



International Amateur Radio Union

Region 1



Monitoring System

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The monthly newsletter for Region 1

August 2009

The members of the IARUMS Region 1 Monitoring Team:



Acknowledgements

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++ 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 ++ 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) ++
++ DF8FE – Martin (Webmaster assistance) ++ DL8AAM (ALE) ++ DJ7KG (BUOYS) ++ DF5SX (BC) ++
++ 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

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.
The range from 100 kHz is 30 MHz is concerned from 05 – 22 UTC and later!**

2. **MIL printer on 14002 kHz**

I found a MIL printer (50 Bd, 850 Hz) on 14002 kHz for several days and informed the German PTT (BNetzA) in Konstanz. Bearings of the German PTT showed a small island, which belongs to the British territories. The German PTT informed the British PTT (Ofcom). Ofcom was able to help. On Aug. 13th the system disappeared. **Many thanks to the German and British PTTs, great action!**

3. **African pirate nets**

The African piratenet on 14000 kHz in USB was audible for few days, possibly a NGO or missionaries. Bearings showed Angola and Central Africa. Another pirate net appeared on 14002.1 USB every evening after 1800 UTC. QTE: 160 – 170° from Germany. They sometimes mentioned Maputo, Mozambique. The language was unknown.

4. **Good news! Radio China has left 5 frequencies on 7100 – 7200 kHz! - reported by DF5SX**

The Chinese authorities have made frequency adjustments midway during A09, affecting all transmissions which were previously operating in the new exclusive worldwide amateur radio service band 7100-7200 kHz. These regional services are affected:

Xizang Peoples' Broadcasting Service – Lhasa

Broadcasts on 7125 and 7170 have been moved to 7255 and 7450:
7255 (replacing 7125) Tibetan 2050-0200, 1000-1800
7450 (replacing 7170) Mandarin 2000-0300, 0900-1800

Xinjiang Peoples' Broadcasting Service - Urumqi

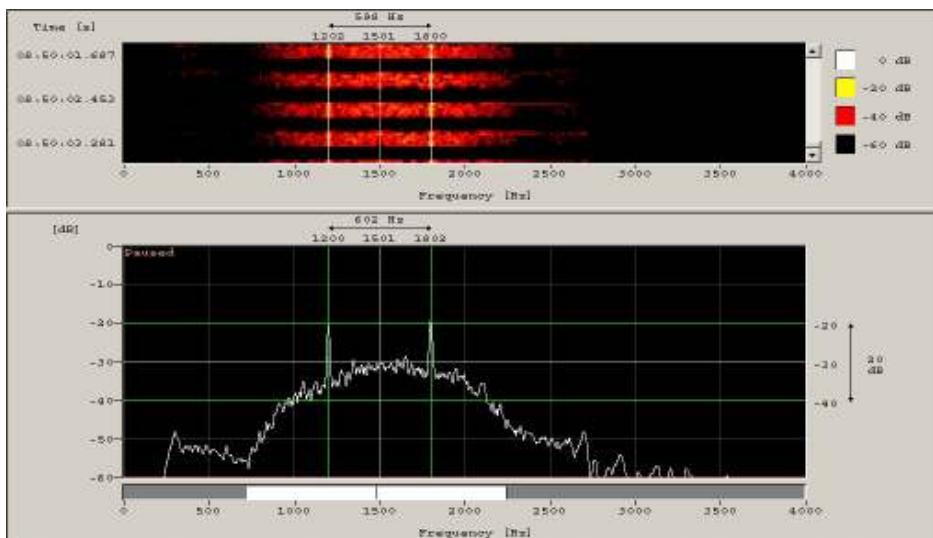
Broadcasts on 7120, 7155 and 7195 have been moved to 11975, 7230 and 7205:
11975 (replacing 7120) Kyrgyz 0330-0530 1030-1230
7230 (replacing 7155) Mongolian 2330-0330 1230-1800, Kyrgyz 0330-0530, 1210-1230 Kyrgyz
7205 (replacing 7195) Uighur 2330-0200, 1400-1800

5. **North Korean embassy on 14 MHz with DPRK-FSK600**

The North Korean embassy in Tripoli, Libya, was daily transmitting on 14328.430 kHz. Parameters: 600 Bd, 600 Hz shift, ARQ burst system. The traffic was in semi-duplex between Tripoli and Pyongyang, North Korea, daily at 1616 UTC. The German PTT was informed. **Observe the screenshot below!**

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

**DPRK-FSK600 – 600 Bd, 600 Hz shift, ARQ burst system on 14328.430 kHz
screenshot: DK2OM with Wavecom W61 (sonagram and spectrogram)**



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 AUGUST, 2009

Propagation conditions remained poor on 40 meters, and little monitoring was possible until late in the month, due to other commitments and serious power cuts. The Kampala and Hargeisha broadcast stations were not heard, but whether this was due to poor propagation, listening at the wrong time or that they have shut down is not known. One new net using Kiswahili on 7070 kHz LSB was heard, which might have been in Tanzania. Otherwise there were no unusually significant intruders.

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	8	ETH?	UiPHONE	J3E	Amharic. Spreads into 40 m. band.
ARSK	7008.0	0933	31	8	ZAI?	UiPHONE	J3Eu	French, vernacular.
ARSK	7009.0	0743	26	8	TZA?	UiPHONE	J3Eu	KiSwahili.
ARSK	7011.0	vt	*	8	SOM	UiPHONE	J3Eu	Somalis.*25,
ARSK	7024.0	0524	26	8	SDN	UiPHONE	J3Eu	English, phonetics, vernacular. NGO?
ARSK	7028.0	0741	26	8	SOM	UiPHONE	J3Eu	Somalis. SelCal.
ARSK	7030.0	0740	26	8	ZAI	UiPHONE	J3Eu	French, vernacular.
ARSK	7036.0	0928	31	8	SOM	UiPHONE	J3Eu	Somalis.
ARSK	7048.0	vt	dly	8	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	*	8	SOM	UiPHONE	J3Eu	Somalis.*25,
ARSK	7060.0	vt	*	8	ZAI	UiPHONE	J3Eu	French, vernacular. *25,26,
ARSK	7066.0	vt	*	8	SOM	UiPHONE	J3Eu	Somalis.*25,
ARSK	7070.0	0920	31	8	TZA?	UiPHONE	J3E	Kiswahili. No identification heard.
ARSK	7071.0	0737	26	8	SOM	UiPHONE	J3Eu	Somalis.
ARSK	7073.0	0525	26	8	SOM	UiPHONME	J3Eu	Somalis.
ARSK	7080.0	1450	31	8	SOM	UiPHONE	J3Eu	Somalis.
ARSK	7085.0	1100	25	8	SOM	UiPHONE	J3Eu	Somalis.
ARSK	7092.0	vt	*	8	SOM	UiPHONE	J3Eu	Somalis.*26,
ARSK	7096.0	0735	26	9	SOM	UiPHONE	J3Eu	Somalis.
ARSK	7110.0	vt	dly	8	ETH	Addis Ababa	A3E	Domestic broadcast, Addis Ababa, Ethiopia
ARSK	7165.0	vt	dly	8	ETH	Addis Ababa	A3E	External broadcast. Addis Ababa, Ethiopia.
ARSK	7175.0	vt	dly	8	ERI	VOBM, Asmara	A3E	Broadcast, Voice of The Broad Masses, Eritrea. (From 7100 kHz.)
ARSK	7200.0	vt	dly	8	SDN	Khartoum	A3E	Broadcast in Arabic, Khartoum.

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

CLUB	kHz	UTC	DD	MM	ITU	IDENT	MODE	REMARKS
DARC	3500,0	2018	04	08	E	UiILL	J3E-U	Spanish fishery, using Galician dialect
DARC	3500,0	1848	12	08	E	UiILL	J3E-U	Spanish fishery
DARC	3503,0	1943	27	08	N.Eu	UiILL	J3E-U	Scandinavian language, intruders
DARC	3510,0	vt	vd	08	E	UiILL	J3E-U	Spanish fishery using CRY-2001 vocoder to scramble the voice - heard 10 11 14 16 31 at 1900 - 2133
DARC	3515,0	0807	01	08	F	UiILL	J3E-U	French fishermen
DARC	3520,0	1855	23	08	F	UiILL	J3E-U	French fishery, engine noise
DARC	3520,0	1902	28	08	E	UiILL	J3E-U	Spanish fishery, using CRY-2001 vocoder
DARC	3532,0	2001	09	08	E	UiILL		Spanish fishery
DARC	3535,0	0616	18	08	F	UiILL	J3E-U	French fishermen, engine noise
DARC	3535,0	2120	18	08	POR	UiILL	J3E-U	Portuguese fishery
DARC	3535,0	1638	30	08	N.Eu	UiILL	J3E-U	Scandinavian language, intruders
DARC	3535,0	vt	vd	08	G	UiILL	J3E-U	UK fishery, very obscene to hams, heard 14 15 16 17 at 1930 - 1940
DARC	3535,0	vt	vd	08	G	UiILL		UK fishery, heard 08 - 18, 1900 - 1940
DARC	3540,0	2003	24	08	E	UiILL	J3E-U	Spanish fishery
DARC	3545,0	1900	10	08	N.Eu	UiILL		Scandinavian intruders
DARC	3546,0	2011	12	08	G	UiILL	J3E-U	UK fishery
DARC	3550,0	0556	07	08	F	French Lis Amateur s	A3E	using AM in CW section! - daily
DARC	3560,0	1850	08	08	N.Eu	UiILL		male persons in Scaninavian language
DARC	3560,0	2214	22	08	N.Eu	UiILL	J3E-U	Scandinavian intruders
DARC	3570,0	1840	12	08	RUS	UiILL	J3E-U	Russian voice, male and female person
DARC	3570,0	1945	18	08	E	UiILL	J3E-U	Spanish fishery using vocoder CRY-2001- to 3572 "after action"
DARC	3572,0	2025	18	08	E	UiILL	J3E-U	Spanish fishery using vocoder CRY-2001- from 3570 "after action"
DARC	3574,0	1449	01	08	E	UiILL	J3E-U	Spanish fishery, often using CRY-2001 vocoder to scramble the voice
DARC	3574,4	1829	31	08	RUS	UiILL	J3E-U	Russian voice, figure spelling
DARC	3575,0	2011	05	08	G	UiILL	J3E-U	UK pirates, possibly fishery, Opess Catherine and a male person
DARC	3583,0	0741	20	08	N.Eu	UiILL	J3E-U	Scandinavian intruders, male net
DARC	3585,0	vt	vd	08	HOL	UiILL	J3E-U	Dutch fishery, heard 11 12 at 1928 both days
DARC	3590,0	1830	27	08		7KS	J3E-U	female voice in English: "Radio Check" and "7KS"
DARC	3590,0	vt	vd	08	E	UiILL	J3E-U	Spanish fishery (one OP is "Manuel"), often using CRY-2001 vocoder to scramble the voice, heard 03 - 24 (= 21 reports) 0650, 1720, 1920-1948
DARC	3595,0	2101	03	08	UKR	UiILL	J3E-U	Ukrainian MIL
DARC	3595,0	vt	vd	08	HRV	UiILL	J3E-U	net in Croatian voice, male persons, heard 05 15 at 1932, 1942
DARC	6998,0	0851	05	08	F	UiILL	J3E-U	French pirates, splattering UP
DARC	7000,0	1918	06	08	E	UiILL	J3E-U	Spanish fishery using CRY-2001 vocoder to scramble the voice - after interfering by ham: "tenemos problemas" :-(((
DARC	7000,0	1103	16	08	E	UiILL	J3E-U	Spanish fishery
DARC	7000,0	1320	16	08	POR	UiILL	J3E-U	Portuguese fishery, off the coast of Terceira Island
DARC	7000,0	1906	26	08	I	UiILL	J3E	Italian pirates, using SSB-USB and/or SSB-LSB, male to female, no calls "su frequenza libera"
DARC	10101,0	1541	28	08	MRC	UiILL	J3E-U	2 Moroccan fishermen
DARC	10115,0	1919	14	08	E	UiILL	J3E-U	Spanish fishery, male to female
DARC	10115,2	vt	20	08	E	UiILL	J3E-U	2 male persons in Galician dialect, heard 0728 - 0740
DARC	10115,3	vt	14	08	E	UiILL	J3E-U	Spanish fishery, Galician (west Spanish) dialect talking about Moroccan ships, heard 0738 - 0755
DARC	10119,0	1457	22	08	F.Ea	UiILL	J3E-U	Far East pirates
DARC	10122,5	vt	21	08	G	UiILL	J3E-U	3 male persons in UK dialect / language - heard

CLUB	kHz	UTC	DD	MM	ITU	IDENT	MODE	REMARKS
								0923 - 0926
DARC	10130,0	0958	17	08	F	F6CHT	J3E-U	French lis amateurs with F6CHT OP Joel, not respecting IARU BANDPLAN
DARC	10131,0	0942	14	08	F	F6FVD	J3E-U	French lis amateurs with F6CHT OP Jean-Claude, not respecting IARU BANDPLAN
DARC	10132,0	0945	03	08	F	French Lis Amateurs	J3E-U	French lis amateurs not respecting IARU BANDPLAN
DARC	10132,5	0612	12	08		UiILL	J3E-U	unid male voices, no amateurs
DARC	10133,0	1000	27	08	F	French Lis Amateurs	J3E-U	French lis amateurs not respecting IARU BANDPLAN
DARC	10133,8	vt	13	08	G	G3NX S	J3E-U	OP Fred - heard 0900 - 0905 - not conform to IARU BANDPLAN: No SSB in Band 10
DARC	10133,8	vt	13	08	F	F5VBU	J3E-U	OP Malcolm (ex G3UIN) - heard 0900 - 0905 - not conform to IARU BANDPLAN: No SSB in Band 10
DARC	10133,9	vt	12	08	F	F5AC	J3E-U	OP Anatole - heard 0937 - 0948 - not conform to IARU BANDPLAN: No SSB in Band 10
DARC	10133,9	vt	12	08	F	F3EA	J3E-U	OP André - heard 0937 - 0948 - not conform to IARU BANDPLAN: No SSB in Band 10
DARC	10133,9	vt	12	08	F	I4/F4C JY/mm	J3E-U	OP Arnaud - heard 0937 - 0948 - not conform to IARU BANDPLAN: No SSB in Band 10
DARC	10133,9	vt	12	08	F	F6DCN	J3E-U	OP Hervé - heard 0937 - 0948 - not conform to IARU BANDPLAN: No SSB in Band 10
DARC	10133,9	vt	12	08	F	F2JA	J3E-U	OP Jacques - heard 0937 - 0948 - not conform to IARU BANDPLAN: No SSB in Band 10
DARC	10133,9	vt	12	08	F	F4EFG /p	J3E-U	OP Norbert - heard 0937 - 0948 - not conform to IARU BANDPLAN: No SSB in Band 10
DARC	10133,9	vt	12	08	F	F6DLX /p	J3E-U	OP Régis - heard 0937 - 0948 - not conform to IARU BANDPLAN: No SSB in Band 10
DARC	10133,9	vt	14	08	F	F6DCN	J3E-U	OP Hervé - heard 0932 - 0946 - not conform to IARU BANDPLAN: No SSB in Band 10
DARC	10133,9	vt	14	08	F	F8BGG	J3E-U	OP Michel - heard 0932 - 0946 - not conform to IARU BANDPLAN: No SSB in Band 10
DARC	10133,9	vt	14	08	F	F1GQ W	J3E-U	OP Marcel - heard 0932 - 0946 - not conform to IARU BANDPLAN: No SSB in Band 10
DARC	10133,9	vt	14	08	F	F5AC	J3E-U	OP Anatole - heard 0932 - 0946 - not conform to IARU BANDPLAN: No SSB in Band 10
DARC	10133,9	vt	14	08	F	F6HSJ/p	J3E-U	OP Patrick - heard 0932 - 0946 - not conform to IARU BANDPLAN: No SSB in Band 10
DARC	10134,0	vt	vd	08	F	F6DCN	J3E-U	around stn F6DCN OP Hervé, meeting daily 0930 - not respecting IARU BANDPLAN as NO SSB in Band 10
DARC	10135,0	1000	20	08	F	French Lis Amateurs	J3E-U	French lis amateurs not respecting IARU BANDPLAN
DARC	10135,0	0744	30	08		UiILL	F3E	unid male voices, FM used!
DARC	10136,0	0950	06	08	F	French Lis Amateurs	J3E-U	French lis amateurs not respecting IARU BANDPLAN
DARC	10136,0	0930	27	08	F	F6DCN	J3E-U	French lis amateurs with F6DCN, OP Hervé
DARC	10138,0	0936	27	08	F	F6DCN	J3E-U	French lis amateurs with F6DCN, OP Hervé
DARC	10141,7	0858	13	08	I	UiILL	J3E-U	Italian male net
DARC	10141,7	vt	16	08	E	UiILL	J3E-U	2 male persons in Spanish, "barco" and "puerto" often mentioned - heard 0707 - 0717/
DARC	10149,9	vt	16	08	E	UiILL	J3E-U	Spanish male person, heard 0817 - 0827
DARC	10150,0	1856	06	08		UiILL	J3E-U	net in Arabic male voice
DARC	10150,0	0904	26	08	E	UiILL	J3E-U	2 Spanish male persons
DARC	10150,0	vt	vd	08	E	UiILL	J3E-U	Spanish fishery, heard 21 and 23 at 0947, 2136, 1005

CLUB	kHz	UTC	DD	MM	ITU	IDENT	MODE	REMARKS	
DARC	14000,0	0717	13	08	INS	UiILL	J3E-U	Indonesian pirates, singing	
DARC	14000,0	0827	15	08		UiILL	J3E-U	male voices	
DARC	14000,0	1554	24	08	ISR	Mossad EZI2	A3E	female synthetic voice, is Mossad	
DARC	14000,0	1310	29	08	ISR	Mossad	A3E	female synthetic voice, encrypted messages, is Mossad	
DARC	14000,0	1824	29	08	ISR	Mossad YHF2	A3E	female synthetic voice, encrypted messages, is Mossad	
DARC	14000,0	vt	vd	08	Af	UiILL	J3E-U	net in Tribal African and French language, daily at vt: 0628, 0920, 1024, 1750,1825, 2040, 2100 - 15 reports all month	
DARC	14000,0	vt	vd	08	MRC	UiILL	J3E-U	Moroccan fishery, heard 05 06 at 0902, 1845	
DARC	14001,3	0957	25	08	S.As	UiILL	J3E-U	fishery possibly from Sri Lanka	
DARC	14002,0	0858	20	08		UiILL	J3E-U	unid male voices, QTE 190 degs.	
DARC	14002,2	vt	vd	08	Af	UiILL	J3E-U	African pirate net, "Maputo" mentioned, heard 21 - 29 at 0739, 1600, 1731, 1820, 2000 - 9 reports	
DARC	14002,5	1520	13	08	S.As	UiILL	J3E-L	fishery possibly from Sri Lanka	
DARC	14050,0	vt	13	08	RUS	495- 00000	A3E	Ru female synthetic voice repeating "cetiriye devet pyat (3x) nol nol nol nol nol" - report DL3RTL	
DARC	14056,0	1837	24	08	KOR	UiILL	J3E-U	South Korean ships	
DARC	14100,0	2014	05	08	I	UiILL	J3E-U	Italian male net, only using names, no calls!	
DARC	14101,2	1550	15	08	N.Af	UiILL	J3E-U	2 male persons in Arabic, no hams	
DARC	21117,0	1840	20	08		UiILL	J3E-U	unid male persons, QTE 190 degs.	
DARC	28000,0	vt	vd	08	CIS	UiILL	F3E	taxi cab business and gas supply - 28000 - 29700	
DARC	28085,0	0912	27	08	E	UiILL	A3E	Spanish CB-ers, large net	
DARC	28125,0	0837	14	08	E	UiILL	A3E	Spanish CB-ers	
DARC	28125,0	0852	28	08	E	UiILL	A3E	Spanish CB-ers	
DARC	28145,0	0830	27	08	E	UiILL	A3E	Spanish CB-ers, large net	

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

PSE observe:

FSK transmissions -> center frequency between mark and space

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

ALE (MIL188-141A) -> USB frequency

CLUB	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	REMARKS AND COMMENTS
DARC	1812,6	1829	01	08	POL	Polish Pip	A3E			10 tones, location Northern Polish coast, ady, dly, legal
DARC	3504,0	1842	31	08		UiMUX	G7B			frequency hopper
DARC	3518,8	2055	14	08		UiMUX	G7D			Link-11, slew
DARC	3520,5	1852	10	08	POL	UiPTR	F1B	100	150	unid printer system T219, location South of Warsaw
DARC	3527,0	2200	22	08	RUS	UiPTR	F1B	50	200	unid printer, location Vladivostok
DARC	3531,0	2000	10	08	LTU	UiMUX	QPSK	25	25	location West of Vilnius, coastal area to Baltic Sea
DARC	3550,0	0556	07	08	F	French Lis Amateurs	A3E			French lis Amateurs, daily - no respect of IARU Band Plan
DARC	3550,0	2207	28	08	RUS	Russian OTH Radar?	P0N			location Caucasus, system 100 pps, abt 5 kHz spread
DARC	3550,7	1855	12	08	ISR	UiMUX	8PSK	2400		MIL 188-110A, hybrid modem - is ISR MIL
DARC	3553,8	1833	01	08	TUR	UiMUX	G7D	2400		Stanag-4285, 2k4, 8PSK, is TUR MIL, location West Turkey
DARC	3555,8	1831	31	08	RUS	UiPTR	F1B	150	150	unid printer, Samara
DARC	3560,1	1851	07	08	KRE	Voice of Korea	A3E			daily

CLUB	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	REMARKS AND COMMENTS
						(North)				
DARC	3562,0	1900	08	08		UiMUX	G7B			frequency hopper
DARC	3567,0	1956	19	08	RUS	beacon P	F2A			beacon Kaliningrad, mode: F2A
DARC	3585,0	2000	12	08	TWN	HLL Taiwan	F1C			wx-fax, 120 rpm, IOC576 - is HLL Taiwan, is legal!
DARC	3588,0	2140	21	08	BLR	UiMUX	J7D	120	2600	MPSK-12, AT-3004-D, location North Belarus
DARC	3591,0	2001	04	08		UiMUX	G7B			frequency hopper
DARC	3591,0	vt	dly	08	HRV	9A1CRA	FSK8			MIL-188-141A, ARQ-FAE - is Croatian Emergency Net - just info!
DARC	3595,0	vt	dly	08	D	UiMUX	FSK8	125	1750	ALE, selcalls ZPRI and ZLST – German customs
DARC	3596,0	2200	20	08	N.Eu	UiMUX	J7D	120	260	MPSK-12, AT-3004-D, is on a ship on North East Baltic Sea
DARC	3596,0	2142	21	08	POL	UiMUX	J7D	120	2600	MPSK-12, AT-3004-D, location North of Warsaw
DARC	3609,0	vt	vd	08	RUS	UiPTR	F1B	100	200	unid printer, location area of St. Petersburg
DARC	3729,0	1911	23	08	RUS	UiMUX	J7D	120	2600	MPSK-12, AT-3004-D, location Kaliningrad
DARC	3738,0	vt	vd	08	BLR	UiPTR	F1B	50	250	unid printer location North of Minsk, heard 11 13 at 1958, 1949
DARC	3782,0	2045	01	08	POR	CTP	F1B	75	850	POR Navy HQ Lisbon, ady, dly
DARC	5194,8	1946	16	08		UiMUX	G7D			Stanag-4285, 2k4, 8PSK - is disturbing DRA5
DARC	7000,0	1903	04	08		UiMUX	G7B			frequency hopper, vt, daily
DARC	7000,0	0607	12	08		UiMUX	XXX			rushing noise
DARC	7000,0	vt	dly	08	IRQ	UiMUX	FSK8	125	1750	ALE, selcalls T1710 and T17137 - is USAF Iraq
DARC	7000,0	vt	dly	08	M.Ea	UiMUX	FSK8	125	1750	ALE, selcalls LBOTO and SHDTC - is USAF Middle East
DARC	7000,0	vt	vd	08	IRS	Israeli Navy	J7D	2400		MIL 188-110A, hybri, 2k4 Bd, heard 01 02 03 at 1802 - 2001
DARC	7000,0	vt	vd	08	KAZ	UiMUX	J7D	120	2600	MPSK-12, AT-3004-D, area of Kazakhstan - heard 07 12 at 1827, 0630, 1215
DARC	7000,5	0904	26	08		UiCAR	N0N			long lasting carrier
DARC	7001,0	vt	15	08	ARS	UiCAR	N0N			long lasting carrier, heard 15 17 at 1912, 0640
DARC	7001,0	vt	vd	08	RUS	UiCAR	N0N			long lasting carrier location St. Petersburg - heard 05 06 at 0834, 0720
DARC	7003,0	0811	23	08		UiMUX	G7B			frequency hopper
DARC	7005,0	0816	18	08	RUS	UiMUX	J7D	120	2600	MPSK-12, AT-3004-D, location Moscow
DARC	7008,0	0722	16	08		UiPTR	F1B			unid printer
DARC	7008,0	vt	vd	08	RUS	UiPTR	F1B	75	250	unid printer, location Novgorod, heard 16 25 at 0800, 1215
DARC	7009,0	2142	25	08		UiBC	A3E			BC-IM, male announcer, music - report DL4SXB
DARC	7009,0	vt	vd	08	UKR	UiBC	A3E			BC heard 11 - 19 (= 9 reports), location UKR?
DARC	7010,0	0820	13	08	MAK	UiMUX	FSK8	125	2600	ALE, MIL-188-141A, 8 x 125 Bd, is Macedonian MIL
DARC	7010,0	1951	19	08		UiMUX	G7B			frequency hopper
DARC	7010,0	1232	20	08	RUS	UiMUX	J7D	120	2600	MPSK-12, AT-3004-D

CLUB	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	REMARKS AND COMMENTS
DARC	7011,8	0914	28	08		UiMUX	G7D	2400		MIL-188-110A, 2k4, 75 bps long
DARC	7013,0	0848	05	08	RUS	UiMUX	J7D	120	2600	MPSK-12, AT-3004-D
DARC	7016,0	1455	10	08	RUS	UiPTR	F1B	75	250	unid printer
DARC	7020,0	0722	16	08	BLR	UiPTR	F1B			unid printer
DARC	7020,0	0913	18	08	RUS	UiMUX	J7D	120	2600	MPSK-12, AT-3004-D, location Moscow
DARC	7020,0	0924	28	08	MKD	UiMUX	FSK8	125	1750	ALE, selcalls RS0013D and CS004A - is Macedonian MIL
DARC	7020,0	vt	vd	08	RUS	UiPTR	F1B	75	250	unid printer, location Kaliningrad, heard 20 25 at 0809, 1216
DARC	7022,0	0811	13	08	RUS	UiMUX	J7D	120	2600	MPSK-12, AT-3004-D
DARC	7025,0	0425	11	08		UiPTR	F1B			unid printer
DARC	7027,5	vt	vd	08	RUS	beacon V	A1A			beacon Nishniy Novgorod ?, heard 10 18 21 at 2145, 2010, 2335
DARC	7030,0	2116	15	08	BLR	Radio Belarus	A3E			BC-IM 7210 x 7390, female announcer - report DL4SXB
DARC	7030,0	1838	vd	08	BLR	Radio Belarus	A3E			BC-IM from 7210 x 7390, heard daily
DARC	7038,7	vt	vd	08	UKR	beacon D	A1A			Sevastopol, heard 01 12 15 at 0951, 0607, 0951
DARC	7038,9	vt	vd	08	RUS	beacon S	A1A			Murmansk, ady, dly (heard 0607, 0826, 0951, 1745, 2025)
DARC	7039,0	1837	01	08	RUS	beacon C	A1A			Moscow, ady, dly
DARC	7040,0	0953	01	08	I	IZ3DVW	A1A			by IARU not coordinated beacon, daily all day
DARC	7047,0	1949	04	08	S.Eu	UiMUX	J7D	120	2600	MPSK-12, T-30034-D, ship in Eastern Black Sea
DARC	7047,0	0849	05	08	RUS	UiMUX	J7D	120	2600	MPSK-12, AT-3004-D
DARC	7048,0	0631	12	08		UiMUX	G7B			frequency hopper
DARC	7054,0	vt	dly	08	RUS	UiPTR	F1B	50	200	printer located Moscow, heard all day at various times
DARC	7055,0	0955	01	08		UiMUX	G7B			frequency hopper
DARC	7055,5	1724	11	08	CHN	UiMUX	FSK8	125	2600	ALE, selcalls 135 and 107 - CHN-PRC-PLA
DARC	7062,0	1218	25	08	RUS	UiPTR	F1B	100	140	unid printer, Kaliningrad
DARC	7072,0	0722	16	08		UiPTR	F1B			unid printer
DARC	7072,0	0925	28	08	UKR	UiPTR	F1B	100	140	system T219, West of Kiev
DARC	7075,0	0556	27	08	RUS	UiMUX	J7D	120	2600	MPSK-12, AT-3004-D, Moscow
DARC	7080,5	0905	22	08	I	I1YRB / BEACON	A1A			Italian "Beaconomania"
DARC	7087,0	1219	25	08	RUS	UiPTR	F1B	41	250	system FROST-1 - 40,5 Bd, Moscow
DARC	7088,0	vt	vd	08	RUS	UiPTR	F1B	75	250	unid printer, location Arkhangelsk
DARC	7089,7	ady	vd	08	TUR	UiMUX	G7D			Link-11, slew - location area West of Turkey - heard 16 17 18 19 all day
DARC	7089,8	vt	02	08	UKR	Weather-FAX	F1C			weather fax 60 rpm, IOC576, location Sevastopol - heard 1238 - 1240 - 25 reports 02 - 24
DARC	7093,0	1330	21	08	UKR	UiPTR	F1B	100	140	unid printer, system T219, location Kiev
DARC	7093,0	1221	25	08	RUS	UiPTR	F1B	100	140	system T219, Moscow
DARC	7096,0	0556	27	08	RUS	UiMUX	J7D	120	2600	MPSK-12, AT-3004-D, Moscow
DARC	7098,0	1234	17	08	RUS	UiPTR	F1B	81	250	unid printer, location

CLUB	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	REMARKS AND COMMENTS
										Moscow
DARC	7100,0	1819	09	08	KRE	Voice of Korea (North)	A3E			heard daily, French px, S9-signal
DARC	7100,0	1913	18	08	KRE	Voice of Korea (North)	A3E			heard daily, English px, S8
DARC	7100,0	vd	dly	08	KRE	Voice of Korea (North)	A3E			heard daily 1800 - 2030
DARC	7105,0	1604	05	08		UiBC	A3E			music, low signal
DARC	7105,0	vd	vt	08	CHN	R. China Nei Menggu PBS	A3E			is active
DARC	7110,0	vt	dly	08	ETH	Radio Ethiopia	A3E			heard dly at 0550, 0616, 1538, 1844, 1913 (S9+10dB), 2008 (S9+10dB)
DARC	7115,0	2007	24	08		UiBC	A3E			music, laughter, S9
DARC	7115,0	vt	vd	08	CHN	Nei Menggu PBS	A3E			is active
DARC	7116,0	0807	26	08	RUS	UiPTR	F1B	75	200	unid printer, Kaliningrad
DARC	7116,0	0904	26	08		UiPTR	F1B			unid printer
DARC	7117,3	1856	01	08	CHN	UiMUX	QPSK	8x 75		PRC4+4, QPSK (traffic)
DARC	7120,0	2138	11	08	F.Ea	Ui OTH Radar	P0N			radar heard between 7020 and 7125 - 66,6 pps
DARC	7120,0	vt	vd	08	CHN	Xinjian PBS	A3E			Kyrgyz 0330 - 0530, 1030 - 1230 - has moved to 11975 - report DF5SX
DARC	7122,0	vt	vd	08	RUS	RDL	F1B	50	200	RUS Navy Kaliningrad - heard 14 17 at 1850, 1658, 1910
DARC	7125,0	vt	dly	08	GUI	Radio Conakry	A3E			heard 10 18 19 at 0719, 1645, 1913, signals S5 - S8, always weak modulation
DARC	7125,0	vt	vd	08	CHN	Xizang PBS	A3E			Tibetan 2050 - 0200, 1000 - 1800 - has moved to 7255 - report DF5SX
DARC	7130,0	1605	03	08	CHN	Xizang PBS	A3E			music, spoken voice, 2 tx-ers?, S4
DARC	7130,0	vt	03	08	MLA	RTM Sarawak	A3E			heard 1258 - 1320 - report John M. Wilkins, USA
DARC	7130,0	vt	04	08	MLA	RTM Sarawak	A3E			heard 1301 - 1412, 0008 - 0024 // 5030 - report Ron Howard, USA
DARC	7130,0	1606	05	08	CHN	Xizang PBS	A3E			music, male and female speaker, S8, 2 tx-ers?
DARC	7130,0	1756	06	08	CHN	Xizang PBS	A3E			music, 1800: ID, Chinese?
DARC	7130,0	vt	09	08	MLA	RTM Sarawak	A3E			heard 1245: Bahasa Indonesia, 1257: ID
DARC	7130,0	1538	10	08	CHN	CNR-1	A3E			Chinese px heard, found // 7185
DARC	7130,0	1644	10	08	CHN / TWN	CNR-1 / CBS	A3E			2 Chinese px heard, on is // 7185
DARC	7130,0	vt	11	08	TWN	R. Taipei International	A3E			1128: ann by woman in Japanese, 1130: mention of Taiwan. Carrier off 1200 - 1250 allowing reception of RTM Sarawak until 1250, 1300 back into Japanese - report Steven Wiseblood,

CLUB	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	REMARKS AND COMMENTS
										AB5GP
DARC	7130,0	vt	11	08	MLA	RTM Sarawak	A3E			1209: almost Middle Eastern type instrumental song, during absence of R. Taipei Intl. - report Steven Wiseblood, AB5GP
DARC	7135,0	1819	09	08	BLR	R. Belarus	N0N			carrier S7 1538, 1832 - program heard 1644, 2024 - always weak modulation
DARC	7135,0	vt	vd	08	BLR	R. Belarus	A3E			hear 23 26 at 1844 (weak mod. S8), 2008 carrier S8
DARC	7135,0	vt	vd	08	RUS	UiPTR	F1B	41	250	unid printer, system FROST-1, location Moscow, heard 21 15 at 0833, 0854
DARC	7136,5	vt	vd	08	UKR	UiPTR	F1B	100	140	system T219, heard 26 31 at 1603, 1536 - location south of Lvov
DARC	7139,5	0926	28	08	UKR	UiMUX	J7D	120	2600	MPSK-12, AT-3004-D, Lvov
DARC	7139,5	0926	28	08	UKR	UiMUX	J7D	120	2600	MPSK-12, AT-3004-D, Lvov
DARC	7140,0	1210	11	08	KRE	Voice of Korea (North)	A3E			1210: ann. by male person in Korean, good signal! - report Steven Wiseblood, AB5GP
DARC	7140,0	1913	18	08		UiBC	A3E			S4-signal
DARC	7140,0	1832	19	08	RUS	Voice of Russia	A3E			Russian px, S8 - location Yakutsk
DARC	7141,0	2130	01	08		UiMUX	FSK8	125	1750	ALE, secalls 7801, 780
DARC	7145,0	vt	13	08	LAO	Lao National Radio	A3E			heard 1255 - 1359 s/off, 0600 and 1600: En px - report Ron Howard, USA
DARC	7145,0	vt	vd	08	SOM	R. Hargeisa	A3E			heard 23 26 at 1844 (weak mod. S8), 2008 (weak mod. S9)
DARC	7150,0	vt	vd	08	CHN	R. China Huhhot	A3E			is active
DARC	7155,0	vt	vd	08	CHN	Xinjian PBS	A3E			Mongolian 2330 - 0330, 1230 - 1800 - Kyrgyz 0330 - 0530, 1210 - 1230 - has moved to 7230 - report DF5SX
DARC	7160,0	1753	07	08	RUS	UiMUX	J7D	120	1750	MPSK-12, AT-3004-D, location East Russia
DARC	7165,0	1610	03	08	E.Af	UiBC	A3E			heard daily 0719, 1600 - 1802 - is it R.Ethiopia or is it Voice of the Broad Masses?
DARC	7165,0	1644	10	08	ETH	ETH-JAM	A3E			rushing noise plus on VOBM, S9+10dB
DARC	7165,0	1644	10	08	ERI	Voice of Broad Masses	A3E			covered with rushing noise, S9+10dB
DARC	7165,0	1702	13	08	ETH	ETH-JAM	JAM			ETH Government Jammer on R. Eritrea
DARC	7165,0	1538	15	08	ETH	R. Ethiopia	A3E			S7-signal
DARC	7165,0	1601	18	08	E.Af	UiBC	A3E			music, female speaker, S3
DARC	7165,0	1640	18	08	E.Af	UiBC	A3E			S9+15dB
DARC	7165,0	1641	18	08	ETH	ETH-JAM	A3E			white noise jamming starts
DARC	7165,0	1812	19	08	E.Af	UiBC	A3E			music, female speaker, S4
DARC	7165,0	1832	19	08	E.Af	UiBC	A3E			HOA music, S9-signal
DARC	7165,0	vt	21	08	ETH	Voice of	A3E			heard 0356 - 0432, talk in

CLUB	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	REMARKS AND COMMENTS
						Peace and Democracy				listed Tigrinya, 0403 noise jammer, px MON-WED-FRI, found // 9560 - via R. Ethiopia - report Brian Alexander, PA, USA
DARC	7165,0	vt	vd	08	CHN	Radio China Nei Menggu PBS	A3E			is active
DARC	7165,0	vt	vd	08	ERI	Voice of the Broad Masses	A3E			Voice of Broad Masses, is active
DARC	7166,0	vt	dly	08	EST	UiCW	A1A			CW encrypted, "135T598...", Estonia, daily
DARC	7167,0	vt	dly	08		UiMUX	G7B			frequency hopper
DARC	7170,0	1643	18	08	ETH	ETH-JAM	JAM			white noise jamming on VOBM
DARC	7170,0	vt	vd	08	CHN	Xizang PBS	A3E			Mandarin 2000 - 0300, 0900 - 1800 - has moved to 7450 - report DF5SX
DARC	7175,0	1803	06	08	ERI	Voice of the Broad Masses	A3E			music, songs, S4
DARC	7175,0	1603	18	08	ETH	ETH-JAM	A3E			white noise jamming, 7173 - 7179
DARC	7175,0	vt	dly	08	ERI	Voice of Broad Masses	A3E			Ar px S9, heard 0622, 0719, 1832, 1913
DARC	7180,0	vt	vd	08	KRE	Voice of Korea (North)	A3E			is active
DARC	7185,0	1600	05	08	CHN	Radio China	A3E			voice, male speaker, music, Chinese, S8
DARC	7185,0	1538	10	08	CHN	CNR-1	A3E			Chinese px heard, found // 7130
DARC	7185,0	1644	10	08		CNR-1 / CBS	A3E			2 Chinese px heard, on is // 7130
DARC	7185,0	1538	15	08	CHN	CNR-1	A3E			Chinese px, found // 7130, S9-signal
DARC	7185,0	1640	18	08	CHN	CNR-1	A3E			no signal found
DARC	7185,0	vt	vd	08	BRM	Myanma Radio	A3E			notice: effective 1 April moved to 7200
DARC	7185,0	vt	vd	08	TWN	Sound of Hope	A3E			is active
DARC	7185,5	0834	21	08	RUS	UiPTR	F1B	100	140	unid printer, system "T219", location Moscow
DARC	7186,0	vt	vd	08	S	UiMUX	J7D	120	2600	MPSK-12, AT-3004-D, is a ship North of Stockholm - heard 17 30 31 at 0643, 0820, 0918
DARC	7190,0	0850	05	08	RUS	UiMUX	J7D	120	2600	MPSK-12, AT-3004-D
DARC	7190,0	vt	vd	08	CLN	SLBC Colombo	A3E			is active
DARC	7190,0	vt	vd	08	UZB	Radio Uzbekistan	A3E			is active
DARC	7195,0	vt	vd	08	CHN	Xinjian PBS	A3E			Uighur 2330 - 0200, 1400 - 1800 - has moved to 7205 - report DF5SX
DARC	7195,0	vt	vd	09	ERI	Voice of the Broad	A3E			Voice of Broad Masses, is active

CLUB	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	REMARKS AND COMMENTS
						Masses				
DARC	7197,0	vt	vd	08	S.Eu	UiMUX	J7D	120	2600	MPSK-12, AT-3004-D, ship in Black sea heard 05 06 at 1707, 1515
DARC	7198,0	vt	11	08	RUS	UiMUX	J7D	120	2600	MPSK-12, AT-3004-D, location Moscow, heard 0606 - 0616
DARC	7198,0	1010	19	08		UiMUX	G7B			frequency hopper
DARC	7199,0	0947	19	08	UKR	UiPTR	F1B	41	150	unid printer 40,5 Bd, system FROST-1, location Kiev
DARC	7199,0	0947	19	08	UKR	UiPTR	F1B	41	250	unid printer 40,5 Bd, system FROST-1, location Kiev
DARC	7200,0	1613	03	08		UiBC	A3E			splatters from 7205 daily 1600 - 1800
DARC	7200,0	2011	24	08		Voice of Russia	A3E			Russian px, song " 1000 x wodka", S9+
DARC	7200,0	vt	dly	08	SDN	Radio Omdurm an	A3E			Arabic px S9+10dB, heard dly at 0550 (carrier, s/on 0600), 1640, 1819, 1913
DARC	7200,0	vt	vd	08	SDN	Radio Omdurm an	A3E			heard 23 26 at 1844 (Arabic, S9+10dB), 2008 (HOA music, S9+10dB) * HOA means "Horn of Africa"
DARC	7200,0	vt	vd	08	IRN	IRIB	A3E			station Ahwaz, 1630 - 1730
DARC	7200,0	vt	vd	08	IRN	IRIB	A3E			station Kamalabad, 1830 - 1930
DARC	7200,0	vt	vd	08	RUS	Voice of Russia	A3E			station Yakutsk
DARC	7200,0	vt	vd	08	RUS	Voice of Russia	A3E			station Moscow
DARC	7200,0	vt	vd	08	BRM	R. Myanma	A3E			effective 1 April moved from 7185
DARC	7200,0	vt	vd	08	IND	AIR Kolkata	A3E			0230 - 0401, Sat/Sun: 0700 - 1000, Sun: 1030 - report José Jacob, VU2JOS
DARC	10100,8	h24	dly	08	D	DDH, DDK2, DDK9	F1B	50	450	German weather, legal
DARC	10107,9	vt	13	08		UiCAR	N0N			carrier lasting 0800 - 1415 - report DF1PH
DARC	10108,0	vt	vd	08	RUS	UiPTR	F1B	50	200	unid printer location Moscow - heard 10 18 22 at 0734, 1005, 1428
DARC	10109,0	1247	28	08		UiMUX	G7B			frequency hopper
DARC	10112,0	0813	01	08	TUR	UiMUX	G7D	2400		Stanag-4285, 2k4, 8PSK, is TUR MIL, location West Turkey
DARC	10114,0	1453	29	08		UiMUX	G7B			frequency hopper
DARC	10114,8	0557	dly	08	RUS	UiPTR	F1B	96	1000	CIS-14, Moscow
DARC	10115,0	2039	16	08		UiMUX	FSK8	125	2600	ALE, selcall 201
DARC	10116,8	1850	14	08	F	UiMUX	J7D	75		14 x 75 Bd, QPSK, 1 pilot tone - location Marseille, France - is French MIL
DARC	10117,0	1255	26	08	RUS	UiMUX	J7D	120	2600	MPSK-12, AT-3004-D, Moscow
DARC	10118,0	0707	17	08	RUS	UiPTR	F1B	75	250	unid printer, location Moscow
DARC	10119,0	1259	26	08	RUS	UiMUX	J7D	120	2600	MPSK-12, AT-3004-D, Kazan
DARC	10120,0	1852	26	08	G / CYP	British OTH-Radar	P0N			50 pps (50 Hz-system)

CLUB	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	REMARKS AND COMMENTS
						Cyprus				
DARC	10120,0	vt	vd	08	RUS	UiMUX	J7D	120	2600	MPSK-12, AT-3004-D, location Moscow, heard 03 04 at 0837 - 0947
DARC	10122,0	vt	vd	08	MKD	UiPTR	F1B	50	500	unid printer, heard 02 11 12 14 at 1102 - 1642 - location North of Skopje
DARC	10125,0	2105	02	08	LBY	UiMUX	FSK8	125	1750	ALE, selcalls BAIDA, HQ1, MOBILE16
DARC	10126,0	0836	03	08	RUS	UiMUX	J7D	120	2600	MPSK-12, AT-3004-D, location Murmansk
DARC	10126,0	1359	17	08	RUS	UiPTR	F1B	50	200	unid printer, location Vladivostok
DARC	10130,0	1843	01	08		UiMUX	FSK8	8 x 125		Thales Skymaster, 8 x 125 Bd, dly, vt
DARC	10130,0	2206	07	08	USA	UiPTR	F1B	50	850	printer located state of Maine, USA - daily
DARC	10130,0	1155	14	08		UiPTR	F1B	50	500	idling
DARC	10133,0	1908	25	08	RUS	UiMUX	J7D	120	2600	MPSK-12, AT-3004-D, location area of Moscow
DARC	10134,0	0918	22	08		UiMUX	G7B			frequency hopper
DARC	10136,0	vt	vd	08	RUS	UiPTR	F1B	50	250	unid printer, location Far East Russia nr. Vladivostok - heard 08 09 10 29 at 1545, 1739, 1737, 1712
DARC	10140,0	1919	28	08	G / CYP	British OTH-Radar Cyprus	P0N			50 pps (50 Hz-system)
DARC	10143,0	0944	03	08	RUS	UiPTR	F1B	75	250	unid printer, location North of Moscow
DARC	10143,0	0742	08	08	RUS	UiPTR	F1B	50	250	unid printer, location Kazan
DARC	10144,0	1915	25	08	RUS	UiPTR	F1B	50	200	unid printer, RUS MIL, N.Ea Russia
DARC	10145,0	0747	20	08		UiPTR	F1B			TOR
DARC	10145,0	0837	31	08	RUS	UiMUX	J7D	120	2600	MPSK-12, AT-3004-D, Moscow
DARC	14000,0	1216	01	08		UiMUX	G7B			frequency hopper, vt, daily
DARC	14000,0	1741	04	08	P0N	British OTH-Radar Cyprus	P0N			50 pps (50 Hz-system)
DARC	14000,0	1321	13	08		UiMUX	FSK8	125	1750	ALE, selcalls 161 and 163
DARC	14000,0	1115	18	08	USA	WNG777	FSK8	125	1750	ALE, selcall WNG777 - is US Government
DARC	14000,0	1554	24	08	ISR	EZ12	A3E			female voice spelling "Echo Zuli India Two", is Mossad
DARC	14000,0	1310	29	08	ISR	MOSSAD	A3E			female voice spelling encrypted messages, is Mossad
DARC	14000,0	1400	29	08	G / CYP	British OTH-Radar Cyprus	P0N			50 pps (50 Hz-system)
DARC	14000,0	1824	29	08	ISR	YHF	A3E			female voice spelling encrypted messages, is Mossad
DARC	14000,1	1844	31	08	ISR	UiCAR	N0N			carrier, is ISR navy?
DARC	14001,0	0846	11	08		UiPTR	F1B	50	175	unid printer
DARC	14002,0	vt	vd	08	G	UiPTR	F1B	50	850	unid printer heard 08 - 12 at 0605, 1215, 0637, 1118, 0633 - location Diego Garcia, Indian Ocean
DARC	14006,0	0839	18	08	RUS	UiMUX	J7D	120	2600	MPSK-12, AT-3004-D, location Moscow

CLUB	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	REMARKS AND COMMENTS
DARC	14008,0	1032	10	08	RUS	RDL / UMS	F1B			reversals, short texts
DARC	14008,0	vt	vd	08	RUS	UiPTR	F1B	50	250	unid printer, heard 24 27 at 0956, 1334, Kaliningrad
DARC	14008,0	vt	vd	08	LTU	UiPTR	F1B	50	250	unid printer, location area of Vilnius - heard 12 13 at 0634, 1254
DARC	14015,3	1056	10	08	RUS	KGAI, TUEC	A1A			"QTC 354 6 10 1607 = " into 4F tfc
DARC	14018,0	0830	06	08		UiMUX	G7B			frequency hopper
DARC	14020,0	0722	06	08		UiMUX	J7D	120	2600	MPSK-12, AT-3004-D
DARC	14025,3	0957	10	08	RUS	K6AI, TUEC	A1A			Russian MIL
DARC	14026,0	vt	vd	08	RUS	UiMUX	J7D	120	2600	MPSK-12, AT-3004-D, location Moscow - heard 12 13 at 08039, 1408
DARC	14028,0	0809	26	08	RUS	UiPTR	F1B	75	250	unid printer, Moscow
DARC	14052,0	1047	05	08	RUS	UiMUX	J7D	120	2600	MPSK-12, AT-3004-D, location St. Petersburg - report to KON
DARC	14057,0	1503	12	08	RUS	RMGO	A1A			is active
DARC	14060,0	1034	07	08	ISR	UiMUX	FSK8	125	1750	ALE, selcalls AAA and AA1 - is ISR Air Force
DARC	14061,0	0820	30	08		UiMUX	G7B			frequency hopper
DARC	14066,0	0958	03	08	RUS	UiMUX	J7D	120	2600	MPSK-12, AT-3004-D, locaiton area of Syktywkar
DARC	14067,0	1701	15	08		UiMUX	G7B			frequency hopper
DARC	14069,0	1457	12	08	RUS	RMGK	A1A			5f tfc, ending "RMGK"
DARC	14069,0	1503	12	08	RUS	RMGO	A1A			tfc between RMGK and RMGO
DARC	14077,0	0727	19	08	RUS	UiMUX	J7D	120	2600	MPSK-12, AT-3004-D, location Kaliningrad
DARC	14081,0	0811	10	08	RUS	UiPTR	F1B	75	250	unid printer, location Vladivostok
DARC	14105,0	1949	11	08		Ui Ocean Radar	P0N			unid ocean radar, 100 pps
DARC	14108,0	0823	29	08		UiCW "DKYA" "CKX9"	A1A			"dkya de ckx9"
DARC	14110,0	vt	vd	08	RUS	UiPTR	F1B	75	250	unid printer heard 11 12 13 17 18 at 0608 - 0858 - location is North of Bryansk
DARC	14116,0	0639	07	08	LTU	UiPTR	F1B	75	250	unid printer, location Vilnius
DARC	14116,0	1211	27	08	LTU	UiPTR	F1B	50	250	unid printer, location Vilnius
DARC	14117,0	1234	01	08		UiMUX	G7B			frequency hopper, vt, daily
DARC	14118,0	1235	01	08		5NAG, 9AME	A1A			encrypted CW, "5NAG", "9AME"
DARC	14118,0	1037	15	08	LVA	UiCW	A1A			encrypted CW from Latvia (LVA), dly, vt
DARC	14122,0	vt	vd	08	RUS	UiMUX	J7D	120	2600	MPSK-12, AT-3004-D, heard 12 - 31 (= 9 reports), heard 0705 - 1012, location West of Moscow
DARC	14129,0	0835	21	08		UiMUX	G7B			frequency hopper
DARC	14140,0	1533	13	08		UiBC	A3E			BC-IM
DARC	14141,0	0733	15	08	BLR	UiPTR	F1B	75	500	unid printer, location North of Minsk
DARC	14141,0	0819	18	08	RUS	UiCW	A1A			encrypted CW, location Moscow
DARC	14143,0	1555	15	08	LTU	UiMUX	J7D	120	2600	MPSK-12, AT-3004-D, location West of Vilnius

CLUB	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	REMARKS AND COMMENTS
DARC	14169,0	0835	24	08	RUS	UiPTR	F1B	50	200	unid printer, location Moscow
DARC	14184,0	1605	19	08		UiMUX	G7B			frequency hopper
DARC	14192,0	1009	16	08	RUS	UiPTR	F1B	50	500	unid printer, is RUS Navy Kaliningrad
DARC	14206,0	vt	vd	08	RUS	UiMUX	J7D	120	2600	MPSK-12, AT-3004-D, heard 25 26 at 0857, 0822, location North East Russia
DARC	14221,0	1300	04	08	RUS	UiPTR	F1B	50	200	unid printer, location Samara
DARC	14238,0	1039	15	08		UiMUX	G7B			frequency hopper
DARC	14238,5	1100	13	08	KRE / LBY	North Korean Embassy	F1B	600	600	DPRK-FSK600, daily
DARC	14280,0	0810	20	08	RUS	Russian OTH Radar	P0N			system ABM-2 "Steelyard", 50 pps
DARC	14295,0	0836	21	08	RUS	Russian OTH Radar	P0N			system ABM-2 "Steelyard", 50 pps
DARC	14295,1	vt	vd	08	TJK	R.Tajikistan	A3E			3f de 4765 kHz, heard 17 - 30 daily 0625 - 0744, also 1550 - 1710
DARC	14311,0	1448	24	08	RUS	O9VE, O7TS	A1A			CW traffic
DARC	14316,0	0811	20	08		UiMUX	G7D			Link-11, SLEW
DARC	14328,0	1705	06	08		UiMUX	G7B			frequency hopper
DARC	14328,4	vt	dly	08	LBY	North Korean Embassy Tripoli	F1B	600	600	DPRK-FSK600, daily at 1616 - 1630
DARC	14331,0	1305	18	08		LE3M	A1A			unid CW, ident "LE3M"
DARC	14333,0	0857	14	08		UiCW	F1A			unid morse, frequency shift keying
DARC	14345,0	1052	05	08	RUS	Russian OTH Radar	P0N			OTH Radar "Steelyard" (= ABM2), 50 pps
DARC	18149,0	0728	06	08		UiMUX	G7B			frequency hopper
DARC	18150,0	0725	06	08		UiPTR	F1B	100	2000	unid printer, harmonic from 9075 (there 100 Bd/1000 Hz)
DARC	18160,0	vt	vd	08	RUS	UiPTR	F1B	41	1000	40,5 Bd - system FROST heard 05 06 at 0925, 0926 - is harmonic from 9090
DARC	21000,0	1011	26	08	G / CYP	British OTH-Radar Cyprus	P0N			50 pps (50 Hz-system)
DARC	21125,4	1520	21	08	E	UiMUX	G7D	2400		Stanag-4285, 2k4, 8PSK, location near Madrid, Spain
DARC	21145,8	0815	01	08	I	IZ3DVW	A1A			Amateur Radio beacon - Italian Beaconomania!
DARC	21155,4	0840	06	08	I	IQ0LT	A1A			Amateur Radio beacon - Italian Beaconomania!
DARC	21400,0	1012	01	08	G / CYP	British OTH-Radar Cyprus	P0N			50 pps (50 Hz-system)
DARC	28000,0	1449	26	08		UiMUX	G7B			frequency hopper
DARC	28021,1	1002	03	08		UiCW	A1A			52 dots, then a long dash
DARC	28034,5	0712	03	08	S.Eu	F	A1A			fishnet buoy - report DL4SXB
DARC	28065,5	0707	03	08	S.Eu	DP	A1A			fishnet buoy - report DL4SXB
DARC	28125,0	0631	03	08	S.Eu	EI	A1A			fishnet buoy - report

CLUB	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	REMARKS AND COMMENTS
										DL4SXB
DARC	28125,0	0631	03	08	S.Eu	DK	A1A			fishnet buoy - report DL4SXB
DARC	28131,5	0647	03	08	S.Eu	DF	A1A			fishnet buoy - report DL4SXB
DARC	28131,5	0647	03	08	S.Eu	D	A1A			fishnet buoy - report DL4SXB
DARC	28145,5	0659	03	08	S.Eu	E	A1A			fishnet buoy - report DL4SXB
DARC	29684,8	1300	02	08	I	UiMUX	serial			serial modem, Italian MIL, location Brescia, ady, dly
DARC	29699,8	1300	02	08	I	UiMUX	serial			serial modem, Italian MIL, location Brescia, ady, dly

IRTS – Ireland – EI4GXB (Ger)

MRASZ – Hungary - HA7PL (Laci)

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	DETAILS
MRASZ	7000,0	VT	VD	08	FSK8 (ALE)	USA	UiMUX	125	1750	USAF net T1210 SHOTOC, GUNTOC, R421,T28CAB ETC.
MRASZ	7007,0	VT	VD	08	FSK8 (ALE)	USA	UiMUX	125	1750	ICZSPR SOUNDED US SIPRI Net Gateway, Sigonella
MRASZ	7010,0	VT	VD	08	FSK8 (ALE)	Ui	UiMUX	125	1750	CS - RS net
MRASZ	7020,0	VT	VD	08	FSK8 (ALE)	Ui	UiMUX	125	1750	CS - RS net
MRASZ	7020,0	VT	VD	08	FSK8 (ALE)	HNG	UiMUX	125	1750	HUNGARIAN ARMY NET. 035 CALLS 082 AND 093.
MRASZ	7027,0	VT	VD	08	FSK8 (ALE)	HNG	UiMUX	125	1750	HUNGARIAN ARMY NET. 035 CALLS 082 AND 093.
MRASZ	7045,0	VT	VD	08	FSK8 (ALE)	Ui	UiMUX	125	1750	IRET CALLS ORMZ UNID NEW NET
MRASZ	7049,0	VT	VD	08	FSK8 (ALE)	Ui	UiMUX	125	1750	65M-852 UNID
MRASZ	7060,0	VT	VD	08	FSK8 (ALE)	Ui	UiMUX	125	1750	LSJ - TLA UNID
MRASZ	7070,0	VT	VD	08	FSK8 (ALE)	UK	UiMUX	125	1750	UK FOREST MOORE TASCOTT HF HQ. XSS CALLSIGN
MRASZ	7070,0	VT	VD	08	FSK8 (ALE)	GEO	UiMUX	125	1750	244-288 NET POSSIBLE GEORGIAN.
MRASZ	7080,0	VT	VD	08	FSK8 (ALE)	ALB	UiMUX	125	1750	ALBANIAN MoPO. 5810 SOUNDING
MRASZ	7090,0	VT	VD	08	FSK8 (ALE)	Ui	UiMUX	125	1750	NEW INTRUDEA AGAIN. 9999 SOUNDED. NO ANSWER.
MRASZ	7092,0	VT	VD	08	FSK8 (ALE)	TUR	UiMUX	125	1750	4001 NET LOTS OF CALLSIGNS:
MRASZ	7095,0	VT	VD	08	FSK8 (ALE)	Ui	UiMUX	125	1750	NEW INTRUDER. 1101 SOUNDED.
MRASZ	7097,0	VT	VD	08	FSK8 (ALE)	UK	UiMUX	125	1750	UK FOREST MOORE TASCOTT HF HQ. XSS CALLSIGN
MRASZ	7098,0	VT	VD	08	FSK8 (ALE)	Ui	UiMUX	125	1750	NEW INTRUDER. 513 CALLS 412.
MRASZ	7105,0	VT	VD	08	FSK8 (ALE)	Ui	UiMUX	125	1750	KP2 SOUNDED UNID.
MRASZ	7107,0	VT	VD	08	FSK8 (ALE)	Ui	UiMUX	125	1750	UNID ARABIC VOICE NET ALSO KNOWN AS 4378xx-NET. CALLSIGNS: 437808 437815.

CLUB	kHz	UTC	DD	MM	MODE	ITU	IDENT	BD	SH	DETAILS
MRASZ	7107,0	VT	VD	08	FSK8 (ALE)	Ui	UiMUX	125	1750	UNID 6320 SOUNDED.
MRASZ	7110,0	VT	VD	08	FSK8 (ALE)	UK	UiMUX	125	1750	UK FOREST MOORE TASCMM HF HQ. XSS CALLSIGN
MRASZ	7115,0	VT	VD	08	FSK8 (ALE)	Ui	UiMUX	125	1750	9201 UNID
MRASZ	7116,0	VT	VD	08	FSK8 (ALE)	Ui	UiMUX	125	1750	1101, 1703 AND 4 - FIGURES NET UNID.
MRASZ	7149,0	VT	VD	08	FSK8 (ALE)	ALB	UiMUX	125	1750	ALBANIAN MoPO. 5810 SOUNDING
MRASZ	7149,0	VT	VD	08	FSK8 (ALE)	ALB	UiMUX	125	1750	ALBANIAN MoPO. 5810 SOUNDING
MRASZ	7165,0	VT	VD	08	FSK8 (ALE)	Ui	UiMUX	125	1750	NEW INTRUDEA AGAIN. 9999 SOUNDED. NO ANSWER.
MRASZ	7197,0	VT	VD	08	FSK8 (ALE)	TUR	UiMUX	125	1750	Red Crescent TURKEY 4 FIGURES NET. CALLSIGNS: 3031, 3061, 3015, 3551, 3161, 3251, 3261, 3351, 3421, 3551, 3061, 3771, 4061, 8161, 8541, 8551, 9857, 3651, 9850.
MRASZ	7200,0	VT	VD	08	FSK8 (ALE)	USA	UiMUX	15	1750	USAF NET. R26163-T3210
MRASZ	14000,0	VT	VD	08	FSK8 (ALE)	HNG	UiMUX	125	1750	HUNGARIAN ARMY NET. 035 CALLS 082 AND 093.

OEVSU – Austria – OE3DMA (Alex)

REP – Portugal – CT4AN (Jose Francisco)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	DETAILS
REP	3550	06.15	02	08	F		A3E	French OM's giving calls . Daily from 06.00Z INFRINGE IARU-R1 BAND PLANS
REP	3560,0	20.38	19	08	KRE		8k00 A3EGN	R. Korea (intermodulation) 0.78uV S3
REP	3562	19.10	02	08	E		J3E-U	Spanish talks fishery like
REP	3569	01.00	02	08		P	A1A	Beacon hrd daily after 01.00Z
REP	3575	06.30	12	08	F		A3E	French OMs giving calls. Sundays morning INFRINGE IARU-R1 BAND PLANS
REP	3756,0	20.23	19	08	UKR		A2A	Pulse, 1pps 25uV S8
REP	7000,5	20.26	19	08			J3E-U	Unidentified Talks 0.78uV S3
REP	7025	17.15	25	08	E		J3E-U	Spanish fishers boat to boat
REP	7038,9	20.23	19	08	RUS	S	A1A	MURMANSK Beacon - ADY-DLY 6.3uV S6
REP	7038,8	20.21	19	08	UKR	D	A1A	SEVASTOPOL Beacon - ADY-DLY 12.5uV S7
REP	7100	20.18	19	08	KRE		8k00 A3EGN	Voice of Korea (North) 1581uV S9+30dB
REP	7105	23.45	30	08	TWN		8k00 A3EGN	R. Sound of Hope on Sundays English lang.
REP	7105	23.30	12	08	CHN		8k00 A3EGN	Carrier faint Chinese BC - talks and music
REP	7110	19.50	19	08	ETH		8k00 A3EGN	R. Ethiopia 500uV S9+40dB
REP	7135	02.40	18	08	ETH		8k00 A3EGN	Radio Ethiopia - amharic lang. giving News
REP	7145	02.00	18	08	SOM		8k00 A3EGN	Radio Hargheisa - hour announcements
REP	7165	02.40	27	08	ETH		8k00 A3EGN	Radio Asmara - music and announcement
REP	7165	01.30	21	08	ETH		8K00 A3EGN	Radio Ethiopia - Amharic talks and music
REP	7190	23.50	28	08	MRC		8K00 A3EGN	Radio Rabat Fridays - music and News

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	DETAILS	
REP	7200	20.14	19	08	SDN		8k00 A3EGN	R. Omdurman – Overlapping Ham Band 500uV S9+40dB	
REP	10105	21.00	06	08	MLA		J3E-U	Malaysian fishery	
REP	14000	07.30	25	08	E		J3E-U	Spanish fishermen at Ceuta harbour	
REP	14000	07.00	21	08			J3E-U	Net like - swaili language (?)	
REP	14005	07.15	09	08	MRC		J3E-U	Moroccan fishery - daily	
REP	14100	18.30	21	08			J3E-U	Arab net mixed voices French / English	
REP	14110	16.30	28	08	I		J3E-U	Sardinia Lamaddalena harbour assisting private cruising race	
REP	28010	10.30	23	08	E		8K00 A3EGN	BC relayed - Spanish language	
REP	28060	12.00	11	08	F		A3E	CB talks	
REP	28120	11.50	06	08	E		A3E	CB talks	
REP	28175	13.20	11	08	HRV		A3E	Split taxis	
REP	28185	15.40	24	08	E		A3E	Valencia taxis	
REP	28275	08.30	20	08	E		A3E	Taxi car control Spanish lang.	
REP	28315	10.40	20	08	E		A3E	Taxi from Malaga	
REP	28320	13.30	20	08	ROU		A3E	Timisoara taxi car control	
REP	28350	17.40	25	08	ROU		A3E	Timisoara taxis	
REP	28350	13.15	12	08	RUS		A3E	Russian language unidentified	
REP	28375	14.10	13	08	BIH		A3E	Serbo-Croatian language unidentified	
REP	29010	14.00	27	08	MRC		A3E	Club Dar El Baida many languages daily hrd from 14.00Z	
REP	29010	14.00	21	08	MRC		F3E	As above Golf Club	

RSGB - Great Britain – G4BOH (Chris)

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	REMARKS
RSGB	7030	1400- 2300	DLY	08	BLR	BC stn A09		-	-	Spurious sig from BC antennas using 7210 kHz and 7390 kHz at Minsk tx site. Baldock informed Belarus authorities. Signal still present. Baldock informed ITU.
RSGB	14002	24H	DLY	08	G	NATO	F1B	50	850	Mil base on Diego Garcia. Disappeared shortly after Baldock made enquiry.

SRAL – Finland – OH2BLU (Pekka)

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	REMARKS
SRAL	7000,0	1810	7	8		UiMUX	J7D		
SRAL	7002,1	0700- 1300	25	8		UiCarr	NON		
SRAL	7008,0	0530- 1500	*	8	RUS	UiPTR	F1B	250	Days 8, 10, 25, 31
SRAL	7010,0	0900- 1100	27	8	RUS	UiMUX	J7D		
SRAL	7016,0	0830- 1500	1, 10	8		UiPTR	F1B	250	
SRAL	7019,0	0610	18	8	RUS	RAL2	A1A		Calls RBC70
SRAL	7020,0	0800- 1300	8, 25	8	RUS	UiPTR	F1B	250	
SRAL	7022,0	0745- 0815	13	8	RUS	UiMUX	J7D		
SRAL	7025,0	0950- 1430	19	8	RUS	UiPTR	F1B		
SRAL	7032,0	0745	31	8		UiPTR	F1B	250	
SRAL	7038,7	h24	dly	8	UKR	D	A1A		Sevastopol
SRAL	7038,9	h24	dly	8	RUS	S	A1A		Severomorsk
SRAL	7039,0	h24	dly	8	RUS	C	A1A		Moscow

Society	KHz	UTC	DD	MM	ITU	IDENT	MODE	SH	REMARKS
SRAL	7047,0	0240	5	8	RUS	UiMUX	J7D		
SRAL	7054,0	1700-0700	dly	8	RUS	UiPTR	F1B	200	25 Hz dotter
SRAL	7062,0	1200-1300	25	8		UiPTR	F1B	250	
SRAL	7072,0	0800-1800	*	8		UiPTR	F1B	150	Days 4, 12, 16, 28
SRAL	7075,0	0300-1030	26-29	8		UiMUX	J7D		
SRAL	7076,0	0830-1430	1	8		UiPTR	F1B	250	
SRAL	7080,0	0440	2	8	RUS	UiPTR	F1B		
SRAL	7086,5	0700-1130	25	8		UiPTR	F1B	250	
SRAL	7088,0	0500-1830	21-23	8		UiPTR	F1B	250	
SRAL	7093,0	0830-1730	*	8	UKR	UiPTR	F1B	150	Days 4, 17, 21, 28
SRAL	7100,0	1500-1800	dly	8	ERI	VoBME	A3E		
SRAL	7100,0	1800-2100	dly	8	KRE	VoKorea	A3E		
SRAL	7105,0	1800-1802	dly	8		UiBC	N0N		
SRAL	7110,0	*	dly	8	ETH	R Eth.	A3E		0300-0500, 1300-2000
SRAL	7112,0	0650-1710	27, 31	8		UiMUX	J7D		
SRAL	7116,0	0630-1000	21-26	8		UiPTR	F1B	200	Also J7D
SRAL	7116,0	0820	28	8		RIF94	A1A		
SRAL	7120,5	1350	27	8		UiPTR	F1B		
SRAL	7122,0	0200-2000	dly	8	RUS	RDL	F1B	200	Kaliningrad, dotter 25 Hz
SRAL	7124,0	0400-1030	26, 30	8		UiMUX	J7D		
SRAL	7130,0	1400-1800	1-16	8	TWN & CHN	RTI & CNR1	A3E		5 – 15 Hz apart, CNR1 until 17th
SRAL	7130,0	0830-0900	21	8		UiPTR	F1B	1000	
SRAL	7135,0	1400-2000	dly	8	BLR?	UiBC	A3E		
SRAL	7135,0	0700-1500	21, 25	8	RUS	UiPTR	F1B	250	
SRAL	7142,0	1745-1800	20	8		UiPTR	F1B	500	
SRAL	7145,0	1100-1900	dly	8	SOM	R Hargeisa	A3E		
SRAL	7148,0	0400-0420	26	8		UiPTR	F1B	200	
SRAL	7149,0	0600-0730	18	8	RUS	RMW32	A1A		Calls RKP56
SRAL	7150,0	0730-1400	8	8		UiMUX	J7D		
SRAL	7159,0	0600-0730	1,12, 26	8		UiCW	A1A		MR 5F
SRAL	7165,0	1300-2000	dly	8	ERI	VoBME	A3E		Jammed by ETH 5 – 15 Hz apart
SRAL	7166,0	1830-1900	6	8	RUS	PVO	A1A		Groups of figures / timestamp location code “9”
SRAL	7170,0	0730	26	8	RUS	UiVOX	R3E-u		Female robot “745 – 00000”
SRAL	7172,0	0820	28	8	RUS	RIR2	A1A		
SRAL	7175,0	0330-0630	dly	8	ERI	VoBME	A3E		Jammed by ETH 5 – 15 Hz apart
SRAL	7175,0	1300-2000	dly	8	ERI	VoBME	A3E		Jammed by ETH 5 – 15 Hz apart

Society	KHz	UTC	DD	MM	ITU	IDENT	MODE	SH	REMARKS
SRAL	7176,0	0910-1130	8	8	KAZ?	UiPRT	F1B	250	
SRAL	7182,0	0810-0830	20	8		UiPTR	F1B	850	
SRAL	7185,0	1030-1700	1-15	8	TWN & CHN	RTI & CNR1	A3E		5 – 15 Hz apart CNR1 until 16th
SRAL	7185,5	0830-0930	21	8		UiPTR	F1B		
SRAL	7186,0	0400-1800	17-31	8	RUS	UiMUX	J7D		
SRAL	7190,0	0730-0900	6	8	RUS	UiMUX	J7D		
SRAL	7193,0	1100-1120	21	8		YDX8	A1A		Calls 8BBU
SRAL	7196,0	0820	28	8		UiPTR	F1B		
SRAL	7198,0	0200-1630	*	8		UiMUX	J7D		Days 5, 11, 24
SRAL	7199,0	1845	5	8		UiPTR	F1B		
SRAL	7200,0	0230-2000	dly	8	SDN	R Sudan	A3E		
SRAL	7200,0	1800-1900	24	8	RUS	R Rossii	A3E		
SRAL	10140	0510	27	8	CYP	UiOTHR	P0N		50 Hz pulses
SRAL	14000	0410	29	8	CYP	UiOTHR	P0N		50 Hz pulses
SRAL	14002	0855-1400	9	8		UiPTR	F1B	1000	
SRAL	14050	1240-1245	13	8	RUS	UiVOX	R3E-u		Female robot “425 – 00000”
SRAL	14051	0745-1300	8	8		UiMUX	J7D		
SRAL	14104	0835-1005	1	8	RUS	UiPTR	F1B	250	
SRAL	14108	0710-1200	*	8		Z4ST	A1A		MR 5BL. Days 2, 8, 15, 22, 27
SRAL	14110	0730-1410	*	8		UiPTR	F1B	250	Days 12, 13, 17
SRAL	14118	1100	28	8		UiCW	A1A		MR 5BL
SRAL	14122	0730-1250	*	8		UiMUX	J7D		Days 12, 17, 18, 19, 24, 28
SRAL	14141	0710-1130	*	8		UiPTR	F1B		Days 8, 15, 27
SRAL	14142	1000-1100	24	8		UiMUX	J7D		
SRAL	14160	0435-0600	27	8		UiPTR	F1B	250	
SRAL	14161	0710-1300	8,24	8		UiMUX	J7D		
SRAL	14177	0750	8	8		UiPTR	F1B		
SRAL	14192	0640-1100	16, 18	8	RUS	UiPTR	F1B	500	Kaliningrad
SRAL	14202	1620-1800	27	8	GRC?	UiPTR	F1B	850	
SRAL	14206	0845	27	8		UiMUX	J7D		Idling 200 Hz
SRAL	14221	0410-1100	4,29	8		UiPTR	F1B		
SRAL	14240	0720	8	8		UiCW	A1A		MR 5BL
SRAL	14242	1205	26	8		UiMUX	J7D		
SRAL	14270	0910	28	8		UiCW	A1A		Z- codes
SRAL	14292	0615	29	8	RUS	UiCW	A1A		MR 5BL
SRAL	14295	0600-1500	dly	8	TJK	R Tojikiston	A3E		3f 4765 kHz, Yangiyul TX
SRAL	14312	0910-1015	24, 29	8		UiCW	A1A		MR 4F & 5BL

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	REMARKS
SRAL	14334	0720-1000	15	8		UiMUX	J7D		
SRAL	14350	1140	4	8	CYP	UiOTH	P0N		50 Hz pulses
SRAL	18070	1130	24	8	CYP	UiOTH	P0N		
SRAL	28000-28305	0645-0920	*	8	RUS	UiVOX	F3E		Days 1, 4, 6, 8, 23 reports

USKA – Switzerland – HB9CET (Peter)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
USKA	7000.0	1639	07	08		WAR	MFSK8	125	1750	MIL 188-141A, ALE daily
USKA	7000.0	1654	07	08		T1Z	MFSK8	125	1750	MIL 188-141A, ALE daily
USKA	7000.0	1724	07	08		T1Z10	MFSK8	125	1750	MIL 188-141A, ALE daily
USKA	7000.0	1817	07	08			J7D	12x120		PSK-2: CIS 12 = AT3004D
USKA	7000.0	1941	13	08		T1Z137	MFSK8	125	1750	MIL 188-141A, ALE daily
USKA	7000.0	1319	16	08			J3E-U			unid language (ital or span)
USKA	7000.0	1644	19	08			J3E-L			arabian
USKA	7000.7	0936	07	08			N0N			permanent carrier
USKA	7000.8	1407	21	08			N0N			permanent carrier (7000.880)
USKA	7001.0	1437	11	08			N0N			permanent carrier (7001.007)
USKA	7001.1	1509	10	08			N0N			permanent carrier (7001.083)
USKA	7001.5	1325	16	08			F1B	200	200	ARQ, unid; similar Pactor
USKA	7005.0	1056	18	08			J7D	12x120		PSK-2: CIS 12 = AT3004D
USKA	7009.0	2133	04	08			A3E			BC unid, IM?
USKA	7010.0	1335	05	08		CS0	MFSK8	125	1750	MIL 188-141A, ALE daily
USKA	7010.0	1430	05	08		CS002	MFSK8	125	1750	MIL 188-141A, ALE daily
USKA	7012.0	1257	17	08			MPSK	2400bps		unid
USKA	7016.0	1501	10	08			F1B	75	250	unid
USKA	7016.0	1504	10	08			F1A	50	250	unid almost daily
USKA	7020.0	1339	07	08		CS004A	MFSK8	125	1750	MIL 188-141A, ALE daily
USKA	7021.5	1105	15	08			PSK8			MIL 188-110A
USKA	7022.0	1203	05	08			J7D	12x120		PSK-2: CIS 12 = AT3004D
USKA	7027.5	1842	05	08		V	A1A			Beacon V (new ?)
USKA	7038.7	0916	01	08	UKR	D	A1A			Beacon D Sevastopol daily
USKA	7038.9	1543	04	08	RUS	S	A1A			Beacon S Murmansk daily
USKA	7039.0	2049	04	08	RUS	C	A1A			Beacon C Moscow daily
USKA	7047.0	2033	04	08			J7D	12x120		PSK-2: CIS 12 = AT3004D daily
USKA	7047.0	1839	13	08			J7D	12x120		CIS 12 = AT3004D idling
USKA	7054.0	2031	04	08	RUS		F1B	50	200	unid daily
USKA	7080.0	2033	04	08			F1B	50	200	unid frequently
USKA	7087.9	2209	23	08			N0N			permanent carrier (7087.875)
USKA	7088.0	1521	21	08			F1B	75	250	unid
USKA	7088.9	1007	19	08			PSK8			Link 11 SLEW over days
USKA	7089.9	1329	17	08	UKR		F1C	60rpm		WEFAX IOC-576 daily
USKA	7093.0	1501	04	08			F1B	100	150	unid almost daily
USKA	7098.0	1507	19	08			F1B	40.5	250	CIS 81 Modem
USKA	7100.0	2035	04	08			A3E			BC daily
USKA	7100.0	1214	05	08			J7D	12x120		PSK-2: CIS 12 = AT3004D
USKA	7102.5	1033	07	08			F1B	40.5	250	unid
USKA	7105.0	2036	04	08			A3E			BC
USKA	7110.0	2037	04	08			A3E			BC
USKA	7122.0	2046	04	08			F1B	50	200	unid daily
USKA	7130.0	2038	04	08			J7D	12x120		PSK-4: CIS 12 = AT3004D
USKA	7130.0	1513	05	08			A3E			China Radio International
USKA	7135.0	2041	04	08			A3E			BC
USKA	7135.0	1402	21	08			F1B	40.5	250	CIS 81 Modem
USKA	7136.5	1358	26	08			F1B	100	150	unid
USKA	7140.0	1542	26	08			J7D	12x120		PSK-2: CIS 12 = AT3004D
USKA	7160.0	1747	07	08			J7D	12x120		PSK-2: CIS 12 = AT3004D
USKA	7165.0	1517	05	08			A3E			BC
USKA	7166.0	2043	04	08	EST		A1A			unid almost daily
USKA	7175.0	1516	10	08			A3E			BC
USKA	7178.5	1135	19	08		NK3B	A1A			letters + figures in groupes
USKA	7180.0	2054	04	08			A3E			BC

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
USKA	7182.0	2152	23	08			F1B	100	850	unid
USKA	7185.0	1518	05	08			A3E			BC
USKA	7186.0	0745	31	08			J7D	12x120		CIS 12 = AT3004D
USKA	7197.0	1206	05	08			J7D	12x120		PSK-2: CIS 12 = AT3004D
USKA	7200.0	2044	04	08			A3E			BC
USKA	14000.0	1514	10	08			J3E-U			unid language
USKA	14000.0	0801	31	08			J3E-U			en; saying permanently: P C D 2
USKA	14000.7	0758	31	08			N0N			2nd carrier at 13999.7 maybe together (= 14000.0 center)
USKA	14002.0	1546	09	08			F1B	50	850	unid daily
USKA	14008.0	1054	20	08			F1B	50	250	unid
USKA	14026.0	1107	20	08			J7D	12x120		PSK-2: CIS 12 = AT3004D
USKA	14028.0	0911	26	08			F1B	75	250	unid
USKA	14052.0	1239	05	08			J7D	12x120		PSK-2: CIS 12 = AT3004D
USKA	14052.0	1421	08	08			J7D	12x120		PSK-2: CIS 12 = AT3004D
USKA	14060.0	1715	11	08		AAA	MFSK8	125	1750	MIL 188-141A, ALE
USKA	14060.0	1144	31	08		AA1	MFSK8	125	1750	MIL 188-141A, ALE
USKA	14060.0	1156	31	08		T56	MFSK8	125	1750	MIL 188-141A, ALE
USKA	14060.0	1459	31	08		AA8	MFSK8	125	1750	MIL 188-141A, ALE
USKA	14077.0	0941	19	08			J7D	12x120		PSK-2: CIS 12 = AT3004D
USKA	14086.0	1007	07	08			J7D	12x120		CIS 12 = AT3004D
USKA	14104.0	0921	01	08			F1B	100	250	unid
USKA	14110.0	1001	11	08			F1B	75	250	unid frequently
USKA	14116.0	0701	07	08			F1B	75	250	unid
USKA	14122.0	0935	18	08			J7D	12x120		PSK-2: CIS 12 = AT3004D frequently
USKA	14143.0	1022	07	08			J7D	12x120		PSK-2: CIS 12 = AT3004D
USKA	14162.0	1214	05	08			J7D	12x120		PSK-2: CIS 12 = AT3004D frequently
USKA	14169.0	1211	24	08			F1B	50	200	unid frequently
USKA	14192.0	1213	16	08			F1B	50	500	unid frequently
USKA	14221.0	1443	04	09			F1B	50	200	unid frequently
USKA	14248.5	1112	20	08			F1B	600	600	ARQ
USKA	14248.5	1123	20	08			F1B	1200	600	ARQ
USKA	14283.0	0958	19	08			F1B	40.5	250	CIS 81 Modem
USKA	14312.0	1055	13	08			A1A			unid; letters + figures frequently
USKA	14312.0	1016	18	08			A1A			figures
USKA	14317.0	1724	15	08			A1A			unid; letters + figures frequently
USKA	14328.4	1624	22	08			F1B	600	600	ARQ FSK
USKA	14333.0	1046	13	08			F1B	50	200	unid frequently
USKA	14333.0	1733	15	08			F1B	75	200	unid
USKA	14333.0	1215	17	08			F1A			unid, letters and figures
USKA	14341.0	1241	16	08			J7D	12x120		PSK-2: CIS 12 = AT3004D
USKA	14350.0	2009	20	08			J3E-U			unid language
USKA	18080.0	1116	11	08			J3E-U			unid language
USKA	28100.0	1436	04	08			F3E			unid language
USKA	28105.0	1438	04	08			F3E			unid language
USKA	28346.5	1901	18	08		CV	A1A			Fishery buoy
USKA	28401.3	2050	18	08		NA	A1A			Fishery buoy

Veron 1 – Netherlands – PA0GRU (Dick)

SOC	kHz	UTC	DD	MM	ITU	IDENT	Mode	BD	SH	DETAILS
VERON	3531,0	19.00	13	8		UiPTR	F1B			Ptr, also 18/8 19.16 utc
VERON	7005,0	17.45	21	8	CIS	UiCW	A1A			5BL
VERON	7018,0	20.45	31	8	RUS	UiPTR	F1B			Revs
VERON	7027,5	17.25	vd	8	?	V	A1A			20.05 utc, beacon, 2 days
VERON	7036,3	04.46	vd	8	RUS	UiMUX	J7D			17.35 utc, 12 MPSK, 4 days
VERON	7038,7	04.45	vd	8	UKR	D	A1A			17.33 utc, beacon Sevastopol, 8 days
VERON	7038,7	vt	vd	8	UKR	D	A1A			D-beacon
VERON	7038,9	vt	vd	8	RUS	S	A1A			S-beacon
VERON	7039,0	17.44	1	8	RUS	C	A1A			C-beacon
VERON	7039,0	04.45	vd	8	RUS	C	A1A			17.33 utc, beacon Moscow, 9 days

SOC	kHz	UTC	DD	MM	ITU	IDENT	Mode	BD	SH	DETAILS
VERON	7045,0	19.25	31	8	E	UiILL	J3e-L			Spanish, male/female
VERON	7054,0	19.04.44	vd	8	RUS	UiPTR	F1B		250	18.28 utc, Revs, 8 days
VERON	7072,0	15.50	12	8	CIS	UiPTR	F1B			Revs
VERON	7088,0	vt	vd	8		UiPTR	F1B			Ptr
VERON	7110,0	17.37	18	8		UiBC	A3E			unknown language, speech
VERON	7113,0	19.05	13	8		UiBC	A3E			unknown language, speech
VERON	7122,0	17.38	18	8		UiPTR	F1B			Ptr
VERON	7122,0	05.27	vd	8	RUS	RDL	F1B		250	19.46 utc, Revs/Ptr, 2 days
VERON	7126,0	15.52	12	8		UiBC	A3E			Chinese language
VERON	7166,0	vt	vd	8		UiCW	A1A			Strings of figures
VERON	7166,0	17.44	18	8	CIS	UiCW	A1A			992143 ?? 8 ??? Etc
VERON	7166,0	17.45	18	8		UiBC	A3E			music
VERON	7185,0	15.58	12	8		UiBC	A3E			speech Asiatic
VERON	7197,0	17.45	18	8		UiBC	A3E			music and speech, India ?
VERON	7198,0	19.07	13	8		UiBC	A3E			unknown language, speech
VERON	10107,0	12.49	13	8	CIS	UiPTR	F1B		200	Ptr
VERON	10107,0	10.52	24	8	CIS	UiPTR	F1B		200	Ptr
VERON	10130,0	09.45	23	8		UiPTR	F1B			Ptr
VERON	10140,5	06.00	4	8	E	UiILL	J3e-U			Spanish fishery, info DL6XAZ, Fred
VERON	14001,0	07.32	5	8		UiCAR	NON			carrier
VERON	14008,0	vt	vd	8	CIS	UiPTR	F1B			Carrier/Revs/Ptr
VERON	14008,0	08.57	30	8	CIS	UiPTR	F1B			Ptr
VERON	14084,0	09.36	23	8		UiPTR	F1B			Ptr
VERON	14108,0	09.37	23	8	CIS	CKX9	A1A			Calls (to: AR8I DKYA OKKB OSVU 5YVQ)
VERON	14110,0	05.18	13	8	CIS	UiPTR	F1B		250	Ptr, also 18/8, 14/8,11/8, 07.16 utc
VERON	14120,0	10.52	19	8	RUS	UiMUX	J7D			12 MPSK AT 3004-D, also 22/8 08.38 utc
VERON	14192,0	17.10	22	8		UiPTR	F1B			Revs
VERON	14283,0	09.54	19	8	CIS	UiPTR	F1B			Ptr
VERON	14300,0	09.55	19	8	RUS	UiMUX	J7D			12 MPSK AT 3004-D
VERON	14333,0	vt	vd	8		UiPTR	F1B			Revs/Ptr

Veron 2 – Netherlands – PA0GRU (Dick)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
VERON	3732,0	20.12	8	8		UiMux	G7D			MPSK-12
VERON	3772,0	20.09	8	8		UiPtr	F1B		200	Printer
VERON	3781,5	20.08	8	8		UiPtr	F1B		200	Printer
VERON	7030,0	19.59	9	8		UiBC	A3E			Radio Belarus?
VERON	7038,7	vt	vd	8	UKR	D	A1A			Beacon
VERON	7038,8	vt	vd	8	RUS	S	A1A			Beacon
VERON	7038,9	17.29	7	8		C	A1A			Beacon
VERON	7047,9	12.38	6	8		UiPtr	F1B		250	Printer
VERON	7054,0	vt	vd	8	RUS	UiPtr	F1B		200	Printer
VERON	7100,0	vt	vd	8	KRE	VoK	A3E			English news bulletin, S9
VERON	7110,0	vt	vd	8	ETH	Radio Eth	A3E			Voices & music, S9+10dB
VERON	7120,0	17.18	7	8		UiBC	A3E			Chinese like language
VERON	7122,0	vt	vd	8	RUS	UiPtr	F1B		200	Printer
VERON	7130,0	17.16	7	8		UiBC	A3E			Male voice, SE Asia?
VERON	7135,0	vt	vd	8	BLR	R. Belarus	A3E			Russian language, S6
VERON	7145,0	17.13	7	8		UiBC	A3E			Arabic music
VERON	7165,0	17.39	15	8		Radio Eth	A3E			Music, S9+10dB
VERON	7165,0	vt	vd	8		Jammer	A3E			Rushing noise S9+20dB, 40kHz wide
VERON	7175,0	19.47	8	8		UiBC	A3E			Voice & rushing noise S9+10dB
VERON	7175,0	19.37	9	8	CHN	UiBC	A3E			Chinese music

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
VERON	7195,0	19.34	9	8		UiBC	A3E			Chinese music
VERON	10100,8	15.00	27	8		UiPtr	F1B		450	Printer
VERON	10112,0	vt	vd	8	TUR	UiMux	G7D			MPSK-8, Stanag system, 2k6 wide
VERON	10135,0	13.52	21	8		UiMux	J7D			MPSK-12
VERON	14015,0	vt	vd	8		UiMux	G7B			frequency hopper
VERON	14047,0	16.32	13	8		UiMux	G7B			frequency hopper
VERON	14051,5	13.52	5	8		UiMux	G7D			MPSK-8, Stanag-like system
VERON	14060,0	13.26	19	8		UiMux	G7B			frequency hopper
VERON	14064,0	12.14	6	8		UiPtr	F1B		250	Printer
VERON	14066,0	14.37	3	8		UiMux	J7D			MPSK-12
VERON	14075,0	13.54	5	8		UiMux	G7B			frequency hopper
VERON	14109,0	14.32	27	8		UiMux	J7D			MPSK-12
VERON	14110,0	14.43	3	8		UiPtr	F1B		200	Printer
VERON	14110,0	12.53	13	8	RUS	UiPtr	F1B		250	Printer
VERON	14120,0	13.56	5	8		UiMux	G7B			frequency hopper
VERON	14139,0	vt	vd	8		UiMux	G7B			frequency hopper
VERON	14140,0	14.45	3	8		OTHR	PON			50Hz pulses
VERON	14144,0	14.46	3	8		UiMux	G7B			frequency hopper
VERON	14162,0	vt	vd	8		UiMux	J7D			MPSK-12
VERON	14192,0	17.33	15	8	RUS	UiPtr	F1B		500	Printer
VERON	14202,0	14.40	27	8	GRC	UiPtr	F1B		850	Printer
VERON	14203,0	13.35	19	8		UiMux	G7B			frequency hopper
VERON	14295,0	13.25	13	8	TJK	UiBC	A3E			S5
VERON	14296,0	vt	vd	8		UiMux	G7B			frequency hopper
VERON	18070,0	13.46	5	8		UiMux	G7B			frequency hopper
VERON	18093,0	13.20	21	8		UiMux	G7B			frequency hopper
VERON	18124,0	13.22	21	8		UiMux	G7B			frequency hopper
VERON	18126,0	13.19	19	8		UiMux	G7D			MPSK-8
VERON	18157,0	13.20	19	8		UiMux	G7D			MPSK-8
VERON	21051,7	14.24	3	8		UiMux	J7D			MPSK-4
VERON	21125,0	14.28	3	8		UiMux	G7D			MPSK-8, Stanag-like system
VERON	24899,0	13.29	5	8		UiMux	G7D			MPSK-8
VERON	24960,0	vt	vd	8		UiMux	J7D			MPSK-12
VERON	28125,9	14.06	28	8		Unlis?	F3E			Unreadable voices
VERON	28144,4	13.46	3	8	ITA	UiCB	A3E			Italian language, CB-like conversation
VERON	28166,0	13.22	5	8		UiMux	G7D			MPSK-4
VERON	28176,4	11.30	6	8	ITA	UiCB	A3E			Italian language, CB-like conversation
VERON	28185,0	13.48	3	8		OTHR	PON			33Hz pulses, 70 kHz wide
VERON	28261,9	vt	vd	8		UiMux	J7D			MPSK-8
VERON	28262,0	11.35	6	8		OTHR	PON			33Hz pulses
VERON	28311,5	13.25	5	8		UiMux	J7D			MPSK-8
VERON	28406,0	13.00	21	8		UiMux	J7D			MPSK-8
VERON	28502,0	13.02	21	8		UiMux	J7D			MPSK-12

Veron 3 – Netherlands – PA0GRU (Dick)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
VERON	7013,0	17.48	4	8	RUS	UiMUX	J7D			MPSK
VERON	7019,0	14.59	1	8	RUS	RAL2	A1A			to RIB2, RGH2,RMW2,RH82,RBL66, proc
VERON	7019,0	15.01	1	8	RUS	RIB2	A1A			to RAL2: proc
VERON	7019,0	15.01	1	8	RUS	RGH2	A1A			to RAL2: proc
VERON	7019,0	15.02	1	8	RUS	RMW2	A1A			to RAL2: proc
VERON	7019,0	15.03	1	8	RUS	RHQ2	A1A			to RAL2: proc
VERON	7019,0	15.04	1	8	RUS	RBL66	A1A			to RAL2: proc
VERON	7019,0	15.06	1	8	RUS	RBL672	A1A			to RAL2: proc
VERON	7019,0	06.11	29	8	RUS	RAL2	A1A			qso RLO2: proc
VERON	7019,0	06.12	29	8	RUS	RLO2	A1A			qso RAL2: proc
VERON	7122,0	19.08	4	8	RUS	UiCW	A1A			5F

VERON	7122,0	19.46	6	8	RUS	RDL	F1B		250	Revs, Ptr
VERON	7122,0	12.38	7	8	RUS	RDL	F1B			5F
VERON	7122,0	06.56	24	8	RUS	RDL	F1A		250	(morse) RDL 99077 24627 K
VERON	7122,0	07.13	24	8	RUS	RDL	F1A		250	RDL 1223 20948 (several times) K
VERON	14002,0	05.28	10	8	?	UiPtr	F1B		850	Ptr
VERON	14108,0	06.41	1	8	CIS	Z4ST	A1A			to B5LO, 3CF1, 5UT3, 9VZ1, KCZK, proc
VERON	14108,0	06.00	4	8	CIS	TRQS	A1A			to KCZK: ZHK ZDS ZDN QYT6 K proc
VERON	14108,0	05.37	5	8	CIS	KCGO	A1A			to 5UT3, ZDD ZDQ ZGN QYT6 K
VERON	14108,0	05.57	8	8	CIS	Z4ST	A1A			to 3K8B, QBE QYT9 QYT16 k proc
VERON	14108,0	09.16	9	8	CIS	Z4ST	A1A			5BL, proc
VERON	14108,0	06.02	10	8	CIS	Z4ST	A1A			to B5LO, 5UT3, 9VZ1, KCZK, etc, proc
VERON	14108,0	05.59	11	8	CIS	K8TE	A1A			to NAZR, ZMV ZMG ZUC QYT6 K
VERON	14108,0	06.28	11	8	CIS	BF3U	A1A			to GE8K, NAZR, J9C7, DLX7, SBAE, proc
VERON	14108,0	06.32	11	8	CIS	K8TE	A1A			to NAZR, QMV1, QJG, QYT6 K
VERON	14108,0	07.16	11	8	CIS	BF3U	A1A			to J9C7, QTC K/ 5BL
VERON	14108,0	05.05	22	8	CIS	CKX9	A1A			to 5YVQ: 5BL
VERON	14108,0	06.52	22	8	CIS	CKX9	A1A			to SVAW, MCWE, AR8I, DKYA, OKKB, etc
VERON	14108,0	05.18	27	8	CIS	UiCW	A1A			5BL, proc
VERON	14108,0	05.45	27	8	CIS	OZWZ	A1A			to CKV3: 5BL, proc
VERON	14108,0	06.52	27	8	CIS	CKX9	A1A			to SVAW, MCWE, AR8I, DKYA, OKKB, etc
VERON	14118,0	07.03	22	8	CIS	SW3J	A1A			to 6NON: 5BL /RPT AL QLN K
VERON	14118,0	07.20	28	8	CIS	SW3J	A1A			to 6NON: 5F
VERON	14192,0	06.34	27	8	RUS	UiPtr	F1B		500	Revs, Ptr

IARUMS Region 1

Many thanks for your interest!

The monitoring team of IARU Region 1

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compiled and published by DK2OM