



# Monitoring System

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The monthly newsletter for Region 1

## November 2011

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



### Acknowledgements

- ++ ARI: DH7SA – Salvatore ++ ARSK: 5Z4NU - Ted ++ DARC: DJ9KR - Uli ++ CAST: DL1BDF – Mustapha ++
- ++ EARA: SU1SA – Sayed ++ IRTS: EI4GXB - Ger ++ KARS: 9K2RR – Faisal ++ MARL: 9H1M – Dominic ++
- ++ MRASZ: HA7PL - Laci ++ NARS: 5N9AYM – Yusuf ++ OEVSU: OE3DMA – Alex ++ PZK: SP3SUZ – Wladyslaw ++
- ++ RAL: OD5MV – Raja ++ REP: CT4AN – Jose ++ RSGB: G4BOH - Chris ++ SARL: ZS1FCS - Fred ++
- ++ SRAL: OH2BLU - Pekka ++ UBA: ON4VJ - Johny ++ URE: EA5DY - Salvador ++ USKA: HB9CET - Peter ++
- ++ VERON: PA0GRU - Dick ++ ZRS: S56ZDB – Darko ++ G3VZV – Graham (satellite intrusions) ++
- ++ TG9ADV – Jorge (Co-ordinator Region 2) ++ ++ VK3MV – Peter (Co-ordinator Region 3) ++
- ++ DF8FE – Martin (Webmaster assistance) ++ 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) ++ 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. Clandestine on 14280 kHz

The number station on 14280 kHz, still transmitting in AM every Wednesday at 1000 utc, has been observed again. Location: Rivne, Ukraine – real purpose unknown  
The same station has been mentioned in the IARUMS R1 Newsletter February 2011.

## 2. CIS taxi traffic on the 10 m-band – reported by DJ9KR and DK2OM

About more than 90 % of the CIS-taxis are transmitting from Russia.

### DJ9KR reports:

Dear fellow Intruder Busters,

More than a year ago (24 October 2010) I asked the Headquarters of SRR, Box 88, 119311 Moscow (attention Roman R. Thomas RZ3AA, Yuri B. Malyuk RA4AR) for assistance because of the big number of illegal taxis in Russian language in FM in the range 28000 - 29700 kHz. The letter was by Air Mail and by e-Mail. Unfortunately I received no answer so far. So I decided to contact the Russian telecom authorities directly.

On 29 September 2011 I sent my complaint by fax and Registered Air Mail to the Radio Frequency Service, General Radio Frequency Centre, Federal State Unitary Enterprise, 7 Tverskaya Str., Moscow 125375.

To my surprise on 31 October 2011 I received an answer by fax re. RUS / CIS taxis in the range 28000 - 29700 kHz.

Copy of the answer from Russia: <http://www.iarums-r1.org/iarums/grfc2011>

**Great job, dear Uli! We hope, that the Russian authorities will disable the taxis from our band.**

### DK2OM reports:

While using a remote Perseus I observed the 10 m-band around Moscow in the evening hours.

I found out, that the 10 m-band is not abused by Russian taxis in the area of Moscow. There were only 10 taxi nets operating between 26 and 28 MHz. We suppose, that the taxi drivers are well informed about their illegal traffic on 10 m. Being far away from the capital city allow them more intolerance and boldness.

## 3. Chinese OTH Radar again on 7 MHz

I found the Chinese OTH Radar several times on 7 MHz in the evening hours. It sometimes occupied 280 kHz up to 7040 kHz using the well known sweeprate of 43.5 sps.

## 4. Cyprus Radar and Turkish Radar – never ending story

The Cyprus Radar (operated by the Royal Airforce) was daily active on 10 m, often with 50 sweeps/sec.

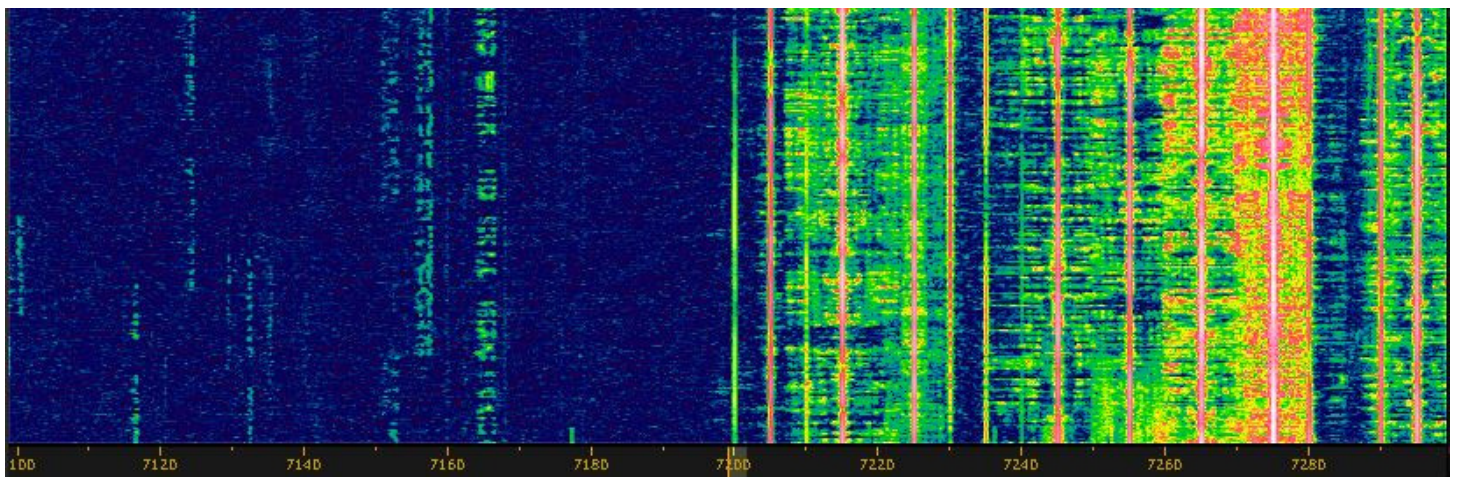
Of course the CIS taxi traffic was severely disturbed, too. In this case a senseful result ... (Same with Turkish Radar.)

## 5. Russian OFDM on 7 MHz

The Russian military was often transmitting on 7000.8 kHz using OFDM112 with 22.4 Bd. The DX-ing amateurs on the low band edge were not amused. Location: Severomorsk, Russia.

## 6. Better situation: 7100 – 7200 kHz rather clean from BC transmissions

The screenshot below is showing the situation on 7100 – 7200 kHz on Nov. 22<sup>nd</sup> at 1950 UTC in Central Europe. Only few BCs remained, more details below. Many thanks for the great assistance to DJ9KR, DF5SX and the German PTT (BNetzA). Of course the excellent conditions on higher frequencies are very helpful, if a BC will move up to another frequency. What will happen, when the conditions will decrease???



7100 -----7200

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/>

## 8. Grateful words to all our members and contributors at the end of the year:

We want to thank all involved Hams and authorities for their dedication, support and hard work during the last year. DK2OM - Wolf and DJ9KR - Uli

**9. DX-Cluster support by SM6U - Rick:**

Rick, sysop and programmer of SK6AW DX-Cluster, told us, that he would give us his support for intruder monitoring purposes, if wanted and necessary.

DX Cluster SK6AW: <http://www.sk6aw.net/cluster/>

Many thanks dear Rick! >>>>>>



**10. Homepage Region 1 Updates: (Look under “Important Links” and scroll down!)**

**Ionosondes:**

- [Ionosonde Juliusruh - Germany](#)
- [Ionosonde Pruhonice - Czech Republic](#)
- [HAARP Ionosonde Alaska](#)
- [NOAA - National Geophysical Data Center](#)

**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 \*\*\* MPSK12 (J7D) = 12 channel phase shift keying \*\*\* 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)

**ARSK MONITORING OVERVIEW FOR NOVEMBER 2011**

No Somali intruders were heard on 40 meters, and sweeps over the band are now almost completely blank of intruders. A few Southern Sudanese and Francophone Central African stations were heard, as usual. Khartoum maintained their broadcasts on 7200 kHz and was blotted by the very strong new station National Radio of Afghanistan. A complaint for this was laid with CCK.

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

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**ARSK – Kenya – 5Z4NU (Ted)**

H'd by	kHz	UTC	dd	mm	ITU	Identity	MODE	Details
ARSK	7000.0	vt	dly	11	DRC	UiPHONE	J3E	Vernacular, KiSwahili..
ARSK	7009.0	vt	*	11	DRC	UiPHONE	J3Eu	Vernacular.*10,16,20,
ARSK	7026.0	1456	10	11	SDN	UiPHONE	J3Eu	NGO? English, message traffic .
ARSK	7035.0	1317	9	11	SDN	UiPHONE	J3Eu	Vernacular. Phonetics.
ARSK	7050.0	1458	30	11	DRC	UiPhone	J3E	Vernacula
ARSK	7048.0	0650	16	11	DRC	UiPHONE	J3Eu	Vernacular, French and phonetics. NGO?
ARSK	7074.0	vt	dly	11	DRC	UiPHONE	J3Eu	Vernacular.
ARSK	7110.0	0330	27	11	?	UiBC	A3E	Unidentified broadcast.
ARSK	7200.0	vt	dly	11	SDN	Khartoum	A3E	Broadcast, Khartoum.
ARSK	7200.0	vt	*	11	AFG	National Radio of Afghanistan	A3E	Broadcast. Morning and evening.

**BC Stations still transmitting in the 40-m-Band, Range 7000 – 7200 kHz**

QRG (kHz)	Name of Broadcast Station, Transmitting Times in UTC, ITU-Country
7105	<b>Radio China</b> , 2200-2300, CHN - serving as a jammer against Sound of Hope, TWN
7105	<b>Sound of Hope</b> , 2200 - 2300, TWN
7110	<b>Radio Myanmar</b> , faintly heard 1224 – 1430 s/off program, MMR
7120	<b>Voice of the Broad Masses of Eritrea (VOBME)</b> , ERI
<b>7120 v</b>	<b>*) White Noise Jammers from Ethiopia on 7120, 7165, 7175, 7180, 7185 on VOBME</b>
7165, 7175	<b>Voice of the Broad Masses of Eritrea</b> , (VOBME), ERI *)
7180, 7185	<b>Voice of the Broad Masses of Eritrea</b> , ERI *)
7189,7	<b>SLBC Colombo</b> , Program: Hindi 0030 – 0300, Telugu 0830 – 0930, Tamil 1030 - 1230, Sri Lanka, heard with S9-signal at DJ9KR, CLN
7200	<b>Radio Omdurman</b> , Program: Arabic H24, big carrier, weak audio, SDN
7200	<b>Voice of Justice / Islamic Republic of Iran Broadcasting (IRIB)</b> , IRN Program: 0330 – 0430: English, 2100 – 2200: Japanese First heard 30 October 2011 (period B11) – see QSL!



QSL-Card of National Radio of Afghanistan



this is not Santa, but Wolf DF5SX, devoted BCL and IW-member, QRV "Bavarian Mountains' Day / BBT"

7200 **National Radio of Afghanistan**, heard 1520 – 1630 s/off. "6100 kHz" is announced but not used, signal strength S9+10dB with a Dipole at DJ9KR, AFG

**There may be more BC stations active in the range 7000 – 7200 kHz, however we do not hear them in Germany / have not received reports of harmful interference.**

Homepages: [www.iaru-r1.org](http://www.iaru-r1.org) and [www.iarums-r1.org](http://www.iarums-r1.org) and [www.qrz.com/db/dj9kr](http://www.qrz.com/db/dj9kr)

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

CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	Remarks and Comments
DARC	3500,0	2036	03	11	G	UiILL	J3E-U	UK fishery
DARC	3508,0	2040	03	11	CIS	UiILL	J3E-U	announcements in Russian voice
DARC	3512,0	2035	08	11	E	UiILL	J3E-U	Spanish fishery with vocoder CRY-2001
DARC	3514,0	1417	10	11	E	UiILL	J3E-U	Spanish fishery with vocoder CRY-2001
DARC	3517,4	2124	16	11	E	UiILL	J3E-U	Spanish fishery
DARC	3517,4	vt	vd	11	E	UiILL	J3E-L	Spanish fishery heard 23 24 at 2100, 2110
DARC	3545,0	2034	09	11	N.Eu	UiILL	J3E-U	Scandinavians
DARC	3550,0	2038	03	11	N.Eu	UiILL	J3E-U	Scandinavians
DARC	3550,0	0700	dly	11	F	French Lis Amateurs	A3E	French lis amateurs, daily - --- AM in CW section is in contradiction to IARU Bandplan
DARC	3553,0	2044	03	11	N.Eu	UiILL	J3E-U	Scandinavians
DARC	3600,0	1637	20	11	F	French Lis Amateurs	A3E	French lis amateurs, daily - --- AM in CW section is in contradiction to IARU Bandplan
DARC	7000,0	vt	dly	11	INS	UiILL	J3E-U	Indonesian pirates, USB and/or LSB used, playing music, fooling around
DARC	7001,0	1535	12	11		UiMUX	XXX	mux rushing noise
DARC	7002,0	2129	20	11		UiBC	A3E	IM product
DARC	7005,0	vt	25	11	EGY	Radio Cairo	A3E	IM 6270, also Ims on 6515, 6760 - S9+10dB
DARC	7010,0	1937	02	11		UiILL	J3E-U	unid pirates, weak signals
DARC	7020,0	2148	03	11		UiBC	A3E	BC-IM
DARC	7038,7	2102	27	11	UKR	beacon D	A1A	beacon Sevastopol
DARC	7038,8	0831	04	11	RUS	beacon P	A1A	Kaliningrad
DARC	7038,9	1756	19	11	RUS	beacon S	A1A	beacon "S" - Murmansk
DARC	7039,0	0717	28	11	RUS	beacon C	A1A	beacon "C" - Moscow
DARC	7040,0	1815	23	11		UiILL	J3E-U	male voices, SSB-USB used
DARC	7041,8	0717	28	11	RUS	beacon L	A1A	beacon "L" - St. Petersburg
DARC	7105,0	vt	01	11	TUN	RTV Tunisia	A3E	Ar px heard 2000 - 2051, is IM, fundamental 7225
DARC	7105,0	1653	04	11	ETH	ETH Govt. Jammer	JAM	white noise jammer on VOBME
DARC	7105,0	2200	14	11	CHN	Soh Xi Wang Zhi Sheng	A3E	purpose is to jam Sound of Hope on same QRG
DARC	7105,0	2200	14	11	TWN	Sound of Hope	A3E	just audible under "Soh Xi Wang Zhi Sheng"
DARC	7105,0	2201	22	11	CHN	Soh Xi Wang Zhi Sheng	A3E	Chinese px 2200 - 2300, serving as a jammer against Sound of Hope from Taiwan, TWN
DARC	7105,0	2157	24	11	CHN		N0N	carrier for warm up, at 2200 s/on
DARC	7105,0	2200	24	11	CHN		A3E	s/on Chinese px
DARC	7105,0	2202	27	11	CHN		A3E	Chinese px 2200 - 2300, serving as a jammer against Sound of Hope from Taiwan, TWN
DARC	7105,0	2155	28	11	CHN	Soh Xi Wang Zhi Sheng	N0N	carrier, tx-er warm up til 2200
DARC	7105,0	2200	28	11	CHN	Soh Xi Wang Zhi Sheng	N0N	Chinese px s/on
DARC	7110,0	1707	03	11	ERI	VOBME	A3E	weak, found // 7175
DARC	7110,0	1655	23	11	ERI	VOBME	A3E	typical px, under white noise jammer of ETH
DARC	7110,0	1655	23	11	ETH	ETH Govt. Jammer	JAM	white noise jammer of ETH
DARC	7110,0	1950	30	11		UiBC	A3E	BC-IM (?), one with English px, reporting about "Bulgaria"
DARC	7110,0	vt	30	11	MMR	R.Myanmar	A3E	faintly heard 1224 - 1430 s/off
DARC	7115,0	1630	26	11	ERI	VOBME	A3E	is active
DARC	7115,0	1630	26	11	ETH	ETH Govt Jammer	JAM	white noise jammer on VOBME

CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	Remarks and Comments
DARC	7117,0	1625	20	11	RUS	REA4	F1B	fast reversals
DARC	7120,0	1649	13	11	ERI	VOBME	A3E	VOBME under heavy white noise jammer, at 1700: clear
DARC	7130,0	1622	23	11	ETH	ETH Govt. Jammer	JAM	white noise jammer of ETH
DARC	7130,0	1553	27	11	ERI	VOBME	A3E	VOBME under heavy white noise jammer, at 1700: clear
DARC	7135,0	1621	10	11	ETH	ETH Govt. Jammer	JAM	white noise jammer on VOBME
DARC	7135,0	vt	11	11	ETH	ETH Govt. Jammer	JAM	white noise jammer on VOBME, heard 1559 - 1613
DARC	7157,0	vt	27	11	E	EA5/PA2M PR	J3E-U	OP Willem, Dutch call sign is not allocated by Dutch Authorities - heard 0159 - 0206 s/off - pse hit <a href="http://appl.agentschaptelecom.nl/callbook/cgi-bin/callboek.cgi">http://appl.agentschaptelecom.nl/callbook/cgi-bin/callboek.cgi</a>
DARC	7165,0	1633	30	11	ERI	VOBME	A3E	under heavy wn jammer, s/off at 1632
DARC	7165,0	1633	30	11	ETH	ETH Govt Jammer	JAM	white noise jammer on VOBME
DARC	7174,0	vt	04	11		UiCAR	N0N	carrier S9+20dB, heard 1648 - 1651 s/off
DARC	7175,0	vt	11	11	ERI	VOBME	A3E	VOBME under heavy white noise jammer, heard 1533 - 1613
DARC	7175,0	1445	21	11	ETH	ETH Govt. Jammer	JAM	heavy wn jam on VOBME
DARC	7175,0	1525	27	11	ETH	ETH Govt Jammer	JAM	white noise jammer on VOBME
DARC	7175,0	vt	dly	11	ERI	VOBME	A3E	heard 0230 - 0430
DARC	7179,0	1959	01	11	RUS	Golos Rossiye	A3E	ann.: "Golos Rossiye" at 1959, Ru px
DARC	7180,0	1943	18	11	ERI	VOBME	A3E	report 5P8ZY
DARC	7180,0	1648	22	11	ERI	VOBME	A3E	typical px, under white noise jammer of ETH
DARC	7180,0	1648	22	11	ETH	ETH Govt. Jammer	JAM	white noise jammer of ETH
DARC	7180,0	1622	23	11	ERI	VOBME	A3E	typical px, under white noise jammer of ETH
DARC	7189,7	0149	03	11	CLN	SLBC Sri Lanka	A3E	typical music
DARC	7192,0	vt	dly	11	RUS	RUS Navy Kaliningrad	F1B	harmful
DARC	7199,0	0149	03	11		UiMUX	report DGOJB JX	multiplex
DARC	7200,0	2124	01	11	IRN	IRIB	A3E	Japanese px S9+25dB
DARC	7200,0	2058	02	11	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	11	SDN	R.Omdurman	A3E	Ar px, found // with Voice of Justice (IRIB)
DARC	7200,0	0335	03	11	IRN	Voice of Justice (IRIB)	A3E	English px S9+30dB, found // with R.Omdurman
DARC	7200,0	1648	04	11		UiBC	A3E	Ar px completely distorted, at 1702: nil
DARC	7200,0	1936	16	11	SDN	R.Omdurman	A3E	Ar px
DARC	7200,0	0330	17	11	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	2100	17	11	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	vt	27	11	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	11	AFG	Ntl.Radio of	A3E	Indian music, English ann.: "This is National Radio of Afghanistan", S9+15dB

CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	Remarks and Comments
						Afghanistan		
DARC	7200,0	2055	28	11	IRN	IRIB	N0N	warm up til 2100
DARC	7200,0	1616	29	11	AFG	Ntl.Radio of Afghanistan	A3E	ann.: "Ye Radio Afghanistan he"
DARC	7200,0	1418	30	11		UiMUX	XXX	rushing noise
DARC	7200,0	vt	30	11	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
DARC	7200,0	vt	30	11	SDN	R.Omdurman	A3E	heard 1500 - 1522, Ar px
DARC	7200,0	vt	dly	11	IRN	Voice of Justice / IRIB	A3E	program: 0330 - 0430: English, 2100 - 2200: Japanese - also tx-ing // on 7365 kHz
DARC	7210,0	0322	17	11	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	0210	27	11	RUS	Voz de Russia	A3E	Spanish px, very much distorted and overmodulated, harmful splatters down ham band
DARC	7210,9	0154	20	11	RUS	Voz de Russia	A3E	Spanish px, totally overmodulated and splattering
DARC	10100,0	h24	dly	11	CHN	Sea Wave Radar	FMCW	ticking pulses, 160 ppm, heard 10060 - 10260 kHz
DARC	10101,0	2237	23	11	E	UiILL	J3E-U	Spanish fishery heard
DARC	10104,3	1629	23	11		UiILL	J3E-U	unid male voice, unid language
DARC	10105,0	1626	23	11	CHN	Sea Wave Radar	FMCW	"sweeper" heard 10105 - 10140
DARC	10105,0	vt	vd	10	E	UiILL	J3E-U	Spanish fishery, heard 11 18 at 1927, 1909
DARC	10120,0	2000	03	11	E	UiILL	J3E-U	Spanish fishery
DARC	10121,3	2053	05	11		UiILL	J3E-U	unid pirates
DARC	10121,5	1928	17	11		UiILL	J3E-U	unid pirates, weak signals
DARC	10123,0	1934	18	11	MRC	UiILL	J3E-U	Moroccan fishery
DARC	10125,0	1652	22	11	MRC	UiILL	J3E-U	Moroccan fishery
DARC	10125,0	vt	25	11	E	UiILL	J3E-U	2 male persons in Spanish voice, heard 1730 - 1732 s/off
DARC	10125,0	vt	vd	11	MRC	UiILL	J3E-U	Moroccan fishery, heard 14 22 at 2027, 1650
DARC	10126,7	1652	22	11	F.Ea	UiILL	J3E-U	F.Ea language, different to 10125!
DARC	10127,0	1823	25	11	F.Ea	UiILL	J3E-U	pirates from Far East
DARC	10130,0	1705	20	11	E	UiILL	J3E-U	Spanish fishery
DARC	10130,0	2026	20	11	MRC	UiILL	J3E-U	Moroccan fishery
DARC	10130,0	1430	21	11	CHN	Sea Wave Radar	FMCW	heard 10130 - 10170
DARC	10133,4	2022	26	11	F.Ea	UiILL	J3E-U	pirates from Far East
DARC	10135,0	1830	04	11	E	UiILL	J3E-U	Spanish fishery, Spanish dialect
DARC	10135,0	2130	08	11	CHN	Sea Wave Radar	FMCW	sweeping signal heard 10135 - 10170
DARC	10136,5	1620	13	11		UiILL	J3E-U	unid male persons, unid language
DARC	10144,0	vt	25	11		UiBC	A3E	Portug. px heard 1720 - 1729 s/off
DARC	10150,0	1811	24	11	E	UiILL	J3E-U	Spanish male traffic, is not in ham band
DARC	10150,0	1940	27	11	MRC	UiILL	J3E-U	Moroccan and Ar voice talking about "Calamares"
DARC	10300,0	1529	03	11	CHN	Hainan Music Jammer	JAM	just info!
DARC	14000,0	1920	03	11	B	UiILL	J3E-U	North Brazilian Intruder Net
DARC	14000,0	1940	04	11		UiILL	J3E-U	unid prirates, 240 degs. from DL
DARC	14000,0	2110	09	11	E	UiILL	J3E-U	Spanish fishery
DARC	14000,0	1800	11	11	INS	UiILL	J3E-U	Far East pirates, singing and fooling around
DARC	14000,0	1505	14	11	F.Ea	UiILL	J3E-U	Far East pirates
DARC	14000,0	1704	23	11	F.Ea	UiILL	J3E-U	pirates from Far East
DARC	14000,0	2027	23	11		UiBC	A3E	BC-IM, 2 px heard, one is German
DARC	14000,0	1203	29	11	CIS	UiILL	J3E-U	2 male persons in Russian voice, QTE 080

CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	Remarks and Comments
								degs.
DARC	14170,0	0626	24	11		UiOTHR	FMCW	4s long pulses in strings, every 40 s
DARC	14195,0	1440	27	11	I	Lis Ham	J3E-U	Italian music in order to jam IT9RYH
DARC	14235,0	0614	24	11		UiOTHR	FMCW	4s long pulses in strings, every 40 s
DARC	14295,1	1500	07	11	TJK	R.Tajikistan	A3E	3f de 4765, daily
DARC	14350,0	0816	12	11	E	UiILL	J3E-U	pirates in Spanish voice, male to female, later to 14366 --- 14350 SSB-USB is outside ham band!
DARC	14352,1	0914	06	11	I	IK6IMZ	J3E-U	OP Umberto, with ISOXRN, no IM, they are really 2 kHz too high
DARC	14352,1	0914	06	11	I	ISOXRN	J3E-U	OP Umberto, with IK6IMZ, no IM, they are really 2 kHz too high
DARC	18180,0	0850	03	11	CHN	Hainan Music Jammer	JAM	just info!
DARC	21000,0	1653	07	11	S.Am	UiILL	J3E-U	pirates from South America, Spanish voice, weak
DARC	21000,0	1935	12	11	E	UiILL	J3E-U	Spanish voice, QTE 220 degs.
DARC	21000,0	1110	20	11	E	UiILL	J3E-U	Spanish fishery
DARC	21000,0	2030	22	11	(B)	UiILL	J3E-U	male persons in Port. Voice, no calls, possibly Brazil
DARC	21000,0	h24	DLY	11	RUS	UiILL	J3E-U	vocoder YAKHTA, location Yekaterinburg
DARC	21001,5	0749	11	11	RUS	YAKHTA	F1B	encoding signal
DARC	21002,0	0756	16	11		UiILL	J3E-U	male voice, unid language
DARC	21002,0	0756	16	11		UiILL	J3E-U	unid male voice, unid language
DARC	21007,7	1523	25	11	MRC	UiILL	J3E-U	Moroccan fishery
DARC	21022,0	1521	10	11	E	UiILL	J3E-U	2 male persons in Spanish voice
DARC	21145,0	1040	04	11	F.Ea	UiILL	J3E-U	pirates from Far East
	<b>21450,0</b>	<b>vt</b>	<b>11</b>	<b>11</b>	<b>USA</b>	<b>Radio Free Asia</b>	<b>A3E</b>	<b>HFCC sked 24 Nov 2011 - 24 Mar 2012 - Time Sunday 0300 - 0600 UTC, Program: Mandarin - ALERT! -</b>
DARC	27990,0	vt	18	11	CYP	CYP OTHR	FMCW	heard 1245 - 1340 - *)
DARC	28000,0	1019	02	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	28000,0	0934	14	11	CYP	CYP OTHR	FMCW	25 sps - pin pointed by Federal Network Agency Germany
DARC	28000,0	vt	14	11	CYP	OTHR	FMCW	heard 0920 - 0945 - *)
DARC	28015,0	1630	04	11	B	UiILL	A3E	Brazilian CB-ers
DARC	28030,0	vt	14	11	CYP	OTHR	FMCW	heard 0600 - 0620, 0645 - 0650 - *)
DARC	28045,0	1633	dly	11	B	UiILL	A3E	Brazilian CB-ers
DARC	28055,0	1633	04	11	B	UiILL	A3E	Brazilian CB-ers
DARC	28055,0	0630	24	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	28060,0	0915	11	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	28060,0	0928	11	11		UiOTH	FMCW	chirpy signal
DARC	28065,0	0905	29	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	28075,0	0915	11	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	28090,0	vt	23	11	CYP	OTHR	FMCW	heard 0705 - 0715 - "mirror" on 28040 and 28140 *)
DARC	28095,0	0835	06	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	28100,0	1035	09	11	CYP	CYP OTHR	FMCW	50 sps - pin pointed by Federal Network Agency Germany
DARC	28100,0	vt	11	11	CYP	OTHR	FMCW	heard 0724 - 0800 - *)
DARC	28100,0	0815	15	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	28100,0	vt	15	11	CYP	OTHR	FMCW	heard 0740 - 0755 - *)
DARC	28105,0	0853	01	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	28105,0	1634	04	11	B	UiILL	A3E	Brazilian CB-ers
DARC	28110,0	vt	09	11	CYP	OTHR	FMCW	heard 1025 - 1102 - *)
DARC	28115,0	1632	04	11	B	UiILL	A3E	Brazilian CB-ers
DARC	28115,0	0850	07	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	28115,0	vt	vd	11	TUR	UiILL	F3E	Turkish pirates heard 07 08 at 0941, 0752
DARC	28130,0	0853	01	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	28135,0	0853	01	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	28135,0	1120	29	11	E	UiILL	A3E	Spanish CB-ers
DARC	28140,0	vt	23	11	CYP	OTHR	FMCW	heard 0705 - 0715 - is "mirror" of 28090*)
DARC	28145,0	0905	29	11	CIS	Taxi Traffic	F3E	female to male in Russian voice



CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	Remarks and Comments
DARC	28155,0	0853	01	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	28155,0	1130	29	11	E	UiILL	A3E	Spanish CB-ers
DARC	28160,0	vt	25	11	CYP	OTHR	FMCW	heard 0720 - 0740 - "mirror" from 28120 -
DARC	28165,0	0853	01	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	28165,0	1635	04	11	B	UiILL	A3E	Brazilian CB-ers
DARC	28170,0	vt	10	11	CYP	OTHR	FMCW	heard 1255 - 1335 - *)
DARC	28175,0	0905	29	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	28180,0	1200	07	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	28185,0	1439	05	11	RUS	Taxi Traffic	F3E	taxi, location is east of Moscow - pin pointed by Federal Network Agency Germany
DARC	28185,0	0906	17	11	E	UiILL	A3E	Spanish CB-ers
DARC	28200,0	0752	06	11	CYP	CYP OTHR	FMCW	50 sps - pin pointed by Federal Network Agency Germany
DARC	28205,0	1030	03	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	28210,0	vt	28	11	CYP	OTHR	FMCW	heard 1237 - 1255 *)
DARC	28210,0	0929	29	11	CYP	OTHR	FMCW	heard at s/off 0929
DARC	28215,0	0940	13	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	28215,0	1508	24	11	E	UiILL	A3E	Spanish CB-ers
DARC	28225,0	1647	07	11	B	UiILL	A3E	Brazilian CB-ers
DARC	28225,0	0905	29	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	28230,0	0849	22	11	CYP	CYP OTHR	FMCW	50 sps - pin pointed by Federal Network Agency Germany
DARC	28230,0	vt	22	11	CYP	OTHR	FMCW	heard 0820 - 0915 - *)
DARC	28235,0	1504	24	11	E	UiILL	A3E	Spanish CB-ers
DARC	28235,0	0850	27	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	28240,0	vt	09	11	CYP	OTHR	FMCW	heard 1137 - 1155, also "mirror" of 28290 -
DARC	28245,0	1325	01	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	28245,0	0859	03	11	E	UiILL	A3E	Spanish male traffic, dialect, engine noise
DARC	28250,0	vt	10	11	CYP	OTHR	FMCW	heard 1430 - 1450 - "mirror" - *)
DARC	28250,0	0915	11	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	28255,0	1325	01	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	28255,0	1633	04	11	B	UiILL	A3E	Brazilian CB-ers
DARC	28255,4	1506	24	11	B	UiILL	J3E-U	CB-ers from Brazil
DARC	28260,0	0815	15	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	28260,0	vt	25	11	CYP	OTHR	FMCW	heard 0720 - 0740 - "mirror" from 28120 -
DARC	28265,0	1325	01	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	28270,0	vt	13	11	CYP	OTHR	FMCW	heard 0730 - 0740 - *)
DARC	28275,0	1030	03	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	28275,0	1635	04	11	B	UiILL	A3E	Brazilian CB-ers
DARC	28280,0	vt	07	11	CYP	OTHR	FMCW	heard 0925 - 0945 - *)
DARC	28285,0	1433	05	11	BLR	Taxi Traffic	F3E	taxi, location is Minsk - pin pointed by Federal Network Agency Germany
DARC	28285,0	1519	23	11	B	UiILL	A3E	CB-ers from Brazil
DARC	28285,0	0630	24	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	28290,0	vt	29	11	CYP	OTHR	FMCW	heard 0830 - 0840 *)
DARC	28295,0	0750	14	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	28300,0	0625	01	11	CYP	CYP OTHR	FMCW	50 sps - pin pointed by Federal Network Agency Germany
DARC	28300,0	vt	02	11	CYP	OTHR	FMCW	heard 0617 - 0653 - *)
DARC	28300,0	0940	05	11	CYP	CYP OTHR	FMCW	50 sps - pin pointed by Federal Network Agency Germany
DARC	28305,0	0919	04	11	E	UiILL	F3E	Spanish CB-ers, several nets
DARC	28305,0	1632	04	11	B	UiILL	A3E	Brazilian CB-ers
DARC	28305,0	1200	07	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	28315,0	0958	03	11	E	UiILL	A3E	Spanish CB-ers
DARC	28315,0	0835	06	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	28315,0	1650	07	11	B	UiILL	A3E	Brazilian CB-ers
DARC	28320,0	vt	06	11	CYP	OTHR	FMCW	heard 1200 - 1220 - *)
DARC	28322,0	1636	04	11	B	UiILL	A3E	Brazilian CB-ers
DARC	28325,0	0940	13	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	28330,0	vt	11	11	CYP	OTHR	FMCW	heard 0926 s/on till 0930 s/off
DARC	28335,0	1325	01	11	CIS	Taxi Traffic	F3E	female to male in Russian voice - S9 signal
DARC	28340,0	vt	09	11	CYP	OTHR	FMCW	heard 1137 - 1155, also "mirror" of 28290 -
DARC	28345,0	vt	28	11	CYP	OTHR	FMCW	heard 1235 - 1238 *)
DARC	28350,0	vt	10	11	CYP	OTHR	FMCW	heard 1430 - 1450 - "mirror" - *)

CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	Remarks and Comments
DARC	28380,0	vt	23	11	CYP	OTHR	FMCW	heard 0740 - 0750 - "mirror on 28330 and 28430 *)
DARC	28385,0	1325	01	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	28390,0	vt	19	11	CYP	OTHR	FMCW	heard 1400 - 1420 - *)
DARC	28390,0	vt	23	11	CYP	OTHR	FMCW	heard 0815 - 0835 - "mirror" on 28340 and 28440 *)
DARC	28400,0	0908	08	11	CYP	OTHR	FMCW	is active, signal S9+20dB
DARC	28430,0	vt	23	11	CYP	OTHR	FMCW	heard 0740 - 0750 - is "mirror of 28380 *)
DARC	28440,0	vt	23	11	CYP	OTHR	FMCW	heard 0815 - 0835 - is "mirror" of 28390 *)
DARC	28450,0	vt	09	11	CYP	OTHR	FMCW	heard 0645 - 0709 - *)
DARC	28465,0	0755	12	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	28480,0	vt	08	11	CYP	OTHR	FMCW	heard 1355 - 1410 - *)
DARC	28530,0	vt	16	11	CYP	OTHR	FMCW	heard 0945 - 1008 - "mirror" on 28480 and 28580 - *)
DARC	28530,0	vt	17	11	CYP	OTHR	FMCW	heard 1040 - 1110 - *)
DARC	28540,0	vt	01	11	CYP	OTHR	FMCW	heard 0916 - 0940 s/off with S9+30dB signal
DARC	28545,0	0853	01	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	28550,0	vt	01	11	CYP	OTHR	FMCW	heard 0905 - 0947
DARC	28560,0	vt	29	11	CYP	OTHR	FMCW	heard 1000 - 1115 - is "mirror" of 28610 - *)
DARC	28570,0	vt	24	11	CYP	OTHR	FMCW	heard 0636 - 0822 s/off
DARC	28575,0	0835	06	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	28580,0	vt	16	11	CYP	OTHR	FMCW	heard 0945 - 1008 - *)
DARC	28580,0	vt	28	11	CYP	OTHR	FMCW	heard 1250 - 1300 *)
DARC	28590,0	vt	01	11	CYP	CYP OTHR	FMCW	heard 1508 - 1526, also "mirror" 28590 and 28710 - *)
DARC	28595,0	1325	01	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	28600,0	vt	04	11	CYP	OTHR	FMCW	heard 0715 - 0750 - *)
DARC	28605,0	1200	07	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	28610,0	vt	29	11	CYP	CYP OTHR	FMCW	heard 1000 - 1115 - "mirror" on 28560 and 28660
DARC	28615,0	vt	23	11	CYP	OTHR	FMCW	heard 1030 - 1200, 1245 - 1320 *)
DARC	28625,0	1325	01	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	28630,0	vt	01	11	CYP	OTHR	FMCW	heard 1210 - 1245, also "mirror" 28640 and 28750 - *)
DARC	28635,0	1403	22	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	28640,0	0940	13	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	28645,0	1325	01	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	28650,0	vt	01	11	CYP	CYP OTHR	FMCW	heard 1508 - 1526, also "mirror" 28590 and 28710 - *)
DARC	28650,0	vt	17	11	CYP	OTHR	FMCW	heard 0830 - 0910 - *)
DARC	28650,0	1010	29	11	CYP	OTHR	FMCW	also "mirror" from 28600
DARC	28655,0	1403	22	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	28660,0	vt	29	11	CYP	OTHR	FMCW	heard 1000 - 1115 - is "mirror" of 28610 - *)
DARC	28665,0	1325	01	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	28675,0	0850	27	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	28690,0	vt	01	11	CYP	CYP OTHR	FMCW	heard 1210 - 1245, also "mirror" 28640 and 28750 - *)
DARC	28690,0	1000	26	11	TUR	Turkish OTHR	FMCW	25 sps - pin pointed by Federal Network Agency Germany
DARC	28700,0	vt	04	11	CYP	OTHR	FMCW	heard 0630 - 0650 - *)
DARC	28705,0	0940	13	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	28710,0	vt	09	11	CYP	OTHR	FMCW	heard 0915 - 0950 - *)
DARC	28715,0	1403	22	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	28715,0	vt	24	11	CYP	OTHR	FMCW	heard 1255 - 1300 - "mirror" from 28765 -
DARC	28720,0	vt	02	11	CYP	OTHR	FMCW	heard 0653 - 0711 - *)
DARC	28720,0	vt	15	11	CYP	OTHR	FMCW	heard 0735 - 0740 - *)
DARC	28725,0	0915	11	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	28735,0	1200	07	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	28750,0	vt	01	11	CYP	CYP OTHR	FMCW	heard 1210 - 1245, also "mirror" 28640 and 28750 - *)
DARC	28755,0	0940	13	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	28765,0	0630	24	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	28765,0	vt	24	11	CYP	CYP OTHR	FMCW	heard 1255 - 1300 - "mirror" on 28715 and 28815 - *)
DARC	28770,0	vt	28	11	CYP	OTHR	FMCW	heard 1300 - 1314 *)

CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	Remarks and Comments
DARC	28775,0	0815	15	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	28780,0	vt	05	11	CYP	OTHR	FMCW	heard 0615 - 0620 - *)
DARC	28780,0	vt	15	11	CYP	OTHR	FMCW	heard 0720 - 0735 - *)
DARC	28785,0	0940	13	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	28795,0	0815	15	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	28800,0	vt	21	11	CYP	OTHR	FMCW	heard 1320 - 1400 *)
DARC	28805,0	0905	29	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	28810,0	vt	28	11	CYP	OTHR	FMCW	heard 1225 - 1235 *)
DARC	28815,0	1325	01	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	28815,0	vt	24	11	CYP	OTHR	FMCW	heard 1255 - 1300 - "mirror" from 28765 -
DARC	28825,0	1030	03	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	28835,0	1325	01	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	28850,0	vt	24	11	CYP	OTHR	FMCW	heard 1015 - 1047 - "mirror" from 28900 *)
DARC	28855,0	1325	01	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	28865,0	0915	11	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	28870,0	vt	25	11	CYP	OTHR	FMCW	heard 1250 - 1320 - *)
DARC	28875,0	1200	07	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	28875,0	0750	14	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	28880,0	vt	10	11	CYP	OTHR	FMCW	heard 1405 - 1407 - "mirror" - *)
DARC	28890,0	0940	13	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	28900,0	vt	03	11	CYP	OTHR	FMCW	heard 0625 - 0650 - *)
DARC	28900,0	vt	24	11	CYP	OTHR	FMCW	heard 1015 - 1047 - "mirror" on 28850 and 28950 - *)
DARC	28905,0	0915	11	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	28905,0	vt	28	11	CYP	OTHR	FMCW	heard 1115 - 1135 *)
DARC	28915,0	0850	27	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	28920,0	vt	29	11	CYP	OTHR	FMCW	heard 0930 - 0945 - is "mirror" of 28970 - *)
DARC	28925,0	0630	24	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	28930,0	vt	10	11	CYP	CYP OTHR	FMCW	heard 1405 - 1407 - "mirror" on 28880 and 28980 - *)
DARC	28930,0	0750	14	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	28930,0	vt	16	11	CYP	OTHR	FMCW	heard 0705 - 0727
DARC	28930,0	0850	27	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	28935,0	1325	01	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	28940,0	0835	06	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	28940,0	vt	15	11	CYP	OTHR	FMCW	heard 0740 - 0745 - *)
DARC	28945,0	1405	10	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	28950,0	vt	24	11	CYP	OTHR	FMCW	heard 1015 - 1047 - "mirror" from 28900 *)
DARC	28950,0	0855	27	11		OTHR	FMCW	OTHR heard
DARC	28955,0	0755	12	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	28965,0	1200	07	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	28970,0	vt	13	11	CYP	OTHR	FMCW	heard 1050 - 1515 - *)
DARC	28970,0	0630	24	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	28970,0	vt	29	11	CYP	OTHR	FMCW	heard 0930 - 0945 - "mirror" on 28920 and 29020
DARC	28980,0	vt	10	11	CYP	OTHR	FMCW	heard 1405 - 1407 - "mirror" - *)
DARC	28980,0	0640	24	11		UiBC	A3E	harmonic ?, S6, QTE 045 degs.
DARC	28995,0	1325	01	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	29000,0	vt	22	11	CYP	OTHR	FMCW	heard 0815 - 00820 - *)
DARC	29000,0	vt	23	11	CYP	OTHR	FMCW	heard 0740 - 0750 - is "mirror" of 29050 *)
DARC	29005,0	0853	01	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	29015,0	0630	24	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	29020,0	vt	25	11	CYP	OTHR	FMCW	heard 0840 - 0920 - "mirror" from 29070 -
DARC	29020,0	vt	29	11	CYP	OTHR	FMCW	heard 0930 - 0945 - is "mirror" of 28970 - *)
DARC	29025,0	0835	06	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	29035,0	0850	07	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	29050,0	vt	23	11	CYP	CYP OTHR	FMCW	heard 0740 - 0750 - "mirror" on 29000 and 29100 *)
DARC	29055,0	1030	03	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	29070,0	vt	25	11	CYP	CYP OTHR	FMCW	heard 0840 - 0920 - "mirror" on 29020 and 29120 - *)
DARC	29075,0	0915	11	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	29085,0	0750	14	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	29095,0	0822	08	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	29100,0	vt	11	11	CYP	OTHR	FMCW	heard 0835 - 0850 - *)
DARC	29100,0	0750	14	11	CIS	Taxi Traffic	F3E	female to male in Russian voice

CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	Remarks and Comments
DARC	29100,0	vt	16	11	CYP	CYP OTHR	FMCW	heard 0900 - 0932 - "mirror" on 29050 and 29150 - *)
DARC	29100,0	vt	23	11	CYP	OTHR	FMCW	heard 0740 - 0750 - is "mirror" of 29050 *)
DARC	29105,0	0853	01	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	29115,0	0940	13	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	29120,0	vt	25	11	CYP	OTHR	FMCW	heard 0840 - 0920 - "mirror" from 29070 -
DARC	29125,0	0858	01	11		UiILL	F3E	unid language, QTE 060 degs., no ham
DARC	29135,0	0940	13	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	29150,0	vt	29	11	CYP	OTHR	FMCW	heard 0945 - 1000 - is "mirror" of 29200 - *)
DARC	29155,0	0853	01	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	29165,0	0853	01	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	29165,0	vt	09	11	CYP	OTHR	FMCW	heard 1325 - 1355 - *)
DARC	29165,0	0940	13	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	29170,0	1325	01	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	29170,0	vt	06	11	CYP	OTHR	FMCW	heard 1125 - 1200 - *)
DARC	29175,0	0750	14	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	29185,0	0915	11	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	29190,0	vt	19	11	CYP	CYP OTHR	FMCW	heard 1148 - 1205 - "mirror" 29140 and 29240 *)
DARC	29190,0	vt	19	11	CYP	OTHR	FMCW	heard 1148 - 1205 - "mirror" of 29190 *)
DARC	29200,0	vt	29	11	CYP	CYP OTHR	FMCW	heard 0945 - 1000 - "mirror" on 29150 and 29250 - *)
DARC	29205,0	0850	07	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	29210,0	vt	24	11	CYP	OTHR	FMCW	heard 1240 - 1250 - "mirror" from 29260 -
DARC	29215,0	0850	07	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	29230,0	0940	13	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	29230,0	vt	18	11	CYP	OTHR	FMCW	heard 1025 - 1105 - *)
DARC	29235,0	0750	14	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	29240,0	vt	19	11	CYP	OTHR	FMCW	heard 1148 - 1205 - "mirror" of 29190 *)
DARC	29250,0	vt	07	11	CYP	OTHR	FMCW	heard 0830 - 0905 - *)
DARC	29250,0	vt	29	11	CYP	OTHR	FMCW	heard 0945 - 1000 - is "mirror" of 29200 - *)
DARC	29260,0	1405	10	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	29260,0	vt	24	11	CYP	CYP OTHR	FMCW	heard 1240 - 1250 - "mirror" on 29210 and 29310 - *)
DARC	29265,0	0940	13	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	29275,0	0750	14	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	29280,0	vt	17	11	CYP	OTHR	FMCW	heard 1100 - 1115, 1140 - 1150 - *)
DARC	29290,0	0940	13	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	29295,0	vt	09	11	CYP	OTHR	FMCW	heard 0955 - 1030 - *)
DARC	29300,0	vt	03	11	CYP	CYP OTHR	FMCW	heard 0700 - 0715, also "mirror" 29240 and 29360 - *)
DARC	29310,0	vt	24	11	CYP	OTHR	FMCW	heard 1240 - 1250 - "mirror" from 29260 -
DARC	29320,0	vt	22	11	CYP	OTHR	FMCW	heard 0830 - 0845, 1130 - 1310 - *)
DARC	29345,0	0750	14	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	29350,0	vt	16	11	CYP	OTHR	FMCW	heard 0630 - 0700 - *)
DARC	29360,0	vt	03	11	CYP	OTHR	FMCW	heard 0700 - 0715, also "mirror" of 29300 -
DARC	29375,0	0940	13	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	29385,0	0750	14	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	29415,0	0907	08	11	CYP	OTHR	FMCW	is active
DARC	29435,0	0915	11	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	29440,0	1200	07	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	29445,0	0822	08	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	29450,0	vt	17	11	CYP	OTHR	FMCW	heard 0920 - 0940 - "mirror" of 29500 - *)
DARC	29455,0	1405	10	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	29465,0	0915	11	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	29485,0	0815	15	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	29490,0	0822	08	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	29495,0	1200	07	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	29500,0	0935	17	11	CYP	CYP OTHR	FMCW	50 sps - pin pointed by Federal Network Agency Germany
DARC	29515,0	1200	07	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	29525,0	0853	01	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	29535,0	0850	27	11	CIS	Taxi Traffic	F3E	female to male in Russian voice
DARC	29550,0	vt	25	11	CYP	OTHR	FMCW	heard 1200 - 1245 - *)
DARC	29575,0	vt	vd	11	RUS	Taxi Traffic	F3E	taxis heard 20 21 at 1818, 1716, location is Moscow

CLUB	kHz	UTC	DD	MM	ITU	Call Sign	MODE	Remarks and Comments		
DARC	29600,0	0900	07	11	CYP	CYP OTHR	FMCW	S9+20dB signal, also audible on 29540, 29555, 29605 29645 at the same time		
DARC	29600,0	vt	16	11	CYP	OTHR	FMCW	heard 0820 - 0840 - "mirror" - *)		
DARC	29610,0	vt	09	11	CYP	OTHR	FMCW	heard 0710 - 0725 - *)		
DARC	29615,0	1405	10	11	CIS	Taxi Traffic	F3E	female to male in Russian voice		
DARC	29620,0	vt	11	11	CYP	OTHR	FMCW	heard 0705 - 0730 - *)		
DARC	29620,0	vt	28	11	CYP	OTHR	FMCW	heard 1215 - 1225 *)		
DARC	29625,0	0915	11	11	CIS	Taxi Traffic	F3E	female to male in Russian voice		
DARC	29630,0	0750	14	11	CIS	Taxi Traffic	F3E	female to male in Russian voice		
DARC	29635,0	0850	07	11	CIS	Taxi Traffic	F3E	female to male in Russian voice		
DARC	29640,0	vt	07	11	CYP	OTHR	FMCW	heard 1216 - 1305		
DARC	29650,0	vt	07	11	CYP	OTHR	FMCW	heard 1205 - 1315 - *)		
DARC	29650,0	vt	16	11	CYP	OTHR	FMCW	heard 0820 - 0840 - "mirror" on 29600 and 29700*)		
DARC	29655,0	0915	11	11	CIS	Taxi Traffic	F3E	female to male in Russian voice		
DARC	29655,0	vt	24	11	CYP	OTHR	FMCW	heard 1300 - 1310 - *)		
DARC	29665,0	0915	11	11	CIS	Taxi Traffic	F3E	female to male in Russian voice		
DARC	29670,0	vt	17	11	CYP	OTHR	FMCW	heard 0900 - 0910 - *)		
DARC	29670,0	vt	22	11	CYP	OTHR	FMCW	heard - 1210 - 1220 - *)		
DARC	29700,0	vt	16	11	CYP	OTHR	FMCW	heard 0820 - 0840 - "mirror" of 29650 - *)		
DARC	29935,0	0940	13	11	CIS	Taxi Traffic	F3E	female to male in Russian voice - higher than ham band - just info!		
DARC	29945,0	0850	27	11	CIS	Taxi Traffic	F3E	female to male in Russian voice - higher than ham band - just info!		
DARC	28000-29700	0000	00	11	CYP	OTHR	FMCW	reports with *) are from DG0JBJ, gained with Perseus equipment		

### DARC 3 – Germany - DK2OM (Wolf)

PSE observe:

FSK transmissions -> center frequency between mark and space

PSK transmissions -> center frequency (subtract 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	11	POL		A3E			Polish "PIP" – 10 tones – navigation system - North-Poland – Baltic coast - POL Navy – legal operation
DARC	1876,8	ady	dly	11	G		PSK8	2400	2400	Stanag4285 - 1200 bps long - Scotland
DARC	1896,5	ady	dly	11	D		PSK8	2400	2400	Stanag4285 - 600 bps long - German Navy
DARC	3500,0	vt	dly	11	TUR	no ITU	FSK8	125	1750	ALE, "2015" "2016" "1020" "3010"- Turkish Red Crescent - legal
DARC	3502,0	1850	16	11	RUS		PSK2	120	2600	AT3004D - Petrozavodsk
DARC	3503,5	vt	dly	11	G	no ITU	FSK8	125	1750	ALE – "XSS" "XPU" – British MIL Tascomm
DARC	3505,6	1630	20	11			FSK8	125	1750	Thales 3000
DARC	3510,0	vt	dly	11	ALG	no ITU	FSK8	125	1750	ALE, "JE30" "PT30"
DARC	3522,0	2041	09	11	LTU		F1B	101	245	idle 101 Bd, traffic 75 Bd
DARC	3527,0	1900	dly	11	RUS		F1B	50	200	Severomorsk - daily
DARC	3531,0	1900	dly	11	RUS		A1A			33 dots/sec - Kaliningrad
DARC	3533,0	vt	dly	11	E	no ITU	FSK8	125	1750	ALE, "TZSC2" "TWBZ1" - Spanish Guardia Civil
DARC	3545,0	vt	dly	11	ALG	no ITU	FSK8	125	1750	ALE, "FL49" "FL57" "PT50" - ALG MIL + voice traffic USB and scrambler
DARC	3550,0	2210	14	11	RUS		PSK	120	2600	AT3004D
DARC	3553,8	ady	dly	11	TUR		PSK8	2400	2400	Stanag4285 – TUR MIL - Ankara
DARC	3558,0	vt	dly	11			FSK8	125	1750	ALE, "102" "206"
DARC	3562,0	1740	18	11	RUS		PSK2	120	2600	AT3004D - St. Petersburg

DARC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DARC	3585,0	1700	dly	11	TWN	HLL	F1C			120 rpm, IOC 576, Wxfax - legal!
DARC	3590,0	vt	dly	11	PAK	no ITU	FSK8	125	1750	ALE, "KW" "ZULFIQUARI" "KHAIBAR" "SAIFI" "NRS"- Pakistan Navy
DARC	3593,8	2028	23	11	MEa		PSK8	2400	2400	Stanag4285 - Middle East
DARC	3595,0	vt	dly	11	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	11	HRV	9A0ALE	FSK8	125	1750	Croatian emergency ALE-net --- for info!
DARC	3603,0	vt	vd	11	D	DA0EC	PSK8	2000	2000	RFSM 8000 – amateur emergency net - Berlin - legal operation - just for info!!!
DARC	3603,0	vt	dly	11	ALG?	no ITU	FSK8	125	1750	ALE, "PT01JL94" "JL05JL94"
DARC	3608,0	2023	05	11	RUS		F1B	50	200	Kaliningrad - daily
DARC	3611,5	vt	dly	11	D		PSK8	200	500	German APRS Net in Robust Packet - just for info!
DARC	3617,0	vt	dly	11	HRV	9A5EX	FSK8	125	1750	ALE, "9A5EX1P" – HAM-ALE - just for info
DARC	3622,5	2100	24	11	J	JMH	F1C			Tokyo Meteo – 120 rpm – IOC576 – daily, legal!!!
DARC	3698,7	1957	28	11	ISR		PSK4	75	2700	MIL-188-110 hybrid system
DARC	3699,5	2008	07	11	RUS		F1B	50	200	Kaliningrad
DARC	3726,0	1955	25	11	RUS		PSK4	120	2600	AT3104D - Kaliningrad
DARC	3756,0	ady	dly	11	UKR		A3E			UKR – pip – 10 tones – navigation system
DARC	3767,0	2009	07	11	RUS		PSK4	120	2600	AT3104D - Kaliningrad
DARC	3782,0	ady	dly	11	POR	CTP	F1B	75	850	POR Navy headquarter Lisbon
DARC	7000,0	vt	dly	11	IRQ	no ITU	FSK8	125	1750	ALE, "MEDOPS" "BMROPS" "LNGKNF" "EAGLE" "HFCFSR" "R23747" "ALZMED" "KALMED" "R24594" "T2Z224" US MIL
DARC	7000,0	2240	18	11	CHN		FMCW		280k	OTHR – 43.5 sps - 6760 - 7040 kHz
DARC	7000,0	2015	30	11	PAK		noise		75k	white noise 6970 - 7045 - area of Islamabad
DARC	7000,8	1800	09	11	RUS		OFDM	22.4	2950	OFDM112 – Severomorsk – burst with 8 introtones and continuous version
DARC	7005,3	2020	25	11	MEa		PSK	100	1000	broken signal, unstable, 100 Hz fraktion – looking like defective switching power supply
DARC	7014,0	0800	15	11			PSK2	120	2600	AT3004D -
DARC	7020,0	2031	04	11	PAK		noise		10k	white noise 7020 - 7055 - area of Islamabad
DARC	7020,0	vt	dly	11		no ITU	FSK8	125	1750	ALE, "RS0013" "CS004A" NATO NC3A-network
DARC	7020,0	1239	30	11			N0N			unid carrier
DARC	7038,7	ady	dly	11	UKR	D	A1A			Cluster beacon – Sevastopol RUS Navy – "RCV"
DARC	7038,8	ady	dly	11	RUS	P	A1A			Cluster beacon – Kaliningrad RUS Navy – "RMP"
DARC	7038,9	ady	dly	11	RUS	S	A1A			Cluster beacon – Murmansk RUS Navy – „RIT“
DARC	7039,0	ady	dly	11	RUS	C	A1A			Cluster beacon - Moscow RUS Navy - "RIW"
DARC	7039,1	vt	dly	11	KGZ	A	A1A			Cluster beacon – Bishkek RUS Navy – "RJH25"
DARC	7039,2	ady	dly	11	RUS	F	A1A			Cluster beacon - Vladivostok RUS Navy - "RJS"
DARC	7039,3	vt	dly	11	RUS	K	A1A			Cluster beacon - Petropavlovsk Kamchatskiy - RUS Navy - Pacific fleet - "RCC"

DARC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DARC	7039,4	1437	03	11	RUS	M	A1A			Cluster beacon – Magadan RUS Navy – „RTS“
DARC	7040,5	vt	dly	11	HRV	9A5EX	FSK8	125	1750	ALE, “9A5EX” - just for info!
DARC	7041,8	ady	dly	11	RUS	L	A1A			Cluster beacon “L” - St. Petersburg - “RJC66”
DARC	7049,5	vt	dly	11	F	F4BXW1	FSK8	125	1750	ALE, “F4BXW1” - just for info!
DARC	7054,0	1800	dly	11	RUS		F1B	50	200	CIS50-50 - RUS Navy Moscow – strange signal
DARC	7065,0	vt	dly	11	HRV	9A5EX	FSK8	125	1750	ALE, “9A5EX” - just for info!
DARC	7099,5	vt	dly	11	HRV	9A0ZG	FSK8	125	1750	ALE, “9A0ZG” - just for info
DARC	7102,0	vt	dly	11	HRV		FSK8	125	1750	ALE, “9A3COL” – just for info!
DARC	7110,5	vt	dly	11	HRV	9A0ALE	FSK8	125	1750	ALE, amateur net, just for info!
DARC	7111,9	vt	dly	11	KWT	no ITU	FSK8	125	1750	ALE, “UDAIRI” “ATFOPS” – UDAIRI = US MIL Camp Buehring / Kuwait
DARC	7113,0	1900	10	11	RUS		FMCW		10k	Russian OTHR – 47.6 sps – 2.8 sec bursts
DARC	7123,0	1633	26	11						frequency hopper
DARC	7132,0	0750	15	11	RUS		PSK2	120	2600	AT3004D - Kaliningrad
DARC	7176,0	1420	16	11	RUS		F1B	75	250	Orenburg
DARC	7180,0	vt	dly	11	MRC	no ITU	FSK8	125	1750	ALE, “9201” “6350” “RC1”
DARC	7185,5	vt	dly	11	F	F4BXW	FSK8	125	1750	ALE, “F4BXW” - just for info!
DARC	10106,0	vt	dly	11	ALG	no ITU	FSK8	125	1750	ALE, “OG100A” “OR200B” - Algerian MIL
DARC	10107,0	vt	dly	11			FSK8	125	1750	ALE, “193”
DARC	10110,0	vt	vd	11	SNG	no ITU	FSK8	125	1750	ALE, “CN6” “68” – Singapore Navy - Changi Naval Base with frigate “RSS Formidable”
DARC	10112,0	ady	dly	11	TUR		PSK8	2400	2400	Stanag4285 – 600 bps long – TUR MIL - Izmir
DARC	10115,0	vt	dly	11		no ITU	FSK8	125	1750	ALE, “2001”, “2011”
DARC	10116,7	1743	01	11	CIS		MFSK	54.3	2200	CIS36
DARC	10120,0	vt	dly	11		no ITU	FSK2	125	1750	ALE, “9066” “9067”
DARC	10120,5	2012	22	11			PSK2	120	2600	AT31004D -
DARC	10124,0	1948	02	11	RUS		PSK2	120	2600	ship - Baltic Sea
DARC	10130,0	0645	dly	11	USA		F1B	50	850	USA - Maine
DARC	10130,0	2232	03	11			FSK8	125	1750	Thales 3000
DARC	10130,0	2036	15	11		no ITU	FSK8	125	1750	ALE, “9VT”
DARC	10134,0	vt	dly	11	ALG	no ITU	FSK8	125	1750	ALE, “CM4” “COF” - Algerian Airforce
DARC	10136,5	vt	dly	11	F	F4BXW	FSK8	125	1750	ALE, “F4BXW” - just for info!
DARC	10140,0	1816	01	11	CHN		FMCW		30k	Chinese coastal Radar – 2.6 sps – 10140 – 10170 kHz - daily
DARC	10145,0	0745	12	11						frequency hopper
DARC	10145,0	1723	27	11			FMCW		20k	OTH Radar
DARC	10145,5	vt	dly	11	HRV	9A5EX	FSK8	125	1750	ALE, 9A5EX, just for info!
DARC	10146,0	vt	dly	11	ALG	no ITU	FSK8	125	1750	ALE, “ORG” “CM4” – ALG Airforce
DARC	10150,0	vt	dly	11		no ITU	FSK8	125	1750	ALE, “CFA” “CTA”
DARC	14000,0	vt	dly	11	CYP	no ITU	FSK8	125	1750	ALE, “091” “1010”
DARC	14023,0	0834	15	11						frequency hopper
DARC	14026,0	0843	03	11	RUS		PSK4	120	2600	AT3104D - East of Moscow
DARC	14028,0	0835	15	11	RUS		PSK2	120	2600	AT3004D
DARC	14037,0	vt	dly	11		no ITU	FSK8	125	1750	ALE, “313” “132” “932”
DARC	14056,0	0700	01	11	CHN		PSK4	75	2250	PRC4+4 - East China
DARC	14056,0	1130	01	11	RUS		F1B	75	250	Novosibirsk
DARC	14086,0	0729	04	11	KGZ		PSK2	120	2600	area of Kirgisistan
DARC	14162,0	0835	21	11	RUS		PSK2	120	2600	AT3004D - Velikije Luki
DARC	14192,0	vt	vd	11	RUS		F1B	50	500 200	CIS50-50 - RUS Navy Kaliningrad
DARC	14227,0	1407	03	11	RUS		FMCW		10k	Russian OTH Radar – bursts of 83.3 sps and 1.5 sec length every 15 sec – 10 kHz wide - Irkutsk
DARC	14247,0	vt	dly	11	E	no ITU	FSK8	125	1750	ALE, “151” “250”
DARC	14287,0	0632	01	11	CHN		PSK4	75	2250	PRC4+4 - East China
DARC	14289,0	0802	16	11	RUS		F1B	100	250	area of Moscow

DARC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DARC	14292,0	0755	14	11	RUS		F1B	100	250	area of Moscow
DARC	14315,0	1102	30	11						frequency hopper
DARC	14316,0	vt	dly	11	?	no ITU	FSK8	125	1750	ALE, "601" "611"
DARC	14325,1	vt	vd	11	FEa	no ITU	FSK8	125	1750	ALE, "776" "699" "475"
DARC	14329,8	0655	01	11	CHN		OFDM			OFDM39 – West China
DARC	14341,0	vt	31	11	I		FSK8	125	1750	ALE, "20" - area of Rome
DARC	14343,0	vt	dly	11		no ITU	FSK8	125	1750	ALE, "L06" "A98"
DARC	14346,0	1219	16	11	RUS		F1B	75	250	Far-East Russia
DARC	18102,0	0849	21	11						frequency hopper
DARC	18107,0	vt	vd	11	RUS		F1B	36/50	200	Moscow
DARC	21000,0	vt	dly	11			FSK8	125	1750	ALE, "Y" "M7X"
DARC	21037,8	1210	16	11	CYP		PSK	2400	2400	Cyprus
DARC	21070,0	1623	14	11						frequency hopper
DARC	21089,5	vt	dly	11	HRV	9A5EX	FSK8	125	1750	ALE, "9A5EX" - just for info!
DARC	21250,0	1030	26	11	TUR		FMCW		20k	OTH Radar – 50 sps – South-East-Turkey
DARC	21400,0	0800	vd	11	RUS		F1B	50 async	2000	harmonic from 5350 – area of Jekaterinburg - daily
DARC	21409,5	0630	11	11	RUS		F1B	100	2000	harmonic from 5352.375
DARC	21426,0	0750	14	11	RUS		F1B	50	750	harmonic
DARC	21438,0	vt	vd	11	UKR	RCV	A1A			RIP90 de RCV - RUS Navy Sevastopol
DARC	21440,8	1008	17	11	AFG		PSK8	2400	2400	MIL-188-110A and Link11-SLEW - daily
DARC	21442,0	0746	14	11	RUS		FMCW		10k	OTHR RUS, 6.7 sps, 2 sec bursts, jumping up to 21454 and down
DARC	24965,0	1104	30	11	CYP		FMCW		20k	OTH Radar Cyprus, 50 sps
DARC	25000,0	ady	dly	11	FIN		A3E			time signal Helsinki – just for info – carrier on 25000 – dots on 25001
DARC	28000,0	0934	14	11	RUS		FMCW		20k	OTH Radar Cyprus, 25 sps
DARC	28008,0	1421	22	11						frequency hopper
DARC	28035,0	1527	05	11						frequency hopper
DARC	28100,0	1035	09	11	CYP		FMCW		20k	OTH Radar Cyprus, 50 sps
DARC	28118,0	0840	09	11						frequency hopper
DARC	28200,0	0752	06	11	CYP		FMCW		20k	OTH Radar Cyprus, 50 sps
DARC	28230,0	0849	22	11	CYP		FMCW		20k	OTH Radar Cyprus, 50 sps
DARC	28265,0	1502	11	11						frequency hopper
DARC	28290,0	0857	02	11	CYP		FMCW		10k	OTH Radar Cyprus, 25 sps
DARC	28300,0	0940	05	11	CYP		FMCW		50k	OTH Radar Cyprus, 50 sps
DARC	28300,0	0625	01	11	CYP		FMCW		20k	OTH Radar Cyprus, 50 sps
DARC	28320,0	0932	16	11	CYP		FMCW		10k	OTH Radar Cyprus, 50 sps
DARC	28690,0	1000	26	11	TUR		FMCW		20k	OTH Radar – 25 sps – West-Turkey
DARC	29355,0	0620	01	11	CHN		DRM			East China
DARC	29500,0	0935	17	11	CYP		FMCW		20k	OTH Radar Cyprus, 50 sps
DARC	29660,0	1038	24	11	RUS		F1B	50	1000	harmonic from 14830.0 – bad signal – Krasnoyarsk – Far East Russia

IRTS – Ireland – EI4GXB (Ger)

KARS – Kuwait – 9K2RR (Faisal)

MRASZ – Hungary - HA7PL (Laci)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
MRASZ	7000.3	0948	13	11			A1A			„vvvvvv“ v string
MRASZ	7002.9	0947	13	11			A1A			“vvvvvv” v string
MRASZ	7003.0	1542	12	11		UiBC	A3E			Distorted modulation
MRASZ	7038.7	ady	dly	11	RUS	D	A1A			beacon "D"
MRASZ	7038.8	ady	dly	11	RUS	P	A1A			beacon "P"
MRASZ	7014.0	0946	13	11						



SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
MRASZ	7038.9	ady	dly	11	RUS	S	A1A			beacon "S"
MRASZ	7039.0	ady	dly	11	RUS	C	A1A			beacon "C"
MRASZ	7041.8	ady	dly	11	RUS	L	A1A			beacon "L"
MRASZ	7054.0	1900	18	11	RUS		F1B	50	200	
MRASZ	7054.0	1819	19	11	RUS		F1B	50	200	
MRASZ	7054.0	1714	16	11	RUS		F1B	50	200	
MRASZ	7165.0	1716	16	11		UiBC	A3E			music
MRASZ	7169.5	1037	13	11			F1B		2250	
MRASZ	7176.0	1039	13	11			F1B	75	250	
MRASZ	7199.2	1041	13	11		UiMUX	J7D			

### OEVSV – Austria – OE3DMA (Alex)

### PZK – Poland – SP3UZ (Wladyslaw)

### REP – Portugal – CT4AN (Jose Francisco)

SOC	KHz	UTC	DD	MM	ITU	IDENT	MODE	DETAILS	
REP	3500,0	19.00	02	11	n.i.		J3E-L	Voices on a possible Duplex operation	
REP	3504,0	07.12	14	11	E		J3E-U	Fishermen	
REP	7030,0	17.19	11	11	n.i.		-	Signals like OTH sweeps	
REP	7038,0	07.12	28	11	E		J3E-U	Fishermen sea to sea	
REP	7038,6	20.00	11	11	RUS	S	A1A	KALININGRAD, ADY, DLY	0.2uV S1
REP	7038,7	23.34	19	11	UKR	D	A1A	SEVASTOPOL, ADY, DLY	3.1uV S5
REP	7038,8	23.40	19	11	RUS	P	A1A	MURMANSK, ADY, DLY	0.2uV S1
REP	7039,0	23.09	19	11	RUS	C	A1A	MOSCOW, ADY, DLY	3.1uV S5
REP	7039,1	23.16	16	11	RUS	A	A1A	VOLGOGRAD, ADY, DLY	6.3uV S6
REP	7039,2	22.56	16	11	RUS	F	A1A	KAMCHATSKY, ADY, DLY	3.1uV S5
REP	7039,3	22.44	20	11	RUS	K	A1A	VOLGOGRAD, ADY, DLY	6.3uV S6
REP	7039,5	22.50	20	11	RUS	M	A1A	MAGADAN, ADY, DLY	3.1uV S5
REP	7041,0	20.58	11	11	RUS	L	A1A	St PETERSBURG, ADY, DLY	0.2uV S1
REP	7056,0	17.05	28	11	n.i.		A3	Several digital tones encoding	50uV S9
REP	7105,0	22.48	07	11	CHN		8k00 A3EGN	Radio (Chinese lang.)	6.3uV S6
REP	7118,0	21.02	04	11	n.i.		F1B	RTTY non standard Baud/Shift	
REP	7180,0	07.19	25	11	n.i.		J3E-U	Fishermen talking (boat noise and names)	
REP	10103,0	21.14	27	11	MRC		J3E-U	Fishermen	
REP	10140,0	16.02	13	11	n.i.		-	OTH like signals	
REP	10150,0	22.00	13	11	n.i.		J3E-U	English voices exchanging business info	
REP	14000,0	07.50	22	11	E		J3E-U	Fishermen spanish lang.	
REP	14003,0	08.33	22	11	E		J3E-U	Fishermen	
REP	14195,0	13.30	23	11	I		J3E-U	Music and mess interfering IT9RYH CQ's. During all afternoon	500uV S9+20
REP	14280,0	20.01	30	11	n.i.		A3E	Number station in English language	
REP	18082,0	13.15	01	11	n.i.		A1	Carrier	50uV S9
REP	21005,0	20.49	21	11	n.i.		J3E-U	Inversed coded voice	
REP	21012,5	08.24	18	11	E		J3E-L	Fishermen ??	
REP	28065,0	10.05	10	11	RUS		F3E	Taxis	
REP	28135,0	11.03	25	11	RUS		F3E	Taxis (female voice – central coordenating ?)	
REP	28175,0	11.00	25	11	RUS		F3E	Taxis	
REP	28245,0	11.01	06	11	RUS		F3E	Taxis	

### RSGB - Great Britain – G4BOH (Chris)

Society	QRG	UTC	DD	MM	ITU	IDENT	MODE	REMARKS
RSGB	28-29.7 MHz	24H	DLY	11	RUS	Taxis	F3	Recordings of activity on 28155 kHz sent to Baldock. They sent complaint to Russian authorities.
RSGB	14280 kHz	1006 - 1016	Each Weds.	11	UKR	Numbers station	A3	Numbers station from Ukraine, Russian language.

**SRAL – Finland – OH2BLU (Pekka)**

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
SRAL	7001,0	0625-1400	*	11		UiMUX	J7D	12x120	12x200	Days: 16, 14, 24
SRAL	7012,0	0900-1100	*	11		UiPTR	F1B		250	Days: 1, 14, 15
SRAL	7013,5	0730-1140	3, 4	11		UiPTR	F1B		200	
SRAL	7014,0	0805	15	11		UiMUX	J7D	12x120	12x200	
SRAL	7014,0	1030	24	11		UiPTR	F1B		250	
SRAL	7017,5	1345	28	11		UiPTR	F1B		250	
SRAL	7016,0	0950	29	11		UiMUX	J7D	12x120	12x200	
SRAL	7038,7	h24	dly	11	UKR	D	A1A			Sevastopol, on 2 <sup>nd</sup> to 3 <sup>rd</sup> L
SRAL	7038,8	h24	1-27	11	RUS	P	A1A			Kaliningrad, on 18 <sup>th</sup> T
SRAL	7038,9	h24	dly	11	RUS	S	A1A			Severomorsk
SRAL	7039,0	h24	dly	11	RUS	C	A1A			Moscow
SRAL	7039,1	1700-2030	1-5	11	KGZ	A	A1A			Kirgisistan
SRAL	7041,8	h24	dly	11	RUS	L	A1A			St Peterburg
SRAL	7054,0	0500-0700	dly	11	RUS	REA4	F1B		200	Moscow
SRAL	7054,0	1700-2000	dly	11	RUS	REA4	F1B		200	Moscow
SRAL	7056,0	1300-1330	26	11		UiMUX	J7D	24x120	2x12x200	Double BW
SRAL	7089,0	1100-1200	17	11		UiMUX	J7D	12x120	12x200	
SRAL	7098,0	0750-1330	1, 6, 30	11		UiPTR	F1B		200/250	
SRAL	7099,0	1210-1315	19	11		UiMUX	J7D	24x120	2x12x200	Double BW
SRAL	7100,0	1600	24	11		UiMUX	J7D	12x120	12x200	
SRAL	7113,0	0650	2	11		UiMUX	J7D	12x120	12x200	
SRAL	7114,0	0400-1820	*	11		UiMUX	J7D	12x120	12x200	Days: 7, 12, 13, 17, 18, 21
SRAL	7116,0	1430-1500	14	11		UiPTR	F1B		200	
SRAL	7119,0	0620-1330	*	11		UiPTR	F1B		225/250	Days: 9, 16, 20, 23, 26
SRAL	7120,0	0300-0515	dly	11	ERI	VoBME 1	A3E			jammed by ETH, QSY 7100 - 7130 kHz
SRAL	7120,0	1430-1800	dly	11	ERI	VoBME 1	A3E			QSY 7100 – 7130 kHz, jammed by ETH until 1700
SRAL	7122,0	0600-1000	7, 10	11	RUS	UiMUX	J7D	12x120	12x200	
SRAL	7132,0	0630-1700	15, 17	11	RUS	UiMUX	J7D	12x120	12x200	Kaliningrad
SRAL	7142,0	0700-1200	*	11		UiPTR	F1B		250	Days: 2, 13, 14, 15, 18, 23, 30
SRAL	7149,0	0745-1000	1	11		UiPTR	F1B		500	
SRAL	7162,0	0600-1500	26	11		UiPTR	F1B		250	
SRAL	7162,0	1035	30	11		UiPTR	F1B		250	
SRAL	7163,0	1415-1515	16	11		UiPTR	F1B		250	
SRAL	7167,0	0645-1400	2, 25	11		UiPTR	F1B		250	
SRAL	7175,0	0300-0515	dly	11	ERI	VoBME 2	A3E			jammed by ETH, QSY 7165 – 7185 kHz
SRAL	7175,0	1400-1805	dly	11	ERI	VoBME 2	A3E			QSY 7165 – 7185 kHz, jammed by ETH until 1700
SRAL	7176,0	0700-1600	*	11		UiPTR	F1B		250	Days: 14, 16, 25, Orenburg

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
SRAL	7186,0	0530-1500	12	11		UiMUX	J7D	12x120	12x200	
SRAL	7188,0	0745-1100	1, 23	11		UiPTR	F1B		250	
SRAL	7190,0	1020-1400	*	11		UiMUX	J7D	12x120	12x200	Days: 6, 11, 13
SRAL	7193,0	0720-1310	*	11		UiPTR	F1B		200	Days: 15 – 17, 25
SRAL	7198,0	0500-1900	*	11		UiMUX	J7D	12x120	12x200	Days: 3, 5, 8, 11, 13, 17, 30
SRAL	7200,0	0240-0600	dly	11	SDN	R Sudan	A3E			
SRAL	7200,0	1400-1530	dly	11	SDN	R Sudan	A3E			
SRAL	7200,0	1730-2030	dly	11	SDN	R Sudan	A3E			
SRAL	7200,0	1520-1630	23-30	11	AFG	R.Afganistan	A3E			
SRAL	14026,0	0755-1248/	3	11		UiMUX	J7D	12x120	12x200	
SRAL	14052,0	0850	7	11		UiMUX	J7D	12x120	12x200	
SRAL	14068,0	0750-0820	25	11		UiPTR	F1B		250	
SRAL	14086,0	0720	4	11		UiMUX	J7D	12x120	12x200	
SRAL	14171,0	0800	25	11		UiPTR	F1B			
SRAL	14171,0	0800	25	11		UiPTR	F1B			
SRAL	14292,0	0630	28	11	RUS		A1A			
SRAL	14295,1	0330-2000	dly	11	TJK	R Tojikiston	A3E			3f 4765,05 kHz, Yangiyul TX
SRAL	14302,0	0925	4	11		UiMUX	J7D	12x120	12x200	
SRAL	21415,0	1355	7	11	CYP	UiOTHR	P0N			50 Hz , 20 kHz wide
SRAL	28 MHz	0630-1410	*	11	CYP	UiOTHR	P0N			Days: 3 - 7, 9 - 16, 18 - 29, 50 Hz , 20 kHz wide
SRAL	28 MHz	0600-1330	dly	11	CIS	UiVOX	F3E			1363 reports
SRAL	28920,0	1010	28	11	IRL ?	Church	J3E-u			

## USKA – Switzerland – HB9CET (Peter)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	7000.0	0231	01	11		TAJMED	MFSK8	125	1750	MIL 188-141A
USKA	7000.0	0237	03	11		2214	MFSK8	125	1750	MIL 188-141A
USKA	7000.0	0915	03	11			N0N			long lasting carrier
USKA	7000.0	1809	10	11		ALZMED	MFSK8	125	1750	MIL 188-141A
USKA	7000.8	2150	06	11			Hybrid			Bursts, Hybrid System often
USKA	7000.8	2253	06	11			OFDM112	22.4	2k8	often
USKA	7001.8	1745	09	11			PSK-8	2400	2k6	Stanag 4285
USKA	7010.0	1035	01	11			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D
USKA	7012.0	1037	01	11			F1B	75	250	unid with some F1A sequences
USKA	7013.5	0903	03	11			F1A	50	200	
USKA	7014.0	0804	15	11			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D
USKA	7015.0	0905	03	11		RIT	A1A			RLO de RIT "Radioprognoz"
USKA	7025.0	1113	11	11			F1B	50	200	often
USKA	7038.7	1042	01	11	UKR	D	A1A			Beacon D Sevastopol daily
USKA	7038.8	1042	01	11	RUS	P	A1A			Beacon P Kaliningrad
USKA	7038.9	2343	02	11	RUS	S	A1A			Beacon S Murmansk daily
USKA	7039.0	1043	01	11	RUS	C	A1A			Beacon C Moscow daily
USKA	7039.2	2327	02	11	RUS	F	A1A			Beacon F Vladivostok daily
USKA	7039.4	2327	02	11	RUS	M	A1A			Beacon M Magadan daily
USKA	7041.8	1043	01	11	RUS	L	A1A			Beacon L daily
USKA	7054.0	2228	10	11			F1B?	50	400	curious signal? daily
USKA	7070.0	0343	01	11		244	MFSK8	125	1750	MIL 188-141A
USKA	7070.0	0350	01	11		571	MFSK8	125	1750	MIL 188-141A

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	7070.0	2000	01	11		288	MFSK8	125	1750	MIL 188-141A
USKA	7070.0	2149	10	11		810203	MFSK8	125	1750	MIL 188-141A
USKA	7088.8	1411	16	11			A1A			figures and letters only
USKA	7089.7	2147	14	11			PSK-8	2400	2k4	Link 11- SLEW
USKA	7098.0	1525	15	11			F1B	40.5	250	
USKA	7105.0	2302	08	11		TWN	A3E			BC (2 stations) daily
USKA	7105.0	2302	08	11		CHN	A3E			BC (2 stations) daily
USKA	7110.0	1637	04	11			A3E			BC, jammed
USKA	7110.0	1637	04	11			Noise		10 kHz	Jammer
USKA	7111.9	1730	10	11	KWT	UDAIRI	MFSK8	125	1750	MIL 188-141A
USKA	7127.0	1033	10	11			J7D	12x120	2k6	CIS12
USKA	7130.0	1528	15	11			A3E			BC, jammed
USKA	7130.0	1529	15	11			Noise		10 kHz	Jammer
USKA	7132.0	0810	15	11			J7D	12x120	2k6	PSK-2: CIS12 = AT3004D
USKA	7162.0	1405	16	11			F1B	75	250	
USKA	7175.0	1734	09	11			A3E			BC, unid Voice + Music
USKA	7175.0	1532	10	11			A3E			BC, jammed often
USKA	7175.0	1532	10	11			Noise		10 kHz	Jammer often
USKA	7176.0	1402	16	11			F1B	75	250	
USKA	7193.0	0807	15	11			F1B	50	200	
USKA	7198.0	2340	02	11			J7D	12x120	2k6	PSK-4: CIS12 = AT3104D often
USKA	14026.0	0850	03	11			J7D	12x120	2k6	PSK-4: CIS12 = AT3104D
USKA	18082.14	1020	06	11			N0N			long lasting carrier, drifting
USKA	21185.0	1148	14	11			FMCW	50 sps	20 kHz	OTHR
USKA	24970.0	0953	08	11			FMCW	50 sps	20 kHz	OTHR
USKA	28025.0	1126	07	11			FMCW	50 sps	20 kHz	OTHR
USKA	28110.0	1047	07	11			FMCW	50 sps	20 kHz	OTHR
USKA	28160.0	1043	07	11			FMCW	50 sps	20 kHz	OTHR
USKA	28330.0	0927	11	11			FMCW	50 sps	20 kHz	OTHR

**USKA - part 2**

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
USKA	28055.0	1113	03	11			F3E			Russian
USKA	28065.0	1107	03	11			F3E			Russian
USKA	28075.0	1049	03	11			F3E			Russian
USKA	28095.0	1050	03	11			F3E			Russian
USKA	28105.0	1048	03	11			F3E			Russian
USKA	28115.0	0950	09	11			F3E			Russian
USKA	28135.0	1051	03	11			F3E			Russian
USKA	28150.0	1044	07	11			F3E			Russian
USKA	28165.0	1052	03	11			F3E			Russian
USKA	28175.0	1059	03	11			F3E			Russian
USKA	28185.0	1053	03	11			F3E			Russian
USKA	28195.0	1045	03	11			F3E			Russian
USKA	28200.0	1332	03	11			F3E			
USKA	28215.0	1053	03	11			F3E			Russian
USKA	28225.0	1035	07	11			F3E			Russian
USKA	28235.0	1044	03	11			F3E			Russian
USKA	28255.0	0937	07	11			F3E			Russian
USKA	28265.0	1057	03	11			F3E			Russian
USKA	28275.0	0938	07	11			F3E			Russian
USKA	28305.0	1040	07	11			F3E			Russian
USKA	28335.0	0942	07	11			F3E			Russian
USKA	28625.0	0953	07	11			F3E			Russian
USKA	28715.0	0943	07	11			F3E			Russian
USKA	28755.0	1036	07	11			F3E			Russian
USKA	28765.0	0952	07	11			F3E			Russian
USKA	28805.0	0948	07	11			F3E			Russian
USKA	28925.0	0944	07	11			F3E			Russian
USKA	28925.0	1039	07	11			F3E			Russian
USKA	28955.0	0951	07	11			F3E			Russian
USKA	28965.0	1056	03	11			F3E			Russian
USKA	28980.0	0947	07	11			F3E			Russian
USKA	29015.0	1037	07	11			F3E			Russian
USKA	29160.0	0946	07	11			F3E			Russian
USKA	29435.0	0945	07	11			F3E			Russian

**Veron 1 – Netherlands – PA0GRU (Dick)**

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SHIFT	DETAILS
VERON	3527,0	19.57	17	11		UiPtr	F1B	200	Revs
VERON	3548,0	19.00	3	11		UiPTR	F1B		Ptr
VERON	3553,0	20.36	24	11		Stanag			
VERON	3580,0	18.35	16	11		UiPTR	F1B		Ptr
VERON	3699,0	20.03	17	11	RUS	UiPtr	F1B	200	Revs, Kaliningrad
VERON	3699,5	19.01	3	11		UiPTR	F1B		Revs
VERON	7038,7	15.44	5	11	UKR	D	A1A		Beacon Sevastopol
VERON	7038,8	15.44	5	11	RUS	P	A1A		Beacon Kaliningrad
VERON	7038,9	15.44	5	11	RUS	S	A1A		Beacon Murmansk
VERON	7039,0	15.44	5	11	RUS	C	A1A		Beacon Moscow
VERON	7039,1	20.33	12	11	KGZ	A	A1A		Beacon Bishkek
VERON	7041,8	18.47	5	11	RUS	L	A1A		Beacon St.Petersburg
VERON	7054,0	18.12	5	11	RUS	UiPtr	F1B	200	Idling
VERON	7054,0	19.41	5	11	RUS	UiPtr	F7B	400	5 channel printer
VERON	7054,0	vt	vd	11	CIS	UiPTR	F1B		Revs
VERON	7100,0	15.39	5	11		UiJAM			white noise jammer; 12k wide
VERON	7105,0	22.11	5	11	CHN	UiBC	A3E		2 BC stations same freq.; s7
VERON	7117,0	15.37	5	11					Frequency hopper
VERON	7175,0	15.35	5	11		UiJAM			white noise jammer; 12k wide
VERON	7180,0	08.50	9	11	F	UiILL	J3E-u		French language, male voices, fishery
VERON	7200,0	21.03	5	11	IRN	IRIB	A3E		s9+
VERON	10120,0	20.10	19	11	PA	PD7440	J3E-u		Dutch language, female, name Ada
VERON	10130,0	09.09	14	11		UiPTR	F1B		Ptr
VERON	14024,0	11.32	15	11		UiPTR	F1B		Ptr
VERON	14026,0	10.17	3	11	RUS	UiMUX	FSK		12 MPSK
VERON	14111,0	10.18	29	11	RUS	UiMUX	FSK4		MPSK4, burst every 5 seconds
VERON	14195,0	11.39	6	11		UiJAM	J3E-u		Disco music; s9+++
VERON	14195,0	15.52	18	11		UiJAM	J3E-u		Music jammer
VERON	14196,0	13.16	5	11		UiBC	A3E		Heavy distorted music; s7
VERON	14233,0	10.24	29	11		UiMUX	FSK		roaring noise, dly
VERON	14236,0	10.06	4	11		UiMUX	FSK		12 MPSK
VERON	14236,0	11.17	8	11		UiMUX	FSK		12 MPSK
VERON	18120,0	09.13	9	11		UiILL	J3E-u		Unknown language, male voices
VERON	18145,0	09.13	5	11	E	UiILL	J3E-u		Spanish-male voices
VERON	21003,0	18.26	16	11		UiPTR	F1B		Revs
VERON	21313,0	10.14	12	11					Frequency hopper
VERON	21340,0	13.19	22	11	E	UiILL	J3E-u		Spanish-male voices
VERON	25004,0	13.55	12	11		UiRadar	FMCW	30k	50 sps; disturbing part of 12M band
VERON	28055,0	08.55	24	11	RUS	UiILL	F3E		taxi, female
VERON	28085,0	14.12	27	11		UiRadar	FMCW	20k	50 sps
VERON	28125,0	12.07	11	11	CIS		F3E		Taxi business; Russian language
VERON	28150,0	12.10	11	11	CIS		F3E		Taxi business; Russian language
VERON	28150,0	10.15	22	11	CIS		F3E		Taxi business; Russian language
VERON	28174,5	12.31	12	11	CIS		F3E		Taxi business; Russian language
VERON	28185,0	12.44	13	11	CIS		F3E		Taxi business; Russian language
VERON	28194,0	12.32	12	11	CIS		F3E		Taxi business; Russian language
VERON	28195,0	12.11	11	11	CIS		F3E		Taxi business; Russian language
VERON	28215,0	10.15	22	11	CIS		F3E		Taxi business; Russian language
VERON	28234,0	12.33	12	11	CIS		F3E		Taxi business; Russian language
VERON	28235,0	12.10	12	11	CIS		F3E		Taxi business; Russian language
VERON	28255,0	10.10	22	11	CIS		F3E		Taxi business; Russian language
VERON	28263,5	12.34	12	11	CIS		F3E		Taxi business; Russian language
VERON	28284,0	12.35	12	11	CIS		F3E		Taxi business; Russian language
VERON	28315,0	12.09	12	11	CIS		F3E		Taxi business; Russian language
VERON	28332,0	09.31	12	11		UiRadar	FMCW	35k	50 sps
VERON	28354,5	10.49	6	11	CIS		F3E		Taxi business; Russian language
VERON	28355,0	12.25	20	11	CIS		F3E		Taxi business; Russian language

# IARUMS Region 1

Many thanks for your interest!

Merry Christmas and a Happy New Year!

**The monitoring team of IARU Region 1**

## credits:

Wavecom Elektronik – Buelach – Switzerland

SSB-Electronic – Iserlohn – Germany

BAZ – Special Antennas – Bad Bergzabern - Germany

FTS – Funktechnik Seipelt – Hoppegarten - Germany

German PTT (BNetzA = Federal Network Agency)

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