



# Monitoring System

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The monthly newsletter for Region 1

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## The members of the IARUMS Region 1 Monitoring Team:



## Acknowledgements

++ ARI: DH7SA – Salvatore ++ ARSK: 5Z4NU - Ted ++ DARC: DJ9KR - Uli ++ EARA: SU1KM – Mohamed ++  
++ IRTS: EI4GXB - Ger ++ MARL: 9H1M – Dominic ++ MRASZ: HA7PL - Laci ++ NARS: 5N9AYM – Yusuf ++  
++ OEVSV: OE3DMA – Alex ++ RAL: OD5RI – Riri ++ REP: CT4AN – Jose and CT1JTQ – Angelo ++  
++ RSGB: G4BOH - Chris ++ SARI: ZS4SM - Malcolm ++ SRAL: OH2BLU - Pekka ++ URE: EA1AHO - Jose ++  
++ USKA: HB9CET - Peter ++ VERON: PA0GRU - Dick ++ G3VZV – Graham (satellite intrusions) ++  
++ TG9AJR – Juan (Co-ordinator Region 2) ++ VU2UR - Arasu (Co-ordinator Region 3) ++  
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++ DARC (server support) ++ various European PTTs ++ 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

Screenshots and measurements: DK2OM with Wavecom decoders or Perseus

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## Part 1: News and Infos

### 1. Strong interference by a neighbored Plasma TV – the endless story ...

My daily monitoring work is severely affected by a neighbored Plasma TV since more than one year. The range from 100 kHz to 30 MHz is concerned from 06 – 24 UTC and later!

### 2. WX-fax on 7089.5 kHz

The WX-fax on 7089.58 kHz (now!) is still daily active, but now at 1238 utc.

Parameters: 60 rpm and IOC 576. Location: Sevastopol, Ukraine (possibly from the Russian naval base). An official complaint of the German PTT (BNetzA) was disregarded.

### 3. BC on 7100 – 7200 kHz

DJ9KR has collected and evaluated all datas. Great job, dear Uli! We will keep you informed.

On 7165 / 7175 kHz Radio Ethiopia is disturbing Radio Eritrea by white noise transmissions daily.

Detailed infos: <http://www.iarums-r1.org> left side “Illegal BC on 7100 – 7200”!

### 4. Codar HF Radar on 24 MHz

I found a Codar HF radar on 24850 – 24950 kHz (AFU-band: 24890 – 24990). A large part of our band was disturbed by the Codar HR radar from Portici, close to Naples in Italy and also from the Codar in Croatia on May 31<sup>st</sup>. IK8OZZ, Luigi, confirmed my observations and phoned the concerned operators in Portici. After his complaint the signals from Portici disappeared from our band. But few days later our band was again disturbed by a Codar from Croatia. No amateur but me noticed the system or sent me any complaint. We were not amused. Anyway: It will be necessary to observe our 24 MHz-band every day! Many thanks to the German PTT (BNetzA) in Konstanz for the excellent bearings and official complaints.

(screenshot below) – General Codar info: <http://www.codar.com/>

### 5. CIS taxi cabs again on 28 MHz

Caused by improving conditions ( $E_s$  – conditions) we found again many CIS taxi-cabs with illegal transmissions in FM between 28 – 29.7 MHz.

### 6. Illegal driftnet buoys:

Many illegal driftnet buoys could be logged between 28000 and 28500 kHz from the Adriatic Sea. You can hear a rising tone followed by a CW-ident (1, 2 or 3 letters).

Info: <http://www.iarums-r1.org/iarums/buoys.pdf>

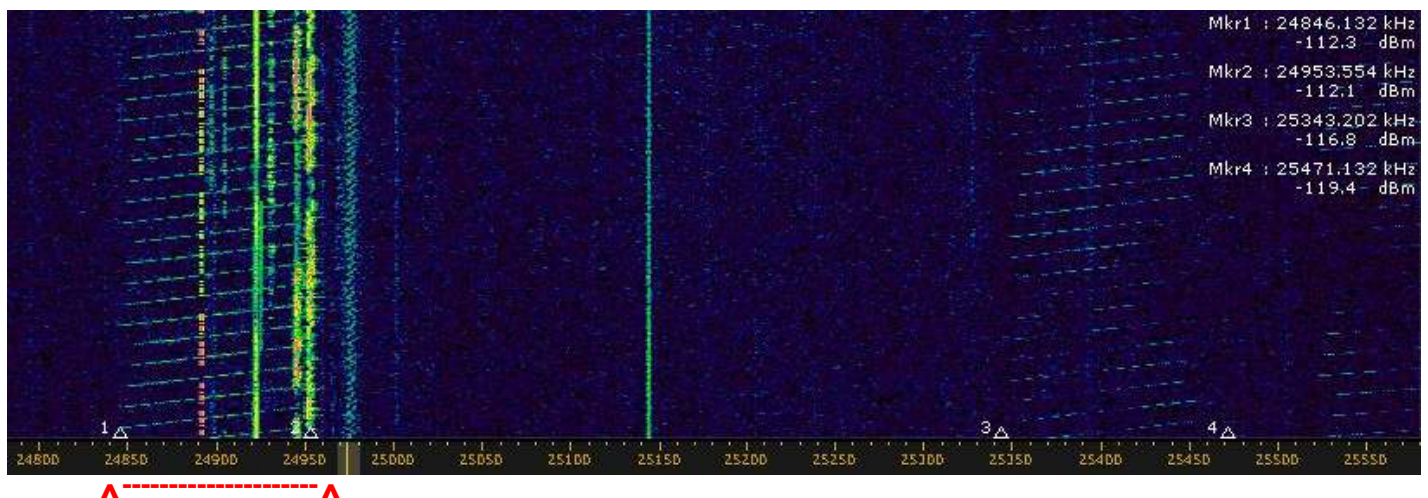
### 7. HA7PL – Laci is back

HA7PL (Laci) is back from the hospital. We wish you a good recovery dear Laci!

### 8. New Search Engine „Wolfram Alpha“ for scientists!

<http://www.wolframalpha.com/>

24 MHz sonagram from Perseus – date: May 17<sup>th</sup> and May 31<sup>st</sup>, 2009  
left: The Codar radar is disturbing 24850 – 24950 kHz. (Perseus)



### 9. Homepage IARU Region 1

<http://www.iaru-r1.org/>

new and excellent!

Homepage IARUMS Region 1 <http://www.iarums-r1.org>

Homepage IARUMS Region 2 <http://www.intruder-watch.org/>

new and excellent!

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 REPORT FOR May, 2009

Six broadcast stations in eastern Africa have been identified on the 40 meter band between 7100 and 7200 kHz. Ethiopia has two, for internal and external services, Uganda one, Hargeisha (Rep. of Somaliland) one, Eritrea (VOBM) has one and has moved from 7100 to 7175 kHz, and Sudan (Khartoum) has one. I am very grateful to the BBC Monitoring Service for their assistance, language being a problem. Another station in a Chinese language on 7130 kHz remains to be identified but is not easily monitored. Whether Mandarin, Cantonese or another is not known, but very few listeners in this part of the world will understand it.

Two weeks monitoring at the coast were not very productive, but a few Somalia stations were heard in generally poor propagation conditions. Otherwise the usual southern Sudan intruders, including NGOs were heard, and some Ethiopians on 40 meters. What is apparently a military net on 6999 kHz remains in operation, as well as an Ethiopian on the same frequency.

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	6999.0	vt	dly	5	ETH?	UiPHONE	J3E	Amharic. Spreads into 40 m. band.
ARSK	6999.0	vt	dly	5	KEN? UGA? TZA?	UiPHONE	J3Eu	KiSwahili. Military procedures, message traffic. Spreads above 7000 kHz.
ARSK	7000.0	0826	29	5	SOM	UiPHONE	J3E	Somalis.
ARSK	7000.0	vt	*	5	SDN?	UiPHONE	J3E	English, KiSwahili. NGO? Message traffic, phonetics *11,20,28,
ARSK	7011.0	vt	*	5	SOM	UiPHONE	J3Eu	Somalis.*3,6,
ARSK	7012.0	vt	dly	5	SOM	UiPHONE	J3Eu	Somalis.
ARSK	7014.0	0544	27	5	SOM	UiPHONE	J3Eu	Somalis. Calling Obbio.
ARSK	7017.0	vt	*	5	SOM	UiPHONE	J3Eu	Somalis.*3,
ARSK	7022.0	vt	*	5	SOM	UiPHONE	J3Eu	Somalis. *3,9,29,
ARSK	7025.0	0600	7	5	SOM	UiPHONE	J3Eu	Somalis.
ARSK	7026.0	vt	dly	5	SDN	Twiga, T1, K1, AK,	J3Eu	NGO, English message traffic, esp. air movemets. SelCal.
ARSK	7027.0	vt	*	5	SOM	UiPHONE	J3Eu	Somalis.*25,27,31.
ARSK	7028.0	vt	*	5	SOM	UiPHONE	J3Eu	Somalis.*6,29,
ARSK	7030.0	0832	29	5	SOM		J3Eu	Somalis.
ARSK	7032.0	vt	*	5	SDN	UiPHONE	J3E	S. Sudan? NGO? SelCal. *6,
ARSK	7040.0	0531	27	5	SOM	UiPHONE	J3E	Somalis.
ARSK	7040.0	vt	*	5	ETH	UiPHONE	J3Eu	Amharic.*27,
ARSK	7042.0	vt	*	5	SOM	UiPHONE	J3Eu	Somalis.*7,
ARSK	7045.0	0829	29	5	SOM	Kismayu	J3Eu	Somalis.
ARSK	7045.0	vt	dly	5	SDN	MM, NE, NU, AA, AK, AJ, AL, AT, AO, DU, WL1, WL2, WL4,WL5,WL6, WL9, WL10, BR, WM, NU, MAJ, Ikola? Kabwe, Kalulu	J3E J3Eu	Vernacular, Dholuo? English, phonetics. SelCal. Sudan, NGO, SPLA or SNLA? Sends messages in phonetic five letter groups, probably a single-substitution cypher. Once heard sendig five letter code groups, presumably an encrypted mssage.

H'd by	kHz	utc	dd	mm	ITU	Identity	MODE	Details
ARSK	7046.0	vt	*	5	SOM	UiPHONE	J3Eu	Somalis.*7,
ARSK	7048.0	vt	dly	5	SDN	WA, S, T, SM, AU, PK, PS, AC, BC, B3, B7, B8, B9, B15,CC, Malakal, Yambio,	J3E	English, vernacular, verbal Morse. NGO or SPLA? Some Arabic heard.
ARSK	7052.0	0535	27	5	ETH	UiPHONE	J3Eu	Amharic. No identification.
ARSK	7056.0	vt	*	5	SOM	Galkayu	J3Eu	Somalis. *25,27,
ARSK	7061.0	0538	27	5	SOM	UiPHONE	J3Eu	Somalis. Bardera mentioned.
ARSK	7062.0	1331	9	5	SOM	UiPHONE	J3Eu	Somalis.
ARSK	7057.0	vt	*	5	SOM	UiPHONE	J3Eu	Somalis. *9,29,
ARSK	7062.0	0908	3	5	SOM	UiPHONE	J3Eu	Somalis.
ARSK	7066.0	vt	dly	5	SDN	B1, B2, AT,K1, KT, CT, TI, BT, B2, KR, JT, P1, LL, LA, A25, BJ, RK1, RK2, KA	J3E	S. Sudan. English, & Nilotic language. NGO? Also uses 5712 KHz.
ARSK	7066.0	vt	*	5	SOM	UiPHONE	J3Eu	Somalis.*9,24,
ARSK	7069.0	0609	7	5	SOM	UiPHONE	J3Eu	Somali station calling Garissa, no reply.
ARSK	7070.0	vt	dly	5	SOM ERI	Asmara, Afmadu, Dobleh, Baidoa, Merere, Garoe, Burhane, Mogadishu, Kismayu, Beletwein	J3Eu	Somalis. SelCal.
ARSK	7072.0	0523	25	5	SOM	UiPHONE	J3Eu	Somalis.
ARSK	7075.0	0800	6	5	SOM	UiPHONE	J3Eu	Somalis.
ARSK	7080.0	0600	3	5	SOM	UiPHONE	J3Eu	Somalis.
ARSK	7084.0	0610	7	5	SOM	UiPHONE	J3Eu	Somalis.
ARSK	7085.0	0910	3	5	ZAI?	UiPHONE	J3Eu	Vernacular.
ARSK	7089.0	0830	dly	5	SOM	UiPHONE	J3Eu	Somalis. Switches sidebands.
ARSK	7090.0	0935	6	5	ZAI	UiPHONE	J3Eu	French.
ARSK	7092.0	vt	*	5	SOM	UiPHONE	J3Eu	Somalis.*3,29,
ARSK	7094.0	1243	31	5	SOM	UiPHONE	J3Eu	Somalis.
ARSK	7110.0	vt	dly	5	ETH	Addis Ababa	A3E	Domestic broadcast, Addis Ababa, Ethiopia
ARSK	7130.0	1548	28	5	?	UiBC	A3E	Broadcast, unidentified Chinese language. China or Taiwan.
ARSK	7145.0	1248	dly	5	Rep of SOM	Hargeisha	A3E	Broadcast. Rep. of Somalia, Hargeisha.
ARSK	7165.0	vt	dly	5	ETH	Addis Ababa	A3E	External broadcast. Addis Ababa, Ethiopia.
ARSK	7175.0	vt	dly	5	ERI	VOBM	A3E	Broadcast, Voice of The Broad Masses, Eritrea. (From 7100 kHz.)
ARSK	7195.0	vt	dly	5	UGA	Kampala	A3E	Broadcast, Radio Uganda
ARSK	7200.0	vt	dly	5	SDN	UiBC	A3E	Broadcast in Arabic, Khartoum.
ARSK	10150.0	0824	29	5	SOM	UiPHONE	J3Eu	Somalis.

### DARC – Germany – Part 1 – DJ9KR (Uli) / DK2OM (Wolf)

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	REMARKS
DARC	1810,0	2046	02	05	J3E-U	E	UiILL	Spanish fishery
DARC	3500,0	vt	vd	05	J3E-U	G	UiILL	UK fishery heard 23 24 at 2004, 2125
DARC	3520,0	1848	04	05	J3E-U	E	UiILL	fishery
DARC	3520,0	2039	20	05	J3E-U	N.Eu	UiILL	male person in Scandinavian language, engine noise
DARC	3520,0	vt	vd	05	J3E-U	RUS / UKR	UiILL	female persons in Russian voice, heard 01 04 at 1951, 1920
DARC	3535,0	1959	01	05	J3E-U	G	UiILL	UK fishery



CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	REMARKS
DARC	3535,0	2133	12	05	J3E-U	HOL	UiILL	Dutch fishery
DARC	3550,0	0711	06	05	A3E	F	UiILL	French lis amateurs, daily - IARU: no AM in this range, only CW
DARC	3550,0	0718	14	04	A3E	F	French Lis Amateurs	daily in AM
DARC	3551,0	1947	21	05	J3E-U	F	UiILL	French fishery
DARC	3565,0	0800	05	05	J3E-U	G	UiILL	British fishery
DARC	3595,0	1901	22	05	J3E-U	UKR	UiILL	UKR MIL, male to female
DARC	7000,0	0655	07	05	J3E-U		UiILL	unid male and female persons
DARC	7000,0	1010	14	05	J3E-U	F	Sierra?203, Veilleur	station Veilleur calling Sierra?203 and asking "comment recu?" (how received?)
DARC	7000,0	vt	14	05	J3E-U	I	IZ5IO?/1	2 male voices in Italian "barrato uno" "when signing off wishing "buona navigazione" - heard 0811 - 0814
DARC	7000,0	1430	21	05	J3E-U	G	UiILL	British fishery
DARC	7000,0	0803	30	05	J3E-U	POR	UiILL	pirates in Portuguese voice
DARC	10101,0	1523	08	05	J3E-U	F.Ea	UiILL	Far East pirates
DARC	10101,0	1655	08	05	J3E-U	MRC	UiILL	Moroccan fishery
DARC	10102,0	1224	14	05	J3E-U	E / POR	UiILL	2 male persons in Spanish (or is it Portuguese?) voice
DARC	10125,0	0900	dly	05	J3E-U	F		French amateurs, not respecting bandplans of IARU R1
DARC	10150,0	1722	27	05	J3E-U	E	UiILL	male persons in Spanish voice - is just outside ham band!
DARC	10150,0	0740	29	05	J3E-U	E	UiILL	male persons in Spanish voice - is just outside ham band!
DARC	10150,0	vt	vd	05	J3E-U	E	UiILL	Spanish fishery, heard 16 23 29 at 0803, 2120, 1704
DARC	14000,0	0858	04	05	J3E-U		UiILL	male person in English voice "okay" "roger"
DARC	14000,0	1409	08	05	J3E-U	GRC	UiILL	pirates in Greek voice
DARC	14000,0	1732	11	05	A3E	ISR	YHF2	female synthetic voice spelling "Yankee Hotel Foxtrot Two" - is Mossad
DARC	14000,0	1558	16	05	J3E-U	RUS	UiILL	male person in Russian voice
DARC	14000,0	1908	21	05	A3E	ISR	UiILL	female synthetic voice spelling, - is Mossad
DARC	14000,0	1749	24	05	J3E-U		UiILL	men in Arabic voice, roger beep
DARC	14000,0	0900	27	05	J3E-U	F.Ea	UiILL	Far East pirates
DARC	14000,0	vt	vd	05	J3E-U	CLN	UiILL	Tamil pirates heard 02 11 a 1107, 0724
DARC	14000,0	vt	vd	05	J3E-U	Af	UiILL	male and female net, heard 11 12 13 at 1042 - 1654, speaking African tribal language
DARC	14011,0	1106	20	05	J3E-U	E / POR	UiILL	male to female in Spanish (or is it Portuguese?) voice
DARC	21000,0	1823	29	05	J3E-U	MRC	UiILL	Moroccan fishery
DARC	21010,0	2010	05	05	J3E-U	E	UiILL	Spanish fishery
DARC	21310,5	vt	31	05	J3E-U	D	UiILL	large net in Spanish voice, possibly fishery, engine noise - heard 1552 - 1700
DARC	28005,0	1747	10	05	F3E	RUS	UiILL	taxi business
DARC	28035,0	1914	18	05	F3E	RUS	UiILL	taxi cab
DARC	28125,0	0924	13	05	A3E	E	UiILL	Spanish CB-ers
DARC	28135,0	0745	29	05	A3E	E	UiILL	large net in Spanish voice, roger-beeps used
DARC	28140,0	1626	15	05	A3E	E	UiILL	Spanish CB-ers
DARC	28155,0	1657	04	05	F3E	RUS / UKR	UiILL	taxi business
DARC	28175,0	1956	28	05	A3E	F	UiILL	French CB-ers
DARC	28185,0	1736	14	05	A3E	E	UiILL	Spanish CB-ers
DARC	28195,0	0950	19	05	A3E	RUS	UiILL	CB-ers in Russian language, famiy traffic, roger beep
DARC	28210,0	1630	15	05	A3E	E	UiILL	Spanish CB-ers
DARC	28275,0	1747	10	05	F3E	RUS	UiILL	taxi business

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	REMARKS
DARC	28275,0	0753	29	05	A3E	E	UiILL	net in Spanish voice, roger-beeps used
DARC	28295,0	1847	13	05	F3E	RUS	UiILL	taxi cab
DARC	28300,0	1015	23	05	F3E	RUS	UiILL	taxi cab
DARC	28305,0	2108	10	05	F3E	RUS	UiILL	taxi cabs
DARC	28305,0	0753	29	05	A3E	E	UiILL	net in Spanish voice, roger-beeps used
DARC	28375,0	0720	20	05	F3E	RUS / UKR	UiILL	taxi cabs or gas supply lorries
DARC	28905,0	1750	10	05	F3E	RUS	UiILL	taxi cabs

### DARC – Germany – Part 2 – DK2OM (Wolf) / Dj9KR (Ui)

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	REMARKS AND OBSERVATIONS
DARC	1813,0	1932	04	05	A3E	POL	Polish Pip			10 tones, POL Navy, location North Poland
DARC	1896,5	ady	dly	05	G7D	D	German Navy Ruegen	2k4		Stanag-4285, 2k4, 8PSK, 600 bps, is German Navy Ruegen - <b>LEGAL!</b>
DARC	3510,0	1919	06	05	F1B	UKR	UiPTR	81	250	unid printer
DARC	3515,0	0710	06	05	G7B		UiMUX			frequency hopper
DARC	3516,0	2129	24	05	G7B		UiMUX			frequency hopper
DARC	3517,0	0743	20	05	G7B		UiMUX			frequency hopper
DARC	3527,0	vt	vd	05	J7D	BLR	UiMUX	120		MPSK-12, AT-3004-D, heard 22 24 at 2007, 2017 - location NW BLR
DARC	3532,0	2007	14	05	F1B	UKR	UiPTR	81	250	unid printer, location area of Odessa
DARC	3544,8	2014	20	05	G7D	TUR	UiMUX			Stanag-4285, 2k4, 8PSK - location Ankara
DARC	3550,0	0805	04	04	A3E	F	French Lis Amateurs			no BC but French lis Amateurs in AM, daily
DARC	3550,0	vt	vd	04	A3E	F	French Lis Amateurs			no BC, but French Lis Amateurs, not conform to bandplan of IARU: no AM in CW section
DARC	3556,8	2000	23	05	G7D	POR	UiMUX	2k4		Stanag-4285, 2k4, 8PSK
DARC	3560,1	1936	01	04	A3E	KRE	Voice of Korea (North)			daily
DARC	3570,5	1907	08	05	F1B	BLR	UiPTR	81	240	unid printer located West of Minsk
DARC	3602,7	1925	06	05	G7D	D	UiMUX	2k	1800	RFSM-2000, 2000 Bd 1800 Hz shift, 8PSK, location Munich
DARC	3605,5	2023	20	05	A1A	UKR	UiCW			five figure groups, encrypted, location Lvov
DARC	3607,0	1950	01	05	G7B		UiMUX			frequency hopper
DARC	3608,0	vt	vd	05	F1B	POL	UiPTR	50	200	unid printer heard 04 06 14 at 1924, 1937, 2150
DARC	3611,8	1949	01	05	J7D	F	UiMUX			Link-11, area of Paris
DARC	3611,8	1959	21	05	J7D	SCG	UiMUX			Link-11, Serbia
DARC	3630,1	1933	21	05	G7D		UiMUX			Stanag-4285, 2k4, 8PSK
DARC	3744,7	2003	22	05	J7D	ISR	UiMUX	75		MIL-188-110A, Hybrid Modem, 75 Bd QPSK
DARC	3756,0	1947	01	05	A3E	UKR	The Pip			"Ukrainian Pip", 10 tones, dly all day
DARC	3782,0	1926	04	05	F1B	POR	CTP	75	850	POR Navy HQ Lisbon
DARC	7000,0	1914	05	05	N0N		UiCAR			long lasting carrier
DARC	7000,0	1254	14	05	J7D	RUS	UiMUX	120	2600	MPSK-12, AT-3004-D, location North Russia
DARC	7010,0	1431	05	05	FSK8	MKD	UiMUX	125	1750	ALE, selcall RS0011 - is MKD MIL, daily at

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	REMARKS AND OBSERVATIONS
										various times
DARC	7010,0	0744	28	05	J7D	RUS	UiMUX	120	2600	MPSK-12, AT-3004-D, location Moscow
DARC	7019,0	1510	14	05	A1A	RUS	RAL2			QTC to other stations of net - is Russian Navy
DARC	7020,0	0744	22	05	F1B	RUS	UiPTR	75	250	unid printer location East Russia
DARC	7033,0	1005	24	05	F1B	RUS	UiPTR	100	140	unid printer
DARC	7038,7	0856	01	05	A1A	UKR	beacon D			Sevastopol
DARC	7038,8	0854	01	05	A1A	RUS	beacon P			Kaliningrad
DARC	7038,9	2025	15	05	A1A	RUS	beacon S			Murmansk
DARC	7039,0	1600	23	04	A1A	RUS	Beacon C			Moscow
DARC	7039,1	0903	02	04	A1A	RUS	beacon A			Astrakhan
DARC	7039,8	0855	01	05	A1A	I	IZ3DVW			unwanted and not coordinated beacon
DARC	7050,0	0846	18	05	J7D	CIS	UiMUX	120	2600	MPSK-12, AT-3004-D
DARC	7075,0	0605	26	05	J7D	SUI	UiMUX			MPSK-12, AT-3004-D
DARC	7089,4	1240	dly	05	F1C	UKR	Weather-FAX			weather fax 60 rpm, IOC576, location Sevastopol - heard 1238 - 1240 - 25 reports 02 - 24
DARC	7088,0	1350	11	05	G7B		UiMUX			frequency hopper
DARC	7089,1	1300	20	05	A1A		UiCW			encrypted morse
DARC	7093,0	0847	18	05	F1B	RUS	UiPTR	100	140	unid printer, location Moscow
DARC	7094,0	0857	11	05	G7B		UiMUX			frequency hopper
DARC	7100,0	1900	13	05	A3E	KRE	Voice of Korea (North)			ann.: "This is Voice of Korea"
DARC	7100,0	1656	28	05	A3E	KRE	Voice of Korea (North)			S9-signal
DARC	7100,0	1805	29	05	A3E	KRE	Voice of Korea (North)			French px S7
DARC	7100,0	vt	dly	05	A3E	KRE	Voice of Korea (North)			heard 1830 - 2100
DARC	7102,0	1019	16	05	FSK8		Lis Radio Amateurs			ALE used by Amateurs - just info!
DARC	7105,0	2150	10	05	A3E	CHN	Nei Menggu PBS			report S.Hasegawa, NDXC
DARC	7105,0	2150	10	05	A3E	CHN	Nei Menggu PBS			report S.Hasegawa, NDXC
DARC	7105,0	1605	11	05	A3E	CHN	Nei Menggu PBS			report S.Hasegawa, NDXC
DARC	7105,0	2007	27	05	A3E	CHN	Nei Menggu PBS			S9+10dB-signal
DARC	7105,0	2007	27	05	A3E		UiBC			carrier S9
DARC	7105,0	vt	dly	05	A3E	CHN	R. China Nei Menggu PBS			heard 1500 - 2245
DARC	7105,0	vt	dly	05	A3E	TWN	CBS			active at irregular times
DARC	7106,0	0640	14	05	G7B		UiMUX			frequency hopper
DARC	7110,0	1610	08	05	A3E	ETH	R. Eritrea			Amharic voice - report H.F.Dumrese
DARC	7110,0	vt	10	05	A3E	ETH	R. Eritrea			heard 0259 - 0320 - report Brian Alexander, USA
DARC	7110,0	vt	13	05	A3E	ETH	R. Eritrea			heard 1618 - 1900

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	REMARKS AND OBSERVATIONS
										S9+10dB-signal
DARC	7110,0	1615	15	05	A3E	ETH	R. Eritrea			HOA music, S9
DARC	7110,0	vt	16	05	A3E	ETH	R. Eritrea			heard 1830 - 2025 S9+25dB
DARC	7110,0	2025	17	05	A3E	ETH	R. Eritrea			S9+10dB-signal
DARC	7110,0	1410	19	05	A3E	ETH	R. Eritrea			S1-signal
DARC	7110,0	1655	19	05	A3E	ETH	R. Eritrea			S9+10dB-signal
DARC	7110,0	vt	25	05	A3E	ETH	R. Eritrea			1656: HOA music, S9+10dB, 1837: S9+25dB
DARC	7110,0	0310	26	05	A3E	ETH	R. Eritrea			report VU2UR
DARC	7110,0	1735	26	05	A3E	ETH	R. Eritrea			S9+30dB
DARC	7110,0	vt	27	05	A3E	ETH	R. Eritrea			1210: S7, 1645: HOA music S9+20dB, 1700: nil, 2007: S9+15dB
DARC	7110,0	vt	27	05	A3E	ETH	R. Eritrea			1210: S7, 1645: HOA music S9+20dB, 1700: nil, 2007: S9+15dB
DARC	7110,0	vt	29	05	A3E	ETH	R. Eritrea			0733: S8, 1805: S9
DARC	7110,0	1650	31	05	A3E	ETH	R. Eritrea			S9+15dB-signal
DARC	7110,0	vt	dly	05	A3E	ETH	R. Ethiopia			heard 0355 - 0500, 1500 - 2100, at 1540 found // 7165
DARC	7110,0	vt	vd	05	A3E	ETH	R. Ethiopia			heard 08 10 15 20 22 27 29 30 at 1451 - 1649
DARC	7111,0	1044	05	05	F1B	RUS	UiPTR	75	250	unid printer location North Russia
DARC	7115,2	0955	20	04	F1B		UiPTR			unid printer
DARC	7116,0	0724	29	05	F1B	RUS	UiPTR	75	200	unid printer
DARC	7118,0	0630	14	05	J7D	RUS	UiMUX	120		MPSK-12, AT-3004-D
DARC	7120,0	vt	10	05	A3E	CHN	Xinjian PBS			heard 1030 - 1230, Kyrgys voice - report Sei-Ichi Hasegawa, J
DARC	7120,0	1618	13	05	A3E	CHN	Xinjian PBS			S1-signal
DARC	7120,0	vt	14	05	A3E	CHN	Xinjian PBS			Kirghiz 0330 - 0530, 1030 - 1230, location Urumqi - report Wolf Bueschel
DARC	7120,0	vt	24	05	A3E	CHN	Xinjian PBS			Kirghiz 0330 - 0530, 1030 - 1230, location Urumqi - has left 7120 and gone to 7295 - Wolf Bueschel DF5SX
DARC	7120,0	1735	26	05	A3E	CHN	Xinjian PBS			S0
DARC	7120,0	1805	29	05	A3E		UiBC			S1-signal
DARC	7120,0	vt	30	03	A3E		UiBC			heard 1204, 1552 (weak)
DARC	7122,0	1242	11		F1A		UiCW "RKA"	50	200	"DE RKA"
DARC	7122,0	1608	16	05	F1B	RUS	Station "RDL"	50	200	location Kaliningrad
DARC	7122,0	1243	vd	05	F1B	RUS	Station "RDL"	50	200	printer and fast reversals, heard 02 11 12 16 19 20 22 24 28 at 1110 - 1344
DARC	7125,0	0630	15	05	A3E	CHN	Xizang PBS			carrier S4
DARC	7125,0	1830	16	05	A3E	CHN	Xizang PBS			carrier S6
DARC	7125,0	2025	16	05	A3E	CHN	Xizang PBS			Chinese px S5
DARC	7125,0	2025	17	05	A3E	CHN	Xizang PBS			S7-signal
DARC	7125,0	1735	26	05	A3E	CHN	Xizang PBS			S0
DARC	7125,0	2007	27	05	A3E	CHN	Xizang			S9+10dB-signal



CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	REMARKS AND OBSERVATIONS
							PBS			
DARC	7125,0	1805	29	05	A3E	CHN	Xizang PBS			S1-signal
DARC	7125,0	vt	dly	05	A3E	CHN	Xizang PBS			QTH: Lhasa, heard 0642 - 0720, 1500 - 2245
DARC	7125,0	vt	dly	05	A3E	CHN	Xizang PBS			QTH: Lhasa, 1000 - 1805 - to 7255 - report DF5SX 24.05.
DARC	7125,0	vt	dly	05	A3E	CHN	Xizang PBS			QTH: Lhasa, 2050 - 0200 - to 7255-report DF5SX 24.05.
DARC	7125,0	vt	dly	04	A3E	CHN	Xizang PBS			Tibetan 1000 - 1805, 2050 - 0200, location Lhasa
DARC	7130,0	vt	01	05	A3E	CHN	Xizang PBS			Chinese px and also CBS, heard 1520 - 1655
DARC	7130,0	vt	10	05	A3E	TWN	RTI-CBS			heard 1400 - 1800 - jammed by CNR-1 - report S.Hasegawa, NDXC
DARC	7130,0	vt	10	05	A3E	CHN	CNR-1			heard 1400 - 1800 - jamming RTI-CBS - report S.Hasegawa, NDXC
DARC	7130,0	1510	12	05	A3E	CHN	CNR-1			Chinese px S6
DARC	7130,0	1618	13	05	A3E	CHN	CNR-1			2 different px in Chinese S9+10dB
DARC	7130,0	1618	13	05	A3E	TWN	RTI-CBS			2 different px in Chinese S9+10dB
DARC	7130,0	1615	15	05	A3E	CHN	CNR-1			2 different px in Chinese S8
DARC	7130,0	vt	25	05	A3E	CHN	CNR			1656 - 1703 (s/off), found // 7185
DARC	7130,0	vt	26	05	A3E	CHN	CNR-1			1617: Chinese S9, 1734: 2 different Chinese px S9+20dB - found // 7185
DARC	7130,0	vt	26	05	A3E	TWN	RTI-CBS			1617: Chinese S9, 1734: 2 different Chinese px S9+20dB - found // 7185
DARC	7130,0	vt	27	05	A3E	CHN	CNR1			1635: Chinese px S8, 1645 S9, 1705 2 px s/off
DARC	7130,0	vt	27	05	A3E	TWN	RTI-CBS			1635: Chinese px S8, 1645 S9, 1705 2 px s/off
DARC	7130,0	vt	27	05	A3E	CHN	CNR-1			1635: Chinese S8, 1645: S9, 1705: 2 px, 1735: s/off
DARC	7130,0	1656	28	05	A3E	CHN	CNR-1			Chinese px, another px in Chinese audible, found // to 11925
DARC	7130,0	1656	28	05	A3E	TWN	RTI-CBS			Chinese px, another px in Chinese audible
DARC	7130,0	1656	28	05	A3E	CHN	CNR-1			1656: 2px // 11925, S9
DARC	7130,0	vt	29	05	A3E	CHN	CNR-1			1700: S9+20dB // 7185
DARC	7130,0	1520	30	05	A3E	CHN	CNR-1			1520: Chinese px S6 // 7185
DARC	7130,0	1650	31	05	A3E	CHN	CNR-1			Chinese px, S9-signal
DARC	7130,0	vt	dly	05	A3E	TWN	CBS			30 dBuV, QTE 057 degs.
DARC	7130,0	vt	vd	05	A3E	CHN	CNR-1			heard 08 10 11 12 14 15 20 22 27 28 29 30 at 1435 - 1648
DARC	7132,0	0859	06	05	G7B		UiMUX			frequency hopper
DARC	7135,0	1510	12	05	A3E	BLR	R. Belarus			S5-signal, weak modulation
DARC	7135,0	1618	13	05	A3E	BLR	R. Belarus			S1-signal
DARC	7135,0	1900	13	05	A3E	BLR	R. Belarus			S7-signal
DARC	7135,0	1615	15	05	A3E	BLR	R. Belarus			carrier S7
DARC	7135,0	1830	15	05	A3E	BLR	R. Belarus			S8-signal

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	REMARKS AND OBSERVATIONS
DARC	7135,0	vt	16	05	A3E	BLR	R. Belarus			1830: S8 2023: S6
DARC	7135,0	2025	17	05	A3E	BLR	R. Belarus			S6-signal
DARC	7135,0	1655	19	05	A3E	BLR	R. Belarus			S8-signal
DARC	7135,0	vt	25	05	A3E	BLR	R. Belarus			1705: S0, 1837: weak modulation S9
DARC	7135,0	vt	26	05	A3E	BLR	R. Belarus			1617: S8, 1735: S1
DARC	7135,0	vt	27	05	A3E	BLR	R. Belarus			1705: carrier S6, 1815: Ru px S6, 2015: Ru px S9+20dB
DARC	7135,0	vt	27	05	A3E	BLR	R. Belarus			1656: S8, 1705: carrier S6, 1815: Ru px S6, 2015: Ru px S9+20dB
DARC	7135,0	vt	28	05	A3E	BLR	R. Belarus			1656: S8, 2015: S9+20dB, Russian px
DARC	7135,0	vt	29	05	A3E	BLR	R. Belarus			1700: S8, 1815: S4
DARC	7135,0	vt	30	05	A3E	BLR	R. Belarus			1520: carrier S7, 1955: carrier S9
DARC	7135,0	1650	31	05	A3E	BLR	R. Belarus			S6-signal
DARC	7135,0	vt	dly	05	A3E	BLR	Belarus Radio-1			QTH: Mahiljou Mogilev, heard 0600, 1545, 1653, 1520 - 1855 Ru px, 1943
DARC	7135,0	vt	vd	05	A3E	BLR	Belarus Radio-1			heard 22 28 29 30 at 1503 - 1612
DARC	7136,5	0738	20	05	F1B	RUS	UiPTR	100	140	unid printer, location Moscow
DARC	7136,8	2006	27	05	N0N		UiCAR			carrier
DARC	7139,0	1617	26	05	J7D		UiMUX	120		MPSK-12, AT-3004-D
DARC	7140,0	vt	10	05	A3E	KRE	Voice of Korea (North)			heard 0700 - 1250 - report S.Hasegawa, NDXC
DARC	7140,0	vt	10	05	A3E	RUS	Golos Rossiye			heard 1250 - 1500, Yakutsk - report S.Hasegawa, NDXC
DARC	7140,0	1830	16	05	A3E		UiBC			S7-signal
DARC	7140,0	1655	19	05	A3E		UiBC			S1-signal
DARC	7140,0	1540	26	05	J7D	RUS	UiMUX	120		MPSK-12, AT-3004-D, location Kaliningrad
DARC	7140,0	1805	29	05	A3E		UiBC			S1-signal
DARC	7145,0	1625	08	05	A3E	SOM	R. Hargeisa			Somalian ann., mx - report H.F. Dumrese
DARC	7145,0	1510	12	05	A3E	SOM	R. Hargeisa			music, S4
DARC	7145,0	1830	16	05	A3E	SOM	R. Hargeisa			S9+20dB signal
DARC	7145,0	1655	19	05	A3E	SOM	R. Hargeisa			HOA music, S9
DARC	7145,0	1502	22	05	JAM	ETH	R. Ethiopia			rushing noise
DARC	7145,0	vt	25	05	A3E	SOM	R. Hargeisa			1656: S9, 1837: S9+10dB
DARC	7145,0	0330	26	05	A3E	SOM	R. Hargeisa			Somalian Arabic fading out, not heard after 0400 - report VU2UR
DARC	7145,0	vt	26	05	A3E	SOM	R. Hargeisa			1617: S9, 1735: S9+10dB
DARC	7145,0	vt	27	05	A3E	SOM	R. Hargeisa			1645: S9+10dB, 1705: S9+10dB
DARC	7145,0	vt	27	05	A3E	SOM	R. Hargeisa			1645: S9+10dB, 1705: S9+10dB
DARC	7145,0	1656	28	05	A3E	SOM	R. Hargeisa			HOA music, S9-signal
DARC	7145,0	1656	28	05	A3E	SOM	R. Hargeisa			1656: HOA music S9
DARC	7145,0	vt	29	05	A3E	SOM	R. Hargeisa			1700: S9+15dB, 1805: S8
DARC	7145,0	1520	30	05	A3E	SOM	R. Hargeisa			Holy Quran recitals S8
DARC	7145,0	1650	31	05	A3E	SOM	R. Hargeisa			HOA music, S9-signal
DARC	7145,0	vt	dly	05	A3E	SOM	R. Hargeisa			heard 1400 - 1804 s/off
DARC	7145,0	vt	vd	05	A3E	SOM	R. Hargeisa			heard 10 15 22 28 30 at 1502 - 1647
DARC	7147,5	0623	14	05	F1B		UiPTR			unid printer
DARC	7155,0	vt	10	05	A3E	CHN	Xinjiang PBS			heard 0830 - 1200, Chinese - report

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	REMARKS AND OBSERVATIONS
										S.Hasegawa, NDXC
DARC	7155,0	vt	14	05	A3E	CHN	Xinjiang PBS			has left 7155 and gone to 7260 - report Olle Alm, Sweden
DARC	7155,0	vt	24	05	A3E	CHN	Xinjiang PBS			QTH: Urumqi - 0257 - 1205 - has left 7155 and gone to 7260 - report DF5SX 24.05.
DARC	7155,0	vt	dly	03	A3E	CHN	Xinjian PBS			QTH: Urumqi, very weak at 1150, also heard 1828
DARC	7160,0	1610	28	05	A3E		UiBC			unid language S9++
DARC	7160,0	vt	dly	03	A3E		UiBC			heard 0744, 0838 - 0927, 1333, 1545
DARC	7162,0	1542	26	05	F1B	RUS	UiPTR	75	250	unid printer, location Moscow
DARC	7165,0	1615	08	05	A3E	ETH	R. Ethiopia			En ann., mx - report H.F. Dumrese
DARC	7165,0	1510	12	05	A3E	ETH	R. Ethiopia			HOA music, S7
DARC	7165,0	vt	13	05	A3E	ETH	R. Ethiopia			1618: S9+10dB, 1900: S9+10dB
DARC	7165,0	1615	15	05	A3E	ETH	R. Ethiopia			2 px at the same time, S9
DARC	7165,0	1830	16	05	A3E	ETH	R. Ethiopia			S9+10dB-signal
DARC	7165,0	vt	19	05	A3E	ETH	R. Ethiopia			1410: S1, 1655: noise S9+20dB 10 kHz spread
DARC	7165,0	vt	25	05	A3E	ETH	R. Ethiopia			1656: S9+10dB, 1837: S1
DARC	7165,0	vt	26	05	A3E	ETH	R. Ethiopia			1617: S9, 1735: S9+10dB HOA music and Arabic voice
DARC	7165,0	1645	27	05	A3E	JAM	R. Ethiopia			white noise S9+20dB
DARC	7165,0	vt	27	05	A3E	ETH	R. Ethiopia			1210: S8, 1645: noise S9+20dB, 1705: noise
DARC	7165,0	1656	28	05	JAM	ETH	R. Ethiopia			rushing noise S9+15dB
DARC	7165,0	vt	29	05	A3E	ETH	R. Ethiopia			0733: HOA music S8, 1700: French px, HOA music S9+20dB, 1805: S9
DARC	7165,0	vt	30	05	A3E	ETH	R. Ethiopia			1520: S7, 1600 - 1630: English px, 1630 - 1800: noise, 1900 - 2000: Arabic px, 2000: s/off
DARC	7165,0	1650	31	05	A3E	ETH	R. Ethiopia			white noise 10 kHz spread
DARC	7165,0	vt	dly	05	A3E	ETH	R. Ethiopia			heard 1447 2 px S7, 1735 French S9
DARC	7165,0	vt	dly	05	A3E	ERI	R. Eritrea			1715 in heavy ham, 1826
DARC	7165,0	vt	vd	05	A3E	ETH	R. Ethiopia			heard 08 - 31 at 1243 - 1646
DARC	7166,0	1727	06	05	A1A		UiCW			encrypted figure groups
DARC	7166,0	0709	12	05	F1B	RUS	UiPTR	41	500	40,5 Bd, system FROST
DARC	7166,0	1739	26	05	A1A		UiCW			figures
DARC	7167,0	0943	20	05	F1B	RUS	UiPTR	75	250	unid printer, location Moscow
DARC	7170,0	vt	17	04	A3E	CHN	Xizang PBS			Lhasa, heard 1235, 1955, 2050
DARC	7170,0	1456	22	05	A3E	CHN	Xizang PBS			poor modulation, S7
DARC	7170,0	vt	24	04	A3E	CHN	Xizang PBS			QTH: Lhasa, 0900 - 1800, 2000 - 0300 Chinese px, - has left 7170 and gone to 7450 - report DF5SX 24.05.
DARC	7170,0	1640	26	04	A3E	CHN	Xizang PBS			found // 4820
DARC	7170,0	1745	27	05	A3E	CHN	Xizang PBS			1745: S3
DARC	7170,0	vt	dly	04	A3E	CHN	Xizang			QTH: Lhasa, 20 dBuV,

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	REMARKS AND OBSERVATIONS
							PBS			QTE 073 degs.
DARC	7175,0	1729	06	05	JAM	ETH	ETH-JAM			ETH jamming ERI BC with white noise, 9 kHz spread
DARC	7175,0	1510	12	05	A3E	ERI / ETH	VOBM / R. Ethiopia			S6-signal
DARC	7175,0	1615	13	05	A3E	ERI / ETH	VOBM / R. Ethiopia			music and noise 8 kHz spread
DARC	7175,0	1830	16	05	A3E	ERI	VOBM			S9+10dB-signal
DARC	7175,0	vt	25	05	A3E	ERI	VOBM			1656: S9+20dB, 1837: Ar px S9+30dB
DARC	7175,0	1617	26	05	A3E	ERI / ETH	VOBM / R. Ethiopia			1617: HOA music S9+10dB, 2 px at the same time
DARC	7175,0	vt	29	05	A3E	ERI / ETH	VOBM / R. Ethiopia			0733: Ar px S6, 1705: noise S9+20dB, 1732 - 1805: HOA music and Ar S8
DARC	7175,0	1512	30		JAM	ETH	R. Ethiopia			rushing noise 10 kHz spread, S9++
DARC	7175,0	1520	30	05	A3E	ERI / ETH	VOBM / R. Ethiopia			HOA music S7
DARC	7175,0	vt	30	05	A3E	ERI	VOBM			HOA music S7, Arabic voice heard 1731 - 1804 . Confirmed by Hani Raad OD5TE
DARC	7175,0	vt	dly	05	A3E	ETH	R Ethiopia			heard 1545 S9, 1851 HOA music S9, 1909
DARC	7175,0	vt	vd	05	A3E	ERI	VOBM / R. Ethiopia			heard 10 14 20 27 28 29 30 at 1442 - 1609
DARC	7176,0	0921	27	05	F1B	KAZ	UiPTR	50	250	unid printer
DARC	7180,0	1423	04	05	JAM	ETH	R. Ethiopia			rushing noise 10 kHz spread, S9++
DARC	7180,0	vt	dly	05	A3E	CHN	China Radio 1			px in English voice
DARC	7185,0	1721	05	05	A3E	CHN	China Radio 1			Chinese voice, 2 tx-ers, TWN and CHN, S8
DARC	7185,0	vt	10	05	A3E	TWN	RTI-CBS			heard 1000 - 1600, Chinese, jammed - report S.Hasegawa, NDXC
DARC	7185,0	1510	12	05	A3E	CHN	CNR1			2 different Chinese px S6
DARC	7185,0	1510	12	05	A3E	TWN	RTI-CBS			2 different Chinese px S6
DARC	7185,0	1620	13	05	A3E	CHN	CNR1			Chinese px S9+10dB
DARC	7185,0	1615	15	05	A3E	CHN	CNR1			2 different Chinese px S9, one px is // 7365
DARC	7185,0	1615	15	05	A3E	TWN	RTI-CBS			2 different Chinese px S9, one px is // 7365
DARC	7185,0	vt	19	05	A3E	CHN	CNR1			1410: S0, 1655: S9+10dB
DARC	7185,0	vt	25	05	A3E	CHN	CNR1			1656: S/off, 1700: only carrier left
DARC	7185,0	1617	26	05	A3E	CHN	CNR1			Chinese px // 7130, S9-signal
DARC	7185,0	vt	27	05	A3E	CHN	CNR1			1637: Chinese px S9, 1645: S9, 1700: S/off - found // 7130
DARC	7185,0	1656	28	05	A3E	CHN	CNR1			S9+20dB-signal, found // 11925, s/off at 1700
DARC	7185,0	1700	29	05	A3E	CHN	CNR1			1700: s/off
DARC	7185,0	1520	30	05	A3E	CHN	CNR1			1520: 2 px in Chinese S7
DARC	7185,0	vt	31	05	A3E	CHN	CNR1			1650: 2 px in Chinese, one is // 7130 - 1700: s/off
DARC	7185,0	vt	31	05	A3E	TWN	RTI-CBS			1650: 2 px in Chinese
DARC	7185,0	vt	dly	05	A3E	TWN	Central Broadcasting			30 dBuV, QTE 056 degs.

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	REMARKS AND OBSERVATIONS
							System			
DARC	7185,0	vt	dly	05	A3E	KWT	Radio Kuwait			Arabic 1800 - 2400, location Kabd
DARC	7185,0	vt	vd	05	A3E	CHN	CNR1			2 px heard at the same time, 08 - 29 at 1437 - 1607
DARC	7188,0	1010	04	05	F1B		UiPTR		250	unid printer
DARC	7188,0	1045	04	05	N0N		UiCAR			carrier (belongs to printer)
DARC	7190,0	0947	20	05	G7B		UiMUX			frequency hopper
DARC	7190,0	0300	26	05	A3E	CLN	SLBC Colombo			SLBC broadcasting to South America, excellent till 0300 - report VU2UR
DARC	7192,0	0801	14	05	G7B		UiMUX			frequency hopper
DARC	7193,0	0747	14	05	F1B	RUS	UiPTR	100	140	unid printer
DARC	7195,0	vt	10	05	A3E	CHN	Xinjiang PBS			heard 1230 - 1800, Uighur - report S.Hasegawa, NDXC
DARC	7195,0	vt	12	05	A3E	CHN	Xinjiang PBS			1510: S3, 1620: S6
DARC	7195,0	vt	14	05	A3E	CHN	Xinjiang PBS			has left 7195 and gone to 7205 - report Olle Alm, Sweden
DARC	7200,0	vt	10	05	A3E	SDN	Radio Omdurman			heard 0320 - 0432, ann.: Huna Omdurman - report Brian Alexander, USA
DARC	7200,0	vt	12	05	A3E		UiBC			1510: S3, 1620: carrier S8
DARC	7200,0	0630	13	05	A3E		UiBC			0630: S6-signal
DARC	7200,0	1905	13	05	A3E	IRN	VOIRI			1905: S9+10dB
DARC	7200,0	1830	16	05	A3E	IRN	VOIRI			S8-signal
DARC	7200,0	1410	19	05	A3E		UiBC			1410: S3
DARC	7200,0	1655	19	05	A3E	IRN	VOIRI			1655: S9
DARC	7200,0	vt	25	05	A3E	IRN	VOIRI			1700: S9+10dB, 1837: S9+20dB
DARC	7200,0	0215	26	05	A3E	BRM	R. Myanma			R. Myanma going beyond - report VU2UR
DARC	7200,0	1705	26	05	A3E	IRN	VOIRI			S6-signal
DARC	7200,0	vt	26	05	A3E	IND	AIR Kolkata			wrong frequency punched - report VU2UR
DARC	7200,0	vt	26	05	A3E		UiBC			1617: carrier S9, 1210: S8, 2010: S8
DARC	7200,0	vt	26	05	A3E	IRN	VOIRI			1617: carrier S, 1705: S6
DARC	7200,0	vt	27	05	A3E		UiBC			1210: S8, 1645: S6, 2010: S8
DARC	7200,0	1705	28	05	A3E	IRN	VOIRI			S8-signal
DARC	7200,0	1805	29	05	A3E		UiBC			S7-signal
DARC	7200,0	vt	29	05	A3E	SDN	Radio Omdurman			0733: HOA music S5-7
DARC	7200,0	vt	29	05	A3E	IRN	VOIRI			1705: VOIRI S9+10dB
DARC	7200,0	vt	30	05	A3E	SDN	Radio Omdurman			1520 - 1530: Holy Quran recitals S6, 1955: Arabic, 2000: ann: "Huna Omdurman", 2000: s/off
DARC	7200,0	1653	31	05	A3E	SDN	Radio Omdurman			S9-signal
DARC	7200,0	vt	dly	04	A3E	SDN	Radio Omdurman			heard 0400, 0744 weak, 1302 weak, 1520 Ar, 1655 2 px, 1855, 1944
DARC	7200,0	vt	dly	04	A3E	RUS	Voice of Russia			location Iakutsk
DARC	7200,0	vt	dly	04	A3E	RUS	Voice of Russia			location Moscow
DARC	7200,0	vt	dly	05	A3E	IRN	VOIRI			1615 carrier S9+15dB, 1630 - 1727, Pashtu language



CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	REMARKS AND OBSERVATIONS
DARC	7200,0	vt	dly	05	A3E	IRN	VOIRI			location Kamalabad, 1830 - 1930
DARC	7200,0	vt	dly	05	A3E	IND	AIR Kolkata			sked 0230 - 0401v, Sat,Sun 0700 - 1000, Sun: 1030 - report VU2JOS
HFCC	7200,0	vt	dly	04	A3E	RUS	Voice of Russia			1900 - 1500, location Iakutsk
HFCC	7200,0	vt	dly	04	A3E	RUS	Voice of Russia			2300 - 0300, location Moscow
HFCC	7200,0	vt	dly	05	A3E	IRN	VOIRI			Pushtu 1630 - 1730, location Ahwaz
HFCC	7200,0	vt	dly	05	A3E	IRN	VOIRI			Husa 1830 - 1930, location Kamalabad
DARC	7200,0	vt	vd	05	A3E		UiBC			heard 10 15 at 1515, 1644
DARC	10100,8	0915	03	04	F1B	D	DDH, DDK			heard 1346 - 1639
DARC	10100,8	0615	14	05	F1B	D	DDH, DDK			printer, legal
DARC	10102,9	0802	16	05	F1B	RUS	UiPTR	41	500	40,5 Bd, system FROST-1
DARC	10106,0	0701	11	05	G7B		UiMUX			frequency hopper
DARC	10108,0	vt	vd	05	F1B	RUS	UiPTR	50	200	unid printer heard 09 - 12 at 0700 - 0950
DARC	10112,0	0857	01	05	G7D	TUR	UiMUX	2k4		Stanag-4285, 2k4, 8PSK - permanent
DARC	10113,0	1642	08	05	FSK8	TUN	Tunisian MOI	125	1750	ALE, selcalls TUD, STAT1 - is Tunisian MOI
DARC	10114,7	0644	14	05	F1B	RUS	UiPTR	96	1000	CIS-14, location Moscow - daily
DARC	10114,8	0658	07	05	F1B	CIS	UiPTR	96	1000	system CIS-14
DARC	10115,0	0615	14	05	F1B	CIS	UiPTR		1000	unid printer
DARC	10118,0	0858	11	05	F1B	RUS	UiPTR	75	250	unid printer, location North of Samara
DARC	10118,0	0815	24	05	F1B	RUS	UiPTR	75	250	unid printer, location Nishniy Novgorod
DARC	10118,0	0835	24	05	F1B	RUS	UiPTR			unid printer
DARC	10120,0	0853	22	05	P0N	G / CYP	British OH- Radar			50-Hz-system
DARC	10120,0	vt	vd	05	J7D	RUS	UiMUX			MPSK12, AT-3004-D, location Kazan - heard 06 10 17 at 0928 - 1324
DARC	10120,0	vt	vd	05	J7D	RUS	UiMUX			MPSK-12, AT-3004, location Moscow
DARC	10124,1	1718	27	05	MFSK	CIS	UiMUX	40	1400	CIS-36, 36 tones MFSK, unid CIS
DARC	10126,0	0703	11	05	J7D	RUS	UiMUX	120		MPSK-12, AT-3004-D, location Murmansk
DARC	10130,0	1925	29	05	FSK8		UiMUX	125	1750	Thales Skymaster, 8 x 125 Bd, FSK8 - and Arabic male voices USB
DARC	10130,0	vt	vd	05	F1B	USA	UiPTR	50	850	unid printer, location State of Maine, USA
DARC	10131,0	1129	23	05	F1B	RUS	UiPTR	75	250	unid printer
DARC	10134,0	1504	05	05	FSK8		UiMUX	125	1750	ALE, selcall 4AK
DARC	10137,2	0832	13	05	A1A	I	IK3NWX/B			uncoordinated and not wanted beacon
DARC	10140,0	2124	31	05	G7B		UiMUX			frequency hopper
DARC	10142,0	vt	vd	05	MFSK	CIS	UiMUX	40		CIS-36, 36 tones MFSK, unid CIS
DARC	10143,0	1132	23	05	F1B	RUS	UiPTR	100	250	unid printer, idling
DARC	10145,0	1633	04	05	P0N	G / CYP	British OH- Radar			50-Hz-system
DARC	10145,0	0946	08	05	J7D	RUS	UiMUX	120	2600	MPSK-12, AT-3004-D, location Kazan
DARC	13970,0	2022	22	05	JAM	CHN	Hainan Firedrake Jammer			is active, just info

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	REMARKS AND OBSERVATIONS
DARC	14000,0	1732	11	05	A3E	ISR	YHF2			female voice spelling "Yankee Hotel Foxtrot Two" - is Mossad
DARC	14000,0	0747	24	05	G7B		UiMUX			frequency hopper
DARC	14008,0	1020	14	05	F1B	RUS	UiPTR	50	250	unid printer location Kaliningrad
DARC	14024,0	1302	12	05	G7B		UiMUX			frequency hopper
DARC	14026,0	vt	vd	05	J7D	RUS	UiMUX	120		MPSK-12, AT-3004-D, location Moscow - heard 07 12 at 0702, 1008
DARC	14034,0	0812	21	05	F1B	RUS	UiPTR	92	500	unid printer
DARC	14050,0	0703	07	05	F1B	RUS	UiPTR	75	250	location Sibiria
DARC	14052,0	vt	vd	05	J7D	RUS	UiMUX			MPSK-12, AT-3004-D, QPSK, heard 11 22 at 0807 - 0916 - location Moscow
DARC	14066,0	1237	19	05	J7D	RUS	UiMUX	120	2600	MPSK-12, AT-3004-D, location Kaliningrad
DARC	14069,0	1743	12	05	G7B		UiMUX			frequency hopper
DARC	14071,0	2004	03	05	G7B		UiMUX			frequency hopper
DARC	14100,0	0744	15	05	F1B	RUS	UiPTR	50	200	unid printer, location Arkhangelsk
DARC	14102,0	1818	19	05	F1B		UiPTR	100	850	unid printer
DARC	14108,0	0844	23	05	G7B		UiMUX			frequency hopper
DARC	14108,0	vt	vd	05	A1A		UiCW			encrypted morse, heard 23 28 at 0845, 0917
DARC	14109,0	1049	01	05	FSK8	FNL	OH7JJT	125	1750	ALE by amateurs, just info
DARC	14118,0	1343	16	05	J7D	RUS	UiMUX			MPSK-12, AT-3004-D
DARC	14118,0	1238	19	05	A1A		UiCW			encrypted morse
DARC	14120,0	0859	01	05	F1B	N.Eu	UiPTR	81	250	unid printer close to LTU border
DARC	14122,0	vt	vd	05	J7D	RUS	UiMUX	120		MPSK12, AT-3004-D, location Kaliningrad - heard 06 09 13 16 21 24 25 30 at 0713 - 0900
DARC	14141,0	0746	27	05	F1B	RUS	UiPTR	75	500	unid printer
DARC	14143,0	vt	vd	05	J7D	RUS	UiMUX			MPSK-12, AT-3004-D, heard 08 09 at 0950, 1056
DARC	14143,0	vt	vd	05	J7D	RUS	UiMUX	120	2600	MPSK-12, AT-3004-D, heard 21 25 at 0814, 0901 - location West Russia
DARC	14162,0	0919	27	05	J7D	RUS	UiMUX			MPSK-12, AT-3004-D, location Novgorod
DARC	14165,0	1052	18	05	F1B	RUS	UiPTR	50	200	unid printer
DARC	14186,1	1338	17	05	F1B	RUS	UiPTR	50	500	unid printer
DARC	14192,0	0814	02	05	F1B	RUS	UiPTR	50	500	RUS Navy Kaliningrad
DARC	14192,0	vt	vd	05	F1B	RUS	RUS Navy Kaliningrad	50	500	printer heard 13 14 at 1900, 0645 - is RUS Navy Kaliningrad
DARC	14192,2	0615	14	05	F1B	RUS	RUS Navy Kaliningrad	50	500	RUS Navy Kaliningrad
DARC	14207,0	1009	12	05	J7D	LTU	UiMUX	120	2600	MPSK-12, AT-3004-D
DARC	14221,0	2024	10	05	F1B	RUS	UiPTR	50	200	unid printer
DARC	14221,0	2234	15	05	F1B	CIS	UiPTR	50	200	unid printer
DARC	14221,0	vt	vd	05	F1B	RUS	UiPTR	50	200	heard 21 27 28 29 at 1900 - 2006
DARC	14221,0	2108	vt	05	F1B	RUS	UiPTR	50	200	unid printer heard 17 18 at 2108
DARC	14232,0	0758	16	05	F1B		UiPTR	75	250	unid printer
DARC	14234,0	0828	30	05	J7D	RUS	UiMUX			MPSK-12, AT-3004-D
DARC	14238,0	0918	07	05	F1B	RUS	UiPTR	75	250	unid printer location Kaliningrad
DARC	14240,0	vt	02	05	F1B	RUS	UiPTR	50	250	heard 02 17 at 0815, 0926

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	REMARKS AND OBSERVATIONS
										- location West Russia border to BLR
DARC	14240,0	1029	13	05	F1B	RUS	UiPTR	50	250	unid printer, location Moscow
DARC	14240,0	0903	26	05	F1B	RUS	UiPTR	75	250	unid printer, location Moscow
DARC	14262,0	1340	28	05	A1A		UiCW			encrypted morse, figures and letters
DARC	14295,1	1634	04	05	A3E	TJK	Radio Tajikistan			3rd harmonic of 4765, daily
DARC	14420,0	1905	31	05	JAM	CHN	Hainan Firedrake Jammer			is active, just info
DARC	18074,0	1341	15	05	J7D	CIS	UiMUX	120		MPSK-12, AT-3004-D
DARC	18157,8	0710	11	05	G7D	CYP	UiMUX			Stanag-4285, 2k4, 8PSK - permanent
DARC	21014,0	0738	14	05	G7B		UiMUX			frequency hopper
DARC	24900,0	1554	25	05	P0N	HRV	Codar HF-Radar			100 kHz spread 24850 - 24950 kHz with "shrub shrub shrub..."
DARC	24900,0	1041	31	05	P0N	HRV	Codar HF-Radar			100 kHz spread 24850 - 24950 kHz with "shrub shrub shrub..."
DARC	24901,0	1606	25	05	G7B		UiMUX			frequency hopper
DARC	24910,0	vt	vd	05	P0N	HRV	Codar HF-Radar			stretching 24850 - 24950 kHz, location Island of Pag, Dalmatian Coast, Croatia - heard 17 19 at 1354, 0838 during Sporadic-E condx
DARC	29684,8	1820	vd	05	Serial Modem	I	UiMUX			Serial Modem heard bcos Sporadic-E: 16 - 31 - Italian MIL Brescia
DARC	29699,8	1820	vd	05	Serial Modem	I	UiMUX			Serial Modem heard bcos Sporadic-E: 16 - 31 - Italian MIL Brescia

### IRTS – Ireland – EI4GXB (Ger)

### MRASZ – Hungary - HA7PL (Laci)

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	SH	DETAILS
MRASZ	7001.5	0752	21	05	F1B			170	
MRASZ	7002.3	1451	21	05	F1B?				
MRASZ	7008.0	0801	28	05	J9D				
MRASZ	7020.6	0748	21	05	J9D				
MRASZ	7023.3	1220	28	05	J9D				
MRASZ	7038.7	VT	VD	05	A1A	UKR	D		D beacon
MRASZ	7038.8	VT	VD	05	A1A	RUS	P		P beacon
MRASZ	7038.9	VT	VD	05	A1A	RUS	S		S beacon
MRASZ	7039.0	VT	VD	05	A1A	RUS	C		C beacon
MRASZ	7058.0	1222	28	05	F1B				
MRASZ	7072.0	1010	28	05	F1B				
MRASZ	7110.0	1434	21	05	A3E		UiBC		BC
MRASZ	7111.0	0756	21	05	F1B			250	
MRASZ	7122.0	0612	22	05	F1B		Uiprint	200	printer
MRASZ	7130.0	1420	22	05	A3E		UiBC		BC
MRASZ	7165.0	1431	21	05	A3E		UiBC		BC

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	SH	DETAILS
MRASZ	7185.0	1421	22	05	A3E		UiBC		BC
MRASZ	14001.1	0810	21	05	A1A				dotter
MRASZ	14021.0	0719	29	05	A1A				dotter, deliberate HAM disturb
MRASZ	14064.7	1015	19	05	J9D				
MRASZ	14262.0	1215	28	05	A1B				„28T 96 AR”
MRASZ	14308.0	0729	29	05	F1B?				
MRASZ	21050.0	1036	20	05	J3E				unidentified language
MRASZ	28005.0	0750	19	05	A1A				„AC” drifted fishery buoy
MRASZ	28079.9	0758	19	05	A1A				„FNI” drifted fishery buoy
MRASZ	28155.0	0812	19	05	F3E	taxi			female, russian
MRASZ	28195.0	1043	20	05	F3E	taxi			female, russian
MRASZ	28215.0	0833	19	05	F3E	taxi			male, russian
MRASZ	28305.0	0833	19	05	F3E	taxi			female, russian
MRASZ	28305.0	1046	20	05	F3E	taxi			female, russian

## OEVSV – Austria – OE3DMA (Alex)

## REP – Portugal – CT4AN (Jose Francisco)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	DETAILS
REP	3569,0	22.40	20	05	ni	P	A1A	Beacon (?) DLY, ADY
REP	3808,0	22.28	27	05	POR		J3E-L	OM testing & tuning his Audio <b>OUT OF IARU-R1 BAND</b>
REP	3810,0	22.35	27	05	POR		J3E-L	OM testing & tuning his Audio <b>OUT OF IARU-R1 BAND</b>
REP	7038,6	07.20	13	05	RUS	S	A1A	MURMANSK, ADY, DLY 3.1uV S5
REP	7038,7	13.26	03	05	UKR	D	A1A	SEVASTOPOL, ADY, DLY 0.2uV S1
REP	7038,7	06.10	18	05	UKR	D	A1A	SEVASTOPOL, ADY, DLY 25uV S8
REP	7039,0	20.48	16	05	I	K IZ3DVW	A1A	<b>Beacon out of IARU Recommendations</b>
REP	7039,0	06.22	15	05	RUS	C	A1A	MOSCOW, ADY, DLY 6.3uV S6
REP	7039,1	21.04	23	05	RUS	A	A1A	Astrakhan, ADY, DLY 6.3uV S6
REP	7039,1	17.47	21	05	RUS	A	A1A	Astrakhan, ADY, DLY 3.1uV S5
REP	7039,5	07.35	26	05	I	K IZ3DVW	A1A	MONSELICE, Italian <b>Beacon out of IARU recommendations</b> 3.1uV S5
REP	7105	22.19	03	05	CHN		8k00 A3EGN	Radio China (Beijing) 5000uV S9+40dB
REP	7105	22.30	09	05	CHN		8k00 A3EGN	Radio China (Beijing) 5000uV S9+40dB
REP	7105	22.45	24	05	TWN		8k00 A3EGN	Sound of Hope – DLY - English on Sundays
REP	7110	20.35	05	05	ETH		8k00 A3EGN	Radio Ethiopia 1581uV S9+30dB
REP	7110	19.11	05	05	CHN		8k00 A3EGN	Radio China International (Urumgi) 5000uV S9+40dB
REP	7110	18.23	10	05	CHN		8k00 A3EGN	Radio China International (Urumgi) 1581uV S9+30dB
REP	7110	19.11	07	05	ETH		8k00 A3EGN	Radio Ethiopia 1581uV S9+30dB
REP	7110	04.19	08	05	ETH		8k00 A3EGN	Radio Ethiopia 5000uV S9+40dB
REP	7110	18.26	11	05	CHN		8k00 A3EGN	Radio China International 5000uV S9+40dB
REP	7110	23.00	11	05	ETH		8k00 A3EGN	Radio Ethiopia – Amhariic language
REP	7115	20.30	12	05	CHN		8k00 A3EGN	Radio China -Chinese
REP	7125	23.33	04	05	CHN		8k00 A3EGN	Radio Xizung 500uV S9+20dB

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	DETAILS
REP	7125	00.08	06	05	CHN		8k00 A3EGN	Radio China International 500uV S9+20dB
REP	7125	21.04	17	05	CHN		8k00 A3EGN	Radio China 1581uV S9+30dB
REP	7125	00.40	13	05	GUI		8k00 A3EGN	Radio Konakry – English announcement
REP	7125	23.00	15	05	GUI		8k00 A3EGN	Swaili
REP	7130	17.14	11	05	MLA		8k00 A3EGN	Radio Sarawak 50uV S9
REP	7130	00.40	16	05	MLA		8k00 A3EGN	Radio Sarawak
REP	7135	19.02	09	05	RUS		8k00 A3EGN	Voice of Russia 50uV S9
REP	7145	18.38	08	05	SOM		8k00 A3EGN	Radio Hargheisa 50uV S9
REP	7145	22.20	11	05	SOM		8k00 A3EGN	Radio Hargheisa - Ident. at hour
REP	7165	22.10	14	05	ETH		8k00 A3EGN	Radio Ethiopia 6.3uV S6
REP	7165	18.22	14	05	ETH		8k00 A3EGN	Radio Ethiopia 500uV S9+20dB
REP	7165	23.45	01	05	ERI		8k00 A3EGN	Voice of Broad Masses
REP	7165	01.30	23	05	ERI		8k00 A3EGN	Amharic - DLY up to 03 UTC
REP	7165	01.00	06	05	ETH		8k00 A3EGN	Radio Ethiopia - Amharic language music
REP	7175	19.21	13	05	ALB		8k00 A3EGN	Radio Albânia 500uV S9+20dB
REP	7180	22.15	01	05	CHN		8k00 A3EGN	Radio China 500uV S9+20dB
REP	7180	20.40	19	05	CHN		8k00 A3EGN	Radio China 500uV S9+20dB
REP	7185	01.00	25	05	BRM		8k00 A3EGN	Radio Myanmar - Ident. at hour
REP	7190	02.30	06	05	CHN		8k00 A3EGN	China National radio in Chinese language
REP	7195	19.22	25	05	RUS		8k00 A3EGN	Voice of Russia (Armavir) 90uV S9+5dB
REP	7200	21.11	24	05	SDN		8k00 A3EGN	Omdurmhan Radio – DLY 50uV S9
REP	7200	21.00	01	05	SDN		8k00 A3EGN	Omdurmhan Radio – DLY
REP	10110	13.10	07	05	MLA		J3E-U	Malaysian Fishery
REP	14160	17.20	18	05	ni		J3E-U	Voices on phone patch - English language
REP	28175	19.15	22	05	SER		A3E	Taxis – Serbo Croatian language
REP	28315	14.20	11	05	SPA		A3E	Taxis – near Malaga - Spanish lang
REP	29010	15.20	14	05	MRC		A3E	Club Dar el Bei - logistic traffic in many languages , mainly arabic

RSGB - Great Britain – G4BOH (Chris)



## SRAL – Finland – OH2BLU (Pekka)

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	REMARKS
SRAL	7010,0	0700-1200	13, 28	5	RUS	UiMUX	J7D		Moscow
SRAL	7016,0	1645	17	5		UiPTR	F1B	250	
SRAL	7020,0	0700-0830	22	5		UiPTR	F1B	250	
SRAL	7038,7	0300-2000	11-31	5	UKR	D	A1A		Sevastopol
SRAL	7038,8	h24	dly	5	RUS	P	A1A		Kaliningrad
SRAL	7038,9	0300-2000	11-31	5	RUS	S	A1A		Severomorsk
SRAL	7039,0	h24	dly	5	RUS	C	A1A		Moscow
SRAL	7042,0	0400-1030	2, 5, 9	5		UiPTR	F1B	200	
SRAL	7056,0	0730-1200	28	5		UiPTR.	F1B	500	
SRAL	7072,0	0700-1200	28	5		UiPTR	F1B		
SRAL	7077,7	0730-1100	*	5		UiPTR	F1B	1000	Days 5, 19 & 20
SRAL	7093,0	0700-1400	*	5		UiPTR	F1B	150	Days 13, 18, 20, 22, 24 & 31
SRAL	7100,0	1500-1700	dly	5	ERI	VoBME	A3E		
SRAL	7100,0	1800-2100	Dly	5	KRE	VoKorea	A3E		
SRAL	7110,0	0300-2100	Dly	5	ETH	R Ethiopia	A3E		
SRAL	7122,0	0300-2000	dly	5	RUS	RDL	F1B	200	Kaliningrad, dotter 25 Hz
SRAL	7125,0	1300-2000	1-7	5	CHN	Xisung PBS	A3E		
SRAL	7130,0	1330-1800	dly	5	TWN & CHN	RTI & CNR1	A3E		5 – 15 Hz apart
SRAL	7135,0	1500-1930	dly	5		UiBC	A3E		
SRAL	7142,0	0730-1000	20	5		UiPTR	F1B	250	
SRAL	7145,0	1530-1900	dly	5	SOM	R Hargeisa	A3E		
SRAL	7162,0	0630-1630	1, 25	5	RUS	UiPTR	F1B	250	Moscow
SRAL	7165,0	0400-1830	dly	5	ERI	VoBME	A3E		Jammed by ETH 5 – 15 Hz apart
SRAL	7166,0	1630-1800	10, 18, 31	5	RUS	PVO	A1A		Groups of figures
SRAL	7167,0	0800-1000	20	5	RUS	UiPTR	F1B	250	Novgorod
SRAL	7170,0	1430-1800	1-7	5	CHN	Xisang	A3E		
SRAL	7175,0	1400-2030	1-25	5	ERI	VoBME	A3E		
SRAL	7176,0	0830-0930	2, 27	5	KAZ?	UiPRT	F1B	250	
SRAL	7185,0	0900-1700	Dly	5	TWN & CHN	RTI & CNR1	A3E		5 – 15 Hz apart
SRAL	7188,0	1015	4	5	RUS	UiPRT	F1B	250	Kaliningrad
SRAL	7195,0	1300-1800	1-10	5	CHN	Xinjiang	A3E		
SRAL	7196,0	0630	1	5		UiPRT	F1B	200	25 Hz dotter
SRAL	7198,0	0700-1200	4, 19	5		UiPTR	F1B		

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	REMARKS
SRAL	7200,0	0300-2000	dly	5	SDN	R Sudan	A3E		
SRAL	14008,0	0720-0750	13, 20	5	RUS	UiPTR	F1B		Kaliningrad
SRAL	14052,0	0650-1200	11, 22	5	RUS	UiMux	J7D		Moscow
SRAL	14108,0	0720-0930	8, 22	5		HDGI	A1A		MR 5BL
SRAL	14118,0	0720-1010	8,11, 13	5		UiMux	J7D		
SRAL	14122,0	0650-0920	*	5		UiMux	J7D		Days 13, 16, 17 & 21, Kaliningrad
SRAL	14141,0	0815-0915	20	5	RUS	RIW	A1A		Calls RFX56
SRAL	14234,0	0615--1315	13, 15	5		UiMux	J7D		
SRAL	14240,0	0855-1230	13	5	RUS	UiPTR	F1B		Moscow
SRAL	14295,0	0855-1200	13, 20	5	TJK	UiBC	A3E		Radio Tajik, 3 <sup>rd</sup>
SRAL	18150,0	1035	13	5	CYP	UiOTH	P0N		
SRAL	28055-28475	0845-1230	*	5	RUS	UiVOX	F3E		taxi cabs - 3 days, 24 reports

### USKA – Switzerland – HB9CET (Peter)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
USKA	7000.0	1904	06	05		GLT	MFSK8	125	1750	MIL 188-141A, ALE daily
USKA	7000.0	0814	14	05			J3E-U			conversation in italian language
USKA	7000.0	1957	21	05			J3E-U			unid language
USKA	7001.5	1451	21	05			F1B	200	200	ARQ unid (no ham mode)
USKA	7010.0	1519	12	05			J7D	12x120		PSK-4: CIS 12 = AT3004D
USKA	7010.0	1640	28	05		RS0	MFSK8	125	1750	MIL 188-141A, ALE daily
USKA	7010.0	1713	28	05		CS0	MFSK8	125	1750	MIL 188-141A, ALE daily
USKA	7016.0	0946	05	05			F1B	75	250	unid almost daily
USKA	7020.0	1837	04	05		RS0	MFSK8	125	1750	MIL 188-141A, ALE daily
USKA	7022.0	0832	04	05			J7D	12x120		PSK-2: CIS 12 = AT3004D
USKA	7030.0	1853	14	05			J3E-U			unid language, no ham
USKA	7038.7	1508	01	05	UKR	D	A1A			Beacon D Sevastopol daily
USKA	7038.8	1506	01	05	RUS	P	A1A			Beacon P Kaliningrad daily
USKA	7038.9	1907	14	05	RUS	S	A1A			Beacon S Murmansk daily
USKA	7039.0	1507	01	05	RUS	C	A1A			Beacon C Moscow daily
USKA	7079.0	1655	26	05			J7D			PSK-2: CIS 12 = AT3004D
USKA	7089.9	1324	04	05			F1C	60rpm		IOC 576 Weatherfax daily
USKA	7093.0	1306	13	05			F1B	100	150	unid
USKA	7094.9	2239	28	05			F1B	100	150	unid
USKA	7100.0	1900	14	05	KRE		A3E			BC, Voice of Korea daily
USKA	7110.0	2056	01	05			A3E			Broadcast daily
USKA	7111.0	1001	05	05			F1B	75	250	unid
USKA	7122.0	1422	04	05			F1B	50	200	unid, followed by F1A daily
USKA	7122.0	1426	04	05			F1A			characters and figures
USKA	7125.0	2058	01	05			A3E			Broadcast daily
USKA	7127.0	2103	01	05			F1B	75	250	unid
USKA	7130.0	1526	05	05			A3E			Broadcast daily
USKA	7135.0	1526	05	05			A3E			Broadcast daily
USKA	7140.0	1830	14	05			A3E			Broadcast daily
USKA	7140.0	1652	26	05			J7D	12x120		PSK-2: CIS 12 = AT3004D
USKA	7145.0	1525	05	05			A3E			Broadcast daily
USKA	7165.0	1624	14	05	ETH		A3E			Broadcast daily
USKA	7166.0	1924		05			A1A			Figures only
USKA	7166.0	1832	14	05			A1A			characters and figures, no ham
USKA	7170.0	2059	01	05			A3E			Broadcast daily
USKA	7175.0	1524	05	05			A3E			Broadcast daily

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
USKA	7180.0	2100	01	05			A3E			Broadcast daily
USKA	7185.0	1524	05	05			A3E			Broadcast daily
USKA	7188.0	0822	04	05			F1B	81	250	unid
USKA	7195.0	1523	05	05			A3E			Broadcast daily
USKA	7196.0	1033	04	05			J7D	12x120		PSK-2: CIS 12 = AT3004D
USKA	7200.0	1523	05	05			A3E			Broadcast daily
USKA	10114.0	1448	14	05			P0N	50pps		OTHR from 10114 khz up
USKA	10135.0	1326	15	05			P0N	50pps		OTHR from 10134 kHz up
USKA	10140.0	0836	14	05			P0N	50pps		OTHR from 10140 khz up
USKA	10148.0	1154	25	05			P0N	50pps		OTHR from 10147 kHz up
USKA	14000.0	1918	21	05			P0N			OTHR abt 13997 to 14012 kHz
USKA	14008.0	1304	06	05			F1B	50	250	unid almost daily
USKA	14016.0	0934	04	05			J7D	12x120		PSK-2: CIS 12 = AT3004D
USKA	14026.0	1504	12	05			J7D	12x120		PSK-2: CIS 12 = AT3004D
USKA	14028.0	0924	04	05			F1B	75	250	unid
USKA	14038.4	0715	23	05			F1B	600	600	ARQ unid
USKA	14050.0	1013	11	05			J7D	12x120		PSK-2: CIS 12 = AT3004D
USKA	14052.0	0937	22	05			J7D	12x120		PSK-4: CIS 12 = AT3004D
USKA	14098.5	1304	15	05			F1B	600	600	ARQ unid
USKA	14102.0	0903	04	05			F1B	100	850	unid
USKA	14102.0	1824	19	05			F1B	100	850	unid
USKA	14110.0	0639	23	05			F1B	100	250	unid
USKA	14116.0	0701	18	05			F1B	75	250	unid almost daily
USKA	14118.0	1007	11	05			J7D	12x120		PSK-2: CIS 12 = AT3004D
USKA	14122.0	0819	14	05			J7D	12x120		PSK-2: CIS 12 = AT3004D daily
USKA	14143.0	1022	25	05			J7D	12x120		PSK-2: CIS 12 = AT3004D daily
USKA	14192.0	1828	19	05			F1B	50	500	unid
USKA	14192.0	0709	23	05			F1B	50	200	unid
USKA	14202.0	0807	14	05			F1B	100	850	unid
USKA	14202.0	1830	19	05			F1B	100	850	unid
USKA	14221.0	1924	15	05			F1B	50	200	unid almost daily
USKA	14240.0	0927	17	05			F1B	50	250	unid, followed by F1A
USKA	14242.0	1501	12	05			J7D	12x120		PSK-4: CIS 12 = AT3004D
USKA	14248.5	1131	25	05			F1B	1200	600	ARQ
USKA	14257.0	0901	04	05			J7D	12x120		PSK-2: CIS 12 = AT3004D
USKA	14294.0	0823	14	05			J7D	12x120		PSK-2: CIS 12 = AT3004D
USKA	14302.0	1320	15	05			F1B	100	850	unid
USKA	14302.0	1303	18	05			F1B	100	850	unid
USKA	14321.0	1529	26	05		Names	J3E-U			male net (Arabic language?)
USKA	14328.4	1632	14	05			F1B	600	600	ARQ unid almost daily
USKA	14334.0	0704	23	05			J7D	12x120		CIS 12 = AT3004D idling only
USKA	28021.5	1031	25	05		CZ	A1A			Fishery buoy
USKA	28042.5	1521	18	05			AM			spanish
USKA	28055.0	1523	18	05			AM			unid language
USKA	28065.7	1056	25	05		K	A1A			Fishery buoy
USKA	28075.0	1446	18	05			AM			spanish
USKA	28075.0	1007	25	05			AM			spanish
USKA	28087.5	1005	25	05			AM			spanish
USKA	28115.0	1048	25	05			AM			spanish; roger piep
USKA	28126.0	1457	18	05			N0N			permanent carrier
USKA	28135.0	1443	18	05			AM			spanish
USKA	28135.5	1043	25	05			AM			spanish
USKA	28166.5	1507	18	05		AO	A1A			Fishery buoy
USKA	28191.5	1148	18	05		NA	A1A			Fishery buoy
USKA	28245.0	1536	18	05			AM			unid language
USKA	28245.1	1003	25	05			AM			spanish; roger piep
USKA	28265.0	1439	18	05			J3E-U			unid language, roger piep
USKA	28306.0	1038	25	05		DT	A1A			Fishery buoy
USKA	28346.4	1040	25	05		DT	A1A			Fishery buoy
USKA	28375.1	1012	25	05			AM			spanish

## Veron – Netherlands – PA0GRU (Dick)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	DETAILS
VERON	3608,0	20.05	14	5		UiPTR	F1B		Ptr
VERON	3625,0	19.00	28	5		UiPTR	F1B	250	Ptr
VERON	3772,0	19.06	28	5		P	A1A		beacon
VERON	7000,0	19.44	22	5		UiILL	J3Eu		Irish language, male
VERON	7036,3	07.40	VD	5		UiMUX	J7D		2.50 utc, 5 days, MPSK
VERON	7038,7	vt	vd	5	UKR	D	A1A		D-beacon
VERON	7038,7	06.07	vd	5	UKR	D	A1A		21.36 utc, 11 days, beacon Navy
VERON	7038,8	vt	vd	5	RUS	P	A1A		P-beacon
VERON	7038,8	06.07	vd	5	RUS	P	A1A		19.54 utc, 7 days, beacon
VERON	7038,9	vt	vd	5	RUS	S	A1A		S-beacon
VERON	7038,9	05.07	vd	5	RUS	C	A1A		20.36 utc, 11 days, beacon Moscow
VERON	7038,9	06.09	vd		RUS	S	A1A		19.42 utc, 8 days, beacon
VERON	7039,0	vt	vd	5	RUS	C	A1A		C-beacon
VERON	7099,0	12.40	vd		CIS	UiCW	A1A		14.14 utc, 5BL, proc, 2 days
VERON	7105,0	vt	vd	5		UiBC	A3E		8 days, speech and music, Arabic/French
VERON	7110,0	18.58	28	5		UiBC	A3E		music and speech Arabic, also 29/5
VERON	7122,0	17.43	18	5	RUS	RDL	F1A		22222 5F (followed by Revs)
VERON	7122,0	vt	vd	5		UiPTR	F1B		Revs
VERON	7122,0	18.50	15	5	CIS	UiPTR	F1B	200	Ptr
VERON	7130,0	vt	vd	5		UiBC	A3E		5 days, music and speech, Asiatic
VERON	7145,0	18.51	15	5		UiBC	A3E		Arabic speech
VERON	7165,0	vt	vd	5		UiBC	A3E		11 days, Asiatic speech and music
VERON	7166,0	17.25	18	5		UiCW	A1A		Strings of figures
VERON	7166,0	19.21	22	5		UiCW	A1A		5F
VERON	7166,0	18.20	29	5		UiCW	A1A		12598752537317= etc
VERON	7167,0	18.57	28	5		UiBC	A3E		music and speech Arabic, also 29/5
VERON	7175,0	VT	VD	5		UiBC	A3E		11 days, music and speech, Arabic?
VERON	7176,0	10.00	27	5		UiPTR	F1B	250	Ptr, area Kazakhstan
VERON	7180,0	19.58	3	5		UiILL	J3Eu		Spanish male
VERON	7195,0	18.58	15	5	CHN	PBS	A3E		Xinjiang BC
VERON	7197,0	18.52	15	5		UiBC	A3E		speech, unknown language
VERON	7198,0	18.56	15	5		V.O.R.	A3E		splatter from VOR 7205 Khz fundamental
VERON	10103,0	10.53	16	5		UiPTR	F1B		Revs
VERON	10118,0	08.30	18	5		UiPTR	F1B		Idling
VERON	10130,0	vt	vd	5		UiPTR	F1B		Ptr
VERON	14000,0	07.42	19	5		UiCAR	NON		carrier S-9
VERON	14008,0	vt	vd	5	CIS	UiPTR	F1B		Carrier/Revs/Ptr
VERON	14008,0	12.25	16	5		UiPtr	F1B		Ptr, also 16/5 and 24/5
VERON	14028,0	09.47	4	5		UiPTR	F1B		Ptr
VERON	14050,0	09.37	22	5		UiMUX	J7D		12 MPSK
VERON	14077,0	10.26	19	5		UiMUX	J7D		MPSK 5 channels active
VERON	14102,0	10.15	14	5		UiPTR	F1B		Ptr
VERON	14108,0	09.39	14	5	CIS	I84CI	A1A		9YMP de I84CI K (2x times)
VERON	14108,0	09.18	24	5		UiCW	A1A		5F codes
VERON	14109,0	10.31	21	5	CIS	WEGI	A1A		XXX de WEGI (2x times) 29255 etc K
VERON	14116,0	12.59	14	5		UiPTR	F1B		Ptr
VERON	14116,0	07.14	18	5	CIS	UiPTR	F1B	250	Ptr, also 29/5 10.48 utc,
VERON	14120,0	09.31	14	5		UiMUX	J7D		12 MPSK
VERON	14120,0	08.00	25	5		UiMUX	J7D		8 MPSK MIL
VERON	14142,0	10.48	21	5		UiMUX	J7D		121 MPSK
VERON	14142,0	08.01	25	5		UiMUX	J7D		8 MPSK MIL

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	DETAILS
VERON	14160,0	13.00	14	5		UiPTR	F1B		Ptr
VERON	14160,0	09.50	27	5		UiMUX	J7D		12 MPSK AT 3004-D
VERON	14170,0	10.23	19	5		UiMUX	J7D		12 MPSK
VERON	14192,0	vt	vd	5		UiPTR	F1B		Revs/Ptr
VERON	14202,0	vt	vd	5		UiPTR	F1B		Ptr
VERON	14221,0	19.07	22	5		UiPTR	F1B	200	Revs
VERON	14238,0	07.39	19	5	CIS	UiPTR	F1B	250	Ptr
VERON	14240,0	09.03	26	5		UiPTR	F1B	250	Ptr
VERON	14262,0	07.48	19	5	CIS	UiCW	A1A		V- repeating
VERON	14335,0	09.26	28	5		UiMUX	J7D		MPSK
VERON	18103,0	13.09	20	5		UiPTR	F1B		Ptr

# IARUMS Region 1

Many thanks for your interest!

**The monitoring team of IARU Region 1**

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