



Monitoring System

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The monthly newsletter for Region 1

June 2009

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 ++
++ OEVS: OE3DMA – Alex ++ RAL: OD5RI – Riri ++ REP: CT4AN – Jose and CT1JTQ – Angelo ++
++ RSGB: G4BOH - Chris ++ SARL: 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) ++
++ DF8FE – Martin (Webmaster assistance) ++ DL8AAM ++ DJ7KG ++ DF5SX ++ DK4VW - Ulli (DARC-HF-Department) ++
++ 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 2 neighbored Plasma TVs.
The range from 100 kHz is 30 MHz is concerned from 05 – 22 UTC and later!

2. WX-fax on 7089.8 kHz – no change

The WX-fax 7089.8 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 more datas. Great job, dear Uli! Many thanks to DF5SX for assistance.

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

The Codar HF radar from Croatia was active for many days. We suppose that the radar at **RT Zub** was producing the strong QRM. The **RT Zub** radar is operated by **NASCUM**. The German PTT (BNetzA Konstanz) has filed an official complaint. The Croatian Amateur Radio Society will assist by further investigations.

Codar HF radar is a useful application, **but not on our bands!** We are not amused.

Info: http://www.nascum.corila.it/home_eng.html

5. Nostradamus destroys 14 MHz

In June 2009 I found a strong radar signal, which affected the 14 MHz band sometimes up to 14200 kHz with strong QRM (S9 and S9 +10 dBs). The system (named “**Nostradamus**”) was transmitting with 33.3 pulses/sec from Dreux in France. The main signal was active on 13950 – 13970 kHz. Perhaps the system was mistuned. The German PTT (**BNetzA Konstanz**) confirmed my measurements and informed the French PTT. Many thanks to the German and French PTTs for assistance. **Screenshot below!**

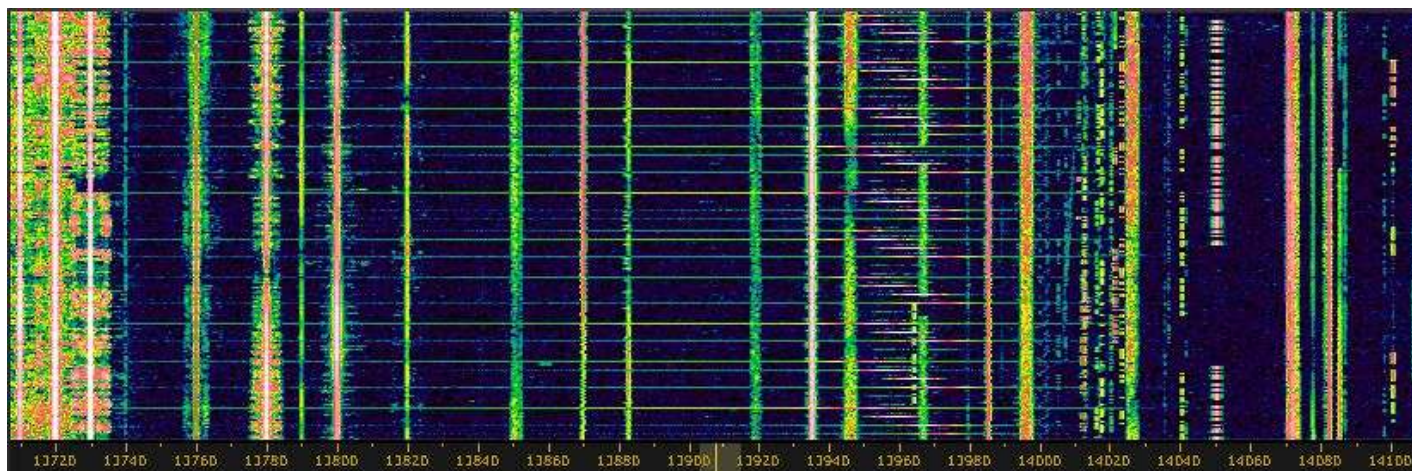
Info: <http://www.onera.fr/photos-en/instexp/nostradamus.php>

6. Tamil fishery again on 14 MHz

After the end of the civil war in Sri Lanka the Tamil fishery was not active on 14 MHz for some weeks. But now they are back, and they like to abuse our band daily on 14000, 14001, 14002, 14003 and 14005 kHz in LSB and USB.

14 MHz sonagram from Perseus – date: June 24th, 2009

The French Radar Nostradamus is disturbing 13700 – 14100 kHz. Parameters:
Sweepgenerator system with 33.3 pulses/sec. The Perseus ist not as sensitive as a usual transceiver. So the sonagram only shows disturbances until 14020 kHz.



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

Part 2: Detailed reports from the national Co-ordinators

DD = day *** MM = month *** dly = daily *** vt = various times *** vd = various days *** pps = pulses per second (radar systems) *** BD = Baud *** SH = Shift *** Mode = mode of transmission *** A3E = AM *** A1A = CW *** J3E-U = USB *** J3E-L = LSB *** FSK (F1B) = frequency shift keying *** PSK = phase shift keying *** MPSK12 (J7D) = 12 channel phase shift keying *** ALE (MIL-188-141A) = automatic link establishment *** MUX = multiplex *** Ui (uniden) = unidentified *** Illicit = illegal *** UiILL = unidentified illegal *** BC = broadcast *** MIL = military *** PTR = printer *** NGO = non governmental organization *** ITU = ITU country abbreviation *** PRC = People's Republic of China *** PLA = People's Liberation Army *** MFA = Ministry of Foreign Affairs *** MOI = Ministry of Interior *** MOPO = Ministry of Public Order *** IARUMS = IARU Monitoring System *** UTC = Universal Time Coordinated

ARSK MONITORING REPORT FOR June, 2009

Propagation was not good and sweeps were quite often totally blank or limited to one or two intruders on 40 meters. The usual intruders from some neighbouring countries were heard, but nothing out of the ordinary. Radio Uganda was still using 7195 kHz

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

ARSK – Kenya – 5Z4NU (Ted)

H'd by	kHz	UTC	dd	mm	ITU	Identity	MODE	Details
ARSK	6999.0	vt	dly	6	ETH?	UiPHONE	J3E	Amharic. Spreads into 40 m. band.
ARSK	7000.0	vt	*	6	SOM	UiPHONE	J3E	Somalis.*14,25,
ARSK	7000.0	vt	*	6	SDN?	UiPHONE	J3E	English, KiSwahili. NGO? Message traffic, phonetics *21,23,
ARSK	7002.0	0720	25	6	SOM	UiPHONE	J3Eu	Somalis.
ARSK	7010.0	vt	*	6	SOM	UiPHONE	J3Eu	Somalis.*14,22,
ARSK	7011.0	vt	*	6	SOM	UiPHONE	J3Eu	Somalis.*7,
ARSK	7012.0	vt	dly	6	SOM	UiPHONE	J3Eu	Somalis.
ARSK	7022.0	vt	*	6	SOM	UiPHONE	J3Eu	Somalis. *23,25,
ARSK	7024.0	0722	23	6	SDN	UiPHONE	J3Eu	English, vernacular. NGO?
ARSK	7025.0	0720	23	6	SOM	UiPHONE	J3Eu	Somalis.
ARSK	7027.0	vt	*	6	SOM	UiPHONE	J3Eu	Somalis.*22,25,
ARSK	7030.0	1235	7	6	SOM		J3Eu	Somalis.
ARSK	7040.0	vt	*	6	ETH	UiPHONE	J3Eu	Amharic.*25,
ARSK	7042.0	vt	*	6	SOM	UiPHONE	J3Eu	Somalis.*14,
ARSK	7045.0	vt	dly	6	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 sending five letter code groups, presumably an encrypted message.
ARSK	7048.0	vt	dly	6	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	7058.0	vt	*	6	SOM	UiPHONE	J3Eu	Somalis.*19,20,
ARSK	7057.0	vt	*	6	SOM	UiPHONE	J3Eu	Somalis. *7,14,23,
ARSK	7066.0	vt	dly	6	SDN	B1, B2, AT, K1, KT, CT, TI, BT, B2, KR, JT, P1, LL, LA, A25, BJ, RK1, RK2,	J3E	S. Sudan. English, & Nilotic language. NGO? Also uses 5712 KHz.

H'd by	kHz	UTC	dd	mm	ITU	Identity	MODE	Details
						KA		
ARSK	7066.0	vt	*	6	SOM	UiPHONE	J3Eu	Somalis.*23,
ARSK	7069.0	1240	14	6	SOM	UiPHONE	J3Eu	Somali station calling Garissa, no reply.
ARSK	7070.0	vt	dly	6	SOM ERI	Asmara, Afmadu, Dobleh, Baidoa, Merere, Garoe, Burhane, Mogadishu, Kismayu, Beletwein	J3Eu	Somalis. SelCal.
ARSK	7071.0	0705	25	6	SOM	UiPHONE	J3E	Somalis.
ARSK	7075.0	vt	*	6	SOM	UiPHONE	J3Eu	Somalis. Wajir mentioned. *7,21,23,
ARSK	7080.0	1325	22	6	SOM	UiPHONE	J3Eu	Somalis.
ARSK	7089.0	vt	dly	6	SOM	UiPHONE	J3Eu	Somalis. Switches sidebands. *7,
ARSK	7090.0	1237	7	6	ZAI	UiPHONE	J3Eu	French.
ARSK	7094.0	0640	22	6	SOM	UiPHONE	J3Eu	Somalis.
ARSK	7110.0	vt	dly	6	ETH	Addis Ababa	A3E	Domestic broadcast, Addis Ababa, Ethiopia
ARSK	7130.0	1552 1603 1542	2 15 17	6	CHN	UiBC	A3E	Broadcast, Hainan Firedrake muic jammer on unidentified Chinese language, thought to be Voice of Hope, Taiwan.
ARSK	7153.0	vt	*	6	SOM	UiPHONE	J3Eu	Somalis.*2, 22, 25,
ARSK	7145.0	vt	dly	6	Rep. of SOM	Hargeisha	A3E	Broadcast. Rep. of Somalia, Hargeisha.
ARSK	7165.0	vt	dly	6	ETH	Addis Ababa	A3E	External broadcast. Addis Ababa, Ethiopia.
ARSK	7175.0	vt	dly	6	ERI	VOBM	A3E	Broadcast, Voice of The Broad Masses, Eritrea. (From 7100 kHz.)
ARSK	7195.0	vt	dly	6	UGA	Kampala	A3E	Broadcast, Radio Uganda
ARSK	7200.0	vt	dly	6	SDN	UiBC	A3E	Broadcast in Arabic, Khartoum.

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

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	REMARKS
DARC	3500,0	2010	14	06	J3E-U	F	UiILL	fishery
DARC	3517,4	1947	28	06	J3E-L	E	UiILL	Spanish fishery, male to female
DARC	3535,0	2124	12	06	J3E-U	F	UiILL	French fishery
DARC	3535,0	1946	21	06	J3E-U	HRV	UiILL	2 male persons in Croatian voice
DARC	3560,0	2059	12	06	J3E-U	E	UiILL	Spanish fishery
DARC	3572,0	1957	08	06	J3E-L		UiILL	male persons, unid, LSB used
DARC	7000,0	0811	01	06	J3E-U	I	UiILL	Italian fishery
DARC	7000,0	0856	09	06	J3E-U	M.Ea	UiILL	pirates
DARC	7000,0	2107	17	06	J3E-U	POR	UiILL	pirates in Portuguese voice
DARC	7000,0	0755	19	06	J3E-U	E	UiILL	Spanish fishery
DARC	7000,0	2045	24	06	J3E-U		UiILL	traffic in unid voice, roger beep
DARC	10101,0	1708	13	06	J3E-U	F.Ea	UiILL	Far East pirates
DARC	10120,0	2052	15	06	J3E-U	E	UiILL	pirates in Spanish voice
DARC	10122,0	1352		06	J3E-U	RUS	UiILL	male Russian voice, spelling numbers
DARC	10125,0	0818	19	06	J3E-U	F	F6CHT	OP Joel Fournol, 56590 Isle de Groix
DARC	10125,0	vt	vd	06	J3E-U	F	French Lis Amateurs	who do not follow the IARU Band Plan, heard 08 09 at 0941, 0929
DARC	10130,0	00810	19	06	J3E-U	F	F6CHI	French amateurs, no respect of IARU Band Plan: no SSB in Band 10!
DARC	10132,0	0911	16	06	J3E-U	F	French Lis Amateurs	interfering CW-QRP
DARC	10134,0	0933	17	06	J3E-U	F	F6DCN	OP Hervé, often heard b4: 03 04 10 11 Dec 2007, April 2009 - is hardcore offender

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	REMARKS	
								against IARU Bandplan: No SSB in Band 10	
DARC	10134,0	0933	17	06	J3E-U	F	F5AC	OP Anatole Carpentier, 62520 Le Touquet	
DARC	10134,0	0931	25	06	J3E-U	F	French Lis Amateurs	French amateurs, no respect of IARU Band Plan: no SSB in Band 10!	
DARC	10150,0	0607	04	06	J3E-U	E	UiILL	Spanish fishery	
DARC	10150,0	1705	15	06	J3E-U	E	UiILL	fishery	
DARC	10150,0	2018	23	06	J3E-U		UiILL	traffic in Arabic voice	
DARC	10150,0	1957	30	06	J3E-U	KOR	UiILL	Korean ships	
DARC	14000,0	1825	03	06	J3E-U	I	UiILL	Italian fishery	
DARC	14000,0	1901	05	06	A3E	ISR	ULX2	female synthetic voice "Uniform Lima X-Ray Two" - is Mossad	
DARC	14000,0	2038	07	06	J3E-U		UiILL	Ar pirates	
DARC	14000,0	vt	10	06	J3E-U	F	UiILL	pirates in French, poss. Fishery - heard at 0950 and 1930	
DARC	14000,0	1802	11	06	A3E	ISR	EZ12	female synthetic voice "Echo Zulu India Two" - is Mossad	
DARC	14000,0	0928	25	06	J3E-U	CLN	UiILL	Tamil pirates	
DARC	14000,0	vt	vd	06	J3E-U	Af	UiILL	net in Tribal and French voice, heard 02 - 17 (11 reports!), times 0725 - 1745	
DARC	14001,0	1326	25	06	J3E	CLN	UiILL	Tamil pirates, SSB-USB and LSB used	
DARC	14001,6	1440	23	06	J3E-L	CLN	UiILL	Tamil fishery. SSB-LSB used!	
DARC	14003,2	1044	30	06	J3E-U	CLN	UiILL	Tamil pirates	
DARC	14005,2	1045	30	06	J3E-U	CLN	UiILL	Tamil pirates	
DARC	14020,0	0741	10	06	J3E-U	E	UiILL	Spanish pirates	
DARC	14101,3	0818	14	06	J3E-U	Af	UiILL	African pirates, Tribal language, no calls	
DARC	18101,0	0914	02	06	J3D-U		UiILL	male persons in Arabic voice	
DARC	21070,0	1346	21	06	J3E-U	F	UiILL	pirates in French voice	
DARC	21110,0	1852	06	06	J3E-U	E	UiILL	male and female persons in Spanish "estoy por aqui"	
DARC	21152,0	1939	16	06	J3E-U	MRC	UiILL	Moroccan fishery, engine noise	
DARC	28000,0	2208	10	06	F3E	I	UiILL	Italian CB-ers	
DARC	28000,0	2140	21	06	J3E-U	E	UiILL	Spanish CB-ers, SSB-USB	
DARC	28000,0	vt	vd	06	F3E	CIS	UiILL	taxis, 28000 - 29700 - all day, daily	
DARC	28005,0	0852	12	06	F3E	RUS	UiILL	Russian taxi	
DARC	28065,0	0915	08	06	A3E	E	UiILL	Spanish CB-ers	
DARC	28085,0	2145	06	06	A3E	E	UiILL	Spanish CB-ers	
DARC	28085,0	1308	11	06	A3E	E	UiILL	Spanish CB-ers	
DARC	28115,0	1428	16	06	A3E	E	UiILL	Spanish CB-ers	
DARC	28125,0	0932	08	06	A3E	E	UiILL	Spanish CB-ers	
DARC	28145,0	1832	14	06	F3E	F	UiILL	French CB-ers	
DARC	28155,0	1357	11	06	A3E	F	UiILL	French CB-ers	
DARC	28225,0	1922	11	06	F3E	F	UiILL	French CB-ers	
DARC	28225,0	1708	16	06	F3E	RUS	UiILL	taxi business, male to female	
DARC	28225,0	0730	22	06	A3E	E	UiILL	Spanish pirates, engine noise	
DARC	28275,0	1951	12	06	A3E	E	UiILL	Spanish CB-ers	
DARC	28275,0	1952	20	06	A3E	E	UiILL	Spanish CB-ers	
DARC	28285,0	0916	17	06	A3E	E	UiILL	Spanish CB-ers	
DARC	28305,0	2000	20	06	F3E	HRV	UiILL	CB-ers in Croatian voice	
DARC	28310,0	1024	03	06	A3E	E	UiILL	Spanish CB-ers	
DARC	29505,0	1920	07	06	F3E	I	Echo1	Echo-1 calling Romeo-Alfa, Italian	
DARC	29505,0	1920	07	06	F3E	I	Romeo-Alfa	Echo-1 calling Romeo-Alfa, Italian	

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

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	REMARKS AND OBSERVATIONS
DARC	1812,6	1940	04	06	A3E	POL	The Pip			10 tones in AM
DARC	1896,5	ady	dly	06	G7D	D				Stanag-4285, 2k4, 8PSK, is German Navy – lgeal!
DARC	3503,5	2014	08	06	FSK8	G	UiMUX	125	1750	ALE, selcalls XSS, XPU - is

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	REMARKS AND OBSERVATIONS
										British MIL-TASCOMM
DARC	3517,0	1920	02	06	G7B		UiMUX			frequency hopper
DARC	3517,7	1913	22	06	F1B		UiPTR	75	850	unid printer
DARC	3533,7	2019	04	06	J7D		UiMUX			Link-11, 2,3 kHz wide
DARC	3550,0	0711	06	05	A3E	F	French Lis Amateurs			no BC but French lis Amateurs in AM, daily
DARC	3553,8	1922	04	06	G7D	TUR	UiMUX	2k4		Stanag-4285, 2k4, 8PSK, ady, dly
DARC	3559,9	2008	29	06	F1B	CIS	UiPTR	81	200	unid printer system "81"
DARC	3608,0	1933	04	06	F1B	POL	UiPTR	50	200	unid printer, location North of Warsaw
DARC	3676,0	1912	20	06	F1B	LVA	UiPTR	75	250	unid printer location Riga
DARC	3756,0	1958	01	06	A3E	UKR	The Pip			10 tones, ady, dly
DARC	3772,0	2005	01	06	F1B	RUS	UiPTR	50	200	unid printer
DARC	7000,0	0603	01	06	G7B		UiMUX			frequency hopper, vt, dly
DARC	7000,0	1015	20	06	J7D	RUS	UiMUX	120	2600	MPSK-12, AT-3004-D,
DARC	7002,0	0816	20	06	J7D	RUS	UiMUX			MPSK-12, AT-3004-D,
DARC	7004,9	0609	04	06	MFSK 16	SUI	UiMUX			16-tone-system 2,4 kHz wide, location Bern
DARC	7008,0	0612	17	06	F1B	RUS	UiPTR	75	250	unid printer
DARC	7008,0	vt	vd	06	F1B	RUS	UiPTR	50	250	unid printer located
DARC	7010,0	1347	22	06	FSK8	MKD	UiMUX	125	1750	ALE, selcalls RS0016A, CS002B - is Macedonian MIL, dly, vt
DARC	7010,0	1455	23	06	J7D	RUS	UiMUX			MPSK-12, AT-3004-D - location East of Moscow
DARC	7016,0	1647	03	06	J7D		UiMUX			MPSK-12, AT-3004-D
DARC	7018,0	1557	23	06	J7D	UKR	UiMUX	120	2600	MPSK-12, AT-3004-D - location North of Kiev
DARC	7020,0	1354	22	06	FSK8	MKD	UiMUX	125	1750	ALE, selcalls RS0017, CS004A - is Macedonian MIL, dly, vt
DARC	7022,0	1909	19	06	G7B		UiMUX			frequency hopper
DARC	7035,0	0909	02	06	G7B		UiMUX			frequency hopper, vt, dly
DARC	7036,0	2139	05	06	G7B		UiMUX			frequency hopper
DARC	7038,7	0751	11	06	A1A	UKR	beacon D			Sevastopol
DARC	7038,8	1959	01	06	A1A	RUS	beacon P			Kaliningrad
DARC	7038,9	2025	15	06	A1A	RUS	beacon S			Murmansk
DARC	7039,0	1952	01	06	A1A	RUS	beacon C			Moscow
DARC	7039,9	1356	01	06	A1A	I	IZ3DVW			uncoordinated beacon
DARC	7054,0	vt	vd	06	F1B	RUS	RUS MIL Moscow	50	200	heard 11 - 30 (= 20 reports) at 0628, 1717, 1929, 2000 - is Rus MIL Moscow, daily
DARC	7078,0	vt	vd	06	J7D	RUS	UiMUX			MPSK-12, AT-3004-D
DARC	7085,0	0907	18	06	G7B		UiMUX			frequency hopper
DARC	7086,5	0855	18	06	F1B	RUS	UiPTR		250	reversals
DARC	7089,8	vt	02	06	F1C	UKR	Weather-FAX			weather fax 60 rpm, IOC576, location Sevastopol - heard 1238 - 1240 - 25 reports 02 - 24
DARC	7088,0	1648	03	06	J7D		UiMUX			MPSK-12, AT-3004-D
DARC	7089,0	1030	16	06	F1B	CIS	UiPTR	100	140	unid printer
DARC	7091,0	0910	30	06	J7D	W.Eu	UiMUX	120	2600	MPSK-12, AT-3004-D
DARC	7093,0	vt	vd	06	F1B	UKR	UiPTR	100	140	unid printer heard 09 10 at 0854, 1403 - location Kiev
DARC	7093,0	vt	vd	06	F1B	RUS	UiPTR	100	140	unid printer located Moscow
DARC	7095,0	1408	28	06	A3E	CHN	PBS Nei Menggu			weak, is this a new spur? - report Ron Howard, USA
DARC	7100,0	2028	04	06	A3E	KRE	Voice of Korea (North)			S9-signal
DARC	7100,0	2024	09	06	A3E	KRE	Voice of Korea (North)			S9+10dB

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	REMARKS AND OBSERVATIONS
DARC	7100,0	2018	10	06	A3E	KRE	Voice of Korea (North)			S9+15dB
DARC	7100,0	0935	12	06	A3E	KRE	Voice of Korea (North)			S2
DARC	7105,0	2028	04	06	A3E	TWN	CBS			S6-signal
DARC	7105,0	2024	09	06	A3E		UiBC			Ar px, S8
DARC	7105,0	1413	13	06	A3E	CHN	PBS Nei Menggu			good - report Ron Howard, CA, USA
DARC	7110,0	1614	02	06	A3E	ETH	Radio Ethiopia			S8
DARC	7110,0	1600	03	06	A3E	ETH	Radio Ethiopia			S8
DARC	7110,0	0630	04	06	A3E	ETH	Radio Ethiopia			S4
DARC	7110,0	0556	08	06	A3E	ETH	Radio Ethiopia			
DARC	7110,0	2024	09	06	A3E	ETH	Radio Ethiopia			S9+15dB
DARC	7110,0	0600	10	06	A3E	ETH	Radio Ethiopia			S3
DARC	7110,0	2018	10	06	A3E	ETH	Radio Ethiopia			S9+20dB
DARC	7110,0	0709	11	06	A3E	ETH	Radio Ethiopia			S6-signal
DARC	7110,0	vt	13	06	A3E	ETH	Radio Ethiopia			heard 0300 - 0340, chimes, gongs, Amharic talk, HOA music - report Brian Alexander, PA, USA
DARC	7110,0	vt	13	06	A3E	ETH	Radio Ethiopia			heard 2045 - 2101/ tribal chants, HOA, S/off with National Anthem - report Brian Alexander PA, USA
DARC	7110,0	1609	14	06	A3E	ETH	Radio Ethiopia			S9+10dB-signal
DARC	7110,0	1643	15	06	A3E	ETH	Radio Ethiopia			music
DARC	7110,0	2000	17	06	A3E	ETH	Radio Ethiopia			music and spoken word
DARC	7110,0	1248	22	06	A3E	ETH	Radio Ethiopia			S2-signal
DARC	7110,0	1544	22	06	A3E	ETH	Radio Ethiopia			S7-signal
DARC	7110,0	1408	28	06	A3E		UiBC			sounded Asian, does not believe it was ETH, but who? - report Ron Howard, USA
DARC	7115,0	2028	04	06	A3E	CHN	Nei Menggu PBS			S9+10dB
DARC	7115,0	1413	13	06	A3E	CHN	Nei Menggu PBS (tent.)			weak - report Ron Howard, CA, USA
DARC	7115,0	2003	17	06	A3E	CHN	Nei Menggu PBS (tent.)			music
DARC	7115,0	1408	28	06	A3E	CHN	PBS Nei Menggu			weak, is this also a spur? - all 3 were in parallel - report Ron Howard, USA
DARC	7120,0	vt	10	05	A3E	CHN	Xinjian PBS			heard 1030 - 1230, Kyrgys voice - report Sei-Ichi Hasegawa, Japan

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	REMARKS AND OBSERVATIONS
DARC	7120,0	1544	22	06	A3E		UiBC			carrier S8
DARC	7122,0	vt	vd	06	F1B	RUS	UiPTR "RDL"	50	200	unid printer
DARC	7124,0	1957	15	06	J7D		UiMUX			MPSK-12, AT-3004-D
DARC	7125,0	0630	04	06	A3E		UiBC			carrier S7
DARC	7125,0	2028	04	06	A3E		UiBC			carrier S9
DARC	7125,0	0622	10	06	A3E		UiBC			S6-signal
DARC	7125,0	2018	10	06	A3E		UiBC			S9+10 db, weak modulation
DARC	7125,0	0709	11	06	A3E		UiBC			S5-signal, weak modulation
DARC	7125,0	1609	14	06	A3E		UiBC			S0-signal
DARC	7125,0	vt	dly	04	A3E	CHN	Xizang PBS			Tibetan 1000 - 1805, 2050 - 0200, location Lhasa
DARC	7130,0	1614	02	06	A3E	CHN	CNR-1			S8
DARC	7130,0	1600	03	06	A3E	CHN/ TWN	CNR-1 / CBS			Chinese, 2 diff. Px, S9
DARC	7130,0	1600	04	06	A3E		UiBC			
DARC	7130,0	1640	04	06	A3E		UiBC			Chinese
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	1413	13	06	JAM	CHN	CNR-1			echo jamming Taiwan, found // 5030 - report Ron Howard, CA, USA
DARC	7130,0	1609	14	06	A3E	CHN / TWN	CNR-1 / CBS			2 different px, S9 - found // 7185
DARC	7130,0	1600	15	06	A3E		UiBC			music
DARC	7130,0	1637	16	06	A3E		UiBC			music, male and female speaker
DARC	7130,0	1610	21	06	A3E	CHN	CNR-1			S6, found // 7185
DARC	7130,0	1544	22	06	A3E	CHN / TWN	CNR-1 / CBS			2 px observed, S6
DARC	7130,0	vt	23	06	A3E	TWN	Radio Taiwan Inter- national			heard 1400 - 1800, found // 6145, 7185, 9680, location Area of Kouhu - BNetZA KON
DARC	7130,0	1408	28	06	A3E	CHN	CNR-1			echo jamming Taiwan, found // 5030 - report Ron Howard, CA, USA
DARC	7130,0	1656	28	05	A3E	CHN	CNR-1			1656: 2px // 11925, S9
DARC	7135,0	1614	02	06	A3E	BLR	R. Belarus			S7
DARC	7135,0	1600	03	06	A3E	BLR	R. Belarus			carrier S6
DARC	7135,0	1600	04	06	A3E	BLR	R. Belarus			
DARC	7135,0	1640	04	06	A3E	BLR	R. Belarus			S8
DARC	7135,0	2028	08	06	A3E	BLR	R. Belarus			S9
DARC	7135,0	2024	09	06	A3E	BLR	R. Belarus			S9+10dB
DARC	7135,0	1312	10	06	F1B	UKR	UiPTR	81	250	unid printer, location West of Kiev
DARC	7135,0	2018	10	06	A3E	BLR	R. Belarus			weak modulation, S9+15dB
DARC	7135,0	1510	12	06	A3E	BLR	R. Belarus			S5-signal, weak modulation
DARC	7135,0	1609	14	06	A3E	BLR	R. Belarus			S9-signal

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	REMARKS AND OBSERVATIONS
DARC	7135,0	1610	21	06	A3E	BLR	R. Belarus			S6-signal
DARC	7135,0	1544	22	06	A3E	BLR	R. Belarus			carrier S5
DARC	7140,0	2030	09	06	A3E		UiBC			
DARC	7140,0	vt	10	05	A3E	KRE	Voice of Korea (North)			heard 0700 - 1250 - report S.Hasegawa, NDXC, Japan
DARC	7140,0	vt	10	05	A3E	RUS	Golos Rossiye			heard 1250 - 1500, Yakutsk - report S.Hasegawa, NDXC
DARC	7145,0	1614	02	06	A3E	SOM	R. Hargeisa			S9
DARC	7145,0	1600	04	06	A3E	SOM	R. Hargeisa			
DARC	7145,0	1640	04	06	A3E	SOM	R. Hargeisa			HOA music, S9
DARC	7145,0	1609	14	06	A3E	SOM	R. Hargeisa			Ar px S9
DARC	7145,0	1628	14	06	A3E	SOM	R. Hargeisa			HOA music S9+10dB
DARC	7145,0	1653	15	06	A3E	SOM	R. Hargeisa			music
DARC	7145,0	1610	21	06	A3E	SOM	R. Hargeisa			S6-signal
DARC	7145,0	1544	22	06	A3E	SOM	R. Hargeisa			HOA music S6
DARC	7145,0	vt	dly	06	A3E	LAO	Laos Ntl. Radio			0000-0030: Cambodian
DARC	7145,0	vt	dly	06	A3E	LAO	Laos Ntl. Radio			0500-0530: Thai
DARC	7145,0	vt	dly	06	A3E	LAO	Laos Ntl. Radio			0530-0600: French
DARC	7145,0	vt	dly	06	A3E	LAO	Laos Ntl. Radio			0600-0630: English
DARC	7145,0	vt	dly	06	A3E	LAO	Laos Ntl. Radio			1130-1200: Thai
DARC	7145,0	vt	dly	06	A3E	LAO	Laos Ntl. Radio			1200-1230: Vietnamese
DARC	7145,0	vt	dly	06	A3E	LAO	Laos Ntl. Radio			1230-1300: Cambodian
DARC	7145,0	vt	dly	06	A3E	LAO	Laos Ntl. Radio			1300-1330: Fr px - report VU2UR
DARC	7145,0	vt	dly	06	A3E	LAO	Laos Ntl. Radio			1330-1400: En px - report VU2UR
DARC	7145,0	vt	dly	06	A3E	LAO	Laos Ntl. Radio			2330-2400: Vietnamese
DARC	7160,0	vt	02	06	A3E	ETH	ETH- JAM			heard 1614 - 1620 s/off, noise 10 kHz spread
DARC	7160,0	1625	03	06	A3E		UiBC			carrier
DARC	7162,0	0939	08	06	F1B		UiPTR	75	250	unid printer
DARC	7165,0	1630	02	06	A3E	CHN / TWN	CNR1 / CBS			2 px
DARC	7165,0	1558	03	06	A3E		UiBC			S9
DARC	7165,0	1605	03	06	A3E	ETH	ETH- JAM			noise 10 kHz
DARC	7165,0	1600	04	06	A3E		UiBC			
DARC	7165,0	1607	04	06	A3E	ETH	ETH- JAM			noise S9+20dB, 10 kHz spread, s/on
DARC	7165,0	0709	11	06	A3E	ETH	R. Ethiopia			S5-signal, weak modulation
DARC	7165,0	0935	12	06	A3E		UiBC			S1
DARC	7165,0	1413	13	06	A3E	ETH	Radio Ethiopia			1st time heard - report Ron Howard, CA, USA

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	REMARKS AND OBSERVATIONS
DARC	7165,0	1609	14	06	A3E	ETH	ETH-JAM			rushing noise S9+15dB
DARC	7165,0	1610	14	06	A3E	ERI	VOBM			rushing noise has gone, music audible
DARC	7165,0	1623	14	06	A3E		UiBC			Ar and another px S9+10dB
DARC	7165,0	1609	15	06	A3E	ERI / ETH	ETH-JAM			voice, music with jammer
DARC	7165,0	vt	21	06	A3E	ETH	ETH-JAM			1610 - 1654: rushing noise S9+10dB
DARC	7165,0	1248	22	06	A3E		UiBC			S1-signal
DARC	7165,0	1544	22	06	A3E		UiBC			S7-signal
DARC	7165,0	1408	28	06	A3E	ETH	Radio Ethiopia			usual chanting, singing
DARC	7166,0	1854	02	06	A1A		UiCW			encrypted groups with numbers and letters
DARC	7170,0	vt	vd	06	F1B	N.Eu	UiPTR	75	200	unid ship heard 13 14 15 16 17 18 at 0545 - 0817, 1313 - is ship North of Norway
DARC	7171,0	1641	16	06	A3E		UiMUX			mux
DARC	7171,0	1652	16	06	A3E		UiMUX			mux
DARC	7171,0	2005	17	06	A3E		UiMUX			mux
DARC	7172,0	0746	21	06	F1B		UiPTR			
DARC	7172,0	0702	22	06	F1B	S.Eu	UiPTR	40.5	200	unid printer, system FROST-1
DARC	7175,0	1630	02	06	A3E	CHN	Xizang PBS			Chinese px, S8
DARC	7175,0	1600	03	06	A3E	ETH	ETH-JAM			noise s/on S9+10dB, 10 kHz spread
DARC	7175,0	1605	03	06	A3E	ETH	ETH-JAM			noise has gone
DARC	7175,0	0630	04	06	A3E		UiBC			S6-signal
DARC	7175,0	1600	04	06	A3E	ETH	ETH-JAM			noise s/on S9+10dB, 10 kHz spread
DARC	7175,0	1607	04	06	A3E	ETH	ETH-JAM			noise has gone
DARC	7175,0	1729	06	05	JAM	ETH	ETH-JAM			ETH jamming ERI BC with white noise, 9 kHz spread
DARC	7175,0	0556	08	06	A3E	ERI	VOBM			HOA music, S9
DARC	7175,0	2024	09	06	A3E	ERI	VOBM			HOA music, S8
DARC	7175,0	0600	10	06	A3E	ERI	VOBM			HOA music, S7
DARC	7175,0	2030	10	06	A3E	ERI	VOBM			nil
DARC	7175,0	0709	11	06	A3E	ERI	VOBM			Ar px, S8
DARC	7175,0	1609	14	06	A3E		UiBC			S9+10dB-signal
DARC	7175,0	1610	14	06	A3E	ERI / ETH	ERI-JAM			rushing noise s/on
DARC	7175,0	1614	15	06	A3E		VOBM / R. Ethiopia			music, voice - jammer
DARC	7175,0	0745	21	06	A3E		VOBM / R. Ethiopia			Ar px S6
DARC	7175,0	1544	22	06	A3E		UiBC			S7-signal
DARC	7176,0	0848	04	06	F1B	LVA	UiPTR	75	250	unid printer
DARC	7180,0	1615	15	06	A3E		UiBC			music
DARC	7180,0	vt	dly	06	A3E	CHN	CNR1			px in English voice
DARC	7185,0	1558	03	06	A3E	CHN / TWN	CNR1 / CBS			2 Chinese px, S9+10dB
DARC	7185,0	1600	04	06	A3E		UiBC			Chinese px
DARC	7185,0	1640	04	06	A3E		UiBC			Chinese px
DARC	7185,0	1413	13	06	JAM	CHN	CNR-1			echo jamming Taiwan, found // 5030 - report Ron Howard, CA, USA
DARC	7185,0	1609	14	06	A3E	CHN	CNR-1			S9-signal, found // 7130

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	REMARKS AND OBSERVATIONS
DARC	7185,0	1610	14	06	A3E		UiBC			S8
DARC	7185,0	1626	14	06	A3E		UiBC			Chinese px
DARC	7185,0	1606	15	06	A3E		UiBC			music and spoken word
DARC	7185,0	1642	16	06	A3E		UiBC			music
DARC	7185,0	1610	21	06	A3E	CHN	CNR-1			S6-signal, found // 7130
DARC	7185,0	1544	22	06	A3E		UiBC			Chinese px, S7
DARC	7185,0	vt	23	06	A3E	TWN	Radio Taiwan International			heard 1300 - 1800, found // 6145, 7130, 9680, location Area of Kouhu - BNetZA KON
DARC	7185,0	1408	28	06	A3E	CHN	CNR-1			echo jamming Taiwan, found // 5030 - report Ron Howard, CA, USA
DARC	7185,5	1940	22	06	F1B	UKR	UiPTR	100	140	unid printer
DARC	7186,0	0741	06	05	J7D	N.Eu	UiMUX			MPSK-12, AT-3004-D
DARC	7186,0	0709	11	06	XXX		UiMUX			mux
DARC	7186,0	vt	vd	06	J7D	N.Eu	UiMUX	120	2600	MPSK-12, AT-3004-D
DARC	7186,0	vt	vd	06	J7D	FIN	UiMUX			MPSK-12, AT-3004-D
DARC	7190,0	0300	26	05	A3E	CLN	SLBC Colombo			SLBC broadcasting to South America, excellent till 0300 - report VU2UR
DARC	7195,0	vt	14	05	A3E	CHN	Xinjiang PBS			has left 7195 and gone to 7205 - report Olle Alm, Sweden
DARC	7195,0	1408	28	06	A3E	CHN	PBS Nei Menggu			good signal - report Ron Howard, USA
DARC	7196,0	0600	10	06	A3E		UiBC			QRG 7196, S5 - report DJ9KR
DARC	7198,0	1026	23	06	J7D	RUS	UiMUX	120	2600	MPSK-12, AT-3004-D
DARC	7200,0	1630	02	06	A3E		UiBC			S9
DARC	7200,0	0630	03	06	A3E		UiBC			S7
DARC	7200,0	0630	04	06	A3E		UiBC			S7
DARC	7200,0	1600	04	06	A3E		UiBC			S89+10dB-signal
DARC	7200,0	0556	08	06	A3E	SDN	Radio Omdurman			Ar px
DARC	7200,0	0600	10	06	A3E	SDN	Radio Omdurman			S7
DARC	7200,0	vt	10	05	A3E	SDN	Radio Omdurman			heard 0320 - 0432, ann.: Huna Omdurman - report Brian Alexander, USA
DARC	7200,0	0709	11	06	A3E		UiBC			S6-signal
DARC	7200,0	0935	12	06	A3E		UiBC			S1
DARC	7200,0	1413	13	06	A3E	RUS	R. Rossiye			Yakutsk station, good - report Ron Howard, CA, USA
DARC	7200,0	vt	13	06	A3E	SDN	Radio Omdurman			heard /0239 - 0429/ s/on with Qur'an recitals, Arabic talk, time pips at 0300 and 0400 - report Brian Alexander, PA, USA
DARC	7200,0	1630	14	06	A3E		Radio Omdurman			Arabic px s/on
DARC	7200,0	1607	15	06	A3E		UiBC			splatters from 7205
DARC	7200,0	1646	15	06	A3E		UiBC			music
DARC	7200,0	1643	16	06	A3E		UiBC			splatters from 7205
DARC	7200,0	2007	17	06	A3E		UiBC			splatters from 7205
DARC	7200,0	0733	18	06	A3E	SDN	Radio Omdurman			0733: HOA music S5-7
DARC	7200,0	1905	18	06	A3E	IRN	VOIRI			1905: S9+10dB
DARC	7200,0	1626	21	06	A3E		UiBC			carrier S8

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	REMARKS AND OBSERVATIONS
DARC	7200,0	0215	26	05	A3E	BRM	R. Myanma			R. Myanma going beyond - report VU2UR
DARC	7200,0	vt	26	05	A3E	IND	AIR Kolkata			wrong frequency punched - report VU2UR
DARC	7200,0	1408	28	06	A3E	RUS	Radio Rossiye			via Yakutsk, good - report Ron Howard, CA-USA, Eton E1, dxldyg via DY LISTENING DIGEST
DARC	10102,9	1440	18	06	F1B	CIS	UiPTR	53	500	52,6 Bd, idling
DARC	10105,0	0605	04	06	J7D		UiMUX			MPSK-12, AT-3004-D
DARC	10108,0	vt	vd	06	F1B	RUS	UiPTR	50	200	unid printer
DARC	10112,0	0730	01	06	G7D	TUR	UiMUX			Stanag-4285, 2k4, 8PSK, is Turkish MIL, ady, dly
DARC	10114,7	0606	04	06	F1B	CIS	UiPTR	96	1000	CIS-14
DARC	10118,0	vt	vd	06	F1B	RUS	UiPTR	75	250	unid printer
DARC	10120,0	0852	08	06	J7D	RUS	UiMUX			MPSK-12, AT-3004-D
DARC	10120,0	vt	vd	06	J7D	RUS	UiMUX	120	2600	MPSK-12, AT-3004-D
DARC	10122,0	1340	01	06	F1B	RUS	UiPTR	100	500	unid printer
DARC	10127,0	1350	21	06	G7B		UiMUX			frequency hopper
DARC	10130,0	1107	01	06	FSK8		UiMUX	125	1750	Thales Skymaster, FSK8, vt, dly
DARC	10130,0	ady	dly	06	F1B	USA	UiPTR	50	850	unid printer, location USA - ady, dly
DARC	10130,0	1955	08	06	FSK8		UiMUX			Thales Skymaster, FSK8, 8 x 125 Bd, unid, vt, dly
DARC	10131,5	1350	11	06	F1B	CIS	UiPTR	75	200	unid printer
DARC	10131,6	1858	08	06	FSK8	ARS	UiMUX	125	1750	ALE, selcall RCI
DARC	10133,0	1946	17	06	J7D	CIS	UiMUX			MPSK-12, AT-3004-D
DARC	10133,0	1045	24	06	A1A		UiCW			5L groups
DARC	10137,3	1700	14	06	A1A	I	IK3NW X/ beacon			is active
DARC	10140,0	1830	30	06	P0N	G/ CYP	British OTH- Radar			50 pps-system
DARC	10140,0	2049	30	06	G7B		UiMUX			frequency hopper
DARC	10142,0	1530	10	06	MFSK		UiMUX	40		CIS-36, 36 tones, 40 Bd, unid
DARC	10143,0	1026	17	06	F1B	RUS	UiPTR	75	250	unid printer
DARC	10143,0	vt	vd	06	F1B	RUS	UiPTR	75	250	unid printer
DARC	10145,0	0740	01	06	J7D	RUS	UiMUX	120	2600	MPSK-12, AT-3004-D
DARC	14000,0	1437	01	06	G7B		UiMUX			frequency hopper, vt, dly
DARC	14000,0	1901	05	06	A3E	ISR	ULX2			female spelling "Uniform Lima X-Ray Two" - is Mossad!
DARC	14000,0	1749	07	06	FSK8	ALB	UiMUX	125	1750	ALE, selcalls BUR, TOPOJANI
DARC	14000,0	1209	11	06	FSK8		UiMUX	125	1750	ALE, selcalls 100, 1006
DARC	14000,0	1802	11	06	A3E	ISR	EZ12			female synthetic voice spelling "Echo Zulu India Two" - is Mossad, Israel
DARC	14000,0	1600	28	06	P0N	F	OTH Nostra- damus			OTH radar 33 1/3 pps, location near Chartres - fundamental found on 13960 - bandwidth 150 - 200 kHz spread
DARC	14000,0	1453	vd	06	A3E		UiBC			BC-IM, unid, very distorted - heard 17 18
DARC	14000,0	vt	vd	06	A3E	ISR	PCD2			female spelling "Papa Charlie Delta Two" - is Mossad!
DARC	14000,0	vt	vd	06	P0N	F	OTH Nostra- damus			OTH radar 33 1/3 pps, location Dreux - heard 24 25 28 29 at 0718, 0740, 1615 -

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	REMARKS AND OBSERVATIONS
										fundamental found on 13960 - bandwidth 150 - 200 kHz spread
DARC	14001,5	0900	07	06	G7D		UiMUX			Clover-2000 - 8 x 62,5 Bd, BPSK - unid
DARC	14001,8	0901	08	05	F1B		UiPTR	100	170	Codan, selcalls 1234, 5678 south-west
DARC	14008,0	vt	vd	06	F1B	RUS	UiPTR	50	250	unid printer
DARC	14024,0	0632	15	06	G7B		UiMUX			frequency hopper
DARC	14026,0	vt	vd	06	J7D	RUS	UiMUX	120	2600	MPSK-12, AT-3004-D
DARC	14064,0	0626	12	06	F1B	RUS	UiPTR	50	250	unid printer located Novosibirsk
DARC	14066,0	0814	11	06	J7D		UiMUX			MPSK-12, AT-3004-D
DARC	14070,0	2016	19	06	G7B		UiMUX			frequency hopper
DARC	14084,0	0714	05	06	F1B	RUS	UiPTR	75	250	unid printer
DARC	14086,0	0619	17	06	J7D	RUS	UiMUX			MPSK-12, AT-3004-D
DARC	14104,0	0820	08	05	F1B	RUS	UiPTR	41	250	unid printer 40,5 Bd - system FROST-1
DARC	14110,0	0915	10	06	F1B	RUS	UiPTR	75	250	unid printer
DARC	14116,0	vt	vd	06	F1B	LTU	UiPTR	50	250	unid printer heard 11 12 13 20 at 0628 - 1352
DARC	14120,0	0748	29	06	G7B		UiMUX			frequency hopper
DARC	14122,0	0726	03	06	J7D	RUS	UiMUX	120	2600	MPSK-12, AT-3004-D
DARC	14122,0	vt	vd	06	J7D	RUS	UiMUX			MPSK-12, AT-3004-D
DARC	14144,0	0548	11	06	J7D	RUS	UiMUX			MPSK-12, AT-3004-D
DARC	14162,0	0715	05	06	J7D		UiMUX			MPSK-12, AT-3004-D
DARC	14162,0	0902	05	06	J7D		UiMUX	120	2600	MPSK-12, AT-3004-D
DARC	14186,0	0726	03	06	J7D	RUS	UiMUX			MPSK-12, AT-3004-D
DARC	14188,0	0815	11	06	J7D		UiMUX			MPSK-12, AT-3004-D
DARC	14190,0	1718	05	06	G7B		UiMUX			frequency hopper
DARC	14192,0	vt	vd	05	F1B	RUS	UiPTR	50	500	unid printer
DARC	14192,0	vt	vd	06	F1B	RUS	RUS	50	500	heard 20 22 at 1718, 1755
DARC	14208,0	0750	29	06	G7B		UiMUX			frequency hopper
DARC	14217,9	0903	05	06	F1B	RUS	UiPTR	51	500	unid printer
DARC	14221,0	vt	vd	06	F1B	RUS	UiPTR	50	200	unid printer
DARC	14232,0	0753	01	06	F1B	BLR	UiPTR	75	250	unid printer
DARC	14233,0	0716	05	06	F1B	RUS	UiPTR	75	250	unid printer
DARC	14233,0	0904	05	06	F1B	RUS	UiPTR	75	250	unid printer
DARC	14240,0	0905	05	06	F1B	BLR	UiPTR	75	250	unid printer
DARC	14240,0	vt	vd	06	F1B	RUS	UiPTR	75	250	unid printer
DARC	14242,0	0816	01	06	J7D	RUS	UiMUX			MPSK-12, AT-3004-D
DARC	14292,0	0705	22	06	F1B	RUS	UiPTR	100	250	unid printer
DARC	14295,1	1720	03	06	A3E	TJK	Radio Tajikistan			3rd harmonic of 4765, daily
DARC	14321,7	1700	04	06	F1B	EGY	KKVA	100	170	SITOR-A, is MFA Cairo with EGY Emba Lagos, NIG - selcall KKVA
DARC	14321,7	1700	04	06	F1B	NIG	KKVA	100	170	SITOR-A, is MFA Cairo with EGY Emba Lagos, NIG - selcall KKVA
DARC	14321,7	1012	05	06	F1B	EGY	KKVA	100	170	SITOR-A, is MFA Cairo with EGY Emba Lagos, NIG - selcall KKVA
DARC	14321,7	1012	05	06	F1B	NIG	KKVA	100	170	SITOR-A, is MFA Cairo with EGY Emba Lagos, NIG - selcall KKVA
DARC	14325,0	1733	17	06	FSK8	CHN	UiMUX	125	1750	ALE, selcalls 101, 135 - is CHN PRC PLA - daily
DARC	14328,0	1409	20	06	G7B		UiMUX			frequency hopper
DARC	14328,4	1630	dly	06	F1B	LBY	KRE Emba Tripoli	600	600	DPRK-FSK-600 DPRK Emba Tripoli
DARC	14420,0	2023	16	06	JAM	CHN	Hainan Music			is active - just info!

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	REMARKS AND OBSERVATIONS
							Jammer			
DARC	18070,0	1419	21	06	G7B		UiMUX			frequency hopper
DARC	18075,0	1849	21	06	G7B		UiMUX			frequency hopper
DARC	18081,9	0842	19	06	F1B		UiPTR	50	500	unid printer
DARC	18100,0	1850	08	06	A1A	I	IK6BAK			un-coordinated beacon
DARC	21000,0	1856	07	06	G7B		UiMUX			frequency hopper
DARC	21005,0	0710	17	06	P0N	G / CYP	British OTH-Radar			50 pps
DARC	21040,0	0910	16	06	P0N	G / CYP	British OTH-Radar			50 pps
DARC	21125,4	1530	22	06	G7D	E	UiMUX	2k4		Stanag-4285, 2k4, 8PSK, 600 bps long
DARC	21180,0	1925	10	06	G7B		UiMUX			frequency hopper
DARC	21265,0	1040	15	06	P0N	G / CYP	British OTH-Radar			50 pps
DARC	24895,0	0905	13	06	G7B		UiMUX			frequency hopper
DARC	24900,0	0907	05	06	G7B		UiMUX			frequency hopper
DARC	24900,0	vt	vd	06	P0N	HRV	Codar HF-Radar			heard 01 03 11 12 14 17 19 20-23 at 0651 - 1940
DARC	24902,0	0705	11	06	G7B		UiMUX			frequency hopper
DARC	24910,0	vt	vd	06	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	28000,0	0658	12	06	G7B		UiMUX			frequency hopper
DARC	29684,8	vt	01	06	G7D	I	UiMUX			serial modem
DARC	29684,8	1820	vd	06	Serial Modem	I	UiMUX			serial modem
DARC	29699,8	vt	01	06	G7D	I	UiMUX			serial modem
DARC	29699,8	1820	vd	06	Serial Modem	I	UiMUX			serial modem

IRTS – Ireland – EI4GXB (Ger)

MRASZ – Hungary - HA7PL (Laci)

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	REMARKS
MRASZ	7002,0	0-24	DLY	6	FSK8	UNID	ALE	125	1750	BP21 SOUNDED
MRASZ	7005,0	0-24	DLY	6	FSK8	UNID	ALE	125	1750	HUNGARIAN ARMY: 035 CALLS 082, 093
MRASZ	7010,0	0-24	DLY	6	FSK8	UNID	ALE	125	1750	RS - CS NETWORK WAS BUSY AS USUAL.
MRASZ	7020,0	0-24	DLY	6	FSK8	UNID	ALE	125	1750	RS - CS NETWORK WAS BUSY AS USUAL.
MRASZ	7045,0	0-24	DLY	6	FSK8	UNID	ALE	125	1750	2001 CALLS 2012
MRASZ	7080,0	0-24	DLY	6	FSK8	MDA	ALE	125	1750	5810 SOUNDED.
MRASZ	7085,0	0-24	DLY	6	FSK8	HNG	ALE	125	1750	HUNGARIAN ARMY: 035 CALLS 082, 093
MRASZ	7107,0	0-24	DLY	6	FSK8	UNID	ALE	125	1750	437805 SOUNDED
MRASZ	7116,0	0-24	DLY	6	FSK8	UNID	ALE	125	1750	1712 SOUNDED
MRASZ	7138,0	0-24	DLY	6	FSK8	BIH	ALE	125	1750	FOC CALLS: FOC1, OOGORAZDE, OOCOTESANJ (BOSNIA)
MRASZ	7140,0	0-24	DLY	6	FSK8	UNID	ALE	125	1750	1708 SOUNDED
MRASZ	7149,0	0-24	DLY	6	FSK8	ALB	ALE	125	1750	5810 SOUNDED.

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	REMARKS
										ALBANIAN MOPO
MRASZ	7150,0	0-24	DLY	6	FSK8	MDN	ALE	125	1750	MOLDOVAN ARMY: CODRU, GRANIT, ACORD
MRASZ	7161,0	0-24	DLY	6	FSK8	G	ALE	125	1750	XSS SOUNDING.
MRASZ	7197,0	0-24	DLY	6	FSK8	UNID	ALE	125	1750	4 FIGURES NET
MRASZ	14000,0	0-24	DLY	6	FSK8	UNID	ALE	125	1750	502 SOUNDING

OEVSV – Austria – OE3DMA (Alex)

REP – Portugal – CT4AN (Jose Francisco)

SOC	KHz	UTC	DD	MM	ITU	IDENT	MODE	DETAILS
REP	7038,6	19.25	11	06	RUS	S	A1A	MURMANSK, ADY, DLY 6.3uV S6
REP	7038,7	19.22	11	06	UKR	D	A1A	SEVASTOPOL, ADY, DLY 25uV S8
REP	7039,5	19.28	11	06	I	IZ3DVW	A1A	Monselice BEACON OUT OF IARU PLAN 3.1uV S5
REP	7100	12.45	07	06	E		FSK8	ALE 6uV S6
REP	7100	19.20	11	06			8k00 A3EGN	BROADCASTING 3.1uV S5
REP	7110	19.12	11	06			8k00 A3EGN	BROADCASTING 25uV S8
REP	7125	19.18	11	06			8k00 A3EGN	BROADCASTING 25uV S8
REP	7175	19.10	11	06			8k00 A3EGN	BROADCASTING 12.5uV S7
REP	7200	19.08	11	06			8k00 A3EGN	BROADCASTING 12.5uV S7
REP	24930	11.00	03	06	HRV		P0N	CODAR HF Radar
REP	24930	17.00	09	06	HRV		P0N	CODAN HF Radar
REP	28315	15.50	12	06	E		J3E-L	Spanish talkers (2) fishers at sea
REP	28315	18.00	17	06	E		J3E-L	Spanish talks - fishers sea to harbour
REP	28325	15.30	11	06	E		J3E-L	Spanish talks - fishery
REP	28325	17.30	15	06	POR		J3E-L	Portuguese language fishers at sea
REP	28350	10.25	21	06	E		J3E-L	Spanish fishers conference (6 users)
REP	28502	09.18	09	06			CW	Daily steady carrier on S 8 09-18 UTC
REP	28505	15.00	27	06	E		A3E	Spanish families talking one to each other
REP	28515	11.00	13	06	POR		J3E-L	Portuguese language fishers at sea

RSGB - Great Britain – G4BOH (Chris)

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	REMARKS
RSGB	7030	1400-2300	DLY	06	BLR	BC stn A09	A3E	Spurious sig from BC antennas using 7210 kHz and 7390 kHz at Minsk tx site. Baldock informed Belarus authorities. Observations continue.

SRAL – Finland – OH2BLU (Pekka)

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	REMARKS
SRAL	3658.0	1930-2200	2	6	KAZ	V	A1A		
SRAL	7000,0	0630-1600	*	6	RUS	UiMUX	J7D		Days 2, 3, 4, 17, 20
SRAL	7000,0	0235	17	6	RUS	M7WG	A1A		Calls PXXV etc.
SRAL	7008,0	0530-1930	*	6	RUS	UiPTR	F1B	250	Days 8, 11, 12, 13, 30. Also J7D reported
SRAL	7013,0	0910	24	6	RUS	UiMUX	J7D		
SRAL	7016,0	1330-1930	11, 12	6		UiPTR	F1B		
SRAL	7018,0	0430-1930	21-24	6	RUS	UiMUX	J7D		Also F1B reported
SRAL	7019,0	1215-1530	8,24	6	RUS	RAL2	A1A		Calls RMW2 etc.
SRAL	7025,0	0530-1545	*	6	RUS	UiPTR	F1B	200	Days 4, 11, 12, 20, 25
SRAL	7038,7	h24	dly	6	UKR	D	A1A		Sevastopol
SRAL	7038,9	h24	dly	6	RUS	S	A1A		Severomorsk
SRAL	7039,0	h24	dly	6	RUS	C	A1A		Moscow
SRAL	7054,0	1900-0500	10-20	6	RUS	UiPTR	F1B	200	25 Hz dotter
SRAL	7054,0	1700-0700	21-30	6	RUS	UiPTR	F1B	200	25 Hz dotter
SRAL	7063,0	1500-1530	8	6		UiMUX	J7D		
SRAL	7078.0	0430-1900	*	6		UiMUX	J7D		Days 16, 24 - 26
SRAL	7080,0	0430-0530	27	6		UiPTR	F1B	200	
SRAL	7093.0	0800-1430	*	6		UiPTR	F1B	150	Days 5 – 10, 14
SRAL	7100,0	1500-1800	dly	6	ERI	VoBME	A3E		
SRAL	7100,0	1800-2100	dly	6	KRE	VoKorea	A3E		
SRAL	7105,0	vt	*	6		UiBC	A3E		Days 3, 5, 15, 19. 5 min periods
SRAL	7110,0	0300-2100	dly	6	ETH	R Ethiopia	A3E		
SRAL	7120,0	0330-1930	22, 23	6		UiBC	A3E		
SRAL	7122,0	0500-2000	dly	6	RUS	RDL	F1B	200	Kaliningrad, dotter 25 Hz
SRAL	7130,0	1400-1800	dly	6	TWN & CHN	RTI & CNR1	A3E		5 – 15 Hz apart
SRAL	7135,0	1500-1930	dly	6	BLR?	UiBC	A3E		
SRAL	7135,0	1410	10	6	UKR?	UiPTR	F1B	250	
SRAL	7145,0	1500-1900	dly	6	SOM	R Hargeisa	A3E		
SRAL	7149,0	0505	17	6	RUS	UiCW	A1A		MR 5BL
SRAL	7149,0	1030-1100	23	6	RUS	UiPTR	F1B	500	Idling
SRAL	7165,0	1130-1930	dly	6	ERI	VoBME	A3E		Jammed by ETH 5 – 15 Hz apart
SRAL	7166.0	1630-1640	29	6	RUS	PVO	A1A		Groups of figures / timestamp
SRAL	7169,0	0830-1700	*	6	RUS	UiMUX	J7D		Also F1B reported
SRAL	7170,0	0230-1930	13-18	6		UiPRT	F1B	200	Ship?
SRAL	7175,0	0400-2000	dly	6	ERI	VoBME	A3E		Jammed by ETH 5 – 15 Hz apart

Society	KHz	UTC	DD	MM	ITU	IDENT	MODE	SH	REMARKS
SRAL	7176,0	0830-1000	4, 8	6	KAZ?	UiPRT	F1B	250	
SRAL	7185,0	1030-1700	dly	6	TWN & CHN	RTI & CNR1	A3E		5 – 15 Hz apart
SRAL	7186,0	0330-1930	*	6	RUS	UiMUX	F1B		Days 6, 11 – 14, 17
SRAL	7200,0	0230-2000	dly	6	SDN	R Sudan	A3E		
SRAL	10140	1615-1840	30	6	CYP	UiOTHR	P0N		50 Hz pulses
SRAL	14008	1105	24	6	RUS	UiPTR	F1B		
SRAL	14026	0630-1345	*	6	RUS	UiMUX	J7D		Days 8, 15, 16, 24
SRAL	14062	0855	11	6	RUS	UiMUX	J7D		
SRAL	14104	0830-0930	8	6	RUS	UiPTR	F1B	250	
SRAL	14108	0910-1120	*	6		UiCW	A1A		MR 5BL. Days 14, 24, 30
SRAL	14110	0855-1250	11	6		UiPTR	F1B		
SRAL	14116	0530-1630	*	6		UiPTR	F1B	250	Days 11, 12, 13
SRAL	14120	0910-1010	14	6		UiMUX	J7D		
SRAL	14122	0650-1100	*	6		UiMUX	J7D		Days 7, 13, 20
SRAL	14236	0920	8	6		UiMUX	J7D		
SRAL	14240	0830-0930	8	6		UiPTR	F1B		
SRAL	14240	1210	8	6		UiMUX	J7D		
SRAL	14262	0855-1110	14	6		UiCW	A1A		MR 5BL
SRAL	14295	1300-1700	30	6	IRN?	UiBC	A3E		
SRAL	18075	1110-1330	14	6	CYP	UiOTH	P0N		
SRAL	28035-28935	1000-1330	*	6	RUS	UiVOX	F3E		4 days, 32 reports

USKA – Switzerland – HB9CET (Peter)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
USKA	7000.0	2136	04	06			J3E-U			unid language (weak)
USKA	7000.0	1036	20	06			J7D	12x120		CIS 12 = AT3004D
USKA	7008.0	1336	11	06			F1B	50	250	unid
USKA	7010.0	1143	09	06	MKD	CS002	MFSK8	125	1750	MIL 188-141A, ALE daily
USKA	7010.0	1059	10	06		RS009	MFSK8	125	1750	MIL 188-141A, ALE daily
USKA	7020.0	1206	10	06	MKD	RS0017D	MFSK8	125	1750	MIL 188-141A, ALE daily
USKA	7020.0	1706	22	06		CS004A	MFSK8	125	1750	MIL 188-141A, ALE daily
USKA	7020.0	1732	22	06		RS0013D	MFSK8	125	1750	MIL 188-141A, ALE daily
USKA	7034.0	1945	04	06			F1B	75	250	unid
USKA	7038.7	1911	02	06	UKR	D	A1A			Beacon D Sevastopol daily
USKA	7038.9	1912	02	06	RUS	S	A1A			Beacon S Murmansk daily
USKA	7039.0	1914	02	06	RUS	C	A1A			Beacon C Moscow daily
USKA	7054.0	2144	10	06			F1B	50	200	unid daily
USKA	7093.0	1037	09	06			F1B	100	150	unid daily
USKA	7096.0	0841	01	06			F1B	100	150	unid
USKA	7100.0	1918	02	06			A3E			Broadcast daily
USKA	7110.0	1919	02	06			A3E			Broadcast daily
USKA	7122.0	1915	02	06			F1B	50	200	unid daily
USKA	7125.0	1943	02	06			A3E			Broadcast daily
USKA	7135.0	1636	04	06			A3E			Broadcast daily
USKA	7135.0	0821	10	06			F1B	81	250	unid

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
USKA	7137.0	2214	23	06			F1B	50	200	unid
USKA	7145.0	1635	04	06			A3E			Broadcast daily
USKA	7162.0	0959	08	06			F1B	75	250	unid
USKA	7165.0	1634	04	06			A3E			Broadcast daily
USKA	7165.0	1634	04	06			Jam			Jammer
USKA	7166.0	1924	02	06			A1A			Figures only daily
USKA	7169.0	0934	01	06			F1B	75	250	unid
USKA	7170.0	1251	14	06			F1B	75	200	unid
USKA	7175.0	1921	02	06			A3E			Broadcast daily
USKA	7185.0	1632	04	06			A3E			Broadcast daily
USKA	7185.0	1436	11	06			J7D	12x120		PSK2: CIS 12 = AT3004D
USKA	7185.5	0832	10	06			F1B	100	150	unid
USKA	7200.0	1922	02	06			A3E			Broadcast daily
USKA	10138.0	1833	30	06			P0N	50pps		OTHR from 10137 khz up
USKA	14000.0	0838	01	06			J3E-U			unid language (weak)
USKA	14001.8	1227	09	06			F1B	100	150	unid
USKA	14002.0	0835	01	06			F1B	100	200	unid
USKA	14026.0	0925	01	06			J7D	12x120		CIS 12 = AT3004D
USKA	14026.0	0851	24	06			J7D	12x120		PSK2: CIS 12 = AT3004D
USKA	14086.0	0828	01	06			F1B	75	500	unid
USKA	14104.0	0824	08	06			F1B	40.5	250	unid
USKA	14110.0	0838	10	06			F1B	75	250	unid
USKA	14116.0	1324	11	06			F1B	50	250	unid
USKA	14122.0	1023	09	06			J7D	12x120		PSK2: CIS 12 = AT3004D
USKA	14160.0	1024	09	06			F1B	50	250	unid
USKA	14192.0	1757	04	06			F1B	50	500	unid
USKA	14192.0	1817	30	06			F1B	50	200	unid
USKA	14221.0	1924	02	06			F1B	50	250	unid almost daily
USKA	14240.0	0919	01	06			J7D	12x120		CIS 12 = AT3004D
USKA	14240.0	0827	30	06			F1B	75	250	unid
USKA	14242.0	0919	01	06			J7D	12x120		PSK2: CIS 12 = AT3004D
USKA	14334.0	0839	01	06			J7D	12x120		PSK2: CIS 12 = AT3004D
USKA	14336.0	0849	10	06			F1B	100	250	unid
USKA	14338.0	0921	01	06			F1B	75	500	unid
USKA	14340.0	1524	22	06			J7D	12x120		CIS 12 = AT3004D
USKA	28068.3	1941	04	06		RE	A1A			Fishery buoy
USKA	28101.1	0950	08	06		AF	A1A			Fishery buoy
USKA	28161.5	1939	04	06		DU	A1A			Fishery buoy
USKA	28162.0	1937	04	06		A	A1A			Fishery buoy
USKA	28201.4	0927	08	06		MA	A1A			Fishery buoy
USKA	28201.4	0935	08	06		DU	A1A			Fishery buoy
USKA	28206.4	0934	08	06		DL	A1A			Fishery buoy
USKA	28239.5	1936	04	06		FE	A1A			Fishery buoy
USKA	28301.5	0938	08	06		DU	A1A			Fishery buoy
USKA	28325.0	1203	09	06			F3E			unid language
USKA	28351.4	0946	08	06		BP	A1A			Fishery buoy

Veron – Netherlands – PA0GRU (Dick)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
VERON	3608,0	19.50	6	6		UiPTR	F1B			Revs
VERON	7002,0	19.13	20	6		UiCW	A1A			dots, S-8
VERON	7008,0	06.28	vd	6	RUS	UiPTR	F1B		250	20.34 utc, Ptr, 3 days
VERON	7019,0	08.58	2	6	RUS	RAL2	A1A			qso RKA2: proc
VERON	7019,0	08.59	2	6	RUS	RKA2	A1A			qso RAL2: proc
VERON	7019,0	06.06	6	6	RUS	RAL2	A1A			qso RLO2, RKA2, RBL70, proc
VERON	7019,0	06.07	6	6	RUS	RLO2	A1A			qso RAL2: proc
VERON	7019,0	06.07	6	6	RUS	RBL70	A1A			qso RAL2: proc
VERON	7019,0	20.42	18	6	RUS	RAL2	A1A			qso RBL71, RBL672, RBL66: proc
VERON	7019,0	20.44	18	6	RUS	RBL672	A1A			qso RAL2: proc
VERON	7019,0	20.48	18	6	RUS	RBL66	A1A			qso RAL2: proc
VERON	7019,0	21.06	24	6	RUS	RAL2	A1A			qso RIB2, RMW2,

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
										RHQ2,RBL66, RBL672
VERON	7019,0	21.06	24	6	RUS	RIB2	A1A			qso RAL2: proc
VERON	7019,0	21.07	24	6	RUS	RMW2	A1A			qso RAL2: proc
VERON	7019,0	21.08	24	6	RUS	RHQ2	A1A			qso RAL2: proc
VERON	7019,0	21.08	24	6	RUS	RBL66	A1A			qso RAL2: proc
VERON	7019,0	21.09	24	6	RUS	RBL672	A1A			qso RAL2: proc
VERON	7025,0	14.15	4	6	CIS	UiPTR	F1B		250	Ptr, Revs
VERON	7025,0	06.32	12	6	CIS	UiPTR	F1B		250	Ptr
VERON	7036,3	19.49	vd	6		UiMUX	J7D			MPSK, 2 days, 20.40 utc
VERON	7038,7	vt	vd	6	UKR	D	A1A			D-beacon
VERON	7038,7	05.05	vd	6	UKR	D	A1A			16.57 utc, 13 days, beacon
VERON	7038,9	vt	vd	6	RUS	S	A1A			S-beacon
VERON	7038,9	05.05	vd	6	RUS	S	A1A			20.19 utc, 13 days, beacon
VERON	7039,0	vt	vd	6	RUS	C	A1A			C-beacon
VERON	7039,0	05.05	vd	6	RUS	C	A1A			20.19 utc, 11 days, beacon
VERON	7054,0	vt	vd	6		UiPTR	F1B			Revs
VERON	7054,0	19.24	24	6	RUS	UiPTR	F1B		200	Ptr+Revs
VERON	7054,0	06.46	vd	6	RUS	UiPTR	F1B		250	20.28 utc, Revs, 2 days
VERON	7079,0	19.20	24	6		UiMUX	J7D			12 MPSK
VERON	7086,5	19.44	18	6		UiPTR	F1B		250	slow revs
VERON	7093,0	06.21	17	6	CIS	UiPTR	F1B		250	Ptr
VERON	7099,0	14.01	4	6	CIS	GIOW	A1A			4F
VERON	7099,0	06.17	9	6	CIS	SGAI	A1A			proc, 5BL
VERON	7099,0	08.00	10	6	CIS	EGAI	A1A			proc, Q/Z-codes, 5BL
VERON	7099,0	15.38	17	6	CIS	5BZ3	A1A			proc
VERON	7130,0	15.10	5	6	CHN?	UiBC	A3E			mix of music-speech, jammer? Till 16.00
VERON	7166,0	vt	vd	6		UiCW	A1A			Strings of figures
VERON	7175,0	19.15	24	6		UiBC	A3E			music+speech, Far Eastern music
VERON	7185,0	15.12	5	6	CHN?	UiBC	A3E			mix of music-speech, jammer? Till 16.00
VERON	10108,0	08.58	8	6	RUS	RDL	F1A			UUU RDL = 93685 20590 k
VERON	10108,0	vt	vd	6	RUS	RDL	F1B			UUU XXX Revs/Ptr
VERON	10120,0	08.44	10	6	RUS		A3E			5 figure groups in Russian language
VERON	10130,0	vt	vd	6		UiPTR	F1B			Ptr
VERON	10133,0	19.20	24	6		UiCW	A1A			5L
VERON	10143,0	07.47	8	6		UiPTR	F1B			Revs/Ptr
VERON	10144,0	08.35	8	6		UiPTR	F1B			Revs
VERON	14008,0	08.25	25	6	CIS	UiPTR	F1B			Carrier/Revs/Ptr
VERON	14072,0	07.20	3	6		UiMUX	J7D			MPSK
VERON	14086,0	08.19	1	6		UiPTR	F1B			Ptr
VERON	14104,0	07.44	8	6		UiPTR	F1B			Ptr
VERON	14108,0	07.08	10	6	CIS	DAFD	A1A			to 1TKI, QBE QYT6 / QYT9
VERON	14108,0	07.13	10	6	CIS	HJLG	A1A			to 1TKI, 5BL
VERON	14108,0	09.22	11	6	CIS	5AQE	A1A			to S1DL, V97C: proc
VERON	14108,0	09.27	11	6	CIS	5AQE	A1A			to IEAT: 5BL
VERON	14108,0	07.08	13	6	CIS	S4V7	A1A			to V97C, ZTT ZWD ZOI QYT6 K
VERON	14108,0	07.14	17	6	CIS	5AQE	A1A			to GRNG: proc, 5BL
VERON	14108,0	06.30	18	6	CIS	5AQE	A1A			to IEAT, GRNG, AULC, P7ZK,
VERON	14108,0	09.11	22	6	CIS	LWSA	A1A			to PRN1: 5BL, proc
VERON	14108,0	09.20	24	6	CIS	LWSA	A1A			to H6IK, 1VYE, PRN1: proc
VERON	14108,0	07.08	25	6	CIS	WEGI	A1A			XXX WEGI 48743 WIOLARIT 7146 8426
VERON	14108,0	05.26	26	6	CIS	UiCW	A1A			5BL Ends 351 AR
VERON	14108,0	05.37	26	6	CIS	IVH9	A1A			to HAT5: ZKC ZUY ZON QYT 6 K
VERON	14108,0	06.42	27	6	CIS	LWSA	A1A			to 1YWH: proc
VERON	14108,0	06.24	23	6	CIS	LWSA	A1A			to H6IK, 1YWH: proc
VERON	14110,0	08.28	10	6		UiPTR	F1B			Ptr
VERON	14116,0	10.47	9	6		UiPTR	F1B			Ptr

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
VERON	14118,0	06.37	18	6	CIS	TPJ3	A1A			to HDX6, QTC, 02034 18 1035 ZCF 343=
VERON	14118,0	06.43	27	6	CIS	VJPG	A1A			to 3JYD: QTC 766 34 27 1040 766=ZWB
VERON	14120,0	08.20	17	6		UiMUX	J7D			12 MPSK
VERON	14120,0	09.18	26	6		UiMUX	J7D			12 MPSK, also 29/6 09.41 utc
VERON	14122,0	08.11	3	6		UiMUX	J7D			8 MPSK
VERON	14160,0	10.44	9	6		UiPTR	F1B			Ptr
VERON	14161,0	08.35	5	6		UiMUX	J7D			12 MPSK
VERON	14186,0	08.08	3	6		UiMUX	J7D			12 MPSK
VERON	14192,0	vt	vd	6		UiPTR	F1B			Revs
VERON	14192,0	07.19	10	6	CIS	UiPTR	F1B		500	Revs
VERON	14221,0	19.47	6	6		UiPTR	F1B			Revs
VERON	14237,0	08.38	5	6		UiMUX	G7B			frequency hopper
VERON	14240,0	vt	vd	6		UiPTR	F1B			Ptr
VERON	14252,0	08.27	25	6		UiPTR	F1B	75		Ptr (Baudot-ITA2)
VERON	14332,0	09.21	26	6	CIS	UiPTR	F1B		200	Ptr

IARUMS Region 1

Many thanks for your interest!

The monitoring team of IARU Region 1

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