



Monitoring System

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The monthly newsletter for Region 1

March 2012

The 23 members of the IARUMS Region 1 Monitoring Team:



Acknowledgements

++ ARI: DH7SA – Salvatore ++ ARSK: 5Z4NU - Ted ++ ASTRA: DL1BDF – Mustapha ++ DARC: DJ9KR – Uli ++
++ ERASD: SU1SA – Sayed ++ IRTS: EI4GXB - Ger ++ KARS: 9K2RR – Faisal ++ MARL: 9H1M – Dominic ++
++ MRASZ: HA7PL - Laci ++ NARS: 5N9AYM – Yusuf ++ NRRL: LA4EU – Hans Arne ++ OEVSV: OE3GSA – Gerd ++
++ PZK: SP3SUZ – Wladyslaw ++ RAL: OD5MV – Raja ++ REP: CT4AN – Jose ++ RSGB: G4BOH - Chris ++
++ SARL: ZS1FCS - Fred ++ SRAL: OH2BLU – Pekka ++ UBA: ON4VJ - Johnny ++ URE: EA5DY - Salvador ++
++ USKA: HB9CET - Peter ++ VERON: PA2GRU - Dick ++ ZRS: S56ZDB – Darko ++ G3VZV – Graham (satellite) ++
++ TG9ADV – Jorge (Co-ordinator Region 2) ++ VK3MV – Peter (Co-ordinator Region 3) ++ DF8FE – (Webmaster assis.) ++
++ DL8AAM (ALE) ++ DJ7KG (BUOYS) ++ DF5SX (BC) ++ DARC (server support) ++ OD5TE (Hani) ++
++ VE6SH – Tim (IARU President) ++ PB2T – Hans (IARU R1 President) ++ 9A5W - Nikola (EC-IARU-R1) ++
++ PTTs: German (BNetzA), BAKOM (Switzerland), OFCOM (UK) ++ SK6AW – DX-Cluster ++

Part 1: News and Infos

1. 7000.0 kHz EA1HBX – unwanted beacon

This beacon was observed by HB9CET and DK2OM.

EA5DY – Salvador (URE MS-Coordinator) – answered my request:

“The beacon was set up by EA1HBX at his own risk. No coordination with URE at all. Its a 5 Watts station with a NVIS antenna. We kindly asked the owner of the beacon to move to the recommended frequencies for unattended stations.” – **Dear Salvador, many thanks for your efforts!**

2. Mysterious PIP-signals on 27999.830 kHz

I found mysterious PIP-signals on 27999.830 kHz in A3E (AM). Only short PIPs on both sidebands, running synchronous, together with an unstable carrier. The PIPs on the upper sideband are covering the lower part of our 28 MHz-band. My bearings were about 80 degrees from DL, CIS? Similar “PIP” signals can be heard on 1812 kHz (Polish Navy) and 3756 kHz (Ukraine) daily. **27999.830 kHz is the carrier frequency!**

3. 7002.0 kHz – Indian dashes

Under good conditions you can hear slow dashes on 7002.0 kHz in the evening hours. The location is South India, no ident – purpose unknown.

4. 21 and 28 MHz - the new Turkish OTH Radar bands

During March 2012 we found many Turkish OTH Radars on 21 and 28 MHz. Parameters: 50 sweeps/sec and 20 kHz wide. Locations: West-Turkey, Ankara and South-East Turkey. Also transmitting on 14 MHz. The Cyprus OTH radar was also very active on 10, 18, 24, 21 and 28 MHz. We cannot expect a soon improvement. The situation in Middle East is intricate and unpredictable. Nobody will ask the Radio Amateurs, if they are amused or not.

5. History of IARUMS Region 1 – state March 2012

When I took over the IARUMS Region 1 Coordinator job from Hani, OD5TE, our monitoring team contained only 6 members in 2003. Now we have 23 members. It shows, that more and more societies and amateurs are interested to save our bands. Not all members are delivering monthly reports, but they are active at once, if needed. Read more infos about our IARUMS Region 1 History:

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

6. Brazilian truck drivers on 24 MHz

CT4AN reports Brazilian truckers in F3E (FM) and A3E (AM) on our 24 MHz-band. Observe his summary!

7. OE3GSA – new OEVSV MS-Coordinator

OE3GSA (Gerd) took over the MS-Coordinator job from OE3DMA (Alex). Due to his QRL, Alex did not have time enough for the monitoring job. Anyway: Dear Alex, you have tried the best under your circumstances! Many thanks! Now Gerd is welcomed to our monitoring team. Gerd will get our assistance as usual.



OE3GSA – Gerd – in front of his equipment

8. Homepage IARU Region 1 <http://www.iaru-r1.org/>
- Homepage IARUMS Region 1 <http://www.iarums-r1.org>
- Homepage IARUMS Region 2 <http://www.iaru-r2.org/>
- Homepage IARUMS Region 3 <http://www.iaru-r3.org/ms/>
- Intruderlogger Region 1 <http://peditio.net/intruder/bluechat.cgi>

Part 2: Detailed reports from the national Co-ordinators

DD = day *** MM = month *** dly = daily *** vt = various times *** vd = various days *** BD = Baud *** SH = shift *** SP = spacing *** Mode = mode of transmission *** A3E = AM *** A1A = CW *** J3E-U = USB *** J3E-L = LSB *** FSK (F1B) = frequency shift keying *** PSK = phase shift keying *** OFDM = orthogonal frequency division multiplex ALE (MIL-188-141A) = automatic link establishment *** MUX = multiplex *** Ui (unid) = unidentified *** Illicit = illegal *** UiLL = 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 *** pps = pulses per second (earlier radar systems) *** sps = sweeps/sec (radar systems) *** FMCW = frequency modulated continuous wave (OTH and coastal Radars)

ARSK MONITORING OVERVIEW FOR MARCH 2012

The broadcasts from Khartoum on 7200 kHz, Addis Ababa and Asmara (Eritrea) on other 40 meter frequencies between 7100 and 7200 kHz continued as usual. A steady, unidentified carrier was heard on 7 mHz, possibly originating in Israel.

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	7000.0	1400	dly	3	?	UiPHONE	J3E	Kiswahili, military?
ARSK	7070.0	1410	24	3	DRC	UiPHONE	J3Eu	Vernacular.
ARSK	7175.0	vt	dly	3	VoBM	UiBC	A3E	VoBM, Eritrea
ARSK	7180.0	vt	*	3	?	UiBC	A3E	Possibly VOBM or Addis Ababa. *19,20,23,24,,
ARSK	7200.0	vt	dly	3	SDN	Khartoum	A3E	Broadcast, Khartoum.

DARC 1 – Germany – DJ9KR (Uli) BC transmissions, IM products, harmonics = blue

CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	Remarks and Comments
DARC	3500,0	2110	08	03	CIS	UiLL	J3E-U	male person in Russian voice
DARC	3500,0	0930	14	03	E	UiLL	J3E-U	Spanish fishery
DARC	3500,0	vt	vd	03	HOL	UiLL	J3E-U	Dutch fishery heard 04 15 25 at 1616, 2053, 1047
DARC	3500,8	1744	17	03	CIS	UiLL	A3E	CIS pirates in AM, unstable carrier
DARC	3501,5	2020	28	03	CIS	UiLL	A3E	CIS pirates in AM, unstable carrier
DARC	3506,5	2104	09	03	CIS	UiLL	A3E	CIS pirates in AM, unstable carrier
DARC	3508,5	2102	09	03	CIS	UiLL	A3E	CIS pirates in AM, unstable carrier
DARC	3510,0	2123	04	03	CIS	UiLL	A3E	pirates, distorted modulation
DARC	3513,3	2022	06	03	CIS	UiLL	A3E	pirates, unstable carrier
DARC	3517,4	vt	vd	03	E	UiLL	J3E-L	Spanish fishery, SSB-LSB used, daily at various times
DARC	3519,0	2025	28	03		UiLL	J3E-U	English traffic, male person talking abt. flights
DARC	3520,0	1810	14	03	N.Eu	UiLL	J3E-U	Scandinavians
DARC	3521,0	2108	08	03	CIS	UiLL	A3E	CIS pirates in AM, unstable carrier
DARC	3527,0	2153	30	03	CIS	UiLL	A3E	CIS pirates in AM, unstable carrier
DARC	3535,0	2201	28	03	E	UiLL	J3E-U	Spanish fishery
DARC	3548,0	2038	15	03	CIS	UiLL	A3E	CIS pirates in AM, unstable carrier
DARC	3550,0	2033	02	03	G	UiLL	J3E-U	UK fishery
DARC	3550,0	0700	27	03	F	French Lis Amateurs	A3E	French lis amateurs, daily - --- AM in CW section is in contradiction to IARU Bandplan
DARC	3565,4	2314	09	03	CIS	UiLL	A3E	CIS pirates in AM, unstable carrier
DARC	3600,0	1637	dly	03	F	French Lis Amateurs	A3E	French lis amateurs, daily - --- AM in CW section is in contradiction to IARU Bandplan
DARC	6995,0	1714	17	03	E	UiLL	J3E-U	large net in Spanish male voice, splatters into ham band

CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	Remarks and Comments
DARC	7000,0	0922	07	03	I	UiILL	J3E-U	Italian pirates, SSB-USB
DARC	7000,0	0930	08	03	E	UiiLL	J3E-U	Spanish fishery
DARC	7000,0	vt	08	03	INS	UiILL	J3E	Indonesian pirates, using SSB-USB and alternatively SSB-LSB, daily - heard 08 at 1641, 1856
DARC	7000,0	1830	12	03	INS	UiILL	J3E	Indonesian pirates, using SSB-USB and alternatively SSB-LSB, daily
DARC	7000,0	vt	13	03		UiBC	A3E	slight music below carrier, 0947 - 1244
DARC	7000,0	1710	15	03	I	UiILL	J3E-L	Italian male traffic
DARC	7000,0	1509	18	03	I	UiILL	A3E	2 male persons in Italian voice, AM used
DARC	7000,0	1803	19	03	ISR	UiCAR	N0N	long lasting carrier
DARC	7000,0	1100	dly	03	I	UiILL	J3E-U	Italian pirates, SSB-USB
DARC	7000,0	vt	vd	03	E	UiILL	J3E-L	Spanish fishery, male to female person, heard 10 20 22 at 2129, 0850, 1805
DARC	7000,3	0020	13	03		UiILL	J3E-L	Spanish male traffic
DARC	7002,0	1633	21	03		UiCAR	N0N	carrier
DARC	7008,0	1730	17	03		UiCAR	N0N	carrier
DARC	7018,0	vt	vd	03	RUS	REA4	F1B	printer, is RUS Air Force Moscow
DARC	7032,0	vt	13	03	UKR	UiMUX	PSK2	rushing noise heard 0020 - 0105, is AT-3004-D, location North of Kiev
DARC	7035,0	1756	24	03	I	IZ7DPB, IW7BLR	J3E-L	SSB in CW section
DARC	7038,7	0046	dly	03	UKR	beacon D	A1A	beacon "D" - Sevastopol
DARC	7038,8	vt	vd	03	RUS	beacon P	A1A	beacon "P" - Kaliningrad
DARC	7038,9	vt	vd	03	RUS	beacon S	A1A	beacon "S" - Murmansk
DARC	7039,0	0704	vd	03	RUS	beacon C	A1A	beacon "C" - Moscow
DARC	7039,1	vt	vd	03	KGZ	beacon A	A1A	beacon "A" - Bishkek
DARC	7039,2	vt	vd	03	RUS	beacon F	A1A	beacon "F" - Vladyvostok
DARC	7039,3	vt	vd	03	RUS	beacon K	A1A	beacon "K" - Petropavlovsk
DARC	7039,4	1409	19	03	CZ	OK0EPB	A1A	"radio beacon driven by pendulum", dotter with time signals
DARC	7040,0	1409	19	03	CZ	OK0EU	A1A	"QRP beacon" of OK-QRP Club
DARC	7054,0	1800	06	03	RUS	RUS Navy	F1B	fast reversals, clear audio - location is Moscow
DARC	7100,0	1743	08	03	ERI	VOBME	A3E	Ar px S9, weak modulation, found // 7165
DARC	7100,0	1540	11	03	ETH	Govt. Jam	JAM	white noise jammer
DARC	7100,0	1540	11	03	ERI	VOBME	A3E	under wn-jammer
DARC	7100,0	1656	25	03	ETH	Govt. Jam	JAM	heavy white noise jammer
DARC	7100,0	1624	dly	03	ETH	Govt. Jam	JAM	white noise jammer
DARC	7100,0	1624	dly	03	ERI	VOBME	A3E	covered by white noise jammer
DARC	7100,0	1510	vd	03	BRM	R.Myanmar	A3E	BC and music, not audible in EU, strong in VK, 4S7 and JA
DARC	7105,0	1727	21	03		UiMUX	XXX	multiplex 8 channels found - report DL1ZG
DARC	7105,0	2220	29	03	TWN	Sound of Hope	A3E	audible under R.China - report DL7ET
DARC	7105,0	2220	29	03	CHN	Soh Xi Wang Zhi Sheng	A3E	audible under R.China - report DL7ET
DARC	7110,0	1204	03	03	BRM	R.Myanmar	A3E	Radio Myanmar, audible in Japan
DARC	7110,0	0005	31	03	BRM	R.Myanmar	A3E	typical music, S8, heard by DJ9KR in Tuebingen, Southern Germany
DARC	7110,0	1540	vd	03	ERI	VOBME	A3E	under heavy jam by ETH
DARC	7110,0	1540	vd	03	ETH	Govt. Jam	JAM	heavy white noise jam
DARC	7115,0	1630	vd	03	ERI	VOBME	A3E	is active
DARC	7115,0	1630	vd	03	ETH	Govt. Jam	JAM	white noise jammer on VOBME
DARC	7120,0	0215	07	03	RUS	Voz de Rusia	A3E	Spanish px, splattering vy much down into ham band, rocking carrier
DARC	7120,0	vt	18	03	ERI	VOBME	A3E	under white noise jammer, heard 1610 -

CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	Remarks and Comments
								1645
DARC	7120,0	vt	18	03	ETH	Govt. Jam	JAM	white noise jammer, heard 1610 - 1645
DARC	7120,0	1701	30	03	ERI	VOBME	A3E	under wn-jammer
DARC	7120,0	1701	30	03	ETH	ETH Govt. Jam	JAM	white noise jammer
DARC	7120,0	1540	vd	03	ERI	VOBME	A3E	under heavy wn jammer from ETH
DARC	7120,0	1540	vd	03	ETH	Govt. Jam	JAM	heavy wn jammer from ETH
DARC	7125,0	1551	03	03	I	UiILL	J3E-L	reproducing music on Italian QSO, S9+20dB
DARC	7137,0	1834	04	03		UiPTR	F1B	unid printer
DARC	7160,0	1733	08	03	ETH	Govt. Jam	JAM	heavy white noise jam - report DL1ZG
DARC	7160,0	1733	08	03	ERI	VOBME	A3E	under heavy white noise jam - report DL1ZG
DARC	7160,0	1625	vd	03	ERI	VOBME	A3E	under heavy jam by ETH
DARC	7160,0	1625	vd	03	ETH	Govt. Jam	JAM	heavy white noise jam
DARC	7165,0	1743	08	03	ERI	VOBME	A3E	Ar px S9+20dB, found // 7100
DARC	7165,0	1644	vd	03	ERI	VOBME	A3E	under heavy jam by ETH
DARC	7165,0	1644	vd	03	ETH	Govt. Jam	JAM	heavy jam by ETH
DARC	7165,0	vt	vd	03	ERI	VOBME	A3E	seems to be main tx-ing frequency
DARC	7170,0	1754	16	03	ERI	VOBME	A3E	typical HOA music
DARC	7175,0	1540	11	03	ETH	Govt. Jam	JAM	white noise jammer
DARC	7175,0	1610	18	03	ERI	VOBME	A3E	under white noise jammer
DARC	7175,0	1610	18	03	ETH	Govt. Jam	JAM	white noise jammer
DARC	7175,0	1638	20	03	ERI	VOBME	A3E	under white noise jammer
DARC	7175,0	vt	vd	03	ETH	Govt. Jam	JAM	heard 01 15 at 1540, 1455 - heavy jam
DARC	7179,0	2050	01	03	RUS	V.o.Russia	A3E	is IM
DARC	7179,0	vt	08	03	RUS	V.o.Russia	A3E	IM 6090 x 1089, heard 1950 - 2100, tx-er Krasnodar-Armavir Tbilisskaya, IM also found on 5001 - already heard/reported 31 Oct - Nov 2010
DARC	7180,0	1540	02	03	ERI	VOBME	A3E	under heavy wn jammer from ETH
DARC	7180,0	1547	03	03	ETH	Govt. Jam	A3E	under heavy jam by ETH
DARC	7180,0	vt	12	03	ERI	VOBME	A3E	Ar px heard 1743 - 1804 (s/off with jingle and song "Eritriya") - is NOT CRI Bulgarian/Czech spurious
DARC	7180,0	1610	18	03	ETH	Govt. Jam	JAM	white noise jammer
DARC	7185,0	1430	07	03	ERI	VOBME	A3E	covered by white noise jammer
DARC	7185,0	vt	07	03	ERI	VOBME	A3E	heard 1750 - 1801 s/off, 1759: "Eritriya", Ar px S9+35dB
DARC	7189,7	0215	07	03	CLN	SLBC Sri Lanka	A3E	typical music
DARC	7189,7	vt	13	03	CLN	SLBC Sri Lanka	A3E	heard 0020 - 0105
DARC	7190,0	1618	01	03	ERI	VOBME	A3E	under heavy jam by ETH
DARC	7190,0	1618	01	03	ETH	Govt. Jam	A3E	under heavy jam by ETH
DARC	7192,0	vt	vd	03		UiMUX	PSK2	AT-3004-D, heard 01 - 23 at 1702 - 2122 - report DL1ZG
DARC	7195,0	1443	26	03	ERI	VOBME	A3E	jingle, found // to R.Ethiopia on the same QRG
DARC	7200,0	1618	01	03	ETH	R.Ethiopia	A3E	En px

CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	Remarks and Comments
DARC	7200,0	1618	01	03	AFG	Ntl. Radio of Afghanistan	A3E	Indian music
DARC	7200,0	2124	01	03	IRN	IRIB	A3E	Japanese px S9+25dB
DARC	7200,0	2058	02	03	IRN	IRIB	A3E	s/on with National Anthem, then px in Japanese voice, S9+20dB signal, s/off 2157 - 1st heard 30 October for HFCC B11-saison
DARC	7200,0	0335	03	03	SDN	R.Omdurman	A3E	Ar px, found // with Voice of Justice (IRIB)
DARC	7200,0	1547	03	03	ETH	R.Ethiopia	A3E	En px, crackling noise
DARC	7200,0	2126	03	03	IRN	IRIB	A3E	Japanese px, S9+20dB
DARC	7200,0	2142	13	03	IRN	IRIB	A3E	Japanese px
DARC	7200,0	0330	14	03	IRN	Voice of Justice / IRIB	A3E	s/on with National Anthem, then px in English voice - 1st heard 30 October for HFCC B11-saison, sked: 0330 - 0430
DARC	7200,0	1755	15	03	SDN	R.Omdurman	A3E	Arabic px
DARC	7200,0	2109	16	03	IRN	IRIB	A3E	Japanese px
DARC	7200,0	1817	18	03	SDN	R.Omdurman	A3E	Ar px
DARC	7200,0	1520	19	03		UiBC	A3E	Ar px
DARC	7200,0	1520	19	03		UiBC	A3E	HOA music
DARC	7200,0	1658	21	03	ETH	R. Ethiopia	A3E	ann.: "External Service of R.Ethiopia", found // with VOBME
DARC	7200,0	1658	21	03	ERI	VOBME	A3E	at 1700 s/on French px
DARC	7200,0	1816	27	03	RUS	Voice of Russia	A3E	Russian px, splatters from 7212,5
DARC	7200,0	1827	27	03	TUR	Stimme der Türkei	A3E	Ge px, splatters from 7210
DARC	7200,0	0240	28	03	SDN	R.Omdurman	A3E	Quran recitals
DARC	7200,0	0429	28	03	IRN	IRIB	A3E	jingle
DARC	7200,0	1745	28	03		UiBC	A3E	S9+25dB-signal, weak modulation, Arabic language
DARC	7200,0	vt	vd	03	AFG	Ntl. Radio of Afghanistan	A3E	Indian music, English ann.: "This is National Radio of Afghanistan", ann. tx-ing QRG "6100 kHz", heard 1520 - 1630 s/off, S9+15dB
	7200,0	vt	vd	03		UiBC	A3E	splatters from 7205 heard all month 1700 - 2123 - report DL1ZG
DARC	7210,0	0106	28	03	RUS	Voz de Russia	A3E	Spanish px, splattering vy much down into ham band
DARC	7210,0	0322	dly	03	RUS	Voz de Russia (V.o.Russia)	A3E	Sp px, compl. distorted and wide banded, FM, S9+30dB, splatters down into ham band
DARC	7210,7	0106	13	03	RUS	Voz de Rusia	A3E	Spanish px, harmful splatters till 7190
DARC	10101,0	2003	23	03	Af	UiILL	J3E-U	pirates, African tribal language
DARC	10102,0	2126	04	03	CTI	UiILL	J3E-U	pirates off the coast of Ivory Coast, West Africa
DARC	10121,3	1638	20	03	S.As	UiILL	J3E-U	2 male persons, S.As language
DARC	10131,0	2144	13	03	MRC	UiILL	J3E-U	male net in Arabic
DARC	10133,0	1638	20	03	S.As	UiILL	J3E-U	2 male persons, S.As language
DARC	10135,6	vt	vd	03		UiILL	J3E-U	unid pirates heard 02 03 at 2023, 2032
DARC	10147,5	vt	12	03		UiBC	A3E	carrier unstable, language poss. Russian - heard 1715 - 1730 s/off
DARC	10147,5	1715	12	03		UiBC	A3E	IM product
DARC	10150,0	1805	06	03		UiILL	J3E-U	unid male voices
DARC	10150,0	1952	26	03	MRC	UiILL	J3E-U	Moroccan fishery
DARC	10150,0	1813	dly	03	E	UiILL	J3E-U	Spanish and Moroccan fishery
DARC	14000,0	1521	02	03	INS	UiILL	J3E-U	Indonesian pirate net
DARC	14000,0	0919	dly	03	MRC	UiILL	J3E-U	Moroccan fishery

CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	Remarks and Comments
DARC	14000,0	1800	dly	03	INS	UiILL	J3E-U	Far East pirates, singing and fooling around, heard 1500, 1800
DARC	14015,0	0630	30	03	E	UiILL	J3E-U	2 Spanish male persons - report OE3GSA
DARC	14054,0	0823	14	03		UiCW	A1A	slow dots, 44 dots / minute
DARC	14100,0	1610	28	03	S.As	Sea Wave Radar	XXX	chirps of Sea Wave Radar 14075 - 14125, sounding like Codar
DARC	14191,6	0815	14	03		UiILL	J3E-U	S.As male voices, QTE 230 degs. (long path?)
DARC	14295,0	vt	22	03	CHN	Firedrake Jammer	JAM	Hainan firedrake music jammer, distorted mod., 14290 - 14312 - reports HS0ZFL, OE3GSA
DARC	14295,1	0834	12	03	TJK	R.Tajikistan	A3E	S8-signal, is 3rd harmonic
DARC	18105,0	1639	05	03	E	UiILL	J3E-U	Spanish fishery
	18175,0	0847	18	03		UiOTHR	FMCW	chirp. pulses 25 kHz spread, reaching into hamband
DARC	21000,0	1510	03	03	UKR	UiILL	J3E-U	pirates in Russian voice, location Sevastopol
DARC	21000,0	1059	05	03	E	UiILL	J3E-U	Spanish fishery
DARC	21000,0	0940	25	03	MKD	Hotel-351	J3E-U	male voice, ident "Hotel-351", location Skopje
DARC	21000,0	vt	28	03		UiOTHR	FMCW	report DG0JBJ
DARC	21000,0	vt	28	03		UiOTHR	FMCW	report DG0JBJ
DARC	21000,0	0814	29	03	F.Ea	UiILL	J3E-U	Far East pirates
DARC	21000,0	1425		03	INS	UiILL	J3E-U	pirates from Indonesia
DARC	21000,0	vt	dly	03	CIS	UiILL	J3E-U	Vocoder YAKHTA, encrypted speech
DARC	21010,0	vt	23	03		UiOTHR	FMCW	report DG0JBJ
DARC	21030,0	vt	21	03		UiOTHR	FMCW	report DG0JBJ
DARC	21030,0	vt	28	03		UiOTHR	FMCW	report DG0JBJ
DARC	21050,0	vt	28	03		UiOTHR	FMCW	mirror of 21100, report DG9JBJ
DARC	21070,0	vt	28	03		UiOTHR	FMCW	report DG0JBJ
DARC	21100,0	1520	19	03		UiOTHR	FMCW	OTH S9+30dB
DARC	21100,0	vt	19	03		UiOTHR	FMCW	report DG0JBJ
DARC	21100,0	1056	22	03		UiILL	F3E	unid pirates in F3E (FM), QTE 220 degs.
DARC	21100,0	vt	22	03		UiOTHR	FMCW	report DG0JBJ
DARC	21100,0	vt	28	03		UiOTHR	FMCW	report DG0JBJ
DARC	21105,0	vt	25	03		UiOTHR	FMCW	report DG0JBJ
DARC	21105,0	vt	28	03		UiOTHR	FMCW	report DG0JBJ
DARC	21120,0	0846	30	03	E	UiILL	J3E-U	2 Spanish male persons
DARC	21130,0	vt	28	03	CYP	UiOTHR	FMCW	report DG0JBJ
DARC	21135,0	vt	28	03		UiOTHR	FMCW	report DG0JBJ
DARC	21150,0	vt	27	03		UiOTHR	FMCW	report DG0JBJ
DARC	21150,0	vt	28	03		UiOTHR	FMCW	mirror of 21100, report DG0JBJ
DARC	21150,0	vt	28	03		UiOTHR	FMCW	mirror of 21200, report DG0JBJ
DARC	21160,0	vt	23	03		UiOTHR	FMCW	report DG0JBJ
DARC	21190,0	vt	24	03		UiOTHR	FMCW	report DG0JBJ
DARC	21190,0	vt	26	03		UiOTHR	FMCW	report DG0JBJ
DARC	21200,0	vt	27	03		UiOTHR	FMCW	report DG0JBJ
DARC	21200,0	vt	28	03		UiOTHR	FMCW	report DG0JBJ
DARC	21215,0	vt	28	03		UiOTHR	FMCW	report DG0JBJ
DARC	21250,0	vt	28	03		UiOTHR	FMCW	report DG0JBJ
DARC	21270,0	vt	26	03		UiOTHR	FMCW	report DG0JBJ
DARC	21270,0	vt	28	03		UiOTHR	FMCW	mirror of 21200, report DG0JBJ
DARC	21270,0	vt	31	03		UiOTHR	FMCW	report DG0JBJ
DARC	21290,0	vt	09	03		UiOTHR	FMCW	heard 0827 - 0828 s/off, S9+30dB
DARC	21300,0	vt	19	03		UiOTHR	FMCW	report DG0JBJ
DARC	21300,0	vt	21	03		UiOTHR	FMCW	report DG0JBJ
DARC	21305,0	vt	28	03		UiOTHR	FMCW	report DG0JBJ
DARC	21310,0	vt	23	03		UiOTHR	FMCW	report DG0JBJ
DARC	21315,0	vt	26	03		UiOTHR	FMCW	report DG0JBJ
DARC	21340,0	vt	22	03		UiOTHR	FMCW	mirror of 21100
DARC	21370,0	vt	23	03		UiOTHR	FMCW	report DG0JBJ
DARC	21370,0	vt	28	03		UiOTHR	FMCW	report DG0JBJ
DARC	21390,0	vt	22	03		UiOTHR	FMCW	mirror of 21100
DARC	21400,0	vt	20	03		UiOTHR	FMCW	report DG0JBJ

CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	Remarks and Comments
DARC	21400,0	vt	28	03		UiOTHR	FMCW	report DG0JBJ
DARC	21450,0	vt	21	03		UiOTHR	FMCW	report DG0JBJ
DARC	28005,0	1824	30	03	B	UiILL	A3E	Brazilian CB-ers in AM
DARC	28015,0	1502	08	03	F.Ea	UiILL	A3E	Far East pirates
DARC	28015,0	1824	30	03	B	UiILL	A3E	Brazilian CB-ers in AM
DARC	28022,0	1824	30	03	B	UiILL	A3E	Brazilian CB-ers in AM, location Paraná state
DARC	28025,0	1502	08	03	F.Ea	UiILL	A3E	Far East pirates
DARC	28035,0	1104	21	03	B	UiILL	A3E	Brazilian pirates in AM
DARC	28055,0	1844	27	03	RUS	Taxi	F3E	female at base station strong, male in taxi weaker
DARC	28055,0	1844	28	03	RUS	Taxi	F3E	taxi, location Moscow, heard via remote station Moscow area, very strong!
DARC	28065,0	1104	21	03	B	UiILL	A3E	Brazilian pirates in AM
DARC	28065,0	1844	27	03	RUS	Taxi	F3E	female at base station strong, male in taxi weaker
DARC	28070,0	vt	11	03		UiOTHR	FMCW	report DG0JBJ
DARC	28080,0	vt	06	03		UiOTHR	FMCW	report DG0JBJ
DARC	28100,0	vt	01	03		UiOTHR	FMCW	report DG0JBJ
DARC	28100,0	vt	10	03		UiOTHR	FMCW	report DG0JBJ
DARC	28100,0	vt	24	03		UiOTHR	FMCW	report DG0JBJ
DARC	28100,0	vt	25	03		UiOTHR	FMCW	1215 - 1340, report DG0JBJ
DARC	28100,0	vt	26	03	TUR	UiOTHR	FMCW	report DG0JBJ
DARC	28105,0	1924	23	03	B	UiILL	A3E	Brazilian CB-ers in AM
DARC	28115,0	0935	08	03	E	UiILL	A3E	Spanish CB-ers
DARC	28115,0	1844	27	03	RUS	Taxi	F3E	female at base station strong, male in taxi weaker
DARC	28115,0	1824	30	03	B	UiILL	A3E	Brazilian CB-ers in AM
DARC	28135,0	1757	18	03	B	UiILL	A3E	Brazilian pirates in AM
DARC	28145,0	vt	vd	03	B	UiILL	A3E	Brazilian pirates in AM, heard 21 30 at 1105, 1826
DARC	28155,0	1844	27	03	RUS	Taxi	F3E	female at base station strong, male in taxi weaker
DARC	28175,0	1756	18	03	B	UiILL	A3E	Brazilian pirates in AM
DARC	28175,0	1844	27	03	RUS	Taxi	F3E	female at base station strong, male in taxi weaker
DARC	28180,0	vt	07	03	TUR	UiOTHR	FMCW	report DG0JBJ - mirror of 28230
DARC	28185,0	1317	23	03	S.As	UiILL	A3E	S.As male voice
DARC	28200,0	vt	05	03		UiOTHR	FMCW	report DG0JBJ
DARC	28200,0	vt	08	03	TUR	UiOTHR	FMCW	report DG0JBJ
DARC	28200,0	0938	30	03	RUS	UiILL	J3E-U	Vocoder YAKHTA, encrypted speech
DARC	28210,0	vt	11	03		UiOTHR	FMCW	report DG0JBJ
DARC	28215,0	1758	18	03	B	UiILL	A3E	Brazilian pirates in AM
DARC	28215,0	0844	27	03	F.Ea	UiILL	A3E	Far East pirates
DARC	28220,0	vt	20	03		UiOTHR	FMCW	report DG0JBJ
DARC	28230,0	vt	07	03	TUR	UiOTHR	FMCW	report DG0JBJ
DARC	28235,0	1805	18	03	B	UiILL	A3E	Brazilian pirates in AM
DARC	28235,0	1844	27	03	RUS	Taxi	F3E	female at base station strong, male in taxi weaker
DARC	28245,0	1317	23	03	CIS	UiTaxi	F3E	female in Russian voice
DARC	28250,0	vt	11	03		UiOTHR	FMCW	report DG0JBJ
DARC	28255,0	1749	18	03	B	UiILL	A3E	Brazilian pirates in AM
DARC	28255,0	1844	27	03	RUS	Taxi	F3E	female at base station strong, male in taxi weaker
DARC	28260,0	vt	25	03		UiOTHR	FMCW	report DG0JBJ
DARC	28280,0	vt	07	03	TUR	UiOTHR	FMCW	report DG0JBJ - mirror of 28230
DARC	28295,0	1844	27	03	RUS	Taxi	F3E	female at base station strong, male in taxi weaker
DARC	28300,0	vt	01	03		UiOTHR	FMCW	report DG0JBJ - mirror of 28350
DARC	28300,0	vt	07	03		UiOTHR	FMCW	report DG0JBJ - mirror of 28350
DARC	28305,0	vt	vd	03	B	UiILL	A3E	Brazilian pirates in AM, heard 18 21 at 1756, 1100
DARC	28330,0	vt	08	03		UiOTHR	FMCW	report DG0JBJ
DARC	28350,0	vt	01	03		UiOTHR	FMCW	report DG0JBJ
DARC	28350,0	vt	01	03		UiOTHR	FMCW	report DG0JBJ - mirror of 28350
DARC	28350,0	vt	06	03		UiOTHR	FMCW	report DG0JBJ

CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	Remarks and Comments
DARC	28350,0	vt	07	03		UiOTHR	FMCW	report DG0JBJ
DARC	28385,0	1844	27	03	RUS	Taxi	F3E	female at base station strong, male in taxi weaker
DARC	28390,0	vt	30	03		UiOTHR	FMCW	report DG0JBJ
DARC	28400,0	vt	07	03		UiOTHR	FMCW	report DG0JBJ - mirror of 28350
DARC	28400,0	vt	10	03	TUR	UiOTHR	FMCW	report DG0JBJ
DARC	28400,0	vt	11	03	TUR	UiOTHR	FMCW	report DG0JBJ
DARC	28400,0	vt	27	03		UiOTHR	FMCW	report DG0JBJ
DARC	28410,0	vt	23	03		UiOTHR	FMCW	report DG0JBJ
DARC	28450,0	vt	01	03		UiOTHR	FMCW	report DG0JBJ - mirror of 28500
DARC	28500,0	vt	26	03		UiOTHR	FMCW	report DG0JBJ
DARC	28520,0	vt	10	03		UiOTHR	FMCW	report DG0JBJ
DARC	28530,0	vt	23	03		UiOTHR	FMCW	report DG0JBJ
DARC	28550,0	vt	01	03		UiOTHR	FMCW	report DG0JBJ - mirror of 28500
DARC	28550,0	vt	08	03		UiOTHR	FMCW	report DG0JBJ
DARC	28600,0	vt	10	03	TUR	UiOTHR	FMCW	report DG0JBJ
DARC	28600,0	vt	31	03		UiOTHR	FMCW	report DG0JBJ
DARC	28610,0	vt	11	03		UiOTHR	FMCW	report DG0JBJ
DARC	28615,0	1844	27	03	RUS	Taxi	F3E	female at base station strong, male in taxi weaker
DARC	28620,0	vt	07	03		UiOTHR	FMCW	report DG0JBJ
DARC	28620,0	vt	11	03		UiOTHR	FMCW	report DG0JBJ
DARC	28665,0	1502	08	03	F.Ea	UiILL	A3E	Far East pirates
DARC	28725,0	1844	27	03	RUS	Taxi	F3E	female at base station strong, male in taxi weaker
DARC	28740,0	vt	11	03		UiOTHR	FMCW	report DG0JBJ
DARC	28750,0	vt	20	03		UiOTHR	FMCW	report DG0JBJ
DARC	28760,0	vt	10	03		UiOTHR	FMCW	report DG0JBJ
DARC	28760,0	vt	23	03		UiOTHR	FMCW	report DG0JBJ
DARC	28790,0	1844	27	03	RUS	Taxi	F3E	female at base station strong, male in taxi weaker
DARC	28800,0	vt	07	03		UiOTHR	FMCW	report DG0JBJ - mirror of 28850
DARC	28810,0	vt	30	03		UiOTHR	FMCW	report DG0JBJ
DARC	28825,0	1844	27	03	RUS	Taxi	F3E	female at base station strong, male in taxi weaker
DARC	28825,0	1844	27	03	RUS	Taxi	F3E	female at base station strong, male in taxi weaker
DARC	28850,0	vt	07	03		UiOTHR	FMCW	report DG0JBJ
DARC	28855,0	1844	27	03	RUS	Taxi	F3E	female at base station strong, male in taxi weaker
DARC	28875,0	1844	27	03	RUS	Taxi	F3E	female at base station strong, male in taxi weaker
DARC	28880,0	vt	10	03		UiOTHR	FMCW	report DG0JBJ
DARC	28900,0	vt	04	03		UiOTHR	FMCW	report DG0JBJ
DARC	28900,0	vt	26	03		UiOTHR	FMCW	report DG0JBJ
DARC	28915,0	1844	27	03	RUS	Taxi	F3E	female at base station strong, male in taxi weaker
DARC	28950,0	vt	08	03		UiOTHR	FMCW	report DG0JBJ
DARC	28970,0	vt	05	03		UiOTHR	FMCW	report DG0JBJ
DARC	29000,0	vt	08	03		UiOTHR	FMCW	report DG0JBJ - mirror of 28950
DARC	29000,0	vt	24	03		UiOTHR	FMCW	report DG0JBJ
DARC	29015,0	1844	27	03	RUS	Taxi	F3E	female at base station strong, male in taxi weaker
DARC	29020,0	vt	10	03		UiOTHR	FMCW	report DG0JBJ
DARC	29070,0	vt	06	03		UiOTHR	FMCW	report DG0JBJ
DARC	29100,0	vt	20	03		UiOTHR	FMCW	report DG0JBJ
DARC	29110,0	vt	01	03		UiOTHR	FMCW	report DG0JBJ
DARC	29120,0	vt	06	03		UiOTHR	FMCW	report DG0JBJ
DARC	29145,0	1844	27	03	RUS	Taxi	F3E	female at base station strong, male in taxi weaker
DARC	29155,0	1844	27	03	RUS	Taxi	F3E	female at base station strong, male in taxi weaker
DARC	29160,0	vt	11	03		UiOTHR	FMCW	report DG0JBJ
DARC	29170,0	vt	05	03		UiOTHR	FMCW	report DG0JBJ
DARC	29200,0	vt	29	03		UiOTHR	FMCW	report DG0JBJ
DARC	29270,0	vt	08	03		UiOTHR	FMCW	report DG0JBJ - mirror of 29320

CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	Remarks and Comments	
DARC	29320,0	vt	08	03		UiOTHR	FMCW	report DG0JBJ	
DARC	29360,0	vt	06	03		UiOTHR	FMCW	report DG0JBJ	
DARC	29370,0	vt	08	03		UiOTHR	FMCW	report DG0JBJ - mirror of 29320	
DARC	29530,0	vt	25	03		UiOTHR	FMCW	report DG0JBJ	
DARC	29600,0	vt	10	03	TUR	UiOTHR	FMCW	report DG0JBJ	
DARC	29600,0	vt	25	03		UiOTHR	FMCW	report DG0JBJ	
DARC	29610,0	vt	11	03		UiOTHR	FMCW	report DG0JBJ	
DARC	29650,0	vt	31	03		UiOTHR	FMCW	report DG0JBJ	
DARC	29670,0	vt	10	03		UiOTHR	FMCW	report DG0JBJ	
DARC	29670,0	vt	25	03		UiOTHR	FMCW	report DG0JBJ	

DARC 2 – Germany - DK2OM (Wolf)

PSE observe:

FSK transmissions -> center frequency between mark and space

PSK transmissions -> center frequency

ALE (MIL188-141A) -> USB frequency – exclusive bands: black – shared bands: blue

SH = shift --- SP = spread (radar) – SPS = sweeps/sec (radar)

DARC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DARC	1812,0	vt	vd	03	POL		A3E			Polish “PIP” – 10 tones – navigation system - North-Poland – Baltic coast - POL Navy – legal operation
DARC	1876,8	ady	dly	03	G		PSK8	2400	2400	Stanag4285 - 1200 bps long - Scotland
DARC	1881,4	ady	dly	03	F		QPSK	100	100	BC-PSK – Radio Navigation – Nantes - France
DARC	1896,5	ady	dly	03	D		PSK8	2400	2400	Stanag4285 - 600 bps long - German Navy
DARC	3500,0	vt	dly	03	TUR	no ITU	FSK8	125	1750	ALE, “2015” “2016” “1020” “3010”- Turkish Red Crescent - legal
DARC	3503,4	2030	12	03	ISR		PSK4	75	2200	MIL-188-10A hybrid modem
DARC	3503,5	vt	dly	03	G	no ITU	FSK8	125	1750	ALE – “XSS” “XPU” – British MIL Tascomm
DARC	3509,7	1959	21	03	ISR		PSK4	75	2600	MIL-188-10A hybrid modem
DARC	3510,0	vt	dly	03	ALG	no ITU	FSK8	125	1750	ALE, “JE30” “PT30”
DARC	3518,8	1643	08	03	S		PSK4	75	2300	Link11 – CLEW – area of Malmo – South Sweden
DARC	3527,0	1900	dly	03	RUS		F1B	50	200	Severomorsk - daily
DARC	3532,0	2105	11	03	ALG	no ITU	FSK8	125	1750	ALE, “UN3” “VQ30”
DARC	3532,0	vt	dly	03	ALG		FSK8	125	1750	ALE, “UN30” “DJ35” – Algerian MIL
DARC	3533,0	vt	dly	03	E	no ITU	FSK8	125	1750	ALE, “TYBBI” “TYVC1” “TCS” “TYVV1” - Spanish Guardia Civil
DARC	3542,0	1952	13	03	RUS		PSK2	12	2600	AT3004D - submode idling and traffic - St. Petersburg
DARC	3545,0	vt	dly	03	ALG	no ITU	FSK8	125	1750	ALE, “FL49” “FL57” “PT50” - ALG MIL + voice traffic USB and scrambler
DARC	3550,0	2000	11	03	SHIP		PSK2	120	2600	AT3004D – traffic and submodem idle - ship Black Sea
DARC	3552,0	2120	19	03	CIS		F1B	50	200	
DARC	3553,8	ady	dly	03	TUR		PSK8	2400	2400	Stanag4285 – TUR MIL - Ankara
DARC	3557,0	1958	03	03	RUS		F1B	75	250	Vologda
DARC	3558,0	vt	dly	03			FSK8	125	1750	ALE, “102” “206”
DARC	3579,0	2250	01	03	RUS		F1B	75	250	Kaliningrad
DARC	3581,0	1644	05	03	RUS		PSK2	120	2600	AT3004D - Kaliningrad
DARC	3584,5	vt	dly	03		no ITU	FSK8	125	1750	ALE, “SM5” “HFN”
DARC	3585,0	1700	dly	03	TWN	HLL	F1C			120 rpm, IOC 576, Wxfax - legal!

DARC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DARC	3587,0	vt	dly	03	E	no ITU	FSK8	125	1750	ALE, "TVV" "TXX" - Spanish Guardia Civil
DARC	3590,0	vt	dly	03	PAK	no ITU	FSK8	125	1750	ALE, "KW" "ZULFIQUARI" "KHAIBAR" "SAIFI" "NRS"- Pakistan Navy
DARC	3591,0	2017	14	03	GEO		PSK2	120	2600	AT3004D - Georgia
DARC	3593,7	vt	dly	03	UKR	D	A1A			beacon "D" – RUS Navy Sevastopol
DARC	3593,9	vt	dly	03	RUS	S	A1A			beacon "S" – RUS Navy Murmansk
DARC	3595,0	vt	dly	03	D	no ITU	FSK8	125	1750	ALE, „ZLST“ „ZPRI“ „ZSHO“ „ZBOR“ „ZEMD“ „ZHEL“ „ZKNI“ „ZBOR“ „BPLEZS“ German customs – North-Germany
DARC	3596,0	vt	dly	03	HRV	9A0ALE	FSK8	125	1750	Croatian emergency ALE-net --- for info!
DARC	3601,0	vt	vd	03	D	DA0EC	PSK8	2000	2000	RFSM 8000 – amateur emergency net - Berlin - legal operation - just for info!!!
DARC	3602,5	vt	dly	03	AUT	OE9XRK	PSK2/4	1800	1800	Pactor4 – Mailbox OE9XRK – just for info!
DARC	3603,0	vt	dly	03	ALG?	no ITU	FSK8	125	1750	ALE, "PT01JL94" "JL05JL94"
DARC	3610,0	vt	dly	03	D		PSK8	200	500	German APRS Net in Robust Packet - just for info!
DARC	3617,0	vt	dly	03	HRV	9A5EX	FSK8	125	1750	ALE, "9A5EX1P" – HAM-ALE - just for info
DARC	3622,5	2000	dly	03	J	JMH	F1C			Tokyo Meteo – 120 rpm – IOC576 – daily, legal!!!
DARC	3626,0	vt	dly	03	HRV	9A5EX	FSK8	125	1750	ALE, "9A5EX" – just for info
DARC	3642,0	1850	06	03	RUS		PSK2	120	2600	AT3004D – Velikije Luki
DARC	3658,0	2000	dly	03	UKR		A1A			series of "V" - Donetsk
DARC	3660,0	vt	dly	03	ALG		FSK8	125	1750	ALE, "UN20" XT20" - Algerian MIL
DARC	3751,5	vt	dly	03	POL		FSK8	125	1750	ALE, "LA7" "MI3"
DARC	3756,0	ady	dly	03	UKR		A3E			UKR – pip – 10 tones – navigation system
DARC	3761,5	vt	dly	03	POL	no ITU	FSK8	125	1750	ALE, "NI9" "AB2" – Polish military
DARC	3782,0	ady	dly	03	POR	CTP	F1B	75	850	POR Navy headquarter Lisbon
DARC	7000,0	1700	07	03	F		NON			long lasting carrier, Paris – also 13.03.12 at 1150 utc
DARC	7000,0	0811	14	03	E	EA1HBX	A1A			EA1HBX beacon – not coordinated with IARU Region 1
DARC	7000,0	1740	16	03	CHN		FMCW		32k	Chinese Coastal Radar – 2.6 sps – 7000 – 7032 kHz
DARC	7000,0	2130	18	03	CHN		FMCW		175k	CHN OTH Radar – 43.5 sps – 6850 – 7025 kHz
DARC	7000,0	1620	22	03	ISR		NON			carrier 7000.004 kHz – even audible in Australia
DARC	7000,0	1702	25	03	CHN		FMCW		32k	Chinese Coastal Radar – 2.6 sps – 7000 – 7032 kHz
DARC	7000,0	2015	28	03	RUS		noise			white noise – 6994 – 7004 kHz – Moscow
DARC	7001,7	1808	25	03	CHN		PSK8	2400	2400	bursts – MIL-188-110A variant
DARC	7001,8	0912	07	03			PSK4	75	2300	Link11 - CLEW
DARC	7002,0	2335	10	03	IND		A1A			only dashes, weak signal, South India
DARC	7002,0	0800	14	03	GEO		PSK2	120	2600	AT3004D - Georgia
DARC	7003,0	1828	13	03						frequency hopper
DARC	7005,5	0825	17	03	UKR		F1B	40.5	250	system "Frost1" - Sevastopol
DARC	7008,0	1842	28	03						frequency hopper
DARC	7032,0	1649	12	03	UKR		PSK2	120	2600	AT3004D – north of Kiev
DARC	7038,7	ady	dly	03	UKR	D	A1A			Cluster beacon – Sevastopol RUS Navy – "RCV"
DARC	7038,8	ady	dly	03	RUS	P	A1A			Cluster beacon – Kaliningrad RUS Navy – "RMP"

DARC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DARC	7038,9	ady	dly	03	RUS	S	A1A			Cluster beacon – Murmansk RUS Navy – „RIT“
DARC	7039,0	ady	dly	03	RUS	C	A1A			Cluster beacon - Moscow RUS Navy - “RIW”
DARC	7039,1	vt	dly	03	KGZ	A	A1A			Cluster beacon – Bishkek RUS Navy – “RJH25”
DARC	7039,2	ady	dly	03	RUS	F	A1A			Cluster beacon - Vladivostok RUS Navy - “RJS”
DARC	7039,3	vt	dly	03	RUS	K	A1A			Cluster beacon - Petropavlovsk Kamchatskiy - RUS Navy - Pacific fleet - “RCC”
DARC	7039,4	1437	03	03	RUS	M	A1A			Cluster beacon – Magadan RUS Navy – „RTS“
DARC	7040,5	vt	dly	03	HRV	9A5EX	FSK8	125	1750	ALE, “9A5EX” - just for info!
DARC	7049,5	vt	dly	03	F	F4BXW1	FSK8	125	1750	ALE, “F4BXW1” - just for info!
DARC	7050,0	1647	20	03	CHN		FMCW		54k	CHN OTH Radar – 43.5 sps – 7050.0 – 7104 kHz
DARC	7054,0	vt	dly	03	RUS		F1B	50	200	CIS50-50 - RUS Navy Moscow
DARC	7056,0	2030	08	03	CHN		FMCW		94k	CHN OTH Radar – 43.5 sps – 7056.0 – 7150 kHz
DARC	7060,0	2129	18	03	CHN		FMCW		32k	Chinese Coastal Radar – 2.6 sps – 7060 – 7092 kHz
DARC	7065,0	vt	dly	03	HRV	9A5EX	FSK8	125	1750	ALE, “9A5EX” - just for info!
DARC	7083,5	2036	08	03						frequency hopper
DARC	7084,0	1853	27	03	CHN		FMCW		32k	CHN Coastal Radar – 2.6 sps – 7084 – 7116 kHz
DARC	7089,7	2229	11	03	MEa		PSK8	2400	2400	Link11-SLEW – aircraft – Syrian coast
DARC	7090,0	1800	21	03	CHN		FMCW		32k	Chinese Coastal Radar – 2.6 sps – 7090 – 7122 kHz
DARC	7099,5	vt	dly	03	HRV	9A0ZG	FSK8	125	1750	ALE, “9A0ZG” - just for info
DARC	7102,0	vt	dly	03	HRV		FSK8	125	1750	ALE, “9A3COL” – just for info!
DARC	7102,0	0810	14	03	RUS		F1B	75	250	Moscow
DARC	7110,5	vt	dly	03	HRV	9A0ALE	FSK8	125	1750	ALE, amateur net, just for info!
DARC	7114,0	0854	10	03	RUS		PSK2	120	2600	AT3004D - Kaliningrad
DARC	7115,0	2143	30	03	?		FSK8	125	1750	ALE, “RC1” “070707821”
DARC	7133,0	1149	07	03	CHN		FMCW		32k	Chinese Coastal Radar – 2.6 sps – 7133 – 7165 kHz -. also audible in West USA
DARC	7150,0	1008	16	03	CHN		FMCW		32k	Chinese Coastal Radar – 2.6 sps – 7150 – 7182 kHz
DARC	7158,0	2040	08	03	CHN		FMCW		10k	OTH Radar – bursts 66.7 sps – 1.7 sec long – every 30 sec – very strong signal in Japan
DARC	7180,0	vt	dly	03	MRC	no ITU	FSK8	125	1750	ALE, “9201” “6350” “RC1”
DARC	7185,5	vt	dly	03	F	F4BXW	FSK8	125	1750	ALE, “F4BXW” - just for info!
DARC	7195,0	0858	15	03						frequency hopper
DARC	10100,0	0916	10	03						frequency hopper
DARC	10105,0	2142	04	03						frequency hopper
DARC	10105,0	1434	25	03	RUS		PSK2	120	2600	submode idle - area of Kazan
DARC	10106,0	vt	dly	03	ALG	no ITU	FSK8	125	1750	ALE, “OG100A” “OR200B” - Algerian MIL
DARC	10107,0	vt	dly	03			FSK8	125	1750	ALE, “193”
DARC	10110,0	vt	vd	03	SNG		FSK8	125	1750	ALE, “CN6” “68” – Singapore Navy - Changi Naval Base with frigate “RSS Formidable”
DARC	10112,0	ady	dly	03	TUR		PSK8	2400	2400	Stanag4285 – 600 bps long – TUR MIL - Izmir
DARC	10114,8	0728	dly	03	RUS		F1B	100	1000	CIS14 - Penza
DARC	10115,0	vt	dly	03		no ITU	FSK8	125	1750	ALE, “2001”, “2011” “2005”
DARC	10120,0	vt	dly	03		no ITU	FSK2	125	1750	ALE, “9066” “9067”
DARC	10130,0	2150	dly	03	USA		F1B	50	850	USA - Maine
DARC	10130,0	1815	04	03	CYP		FMCW		20k	OTH Radar Cyprus, 50 sps
DARC	10134,0	vt	dly	03	ALG	no ITU	FSK8	125	1750	ALE, “CM4” “COF” - Algerian Airforce
DARC	10135,0	1822	11	03	CYP		FMCW		20k	OTH Radar Cyprus, 50 sps

DARC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DARC	10136,5	vt	dly	03	F	F4BXW	FSK8	125	1750	ALE, "F4BXW" - just for info!
DARC	10145,5	vt	dly	03	HRV	9A5EX	FSK8	125	1750	ALE, 9A5EX, just for info!
DARC	10146,0	vt	dly	03	ALG		FSK8	125	1750	ALE, "ORG" "CM4" - ALG Airforce
DARC	10146,0	ady	27	03		X9Q	A1A			exact: 10145.967 kHz - unid beacon
DARC	10150,0	vt	dly	03		no ITU	FSK8	125	1750	ALE, "CFA" "CTA"
DARC	10150,0	1832	20	03	CYP		FMCW		20k	OTH Radar Cyprus, 50 sps - also: 27.03.2012 at 1828 utc
DARC	13999,0	0952	28	03	RUS		PSK2	120	2600	AT3004D - splattering up
DARC	14000,0	vt	dly	03	CYP	no ITU	FSK8	125	1750	ALE, "091" "1010"
DARC	14000,0	1730	22	03	TUR		FMCW		20k	OTH Radar West Turkey - 50 sps - center 13995 kHz
DARC	14002,0	1045	07	03	CAR		F1B	50	850	Caribbean Sea - Region 2
DARC	14006,0	1129	01	03	LVA		PSK2	120	2600	AT3004D - area of Riga
DARC	14016,0	0803	24	03	RUS		F1B	75	500	Velikije Luki
DARC	14037,0	vt	dly	03		no ITU	FSK8	125	1750	ALE, "313" "132" "932"
DARC	14099,4	1120	07	03	RUS		PSK2	120	2600	AT3004D - South of Moscow
DARC	14104,0	vt	dly	03			FSK8	125	1750	ALE, "A98" "L06"
DARC	14109,0	vt	dly	03	F	F4BXW	FSK8	1250	1750	ALE, "F4BXW" - just for info
DARC	14109,0	1454	29	03	INS?		FSK8	125	1750	ALE, "YD0", probably Indonesia
DARC	14192,0	vt	vd	03	RUS		F1B	50	500	CIS50-50 - RUS Navy Kaliningrad
DARC	14204,0	0823	30	03	RUS		OFDM	29.6	2750	OFDM60 - Moscow
DARC	14220,0	0842	07	03	RUS		F1B	50	500	Moscow
DARC	14236,8	1520	06	03	G		PSK8	2400	2400	Stanag4285 - ship - north west of Newquay
DARC	14242,0	1120	05	03	RUS		PSK2	120	2600	AT3004D - west of Kirov
DARC	14247,0	vt	dly	03	E	no ITU	FSK8	125	1750	ALE, "151" "250"
DARC	14253,0	0805	08	03	RUS		F1B	75	250	Saransk
DARC	14263,0	0920	11	03	RUS		F1B	75	250	Saransk - also: 0828 utc on Mar. 19 th
DARC	14265,0	1126	06	03	RUS		PSK2	120	2600	AT3004D - Tver
DARC	14285,0	1150	05	03	RUS		F1B	54	500	
DARC	14306,0	0700	28	03	RUS		PSK2	120	2600	AT3004D - Tula
DARC	14316,0	vt	dly	03	?	no ITU	FSK8	125	1750	ALE, "601" "611"
DARC	14325,1	vt	vd	03	FEa	no ITU	FSK8	125	1750	ALE, "776" "699" "475"
DARC	14331,0	vt	dly	03			FSK8	125	1750	ALE, "417" "663"
DARC	14341,0	vt	dly	03	I		FSK8	125	1750	ALE, "20" - area of Rome
DARC	14343,0	vt	dly	03		no ITU	FSK8	125	1750	ALE, "L06" "A98"
DARC	14344,7	ady	dly	03	CHN		PSK8	2400	2400	bursts - MIL-188-110A variant
DARC	14348,3	1615	27	03	FEa		PSK8	2400	2400	Link11 - SLEW - ship, area of Taiwan
DARC	14348,6	1117	29	03	RUS		F1B	1200	1200	DPRK-FSK1200 - KRE emba Moscow - exact: 14348.565 kHz
DARC	14350,0	vt	27	03	PHL		FSK8	125	1750	ALE-LSB, "ABJECT, AFFECT, APPLEF"
DARC	18090,0	0730	12	03	CYP		FMCW		20k	OTH Radar Cyprus, 50 sps
DARC	18107,0	vt	vd	03	RUS		F1B	50	200	RUS MIL Moscow - legal operation
DARC	21000,0	0800	25	03		no ITU	FSK8	125	1750	ALE, "ABC"
DARC	21000,0	1000	29	03	CYP		FMCW		20k	OTH Radar Cyprus, 50 sps
DARC	21001,5	vt	dly	03	RUS		F1B	100	150	vocoder Yakhta inband synchro - Nizhny Tagil
DARC	21002,0	1215	16	03						frequency hopper
DARC	21002,2	1330	26	03	SDN		F1B	100	200	Pactor 1 (encrypted) - MFA Sudan - Karthoum
DARC	21002,5	1305	15	03	LBY		F1B	200	200	Pactor1 encrypted - Tripolis Libya
DARC	21005,0	1120	06	03			FMCW		10k	unid radar - 100 sps
DARC	21010,0	1111	05	03			FMCW		20k	OTHR TUR - 50 sps - area of Ankara
DARC	21030,0	1600	30	03	CYP		FMCW		20k	OTH Radar Cyprus, 50 sps
DARC	21045,0	0804	29	03						frequency hopper
DARC	21089,5	vt	dly	03	HRV	9A5EX	FSK8	125	1750	ALE, "9A5EX" - just for info!
DARC	21110,0	0815	24	03	CYP		FMCW		20k	OTH Radar Cyprus, 50 sps
DARC	21122,0	1235	26	03	RUS		F1B	100	1000	Moscow

DARC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DARC	21130,0	0804	01	03	CYP		FMCW		20k	OTH Radar Cyprus, 50 sps
DARC	21135,0	1027	30	03	CYP		FMCW		20k	OTH Radar Cyprus, 50 sps
DARC	21150,0	0755	15	03	CYP		FMCW		20k	OTH Radar Cyprus, 50 sps
DARC	21160,0	0820	29	03			FMCW		20k	OTH Radar Cyprus, 50 sps
DARC	21210,0	1005	23	03	CYP		FMCW		20k	OTH Radar Cyprus, 50 sps
DARC	21215,0	0752	29	03	AUS		FMCW		10k	OTH JORN – Australia – different sweep rates
DARC	21216,0	0754	29	03						frequency hopper
DARC	21300,0	1445	21	03	TUR		FMCW		20k	OTH Radar West-Turkey, 50 sps
DARC	21313,0	1010	23	03						frequency hopper
DARC	21390,0	0930	26	03	CYP		FMCW		20k	OTH Radar Cyprus, 50 sps
DARC	21409,5	0635	30	03	RUS		F1B	100	2000	harmonic from 10704.75 - Jekaterinburg
DARC	21410,0	0632	30	03						frequency hopper
DARC	21438,0	vt	dly	03	UKR	RCV	A1A			RIP90 de RCV - RUS Navy Sevastopol
DARC	21440,8	vt	dly	03	AFG		PSK8	2400	2400	Link11 - SLEW
DARC	24900,0	0814	12	03	TUR		FMCW		20k	OTH Radar Ankara – Turkey – 50 sps
DARC	25000,0	ady	dly	03	FIN		A3E			time signal Helsinki – just for info – carrier on 25000 – dots on 25001
DARC	28000,5	1049	20	03	CIS		A3E			dots, both sidebands, every 2.6 sec - sounding like time signal – unstable carrier on 27999.830 kHz
DARC	28080,0	1102	11	03			FMCW		20k	OTH Radar West Turkey – 50 sps
DARC	28090,0	0835	10	03	TUR		FMCW		20k	OTH Radar Ankara – Turkey – 50 sps
DARC	28100,4	ady	dly	03	POR		F1B	51	270	F1B – bursts – 3.2 sec
DARC	28100,8	ady	dly	03	POR		F1B	51	270	F1B – bursts – 3.2 sec
DARC	28102,2	ady	dly	03	POR		F1B	51	270	F1B – bursts – 3.2 sec
DARC	28110,0	0740	26	03	TUR		FMCW		20k	OTH Radar South East Turkey, 50 sps
DARC	28175,0	1026	07	03	TUR		FMCW		20k	OTH Radar West Turkey – 50 sps
DARC	28181,5	1800	dly	03	CHL		F1B	300	850	F1B bursts – system “Clansman” - every 60 sec. – Chile – daily, all day
DARC	28201,5	0937	30	03	RUS		F1B	100	150	vocoder Yakhta inband synchro and encrypted voice traffic - Ufa
DARC	28205,0	0856	08	03			FMCW		20k	OTH Radar West Turkey – 50 sps
DARC	28290,0	0815	10	03	TUR		FMCW		20k	OTH Radar Ankara – Turkey – 50 sps
DARC	28390,0	1010	10	03	TUR		FMCW		20k	OTH Radar Ankara – Turkey – 50 sps
DARC	28400,0	1130	11	03	TUR		FMCW		20k	OTH Radar West Turkey – 50 sps
DARC	28500,0	1000	01	03	TUR		FMCW		20k	OTH Radar West Turkey – 50 sps
DARC	28590,0	1050	10	03	TUR		FMCW		20k	OTH Radar Ankara – Turkey – 50 sps
DARC	29600,0	1430	10	03	TUR		FMCW		20k	OTH Radar Ankara – Turkey – 50 sps
DARC	29684,7	ady	dly	03	E		F1B	81.9	125	Spanish coastal area – Datawell telemetry buoy
DARC	29686,0	1030	06	03						frequency hopper

IRTS – Ireland – EI4GXB (Ger)

KARS – Kuwait – 9K2RR (Faisal)

MRASZ – Hungary - HA7PL (Laci)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
MRASZ	3501,0	2131	29	3			A3E			russian language
MRASZ	3508,0	1759	10	3		Ui	A3E			male, unstable carrier
MRASZ	3519,0	1945	30	3		Ui	USB			male, ui, language
MRASZ	3520,0	1801	10	3		Ui	USB			russian male/female
MRASZ	3520,0	1914	21	3			USB			male/female ui. language
MRASZ	3520,0	1924	22	3		Ui	USB			male ui. language
MRASZ	3520,0	1949	30	3		Ui	USB			russian female
MRASZ	3530,0	1950	30	3		Ui	A1A			time-signal
MRASZ	7000,0	1203	8	3			N0N			Ui S9+20 dB QSB
MRASZ	7000,0	1757	20	3			N0N			
MRASZ	7000,0	1557	30	3			N0N			Ui Car S9+30 dB
MRASZ	7000,0	1524	31	3			N0N			
MRASZ	7016,0	2240	29	3			SSB			very distorted
MRASZ	7021,0	1933	22	3			A1A A2A?			"2T1 2T1 2T1 129 3T = 24273 24273 25495 25495 3T 3T TTT"
MRASZ	7037,0	1836	29	3		Ui	A1A			dotter
MRASZ	7038,7	1626	28	3	UKR	D	A1A			beacon "D"
MRASZ	7038,7	1940	30	3	UKR	D	A1A			beacon "D"
MRASZ	7038,9	1850	6	3	RUS	S	A1A			beacon "S"
MRASZ	7038,9	1838	20	3	RUS	S	A1A			beacon "S"
MRASZ	7039,0	1850	6	3	RUS	C	A1A			beacon "C"
MRASZ	7039,0	1204	8	3	RUS	C	A1A			beacon "C"
MRASZ	7041,0	1859	9	3			A1A			"QUOE de 70VN K"
MRASZ	7041,0	1704	10	3			A1A			"70VN R262? K"
MRASZ	7041,0	1708	10	3			A1A			"QUOE de 70VN QTA262 K"
MRASZ	7041,0	1833	21	3		3MOW	A1A			"CDWY de 3MOW K"
MRASZ	7041,0	1834	21	3		3MOW	A1A			"45DE de 3MOW K"
MRASZ	7041,0	1913	22	3			A1A			".-NchNÜD ZLNchH CAÜRA 157 RPT AL K"
MRASZ	7041,0	2203	29	3			A1A			"WLI6 de 3MOW QTC"
MRASZ	7041,0	2211	29	3			A1A			"481=PPPPP LVRPX ..."
MRASZ	7041,0	2217	29	3			A1A			"OOIO de 3MOW K"
MRASZ	7044,3	1538	8	3			A1A			"VVV VVV VVV"
MRASZ	7054,0	1851	6	3	RUS		F1B	50	200	
MRASZ	7054,0	1931	30	3	RUS		F1B	50	200	
MRASZ	7090,0	1851	22	3		Ui	FAX			
MRASZ	7112,0	1210	20	3		Ui	F1B		250	
MRASZ	7133,0	1941	29	3		Ui	LSB			spanish male, non HAM
MRASZ	7137,0	1831	10	3		Ui	F1B		200	stopped at 1835
MRASZ	7145,8	1140	20	3		Ui	F1B		250	
MRASZ	7156,7	1837	10	3		Ui	F1B		200	
MRASZ	7160,0	1919	22	3		UiBC	A3E			
MRASZ	7162,0	2021	29	3			A1A			"=99? 2321? 9? ?????"
MRASZ	7162,0	2023	29	3			A1A			"=99? 2323? 9? ?????"
MRASZ	7165,0	1559	8	3		UiBC	A3E			just started
MRASZ	7165,0	1754	15	3		UiBC	A3E			
MRASZ	7170,0	1601	30	3		UiBC	A3E			
MRASZ	7175,0	1622	30	3		UiBC	A3E			
MRASZ	7180,0	1714	10	3		UiBC	A3E			
MRASZ	7196,0	1600	8	3		UiBC	A3E			
MRASZ	14000,0	1326	30	3		Ui	N0N			carrier
MRASZ	14253,0	1315	16	3		Ui	F1B		250	
MRASZ	14256,0	1346	30	3		Ui	F1B		250	
MRASZ	21001,5	1515	30	3		Ui	F1B		170	
MRASZ	21295,0	1411	30	3		Ui	OTHR			21295 - 21320 kHz

OEVSV – Austria – OE3GSA (Gerd)

QRG	UTC	dd mm	details
21025	0700	08 03	OTH?
14192	1825	09 03	F1B RTTY idle
7175	1650	11 03	see Spectran file
7170	0605	14 03	QTE 125deg
18100	2010	17 03	J3E Male chat
18080	0650	18 03	OTHR 18070 - 18110
21015	0615	20 03	F1B
14295	0545	22 03	A3E Music unstable carrier
14015	0630	30 03	USB 2 males spanish
7154,5	0530	03 04	See file 7154.5

PZK – Poland – SP3UZ (Wladyslaw)

REP – Portugal – CT4AN (Jose Francisco)

SOC	KHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REP	3500,0	18.03	12	03	n.i.		J3E-U			Voices of male and female
REP	7025,0	07.12	08	03	E POR		J3E-U			Fishermen sea to sea and harbour
REP	7030,5	17.38	03	03	n.i.		-			Signals from an OTH ?
REP	7038,6	21.00	10	03	RUS	S	A1A			KALININGRAD, ADY, DLY 0.2uV S1
REP	7038,7	20.14	09	03	UKR	D	A1A			SEVASTOPOL, ADY, DLY 6.3uV S6
REP	7038,8	20.40	09	03	RUS	P	A1A			MURMANSK, ADY, DLY 0.2uV S1
REP	7039,0	22.59	09	03	RUS	C	A1A			MOSCOW, ADY, DLY 3.1uV S5
REP	7039,1	23.10	17	03	RUS	A	A1A			VOLGOGRAD, ADY, DLY 6.3uV S6
REP	7039,2	22.40	17	03	RUS	F	A1A			KAMCHATSKY, ADY, DLY 3.1uV S5
REP	7039,3	22.34	06	03	RUS	K	A1A			VOLGOGRAD, ADY, DLY 3.1uV S5
REP	7039,5	22.50	20	03	RUS	M	A1A			MAGADAN, ADY, DLY 3.1uV S5
REP	7041,0	21.22	21	03	RUS	L	A1A			St. PETERSBURG, ADY, DLY 0.2uV S1
REP	7105,0	22.48	07	03	CHN		8k00 A3EGN			Radio (Chinese lang.) 6.3uV S6
REP	7185,0	07.59	18	03	J		J3E-U			Fishermen ? Sailors ?
REP	10105,0	22.04	05	03	MRC		J3E-U			Fishermen on sea
REP	10145,0	09,50	07	03	n.i.	X9Q???	J3E-L			??? Beacon ?
REP	10150,0	22.14	26	03	n.i.		J3E-U			English talking about Company business
REP	14003,0	08.33	02	03	E		J3E-U			Fishermen
REP	14005,0	07.40	02	03	E		J3E-U			Fishermen
REP	14295,0	14.55	17	03	n.i.		8k00 A3EGN			Music and broadcasting 12.5uV S7
REP	14300,0	05.48	22	03	CHN		8k00 A3EGN			Radio (Chinese music) 50uV S9
REP	14300,0	22.44	05	03	n.i.		A3E			Numbers station (5 digit groups – English female voice)
REP	14300,0	05.55	20	03	CHN		8k00 A3EGN			Music and broadcasting 158uV S9+10
REP	21010,0	13.19	01	03	n.i.		J3E-L			Coded (inversion) voice talks
REP	21012,5	08.24	27	03	E		J3E-L			Fishermen ??
REP	24895,0	11.29	23	03	B		F3E			CB's
REP	24900,0	12.33	23	03	B		F3E			CB's
REP	24910,0	10.45	31	03	B		F3E			CB's
REP	28050,0	14.00	09	03	RUS		F3E			Taxis
REP	28055,0	13.32	21	03	RUS		F3E			Taxis
REP	28065,0	10.05	14	03	RUS		F3E			Taxis
REP	28100,0	15.04	20	03	RUS		F3E			Taxis
REP	28135,0	11.03	15	03	RUS		F3E			Taxis (female voice)
REP	28155,0	11.00	15	03	RUS		F3E			Taxis
REP	28345,0	11.01	26	03	RUS		F3E			Taxis
REP	28550,0	13.52	27	03	B		F3E			CB's
REP	28555,0	11.12	08	03	B		F3E			CB's

RSGB - Great Britain – G4BOH (Chris)

SRAL – Finland – OH2BLU (Pekka)

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
SRAL	7000,0	h24	8-15	3		UiCarr	N0N			0 Hz offset
SRAL	7000,0	h24	19 - 31	3	ISR?	UiCarr	N0N			+3 Hz offset
SRAL	7008,0	1430-1520	15	3	RUS	UiPTR	F1B		250	
SRAL	7012,0	1325-1400	20	3		UiPTR	F1B		200	
SRAL	7018,0	1300-1830	3, 27	3		UiMUX	J7D	12x120	12x200	
SRAL	7020,0	0845-0930	12	3		UiPTR	F1B		250	
SRAL	7023,0	0655	26	3		UiPTR	F1B			
SRAL	7030,0	0620-1040	14, 15	3		UiPTR	F1B		250	
SRAL	7032,0	1300-2000	12, 27	3		UiMUX	J7D	12x120	12x200	
SRAL	7033,0	1100-1220	20	3		UiPTR	F1B		250	
SRAL	7037,0	1030-1057/	14	3		UiMUX	J7D	12x120	12x200	
SRAL	7038,7	h24	dly	3	UKR	D	A1A			Sevastopol
SRAL	7038,9	h24	dly	3	RUS	S	A1A			Severomorsk
SRAL	7039,0	h24	dly	3	RUS	C	A1A			Moscow
SRAL	7041,0	0630-1930	15	3	RUS	9UKZ	A1A			procedures
SRAL	7041,0	0630-1930	28-30	3	RUS	3MOW	A1A			procedures
SRAL	7045,0	0535	24	3	RUS	E52C	A1A			procedures
SRAL	7054,0	1700-0700	dly	3	RUS	REA4	F1B		200	Moscow
SRAL	7059,0	1330-1430	20	3		UiPTR	F1B		250	
SRAL	7069,0	0645	14	3		UiMUX	J7D	12x120	12x200	
SRAL	7078,0	0630-0700	15	3		UiMUX	J7D	12x120	12x200	
SRAL	7112,0	1200-1230	20	3		UiPTR	F1B		250	
SRAL	7114,0	0600-0900	20	3		UiMUX	J7D	12x120	12x200	
SRAL	7114,0	1630-1700	23	3		UiPTR	F1B		200	
SRAL	7120,0	0300-0500	dly	3	ERI	VoBME 1	A3E			jammed by ETH, QSY 7100 - 7130 kHz
SRAL	7120,0	1445-1800	dly	3	ERI	VoBME 1	A3E			QSY 7100 – 7130 kHz, jammed by ETH until 1700,
SRAL	7122,0	0630-0810	9, 21	3		UiPTR	F1B		250	
SRAL	7122,0	0810-0830	21	3		UiMUX	J7D	12x120	12x200	
SRAL	7127,0	1430	17	3		UiCW	A1A			MR 5F
SRAL	7137,0	1500-1530	17	3		UiPTR	F1B		200	
SRAL	7142,0	0930-1230	*	3		UiPTR	F1B			Days: 16, 20, 23
SRAL	7144,0	0800-1500	*	3		UiMUX	J7D	12x120	12x200	Days: 17, 20, 23
SRAL	7162,0	0530-1205/	*	3		UiPTR	F1B		250	Days: 1, 5, 10, 13 – 15, 19, 21, 26

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
SRAL	7166,0	1310	27	3	RUS	UiMUX	J7D	12x120	12x200	
SRAL	7169,0	0700-1300	*	3		UiPTR	F1B		250	Days: 6, 16, 22
SRAL	7175,0	0300-0600	dly	3	ERI	VoBME 2	A3E			jammed by ETH, QSY 7160 – 7190 kHz
SRAL	7175,0	1430-1800	dly	3	ERI	VoBME 2	A3E			QSY 7160 –7190 kHz, jammed by ETH until 1700,
SRAL	7178,0	0750	15	3	RUS	UiMUX	J7D	12x120	12x200	
SRAL	7196,0	0800	21	3	RUS	5CJS	A1A			procedures
SRAL	7200,0	0300-0600	dly	3	SDN	R Sudan	A3E			
SRAL	7200,0	1520-1630	dly	3	AFG	R.Afganistan	A3E			
SRAL	7200,0	1530-1830	dly	3	ERI	VoBME 1	A3E			jammed by ETH, QSY +/-5kHz (or more up?)
SRAL	14000,0	1515-1712/	12	3	ISR?	UiCarr	N0N			
SRAL	14028,0	0735	8	3		UiPTR	F1B		250	
SRAL	14240,0	0925	12	3		UiCW	A1A			MR 5BL
SRAL	14242,0	0900	5	3		UiMUX	J7D	12x120	12x200	
SRAL	14253,0	0630-1500	*	3		UiPTR	F1B		250	Days: 2, 5, 8, 12, 19, 26
SRAL	14263,0	0800-1100	3,11	3		UiPTR	F1B		250	
SRAL	14265,0	0700-0800	*	3		UiMUX	J7D	12x120	12x200	Days: 3, 11, 19
SRAL	14295,2	0330-1700	dly	3	TJK	R Tojikiston	A3E			3f 4765,08 kHz, Yangiyul TX
SRAL	21000,0	1100-1245	13, 31	3	RUS	UiVocod	F1B		150	
SRAL	21000,0	1015-1021/	29	3	CYP	UiOTHR	P0N			20 kHz/ 50 Hz
SRAL	21450,0	1015-1021/	29	3	CYP	UiOTHR	P0N			20 kHz/ 50 Hz
SRAL	24885,0	0655	26	3	CYP	UiOTHR	P0N			20 kHz/ 50 Hz
SRAL	24990,0	1000-1015	9	3	CYP	UiOTHR	P0N			20 kHz/ 50 Hz
SRAL	28202,0	0450-0855	24 - 26	3	RUS	UiVocod	F1B		150	
SRAL	28 MHz	0500-1330	*	3	CIS	UiVOX	F3E			Days: 6, 8, 11, 25, 31, 25 reports
SRAL	28 MHz	0850-1330	*	3	CYP	UiOTHR	P0N			20 kHz/ 50 Hz, days: 6, 8, 10, 14, 24 – 26
SRAL	28870,0	1400	20	3	CYP	UiOTHR	P0N			20 kHz/ 50 Hz

USKA – Switzerland – HB9CET (Peter)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	7000.0	1502	07	03			N0N			long lasting carrier daily
USKA	7000.0	2228	26	03			FMCW		~ 10k	slowly sweeping signal often
USKA	7000.8	1624	16	03			OFDM51	37.5	2k4	spacing 47Hz
USKA	7009.15	1722	21	03			OFDM60	37.5	2k7	spacing 44.5Hz
USKA	7014.0	1423	15	03			J7D	12x120	2k6	CIS12 idling only (13 carriers)
USKA	7015.0	1842	16	03			FMCW	2.6 sps	~ 36k	OTHR, approx 36k wide (weak)
USKA	7018.0	1547	03	03			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D
USKA	7019.875	1019	12	03			A1			illegal and unwanted jammer (dashes/dots)
USKA	7020.0	1015	12	03			F1B	75	250	
USKA	7026.0	2127	23	03			FMCW	43 sps	~ 10k	OTHR, Bursts
USKA	7032.0	2210	12	03			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	7033.0	2239	23	03			FMCW	68 sps	~ 10k	OTHR, Bursts BD 2s, BRI 32s
USKA	7038.3	1716	01	03	RUS	K	A1A			Beacon K Petropavlovsk
USKA	7038.7	1708	01	03	UKR	D	A1A			Beacon D Sevastopol daily
USKA	7038.9	1709	01	03	RUS	S	A1A			Beacon S Murmansk daily
USKA	7039.0	1707	01	03	RUS	C	A1A			Beacon C Moscow daily
USKA	7039.2	1715	01	03	RUS	F	A1A			Beacon F Vladivostok daily
USKA	7039.4	1714	01	03	RUS	M	A1A			Beacon M Magadan daily
USKA	7054.0	1804	04	03			F1B	50	200	daily
USKA	7070.0	2048	05	03		810205	MFSK8	125	1750	MIL 188-141A
USKA	7070.0	2245	05	03		820203	MFSK8	125	1750	MIL 188-141A
USKA	7070.0	0151	06	03		244	MFSK8	125	1750	MIL 188-141A daily
USKA	7070.0	1939	13	03		MV	MFSK8	125	1750	MIL 188-141A
USKA	7070.0	1749	14	03		549	MFSK8	125	1750	MIL 188-141A
USKA	7070.0	2044	28	03		810203	MFSK8	125	1750	MIL 188-141A
USKA	7070.0	1945	29	03		571	MFSK8	125	1750	MIL 188-141A
USKA	7070.0	2200	29	03		810201	MFSK8	125	1750	MIL 188-141A
USKA	7070.0	0110	30	03		20943	MFSK8	125	1750	MIL 188-141A
USKA	7070.0	2249	30	03		810202	MFSK8	125	1750	MIL 188-141A
USKA	7070.0	2259	30	03		820201	MFSK8	125	1750	MIL 188-141A
USKA	7089.7	1003	07	03			PSK-8	2400	2400	Link 11- SLEW often
USKA	7089.7	2307	07	03			PSK-8	2400	2400	Link 11- SLEW often
USKA	7105.0	2221	04	03		TWN	A3E			BC (2 stations) daily
USKA	7105.0	2221	04	03		CHN	A3E			BC (2 stations) daily
USKA	7110.0	2355	09	03			A3E			BC
USKA	7110.0	1458	30	03			A3E			BC, jammed
USKA	7110.0	1459	30	03			Noise		10 kHz	Jammer
USKA	7111.9	0142	17	03		UDAIRI	MFSK8	125	1750	MIL 188-141A
USKA	7120.0	1643	01	03			A3E			BC, jammed
USKA	7120.0	1643	01	03			Noise		10 kHz	Jammer
USKA	7136.0	1732	01	03			FMCW	2.7 sps	30k	OTHR Bursts
USKA	7150.0	1520	30	03			A3E			BC, jammed often
USKA	7150.0	1521	30	03			Noise		10 kHz	Jammer often
USKA	7175.0	1547	04	03			A3E			BC, jammed often
USKA	7175.0	1547	04	03			Noise		10 kHz	Jammer often
USKA	7180.0	1502	30	03			A3E			BC, jammed often
USKA	7180.0	1503	30	03			Noise		10 kHz	Jammer often
USKA	7190.0	1640	01	03			A3E			BC often
USKA	7190.0	1640	01	03			Noise		10 kHz	Jammer often
USKA	10120.0	1341	13	03			J3E-U			spanish, no ham , several stations
USKA	10140.0	2158	12	03			FMCW	50sps	20k	OTHR
USKA	14006.0	1634	01	03			J7D		2k6	CIS12 system, idling (13 carriers)
USKA	14016.0	0754	24	03	RUS		F1B	50	500	
USKA	14192.0	0903	01	03			F1B	50	500	often
USKA	14220.0	0832	07	03			F1B	75	500	
USKA	14236.8	1523	06	03			PSK-8	2400	2400	Stanag 4285
USKA	14242.0	0938	05	03			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D
USKA	14249.0	1412	16	03			F1B	75	250	
USKA	14292.0	1034	20	03			A1A			no ham content
USKA	14344.7	2252	22	03			PSK-8	2400	2k4	MIL 188-110A modified Hybrid Burst interval 6.8s, duration 2.6s
USKA	18107.0	0844	08	03			F1B	50	200	CIS 36-50
USKA	18107.0	0848	08	03			F1B	36	200	CIS 36-50
USKA	18107.0	0946	22	03			F1A		200	
USKA	21000.0	1002	04	03			FMCW	50 sps	20 kHz	OTHR
USKA	21090.0	0914	21	03			FMCW	50 sps	20 kHz	OTHR
USKA	21310.0	1401	30	03			FMCW	50 sps	20 kHz	OTHR
USKA	21390.0	1044	26	03			FMCW	50 sps	20 kHz	OTHR

Veron 1 – Netherlands – PA2GRU (Dick)

SOC	KHZ	UTC	DD	MM	ITU	IDENT	MODE	SHIFT	DETAILS
VERON	3548,0	18.41	26	3		UiCAR	NON		carrier, S-9
VERON	3699,5	18.00	12	3		UiPTR	F1B		Revs
VERON	3699,5	23.03	17	3	RUS	UiPtr	F1B	200	Printer
VERON	7000,0	11.40	13	3		UiCAR	NON		Carrier very strong
VERON	7000,0	20.32	31	3		UiCAR	CAR		Persistent carrier; s8-9
VERON	7000,0	19.00	vd	3	ISR	UiCAR	NON		carrier, S-9
VERON	7000,5	vt	vd	3	ISR	UiCAR	NON		TX located in Israel, complaint to AT
VERON	7000,5	18.49	30	3		UiCAR	NON		carrier, located in Israel, S-9++
VERON	7038,7	22.17	3	3	UKR	D	A1A		Beacon Sevastopol
VERON	7038,7	21.01	17	3	UKR	D	A1A		Beacon Sevastopol
VERON	7038,9	18.49	26	3	RUS	C	A1A		beacon C, nr Moscow
VERON	7038,9	18.50	26	3	RUS	S	A1A		beacon S,
VERON	7039,0	vt	vd	3	RUS	C	A1A		C-beacon
VERON	7039,0	vt	vd	3	RUS	C	A1A		Beacon Moscow
VERON	7039,3	17.53	12	3	CZE	OKOEPB	A1A		Time Signal (allowed ?)
VERON	7039,5	20.20	13	3	CZE	OKOEPB	A1A		Time Signal (allowed ?), 26/3,
VERON	7042,0	11.25	13	3		UiPTR	F1B		Ptr
VERON	7054,0	21.02	3	3	RUS	UiPtr	F7B	400	5 channel printer
VERON	7054,0	21.26	4	3	RUS	UiPtr	F7B	400	5 channel printer
VERON	7054,0	vt	vd	3	RUS	UiPtr	F1B	200	Printer; bad filtered signal
VERON	7054,0	20.17	13	3	RUS	REA4	F1B	200	Revs, Airfoce nr. Moscow, also 23/3,26/3
VERON	7082,0	23.42	3	3					Frequency hopper
VERON	7105,0	22.08	vd	3	CHN	R.China	A3E		Chinese song & speech; s7-9
VERON	7105,0	22.08	vd	3	TWN	SOH	A3E		Chinese male speech; s5-8
VERON	7110,0	23.58	17	3		UiBc	A3A		Israelean music & songs; s6
VERON	7114,0	20.31	24	3		UiPtr	F1B	200	Printer
VERON	7145,0	17.22	25	3		UiJAM	JAM		White noise jammer; 28k spread
VERON	7147,0	22.57	4	3					Frequency hopper
VERON	7151,0	17.12	25	3		Stanag			Stanag 4285, heavy qrm WPX SSB
VERON	7165,0	20.00	24	3			JAM		White noise jammer; 16k spread
VERON	7187,0	20.03	17	3					Frequency hopper
VERON	7200,0	21.53	3	3	IRN	IRIB	A3E		Japanese female speech; s9
VERON	7200,0	21.29	4	3	IRN	IRIB	A3E		Japanese female speech; s9
VERON	10130,0	08.50	13	3		UiPTR	F1B		Ptr
VERON	14008,0	08.50	13	3	CIS	UiPTR	F1B		Carrier/Revs/Ptr
VERON	14192,0	15.14	25	3	RUS	UiPtr	F1B	500	Printer
VERON	14192,0	16.35	7	3	RUS	UiPTR	F1B	500	Revs, also 8/3,14/3,
VERON	14192,0	10.07	24	3	RUS	UiPTR	F1B	500	Ptr
VERON	14218,0	09.44	25	3		UiPTR	F1B	500	Revs
VERON	14233,0	10.05	6	3		UiMUX	FSK		roaring noise, also 8/3
VERON	14236,0	16.20	7	3		Stanag	PSK8	2400	Stanag 4285
VERON	14242,0	10.07	6	3		UiMUX	PSK		12 MPSK AT3004D
VERON	14253,0	22.05	15	3		UiPTR	F1B	250	Ptr, also 30/3
VERON	14262,9	10.25	4	3		UiPtr	F1B	250	Printer
VERON	14263,0	10.40	5	3		UiPTR	F1B		Ptr, qrt at 10.41 utc
VERON	14274,0	10.10	8	3		UiCAR	NON		carrier, also 12/3
VERON	18106,0	07.13	29	3		OTHR	FMCW		radar,18090-18110 KHZ
VERON	18107,0	15.15	21	3	CIS	UiPTR	F1B		Carrier/Revs/Ptr
VERON	21001,5	10.26	2	3	RUS	UiPTR	F1B	150	Vocoder Yaktha Jekatrinburg, also 18/3
VERON	21020,0	15.57	30	3		OTHR	FMCW		radar, 21018-21040 KHz
VERON	21100,0	15.44	4	3	E	UiILL	J3-eu		Spanish, male voices, fishery
VERON	21102,0	18.24	11	3		UiILL	J3-eu		Unknown East-European language, male
VERON	21163,0	13.12	24	3					Frequency hopper
VERON	21307,0	13.26	17	3					Frequency hopper
VERON	21310,0	13.33	30	3		OTHR	FMCW		radar, 21300-21320 KHz
VERON	21427,0	16.21	4	3					Frequency hopper
VERON	28100,0	10.17	12	3		OTHR	FMCW		radar, 28086-28110)

The monitoring team of IARU Region 1

Many thanks for your interest!

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