



# Monitoring System

## - IARUMS Region 1 -

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The monthly newsletter for Region 1

# January 2007

The members of the IARUMS Region 1 monitoring team:



## Acknowledgements

++ ARSK: 5Z4NU - Ted ++ DARC: DJ9KR - Uli ++ MRASZ: HA7PL - Laci ++ OEVSV: OE3DMA – Alex ++  
++ RSGB: G4BOH - Chris ++ SART: ZS6AKV - Hans ++ SRAL: OH2BLU - Pekka ++  
++ USKA: HB9CET - Peter ++ VERON: PA0GRU - Dick ++ RAL: OD5RI - Riri ++  
++ WA4FKI - Bill (Co-ordinator Region 2) ++ VU2UR - Arasu (Co-ordinator Region 3) ++  
++ DF5UG - Hans (EC-IARU-R1) ++ DF8FE – Martin (Webmaster assistance) ++  
++ G3VZV – Graham (satellite intrusions) ++ DK4VW - Ulli (DARC-HF-Department) ++  
++ DJ7KG - Georg (beacons) ++ DF5SX - Wolfgang (BC) ++ DARC (server support) ++  
++ German PTT ++ British PTT ++ Spanish PTT ++ Finnish PTT ++ other European PTTs ++  
++ IARU Region 1 assistance ++

Part 1: News and infos

Part 2: Detailed reports from the national co-ordinators

Important Links – available on <http://www.iarums-r1.org>

Soundfiles – <http://www.iarums-r1.org>

Latest Intruder News – often updated - <http://www.iarums-r1.org> –

## Part 1: News and infos

### 1. 14000 kHz daily abused

14000 kHz USB is daily abused by Spanish and Italian fishery, Egyptian telemetry, Far East pirates (Sri Lanka?) and a clandestine from Israel.

### 2. 3.500 – 3.800 MHz

Many ALE systems (British MIL, Ukraine MIL, Algerian OIL, Rumanian MIL), Nato Link11, AT2004D – 12 tone Russian MIL – Arcotel MAHRS – German Navy. Please observe: This band is a shared band. An official complaint is impossible.

### 3. 3756 kHz

A new system appeared on 3756 kHz: An Ukraine military channel marker, called “the pip”, transmitting permanent in AM. Each sideband contains 5 tones. The complete bandwidth of the system is 6.250 kHz!  
**Please observe the sonagram at the end of the letter!**

### 4. Homepage updates

Our homepage has been updated (Important Links, Soundfiles, Gallery, Successful Actions). The German part on the right side has been updated with further links, too.

### 5. REA4 – Russian Airforce Moscow

REA4 was again transmitting on 7018 kHz (F1B) – dots and on 7044 kHz (A1A), daily and continuous. The cluster beacons were active on 7038.700 and higher.

### 6. Far East pirates in Hindi language

Pirates from Far East are abusing 14000, 14014 and 14024 every day in USB. Ident: “ET”.  
Bearings: 110 °from Germany.

### 7. Chinese systems

More and more chinese systems can be found on our bands. Most of them are ALE systems, sometimes PRC FSK4, too.

### 8. Homepage IARUMS Region 1 <http://www.iarums-r1.org>

Homepage IARUMS Region 2 <http://www.iaruregion2.org>

Homepage IARUMS Region 3 <http://www.jarl.or.jp/iaru-r3/ms/r3msnl.htm>

## The new members of our monitoring team:



**HB9CET – Peter**  
**Coordinator of the USKA**  
**Monitoring System in Switzerland**



**OE2DMA - Alex**  
**Coordinator of the OEVSV**  
**Monitoring System in Austria**

**Both are welcomed to our Monitoring Team in Region 1!**

## Part 2: Detailed reports from the national Co-ordinators

dly = daily vt = various times ... vd = various days ... pps = pulses per second (radar systems) ... BD = Baud  
 ... SH = Shift ... J3E-U = USB ... J3E-L = LSB ... MIL = military ... NGO = non governmental organization  
 MM = month ... DD = day ... ITU = ITU abbreviation ... PRC = People Republic of China ...  
 PLA = people's liberation army

### ARSK – Kenya – 5Z4NU (Ted)

| H'd by | kHz     | UTC                 | dd  | mm | ITU          | Identity   | Mode        | Details   |
|--------|---------|---------------------|-----|----|--------------|--|-------------|---|
| ARSK   | 6999.0  | vt                  | dly | 1  | East Af.     | 52,53, others  | J3Eu        | English, KiSwahili. NGO or Military? Also Amharic or similar, may be different net. Infringes 7000 KHz.   |
| ARSK   | 07000.0 | vt                  | dly | 1  | SOM          | Boccaro, Galkayu   | J3Eu        | Somalis. Phone patching.  |
| ARSK   | 07000.0 | 1740                | 16  | 1  | ?            | UiPHONE  | J3E         | Urdu? Possibly UN peacekeeping forces.  |
| ARSK   | 07001.0 | 1325                | 4   | 1  | SOM          | UiPHONE  | J3Eu        | Somalis.  |
| ARSK   | 07002.0 | vt                  | dly | 1  | SDN          | UiPHONE  | J3E         | S. Sudan, vernacular.   |
| ARSK   | 07005.0 | vt                  | dly | 1  | SOM          | UiPHONE  | J3Eu        | Somalis.  |
| ARSK   | 07006.0 | 0547                | 1   | 1  | ETH          | UiPHONE  | J3E         | Amharic.  |
| ARSK   | 07008.0 | vt                  | dly | 1  | SDN          | M7, M18, JB, 18,   | J3Eu        | Vernacular, English, KiSwahili. SPLA.   |
| ARSK   | 07009.0 | 0548                | 1   | 1  | SOM          | UiPHONE  | J3Eu        | Somalis.  |
| ARSK   | 07011.0 | 1327                | 4   | 1  | SOM          | Baidoa   | J3E         | Somalis.  |
| ARSK   | 07012.0 | vt                  | *   | 1  | SOM          | UiPHONE  | J3Eu        | Somalis, SelCal.*1,24,  |
| ARSK   | 07015.0 | 0534                | 2   | 2  | SOM          | UiPHONE  | J3Eu        | Somalis, Selcal.  |
| ARSK   | 07017.0 | vt                  | dly | 1  | SOM          | Jowhar   | J3Eu        | Somalis.  |
| ARSK   | 07022.0 | vt                  | dly | 1  | SOM          | UiPHONE  | J3Eu        | Somalis.  |
| ARSK   | 07023.0 | vt                  | dly | 1  | SOM          | Bulla Hawa   | J3Eu        | Somalis. Phone patching.  |
| ARSK   | 07023.0 | 0500<br>0600<br>etc | dly | 1  | TZA          | Arusha, Namanga, Ngosha? Site one.   | J3Eu        | Indian language, English, KiSwahili, business. Usually calls every hour on the hour from 0500Z weekdays.  |
| ARSK   | 07026.0 | vt                  | dly | 1  | SDN          | Twiga, K1, K2, K3, JB, RS, V1, V2, P2, IF, CF,   | J3Eu        | English, NGO. Selcal.   |
| ARSK   | 07030.0 | vt                  | dly | 1  | SOM          | Berbera, Baidoa  | J3Eu        | Somalis.  |
| ARSK   | 07035.0 | vt                  | dly | 1  | SDN          | UiPHONE  | J3Eu        | Verbal Morse.   |
| ARSK   | 07038.0 | 0527                | 2   | 1  | SOM          | UiPHONE  | J3Eu        | Somalis.  |
| ARSK   | 07040.0 | vt                  | dly | 1  | ETH          | UiPHONE  | J3Eu        | Amharic.  |
| ARSK   | 07040.0 | 1328                | 4   | 1  | SOM          | UiPHONE  | J3Eu        | Somalis.  |
| ARSK   | 07045.0 | vt                  | dly | 1  | SOM          | UiPHONE  | J3Eu        | Somalis.  |
| ARSK   | 07045.0 | 0725                | 26  | 1  | ZAI          | Kabwe? Beni?   | J3Eu        | French.   |
| ARSK   | 07045.0 | vt                  | dly | 1  | SDN          | El Fasher, MM, NE, NU, AA, AK, AJ, AL, AT, AO, DU, WL1, WL2, WL4, WL5, WL9, WL10, BR, WM, NU, MAJ, | J3E<br>J3Eu | Vernacular, Dholuo?, English, phonetics. Sudan, NGO, SPLA or SNLA?  |
| ARSK   | 07045.0 | vt                  | dly | 1  | TZA<br>BUR   | Mafia, Songea, Lindi, Kalungu, Korogwe, Kilwa, Sumbawanga, Korogwe, Bujumbura (Burundi)            | J3E<br>J3Eu | Tanzania Electricity Supply Co. Usage illegal and contrary to ITU allocations. The Bujumbura connection is new (heard 17/10/06) and not understood. |
| ARSK   | 07048.0 | vt                  | dly | 1  | SDN          | WA, S, T, SM, AU, PK, PS, AC, BC, CC, Malakal, Yambio,   | J3E         | English, vernacular, verbal Morse. NGO or SPLA?   |
| ARSK   | 07050.0 | vt                  | dly | 1  | SOM          | UiPHONE  | J3Eu        | Somalis.  |
| ARSK   | 07050.0 | vt                  | dly | 1  | ZAI,<br>SDN? | A, AA, BB, J, K, D, DG, Kigali, GA,  | J3Eu        | French, English, Italian, NGO. Positions coded, Alfa, Golf etc.   |

| H'd by | kHz     | UTC  | dd  | mm | ITU                  | Identity  | Mode        | Details   |
|--------|---------|------|-----|----|----------------------|---|-------------|---|
|        |         |      |     |    | RRW?<br>UGA?<br>ETH? | W, WA, 42, 54, 4A,<br>72,691,134, 128,<br>PW, Bukavu, 4W,   |             | Selcal. Possible Kampala link.<br>May also have stations in<br>Ethiopia, Somalia and<br>Mozambique. |
| ARSK   | 07056.0 | 0530 | 2   | 1  | SOM                  | UiPHONE   | J3Eu        | Somalis.  |
| ARSK   | 07057.0 | vt   | dly |    | SOM<br>KEN?          | Kismayu, Afmadu,<br>Dobleh, Nairobi?<br>Garissa? Mandera?   | J3Eu        | Somalis, phonepatching.   |
| ARSK   | 07058.0 | 0514 | 27  | 1  | SDN                  | UiPHONE   | J3Eu        | English, vernacular. SPLA?  |
| ARSK   | 07065.0 | vt   | dly | 1  | SOM                  | UiPHONE   | J3Eu        | Somalis.  |
| ARSK   | 07066.0 | vt   | dly | 1  | SDN                  | B1, B2, AT,K1,<br>KT, CT, TI, BT,<br>B2, KR, JT, P1, LL,<br>LA, A25, BJ, RK1,<br>RK2, KA                | J3E         | S. Sudan. English, & Nilotic<br>language. NGO? Also uses 5712<br>KHz.                               |
| ARSK   | 07067.0 | 0528 | 2   | 1  | SOM                  | UiPHONE   | J3Eu        | Somali, calling Mandera. No<br>reply heard.   |
| ARSK   | 07070.0 | vt   | dly | 1  | SOM<br>ERI           | Asmara, Afmadu,<br>Dobleh, Baidoa,<br>Merere, Garoe,<br>Burhane,<br>Mogadishu,<br>Kismayu,<br>Beletwein | J3Eu        | Somalis. SelCal.  |
| ARSK   | 07072.0 | 1330 | 4   | 1  | SOM                  | UiPHONE   | J3Eu        | Somalis.  |
| ARSK   | 07075.0 | vt   | dly | 1  | SOM                  | Galkayu, Kismayu,<br>Baidoa   | J3E<br>J3Eu | Somalis. SelCal, phonepatching.   |
| ARSK   | 07077.0 | vt   | 4   | 1  | SOM                  | UiPHONE   | J3Eu        | Somalis.  |
| ARSK   | 07080.0 | vt   | dly | 1  | ZAI                  | UiPHONE   | J3Eu        | French, vernacular.   |
| ARSK   | 07090.0 | 0850 | 13  | 1  | ZAI                  | UiPHONE   | J3Eu        | French.   |

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

| CLUB | kHz    | UTC  | DD | MM | MODE  | ITU    | IDENT                             | REMARKS  |
|------|--------|------|----|----|-------|--------|-----------------------------------|--|
| DARC | 3535,0 | 2120 | 23 | 01 | J3E-U | E      | Info                              | Spanish fishery  |
| DARC | 3536,0 | 2022 | 08 | 01 | J3E-U | E      | Info                              | Spanish fishery  |
| DARC | 3544,0 | 2201 | 11 | 01 | A3E   | ISR    | Mossad<br>Israel                  | female voice repeating "Yankee Hotel<br>Foxtrot Two", AM with one sideband<br>(Upper-Sideband), other sideband<br>suppressed |
| DARC | 3550,0 | 2113 | 13 | 01 | A3E   | F      | Info                              | French hams in AM, disrespect of IARU<br>bandplans! No intruders!  |
| DARC | 3550,0 | 0650 | 23 | 01 | A3E   | F      | Info                              | French hams in AM, disrespect of IARU<br>bandplans! No intruders!  |
| DARC | 3556,0 | 0653 | 30 | 01 | A3E   | F      | Info                              | French hams in AM, disrespect of IARU<br>bandplans! No intruders!  |
| DARC | 7000,0 | 0840 | 23 | 01 | J3E-U | TUR    | UiILL                             | large net of Turkish male persons, test<br>counts and short messages, also whistles<br>("bir, ekis, dokus, utsh, besh...")   |
| DARC | 7000,0 | 1254 | 23 | 01 | J3E-U | I / Af | Sierra<br>Romeo,<br>Papa<br>Romeo | It male persons "Sierra Romeo", "Papa<br>Romeo - over"   |
| DARC | 7000,0 | 1530 |    | 01 | J3E-U |        | UiILL                             | unid pirates, using USB  |
| DARC | 7000,0 | vt   | 08 | 01 | J3E-U | F.Ea   | UiILL                             | Far East pirates, singing - heard 1536 - 1547  |
| DARC | 7000,0 | 1434 | 16 | 01 | J3E-U | F.Ea   | UiILL                             | Far East pirates, USB used   |
| DARC | 7000,2 | 1835 | 12 | 01 | J3E-U | S.As   | UiILL                             | 2 male persons in S.As voice   |
| DARC | 7001,0 | 1101 | 03 | 01 | J3E-L | I      | UiILL                             | Italian male person, LSB-operation!  |
| DARC | 7005,0 | 1640 | 25 | 01 | J3E-U |        | UiILL                             | unid male voices, other than on 7006   |
| DARC | 7006,0 | 1640 | 25 | 01 | J3E-U |        | UiILL                             | unid male voices, other than on 7005   |
| DARC | 7008,0 | 1628 | 01 | 01 | J3E-U |        | UiILL                             | Ar pirates with short roger bip  |
| DARC | 7008,0 | 1607 | 03 | 01 | J3E-U | Af     | UiILL                             | male voices, mentioning "Three Five", short  |

| CLUB | kHz     | UTC       | DD | MM | MODE  | ITU  | IDENT            | REMARKS  |
|------|---------|-----------|----|----|-------|------|------------------|--|
|      |         |           |    |    |       |      | "35"             | roger bip, also heard 29 December 2006 same frequency  |
| DARC | 7008,0  | vt        | 04 | 01 | J3E-U | Af   | UiILL            | male voices 1600 - 1630, short roger bip, also heard 29 December 2006 same frequency                                 |
| DARC | 7013,4  | 0828      | 30 | 01 | J3E-U | N.Af | UiILL            | 2 male voices, North Africa ?  |
| DARC | 7014,0  | 1835      | 12 | 01 | 1835  | Af   | UiILL            | 2 male persons in African dialect and French   |
| DARC | 7015,0  | 0731      | 17 | 01 | J3E-U | F    | UiILL            | French fishery (or lorry drivers?)   |
| DARC | 7022,0  | 0834      | 30 | 01 | 0841  | N.Af | UiILL            | 2 male voices, North Africa ?  |
| DARC | 7024,0  | 1959      | 31 | 01 | J3E-U | MRC  | UiILL            | Moroccan pirates   |
| DARC | 7030,0  | vt        | 12 | 01 | J3E-U | POR  | UiILL            | 2 male persons in Portuguese voice, heard 1656 - 1707  |
| DARC | 10101,0 | vt        | vd | 01 | J3E-U | MRC  | UiILL            | Moroccan fishery heard 07 10 at 1952, 1456   |
| DARC | 10107,0 | 2200      | 16 | 01 | J3E-U | ARG  | Orcada Base      | ARG Orcada Base, Spanish phonepatches <b>legal operation!</b>  |
| DARC | 10120,0 | 1720      | 06 | 01 | J3E-U | E    | UiILL            | Spanish fishery  |
| DARC | 10136,0 | vt        | vd | 01 | J3E-U | F    | Info             | French hams in SSB-USB, disrespect of IARU bandplans, heard 08 09 10 11 at 1035, 1040, 1051 - possibly no intruders! |
| DARC | 10142,0 | 0093<br>5 | 19 | 01 | J3E-L |      | UiILL            | unid pirates, using USB  |
| DARC | 10147,0 | 1430      | 09 | 01 | J3E-L | F.Ea | UiILL            | Far East pirates, LSB operation  |
| DARC | 10150,0 | 1534      | 26 | 01 | J3E-U | F.Ea | UiILL            | Far East pirates   |
| DARC | 13998,0 | 0918      | 19 | 01 | J3E-U | C.Af | UiILL            | French and Vernacular voice "affirmatif", "à toi", short roger bip   |
| DARC | 13998,6 | 1544      | 10 | 01 | J3E-U | MRC  | UiILL            | Moroccan fishery with splatters into ham band  |
| DARC | 13998,6 | vt        | 10 | 01 | J3E-U | MRC  | UiILL            | 2 male persons in Moroccan voice, heard 1240, 1518, 1602   |
| DARC | 14000,0 | 1507      | 01 | 01 | A3E   | ISR  | Mossad Israel    | female voice, encrypted messages   |
| DARC | 14000,0 | 1901      | 10 | 01 | A3E   | ISR  | Mossad Israel    | female voice repeating "Echo Zulu India"   |
| DARC | 14000,0 | 1645      | 17 | 01 | J3E-U | MRC  | UiILL            | Moroccan fishery   |
| DARC | 14000,0 | 1405      | 21 | 01 | J3E-U | E    | UiILL            | Spanish fishery  |
| DARC | 14000,0 | 1502      | 21 | 01 | A3E   | ISR  | Mossad Israel    | female voice repeating "Yankee Hotel Foxtrot Two" - see 3544!  |
| DARC | 14000,0 | 0815      | 31 | 01 | J3E-U | I    | UiILL            | 2 male persons in Italian accent, engine noise so poss. Fishery  |
| DARC | 14000,0 | 1709      | 31 | 01 | J3E-U |      | UiILL            | unid male voices   |
| DARC | 14000,0 | vt        | vd | 01 | J3E-U | I    | UiILL            | Italian fishery, Sicilian dialect - heard 25 26 30 31 at 0929, 0944, 1456, 1453 - loud                               |
| DARC | 14014,0 | 1243      | 30 | 01 | J3E-U |      | UiILL            | unid pirate net, same as on 14024 and/or 14000   |
| DARC | 14016,0 | vt        | 11 | 01 | J3E-U | MRC  | Moroccan Fishery | 3 male persons in Arabic and French "affirmatif", engine noise in background, heard 1630 - 1645 - reported to BNetzA |
| DARC | 14018,0 | 0815      | 14 | 01 | J3E-U | S.As | UiILL            | S.As male voice, long path 135 degs.   |
| DARC | 14024,0 | 1520      | 28 | 01 | J3E-U |      | UiILL            | unid pirate net, earlier on 14000  |
| DARC | 14030,0 | 1032      | 19 | 01 | J3E-U |      | UiILL            | unid male voices   |
| DARC | 14040,0 | 0802      | 31 | 01 | J3E-L |      | UiILL            | large net in Arabic voice, short roger beeps   |
| DARC | 14045,5 | 0844      | 16 | 01 | J3E-U | S.As | UiILL            | male to female in S.As voice   |
| DARC | 14065,0 | 0916      | 19 | 01 | J3E-U |      | UiILL            | unid male voice  |
| DARC | 14083,8 | 0817      | 30 | 01 | J3E-U | S.As | UiILL            | S.As male voices   |
| DARC | 14088,0 | vt        | 23 | 01 | J3E-U | MRC  | UiILL            | 2 male persons in Ar dialect, S9-signal - heard 1410 - 1431  |
| DARC | 14088,0 | vt        | 25 | 01 | J3E-U | MRC  | UiILL            | 2 male persons in Ar dialect, S9-signal - heard 0944 - 0953  |
| DARC | 14088,0 | 0821      | 26 | 01 | J3E-U | MRC  | UiILL            | 2 male persons in Ar dialect, engine noise so possibly fishery   |
| DARC | 14092,5 | 0800      | 16 | 01 | J3E-U | J    | UiILL            | 2 male Japanese voices, engine noise   |
| DARC | 14151,0 | vt        | 12 | 01 | J3E-U | MRC  | UiILL            | 2 male persons in Arabic dialect, diesel engine noise, heard 0848 - 0857   |
| DARC | 14286,0 | 0920      | 10 | 01 | J3E-U | GRC  | UiILL            | Greek male person, engine noise heard  |

| CLUB | kHz     | UTC  | DD  | MM | MODE  | ITU          | IDENT  | REMARKS  |  |
|------|---------|------|-----|----|-------|--------------|--|--|--|
| DARC | 14314,0 | 0628 | 30  | 01 | J3E-U | I/<br>C.Af   | UiILL  | Italian padres and nuns with C.Af  |  |
| DARC | 14320,0 | vt   | 13  | 01 | J3E-U | E            | UiILL<br>Juliet  | male to female person in Spanish, already heard in February 2006, female loud, male person barely audible - female says: "pasa te por la vevente", mentioning "Elche" - heard 1637 - 1645 - making sked for next day "hasta manana"                |  |
| DARC | 14355,6 | vt   | 14  | 01 | J3E-U | I/ Af        | 9UAS<br>IK2-<br>Wisky-<br>Rai-<br>Zulu<br>(IK2W<br>RZ) | 2 male voices, Italian language "passo", family traffic - heard 0901 - 0914, 1500 - 1515   |  |
| DARC | 21000,0 | 1033 | 04  | 01 | J3E-U | YEM          | Sudan<br>Emba<br>Yemen                                 | Arabic traffic, ident "80"   |  |
| DARC | 21021,5 | 0840 | 05  | 01 | J3E-U | E            | UiILL  | male person in Spanish voice   |  |
| DARC | 21070,6 | vt   | vd  | 01 | J3E-U | MRC          | UiILL  | Moroccan fishery heard 10 12 at 0950, 1154   |  |
| DARC | 21212,2 | vt   | 04  | 01 | J3E-U | MRC          | Moroccc<br>an<br>Fishery                               | 0813 - 0821, 2 male persons (one is "Jamal"), Vernacular and French, one man has a very shrieky voice, Moroccan coast, S9-signal - man says they can use every frequency they like - same persons already heard on 19 December 2006 same frequency |  |
| DARC | 21295,5 | 0939 | 05  | 01 | J3E-L | As           | UiILL  | pirate net in LSB, poss. In Indian Ocean   |  |
| DARC | 21322,0 | 0759 | 05  | 01 | J3E-U | MRC          | Moroccc<br>an<br>Fishery                               | 2 male persons, same as on 21212,2   |  |
| DARC | 21410,0 | vt   | 04  | 01 | J3E-U | E            | UiILL  | 2 male persons in Spanish voice, no amateurs! - heard 1013 - 1019  |  |
| DARC | 21415,0 | 0949 |     | 01 | J3E-U | E            | UiILL  | Spanish fisherman and his wife   |  |
| DARC | 28000,0 | h24  | dly | 01 | F3E   | RUS<br>/ CIS | UiILL  | taxi cabs 28000 - 29700  |  |
| DARC | 28085,0 | 1535 | 02  | 01 | A3E   | E            | UiILL  | Spanish CB-ers   |  |
| DARC | 28195,0 | vt   | vd  | 01 | F3E   | RUS<br>/ CIS | UiILL  | taxi cab daily 0915 - 1050   |  |

### DARC – Germany – Part 2 – DJ9KR (UiI) / DK2OM (Wolf)

| CLUB | kHz    | UTC  | DD | MM | MODE | ITU  | IDENT  | BD | SH  | REMARKS AND OBSERVATIONS   |
|------|--------|------|----|----|------|------|--|----|-----|--|
| DARC | 3506,8 | 1500 | 09 | 01 | G7B  | NATO | UiMUX  |    |     | NATO-LINK-11, is legal   |
| DARC | 3507,0 | 2008 | 06 | 01 | DPSK | D    | UiMUX  |    |     | ARCOTEL, 2k4, German Navy, is legal!   |
| DARC | 3530,0 | 1837 | 08 | 01 | J7D  | RUS  | UiMUX  |    |     | 12-tone system AT3004-D, is legal!   |
| DARC | 3543,5 | 2016 | 04 | 01 | F1B  | RUS  | UiPTR  | 81 | 250 | system 81 - is legal!  |
| DARC | 3549,0 | 1554 | 16 | 01 | J7D  | RUS  | UiMUX  |    |     | 12-tone system AT3004-D - is legal!  |
| DARC | 3550,0 | vt   | vd | 01 | A3E  | F    | Many<br>French<br>Amateur<br>Radio<br>Stations |    |     | Information to Intruder Watchers:<br>0600 - 0900: large net up to 20 stations in "AM" by French Iis Radio Amateurs - Activity is not conform to IARU Band Plan and a waste of Amateur Radio spectrum - often reported to IARU-MS as "Intruders" - Back to the "Fifties" as some of the |

| CLUB | kHz    | UTC  | DD | MM | MODE | ITU  | IDENT                         | BD  | SH  | REMARKS AND OBSERVATIONS  |
|------|--------|------|----|----|------|------|-------------------------------|-----|-----|---|
|      |        |      |    |    |      |      |                               |     |     | rigs are 60 years old? Why not use Spark Gap tx-ers agn?  |
| DARC | 3556,0 | 1930 | 06 | 01 | A1A  | CHN  | L9CC                          |     |     | roundslip "CP17 DE L9CC   |
| DARC | 3558,0 | 1828 | 09 | 01 | J7D  | RUS  | UiMUX                         |     |     | 12-tone system AT-3004-D, is legal  |
| DARC | 3572,0 | 2018 | 04 | 01 | QPSK | HOL  | UiMUX                         | 100 | 100 | Radio Navigation QPSK, location: The Netherlands - is legal!  |
| DARC | 3587,0 | 2040 | 26 | 01 | FSK8 | E    | UiMUX                         |     |     | system ALE, is Guardia Civil, selcalls TXX, TXX2, TYMA2 - is legal!   |
| DARC | 3588,0 | 2000 | 15 | 01 | J7D  | RUS  | UiMUX                         |     |     | 12-tone system AT3004-D - is legal!   |
| DARC | 3590,0 | 1755 | 12 | 01 | J7D  | RUS  | UiMUX                         |     |     | 12-tone system AT3004-D - is legal!   |
| DARC | 3611,5 | 1959 | 17 | 01 | G7B  | NATO | UiMUX                         |     |     | NATO-Link-11, 2k4, is legal!  |
| DARC | 3663,0 | 1530 | 13 | 01 | J7D  | RUS  | UiMUX                         |     |     | 12-tone system AT3004-D - is legal!   |
| DARC | 3756,0 | vt   | vd | 01 | A3E  | UKR  | channel marker "The Pip"      |     |     | MIL channel marker "the pip": found 5 tones each sideband, located Dnepropetrovsk - heard 25 28 - 31 at 1456 - 2010 |
| DARC | 7000,0 | 2209 | 13 | 01 | A3E  |      | UiBC                          |     |     | weak signal   |
| DARC | 7000,0 | 2016 | 07 | 01 | A3E  |      | UiBC                          |     |     | spurious from 7115  |
| DARC | 7003,0 | 0900 | 13 | 01 | FSK8 | M.Ea | UiMUX                         |     |     | system ALE, selcalls T17112, T3Z238 - is US-MIL M.Ea  |
| DARC | 7008,0 | 1030 | 24 | 01 | F1B  | RUS  | UiPTR                         |     |     | unid printer  |
| DARC | 7010,0 | 1506 | 01 | 01 | J7D  | RUS  | UiMUX                         |     |     | 12-tone system AT-3004-D, Russian military  |
| DARC | 7010,0 | 0649 | 24 | 01 | FSK8 | NATO | UiMUX                         |     |     | system ALE, selcalls RS0, RS008, CS002 - is NATO NC3A-Network   |
| DARC | 7015,0 | 0633 | 16 | 01 | J7D  | RUS  | UiMUX                         |     |     | 12-tone system AT3004-D   |
| DARC | 7016,0 | 2018 | 11 | 01 | G7B  |      | UiMUX                         |     |     | frequency hopper  |
| DARC | 7018,0 | 1504 | 01 | 01 | F1B  | RUS  | REA4                          |     |     | Airforce Moscow, reversals  |
| DARC | 7018,0 | 1440 | 11 | 01 | G7B  |      | UiMUX                         |     |     | frequency hopper  |
| DARC | 7020,0 | 1033 | 13 | 01 | FSK8 | NATO | UiMUX                         |     |     | system ALE, selcalls RS0, CS004 - is Nato Network South East Europe   |
| DARC | 7020,0 | 0828 | 30 | 01 | FSK8 |      | UiMUX                         |     |     | ALE heard   |
| DARC | 7020,0 | 1645 | 31 | 01 | A3E  |      | UiBC                          |     |     | unid BC   |
| DARC | 7022,5 | 0839 | 23 | 01 | FSK8 |      | UiMUX                         |     |     | ALE heard   |
| DARC | 7028,0 | 0728 | 17 | 01 | J7D  | RUS  | UiMUX                         |     |     | 12-tone system AT-3004-D  |
| DARC | 7029,0 | 1615 | 03 | 01 | A3E  | RUS  | Golos Rossiye (= V.o. Russia) |     |     | Russian songs   |
| DARC | 7029,0 | 1655 | 08 | 01 | A3E  | RUS  | Voice of Russia               |     |     | Russian language program, S9-signal, heard 08 15 18 29 at 1632 - 1655, supposed to be IM                            |
| DARC | 7030,0 | 1335 | 02 | 01 | F1B  | RUS  | UiPTR                         | 50  | 250 | unid printer, system ACF0, online encrypted   |
| DARC | 7030,0 | 0700 | 15 | 01 | F1B  | RUS  | UiPTR                         | 75  | 250 | unid printer, system ACF0, online encrypted   |
| DARC | 7031,5 | 1503 | 01 | 01 | J7D  | RUS  | UiMUX                         |     |     | 12-tone system AT-3004-D, Russian military  |
| DARC | 7032,0 | 1150 | 12 | 01 | J7D  | RUS  | UiMUX                         |     |     | 12-tone system AT-3004-   |

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|      |        |      |     |    |      |      |                       |     |     | D, Russian military   |
| DARC | 7033,0 | 2022 | 02  | 01 | FSK8 | M.Ea | UiMUX                 |     |     | ALE heard, selcalls PMR, VBR, SGS - is US-MIL M.Ea  |
| DARC | 7033,0 | vt   | 25  | 01 | J7D  | RUS  | UiMUX                 |     |     | 12-tone system AT-3004-D, Russian military  |
| DARC | 7035,0 | 1658 | 31  | 01 | FSK8 |      | UiMUX                 |     |     | ALE heard   |
| DARC | 7038,0 | 1509 | 25  | 01 | J7D  | RUS  | UiMUX                 |     |     | 12-tone system AT-3004-D, Russian military  |
| DARC | 7038,6 | vt   | dly | 01 | A1A  | RUS  | beacon P              |     |     | beacon Kaliningrad 0713 - 1535, all month   |
| DARC | 7038,7 | vt   | dly | 01 | A1A  | UKR  | beacon D              |     |     | beacon Sevastopol 0642 - 1535, all month  |
| DARC | 7039,0 | 1501 | 01  | 01 | A1A  | RUS  | beacon C              |     |     | beacon Moscow heard 0643 - 1535, all month  |
| DARC | 7039,0 | 0839 | 23  | 01 | A1A  | RUS  | beacon C              |     |     | beacon Moscow   |
| DARC | 7039,4 | 2115 | 01  | 01 | A1A  | RUS  | beacon M              |     |     | beacon Magadan, daily   |
| DARC | 7039,4 | 1522 | 10  | 01 | A1A  | RUS  | beacon M              |     |     | beacon Magadan, daily   |
| DARC | 7039,7 | 1502 | 01  | 01 | A1A  | I    | IZ3DVW / beacon       |     |     | by IARU uncoordinated and unwanted beacon - causing interference to other hams as S9-signal |
| DARC | 7041,7 | 1607 | 03  | 01 | A1A  | CHN  | L9CC                  |     |     | roundslip   |
| DARC | 7044,0 | 1505 | 01  | 01 | A1A  | RUS  | REA4                  |     |     | RUS Airforce, dotter  |
| DARC | 7044,0 | dly  | 12  | 01 | A1A  | RUS  | REA4                  |     |     | dotter, tx-er located Omsk  |
| DARC | 7050,8 | 2046 | 19  | 01 | A1A  | CHN  | L9CC                  |     |     | roundslip "CP17 DE L9CC   |
| DARC | 7054,9 | 2225 | 21  | 01 | A1A  | CHN  | L9CC                  |     |     | roundslip "CP17 DE L9CC   |
| DARC | 7055,4 | 2108 | 16  | 01 | A1A  | CHN  | L9CC                  |     |     | roundslip "CP17 DE L9CC   |
| DARC | 7058,5 | 1929 | 14  | 01 | A1A  | CHN  | L9CC                  |     |     | roundslip "CP17 DE L9CC   |
| DARC | 7059,8 | 1814 | 01  | 01 | A1A  | CHN  | L9CC                  |     |     | roundslip "CP17 DE L9CC   |
| DARC | 7060,6 | 2157 | 05  | 01 | A1A  | CHN  | L9CC                  |     |     | roundslip "CP17 DE L9CC   |
| DARC | 7060,6 | 2024 | 12  | 01 | A1A  | CHN  | L9CC                  |     |     | roundslip "CP17 DE L9CC   |
| DARC | 7060,6 | 2014 | 13  | 01 | A1A  | CHN  | L9CC                  |     |     | roundslip "CP17 DE L9CC   |
| DARC | 7064,0 | 1935 | 10  | 01 | A1A  | CHN  | L9CC                  |     |     | roundslip "CP17 DE L9CC   |
| DARC | 7064,7 | 2242 | 24  | 01 | A1A  | CHN  | L9CC                  |     |     | roundslip "CP17 DE L9CC   |
| DARC | 7065,0 | 2144 | 23  | 01 | A1A  | CHN  | L9CC                  |     |     | roundslip "CP17 DE L9CC   |
| DARC | 7065,6 | 1945 | 14  | 01 | A1A  | CHN  | L9CC                  |     |     | roundslip "CP17 DE L9CC   |
| DARC | 7069,9 | 2053 | 06  | 01 | A1A  | CHN  | L9CC                  |     |     | roundslip "CP17 DE L9CC   |
| DARC | 7070,0 | 2045 | 19  | 01 | G7B  |      | UiMUX                 |     |     | frequency hopper  |
| DARC | 7070,0 | H24  | dly | 01 | FSK8 | CHN  | UiMUX                 |     |     | ALE, selcalls 514, 288, 204 - is Chinese system PrC-PLA - daily H24                         |
| DARC | 7072,0 | 2014 | 13  | 01 | FSK8 |      | UiMUX                 |     |     | ALE heard   |
| DARC | 7087,0 | 2034 | 23  | 01 | G7B  |      | UiMUX                 |     |     | frequency hopper  |
| DARC | 7088,0 | 0905 | 13  | 01 | F1B  |      | UiPTR                 | 100 | 150 | unid printer  |
| DARC | 7090,0 | 0735 | 18  | 01 | J7D  | RUS  | UiMUX                 |     |     | 12 tone system AT3004-D   |
| DARC | 7090,0 | 1812 | 22  | 01 | G7B  | ?    | UiMUX                 |     |     | LINK-11, SLEW, serial   |
| DARC | 7090,0 | 1947 | 31  | 01 | G7B  |      | UiMUX                 |     |     | frequency hopper  |
| DARC | 7093,0 | 2000 | 15  | 01 | A3E  | BLR  | Radio Minsk           |     |     | harmful splatters from 7105 into ham band   |
| DARC | 7095,0 | 1530 | 01  | 01 | A3E  | BLR  | Radio Minsk           |     |     | spatters from 7105  |
| DARC | 7098,0 | 1032 | 13  | 01 | F1B  | RUS  | UiPTR                 | 75  | 250 | unid printer  |
| DARC | 7098,0 | 1412 | 15  | 01 | F1B  |      | UiPTR                 | 100 | 250 | reversals, idling   |
| DARC | 7100,0 | 1619 | 03  | 01 | A3E  | ERI  | Voice of Broad Masses |     |     | typical music, S9+10dB - "Voice of the Broad Masses VobM"                                   |
| DARC | 7100,0 | 1518 | 10  | 01 | A3E  | ERI  | VobM                  |     |     | typical music, S9+10dB  |
| DARC | 7100,0 | 1900 | 13  | 01 | A3E  | KOR  | Voice of Korea        |     |     | jingle, ann. in English "Republic of Korea", still on It 2015                               |



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|------|---------|------|-----|----|------|---------|--------------------------|---------|------|---|
| DARC | 7100,0  | 1652 | 25  | 01 | A3E  | ERI     | VobM                     |         |      | typical music, S9+10dB                                      |
| DARC | 7100,0  | 1758 | 31  | 01 | A3E  | ERI     | VobM                     |         |      | typical music, S9+10dB                                      |
| DARC | 7103,0  | 0730 | 17  | 01 | J7D  | RUS     | UiMUX                    |         |      | 12 tone system AT3004-D                                     |
| DARC | 7103,0  | 1652 | 25  | 01 | FSK8 |         | UiMUX                    |         |      | ALE heard   |
| DARC | 7130,0  | 1604 | 03  | 01 | A3E  | CHN     | Chinese Music Jammer     |         |      | Hainan Firedragon Music Jammer                              |
| DARC | 7130,0  | 1635 | 25  | 01 | A3E  | CHN     | Chinese Music Jammer     |         |      | Hainan Firedragon Music Jammer                              |
| DARC | 7185,0  | vt   | 31  | 01 | A3E  | CHN     | Chinese Music Jammer     |         |      | music jammer heard 1641 - 1756                              |
| DARC | 10103,0 | 1034 | 11  | 01 | G7B  |         | UiMUX                    |         |      | frequency hopper  |
| DARC | 10104,0 | 0903 | 05  | 01 | F1B  | RUS     | UiPTR                    | 81      | 250  | unid printer system 81 - permanent!                         |
| DARC | 10112,0 | 0955 | 01  | 01 | G7B  | TUR     | Turkish Military         |         |      | Stanag-4285, 2k4 D8PSK, permanent, legal                    |
| DARC | 10114,7 | 0727 |     | 01 | F1B  | RUS     | UiPTR                    | 96      | 1000 | unid printer system CIS-14, daily                           |
| DARC | 10114,8 | 0758 | 09  | 01 | F1B  | RUS     | UiPTR                    | 96      | 1000 | system CIS-14   |
| DARC | 10121,0 | 0844 | 25  | 01 | F1B  | RUS     | UiPTR                    | 75      | 250  | unid printer  |
| DARC | 10123,0 | 1101 | 15  | 01 | J7D  | RUS     | UiMUX                    |         |      | 12-tone system AT3004-D                                     |
| DARC | 10125,0 | 0933 | 19  | 01 | G7B  |         | UiMUX                    |         |      | frequency hopper  |
| DARC | 10130,6 | 0751 | 18  | 01 | F1B  | ALG     | UiMUX                    |         |      | SIEMENS-CHX-200   |
| DARC | 10133,8 | 1440 | 06  | 01 | FSK  |         | UiPTR                    | 46,2    | 170  | unid printer, ARQ-E   |
| DARC | 10134,0 | 1104 | 08  | 01 | FSK8 | M.Ea    | UiMUX                    |         |      | system ALE, selcalls TC2135, TC111, T45MED - is US-MIL M.Ea |
| DARC | 10140,0 | 1355 | 10  | 01 | P0N  | G / CYP | British OTH Radar Cyprus |         |      | chirping pulses 50-pulses-per-second                        |
| DARC | 10144,0 | 1535 | 26  | 01 | F1B  | RUS     | UiPTR                    | 50      | 500  | unid printer  |
| DARC | 10145,0 | 1753 | 15  | 01 | P0N  | G / CYP | British OTH Radar Cyprus |         |      | chirping pulses 25-pulses-per-second                        |
| DARC | 10148,0 | 1332 | 13  | 01 | F1B  | RUS     | UiPTR                    | 81      | 250  | unid printer system 81                                      |
| DARC | 10150,0 | 1546 | 26  | 01 | P0N  | G / CYP | British OTH Radar Cyprus |         |      | chirping pulses 50-pulses-per-second                        |
| DARC | 13995,0 | vt   | 12  | 01 | XXX  |         | UiMOD                    |         |      | humming signal heard 0839 - 0845 - different tone to 14000  |
| DARC | 14000,0 | 0847 |     | 01 | FSK8 | CHN     | UiMUX                    |         |      | system ALE, selcall "442"                                   |
| DARC | 14000,0 | 1500 | 01  | 01 | N0N  |         | UiCAR                    |         |      | carrier lasting long time                                   |
| DARC | 14000,0 | 1505 | 05  | 01 | FSK  | EGY     | UiMUX                    | 300     | 820  | Egyptian Telemetry, daily                                   |
| DARC | 14000,0 | 0842 | 12  | 01 | FSK8 |         | UiMUX                    |         |      | ALE heard   |
| DARC | 14000,0 | vt   | 12  | 01 | XXX  |         | UiMOD                    |         |      | humming signal heard 0839 - 0845, 0904                      |
| DARC | 14000,0 | 0845 | 18  | 01 | N0N  |         | UiCAR                    |         |      | carrier, QTE 135 degs.                                      |
| DARC | 14000,0 | vt   | vd  | 01 | G7D  |         | UiMUX                    |         |      | frequency hopper heard 13 17 at 1656, 1530                  |
| DARC | 14000,3 | 0657 | 10  | 01 | A3E  |         | UiBC                     |         |      | Intermodulation (IM)  |
| DARC | 14001,0 | 1314 | 06  | 01 | N0N  |         | UiCAR                    |         |      | 4 carriers found, QTE 130 degs.                             |
| DARC | 14001,0 | 1353 | 06  | 01 | PSM  |         | UiMUX                    |         |      | system CLOVER-2000, 8-tone                                  |
| DARC | 14001,5 | 0634 | 22  | 01 | A3E  |         | UiBC                     |         |      | Intermodulation (IM)  |
| DARC | 14002,0 | 0822 | 30  | 01 | FSK8 |         | UiMUX                    |         |      | ALE heard   |
| DARC | 14002,0 | vt   | dly | 01 | FSK4 | CHN     | UiMUX                    | 4 x 100 |      | PRC4 FSK, 4 x 100 Bd, daily heard                           |

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| DARC | 14003,0 | H24  | dly | 01 | N0N  |           | UiCAR                   |     |     | carrier lasting long time                              |
| DARC | 14004,5 | 1448 | 22  | 01 | FSK8 |           | UiMUX                   |     |     | unid CLOVER-2000, QTE 130 degs.                        |
| DARC | 14015,0 | 1544 | 22  | 01 | G7B  |           | UiMUX                   |     |     | frequency hopper                                       |
| DARC | 14016,0 | vt   | 30  | 01 | F1B  |           | UiPTR                   |     |     | unid printer heard 0751 - 0815                         |
| DARC | 14050,0 | 0841 | 10  | 01 | F1B  | RUS       | UiPTR                   | 50  | 250 | unid printer   |
| DARC | 14050,0 | vt   | 30  | 01 | G7B  |           | UiMUX                   |     |     | multiplex rushing noise heard 0751 - 0815              |
| DARC | 14057,0 | 1208 | 24  | 01 | G7B  |           | UiMUX                   |     |     | multiplex rushing noise                                |
| DARC | 14079,0 | 1696 | 11  | 01 | A3E  |           | UiBC                    |     |     | 2 px audible   |
| DARC | 14080,0 | 1604 | 14  | 01 | A3E  |           | UiBC                    |     |     | IM, 2 px audible, QTE 135 degs.                        |
| DARC | 14080,0 | 1610 | 21  | 01 | A3E  |           | UiBC                    |     |     | 2 px audible, S9-signal                                |
| DARC | 14080,0 | 1603 | 22  | 01 | A3E  |           | UiBC                    |     |     | S9-signal, QTE 270 grd.                                |
| DARC | 14080,0 | 1609 | 28  | 01 | A3E  |           | UiBC                    |     |     | intermodulation (IM), English program                  |
| DARC | 14080,0 | 1625 | 30  | 01 | A3E  |           | UiBC                    |     |     | 2 px audible, one is Russian, S9-signal, QTE 220 degs. |
| DARC | 14080,0 | vt   | vd  | 01 | A3E  |           | UiBC                    |     |     | IM heard 03 05 at 1654, 1628                           |
| DARC | 14083,0 | vt   | vd  | 01 | FSK  |           | UiMUX                   |     |     | activity heard 0816 - 0908                             |
| DARC | 14084,0 | 0814 | 26  | 01 | FSK  |           | UiMUX                   |     |     | rushing noise S9+20dB                                  |
| DARC | 14084,0 | 0820 | 26  | 01 | F1B  |           | UiPTR                   |     |     | unid printer   |
| DARC | 14084,0 | vt   | vd  | 01 | G7B  |           | UiMUX                   |     |     | 14 carriers each 200 Hz offset, heard 0816 - 0908      |
| DARC | 14084,0 | vt   | vd  | 01 | FSK  |           | UiMUX                   |     |     | activity heard 0827 - 0906                             |
| DARC | 14088,0 | 0826 | 26  | 01 | FSK8 |           | UiMUX                   |     |     | ALE heard  |
| DARC | 14103,0 | 0752 | 30  | 01 | FSK8 |           | UiMUX                   |     |     | ALE heard  |
| DARC | 14104,0 | 0848 | 05  | 01 | F1B  |           | UiPTR                   |     |     | unid printer   |
| DARC | 14104,0 | vt   | 30  | 01 | F1B  |           | UiPTR                   |     |     | unid printer heard 0751 - 0815                         |
| DARC | 14105,0 | 0749 | 31  | 01 | FSK8 |           | UiMUX                   |     |     | ALE heard  |
| DARC | 14110,0 | 0907 | 13  | 01 | XXX  |           | UiMOD                   |     |     | 2 tone hummer always repeating two tones               |
| DARC | 14120,0 | vt   | vd  | 01 | F1B  | RUS       | UiPTR                   | 81  | 250 | unid printer system 81, heard 01 04 at 0957, 0934      |
| DARC | 14122,0 | 0945 | 25  | 01 | G7B  |           | UiMUX                   |     |     | rushing noise S9+20dB                                  |
| DARC | 14146,7 | vt   | vd  | 01 | FSK  | EGY       | MFA Cairo               |     |     | Sitor-A, semi duplex, selcall "SSTO"                   |
| DARC | 14181,5 | vt   | vd  | 01 | FSK  | LBY       | North Korean Emba LIBYA | 600 | 600 | system DPRK-FSK600/600 - is North Korean Embassy Libya |
| DARC | 14192,0 | 0945 | 25  | 01 | F1B  |           | UiPTR                   |     |     | fast reversals   |
| DARC | 14218,0 | 0754 | 22  | 01 | F1B  |           | UiPTR                   |     |     | unid printer   |
| DARC | 14240,0 | 0843 | 10  | 01 | F1B  | RUS       | UiPTR                   | 75  | 250 | unid printer   |
| DARC | 14254,0 | 0725 | 17  | 01 | A3E  |           | UiBC                    |     |     | distorted program                                      |
| DARC | 14270,0 | 1436 | 19  | 01 | A3E  |           | UiBC                    |     |     | Ru px, S8 - 2f 7135                                    |
| DARC | 14290,0 | 0800 | 30  | 01 | FSK8 |           | UiMUX                   |     |     | ALE heard  |
| DARC | 14292,8 | 0738 | 04  | 01 | A1A  |           | UiCW                    |     |     | figures in 4-er groups                                 |
| DARC | 14310,0 | 1641 | 31  | 01 | A3E  | CHN / ALB | Radio China Intl.       |     |     | Ge px S8-9, 2f - tx-er is located in Albania           |
| DARC | 14327,0 | 0826 | 23  | 01 | A1A  |           | UiCW                    |     |     | dotter, 80 dots per minute                             |
| DARC | 14345,0 | 0841 | 30  | 01 | FSK8 |           | UiMUX                   |     |     | ALE heard  |
| DARC | 14349,0 | 1450 | 30  | 01 | P0N  | G / CYP   | British OTH Radar       |     |     | chirping pulses 50-pulses-per-second                   |
| DARC | 14350,0 | vt   | vd  | 01 | A3E  | ROU       | Radio Romania           |     |     | harmonic of 7175, heard 01 02 10 11 at 1227 - 1513     |
| DARC | 14370,0 | 1442 | 15  | 01 | P0N  | G /       | British                 |     |     | chirping pulses 70 kHz                                 |

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|------|---------|------|-----|----|------|---------|-------------------|----|-----|---|
|      |         |      |     |    |      | CYP     | OTH Radar         |    |     | spread S9+25dB - audible in ham band                      |
| DARC | 18070,0 | 0846 | 10  | 01 | P0N  | G / CYP | British OTH Radar |    |     | chirping pulses 50-pulses-per-second                      |
| DARC | 21000,0 | 0846 | 12  | 01 | N0N  |         | UiCAR             |    |     | carrier lasting long time                                 |
| DARC | 21000,0 | 1130 | 27  | 01 | P0N  | G / CYP | British OTH Radar |    |     | chirping pulses 25-pulses-per-second                      |
| DARC | 21002,2 | 1144 | dly | 01 | FSK  | YEM     | Sudan Emba Yemen  |    |     | Sudan Emba Yemen, Pactor-1, encrypted, daily              |
| DARC | 21126,4 | 0817 | 05  | 01 | F1B  |         | UiPTR             |    | 800 | fast reversals 800 Hz                                     |
| DARC | 21135,0 | 0846 | 18  | 01 | FSK8 | IRQ     | UiMUX             |    |     | system ALE, selcalls MOD, 8DI, SSB - is Iraq MOD          |
| DARC | 21135,2 | 1127 | 05  | 01 | FSK8 | IRQ     | UiMUX             |    |     | system ALE, selcalls 6043, 6047 - is Iraqi MIL Mossul     |
| DARC | 21170,0 | 0933 | 15  | 01 | P0N  | G / CYP | British OTH Radar |    |     | chirping pulses 70 kHz spread S9+25dB - 25-Hz-system      |
| DARC | 21270,0 | 1008 | 21  | 01 | P0N  | G / CYP | British OTH Radar |    |     | chirping pulses 25-pulses-per-second                      |
| DARC | 21310,0 | vt   | 06  | 01 | P0N  | G / CYP | British OTH Radar |    |     | chirping pulses 70 kHz spread S9+25dB, heard 1216 - 1218/ |
| DARC | 21380,0 | 1007 | 12  | 01 | P0N  | G / CYP | British OTH Radar |    |     | chirping pulses 25-pulses-per-second                      |
| DARC | 21450,0 | 1352 | 10  | 01 | JAM  |         | UiJAM             |    |     | splatters from jammer on SABS Riyadh on 21460             |

### MRASZ – Hungary - HA7PL (Laci)

| CLUB  | kHz     | UTC  | DD | MM | ITU | IDENT  | MODE | BD   | SH  | DETAILS                        |
|-------|---------|------|----|----|-----|--------|------|------|-----|--------------------------------|
| MRASZ | 7000,6  | 1708 | 12 | 01 | Ui  | Uicarr | N0N  |      |     | S9+10                          |
| MRASZ | 7035,0  | 1010 | 09 | 01 | Ui  | UiBC   | A3E  |      |     |                                |
| MRASZ | 7039,0  | 0629 | 03 | 01 | RUS | Beacon | A1A  |      |     |                                |
| MRASZ | 7049,0  | 0753 | 02 | 01 | RUS | REA4   | F1B  | 50   | 500 | Fast reversals                 |
| MRASZ | 7049,0  | 0757 | 02 | 01 | RUS | REA4   | F1A  |      |     | QSA 4 K ZZT 7923 K went off    |
| MRASZ | 7084,0  | 1400 | 14 | 01 | Ui  | UiMUX  | G7D  | 2400 |     | Frequency hopping              |
| MRASZ | 7090,0  | 1738 | 12 | 01 | RUS | UiBC   | A3E  |      |     | Russian spurious from 7115 kHz |
| MRASZ | 7100,0  | 1735 | 12 | 01 | Ui  | Uicarr | N0N  |      |     |                                |
| MRASZ | 14059,0 | 0855 | 24 | 01 | RUS | UiMUX  | G7D  | 1440 |     | AT-3004D                       |
| MRASZ | 14102,0 | 0845 | 30 | 01 | RUS | UiPTR  | F1B  | 50   | 250 |                                |
| MRASZ | 14120,0 | 0737 | 07 | 01 | RUS | UiMUX  | G7D  | 1440 |     | AT-3004D                       |
| MRASZ | 14120,0 | 1033 | 25 | 01 | RUS | UiMUX  | G7D  | 1440 |     | AT-3004D                       |
| MRASZ | 14127,0 | 0856 | 24 | 01 | Ui  | UiMUX  | G7D  | 2400 |     | Frequency hopping              |
| MRASZ | 14233,0 | 0857 | 24 | 01 | UI  | UiMUX  | G7D  | 2400 |     | Frequency hopping              |
| MRASZ | 14236,0 | 0858 | 24 | 01 | Ui  | UiMUX  | G7D  |      |     |                                |
| MRASZ | 14298,0 | 1033 | 25 | 01 | Ui  | UiMUX  | G7D  | 2400 |     | Frequency hopping              |

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

## SRAL – Finland – OH2BLU (Pekka)

| Society | QRG     | UTC       | DD    | MM | ITU | IDENT          | Mode  | BD | SH   | REMARKS                     |
|---------|---------|-----------|-------|----|-----|----------------|-------|----|------|-----------------------------|
| SRAL    | 7009,0  | 1440      | 1     | 1  |     | UiMUX          | F7    |    |      |                             |
| SRAL    | 7018,0  | 1130-2100 | dly   | 1  | RUS | REA4           | F1B/A | 50 | 1000 | mainly dots                 |
| SRAL    | 7023,0  | 1400      | 24    | 1  |     | UiVFT          | F1B   |    | 400  |                             |
| SRAL    | 7030,0  | 1520      | 2     | 1  |     | UiVFT          | F1B   |    | 400  |                             |
| SRAL    | 7030,0  | 1330-1500 | 15    | 1  |     | UiVFT          | F1B   |    | 400  |                             |
| SRAL    | 7032,0  | 1430-1600 | 1     | 1  |     | UiMUX          | F7    |    |      |                             |
| SRAL    | 7039,0  | h24       | dly   | 1  | RUS | C              | A1A   |    |      | Moscow                      |
| SRAL    | 7044,0  | 1130-1500 | 21-31 | 1  | RUS | REA4           | A1A   |    |      | sync. with 7018 kHz         |
| SRAL    | 7050,0  | 1005      | 6     | 1  |     | UiMR           | A1A   |    |      | 5BL                         |
| SRAL    | 7098,0  | 1030-1500 | 4, 13 | 1  |     | UiVFT          | F1B   |    |      |                             |
| SRAL    | 7100,0  | 1800-2100 | dly   | 1  | KRE | Voice of Korea | A3E   |    |      |                             |
| SRAL    | 7100,0  | *         | dly   | 1  | ERI | VoBME          | A3E   |    |      | 0330 to 0530 & 1300 to 1800 |
| SRAL    | 10145,0 | 1330-1800 | 2     | 1  | CYP | OTH            | P0N   |    |      | 40 kHz wide                 |

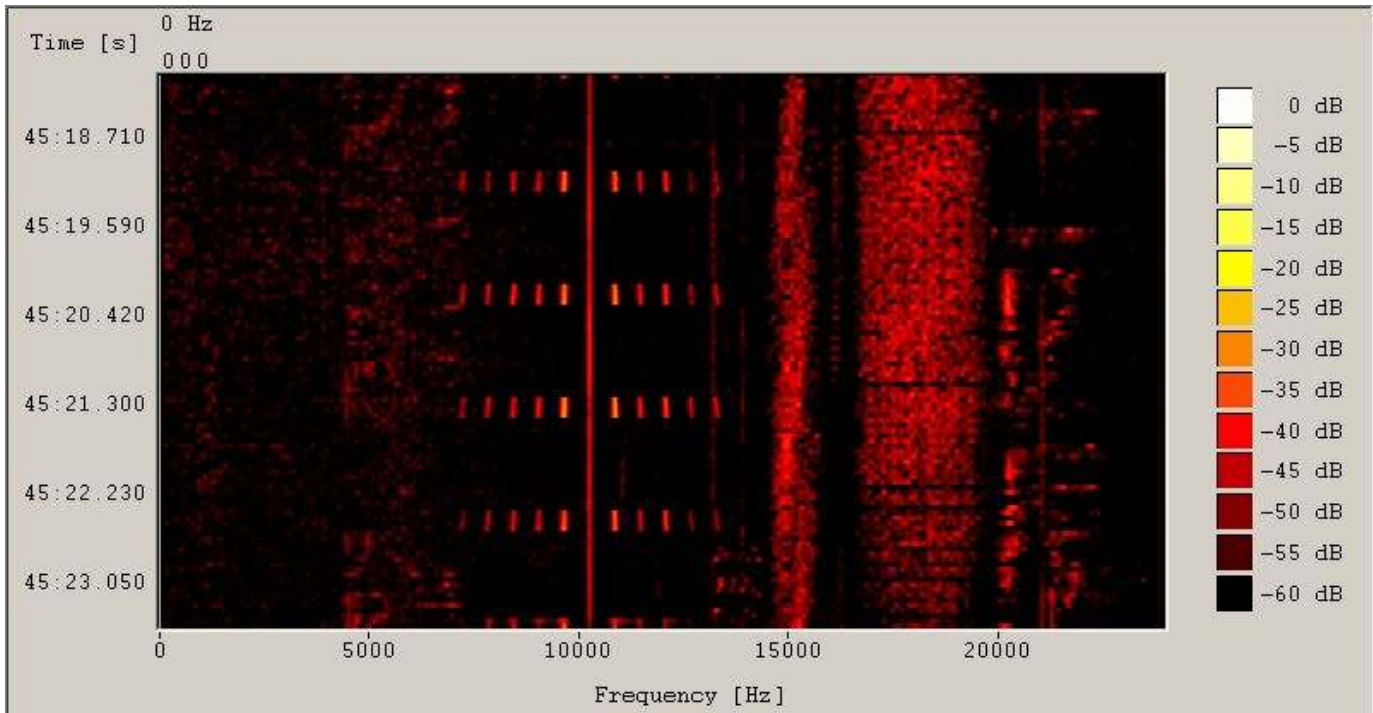
## Veron – Netherlands – Part 1- PA0GRU (Dick)

| SOC   | kHz     | UTC   | DD | MM | ITU | IDENT | Mode  | BD | SH | DETAILS                  |
|-------|---------|-------|----|----|-----|-------|-------|----|----|--------------------------|
| VERON | 3588,0  | 18.58 | 31 | 1  |     | UiPtr | F1B   |    |    | Ptr                      |
| VERON | 3593,7  | 18.55 | 31 | 1  | RUS | P     | A1A   |    |    | beacon P                 |
| VERON | 3595,0  | 19.05 | 8  | 1  | RUS | 326   | J3E-u |    |    | Mechanic voice 326 00000 |
| VERON | 3735,0  | 19.00 | 31 | 1  |     | UiPtr | F1B   |    |    | Ptr                      |
| VERON | 14050,0 | 10.25 | 8  | 1  |     | UiPtr | F1B   |    |    | Revs                     |

## Veron – Netherlands – Part 2 - PA0GRU (Dick)

| SOC   | kHz     | UTC   | DD | MM | ITU   | IDENT | Mode | BD | SH   | DETAILS                                  |
|-------|---------|-------|----|----|-------|-------|------|----|------|--|
| VERON | 7018,0  | 11.50 | ** | 1  | RUS   | REA4  | F1B  |    | 1000 | 18.12 utc, 9 days, dotter, Rus. Airforce |
| VERON | 7018,0  | 15.40 | 3  | 1  | RUS   | REA4  | F1B  |    | 1000 | Revs, badly mutilated                    |
| VERON | 7018,0  | 14.31 | 5  | 1  | RUS   | REA4  | F1B  |    | 1000 | Revs, badly mutilated                    |
| VERON | 7018,0  | 19.11 | 25 | 1  | RUS   | REA4  | F1B  |    | 500  | dotter                                   |
| VERON | 7031,2  | 14.42 | 7  | 1  | CHN   | L9CC  | A1A  |    |      | CP17 de L9CC V (roundslip)               |
| VERON | 7038,9  | 24H   | ** | 1  | RUS   | C     | A1A  |    |      | 20 days, beacon C loc. Moscow            |
| VERON | 7039,4  | 06.55 | ** | 1  | RUS   | M     | A1A  |    |      | 6 days, 17.55 utc, beacon M, Madagan     |
| VERON | 7041,5  | 14.57 | 3  | 1  | CHN   | L9CC  | A1A  |    |      | CP17 de L9CC V (roundslip)               |
| VERON | 7044,0  | 11.52 | ** | 1  | RUS   | REA4  | A1A  |    |      | 18.14 utc, 7 days, dotter, modulated     |
| VERON | 7050,8  | 17.37 | 19 | 1  | CHN   | L9CC  | A1A  |    |      | CP17 de L9CC V (roundslip)               |
| VERON | 7055,0  | 17.26 | 21 | 1  | CHN   | L9CC  | A1A  |    |      | CP17 de L9CC V (roundslip)               |
| VERON | 7056,0  | 07.36 | 2  | 1  | CIS   | M75V  | A1A  |    |      | to N5B5, 7LWI, 4TWK, etc, Proc           |
| VERON | 7056,0  | 08.02 | 3  | 1  | CIS   | M75V  | A1A  |    |      | to MPWR,4TWK,7LWI, N5B5,                 |
| VERON | 7056,0  | 08.12 | 4  | 1  | CIS   | M75V  | A1A  |    |      | to MPWR,etc, Proc                        |
| VERON | 7056,0  | 08.27 | 11 | 1  | CIS   | B94F  | A1A  |    |      | Proc, handsent morse                     |
| VERON | 7056,0  | 06.30 | 23 | 1  | CIS   | XP1U  | A1A  |    |      | 06.46 utc, to YWKJ,qt3 k/ 5BL&5F         |
| VERON | 7057,3  | 16.15 | 9  | 1  | CHN   | L9CC  | A1A  |    |      | CP17 de L9CC V (roundslip)               |
| VERON | 7058,5  | 16.47 | 15 | 1  | CHN   | L9CC  | A1A  |    |      | CP17 de L9CC V (roundslip)               |
| VERON | 7059,4  | 13.44 | 28 | 1  | CHN   | L9CC  | A1A  |    |      | CP17 de L9CC V (roundslip)               |
| VERON | 7059,7  | 17.52 | 1  | 1  | CHN   | L9CC  | A1A  |    |      | CP17 de L9CC V (roundslip)               |
| VERON | 7060,6  | 14.28 | 5  | 1  | CHN   | L9CC  | A1A  |    |      | CP17 de L9CC V (roundslip)               |
| VERON | 7060,6  | 13.48 | 12 | 1  | CHN   | L9CC  | A1A  |    |      | CP17 de L9CC V (roundslip)               |
| VERON | 7064,1  | 14.23 | 10 | 1  | CHN   | L9CC  | A1A  |    |      | CP17 de L9CC V (roundslip)               |
| VERON | 7065,1  | 17.26 | 21 | 1  | CHN   | L9CC  | A1A  |    |      | CP17 de L9CC V (roundslip)               |
| VERON | 7065,5  | 15.46 | 11 | 1  | CHN   | L9CC  | A1A  |    |      | CP17 de L9CC V (roundslip)               |
| VERON | 7065,5  | 17.24 | 14 | 1  | CHN   | L9CC  | A1A  |    |      | CP17 de L9CC V (roundslip)               |
| VERON | 7067,5  | 13.29 | 17 | 1  | CIS   | GHGO  | A1A  |    |      | to FOJN : Calls, Proc                    |
| VERON | 7069,9  | 21.28 | 6  | 1  | CHN   | L9CC  | A1A  |    |      | CP17 de L9CC V (roundslip)               |
| VERON | 7099,0  | 08.11 | 9  | 1  | CIS   | FKYB  | A1A  |    |      | Proc                                     |
| VERON | 7099,0  | 08.14 | 15 | 1  | CIS   | HYOU  | A1A  |    |      | Proc, 5BL, 08.46 utc                     |
| VERON | 10145,0 | 20.57 | 15 | 1  | G/Cyp | OHTR  | PON  |    |      | chirping pulses 30 Khz spread            |
| VERON | 14092,0 | 09.55 | 1  | 1  | RUS   | RGT77 | A1A  |    |      | RGT77 981=(5BL) K                        |
| VERON | 14092,0 | 10.50 | 5  | 1  | RUS   | RGT77 | A1A  |    |      | RGT77 219= (5BL) = K                     |
| VERON | 14092,0 | 06.45 | 9  | 1  | RUS   | RGT77 | A1A  |    |      | 5BL                                      |
| VERON | 14104,0 | 09.43 | 5  | 1  | CIS   | UiPtr | F1B  |    | 250  | Ptr                                      |
| VERON | 18075,0 | 09.08 | 19 | 1  | CHN   | UiBC  | A3E  |    |      | BC-station                               |
| VERON | 21150,0 | 11.50 | 3  | 1  | G/Cyp | OHTR  | PON  |    |      | chirping pulses 50 Khz spread            |
| VERON | 24930,0 | 12.25 | 5  | 1  |       | OHTR  | PON  |    |      | chirping pulses 50 Khz spread            |
| VERON | 28495,0 | 18.49 | 5  | 1  | Dutch | UiILL | A3E  |    |      | male                                     |

**“The PIP” on 3756 kHz – Ukraine Military channel marker transmitting continuously in AM with a bandwidth of 6.250 kHz. Each sideband contains 5 tones. The sonagram shows both sidebands and the carrier close to 10 000 Hz. (screenshot: DK2OM with Wavecom)**



## **IARUMS Region 1**

**Manual2005, Monitoring Template, WAV-files, Fishery Buoys on 10m, Latest Intruder News, Co-ordinator's Corner, Monthly Overview, Important Links, Contacts, Gallery, History of IARUMS Region 1, ITU Informations, the Story of Ron Roden's Life, Successful Actions and Soundfiles are available on:  
<http://www.iarums-r1.org>**

## **The monitoring team of IARU Region 1**

compiled and published by DK2OM

credits:

<http://www.wavecom.ch>