International Amateur Radio Union

Region 1

Monitoring System

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The monthly newsletter for Region 1

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The members of the IARUMS Region 1 Monitoring Team:

Acknowledgements

++ ARI: DH7SA – Salvatore ++ ARSK: 5Z4NU - Ted ++ ASTRA: DL1BDF – Mustapha ++ DARC: DJ9KR – Uli ++
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++ MRASZ: HA7PL - Laci ++ NARS: 5N9AYM – Yusuf ++ OEVSV: OE3DMA – Alex ++ PZK: SP3SUZ – Wladyslaw ++
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++ VERON: PA2GRU - Dick ++ ZRS: S56ZDB – Darko ++ G3VZV – Graham (satellite intrusions) ++
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++ DARC (server support) ++ OD5TE (Hani) ++ VE6SH – Tim (IARU President) ++ PB2T – Hans (IARU R1 President) ++
++ 9A5W - Nikola (EC-IARU-R1) ++ German PTT (BNetzA) ++ SK6AW – DX-Cluster

Part 1: News and infos
Part 2: Detailed reports of the national co-ordinators

Part 1: News and Infos

1. The IARU Region 1 Executive Committee awarded the **IARU Region 1 medal to Ulrich Bihlmayer, DJ9KR** for his longtime outstanding work in the IARU Monitoring Service. DJ9KR joined IARU MS in 1975, is the present co-ordinator of DARC-MS and serves as vice-chairman of the Region 1 IARU MS Working Group. His dedication is an example for us all. The presentation of the medal will take place at Ham Radio 2012 in Friedrichshafen. **source: PB2T**

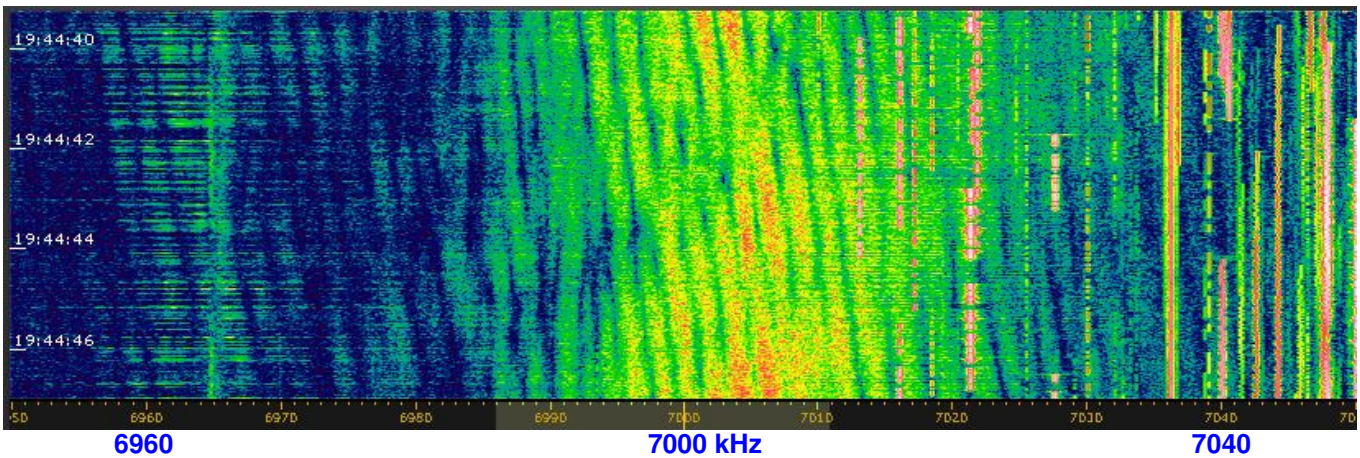
2. **Chinese Coastal Radar left 10 MHz only for few weeks.**
   After a complaint by the German PTT the Chinese Coastal Radar left 10140 kHz and appeared on 7 MHz. The Chinese OTH Radar was also active on 7000 MHz and in the middle of the band with 43.5 sweeps/sec. On Dec. 25th the Radar was back again on 10120 – 10160 kHz with 2.6 sps. We were not amused.

3. **CIS pirates overflooding 80 m**
   It is not easy to detect them, because they are transmitting with low power equipments between 3500 and 3602 kHz in AM every evening. The carriers are very unstable, a carrier drift of 100 - 1000 Hz within few seconds seems to be common. In December 2011 I found them on about 50 QRGs above 3500! Locations: Russia and UKR. If you want to observe them, use sonagrams!!! My new game on shortwave: **CTC** = Catch the carrier.

4. **Russian taxi power**
   A Russian Ham informed us, that Russian taxi base stations on 10 m are transmitting with 200 – 600 watts! He also told us, that the Russian authorities are not very interested in further investigations. Anyway: Uli has done his best!

5. **ZS6AF reports: (forwarded by ZS1FCS)**
   Mozambique Border police is still operating on 7076 USB and sometims LSB early mornings around 07h00 till 10h00 doing SITRAPS in Portugese. The USB intefere with JT65 on USB. or maybe not . The messages still goes through. South African fishing travelrs was heard on 14075 USB last week monday night. ZS6AF asked them to please move out of the band which they did. Easily recognized by the swearing and cursing in English. In the KNP is a group of commercial operators on 145.500Mhz doing game watch with the radios. No Callsigns and i could only hear a lady speaking in English of lions at a waterpoint . Typical commercial operators talk. She talked to 2 other stations but they could not be heard .She was heard in Skukuza are but believed that they are operating south from there since she was strongest when i had a bit of a hill to my north. They were heard end of October by ZS6AF. Any hams going to KNP are asked to listen ONLY and report positions of where they are operating.

6. **7410 kHz – All India Radio with spurious emissions**
   The screenshot below is showing the spurious emissions by All India Radio on 7000 Hz on Dec. 17th at 1900 UTC in Central Europe. I found the broadband signal the first time on Dec. 1st and believed to hear a military signal. Later I found out, that All India Radio was transmitting on 7410 kHz and producing strong spurious emissions on 6860 – 7040 and 7800 - 7880 kHz. (80 kHz spread!) Together with Mr. E.G. from the German PTT (BNetzA) I took measurements and bearings. The German PTT filed an official complaint to the Indian authority. Grateful words to HB9CET, DJ9KR, PA2GRU, VK4TJ for observations and assistance and to VU2GMN for actions. Thanks to the German PTT (BNetzA) and Swiss PTT (BAKOM) for the fast support. A Perseus SDR is an excellent gear, if you want to observe broadband emissions. I was rather astonished, that I did not get any complaint or request by radio amateurs for more than 4 weeks of disturbations. On January 9th 2012 the daily interference is still active.
   Screenshot: DK2OM with Perseus



7. **Homepage IARU Region 1** http://www.iaru-r1.org/
   Homepage IARUMS Region 1 http://www.iarums-r1.org
   Homepage IARUMS Region 2 http://www.iaru-r2.org/
   Homepage IARUMS Region 3 http://www.iaru-r3.org/ms/

Part 2: Detailed reports from the national Co-ordinators

DD = day ••• **MM** = month ••• **dly** = daily ••• **vt** = various times ••• **vd** = various days ••• **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** = othogonal frequency division multiplex **ALE (MIL-188-141A)** = automatic link establishment ••• **MUX** = multiplex ••• **Ui (unid)** = unidentified ••• **Illicit** = illegal ••• **UiILL** = unidentified illegal ••• **BC** = broadcast ••• **MIL** = military ••• **PTR** = printer ••• **NGO** = non governmental organization ••• **ITU** = ITU country abbreviation ••• **PRC** = People´s Republic of China ••• **PLA** = People´s Liberation Army ••• **MFA** = Ministry of Foreign Affairs ••• **MOI** = Ministry of Interior ••• **MOPO** = Ministry of Public Order ••• **IARUMS** = IARU Monitoring System ••• **UTC** = Universal Time Coordinated ••• **pps** = pulses per second (radar systems) ••• **sps** = sweeps/sec (radar systems FMCW) ••• **FMCW** = frequency modulated continuous wave

ARSK MONITORING OVERVIEW FOR DECEMBER 2011

The only intruders of consequence were the permanent broadcasts on 7200 kHz from Khartoum and Radio Afghanistan. If broadcast stations from Addis Ababa and Eritrea were on 40 meters they were not heard, but I am unable to monitor 24 hours a day. I have not recorded a few SSB stations heard on 40 meters which were too weak to identify and could originate from anywhere. Propagation was not good on 40 meters.
A Happy New Year to all.

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

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ARSK – Kenya – 5Z4NU (Ted)

not available

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

CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	Remarks and Comments
DARC	3499,2	2039	25	12	CIS	UiILL	A3E	pirate in A3E, unstable carrier
DARC	3500,0	0700	15	12	E	UiILL	J3E-U	Spanish fishery, fooling around, playing music
DARC	3500,5	2300	16	12	CIS	UiILL	A3E	pirate in A3E, unstable carrier
DARC	3500,8	2008	29	12	CIS	UiILL	A3E	pirate in A3E, unstable carrier
DARC	3501,2	vt	vd	12	CIS	UiILL	A3E	pirates in A3E, heard 04 11 at 2059, 1843 - unstable carrier
DARC	3501,3	1829	27	12	CIS	UiILL	A3E	pirate in A3E, unstable carrier
DARC	3501,5	2041	14	12	CIS	UiILL	A3E	pirate in A3E, unstable carrier
DARC	3501,8	1951	15	12	CIS	UiILL	A3E	pirate in A3E, unstable carrier
DARC	3502,0	2100	04	12	CIS	UiILL	A3E	pirate in A3E, unstable carrier
DARC	3502,5	2042	14	12	CIS	UiILL	A3E	pirate in A3E, unstable carrier
DARC	3503,5	2136	12	12	CIS	UiILL	A3E	pirate in A3E, unstable carrier
DARC	3504,0	2042	07	12	CIS	UiILL	A3E	pirate in A3E, unstable carrier
DARC	3505,0	2241	06	12	CIS	UiILL	A3E	pirate in A3E, unstable carrier
DARC	3506,5	2126	22	12	CIS	UiILL	A3E	pirate in A3E, unstable carrier
DARC	3507,5	2159	05	12	CIS	UiILL	A3E	pirate in A3E, unstable carrier
DARC	3509,7	2047	30	12	CIS	UiILL	A3E	pirate in A3E, unstable carrier
DARC	3511,5	2012	21	12	CIS	UiILL	A3E	pirate in A3E, unstable carrier
DARC	3512,0	2004	29	12	CIS	UiILL	A3E	pirate in A3E, unstable carrier
DARC	3512,2	2046	30	12	CIS	UiILL	A3E	pirate in A3E, unstable carrier
DARC	3514,0	2119	25	12	CIS	UiILL	A3E	pirate in A3E, unstable carrier
DARC	3514,1	2307	14	12	CIS	UiILL	A3E	pirate in A3E, unstable carrier
DARC	3515,0	2113	25	12	CIS	UiILL	A3E	pirate in A3E, unstable carrier
DARC	3515,8	2020	14	12	CIS	UiILL	A3E	pirate in A3E, unstable carrier
DARC	3516,8	2133	31	12	CIS	UiILL	A3E	pirate in A3E, unstable carrier
DARC	3517,4	vt	vd	12	E	UiILL	J3E-L	Spanish fishery heard 03 09 21 at 2100, 2025, 2101
DARC	3518,5	2255	14	12	CIS	UiILL	A3E	pirate in A3E, unstable carrier
DARC	3519,5	2242	16	12	CIS	UiILL	A3E	pirate in A3E, unstable carrier
DARC	3520,2	2134	31	12	CIS	UiILL	A3E	pirate in A3E, unstable carrier

CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	Remarks and Comments
DARC	3521,0	2305	14	12	CIS	UiILL	A3E	pirate in A3E, unstable carrier
DARC	3522,3	2032	30	12	CIS	UiILL	A3E	pirate in A3E, unstable carrier
DARC	3524,0	2027	14	12	CIS	UiILL	A3E	pirate in A3E, unstable carrier
DARC	3524,6	2007	26	12	CIS	UiILL	A3E	pirate in A3E, unstable carrier
DARC	3528,0	2239	14	12	CIS	UiILL	A3E	pirate in A3E, unstable carrier
DARC	3530,8	2025	14	12	CIS	UiILL	A3E	pirate in A3E, unstable carrier
DARC	3533,6	1628	11	12	CIS	UiILL	A3E	pirate in A3E, unstable carrier
DARC	3535,5	1950	15	12	G	UiILL	J3E-U	UK fishery
DARC	3535,8	2039	21	12	CIS	UiILL	A3E	pirate in A3E, unstable carrier
DARC	3537,5	2030	30	12	CIS	UiILL	A3E	pirate in A3E, unstable carrier
DARC	3538,7	2136	31	12	CIS	UiILL	A3E	pirate in A3E, unstable carrier
DARC	3540,0	1955	31	12	EGY	UiILL	J3E-L	male person spelling numbers in Arabic voice
DARC	3542,0	2000	21	12	CIS	UiILL	J3E-U	male person in Russian voice
DARC	3544,1	2006	29	12	CIS	UiILL	A3E	pirate in A3E, unstable carrier
DARC	3544,2	2140	31	12	CIS	UiILL	A3E	pirate in A3E, unstable carrier
DARC	3549,3	2106	30	12	CIS	UiILL	A3E	pirate in A3E, unstable carrier
DARC	3549,5	2014	21	12	CIS	UiILL	A3E	pirate in A3E, unstable carrier
DARC	3549,9	2108	21	12	E	UiILL	J3E-L	Spanish fishery
DARC	3550,0	0819	09	12	F	French Lis Amateurs	A3E	daily active net
DARC	3550,0	2001	21	12	CIS	UiILL	A3E	pirate in A3E, unstable carrier
DARC	3550,0	vt	dly	12	F	French Lis Amateurs	A3E	French lis amateurs, daily - --- AM in CW section is in contradiction to IARU Bandplan
DARC	3551,8	0803	17	12	F	French Lis Amateurs	A3E	AM in CW section, not nice!
DARC	3555,6	2240	07	12	F	UiILL	J3E-U	French fishery, engine noise
DARC	3557,0	2003	21	12	E	UiILL	J3E-U	Spanish fishery
DARC	3559,0	2037	21	12	CIS	UiILL	A3E	pirate in A3E, unstable carrier
DARC	3560,0	1808	25	12	N.Eu	UiILL	J3E-U	Scandinavians
DARC	3566,8	2035	30	12	CIS	UiILL	A3E	pirate in A3E, unstable carrier
DARC	3571,4	2036	25	12	CIS	UiILL	A3E	pirate in A3E, unstable carrier
DARC	3572,9	2036	07	12	CIS	UiILL	A3E	pirate in A3E, unstable carrier
DARC	3587,0	1927	24	12	CIS	UiILL	A3E	pirate in A3E, unstable carrier
DARC	3589,0	1929	24	12	CIS	UiILL	A3E	pirate in A3E, unstable carrier
DARC	3589,2	1935	26	12	CIS	UiILL	A3E	pirate in A3E, unstable carrier
DARC	3590,0	2000	16	12	CIS	UiILL	A3E	pirate in A3E, unstable carrier
DARC	3590,0	2000	16	12	HOL	UiILL	J3E-U	Dutch pirate in SSB-LSB
DARC	3600,0	1637	dly	12	F	French Lis Amateurs	A3E	French lis amateurs, daily - --- AM in CW section is in contradiction to IARU Bandplan
DARC	3800,0	1725	02	12	E	UiILL	J3E-U	Spanish fishery
DARC	6999,0	1037	07	12	RUS	UiILL	J3E-U	male persons in Russian voice, splattering up
DARC	6999,0	2143	31	12	F.Ea	UiILL	J3E-U	Far East pirates splattering up into ham band
DARC	7000,0	2037	04	12	E	UiILL	J3E-U	Spanish fishery
DARC	7000,0	1643	15	12	INS	UiILL	J3E	pirates using USB or LSB
DARC	7000,0	1744	19	12	I	UiILL	J3E-L	calling CQ in Italian, ident "110"
DARC	7000,0	1753	20	12	E	UiILL	J3E-U	Spanish fishery
DARC	7000,0	1336	27	12	IND	All India Radio	A3E	crackling modulation
DARC	7013,3	1821	27	12	IND	All India Radio	A3E	distorted modulation
	7018,0	vt	vd	12	RUS	REA4	F1B	printer, is RUS Air Force Moscow
DARC	7038,7	h24	dly	12	UKR	beacon D	A1A	Sevastopol
DARC	7038,8	h24	dly	12	RUS	beacon P	A1A	Kaliningrad
DARC	7038,9	h24	dly	12	RUS	beacon S	A1A	beacon "S" - Murmansk
DARC	7039,0	h24	dly	12	RUS	beacon C	A1A	beacon "C" - Moscow
DARC	7054,0	0238	18	12	RUS	RUS Navy Moscow	F1B	fast reversals, distorted audio
DARC	7100,0	1624	11	12	ETH	ETH Govt Jammer	JAM	white noise jammer
DARC	7100,0	1624	11	12	ERI	VOBME	A3E	covered by white noise jammer
DARC	7100,0	1507	13	12	ETH	ETH Govt	JAM	white noise jammer

CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	Remarks and Comments
						Jammer		
DARC	7100,0	1507	13	12	ERI	VOBME	A3E	covered by white noise jammer
DARC	7100,0	1725	21	12	ETH	ETH Govt Jammer	JAM	white noise jammer on R.VOBME, heard 1725 - 1805
DARC	7100,0	1725	21	12	ERI	VOBME	A3E	is active
DARC	7105,0	2200	08	12	CHN	Soh Xi Wang Zhi Sheng	A3E	purpose is to jam Sound of Hope on same QRG, 2200 - 2300
DARC	7105,0	2200	16	12	TWN	Sound of Hope	A3E	just audible under "Soh Xi Wang Zhi Sheng", 2200 - 2300
DARC	7110,0	0257	13	12	ERI	VOBME	A3E	at 0757 : jingle, s/on Arabic px, found // 7175
DARC	7110,0	0305	18	12	ERI	VOBME	A3E	weak signal, found // 7175
DARC	7110,0	1655	22	12	ERI	VOBME	A3E	typical px, under white noise jammer of ETH
DARC	7110,0	1655	22	12	ETH	ETH Govt. Jammer	JAM	white noise jammer of ETH
DARC	7110,0	1551	25	12	ETH	ETH Govt Jammer	JAM	white noise jammer
DARC	7110,0	1551	25	12	ERI	VOBME	A3E	covered by white noise jammer
DARC	7110,0	1752	26	12	ERI	VOBME	A3E	typical HOA music
DARC	7115,0	1630	26	12	ERI	VOBME	A3E	is active
DARC	7115,0	1630	26	12	ETH	ETH Govt Jammer	JAM	white noise jammer on VOBME
DARC	7117,0	1625	20	12	RUS	REA4	F1B	fast reversals
DARC	7120,0	1540	02	12	ERI	VOBME	A3E	under heavy wn jammer from ETH
DARC	7120,0	1540	02	12	ETH	ETH Govt Jammer	JAM	heavy wn jammer from ETH
DARC	7120,0	1532	13	12	ETH	ETH Govt Jammer	JAM	white noise jammer on VOBME
DARC	7125,0	1752	26	12	IND	All India Radio	A3E	crackling modulation
DARC	7155,0	1735	21	12		UiBC	A3E	totally distorted Al-Qur' an recitals, found // 7190
DARC	7155,0	1752	26	12	IND	All India Radio	A3E	crackling modulation
DARC	7162,0	0633	26	12		UiPTR	F1B	unid printer
DARC	7165,0	1633	30	12	ERI	VOBME	A3E	under heavy wn jammer, s/off at 1632
DARC	7165,0	1633	30	12	ETH	ETH Govt Jammer	JAM	white noise jammer on VOBME
DARC	7170,0	1752	26	12	ERI	VOBME	A3E	typical HOA music
DARC	7174,0	vt	04	12		UiCAR	N0N	carrier S9+20dB, heard 1648 - 1651 s/off
DARC	7175,0	1707	03	12	ERI	VOBME	A3E	tribal language
DARC	7175,0	1648	04	12	ERI	VOBME	A3E	heard 1648 - 1659
DARC	7175,0	1612	10	12	ETH	ETH Govt. Jammer	JAM	white noise jammer on VOBME
DARC	7175,0	1612	10	12	ERI	VOBME	A3E	audible under wn jammer of ETH
DARC	7175,0	1621	10	12	ETH	ETH Govt. Jammer	JAM	white noise jammer on VOBME
DARC	7175,0	1621	10	12	ERI	VOBME	A3E	VOBME under heavy white noise jammer
DARC	7175,0	1624	11	12	ETH	ETH Govt Jammer	JAM	white noise jammer
DARC	7175,0	1624	11	12	ERI	VOBME	A3E	covered by white noise jammer
DARC	7175,0	vt	11	12	ETH	ETH Govt. Jammer	JAM	white noise jammer on VOBME, heard 1533 - 1613
DARC	7175,0	vt	11	12	ERI	VOBME	A3E	VOBME under heavy white noise jammer, heard 1533 - 1613
DARC	7175,0	0257	13	12	ERI	VOBME	A3E	at 0757 : jingle, s/on Arabic px, found // 7110
DARC	7175,0	0322	17	12	ERI	VOBME	A3E	mx, Ar px, found // 7120
DARC	7175,0	0305	18	12	ERI	VOBME	A3E	S9+25dB signal, found // 7110
DARC	7175,0	vt	vd	12	ETH	ETH Govt Jammer	JAM	heavy wn jammer from ETH, heard 01 13 at 1451, 1508
DARC	7180,0	1540	02	12	ERI	VOBME	A3E	under heavy wn jammer from ETH
DARC	7180,0	1540	02	12	ETH	ETH Govt Jammer	JAM	heavy wn jammer from ETH

CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	Remarks and Comments
DARC	7180,0	1943	18	12	ERI	VOBME	A3E	report 5P8ZY
DARC	7180,0	1725	21	12	ERI	VOBME	A3E	heard 1725 - 1802 s/off with ann.: "Eritriya"
DARC	7180,0	1648	22	12	ERI	VOBME	A3E	typical px, under white noise jammer of ETH
DARC	7180,0	1648	22	12	ETH	ETH Govt. Jammer	JAM	white noise jammer of ETH
DARC	7180,0	1622	23	12	ERI	VOBME	A3E	typical px, under white noise jammer of ETH
DARC	7180,0	1609	28	12	ETH	ETH Govt Jammer	JAM	wn jammer
DARC	7185,0	1430	06	12	ETH	ETH Govt Jammer	JAM	white noise jammer
DARC	7185,0	1430	06	12	ERI	VOBME	A3E	covered by white noise jammer
	7188,0	vt	vd	12	RUS	UiPTR	F1B	location is Orel
DARC	7189,7	0149	03	12	CLN	SLBC Sri Lanka	A3E	typical music
DARC	7189,7	0015	13	12	CLN	SLBC Sri Lanka	A3E	typical music
DARC	7189,7	0051	18	12	CLN	SLBC Sri Lanka	A3E	typical music
DARC	7190,0	1735	21	12		UiBC	A3E	totally distorted Al-Qur' an recitals, found // 7155
DARC	7190,0	1752	26	12	IND	All India Radio	A3E	crackling modulation, heard 7180 - 7200
DARC	7195,0	1336	27	12	IND	All India Radio	A3E	crackling modulation
DARC	7195,0	vt	dly	12	I	Italian Hams	A3E	ham radio net in Italian language, AM daily used, - just info
DARC	7200,0	2124	01	12	IRN	IRIB	A3E	Japanese px S9+25dB
DARC	7200,0	2058	02	12	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	12	SDN	R.Omdurman	A3E	Ar px, found // with Voice of Justice (IRIB)
DARC	7200,0	0335	03	12	IRN	Voice of Justice (IRIB)	A3E	English px S9+30dB, found // with R.Omdurman
DARC	7200,0	1648	04	12	SDN	R.Omdurman	A3E	Ar px completely distorted, at 1702: nil
DARC	7200,0	vt	04	12	IRN	IRIB	A3E	Japanese px S9+25dB heard 2115 - 2141
DARC	7200,0	2109	06	12	IRN	IRIB	A3E	Japanese px
DARC	7200,0	2132	08	12	IRN	IRIB	A3E	Japanese px S9+15dB
DARC	7200,0	1510	09	12	SDN	R.Omdurman	A3E	Ar px
DARC	7200,0	1518	09	12	AFG	Ntl.Radio of Afghanistan	A3E	s/off, followed by Indian film music, 1528: ann
DARC	7200,0	1520	13	12	AFG	Ntl.Radio of Afghanistan	A3E	tabla music
DARC	7200,0	1520	13	12	SDN	R.Omdurman	A3E	Al-Qur'an recitals
DARC	7200,0	2140	15	12	IRN	IRIB	A3E	Ja px, ann.: "7200 and 7365 kHz, 99,5 MHz"
DARC	7200,0	1936	16	12	SDN	R.Omdurman	A3E	Ar px
DARC	7200,0	0330	17	12	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	2155	17	12	IRN	IRIB	A3E	Japanese px
DARC	7200,0	0238	18	12	SDN	R.Omdurman	A3E	muezzin calling
DARC	7200,0	1529	21	12	AFG	Ntl.Radio of Afghanistan	A3E	Indian music
DARC	7200,0	1809	23	12	SDN	R.Omdurman	A3E	Arabic px S9+15dB
DARC	7200,0	1809	23	12	I	UiILL	J3E-U	2 male voices, Italian dialect, USB used!
DARC	7200,0	2132	23	12	IRN	IRIB	A3E	Japanese px S9+15dB

CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	Remarks and Comments
DARC	7200,0	vt	24	12	IRN	IRIB	A3E	jingle with piano music (2157), at 2200 s/off px
DARC	7200,0	1800	26	12		UiBC	A3E	jingle and s/on px
DARC	7200,0	2124	26	12	IRN	IRIB	A3E	Japanese px S9+10dB
DARC	7200,0	0210	27	12	SDN	R.Omdurman	A3E	Ar px
DARC	7200,0	vt	27	12	AFG	Ntl.Radio of Afghanistan	A3E	Indian music, English ann.: "This is National Radio of Afghanistan", ann. tx-ing QRG "6100 kHz", heard 1528 - 1630 s/off, S9+15dB
DARC	7200,0	1530	28	12	AFG	Ntl.Radio of Afghanistan	A3E	Indian music, English ann.: "This is National Radio of Afghanistan", S9+15dB
DARC	7200,0	2055	28	12	IRN	IRIB	N0N	warm up til 2100
DARC	7200,0	vt	30	12	SDN	R.Omdurman	A3E	heard 1500 - 1522, Ar px
DARC	7200,0	vt	dly	12	IRN	Voice of Justice / IRIB	A3E	program: 0330 - 0430: English, 2100 - 2200: Japanese - also tx-ing // on 7365 kHz
DARC	7200,0	vt	dly	12	SDN	R.Omdurman	A3E	program: 0000 - 2400: Arabic
DARC	7200,0	vt	dly	12	IRN	Voice of Justice (IRIB)	A3E	0330 - 0430
DARC	7210,0	0322	17	12	RUS	Voz de Russia (V.o.Russia)	A3E	Sp px, compl. distorted and wide banded, FM, S9+30dB, splatters down into ham band
DARC	7210,8	0238	18	12	RUS	Voz de Russia	A3E	Voice of Russia in Spanish, very overmodulated and splattery signal, rocking frequency
DARC	7210,9	0154	20	12	RUS	Voz de Russia	A3E	Spanish px, totally overmodulated and splattering
DARC	10101,0	2237	23	12	E	UiILL	J3E-U	Spanish fishery heard
DARC	10102,0	vd	vd	12	KOR	Korean Ships	J3E-U	is legal!
DARC	10104,3	1629	23	12		UiILL	J3E-U	unid male voice, unid language
DARC	10105,0	vt	vd	12	E	UiILL	J3E-U	Spanish fishery, heard 11 18 at 1927, 1909
DARC	10120,0	2000	03	12	E	UiILL	J3E-U	Spanish fishery
DARC	10121,3	2053	05	12		UiILL	J3E-U	unid pirates
DARC	10121,3	2020	27	12	F.Ea	UiILL	J3E-U	Far East pirates
DARC	10121,5	1928	17	12		UiILL	J3E-U	unid pirates, weak signals
DARC	10123,0	1934	18	12	MRC	UiILL	J3E-U	Moroccan fishery
DARC	10125,0	1652	22	12	MRC	UiILL	J3E-U	Moroccan fishery
DARC	10125,0	vt	25	12	E	UiILL	J3E-U	2 male persons in Spanish voice, heard 1730 - 1732 s/off
DARC	10125,0	vt	vd	12	MRC	UiILL	J3E-U	Moroccan fishery, heard 14 22 at 2027, 1650
DARC	10126,7	1652	22	12	F.Ea	UiILL	J3E-U	F.Ea language, different to 10125!
DARC	10127,0	1823	25	12	F.Ea	UiILL	J3E-U	pirates from Far East
DARC	10130,0	1705	20	12	E	UiILL	J3E-U	Spanish fishery
DARC	10130,0	2026	20	12	MRC	UiILL	J3E-U	Moroccan fishery
DARC	10133,4	2022	26	12	F.Ea	UiILL	J3E-U	pirates from Far East
DARC	10135,0	1830	04	12	E	UiILL	J3E-U	Spanish fishery, Spanish dialect
DARC	10136,5	1620	13	12		UiILL	J3E-U	unid male persons, unid language
DARC	10137,0	1752	26	12	IND	All India Radio	A3E	Indian music, distorted, 1752: nil
DARC	10140,0	1820	12	12		UiBC	A3E	Ar mx and px, weak signal
DARC	10140,3	1729	27	12		UiBC	A3E	2 BCs audible at the same time, spurious as no carrier!
DARC	10144,0	vt	25	12		UiBC	A3E	Portug. px heard 1720 - 1729 s/off
DARC	10150,0	1704	02	12	F.Ea	UiILL	J3E-U	Far East male net
DARC	10150,0	1813	04	12	E	UiILL	J3E-U	Spanish fishery
DARC	10150,0	1805	05	12	MRC	UiILL	J3E-U	Moroccan fishery
DARC	10150,0	1717	14	12	F.Ea	UiILL	J3E-U	Far East pirates
DARC	10150,0	1811	24	12	E	UiILL	J3E-U	Spanish male traffic, is not in ham band

CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	Remarks and Comments
DARC	10150,0	1940	27	12	MRC	UiILL	J3E-U	Moroccan and Ar voice talking about "Calamares"
DARC	14000,0	1920	03	12	B	UiILL	J3E-U	North Brazilian Intruder Net
DARC	14000,0	1940	04	12		UiILL	J3E-U	unid prirates, 240 degs. from DL
DARC	14000,0	2110	09	12	E	UiILL	J3E-U	Spanish fishery
DARC	14000,0	1800	11	12	INS	UiILL	J3E-U	Far East pirates, singing and fooling around
DARC	14000,0	1505	14	12	F.Ea	UiILL	J3E-U	Far East pirates
DARC	14000,0	1704	23	12	F.Ea	UiILL	J3E-U	pirates from Far East
DARC	14000,0	0919	28	12	MRC	UiILL	J3E-U	Moroccan fishery
DARC	14000,0	1203	29	12	CIS	UiILL	J3E-U	2 male persons in Russian voice, QTE 080 degs.
DARC	14000,6	1040	23	12	F.Ea	UiILL	J3E-U	Far East pirates
DARC	14001,2	1112	15	12	F.Ea	UiILL	J3E-U	Far East pirates, from INS?
DARC	14070,0	1612	13	12	E	UiILL	J3E-U	Spanish pirates, disturbing PKS31
DARC	14195,0	1440	27	12	I	Lis Ham	J3E-U	Italian music in order to jam IT9RYH
DARC	14295,1	1500	07	12	TJK	R.Tajikistan	A3E	3f de 4765, daily
DARC	14350,0	0816	12	12	E	UiILL	J3E-U	pirates in Spanish voice, male to female, later to 14366 --- 14350 SSB-USB is outside ham band!
DARC	18180,0	0824	05	12	CHN	Hainan Jammer	JAM	just info!
DARC	21000,0	0838	05	12	F.Ea	UiILL	J3E-U	Far East pirates
DARC	21000,0	1653	07	12	S.Am	UiILL	J3E-U	pirates from South America, Spanish voice, weak
DARC	21000,0	1450	11	12	E	UiILL	J3E-U	Spanish fishery
DARC	21000,0	1935	12	12	E	UiILL	J3E-U	Spanish voice, QTE 220 degs.
DARC	21000,0	1440	15	12	E	UiILL	J3E-U	Spanish fishery
DARC	21000,0	1110	20	12	E	UiILL	J3E-U	Spanish fishery
DARC	21000,4	0756	16	12		UiPTR	F1B	fast reversals
DARC	21002,0	0756	16	12		UiILL	J3E-U	unid male voice, unid language
DARC	21007,7	1523	25	12	MRC	UiILL	J3E-U	Moroccan fishery
DARC	21012,0	1614	09	12	MRC	UiILL	J3E-U	Moroccan fishery
DARC	21022,0	1521	10	12	E	UiILL	J3E-U	2 male persons in Spanish voice
DARC	21145,0	1040	04	12	F.Ea	UiILL	J3E-U	pirates from Far East
DARC	21205,0	0815	29	12		UiPTR	F1B	unid printer, 2f?
DARC	21392,0	1020	14	12	E	UiILL	J3E-U	Spanish fishery, male to female, "somos pescadores" - from 21395
DARC	21395,0	1019	14	12	E	UiILL	J3E-U	Spanish fishery, male to female, "somos pescadores" - to 21392
DARC	21400,0	0815	29	12	RUS	UiPTR	F1B	unid printer, is harmonic from 5350, location is area of Yekaterinburg
DARC	21438,0	0822	15	12	UKR	RCV	A1A	open msg in Russian, report DL8MCG, is RUS Navy Sevastopol
DARC	28000,0	1543	07	12		UiILL	J3E-U	male person in Arabic voice, QTE 220 degs.
DARC	28000,0	0850	16	12	CYP	OTH-Radar	FMCW	reported by Mario, DG0JBJ
DARC	**28000,0**	**ady**	**dly**	**12**	**CIS**	**taxis**	**F3E**	**28 – 29.7 MHz – numerous CIS taxis, most of them from Russia**
DARC	28006,0	vt	vd	12		Fishnet Buoys	A1A	DJ7KG, DK2OM and G3YBT spotted 98 fishnet buoys in the range 28006 - 28447 kHz
DARC	28025,0	1107	20	12	E	UiILL	A3E	Spanish CB-ers
DARC	28030,0	vt	27	12	CYP	OTH-R	FMCW	reported by Mario, DG0JBJ
DARC	28045,0	1448	06	12	B	UiILL	A3E	CB-ers from Brazil
DARC	28060,0	vt	08	12	CYP	OTH-R	FMCW	reported by Mario, DG0JBJ
	28070,0	1015	23	12	RUS	UiMUX	XXX	broadband signal, location is Niszhniy Novgorod
DARC	28100,0	vt	09	12	CYP	OTH-R	FMCW	reported by Mario, DG0JBJ
DARC	28110,0	vt	08	12	CYP	OTH-Radar	FMCW	reported by DG0JBJ, mirrors on 28060 and 18160
DARC	28115,0	1425	05	12	B	UiILL	A3E	CB-ers from Brazil
DARC	28140,0	1053	21	12	CYP	OTH-Radar	FMCW	reported by Mario, DG0JBJ, is Cyprus OTH Radar
DARC	28145,0	1455	06	12	B	UiILL	A3E	CB-ers from Brazil

CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	Remarks and Comments
DARC	28150,0	0800	13	12	RUS	UiILL	J3E-U	Vocoder Yakhta
DARC	28160,0	vt	08	12	CYP	OTH-R	FMCW	reported by Mario, DG0JBJ
DARC	28180,0	vt	06	12	CYP	OTH-Radar	FMCW	reported by Mario, DG0JBJ
DARC	28185,0	2240	02	12	RUS	UiILL	F3E	taxi or CB-er in Russian male voice, location is Moscow
DARC	28185,0	1000	09	12	E	UiILL	A3E	Spanish CB-ers
DARC	28185,0	ady	dly	12	UKR	Taxi Co.	F3E	daily active net, already pin-pointed by BNetzA Germany
DARC	28195,0	0907	15	12	UKR	UKR Taxi	F3E	UKR taxi net, location Kiev - tnx BNETZA!
	28200,0	0850	01	12	CYP	OTH-Radar	FMCW	reported by Mario, DG0JBJ - is Cyprus OTH-Radar
DARC	28235,0	1452	06	12	B	UiILL	A3E	CB-ers from Brazil
DARC	28245,0	1024	09	12	E	UiILL	A3E	Spanish CB-ers
DARC	28255,0	1453	06	12	B	UiILL	A3E	CB-ers from Brazil
DARC	28290,0	vt	07	12	CYP	OTH-Radar	FMCW	reported by Mario, DG0JBJ
DARC	28295,0	1028	09	12	E	UiILL	A3E	Spanish CB-ers
DARC	28305,0	1425	05	12	B	UiILL	A3E	CB-ers from Brazil
DARC	28305,0	1451	06	12	B	UiILL	A3E	CB-ers from Brazil
DARC	28315,0	1540	07	12	B	UiILL	J3E-U	CB-ers from Brazil
DARC	28350,0	vt	09	12	CYP	OTH-R	FMCW	reported by Mario, DG0JBJ
DARC	28390,0	vt	30	12	CYP	OTH-R	FMCW	reported by Mario, DG0JBJ
DARC	28400,0	vt	29	12	CYP	OTH-R	FMCW	reported by Mario, DG0JBJ
DARC	28425,0	0840	13	12	RUS	UiILL	J3E-U	Vocoder Yakhta, location Irkutsk
DARC	28540,0	vt	13	12	CYP	OTH-R	FMCW	reported by Mario, DG0JBJ
DARC	28650,0	vt	07	12	CYP	OTH-R	FMCW	reported by Mario, DG0JBJ
DARC	28650,0	vt	18	12	CYP	OTH-R	FMCW	reported by Mario, DG0JBJ
DARC	28710,0	vt	06	12	CYP	OTH-R	FMCW	reported by Mario, DG0JBJ
DARC	28890,0	vt	13	12	CYP	OTH-R	FMCW	reported by Mario, DG0JBJ
DARC	28980,0	1043	08	12		UiBC	A3E	BC
DARC	29000,0	vt	09	12	CYP	OTH-R	FMCW	reported by Mario, DG0JBJ
DARC	29000,0	vt	29	12	CYP	OTH-R	FMCW	reported by Mario, DG0JBJ
DARC	29000,0	vt	31	12	CYP	OTH-R	FMCW	reported by Mario, DG0JBJ
DARC	29110,0	vt	31	12	CYP	OTH-R	FMCW	reported by Mario, DG0JBJ
DARC	29200,0	vt	09	12	CYP	OTH-R	FMCW	reported by Mario, DG0JBJ
DARC	29299,0	vt	29	12	CYP	OTH-R	FMCW	reported by Mario, DG0JBJ
DARC	29300,0	vt	31	12	CYP	OTH-R	FMCW	reported by Mario, DG0JBJ
DARC	29310,0	vt	13	12	CYP	OTH-R	FMCW	reported by Mario, DG0JBJ
DARC	29370,0	vt	29	12	CYP	OTH-R	FMCW	reported by Mario, DG0JBJ
DARC	29530,0	vt	29	12	CYP	OTH-R	FMCW	reported by Mario, DG0JBJ
DARC	29590,0	vt	07	12	CYP	OTH-R	FMCW	reported by Mario, DG0JBJ
DARC	29620,0	vt	09	12	CYP	OTH-R	FMCW	reported by Mario, DG0JBJ
DARC	29650,0	vt	09	12	CYP	OTH-R	FMCW	reported by Mario, DG0JBJ
DARC	29675,0	vt	04	12	CYP	OTH-R	FMCW	reported by Mario, DG0JBJ

DARC 2 – Germany - DK2OM (Wolf)

PSE observe:

FSK transmissions -> center frequency between mark and space

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

ALE (MIL188-141A) -> USB frequency – exclusive bands: black – nonexclusive: 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	12	POL		A3E			Polish "PIP" – 10 tones – navigation system - North-Poland – Baltic coast - POL Navy – legal operation
DARC	1876,8	ady	dly	12	G		PSK8	2400	2400	Stanag4285 - 1200 bps long - Scotland
DARC	1896,5	ady	dly	12	D		PSK8	2400	2400	Stanag4285 - 600 bps long - German Navy

DARC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DARC	3500,0	vt	dly	12	TUR	no ITU	FSK8	125	1750	ALE, “2015” “2016” “1020” “3010”- Turkish Red Crescent - legal
DARC	3503,5	vt	dly	12	G	no ITU	FSK8	125	1750	ALE – “XSS” “XPU” – British MIL Tascomm
DARC	3506,5	1920	15	12	RUS		F1B	50	250	weak signal
DARC	3510,0	vt	dly	12	ALG	no ITU	FSK8	125	1750	ALE, “JE30” “PT30”
DARC	3510,0	1935	12	12	ISR		PSK4	75	2260	MIL-188-110A - hybrid - burst
DARC	3515,0	1518	18	12	BLR		PSK4	120	2600	AT3104D - North BLR
DARC	3524,0	2055	13	12	RUS		F1B	75	250	Kaliningrad
DARC	3527,0	1900	dly	12	RUS		F1B	50	200	Severomorsk - daily
DARC	3529,0	2100	08	12	UKR		PSK2	120	2600	AT3004D - UKR
DARC	3530,0	1820	02	12	BLR		F1B	100	250	NW of Minsk - idling, bad signal
DARC	3531,0	1900	dly	12	RUS		A1A			33 dots/sec - Kaliningrad
DARC	3533,0	vt	dly	12	E	no ITU	FSK8	125	1750	ALE, “TZSC2” “TWBZ1” - Spanish Guardia Civil
DARC	3539,88	2200	22	12	EST		F1B	120	500	BUL-FSK - area of Tallin
DARC	3545,0	vt	dly	12	ALG	no ITU	FSK8	125	1750	ALE, “FL49” “FL57” “PT50” - ALG MIL + voice traffic USB and scrambler
DARC	3548,0	1810	25	12	RUS		F1B	50	200	Central Russia
DARC	3550,8	2025	05	12	ISR		PSK4	75	2260	MIL-188-110A - hybrid - burst
DARC	3553,8	ady	dly	12	TUR		PSK8	2400	2400	Stanag4285 – TUR MIL - Ankara
DARC	3557,0	1630	09	12	RUS		PSK2	120	2600	AT3004D - St. Petersburg
DARC	3558,0	vt	dly	12			FSK8	125	1750	ALE, “102” “206”
DARC	3560,0	2044	14	12	RUS		PSK2	120	2600	AT3004D - St. Petersburg
DARC	3561,8	2008	15	12	AZB		F1B	100	170	Codan, idents: 10224, 11599 – very active – location: Baku
DARC	3570,5	2022	15	12	KAZ		F1B	81.1	130	area of Kazakhstan
DARC	3572,0	2011	12	12	BLR		PSK2	120	2600	AT3004D - Minsk
DARC	3579,5	2024	28	12	BLR		F1B	81	500	Minsk
DARC	3582,0	1951	13	12	RUS		PSK2	120	2600	AT3004D -
DARC	3582,5	0806	15	12	RUS		F1B	50	200	St. Petersburg
DARC	3585,0	1700	dly	12	TWN	HLL	F1C			120 rpm, IOC 576, Wxfax - legal!
DARC	3589,9	1939	26	12	EST		F1B	120	500	BUL-FSK - area of Tallin
DARC	3590,0	vt	dly	12	PAK	no ITU	FSK8	125	1750	ALE, “KW” “ZULFIQUAR1” “KHAIBAR” “SAIF1” “NRS”- Pakistan Navy
DARC	3593,7	2037	07	12	UKR	D	A1A			beacon “D” – RUS Navy Sevastopol
DARC	3593,9	2039	07	12	RUS	S	A1A			beacon “S” – RUS Navy Murmansk
DARC	3595,0	vt	dly	12	D	no ITU	FSK8	125	1750	ALE, „ZLST“ „ZPRI“ „ZSHO“ „ZBOR“ „ZEMD“ „ ZHEL“ „ZKNI“ „ZBOR“ „BPLEZS“ German customs – North-Germany
DARC	3596,0	vt	dly	12	HRV	9A0ALE	FSK8	125	1750	Croatian emergency ALE-net --- for info!
DARC	3601,0	vt	vd	12	D	DA0EC	PSK8	2000	2000	RFSM 8000 – amateur emergency net - Berlin - legal operation - just for info!!!
DARC	3603,0	vt	dly	12	ALG?	no ITU	FSK8	125	1750	ALE, “PT01JL94” “JL05JL94”
DARC	3610,0	2057	04	12	RUS		F1B	50	200	Kaliningrad - daily
DARC	3610,0	vt	dly	12	D		PSK8	200	500	German APRS Net in Robust Packet - just for info!
DARC	3617,0	vt	dly	12	HRV	9A5EX	FSK8	125	1750	ALE, “9A5EX1P” – HAM-ALE - just for info
DARC	3622,5	2000	dly	12	J	JMH	F1C			Tokyo Meteo – 120 rpm – IOC576 – daily, legal!!!
DARC	3658,0	2245	16	12	UKR		A1A			series of “V” - Donetsk
DARC	3685,5	2100	19	12	POL		F1B	150	200	north Poland
DARC	3699,5	1819	02	12	RUS		F1B	50	200	Kaliningrad
DARC	3756,0	ady	dly	12	UKR		A3E			UKR – pip – 10 tones –

DARC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										navigation system
DARC	3775,0	1925	10	12	MEa		A1A			encrypted msgs – ship Black Sea
DARC	3782,0	ady	dly	12	POR	CTP	F1B	75	850	POR Navy headquarter Lisbon
DARC	7000,0	1500	dly	12	IND	AIR	noise		80k	broadband noise 6960 - 7040 - area of New Delhi – spurious from All India Radio on 7410 kHz – daily in December
DARC	7000,0	1700	18	12	MRC		N0N			long lasting carrier – area of Rabat
DARC	7000,0	1800	20	12	CHN		FMCW		80k	Chinese OTHR – 43.5 sps – 6940 – 7020 kHz
DARC	7000,0	1729	19	12			PSK8	2400	2400	MIL-188-110A -
DARC	7000,8	1034	07	12	RUS		OFDM	22.4	2950	OFDM112 – Severomorsk – bursts with 8 introtones and continuous version
DARC	7008,0	1748	18	12	CHN		FMCW		32k	Chinese Coastal Radar – 2.6 sps – 7008 – 7040 kHz
DARC	7010,0	0846	10	12	CHN		FMCW		60k	CHN OTH Radar – 43.5 sps – 6950 –7010 kHz – also audible on USA West-coast
DARC	7014,0	0750	07	12	RUS		PSK2	120	2600	AT3004D - south of Moscow
DARC	7018,0	1532	03	12	RUS	REA4	F1B	50	1000	Russian airforce Moscow
DARC	7020,0	vt	dly	12		no ITU	FSK8	125	1750	ALE, “RS0013” “CS004A” NATO NC3A-network
DARC	7022,0	1726	13	12	ARM		PSK2	120	2600	AT3004D - area of Armenia
DARC	7038,7	ady	dly	12	UKR	D	A1A			Cluster beacon – Sevastopol RUS Navy – **“RCV”**
DARC	7038,8	ady	dly	12	RUS	P	A1A			Cluster beacon – Kaliningrad RUS Navy – **“RMP”**
DARC	7038,9	ady	dly	12	RUS	S	A1A			Cluster beacon – Murmansk RUS Navy – **„RIT“**
DARC	7039,0	ady	dly	12	RUS	C	A1A			Cluster beacon - Moscow RUS Navy - **“RIW”**
DARC	7039,1	vt	dly	12	KGZ	A	A1A			Cluster beacon – Bishkek RUS Navy – **“RJH25”**
DARC	7039,2	ady	dly	12	RUS	F	A1A			Cluster beacon - Vladivostok RUS Navy - **“RJS”**
DARC	7039,3	vt	dly	12	RUS	K	A1A			Cluster beacon - Petropavlovsk Kamchatskiy - RUS Navy - Pacific fleet - **“RCC”**
DARC	7039,4	1437	03	12	RUS	M	A1A			Cluster beacon – Magadan RUS Navy – **„RTS“**
DARC	7040,5	vt	dly	12	HRV	9A5EX	FSK8	125	1750	ALE, “9A5EX” - just for info!
DARC	7041,8	ady	dly	12	RUS	L	A1A			Cluster beacon “L” - St. Petersburg - **“RJC66”**
DARC	7049,5	vt	dly	12	F	F4BXW1	FSK8	125	1750	ALE, “F4BXW1” - just for info!
DARC	7050,0	2040	29	12	RUS		FMCW		10k	bursts of 3 sec – 41.7 sps
DARC	7054,0	1800	dly	12	RUS		F1B	50	200	CIS50-50 - RUS Navy Moscow – strange signal
DARC	7057,3	2205	21	12	CAN	no ITU	PSK8 FSK8	2400 125	2400 1750	MIL-188-110A and MIL-188-141A – “168” - Halifax
DARC	7061,0	1814	12	12						frequency hopper
DARC	7063,5	1805	12	12	NEu		F1B	75	200	ship - east of Scotland
DARC	7065,0	vt	dly	12	HRV	9A5EX	FSK8	125	1750	ALE, “9A5EX” - just for info!
DARC	7066,0	2013	16	12	CHN		FMCW		32k	Chinese Coastal Radar – 2.6 sps – 7066 – 7098 kHz
DARC	7070,0	1045	20	12	CHN		FMCW		50k	OTH Radar China – 43.5 sps – 7070 – 7120 kHz
DARC	7088,0	0833	18	12	RUS		PSK2	120	2600	AT3004D - ship - Gulf of Biscaya
DARC	7095,0	1048	07	12	CHN		FMCW		35k	Chinese Coastal Radar – 2.6 sps – 7095 – 7130 kHz
DARC	7099,5	vt	dly	12	HRV	9A0ZG	FSK8	125	1750	ALE, “9A0ZG” - just for info
DARC	7102,0	vt	dly	12	HRV		FSK8	125	1750	ALE, “9A3COL” – just for info!
DARC	7110,5	vt	dly	12	HRV	9A0ALE	FSK8	125	1750	ALE, amateur net, just for info!
DARC	7111,9	vt	dly	12	KWT	no ITU	FSK8	125	1750	ALE, “UDAIRI” “ATFOPS” –

DARC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										UDAIRI = US MIL Camp Buehring / Kuwait
DARC	7115,0	2143	30	12	?		FSK8	125	1750	ALE, "RC1" "070707821"
DARC	7115,0	1640	19	12	CHN		FMCW		45k	Chinese OTHR – 43.5 sps - 7115 – 7160 kHz
DARC	7130,0	1440	13	12	CHN		FMCW		40k	Chinese OTHR – 43.5 sps - 7130 – 7170 kHz
DARC	7130,0	1625	20	12						frequency hopper
DARC	7132,0	1453	01	12	RUS		PSK2	120	2600	AT3004D - Kaliningrad
DARC	7134,0	1426	29	12	RUS		FMCW		10k	bursts of 3 sec – 41.7sps
DARC	7135,0	1939	13	12	CHN		FMCW		55k	Chinese OTHR – 43.5 sps - 7130 – 7185 kHz
DARC	7142,0	0950	16	12	RUS		F1B	75	250	Kaliningrad
DARC	7144,0	0911	29	12	RUS		PSK2	120	2600	AT3004D -
DARC	7180,0	vt	dly	12	MRC	no ITU	FSK8	125	1750	ALE, "9201" "6350" "RC1"
DARC	7184,0	1450	13	12	NEu		PSK2	120	2600	AT3004D - ship east of Scotland
DARC	7185,5	vt	dly	11	F	F4BXW	FSK8	125	1750	ALE, "F4BXW" - just for info!
DARC	7188,0	1230	31	12	RUS		F1B	75	250	Orel
DARC	10106,0	vt	dly	12	ALG	no ITU	FSK8	125	1750	ALE, "OG100A" "OR200B" - Algerian MIL
DARC	10107,0	vt	dly	12			FSK8	125	1750	ALE, "193"
DARC	10110,0	vt	vd	12	SNG		FSK8	125	1750	ALE, "CN6" "68" – Singapore Navy - Changi Naval Base with frigate "RSS Formidable"
DARC	10112,0	ady	dly	12	TUR		PSK8	2400	2400	Stanag4285 – 600 bps long – TUR MIL - Izmir
DARC	10115,0	vt	dly	12		no ITU	FSK8	125	1750	ALE, "2001", "2011"
DARC	10120,0	vt	dly	12		no ITU	FSK2	125	1750	ALE, "9066" "9067"
DARC	10120,0	1507	25	12	CHN		FMCW		40k	Chinese coastal Radar – 2.6 sps – 10120 – 10160 kHz
DARC	10121,0	1207	09	12	RUS		F1B	75	250	SE of Moscow
DARC	10122,0	1730	14	12	RUS		MFSK		1326	CIS36 – 34 tones visible
DARC	10123,0	1511	25	12						frequency hopper
DARC	10130,0	0645	dly	12	USA		F1B	50	850	USA - Maine
DARC	10130,0	vt	dly	12			FSK8	125	1750	Thales 3000
DARC	10130,0	2036	15	12		no ITU	FSK8	125	1750	ALE, "9VT"
DARC	10130,0	2106	09	12						frequency hopper
DARC	10134,0	vt	dly	12	ALG	no ITU	FSK8	125	1750	ALE, "CM4" "COF" - Algerian Airforce
DARC	10136,5	vt	dly	12	F	F4BXW	FSK8	125	1750	ALE, "F4BXW" - just for info!
DARC	10145,0	2034	29	12	CYP		FMCW		20k	OTH Radar Cyprus, 50 sps
DARC	10145,5	vt	dly	12	HRV	9A5EX	FSK8	125	1750	ALE, 9A5EX, just for info!
DARC	10146,0	vt	dly	12	ALG		FSK8	125	1750	ALE, "ORG" "CM4" – ALG Airforce
DARC	10150,0	2220	08	12			FMCW		20k	OTH Radar Cyprus – 50sps
DARC	10150,0	vt	dly	12		no ITU	FSK8	125	1750	ALE, "CFA" "CTA"
DARC	14000,0	vt	dly	12	CYP	no ITU	FSK8	125	1750	ALE, "091" "1010"
DARC	14000,0	2040	01	12	CYP		FMCW		20k	OTH Radar Cyprus - 50 sps
DARC	14024,0	1042	26	12	RUS		PSK2	120	2600	AT3004D - Moscow
DARC	14037,0	vt	dly	12		no ITU	FSK8	125	1750	ALE, "313" "132" "932"
DARC	14116,0	0720	28	12	RUS		F1B	75	250	Velikije Luki
DARC	14192,0	vt	vd	12	RUS		F1B	50	500 200	CIS50-50 - RUS Navy Kaliningrad
DARC	14247,0	vt	dly	12	E	no ITU	FSK8	125	1750	ALE, "151" "250"
DARC	14253,2	1030	23	12	RUS		F!B	50	500	unstable
DARC	14308,0	0643	06	12	RUS		F1B	75	500	Velikije Luki
DARC	14315,8	1036	31	12			PSK8	2400	2400	Link11 – SLEW -
DARC	14316,0	vt	dly	12	?	no ITU	FSK8	125	1750	ALE, "601" "611"
DARC	14325,1	vt	vd	12	FEa	no ITU	FSK8	125	1750	ALE, "776" "699" "475"
DARC	14328,0	0655	01	12	CHN		OFDM			OFDM39 – West China
DARC	14341,0	vt	31	12	I		FSK8	125	1750	ALE, "20" - area of Rome
DARC	14343,0	vt	dly	12		no ITU	FSK8	125	1750	ALE, "L06" "A98"
DARC	14343,0	ady	dly	12	CHN		PSK8	2400	2400	MIL-188-110A – 600 bps short - intro tone ACARS like – burst system

DARC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DARC	18079,3	0800	27	12	CHN		PSK4	75	2250	PRC4+4
DARC	18089,0	0801	27	12	RUS		MFSK		1326	CIS36 -
DARC	18103,0	1137	02	12						frequency hopper
DARC	18107,0	vt	vd	12	RUS		F1B	36/50	200	Moscow
DARC	21000,0	vt	dly	12		no ITU	FSK8	125	1750	ALE, "Y" "M7X"
DARC	21000,0	0908	29	12	CYP		FMCW		20k	OTH Radar Cyprus, 50 sps
DARC	21001,5	1040	10	12	TUR		OFDM	72.5	1900	OFDM22 – Istanbul
DARC	21030,0	1144	14	12	TUR		FMCW		20k	OTH Radar - 50 sps - NW Turkey
DARC	21070,0	1525	17	12						frequency hopper
DARC	21089,5	vt	dly	12	HRV	9A5EX	FSK8	125	1750	ALE, "9A5EX" - just for info!
DARC	21146,0	0735	20	12	RUS		FMCW		10k	RUS OTHR – 50 sps – 2.6 sec bursts
DARC	21150,0	0910	25	12	TUR		FMCW		20	OTH Radar Turkey, 50 sps
DARC	21285,0	1040	23	12	CYP		FMCW		20k	OTH Radar Cyprus, 50 sps
DARC	21310,0	0730	20	12	RUS		FMCW		10k	RUS OTHR – 50 sps – 2.6 sec bursts – jumping 21146,0
DARC	21325,0	0733	09	12	TUR		FMCW		20k	OTH Radar NW-Turkey, 50 sps
DARC	21342,0	0824	23	12	RUS		F1B	48	200	
DARC	**21390,0**	**1124**	**18**	**12**	**CYP**		**FMCW**		**20k**	**OTH Radar Cyprus, 50 sps**
DARC	21400,0	0825	01	12	RUS		F1B	50 async	2000	harmonic from 5350 – area of Jekaterinburg - daily
DARC	21438,0	vt	vd	12	UKR	RCV	A1A			RIP90 de RCV - RUS Navy Sevastopol
DARC	21440,8	vt	vd	12	AFG		PSK8	2400	2400	MIL-188-110A and Link11-SLEW
DARC	21450,0	1115	27	12	CYP		FMCW		20k	OTH Radar Cyprus, 50 sps
DARC	24898,0	1105	20	12						frequency hopper
DARC	24900,0	0756	20	12	CYP		FMCW		20k	OTH Radar Cyprus, 50 sps
DARC	24990,0	1055	30	12	CYP		FMCW		20k	OTH Radar Cyprus, 50 sps
DARC	25000,0	ady	dly	12	FIN		A3E			time signal Helsinki – just for info – carrier on 25000 – dots on 25001
DARC	**28000,0**	**0849**	**16**	**12**	**CYP**		**FMCW**		**20k**	**OTH Radar Cyprus, 50 sps**
DARC	28020,0	1212	27	12	CYP		FMCW		20k	OTH Radar Cyprus, 50 sps
DARC	28070,0	1015	23	12	RUS					broadband signal – Nizhniy Novgorod
DARC	28100,4	1006	09	12	POR		F1B	51	300	F1B – bursts – 3.2 sec
DARC	28100,8	1017	09	12	POR		F1B	51	300	F1B – bursts – 3.2 sec
DARC	28102,2	1007	09	12	POR		F1B	51	300	F1B – bursts – 3.2 sec
DARC	28122,0	1156	09	12						frequency hopper
DARC	**28140,0**	**1053**	**21**	**12**	**CYP**		**FMCW**		**20k**	**OTH Radar Cyprus, 50 sps**
DARC	28151,5	0758	13	12	RUS		F1B	100	150	Yakhta synchro - Irkutsk
DARC	28151,7	0817	27	12			F1B	1200	850	
DARC	**28200,0**	**0850**	**01**	**12**	**CYP**		**FMCW**		**20k**	**OTH Radar Cyprus, 50 sps**
DARC	28425,0	0840	13	12	RUS		F1B	100	150	Yakhta synchro - Irkutsk
DARC	29920,0	1219	03	12	RUS		F1B	50	2000	4th from 7480 – area of Volgograd

IRTS – Ireland – EI4GXB (Ger)

KARS – Kuwait – 9K2RR (Faisal)

MRASZ – Hungary - HA7PL (Laci)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
MRASZ	7012.0	1802	17	12			noise			wide noise till 7089.0 peak at: 7018, 7022, 7157, 7189
MRASZ	7018.0	1620	07	12			A1A			dot's
MRASZ	7020.0	1759	17	12			noise			till 7025.0
MRASZ	7034.0	1556	07	12	ITA?		J3E-L			male's, italian language, no call
MRASZ	7038.7	vt	vd	12	UKR	D	A1A			beacon "D"
MRASZ	7038.9	vt	vd	12	RUS	S	A1A			beacon "S"
MRASZ	7039.0	vt	vd	12	RUS	C	A1A			beacon "C"
MRASZ	7041.8	vt	vd1	12	RUS	L	A1A			beacon "L"
MRASZ	7044.0	1957	04	12		Ui printer	F1B			
MRASZ	7054.0	1900	18	12	RUS		F1B	50	200	
MRASZ	7090.0	1612	07	12		Uifax	FAX			
MRASZ	7103.0	1611	07	12			noise			wide noise till 7117.0
MRASZ	7105.0	2003	04	12		UiBC	A3E			only carrier
MRASZ	7120.0	1657	01	12		UiBC	A3E			+ Very strong jammer
MRASZ	7165.0	1716	16	12		UiBC	A3E			music
MRASZ	7175.0	1713	07	12		UiBC	A3E			arabian women
MRASZ	7179.0	2000	04	12		UiBC	A3E			
MRASZ	7180.0	1610	07	12		UiBC	A3E			
MRASZ	7180.0	1554	01	12		UiBC	A3E			disturbed with jammer
MRASZ	7189.0	1654	11	12			noise			
MRASZ	7195.0	1553	01	12		UiBC	A3E			
MRASZ	7200.0	1553	01	12		UiBC	A3E			
MRASZ	7200.0	2001	04	12		UiBC	A3E			russian language
MRASZ	14192.0	0922	17	12		Ui printer	F1B			REA4?

OEVSV – Austria – OE3DMA (Alex)

PZK – Poland – SP3UZ (Wladyslaw)

REP – Portugal – CT4AN (Jose Francisco)

SOC	KHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REP	3505,0	21.29	12	12	E		J3E-U			Fishermen
REP	3510,5	08.33	10	12	E		J3E-U			Fishermen
REP	3615,0	00.07	18	12	MRC		J3E-U			Fishermen
REP	3710,0	17.47	07	12	n.i.		J3E-U			Fishermen (legal nautical freq.)
REP	7038,6	20.12	19	12	RUS	S	A1A			KALININGRAD, ADY, DLY 12.5uV S7
REP	7038,7	23.56	22	12	UKR	D	A1A			SEVASTOPOL, ADY, DLY 6.3uV S6
REP	7038,8	23.18	22	12	RUS	P	A1A			MURMANSK, ADY, DLY 0.2uV S1
REP	7039,0	23.09	22	12	RUS	C	A1A			MOSCOW, ADY, DLY 6.3uV S6
REP	7039,3	21.45	16	12	RUS	K	A1A			VOLGOGRAD, ADY, DLY 3.1uV S5
REP	7039,5	22.55	16	12	RUS	M	A1A			MAGADAN, ADY, DLY 6.3uV S6
REP	7045,0	18.05	18	12	E		J3E-U			Fishermen
REP	7050,0	04.02	16	12	MRC		J3E-U			Fishermen
REP	7070,0	05.10	14	12	E		J3E-U			Fishermen – not attending QSY requests
REP	7105,0	22.50	12	12	CHN		8k00 A3EGN			Radio - Chinese 25uV S8
REP	7118,0	22.07	19	12	n.i.		F1B			RTTY not standard
REP	7175,0	17.48	30	12	n.i.		8k00 A3EGN			Broadcasting with music / speech 50uV S9
REP	7185,0	08.10	20	12	E		J3E-U			Fishermen
REP	10102,5	19.21	11	12	MRC		J3E-U			Fishermen
REP	10125,0	21.36	15	12	n.i.		J3E-L			Fishermen
REP	14000,0	08.00	14	12	n.i.		F1B	300	850	RY, RY, RY (inv)
REP	14003,0	08.15	21	12	E		J3E-U			Fishermen
REP	14010,0	08.38	14	12	MRC		J3E-U			Fishermen
REP	14100,0	21.20	22	12	n.i.		J3E-U			English male voices – any Calls
REP	18100,0	18.32	10	12	n.i.		A1			Continuous Carrier 158uV S9+10
REP	21010,0	19.09	29	12	n.i.		J3E-U			Arab language talks
REP	21012,5	07.54	12	12	n.i.		J3E-U			Fishermen on sea
REP	28000,0	21.42	09	12	n.i.		Noise			PLC – Wideband signal during 12 hours
REP	28245,0	11.15	04	12	RUS		F3E			Taxis

RSGB - Great Britain – G4BOH (Chris)

SRAL – Finland – OH2BLU (Pekka)

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
SRAL	7000,0	0820	12	12		UiMUX	J7D	12x120	12x200	
SRAL	7008,0	1020	23	12		UiPTR	F1B			
SRAL	7012,0	1130	12	12		UiMUX	J7D	12x120	12x200	
SRAL	7012,0	0930-1400	*	12		UiPTR	F1B		250	Days: 2, 13, 22
SRAL	7014,0	0940	1	12		UiPTR	F1B			
SRAL	7014,0	0735-1200	*	12		UiMUX	J7D	12x120	12x200	Days: 7, 22, 30
SRAL	7014,0	1030	24	12		UiPTR	F1B		250	
SRAL	7016,0	1005	17	12		UiMUX	J7D	12x120	12x200	
SRAL	7018,0	0945-1900	3-5	12		UiPTR	F1B		500/1000	
SRAL	7018,75	0950-1330	13	12		UiCarr	N0N			Space of F1 on 7019 kHz?
SRAL	7025,0	0645-1415	5, 15	12		UiPTR	F1B			
SRAL	7030,0	0700-1330	20	12		UiPTR	F1B		250	
SRAL	7038,7	h24	dly	12	UKR	D	A1A			Sevastopol, on 2nd to 3rd L
SRAL	7038,9	h24	dly	12	RUS	S	A1A			Severomorsk
SRAL	7039,0	h24	dly	12	RUS	C	A1A			Moscow
SRAL	7039,1	1450-1930	*	12	KGZ	A	A1A			Kirgisistan, days: 2, 3, 8, 9, 11, 19, 20 (on 19: –100Hz)
SRAL	7041,0	0915	24	12		eee	A1A			dotter
SRAL	7041,2	0900-1300	10, 11	12		eee	A1A			dotter
SRAL	7041,8	h24	dly	12	RUS	L	A1A			St Peterburg
SRAL	7054,0	0500-0700	dly	12	RUS	REA4	F1B		200	Moscow
SRAL	7054,0	1700-2000	dly	12	RUS	REA4	F1B		200	Moscow
SRAL	7054,6	0855-1325	25	12		eee	A1A			dotter
SRAL	7056,0	1650	29	12		UiOTHR	P0N			10kHz/40Hz, 6 sec / 36 sec (see 7156 kHz)
SRAL	7098,0	0650-1500	*	12		UiPTR	F1B		250	Days: 11-15, 26
SRAL	7111,0	1200-1220	14	12		UiPTR	F1B		250	
SRAL	7118,0	0800-1300	7, 16	12		UiPTR	F1B			
SRAL	7120,0	0300-0615	dly	12	ERI	VoBME 1	A3E			jammed by ETH, QSY 7100 - 7130 kHz
SRAL	7120,0	1415-1800	dly	12	ERI	VoBME 1	A3E			QSY 7100 – 7130 kHz, on 30th until 1900, jammed by ETH until 1700,
SRAL	7123,0	0700-1200	10, 30	12	RUS	UiMUX	J7D	12x120	12x200	
SRAL	7132,0	1200-1530	1	12	RUS	UiMUX	J7D	12x120	12x200	
SRAL	7138,0	1215	28	12	RUS	UiMUX	J7D	12x120	12x200	
SRAL	7142,0	0430-1430	*	12		UiPTR	F1B		250	Days: 9, 13, 16, 24, 28. Kaliningrad
SRAL	7144,0	0645-0815	8	12	RUS	UiMUX	J7D	12x120	12x200	
SRAL	7156,0	1650	29	12		UiOTHR	P0N			10kHz/40Hz, 6 sec / 36 sec (other 4 freq‘s below 7 MHz)
SRAL	7162,0	0600-	12,	12		UiPTR	F1B		250	

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
		1300	20							
SRAL	7164,0	0725-0900	25	12	RUS	UiMUX	J7D	12x120	12x200	
SRAL	7167,0	0650-1300	22, 26	12		UiPTR	F1B		250	
SRAL	7175,0	0300-0630	dly	12	ERI	VoBME 2	A3E			jammed by ETH, QSY 7160 – 7190 kHz
SRAL	7175,0	1400-1805	dly	12	ERI	VoBME 2	A3E			QSY 7160 –7190 kHz, on 30th until 1900, jammed by ETH until 1700,
SRAL	7176,0	1305-1500	19	12	RUS	UiMUX	J7D	12x120	12x200	
SRAL	7186,0	0630-1800	5, 6, 13	12	RUS	UiMUX	J7D	12x120	12x200	
SARL	7190,0	0030-0200	*	12	CLN	Sri Lanka	A3E			Days: 13, 15, 17, 25
SRAL	7193,0	0700-1500	*	12		UiPTR	F1B		200	Days: 1, 4, 6, 9, 11, 14, 15, 18 – 21, 23 - 27
SRAL	7198,0	0700-1400	1-5	12		UiMUX	J7D	12x120	12x200	
SRAL	7199,0	0720-0743/	30	12		UiPTR	F1B		250	
SRAL	7200,0	0400-0700	dly	12	SDN	R Sudan	A3E			
SRAL	7200,0	1330-1530	dly	12	SDN	R Sudan	A3E			
SRAL	7200,0	1730-2130	dly	12	SDN	R Sudan	A3E			
SRAL	7200,0	1520-1630	dly	12	AFG	R.Afganistan	A3E			
SRAL	7200,0	1330-1900	11-31	12	ERI	VoBME 1	A3E			jammed by ETH, QSY from 7205 kHz
SRAL	14111,0	1155	24	12		UiPTR	F1B			
SRAL	14116,0	1010	22	12		UiMUX	J7D	12x120	12x200	
SRAL	14150,0	0645	16	12		UiOTHR	P0N			10kHz/ 10Hz
SRAL	14192,0	0955-1405	11 - 25	12	RUS	UiPTR	F1B		500	Kaliningrad
SRAL	14212,0	-1220/	6	12		UiPTR	F1B		500	37.7 Hz dotter
SRAL	14240,0	0700-0800	1, 5	12		UiPTR	F1B		250	
SRAL	14262,0	0755	2	12		UiPTR	F1B			
SRAL	14268,0	0800	3	12		UiPTR	F1B		250	
SRAL	14295,1	0500-1500	dly	12	TJK	R Tojikiston	A3E			3f 4765,05 kHz, Yangiyul TX
SRAL	14308,0	0750	22	12		UiPTR	F1B			
SRAL	28 MHz	0730-1400	*	12	CYP	UiOTHR	P0N			Days: 1, 5, 8, 11, 13, 16,19, 21, 30, 20 kHz/ 50 Hz
SRAL	28 MHz	0715-1250	dly	12	CIS	UiVOX	F3E			244 reports

USKA – Switzerland – HB9CET (Peter)

USKA - part 1										
SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	7000.0	2336	04	12		2214	MFSK8	125	1750	MIL 188-141A often
USKA	7000.0	0036	05	12		TAJMED	MFSK8	125	1750	MIL 188-141A often
USKA	7000.0	0322	24	12		2411	MFSK8	125	1750	MIL 188-141A often
USKA	7000.0	1631	05	12			J3E-U			english
USKA	7000.0	1659	05	12			J3E-U			spanish
USKA	7000.0	0326	06	12			MFSK8	125	1750	MIL 188-141A, TO: A14
USKA	7000.0	1859	18	12	IND	AIR	Noise		~ 80 k	(approx 6960-7040) almost daily
USKA	7000.0	2211	18	12			N0N			long lasting carrier

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	7018.0	1752	04	12		REA4	F1B	50	1000	
USKA	7018.0	0957	07	12			A1			lasting fast dots only
USKA	7018.865	0706	06	12			F1B	40.5	500	
USKA	7022.0	2316	13	12			J7D	12x120	2k6	CIS-12 idling only
USKA	7026.0	2308	13	12			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D
USKA	7030.0	2325	13	12			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D
USKA	7030.0	1115	20	12			F1B	75	250	
USKA	7038.3	2209	02	12	RUS	K	A1A			Beacon K Petropavlovsk
USKA	7038.7	1739	02	12	UKR	D	A1A			Beacon D Sevastopol daily
USKA	7038.9	0629	06	12	RUS	S	A1A			Beacon S Murmansk daily
USKA	7039.0	1740	02	12	RUS	C	A1A			Beacon C Moscow daily
USKA	7039.1	1742	02	12		A	A1A			Beacon A daily
USKA	7039.2	2212	02	12	RUS	F	A1A			Beacon F Vladivostok daily
USKA	7039.4	2205	06	12	RUS	M	A1A			Beacon M Magadan daily
USKA	7041.8	1744	02	12		L	A1A			Beacon L daily
USKA	7054.0	1802	18	12			F1B	50	200	daily
USKA	7065.0	2150	16	12			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D
USKA	7070.0	1817	06	12		244	MFSK8	125	1750	MIL 188-141A
USKA	7070.0	1728	09	12		571	MFSK8	125	1750	MIL 188-141A
USKA	7070.0	2050	09	12		810203	MFSK8	125	1750	MIL 188-141A
USKA	7070.0	2059	09	12		810499	MFSK8	125	1750	MIL 188-141A
USKA	7070.0	2101	09	12		810201	MFSK8	125	1750	MIL 188-141A
USKA	7070.0	2107	09	12		210	MFSK8	125	1750	MIL 188-141A
USKA	7070.0	0149	10	12		20923	MFSK8	125	1750	MIL 188-141A
USKA	7070.0	0158	10	12		820499	MFSK8	125	1750	MIL 188-141A
USKA	7070.0	0203	10	12		20868	MFSK8	125	1750	MIL 188-141A
USKA	7070.0	0219	10	12		810799	MFSK8	125	1750	MIL 188-141A
USKA	7070.0	0510	10	12		686	MFSK8	125	1750	MIL 188-141A
USKA	7070.0	0513	10	12		514	MFSK8	125	1750	MIL 188-141A
USKA	7070.0	2047	15	12			J7D	12x120	2k6	CIS-12 idling only
USKA	7070.0	2047	16	12			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D
USKA	7088.8	1613	21	12			A1A			figures and letters only
USKA	7089.7	1621	05	12			PSK-8	2400	2400	Link 11- SLEW often
USKA	7100.0	1651	11	12			A3E			BC, jammed
USKA	7100.0	1651	11	12			Noise		10 kHz	Jammer
USKA	7105.0	2217	02	12		TWN	A3E			BC (2 stations) daily
USKA	7105.0	2217	02	12		CHN	A3E			BC (2 stations) daily
USKA	7110.0	1602	07	12			A3E			BC, jammed
USKA	7110.0	1602	07	12			Noise		10 kHz	Jammer
USKA	7111.9	2103	12	12		UDAIRI	MFSK8	125	1750	MIL 188-141A
USKA	7119.0	2231	06	12			J7D	12x120	2k6	BPSK CIS12 = AT3004D
USKA	7120.0	1643	05	12			A3E			BC, jammed often
USKA	7120.0	1643	05	12			Noise		10 kHz	Jammer often
USKA	7159.0	0819	06	12			F1B	75	200	
USKA	7165.0	1541	06	12			A3E			BC, jammed often
USKA	7165.0	1541	06	12			Noise		10 kHz	Jammer often
USKA	7170.0	1730	02	12			A3E			BC, unid Voice + Music
USKA	7175.0	1437	11	12			A3E			BC, jammed often
USKA	7175.0	1437	11	12			Noise		10 kHz	Jammer often
USKA	7180.0	1645	05	12			A3E			BC, jammed often
USKA	7180.0	1645	05	12			Noise		10 kHz	Jammer often
USKA	7185.0	1552	06	12			A3E			BC, jammed often
USKA	7185.0	1552	06	12			Noise		10 kHz	Jammer often
USKA	7186.0	1605	05	12			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D often
USKA	7189.8	0114	16	12			A3E			BC; Voice and music
USKA	7198.0	0641	06	12			J7D	12x120	2k6	PSK-4: CIS12 = AT3104D often
USKA	7200.0	1454	11	12			A3E			BC; arabian language
USKA	7200.0	1728	12	12			A3E			BC, jammed
USKA	7200.0	1728	12	12			Noise		10 kHz	Jammer
USKA	14118.0	0914	22	12			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D
USKA	14192.0	0953	19	12			F1B	50	500	almost daily
USKA	14240.0	0834	06	12			F1B	75	250	
USKA	14268.0	0831	06	12			F1B	75	250	
USKA	21000.0	0935	22	12			N0N			long lasting carrier
USKA	21135.0	1238	22	12			FMCW	50 sps	20 kHz	OTHR
USKA	21255.0	0956	29	12			FMCW	25 sps	20 kHz	OTHR

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	21390.0	1022	30	12			FMCW	50 sps	20 kHz	OTHR
USKA	21440.0	1006	29	12			FMCW	66 sps	10 kHz	OTHR, Bursts duration 2s, every 25s
USKA	28650.0	1008	07	12			FMCW	50 sps	20 kHz	OTHR
USKA	28710.0	0841	06	12			FMCW	25 sps	20 kHz	OTHR

USKA - part 2 (Taxis)										
SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
USKA	28135.0	1015	30	12			F3E			Russian
USKA	28145.0	1056	25	12			F3E			Russian
USKA	28165.0	1057	25	12			F3E			Russian
USKA	28185.0	1053	25	12			F3E			Russian
USKA	28195.0	1055	25	12			F3E			Russian
USKA	28215.0	1015	30	12			F3E			Russian
USKA	28225.0	1059	25	12			F3E			Russian
USKA	28245.0	1016	30	12			F3E			Russian
USKA	28255.0	1100	25	12			F3E			Russian
USKA	28265.0	1017	30	12			F3E			Russian
USKA	28275.0	1101	25	12			F3E			Russian
USKA	28285.0	1103	25	12			F3E			Russian
USKA	28365.0	1104	25	12			F3E			Russian
USKA	28775.0	1020	30	12			F3E			Russian
USKA	28790.0	1019	30	12			F3E			Russian
USKA	28935.0	1021	30	12			F3E			Russian
USKA	28945.0	1020	30	12			F3E			Russian
USKA	28975.0	1021	30	12			F3E			Russian

Veron 1 – Netherlands – PA0GRU (Dick)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SHIFT	DETAILS
VERON	3590,0	19.13	27	12	CIS	UiCW	F1A		QRJ3 ar
VERON	3699,5	20.10	17	12	RUS	UiPtr	F1B	200	Ptr
VERON	3699,5	19.14	27	12		UiPTR	F1B		Revs
VERON	7004,0	20.04	17	12					White noise; 32k spread
VERON	7025,0	11.46	15	12		UiPTR	F1B		Revs
VERON	7038,7	vt	vd	12	UKR	D	A1A		D-beacon
VERON	7038,9	vt	vd	12	RUS	S	A1A		S-beacon
VERON	7039,0	vt	vd	12	RUS	C	A1A		C-beacon
VERON	7039,1	15.57	2	12	AZB	A	A1A		A-beacon
VERON	7041,7	15.58	2	12	RUS	L	A1A		L-beacon
VERON	7054,0	19.39	10	12	RUS	UiPtr	F1B	400	5 channel printer
VERON	7054,0	19.58	17	12	RUS	UiPtr	F1B	400	5 channel printer
VERON	7054,0	19.10	27	12	CIS	UiPTR	F1B		Revs
VERON	7054,0	18.21	19	12	RUS	UiPtr	F1B	200	Revs, MIL
VERON	7105,0	22.00	17	12	CHN/ TWN	UiBC	A3E		2 BC on same freq.; s9+
VERON	7110,0	vt	vd	12	ETH	ETH Gov	Jam		white noise jammer of ETH
VERON	7134,5	17.55	10	12		UiMux	PSK12	4k2	
VERON	7175,0	17.47	10	12	ERI	VOBME	A3A		Arabic speech, comments; s9
VERON	7175,0	20.08	13	12	Africa	UiBC	A3E		male, unknown language
VERON	7176,0	21.33	17	12	RUS	UiPtr	F1B	250	
VERON	7200,0	21.29	17	12	IRN	IRIB	A3E		East Asian speech (Japanese?)
VERON	10112,0	11.24	17	12	TUR	UiMux	PSK8	2k4	Stanag4285
VERON	14170,0	09.00	28	12		UiMux			unknowm modulation
VERON	14192,0	10.56	17	12	RUS	UiPtr	F1B	500	Idling; bad filtered
VERON	14192,0	10.16	12	12		UiPTR	F1B		Revs/Ptr
VERON	14192,0	10.44	12	12	RUS	UiPtr	F1B	500	Ptr/Revs, also 20/12, 31/12, 19/12,29/12
VERON	14212,0	10.46	9	12		UiPtr	F1B	500	Ptr
VERON	14233,0	10.06	29	12		UiMUX	FSK		roaring noise, daily
VERON	21048,0	10.06	2	12	RUS	C	A1A		C-beacon
VERON	21100,0	vt	vd	12	E	UiILL	J3e-U		Spanish, male/female voices
VERON	21100,0	10.30	27	12	NIG	UiILL	J3e-U		English, male, "report to office

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SHIFT	DETAILS
									Nigeria"
VERON	21222,0	15.29	3	12	N.Afr	UiILL	J3e-U		N. African language, male voices, fishery?
VERON	21259,5	12.24	17	12					Frequency hopper
VERON	21405,0	14.19	6	12	E	UiILL	J3e-U		Spanish, male/female voices
VERON	28035,0	13.23	7	12	E	UiILL	F3E		male, Spanish
VERON	28254,0	11.09	10	12	CIS	Taxi Traffic	F3E		Russian language
VERON	28270,0	12.55	11	12	CIS	Taxi Traffic	F3E		Russian language
VERON	28274,0	11.10	10	12	CIS	Taxi Traffic	F3E		Russian language
VERON	28493,0	11.46	10	12					Frequency hopper
VERON	29475,0	13.35	7	12	CIS	UiILL	F3E		taxi Russian language, female

IARUMS Region 1

Many thanks for your interest!

Happy New Year!

The monitoring team of IARU Region 1

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SSB-Electronic – Iserlohn – Germany

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