,0	0841	27	12	RUS		F1B	75	250	Moscow
IARU	10123,0	1130	04	12	RUS		F1B	75	250	north east of Samara
IARU	10125,0	2118	15	12	CYP		FMCW		20k	OTH Radar Cyprus, 50 pps
IARU	10130,0	ady	dly	12	RUS		F1B	50	500	Kaliningrad
IARU	10130,0	1449	19	12	CYP		FMCW		20k	OTH Radar Cyprus, 50 pps
IARU	10134,8	1000	04	12	E		PSK2	31.3	380	Clover2 - 4 x 31.25 Bd - area of Barcelona
IARU	10150,0	2256	24	12	CYP		FMCW		20k	OTH Radar Cyprus, 50 pps
IARU	10150,0	1806	20	12	CYP		FMCW			OTH Radar Cyprus, 50 pps
IARU	14000,0	vt	dly	12			FSK8	125	1750	ALE, “1010” “101”
IARU	14002,5	2040	15	12						frequency hopper
IARU	14042,0	1445	02	12	RUS		PSK2	120	5200	AT3004D - harmonic from 7021
IARU	14042,0	1450	15	12						frequency hopper
IARU	14052,0	0940	15	12	RUS		PSK2	120	2600	AT3004D - north of Kazan
IARU	14100,0	0930	08	12	?		FMCW		50k	OTH Radar – 20.8 pps
IARU	14100,0	vt	dly	12	ALG		FSK8	125	1750	ALE, “CM1” “01” “BFK = Boufarik Air Base” “AOS = Oussera Air Base” - Algerian Airforce
IARU	14105,0	0739	10	12	ARG		FMCW		10k	OTH Argentina - 50 pps
IARU	14149,0	1404	15	12						frequency hopper
IARU	14196,0	1028	30	12	RUS		F1B	75	500	weak signal
IARU	14221,5	0810	06	12	CHN		G7D			39 tone modem with voice traffic, South-West Cihina
IARU	14260,8	0746	17	12	RUS		OFDM	35.6	2800	OFDM60 – 44.4 Hz – spacing - Kaliningrad
IARU	14262,0	0840	09	12	RUS		F1B	75	250	West-Russia
IARU	14283,0	0937	08	12						frequency hopper
IARU	14295,0	0718	10	12	ARG		FMCW		10k	OTH Argentina - 41.7 pps
IARU	14308,0	0727	10	12	RUS		F1B	98	250	north of Moscow
IARU	18095,0	1251	21	12						frequency hopper
IARU	18095,0	1109	28	12	CYP		FMCW		20k	OTH Radar Cyprus, 50 pps
IARU	18107,0	vt	dly	12	RUS	RDL	F1B	50	250	Russian Navy - Moscow
IARU	18122,7	1025	03	12	EGY	KKXO	F1B			Sitor A - MFA Cairo with EGY emba Ivory Coast
IARU	18126,7	0950	02	12	EGY	TVVK	F1B	100	170	Sitor A - MFA Cairo with EGY emba RABAT in Morocco
IARU	18150,0	1357	11	12	TUR		FMCW		20k	OTHR - South-East Turkey
IARU	21000,0	vt	dly	12						frequency hopper

IARU	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
IARU	21000,0	vt	dly	12	ALG		FSK8	125	1750	ALE, "BJ80"
IARU	21000,0	0855	06	12	RUS	RAZ2	F1B	39	1000	harmonic from 10500 - idling - Mitschurinsk
IARU	21006,0	0905	08	12						frequency hopper
IARU	21014,0	0918	24	12						frequency hopper
IARU	21022,0	1108	18	12	RUS		F1B	75	500	harmonic from 10511 (250 Hz) Samara
IARU	21030,0	1107	21	12	CYP		FMCW		20k	OTH Radar Cyprus, 25 pps
IARU	21084,0	0859	22	12						frequency hopper
IARU	21100,0	0919	24	12						frequency hopper
IARU	21160,0	0937	15	12	CYP		FMCW		20k	OTH Radar Cyprus, 50 pps
IARU	21190,0	1006	07	12	CYP		FMCW		20k	OTH Radar Cyprus, 25 pps
IARU	21190,0	0755	16	12	RUS		F1B	100	1000	harmonic from 10595 (500 Hz) – area of Samara
IARU	21400,0	1002	02	12	RUS		F1B	50	2000	50 Bd async - harmonic from 5350, also on 10700 - west of Jekaterinburg
IARU	21422,0	0914	24	12						frequency hopper
IARU	24898,0	0845	17	12						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	7000,0	VT	VD	12	FSK8 (ALE)	LBY	LYB	125	1750	HQ3 CALLED GHADAMES
MRASZ	7010,0	VT	VD	12	FSK8 (ALE)	Ui	UiMUX	125	1750	CS-RS NATO NC3A Net
MRASZ	7014,0	VT	VD	12	FSK8 (ALE)	Ui	UiMUX	125	1750	44?? 4 FIGURES NET SOUNDING AND CONECT.
MRASZ	7020,0	VT	VD	12	FSK8 (ALE)	Ui	UiMUX	125	1750	CS-RS NATO NC3A Net
MRASZ	7045,0	VT	VD	12	FSK8 (ALE)	Ui	UiMUX	125	1750	1???, 2???, 4 FIGURES NET
MRASZ	7051,0	VT	VD	12	FSK8 (ALE)	Ui	UiMUX	125	1750	110-NET UZBEK FORCES ( 1105)
MRASZ	7070,0	VT	VD	12	FSK8 (ALE)	GEO	UiMUX	125	1750	244-NET: 244 – 00, 204, 334, 514, 686, 494, 571, 288
MRASZ	7095,0	VT	VD	12	FSK8 (ALE)	UZB	UiMUX	125	1750	110-NET UZBEK FORCES
MRASZ	7113,0	VT	VD	12	FSK8 (ALE)	UZB	UiMUX	125	1750	420 UNID
MRASZ	7116,0	VT	VD	12	FSK8 (ALE)	UZB	UiMUX	125	1750	110-NET UZBEK FORCES
MRASZ	7125,0	VT	VD	12	FSK8 (ALE)	UZB	UiMUX	125	1750	1111, 2222, 7601, 2760 UNID
MRASZ	7102,0	VT	VD	12	FSK8 (ALE)	UZB	UiMUX	125	1750	BMROPS UNID
MRASZ	7140,0	VT	VD	12	FSK8 (ALE)	UZB	UiMUX	125	1750	110-NET UZBEK FORCES
MRASZ	7197,0	VT	VD	12	FSK8 (ALE)	Ui	UiMUX	125	1750	206102, 8031 SOUNDING, NO CONTACT

### 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)**

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	REMARKS
SRAL	7010,0	0700-0815	20	12		UiMUX	J7D	12x120	12x200	
SRAL	7012,0	1130-1430	*	12		UiPTR	F1B		250	Days 17, 28, 30
SRAL	7018,0	1100-2100	dly	12	RUS	REA4	F1B/A		1000/500	MR at h+40
SRAL	7021,0	0700-1430	2	12		UiMUX	J7D	12x120	12x200	
SRAL	7032,0	1350-1440	10, 20	12		UiMUX	J7D	12x120	12x200	Kaliningrad
SRAL	7038,7	0530-2000	dly	12	UKR	D	A1A			Sevastopol
SRAL	7038,9	h24	dly	12	RUS	S	A1A			Severomorsk
SRAL	7039,0	h24	1-6	12	RUS	C	A1A			Moscow
SRAL	7044,0	1030-1930	1-9	12	RUS	REA4	A1B			25 Hz dotter, Omsk
SRAL	7050,0	1140	6	12	RUS	UiCW	A1A			MR 5BL
SRAL	7054,0	0600-0800	1-6	12	RUS	REA4	F1B		200	25 Hz dotter
SRAL	7054,0	1800-2000	1-6	12	RUS	REA4	F1B		200	25 Hz dotter
SRAL	7089,0	0730-1530	*	12		UiMUX	J7D	12x120	12x200	Days 10-12, 18
SRAL	7098,0	0730-1235	*	12	RUS	UiPTR	F1B		200	Days 10, 15, 30, Kaliningrad
SRAL	7098,5	1200-1330	12	12		UiMUX	J7D	12x120	12x200	
SRAL	7112,0	1150-1240	22	12	UKR	UiMUX	J7D	12x120	12x200	Kiev
SRAL	7116,0	1300	4	12		UiCW	A1A			MR 5BL
SRAL	7118,0	1200-1330	2, 27	12		UiPTR	F1B		200	
SRAL	7120,0	1415-1800	dly	12	ERI	VoBME 1	A3E			Offset +25 Hz
SRAL	7125,0	0815	16	12		UiMUX	J7D	12x120	12x200	
SRAL	7127,0	1200-1330	10	12	RUS	UiPTR	F1B		250	
SRAL	7129,0	0715	18	12		UiMUX	J7D	12x120	12x200	
SRAL	7142,0	0700-1434	10, 18	12	RUS	UiPTR	F1B		250	
SRAL	7144,0	1200-1230	18	12		UiMUX	J7D	12x120	12x200	
SRAL	7149,0	0750	22	12		UiCW	A1A			MR 5F
SRAL	7160,0	1430-1710	4 - 9	12		UiBC	A3E			Offset +26 Hz
SRAL	7165,0	1420-1800	dly	12	ETH	R Ethiopia	A3E			Offset +12 Hz
SRAL	7167,0	1230-1355	25	12		UiPTR	F1B		250	
SRAL	7175,0	1315-2005	dly	12	ERI	VoBME 2	A3E			Offset -10 Hz
SRAL	7176,0	0730-1330	1, 5, 14	12		UiPTR	F1B		200/250	
SRAL	7178,0	0730-0905	14	12		UiMUX	J7D	12x120	12x200	
SRAL	7185,0	1430-1800	dly	12	ERI	VoBME	A3E			Offset +20 Hz
SRAL	7188,0	1230-1355	*	12		UiPTR	F1B		250	Days 2, 5, 8, 9, 11, 15, 16, 17, Bryansk

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	REMARKS
SRAL	7195,0	1450-2040	16, 18	12	UGA	UBC Radio	A3E			Offset -20 Hz
SRAL	7200,0	0530-2100	dly	12	SDN	R Sudan	A3E			Offset +0 Hz
SRAL	7200,0	1600-1830	dly	12	IRN	IRIB	A3E			Offset abt. +5 Hz, 2 or 3 different transmitters
SRAL	14295,1	0530-1330	dly	12	TJK	R Tojikiston	A3E			3f 4765,05 kHz, Yangiyul TX

## USKA – Switzerland – HB9CET (Peter)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	7000.0	1251	15	12			N0N			long lasting carrier often
USKA	7000.0	1807	15	12		021	MFSK8	125	1750	MIL 188-141A
USKA	7000.0	1832	15	12		051	MFSK8	125	1750	MIL 188-141A
USKA	7000.0	1832	18	12		2214	MFSK8	125	1750	MIL 188-141A
USKA	7000.0	0253	29	12		2425	MFSK8	125	1750	MIL 188-141A
USKA	7000.0	2329	01	12		BMROPS	MFSK8	125	1750	MIL 188-141A daily
USKA	7000.0	2325	01	12		EAGLE	MFSK8	125	1750	MIL 188-141A daily
USKA	7000.0	1742	03	12		HFCFSR	MFSK8	125	1750	MIL 188-141A daily
USKA	7000.0	1830	01	12		LNGKNF	MFSK8	125	1750	MIL 188-141A daily
USKA	7000.0	0414	02	12		MEDOPS	MFSK8	125	1750	MIL 188-141A daily
USKA	7000.0	1843	15	12		R24747	MFSK8	125	1750	MIL 188-141A
USKA	7000.0	1843	01	12		R26636	MFSK8	125	1750	MIL 188-141A
USKA	7000.0	1555	17	12		R26799	MFSK8	125	1750	MIL 188-141A
USKA	7000.0	2320	01	12		R26871	MFSK8	125	1750	MIL 188-141A
USKA	7000.0	1654	15	12		R27016	MFSK8	125	1750	MIL 188-141A
USKA	7000.0	1656	15	12		RED	MFSK8	125	1750	MIL 188-141A
USKA	7000.0	1523	28	12		VENT05	MFSK8	125	1750	MIL 188-141A
USKA	7000.0	2133	30	12			J3E-U			unid language
USKA	7001.5	2120	20	12			FMCW		~2900	continuous sweep signal
USKA	7003.0	2118	30	12			F1B	50	200	unid
USKA	7012.0	1212	28	12			F1B	75	250	unid
USKA	7018.0	1457	02	12	RUS		F1B	50	530	unid (ID in F1A)
USKA	7018.0	1342	03	12	RUS	REA4	F1B	50	1000	unid (ID in F1A) daily
USKA	7018.0	1625	29	12	RUS	REA4	F1A		1000	daily
USKA	7021.0	1454	02	12			J7D	12x120	2700	CIS 12 idling only
USKA	7033.0	2248	30	12			FMCW	66.66	10 kHz	OTHR, PD 3.8s, PRI 35s
USKA	7038.7	1815	01	12	UKR	D	A1A			Beacon D Sevastopol daily
USKA	7038.8	1916	01	12	RUS	P	A1A			Beacon P Kaliningrad daily
USKA	7038.9	1817	01	12	RUS	S	A1A			Beacon S Murmansk daily
USKA	7039.0	1818	01	12	RUS	C	A1A			Beacon C Moscow daily
USKA	7039.3	1501	02	12	RUS	K	A1A			Beacon K Petropavlovsk daily
USKA	7039.4	1819	01	12	RUS	M	A1A			Beacon M Magadan daily
USKA	7044.0	1246	15	12	RUS		A1A			fast dots only daily
USKA	7054.0	1813	01	12	RUS		F1B	50	200	unid (Moscow) daily
USKA	7058.0	2052	30	12			FMCW	66.66	10 kHz	OTHR, PD 3.8s, PRI 35s
USKA	7088.8	1429	07	12			A1A			unid, no ham content daily
USKA	7089.0	1044	10	12			J7D	12x120	2700	CIS 12 idling
USKA	7089.9	1417	07	12			F1C	60 rpm		Wefax 60 rpm IOC 576 daily
USKA	7098.0	1209	01	12			F1B	75	250	unid
USKA	7102.0	1407	01	12			J7D	12x120	2700	PSK-4: CIS 12 = AT3104D
USKA	7105.0	2202	01	12			A3E			BC: 2 stations (in Chinese) daily
USKA	7112.0	0912	22	12			J7D	12x120	2700	PSK-4: CIS 12 = AT3104D often
USKA	7120.0	1512	02	12			A3E			BC daily
USKA	7141.0	1644	09	12			A3E			BC (weak)
USKA	7141.875	1047	10	12			A1A			N0N + A1A senseless (Jammer)
USKA	7142.0	1046	10	12			F1B	75	250	unid
USKA	7158.0	2242	30	12			FMCW	66.66	10 kHz	OTHR, PD 3.8", PRI 35"
USKA	7159.0	1406	07	12			F1B	75	250	unid
USKA	7165.0	1647	09	12			A3E			BC (weak) daily
USKA	7175.0	1811	01	12	ERI		A3E			Voice of the broad Masses daily
USKA	7175.0	1539	15	12			Noise		10 kHz	Jammer (± 5kHz)
USKA	7176.0	1042	14	12			F1B	75	200	unid
USKA	7185.0	1509	02	12			A3E			BC: unid (weak) daily

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	7188.0	1253	15	12			J7D	12x120	2700	PSK-2: CIS 12 = AT3004D
USKA	18118.5	1441	21	12			F1B	600	600	ARQ system often

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

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
VERON	3522,0	19.31	9	12		UiPtr	F1B		250	Ptr
VERON	3524,0	14.11	8	12		UiPTR	F1B			Ptr
VERON	3553,00	19.30	9	12		Stanag				Stanag 4285
VERON	3557,0	17.43	8	12		UiPTR	F1B			Ptr
VERON	3593,7	23.00	15	12	UKR	D	A1A			beacon D
VERON	3770,0	18.12	11	12		UiPtr	F1B		250	Printer
VERON	3782,0	18.09	11	12	POR	CTP	F1B		850	Printer
VERON	3797,0	18.07	11	12		UiPtr	F1B		250	Printer
VERON	7015,0	10.46	6	12	RUS	RLO	A1A			XXX RLO PODAROK 01 1340 1326 K
VERON	7015,0	10.58	8	12	RUS	RLO	A1A			XXX RLO PODAROK 011040 080 090 1350
VERON	7015,0	12.01	8	12	RUS	RLO	A1A			XXX RLO PODAROK 011010 140 315 1455
VERON	7015,0	10.05	9	12	RUS	RIT	A1A			RLO de RIT QTC 667 34 9 1257 667=
VERON	7015,0	10.05	9	12	RUS	RIT	A1A			RADIOPROGNOZ 5F AR
VERON	7015,0	10.58	8	12	RUS	RLO	A1A			XXX RLO PODAROK 01 1040 090 1350 K
VERON	7017,5	15.57	9	12	RUS	UiPtr	F1B		1k	Dotter; bad filter; also day 10, 11
VERON	7018,0	20.05	7	12	RUS	REA4	F1B	50	1000	Ptr/Revs Airfoce Moscow
VERON	7018,0	17.40	8	12	RUS	REA4	F1A			5F (Followed by F1B Revs)
VERON	7018,0	11.42	30	12	RUS	REA4	F1A			5F (Followed by F1B Revs)
VERON	7018,0	14.47	26	12	RUS	REA4	A1A			XXX REA4 29681 skorpion 2421 3841 K
VERON	7018,0	14.39	30	12	RUS	REA4	F1A		1000	REA4 30140 20069 etc 5F= REA\$ K
VERON	7018,5	16.16	2	12	RUS	UiPtr	F1B		500	Dotter
VERON	7021,0	16.14	2	12		OTHR	PON			Spikes 200Hz, 40pps; 3k spread
VERON	7036,5	H24	vd	12		UiMUX	J7D			very harmful QTH?
VERON	7038,7	04.50	vd	12	UKR	D	A1A			19.25 utc, 7 days, beacon Sevastopol Navy
VERON	7038,9	07.07	20	12	RUS	S	A1A			beacon S Murmansk
VERON	7038,9	15.55	9	12	RUS	S	A1A			Beacon Moscow
VERON	7039,0	04.51	vd	12	RUS	C	A1A			17.20 utc, 4 days beacon C nr Moscow
VERON	7039,2	16.27	8	12	RUS	F	A1A			F-beacon
VERON	7039,2	08.24	30	12	RUS	F	A1A			F-beacon
VERON	7039,4	07.22	vd	12	RUS	M	A1A			16.26 utc, beacon Madagan, 8 days
VERON	7039,4	15.54	9	12	RUS	M	A1A			Beacon Magadan
VERON	7044,0	14.17	26	12	RUS	UiCW	A1A			dotter
VERON	7054,0	04.55	vd	12	RUS	UiPtr	F1B	50	200	05.00 utc, 3 days, Ptr/Revs
VERON	7054,0	07.00	vd	12	RUS	UiPtr	F1B		250	19.50 utc, Revs/Ptr, 3 days,
VERON	7054,0	07.55	5	12	RUS	UiPtr	F1B		250	Revs, off air at 07.59 utc
VERON	7056,0	07.46	1	12		8SIQ	A1A			XXX 8SIQ 18726 SERPIA 1281 8443 K
VERON	7056,0	07.59	1	12		FUNL	A1A			v's
VERON	7056,0	07.40	3	12		FUNL	A1A			to WEZ6 ZGT ZPH QYT4 K
VERON	7056,0	08.03	1	12		FUNL	A1A			to K5KQ WEZ6: proc
VERON	7056,0	08.14	1	12		FUNL	A1A			to LKZ7 LEZ3 WQYB WNNM JZJ6 proc

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
VERON	7056,0	08.03	3	12		FUNL	A1A			to K5KQ WEZ6: WQYB WNNM, proc
VERON	7056,0	08.19	3	12		8SIQ	A1A			XXX 8SIQ etc
VERON	7056,0	08.13	5	12		FUNL	A1A			to WQYB WNNM JZJC (etc) proc
VERON	7056,0	07.47	21	12		9VK9	A1A			to IGCH: calls
VERON	7056,0	11.26	21	12		9VK9	A1A			5BL (=cyrillic letters)
VERON	7069,0	20.31	11	12						Frequency hopper
VERON	7089,0	09.05	10	12		UiCW	A1A			5F
VERON	7089,0	17.51	11	12		UiMux	PSK8			2k6 spread
VERON	7098,0	08.58	15	12		UiPtr	F1B		250	Ptr
VERON	7098,0	12.26	30	12		UiPtr	F1B		250	Ptr
VERON	7100,0	10.16	13	12		UiPtr	F1B		200	Revs
VERON	7105,0	22.12	24	12		UiBC	A3E			BC Chinese speech ?
VERON	7120,0	16.04	2	12		UiBC	A3E			East Asian Music/Speech; s5
VERON	7144,0	09.00	10	12		UiMUX	J7D			12 MPSK AT-3004-D
VERON	7144,0	10.23	11	12	IRL	UiILL	J3e-U			English, male, qsy after being asked
VERON	7175,0	04.45	vd	12		UiBC	A3E			19.14 utc, 5 days, Arabic speech-music
VERON	7175,0	19.21	25	12		UiBC	A3E			speech
VERON	7175,0	17.57	10	12	ERI	VBME	A3E			East African speech
VERON	7175,0	17.42	11	12	ERI	VBME	A3E			East African speech; s6
VERON	7176,0	10.05	14	12		UiPtr	F1B		250	Ptr
VERON	7176,0	10.15	20	12		UiPtr	F1B		250	Ptr
VERON	7188,0	vt	vd	12		UiPtr	F1B		250	4 days, Ptr
VERON	7200,0	17.48	vd	12		UiBC	A3E			21.10 utc, 7 days, BC Arabic speech
VERON	7200,0	17.54	10	12	IRN	IRIB	A3E			s9
VERON	7200,0	21.09	18	12	IRN	IRIB	A3E			Spanish speech; s9+20; splatter 8k down
VERON	10101,0	09.07	30	12		UiPTR	F1B			Ptr
VERON	10112,0	15.57	2	12	TUR	UiMux	PSK8			Stanag; spread 2k6; also day 8, 9
VERON	10121,0	11.38	27	12		UiPtr	F1B		250	Ptr
VERON	10123,0	10.55	10	12		UiPTR	F1B			Revs/Ptr
VERON	10125,5	10.58	10	12		UiCW	F1A			5F
VERON	10130,0	09.25	6	12		UiPTR	F1B			Ptr Baudot/ITA2
VERON	10130,0	09.02	30	12		UiPTR	F1B			Ptr
VERON	14022,0	10.57	18	12						Frequency hopper
VERON	14105,0	14.04	7	12						frequency hopper
VERON	14105,0	14.25	8	12		UiMux	PSK2			Bursts
VERON	14110,0	15.25	11	12		UiMux	PSK4			Bursts
VERON	14110,5	14.27	8	12		UiMux	PSK2			
VERON	14211,6	14.41	1	12	E	UiPtr	F1B	50	450	Weather report Canarios SFWM
VERON	18094,8	14.25	1	12		UiCar	A3E			Persistent carrier mod 100Hz; s7
VERON	18145,0	14.55	11	12		OTHR	PON			50pps system; 20k spread
VERON	21122,0	11.55	30	12		UiILL	J3e-U			French, male voices, fishery?
VERON	21133,5	13.39	14	12		UiLL	J3E-u			vocoder scrambled speech
VERON	21218,0	14.10	8	12		OTHR	PON			100pps; 5k spread

# 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)

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