



# Monitoring System

DK2OM – Wolf Hadel  
Co-ordinator of IARUMS Region 1  
Editor of the Newsletter

DJ9KR – Uli Bihlmayer  
Vice Co-ordinator of IARUMS Region 1  
Editor of the German Overview

The monthly newsletter for Region 1

## April 2011

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



### Acknowledgements

++ ARI: DH7SA – Salvatore ++ ARSK: 5Z4NU - Ted ++ DARC: DJ9KR - Uli ++ EARA: SU1SA - Sayed  
++ IRTS: EI4GXB - Ger ++ KARS: 9K2RR – Faisal ++ MARL: 9H1M – Dominic ++ MRASZ: HA7PL - Laci ++  
++ NARS: 5N9AYM – Yusuf ++ OEVS: OE3DMA – Alex ++ PZK: SP3SUZ – Wladyslaw ++ RAL: OD5MV – Hani ++  
++ REP: CT4AN – Jose ++ RSGB: G4BOH - Chris ++ SARL: ZS1FCS - Fred ++  
++ SRAL: OH2BLU - Pekka ++ URE: EA5DY - Salvador ++ USKA: HB9CET - Peter ++ VERON: PA0GRU - Dick ++  
++ ZRS: S56ZDB – Darko ++ G3VZV – Graham (satellite intrusions) ++ TG9AJR – Juan (Co-ordinator Region 2) ++  
++ VK3MV – Peter (Co-ordinator Region 3) ++ DF8FE – Martin (Webmaster assistance) ++ DL8AAM (ALE) ++  
++ DJ7KG (BUOYS) ++ DF5SX (BC) ++ DARC (server support) ++ IARU Region 1 assistance ++  
++ PB2T – Hans (IARU R1 President) ++ G3PSM - Colin (EC-IARU-R1 ) ++ German PTT (BNetzA) ++

Part 1: News and infos

Part 2: Detailed reports from the national co-ordinators

# Part 1: News and Infos

## 1. HAMRADIO 2011

Dear friends of Amateur Radio,  
as every year there will be lectures about the activities of IARU Region 1 and DARC Monitoring System Intruder Watch  
It will take place on on the Friedrichshafen Ham Radio Expo site

\*\*\* Saturday, 25 June 2011

\*\*\* 10.00 - 11.30 local time

\*\*\* at Room Schweiz

\*\*\* in Hall A2

### LECTURES in Room "Schweiz"

#### 1. Welcome and Lecture

"We must safeguard our short wave spectrum. Your help is needed!" by Ulrich Bihlmayer DJ9KR, Vice Coordinator of IARU-MS Region 1 and Coordinator of DARC Monitoring System

#### 2. Guest Lecture: "USKA Monitoring System, an active and reliable partner of IARU-MS R1" by Peter Jost, HB9CET, Coordinator of USKA Monitoring System Intruder Watch

#### 3. Lecture

"Radar systems on our Short Wave ham bands", by Wolf Hadel DK2OM, Coordinator of IARU-MS Region 1 and Vice Coordinator of DARC-Monitoring System

### INOFFICIAL IARUMS Region 1 MEETING in Room "Bodensee"

At 12.00 local time there is an inofficial meeting for Intruder Monitoring Systems Coordinators and Officials of IARU and BNetzA. We invite you cordially to this meeting which will take place in "Room Bodensee" on the Ham Radio Expo site.

Best regards and 73 from

Wolfgang Hadel DK2OM - Coordinator IARUMS Region 1 - Vice Coordinator of DARC Monitoring System

Ulrich Bihlmayer DJ9KR / DL0IW - Vice Coordinator IARUMS Region 1 - Coordinator of DARC Monitoring System

## 2. HB9CET reports:

We had not thus much FSK signals than in the month before, but found much more on 20m, especially an increasing number of emissions with 75 baud 250 Shift. Remarkable was also the heavy increase of OTHR Over-The-Horizon-Radar transmissions, often found in the 20, 17, 15 and even 10m Band.

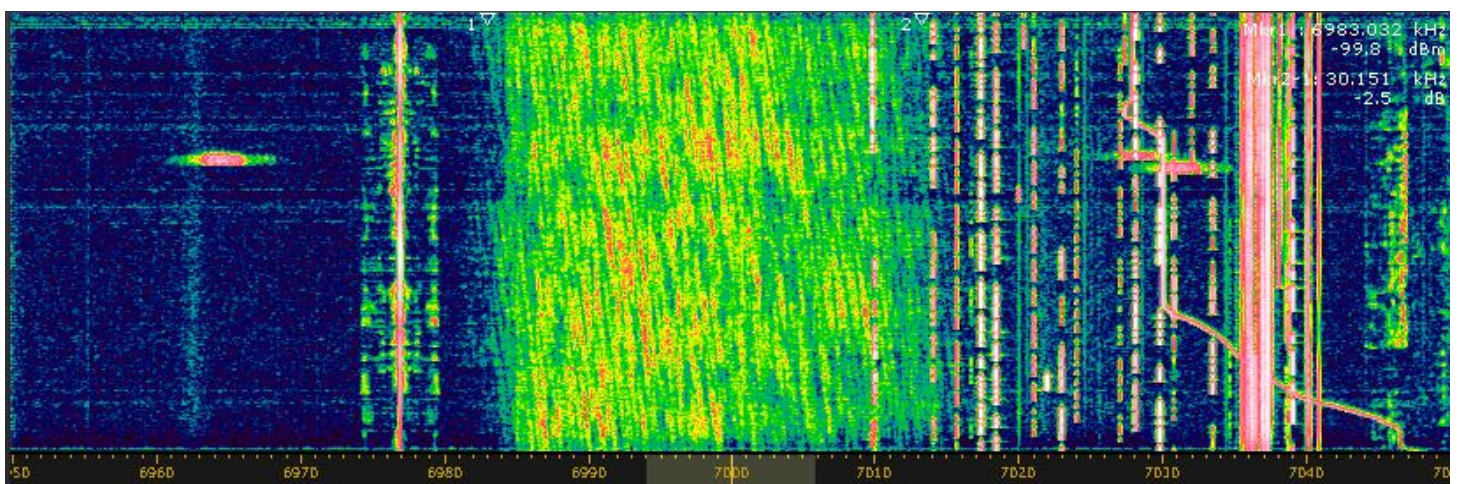
## 3. 28265 Church divine service from Ireland

**The Church divine service on 28265 (FM) is still active with illegal transmissions in the mornings!**

## 4. Broadband emission on 7000 kHz

On April 27<sup>th</sup> we found a broadband emission on 7000 kHz in the evening hours. Parameters: 6983 – 7013 kHz (30 kHz wide), sounding like white noise. **QTF: Israel**. Purpose unknown. The DX section of the 7 MHz-band was completely disturbed. We were not amused. [Observe the screenshot below!](#)

**Broadband signal 6983 – 7013 kHz on April 27<sup>th</sup> – screenshot: DK2OM with Perseus**



## 7. Homepage IARU Region 1

Homepage IARUMS Region 1 <http://www.iaru-r1.org/>

Homepage IARUMS Region 2 <http://www.intruder-watch.org/>

Homepage IARUMS Region 3 <http://www.iaru-r3.org/ms/>

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

DD = day \*\*\* MM = month \*\*\* dly = daily \*\*\* vt = various times \*\*\* vd = various days \*\*\* pps = pulses per second (radar systems) \*\*\* 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

### ARSK MONITORING OVERVIEW FOR APRIL 2011

Monitoring was again inhibited by frequent power outages which caused difficulty in creating records rather than receiving. Few intruders were heard, partly due to erratic propagation, but as far as Somalis are concerned it is thought they are shifting to satphones in preference to HF radio. Sweeps over the 40 meter band were very often completely blank during daylight hours. Khartoum broadcasts were still active on 7200 kHz but Ethiopian and Eritrean stations were not audible.

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

\*\*\*\*\*

### ARSK – Kenya – 5Z4NU (Ted)

| H'd by | kHz    | UTC  | DD  | MM | ITU  | Identity | MODE | Details                                       |
|--------|--------|------|-----|----|------|----------|------|---|
| ARSK   | 7032.0 | 1318 | 18  | 4  | SDN  | UiPHONE  | J3E  | Vernacular.                                   |
| ARSK   | 7035.0 | 1325 | 20  | 4  | SOM  | UiPHONE  | J3Eu | Somalis.                                      |
| ARSK   | 7040.0 | vt   | *   | 4  | DRC  | UiPHONE  | J3E  | Vernacular.*18,                               |
| ARSK   | 7062.0 | vt   | *   | 4  | SOM  | UiPHONE  | J3Eu | Somalis.*15,18,                               |
| ARSK   | 7066.0 | vt   | *   | 4  | SDN  | UiPHONE  | J3Eu | Vernacular. *13,18,                           |
| ARSK   | 7070.0 | 0701 | 26  | 4  | DRC  | UiPHONE  | J3E  | Vernacular.                                   |
| ARSK   | 7074.0 | 1306 | 6   | 4  | SDN  | UiPHONE  | J3E  | Vernacular.                                   |
| ARSK   | 7075.0 | vt   | *   | 4  | SOM  | UiPHONE  | J3Eu | Somalis.*13,17, 22,                           |
| ARSK   | 7155.0 | 1440 | 15  | 4  | ETH? | UiBC     | A3E  | Broadcast, Amharic?                           |
| ARSK   | 7165.0 | 0330 | 14  | 4  | ERI? | UiBC     | A3E  | Broadcast.                                    |
| ARSK   | 7175.0 | 0330 | *   | 4  | ERI? | UiBC     | A3E  | Broadcsast.*3,14,                             |
| ARSK   | 7200.0 | vt   | dly | 4  | SDN  | Khartoum | A3E  | Broadcast in Arabic, Khartoum.                |
| ARSK   | 21120  | 1235 | 25  | 4  | CYP  | OTHR     |      | OTH Radar, RAF Akrotiri, Cyprus. 80 khz wide. |

### DARC 1 – Germany – DJ9KR (Ui)

BC transmissions, IM products, harmonics = blue

| CLUB | kHz    | UTC  | DD | MM | ITU  | Ident           | MODE  | BD | SH | Remarks and Comments  |
|------|--------|------|----|----|------|-----------------|-------|----|----|---|
| DARC | 3500,0 | 2124 | 12 | 04 | HOL  | UiILL           | J3E-U |    |    | Dutch fishermen   |
| DARC | 3500,0 | 2128 | 12 | 04 | E    | UiILL           | J3E-U |    |    | Spanish fishermen, using vocoder CRY-2001                   |
| DARC | 3500,0 | 1752 | 18 | 04 | HOL  | UiILL           | J3E-U |    |    | Dutch fishermen   |
| DARC | 3500,0 | vt   | vd | 04 | E    | Spanish Fishery | J3E-U |    |    | Spanish fishery heard 05 10 26 29 at 1930, 2045, 1912, 0720 |
| DARC | 3501,6 | 1934 | 07 | 04 | CIS  | UiCLD           | A3E   |    |    | unstable carrier  |
| DARC | 3503,6 | 1950 | 06 | 04 | CIS  | UiCLD           | A3E   |    |    | unid clandestine, unstable carrier, broadcasting music      |
| DARC | 3508,8 | 2123 | 12 | 04 | CIS  | UiCLD           | A3E   |    |    | reproducing music, unstable carrier                         |
| DARC | 3518,0 | 2045 | 29 | 04 | CIS  | UiILL           | A3E   |    |    | CIS pirates, unstable carrier moving to 3526,5              |
| DARC | 3520,0 | 1936 | 15 | 04 | CIS  | UiILL           | J3E-U |    |    | female persons in Russian voice                             |
| DARC | 3520,0 | 0828 | 17 | 04 | N.Eu | UiILL           | J3E-U |    |    | Scandinavian fishermen                                      |
| DARC | 3525,0 | 1706 | 14 | 04 | G    | UiILL           | J3E-U |    |    | UK fishermen  |

| CLUB | kHz    | UTC  | DD | MM | ITU  | Ident               | MODE  | BD | SH | Remarks and Comments  |
|------|--------|------|----|----|------|---------------------|-------|----|----|---|
| DARC | 3526,5 | 2052 | 29 | 04 | CIS  | UiILL               | A3E   |    |    | CIS pirates, unstable carrier, from 3518                    |
| DARC | 3530,0 | 1940 | 11 | 04 | N.Eu | UiILL               | J3E-U |    |    | Scandinavian fishermen                                      |
| DARC | 3535,0 | 1937 | 05 | 04 | G    | UiILL               | J3E-U |    |    | UK fishery heard  |
| DARC | 3535,0 | 1923 | 29 | 04 | E    | UiILL               | J3E-U |    |    | Spanish fishery with vocoder CRY-2001                       |
| DARC | 3536,2 | 2200 | 14 | 04 | G    | UiILL               | J3E-U |    |    | UK fishermen  |
| DARC | 3539,0 | 1900 | 25 | 04 |      | UiILL               | J3E-U |    |    | unid pirates  |
| DARC | 3540,0 | 2000 | 13 | 04 | G    | UiILL               | J3E-U |    |    | UK fishermen, strong engine noise heard                     |
| DARC | 3540,0 | 1840 | 25 | 04 | G    | UiILL               | J3E-U |    |    | UK fishermen  |
| DARC | 3542,0 | 0648 | 02 | 04 | E    | UiILL               | J3E-U |    |    | Spanish male traffic  |
| DARC | 3550,0 | 0550 | 01 | 04 | F    | French Lis Amateurs | A3E   |    |    | AM in CW-section, not good and certainly no ham spirit!     |
| DARC | 3550,0 | 1952 | 11 | 04 | G    | UiILL               | J3E-U |    |    | UK fishermen  |
| DARC | 3555,3 | 2043 | 17 | 04 | G    | UiILL               | J3E-U |    |    | UK fishermen  |
| DARC | 3575,0 | 1951 | 27 | 04 |      | UiILL               | A3E   |    |    | pirate in AM, very unstable carrier                         |
| DARC | 3580,0 | 0730 | 29 | 04 |      | UiILL               | J3E-U |    |    | German male persons   |
| DARC | 3595,0 | vt   | vd | 04 | E    | UiILL               | J3E-U |    |    | Spanish fishery heard 03 09 at 2019, 1906                   |
| DARC | 7000,0 | 0637 | 02 | 04 |      | UiILL               | J3E-U |    |    | scrambled voice   |
| DARC | 7000,0 | 1844 | 06 | 04 | F    | UiILL               | J3E-U |    |    | pirates in French voice, SSB-USB                            |
| DARC | 7000,0 | 0604 | 07 | 04 |      | UiCAR               | N0N   |    |    | long lasting carrier  |
| DARC | 7000,0 | 2043 | 08 | 04 | G    | UiILL               | J3E-U |    |    | UK fishermen  |
| DARC | 7000,0 | 2131 | 09 | 04 | I    | UiILL               | J3E   |    |    | "Proba Proba", Italian male, using SSB-USB, later SSB-LSB   |
| DARC | 7000,0 | 2039 | 16 | 04 | I    | UiILL               | J3E-U |    |    | Italian male with "ola proba, uno due tre", also J3E-L      |
| DARC | 7008,0 | 2049 | 07 | 04 |      | UiPTR               | F1B   |    |    | unid printer  |
| DARC | 7009,0 | 2039 | 07 | 04 | RUS  | VOR                 | A3E   |    |    | Russian px  |
| DARC | 7009,0 | 2014 | 11 | 04 | RUS  | VOR                 | A3E   |    |    | Ru px   |
| DARC | 7009,0 | 2040 | 16 | 04 | RUS  | VOR                 | A3E   |    |    | Russian divine service, church bell ringing for a long time |
| DARC | 7009,0 | 2010 | 17 | 04 | RUS  | VOR                 | A3E   |    |    | Russian px  |
| DARC | 7009,0 | 2037 | 24 | 04 | RUS  | VOR                 | A3E   |    |    | divine service in Russian language                          |
| DARC | 7009,0 | 2054 | 28 | 04 | RUS  | VOR                 | A3E   |    |    | divine service S9+10dB                                      |
| DARC | 7009,0 | 2055 | 30 | 04 | RUS  | UiBC                | A3E   |    |    | Ru px, church bells ringing 2058 - 2100 - is BC-IM          |
| DARC | 7020,0 | vt   | 07 | 04 |      | UiBC                | A3E   |    |    | French px heard 0605 - 0746, weak signal                    |
| DARC | 7020,0 | 0722 | 12 | 04 |      | UiBC                | A3E   |    |    | weak BC heard   |
| DARC | 7029,0 | 1905 | 05 | 04 |      | UiMUX               | XXX   |    |    | mux rushing noise   |
| DARC | 7030,0 | 2020 | 04 | 04 |      | UiPTR               | F1B   |    |    |   |
| DARC | 7030,0 | 0625 | 07 | 04 | E    | Spanish Fishery     | J3E   |    |    | Spanish fishery, SSB-USB                                    |
| DARC | 7038,7 | 1505 | 29 | 04 | RUS  | Beacon D            | A1A   |    |    | beacon Sevastopol   |
| DARC | 7038,9 | 1505 | 29 | 04 | RUS  | Beacon S            | A1A   |    |    | beacon Murmansk   |
| DARC | 7039,0 | 2020 | 04 | 04 | RUS  | Beacon C            | A1A   |    |    | Moscow  |
| DARC | 7054,0 | 2049 | 07 | 04 |      | UiPTR               | F1B   |    |    | unid printer, fast reversals                                |
| DARC | 7100,0 | 2010 | 17 | 04 |      | UiBC                | A3E   |    |    | weak carrier  |
| DARC | 7105,0 | 2001 | 01 | 04 | TUN  | RTV Tunisia         | A3E   |    |    | Ar px   |
| DARC | 7105,0 | 2049 | 07 | 04 | TUN  | RTV Tunisia         | A3E   |    |    | Arabic px   |
| DARC | 7105,0 | vt   | 08 | 04 | CHN  | R.China Intl.       | A3E   |    |    | Chinese px, to jam Sound-of-Hope, 2100 - 2200               |
| DARC | 7105,0 | 2105 | 09 | 04 | CHN  | R. China            | A3E   |    |    | Chinese px heard  |
| DARC | 7105,0 | 2105 | 09 | 04 | TWN  | Sound of            | A3E   |    |    | Chinese px heard - report                                   |

| CLUB | kHz    | UTC  | DD | MM | ITU | Ident                  | MODE | BD | SH  | Remarks and Comments                         |
|------|--------|------|----|----|-----|------------------------|------|----|-----|--|
|      |        |      |    |    |     | Hope                   |      |    |     | DG9VH  |
| DARC | 7105,0 | vt   | 16 | 04 | TUN | RTV<br>Tunisia         | A3E  |    |     | heard 2050 - 2105 - is IM<br>7225 x 7345     |
| DARC | 7110,0 | 1727 | 07 | 04 | ERI | VOBME                  | A3E  |    |     | BC heard, found // 7155                      |
| DARC | 7110,0 | 1635 | 13 | 04 | ETH | ETH<br>Govt.<br>Jammer | JAM  |    |     | white noise jammer on<br>VOBME               |
| DARC | 7110,0 | 1528 | 14 | 04 | ETH | ETH<br>Govt.<br>Jammer | JAM  |    |     | white noise jammer on<br>VOBME               |
| DARC | 7110,0 | 1559 | 18 | 04 | ERI | VOBME                  | A3E  |    |     | px found // 7145, 7155                       |
| DARC | 7110,0 | 2024 | 18 | 04 |     | UiBC                   | A3E  |    |     | weak signal heard                            |
| DARC | 7110,0 | 1635 | 21 | 04 | ETH | ETH<br>Govt.<br>Jammer | JAM  |    |     | white noise jammer<br>S9+20dB, 40 kHz spread |
| DARC | 7110,0 | 1607 | 25 | 04 | ETH | ETH<br>Govt.<br>Jammer | JAM  |    |     | white noise jammer on<br>VOBME               |
| DARC | 7120,0 | 1713 | 01 | 04 | ERI | VOBME                  | A3E  |    |     | is active, found // 7155                     |
| DARC | 7122,0 | 0615 | 06 | 04 |     | UiPTR                  | F1B  |    |     | unid printer                                 |
| DARC | 7125,0 | 0648 | 02 | 04 | GUI | R.Conakr<br>y          | A3E  |    |     | is active                                    |
| DARC | 7125,0 | 0605 | 07 | 04 | GUI | R.Conakr<br>y          | A3E  |    |     | Holy Qur`an recitals                         |
| DARC | 7125,0 | 0614 | 08 | 04 |     | UiBC                   | A3E  |    |     | BC heard                                     |
| DARC | 7125,0 | 2020 | 27 | 04 |     | UiMUX                  | XXX  |    |     | roaring noise                                |
| DARC | 7128,0 | 0129 | 03 | 04 |     | UiMUX                  | XXX  |    |     | multiplex                                    |
| DARC | 7135,0 | 1603 | 06 | 04 |     | ETH<br>Govt.<br>Jammer | JAM  |    |     | white noise jammer on<br>VOBME               |
| DARC | 7135,0 | 1845 | 24 | 04 |     | UiCAR                  | N0N  |    |     | long lasting carrier<br>S9+20dB              |
| DARC | 7140,0 | 1857 | 24 | 04 | CVA | Vatican<br>Radio       | A3E  |    |     | s/on 1857, jingle at 1859,<br>IM?            |
| DARC | 7140,0 | 1920 | 27 | 04 |     | UiBC                   | A3E  |    |     | unid BC                                      |
| DARC | 7145,0 | 1559 | 18 | 04 | ERI | VOBME                  | A3E  |    |     | px found // 7110, 7155                       |
| DARC | 7155,0 | 1713 | 01 | 04 | ERI | VOBME                  | A3E  |    |     | is active, found // 7120                     |
| DARC | 7155,0 | 1609 | 03 | 04 | ETH | ETH<br>Govt.<br>Jammer | JAM  |    |     | white noise jammer on<br>VOBME               |
| DARC | 7155,0 | 1609 | 03 | 04 | ETH | ETH<br>Govt.<br>Jammer | JAM  |    |     | white noise jammer on<br>VOBME               |
| DARC | 7155,0 | 1727 | 07 | 04 | ERI | VOBME                  | A3E  |    |     | BC heard, found // 7110                      |
| DARC | 7155,0 | 1559 | 18 | 04 | ERI | VOBME                  | A3E  |    |     | px found // 7110, 7145                       |
| DARC | 7155,0 | 1635 | 21 | 04 | ETH | ETH<br>Govt.<br>Jammer | JAM  |    |     | white noise jammer<br>S9+20dB, 40 kHz spread |
| DARC | 7162,0 | 2017 | 04 | 04 |     | UiPTR                  | F1B  | 75 | 250 | printer located Moscow                       |
| DARC | 7165,0 | 1635 | 13 | 04 | ETH | ETH<br>Govt.<br>Jammer | JAM  |    |     | white noise jammer on<br>VOBME               |
| DARC | 7165,0 | 1635 | 13 | 04 | ERI | VOBME                  | A3E  |    |     | slightly audible under WN-<br>jammer         |
| DARC | 7165,0 | 1528 | 14 | 04 | ETH | ETH<br>Govt.<br>Jammer | JAM  |    |     | white noise jammer on<br>VOBME               |
| DARC | 7165,0 | 1607 | 25 | 04 | ETH | ETH<br>Govt.<br>Jammer | JAM  |    |     | white noise jammer on<br>VOBME               |
| DARC | 7170,0 | 2045 | 26 | 04 |     | UiBC                   | A3E  |    |     | En px, S9-signal, unstable<br>signal         |
| DARC | 7175,0 | 1713 | 01 | 04 | ERI | VOBME                  | A3E  |    |     | weak signal                                  |
| DARC | 7175,0 | 1603 | 06 | 04 |     | ETH<br>Govt.<br>Jammer | JAM  |    |     | white noise jammer on<br>VOBME               |
| DARC | 7175,0 | 1528 | 14 | 04 | ETH | ETH                    | JAM  |    |     | white noise jammer on                        |

| CLUB | kHz     | UTC  | DD  | MM | ITU  | Ident          | MODE  | BD | SH | Remarks and Comments   |
|------|---------|------|-----|----|------|----------------|-------|----|----|--|
|      |         |      |     |    |      | Govt. Jammer   |       |    |    | VOBME  |
| DARC | 7175,0  | 1528 | 14  | 04 | ERI  | VOBME          | A3E   |    |    | faintly heard under wn-jammer from ETH   |
| DARC | 7185,0  | 0614 | 08  | 04 |      | UiBC           | A3E   |    |    | BC heard   |
| DARC | 7185,0  | 1838 | 24  | 04 |      | UiBC           | A3E   |    |    | 2 px heard, one is English voice   |
| DARC | 7189,7  | 0129 | 03  | 04 | CLN  | SLBC Sri Lanka | A3E   |    |    | typical music, S8  |
| DARC | 7189,7  | 0113 | 07  | 04 | CLN  | SLBC Sri Lanka | A3E   |    |    | Indian film music, S9  |
| DARC | 7189,7  | 0044 | 25  | 04 | CLN  | SLBC Sri Lanka | A3E   |    |    | S9-signal, typical sitar and tabla music   |
| DARC | 7190,0  | 1838 | 24  | 04 |      | UiBC           | A3E   |    |    | unid bC  |
| DARC | 7190,0  | 1858 | 25  | 04 |      | UiCAR          | N0N   |    |    | long lasting carrier S9+15dB   |
| DARC | 7200,0  | 2055 | 08  | 04 | SDN  | R.Omdurman     | A3E   |    |    | Ar px, s/off at 2059   |
| DARC | 7200,0  | vt   | 08  | 04 | SDN  | R.Omdurman     | A3E   |    |    | Ar px heard 2055 - 2059  |
| DARC | 7200,0  | vt   | 18  | 04 |      | UiCAR          | N0N   |    |    | carrier S9+30 2024 - 2035  |
| DARC | 7200,0  | vt   | 24  | 04 | SDN  | R.Omdurman     | A3E   |    |    | Ar px S9+30dB, weak modulation, heard 1838 - 2040                                    |
| DARC | 7200,0  | 1905 | 25  | 04 | SDN  | R.Omdurman     | A3E   |    |    | Ar px heard S9+30dB, very weak modulation  |
| DARC | 7200,0  | 1920 | 27  | 04 | SDN  | R.Omdurman     | A3E   |    |    | S9+20dB, weak modulation   |
| DARC | 7200,0  | vt   | 27  | 04 | M.Ea | UiOTH Radar    | P0N   |    |    | white noise jammer S9+20dB, 30 kHz spread, 6983 - 7013                               |
| DARC | 7200,0  | vt   | dly | 04 | SDN  | R.Omdurman     | A3E   |    |    | ILG-B10 says - sked: 0245 - 2300, 2300 - 0230 - Arabic program                       |
| DARC | 7205,0  | 2022 | 11  | 04 | F    | R.France Inter | A3E   |    |    | French px "Couleur Tropical", African music, harmful splatters into ham band S9+40dB |
| DARC | 7205,0  | 2008 | 17  | 04 | F    | RFI            | A3E   |    |    | harmful splatters down till 7190   |
| DARC | 7205,0  | 2030 | 25  | 04 | F    | RFI            | A3E   |    |    | French px, splatters down till 7190  |
| DARC | 10100,9 | 0604 | 14  | 04 | E    | UiILL          | J3E-U |    |    | 2 m in Galician voice, Spanish fishyery  |
| DARC | 10105,0 | 1920 | 08  | 04 | MRC  | UiILL          | J3E-U |    |    | Moroccan fishermen, from 10107 after activity of ham radio stn                       |
| DARC | 10107,0 | 1912 | 08  | 04 | MRC  | UiILL          | J3E-U |    |    | Moroccan fishermen, to 10105 after activity of ham radio stn                         |
| DARC | 10110,0 | vt   | dly | 04 | TUR  | TRT Ankara     | A3E   |    |    | IM-occurs: 1723 - 1823, QRGs involved 9460 kHz (Turkish) and 9785 kHz (German)       |
| DARC | 10110,0 | vt   | 06  | 04 | TUR  | TRT Ankara     | A3E   |    |    | px in Turkish voice, heard 1855 - 1910   |
| DARC | 10110,0 | vt   | 08  | 04 | TUR  | TRT Ankara     | A3E   |    |    | Tu mx, Tu voice heard 1848 - 1900  |
| DARC | 10110,0 | vt   | 09  | 04 | TUR  | TRT Ankara     | A3E   |    |    | Turkish music, heard 1848 - 1900   |
| DARC | 10110,0 | 1758 | 10  | 04 |      | UiILL          | J3E-U |    |    | 2 male persons, unid voice   |
| DARC | 10110,0 | vt   | 10  | 04 | TUR  | TRT Ankara     | A3E   |    |    | heard 1820 - 1920  |
| DARC | 10110,0 | vt   | 19  | 04 | TUR  | TRT Ankara     | A3E   |    |    | heard s/on 1824 - s/off 2120, English px, S9+10dB - 9785 s/on 1824                   |
| DARC | 10110,0 | vt   | vd  | 04 | TUR  | TRT Ankara     | A3E   |    |    | heard 1830-1848 06 - 16, 11 reports  |

| CLUB | kHz     | UTC  | DD | MM | ITU  | Ident              | MODE      | BD  | SH  | Remarks and Comments  |
|------|---------|------|----|----|------|--------------------|-----------|-----|-----|---|
| DARC | 10110,5 | 2130 | 11 | 04 | MRC  | UiILL              | J3E-U     |     |     | Moroccan fishermen  |
| DARC | 10120,0 | 2025 | 08 | 04 | E    | UiILL              | J3E-U     |     |     | Spanish fishermen, to 10130, later back to 10120 after activity of ham radio station  |
| DARC | 10125,0 | 0801 | 07 | 04 |      | UiILL              | J3E-U     |     |     | 2 male persons in Arabic voice, S8 - "hamdullillah"                                   |
| DARC | 10125,0 | 1903 | 25 | 04 | LBY  | UiILL              | J3E-U     |     |     | Libyan Jamahiriya, Arabic voice   |
| DARC | 10130,0 | 2019 | 08 | 04 | E    | UiILL              | J3E-U     |     |     | Spanish fishermen, to 10130, later back to 10120 after activity of ham radio station  |
| DARC | 10130,2 | 2033 | 16 | 04 |      | UiILL              | J3E-U     |     |     | unid male voice, too weak to find out language  |
| DARC | 10130,5 | 2137 | 13 | 04 | MRC  | UiILL              | J3E-U     |     |     | Moroccan fishermen  |
| DARC | 10135,0 | 1702 | 20 | 04 | E    | UiILL              | J3E-U     |     |     | 2 Spanish male persons, fishery?  |
| DARC | 10135,5 | 1905 | 05 | 04 | E    | UiILL              | J3E-U     |     |     | 2 male persons in Spanish voice   |
| DARC | 10140,9 | vt   | 14 | 04 |      | UiILL              | J3E-U     |     |     | transmitting music 0605 - 0610 - QTE 210 degs.  |
| DARC | 10142,0 | 1639 | 24 | 04 |      | UiILL              | J3E-U     |     |     | 2 unid male voices  |
| DARC | 10145,0 | 1633 | 01 | 04 |      | UiILL              | J3E-U     |     |     | unid male voices  |
| DARC | 10145,0 | vt   | 11 | 04 |      | UiOTH Radar        | P0N       |     |     | chirping and rattling pulses heard 2014 - 2031  |
| DARC | 10150,0 | 0759 | 07 | 04 | TUR  | UiSTN              | J3E-U     |     |     | Turkish male person "Yildiz Radio Control"  |
| DARC | 10150,0 | 2136 | 09 | 04 | E    | UiSTN              | J3E-U     |     |     | 2 male persons in Spanish, poss. Fishery - is not in ham band as SSB-USB, just info!  |
| DARC | 10150,0 | 1450 | 26 | 04 | E    | UiILL              | J3E-U     |     |     | Spanish fishermen, splatters down   |
| DARC | 14000,0 | 1330 | 17 | 04 | F.Ea | UiILL              | J3E-U     |     |     | pirates from Far East   |
| DARC | 14000,0 | vt   | 24 | 04 | RUS  | Baltic Sea Radio   | J3E-L     |     |     | ann: "This is Baltic Sea Radio", song "satisfaction", QTE Tuebingen 330 degs, S9+20dB |
| DARC | 14000,0 | vt   | vd | 04 | F.Ea | UiILL              | J3E-U     |     |     | Far East pirate net, male and female persons, heard 03 04 at 1500, 1430               |
| DARC | 14000,0 | vt   | vd | 04 | RUS  | Baltic Sea Radio ? | J3E-L     |     |     | music, no carrier, no USB, heard 20 22 at 1605, 1532 - QTE 060 degs.                  |
| DARC | 14005,0 | 1033 | 01 | 04 |      | UiMUX              | XXX       |     |     | mux rushing noise   |
| DARC | 14008,0 | 1138 | 25 | 04 | RUS  | UiPTR              | N0N / F1B | 100 | 250 | carrier, later printer, located Moscow  |
| DARC | 14008,0 | 0627 | 26 | 04 | RUS  | UiCAR              | N0N       | 100 | 250 | carrier S9+35dB, later printer, location Moscow                                       |
| DARC | 14008,0 | 0630 | 26 | 04 | RUS  | UiPTR              | F1B       | 50  | 250 | printer s/on at 0630, located Moscow  |
| DARC | 14020,0 | 1457 | 22 | 04 | INS  | UiILL              | J3E-U     |     |     | pirates   |
| DARC | 14021,0 | 0800 | 25 | 04 | E    | UiILL              | J3E-U     |     |     | poss. Spanish voice - report DL7VT  |
| DARC | 14028,0 | 0749 | 07 | 04 | RUS  | UiPTR              | F1B       | 75  | 150 | printer located Penza   |
| DARC | 14030,0 | 0635 | 25 | 04 |      | UiMUX              | XXX       |     |     | audio tone buzzer   |
| DARC | 14033,0 | 1830 | 30 | 03 | F.Ea | UiILL              | J3E-U     |     |     | pirate net from Far East, QTE 060 degs.   |
| DARC | 14059,0 | 0753 | 07 | 04 |      | UiPTR              | F1B       |     |     | unid printer  |
| DARC | 14075,0 | vt   | 24 | 04 | ROU  | R.Romania Intl.    | A3E       |     |     | Ge px, ann. 1242, "Timisoara" often mentioned - heard 1228 - 1240                     |
| DARC | 14160,0 | 1636 | 14 | 04 |      | UiPTR              | F1B       |     |     | fast reversals heard  |
| DARC | 14180,0 | 1223 | 24 | 04 |      | UiPTR              | F1B       |     |     | unid printer, S9, QTE Tuebingen 090 degs.   |

| CLUB | kHz     | UTC  | DD  | MM | ITU       | Ident                   | MODE  | BD  | SH  | Remarks and Comments   |
|------|---------|------|-----|----|-----------|-------------------------|-------|-----|-----|--|
| DARC | 14210,0 | vt   | dly | 04 | TUR       | TRT<br>Ankara           | A3E   |     |     | IM occurs: 1723 - 1823,<br>QRGs involved 9460 kHz<br>(Turkish) and 11835<br>(German) |
| DARC | 14210,0 | 1730 | 08  | 04 | TUR       | TRT<br>Ankara           | A3E   |     |     | soccer game S9+35dB,<br>Turkish reporter   |
| DARC | 14210,0 | 1821 | 17  | 04 | TUR       | V.o.Turk<br>ey          | A3E   |     |     | songs in Turkish voice,<br>S9+10dB   |
| DARC | 14210,0 | 1739 | 25  | 04 | TUR       | TRT<br>Ankara           | A3E   |     |     | soccer game S9+25dB, is<br>IM  |
| DARC | 14210,0 | 1733 | 26  | 04 | TUR       | TRT                     | A3E   |     |     | S9+10dB-signal   |
| DARC | 14262,7 | vt   | 27  | 04 | MRC       | UiILL                   | J3E-U |     |     | 2 male persons, Moroccan<br>Arabic   |
| DARC | 14295,1 | 1437 | 04  | 04 | TJK       | R.Tajik                 | A3E   |     |     | daily heard, is 3rd harmonic<br>of 4765  |
| DARC | 14295,1 | 0732 | 08  | 04 | TJK       | R.Tajik                 | A3E   |     |     | is audible   |
| DARC | 18101,0 | 0714 | 08  | 04 | CIS       | UiILL                   | J3E-U |     |     | male person with encrypted<br>msgs in Russian voice                                  |
| DARC | 20999,0 | 1649 | 18  | 04 | E         | UiILL                   | J3E-U |     |     | Spanish male and female<br>splattering up  |
| DARC | 21000,0 | 0720 | 08  | 04 |           | UiILL                   | J3E-U |     |     | scrambled voice  |
| DARC | 21000,0 | 1032 | 12  | 04 |           | UiILL                   | J3E-U |     |     | weak male voice  |
| DARC | 21000,0 | 1425 | 13  | 04 | SDN       | MFA<br>Sudan            | J3E-U |     |     | MFA Sudan calling SDN<br>embassy in Yemen, starting<br>by whistling                  |
| DARC | 21000,5 | vt   | vd  | 04 | F.Ea      | UiILL                   | J3E-U |     |     | pirates from Far East heard<br>16 - 20 at 1550, 1330, 1110,<br>1446                  |
| DARC | 21000,6 | vt   | vd  | 04 | F.Ea      | UiILL                   | J3E-U |     |     | Far East pirate net, heard 08<br>30 at 1535, 1321                                    |
| DARC | 21001,5 | vt   | 01  | 04 | RUS       | UiPTR                   | F1B   | 100 | 150 | Vocoder YAKHTA,<br>location Yekaterinburg,<br>heard 0815 - 1712                      |
| DARC | 21010,0 | vt   | 10  | 04 | TUR       | Turkish<br>OTH<br>Radar | P0N   |     |     | heard 0550 - 1605 without<br>interruption, 60 kHz spread,<br>very harmful            |
| DARC | 21010,0 | 1017 | 14  | 04 |           | UiOTHR                  | P0N   |     |     | S9+20dB  |
| DARC | 21070,0 | 0854 | 05  | 04 |           | UiOTHR                  | P0N   |     |     | S9+30dB, 50 kHz spread   |
| DARC | 21070,0 | vt   | 14  | 04 |           | UiOTH<br>Radar          | P0N   |     |     | heard 0944 - 0959,<br>SS9+20dB, QTE 120 degs.<br>found // 21130                      |
| DARC | 21100,0 | 0615 | 01  | 04 |           | UiOTHR                  | P0N   |     |     | chirping pulses S9+30dB  |
| DARC | 21110,0 | 1055 | 28  | 04 |           | UiOTH<br>Radar          | P0N   |     |     | chirping and rattling pulses<br>S9+30dB  |
| DARC | 21111,1 | 1352 | 12  | 04 | S.As      | UiILL                   | J3E-U |     |     | 2 male persons, S.As voice,<br>fishery? - QTE Tuebingen<br>090 degs.                 |
| DARC | 21115,5 | 0642 | 26  | 04 | F.Ea      | UiILL                   | J3E-U |     |     | pirates  |
| DARC | 21120,0 | vt   | 25  | 04 | G/<br>CYP | Cyprus<br>OTHR          | P0N   |     |     | 12,5 pps, heard 1410 - 1604<br>s/off, S9+30dB  |
| DARC | 21125,0 | 1023 | 01  | 04 |           | EY8ZF                   | J3E-U |     |     | female calling "CQ 15"   |
| DARC | 21130,0 | vt   | 14  | 04 |           | UiOTH<br>Radar          | P0N   |     |     | heard 0944 - 0959 s/off,<br>S9+20dB, QTE 120 degs.<br>found // 21070                 |
| DARC | 21139,5 | 1708 | 01  | 04 |           | UiILL                   | J3E-U |     |     | unid male voices   |
| DARC | 21140,0 | 0625 | 27  | 04 |           | UiOTHR                  | P0N   |     |     | s/on at 0625   |
| DARC | 21185,0 | 1500 | 16  | 04 |           | UiOTH<br>Radar          | P0N   |     |     | chirping and rattling pulses<br>S9+30dB, 30 kHz spread -<br>report DF1SF             |
| DARC | 21205,0 | 1448 | 21  | 04 | ARS       | SABS<br>Riyadh          | A3E   |     |     | IM, S5-signal, found //<br>21505 and 21705, heard<br>1220 - 1444                     |
| DARC | 21212,1 | 1405 | 12  | 04 | S.As      | UiILL                   | J3E-U |     |     | 2 male persons, S.As voice,<br>fishery? - QTE Tuebingen<br>090 degs.                 |
| DARC | 21250,0 | 1031 | 12  | 04 |           | UiOTHR                  | P0N   |     |     | OTH-Radar  |
| DARC | 21250,0 | vt   | 14  | 04 |           | UiOTH                   | P0N   |     |     | heard 1204 - 1230, another   |



| CLUB        | kHz     | UTC  | DD | MM | ITU  | Ident        | MODE  | BD | SH   | Remarks and Comments   |
|-------------|---------|------|----|----|------|--------------|-------|----|------|--|
|             |         |      |    |    |      | Radar        |       |    |      | OTH found at the same time on 21420, however with a higher puls rate |
| <b>DARC</b> | 21261,0 | 1140 | 25 | 04 |      | UiPTR        | F1B   |    |      | is 2f de 10580,5   |
| <b>DARC</b> | 21295,0 | 0636 | 13 | 04 |      | UiOTH Radar  | P0N   |    |      | shorts bursts starting with a "bip" in the beginning, S9-signal      |
| <b>DARC</b> | 21295,0 | 1140 | 25 | 04 | ARS  | SABS Riyadh  | A3E   |    |      | IM, S4-signal  |
| <b>DARC</b> | 21295,1 | 1058 | 28 | 04 | TJK  | R.Tajikistan | A3E   |    |      | S7-signal  |
| <b>DARC</b> | 21303,0 | 1427 | 21 | 04 | S.As | UiILL        | J3E-L |    |      | S.As male voice, INS?  |
| <b>DARC</b> | 21305,0 | vt   | 20 | 04 | ARS  | SABS Riyadh  | A3E   |    |      | Ar px, S7, heard 1353 - 1400, found // 21505                         |
| <b>DARC</b> | 21305,0 | vt   | 21 | 04 | ARS  | SABS Riyadh  | A3E   |    |      | IM, S6-signal, found // 21505 and 21705, heard 1220 - 1444           |
| <b>DARC</b> | 21305,0 | 1359 | 30 | 04 | ARS  | SABS Riyadh  | A3E   |    |      | Ar px found // 21505   |
| <b>DARC</b> | 21310,0 | 0914 | 28 | 04 |      | UiOTH Radar  | P0N   |    |      | short bursts of an OTH Radar   |
| <b>DARC</b> | 21350,0 | 1214 | 24 | 04 |      | UiOTH Radar  | P0N   |    |      | S9+40dB  |
| <b>DARC</b> | 21370,0 | vt   | 08 | 04 |      | UiOTH Radar  | P0N   |    |      | OTH-Radar different to 21390, heard 0722 - 0724 s/off                |
| <b>DARC</b> | 21390,0 | vt   | 08 | 04 |      | UiOTH Radar  | P0N   |    |      | chirping pulses S9+30dB, 50 kHz spread, heard 0617 - 0630            |
| <b>DARC</b> | 21390,0 | vt   | 21 | 04 |      | UiOTH Radar  | P0N   |    |      | S9+35dB-signal, heard 1019 - 1040                                    |
| <b>DARC</b> | 21400,0 | 0826 | 01 | 04 |      | UiOTH Radar  | P0N   |    |      | chirping pulses S9+30dB  |
| <b>DARC</b> | 21401,0 | 0726 | 14 | 04 | RUS  | UiPTR        | F1B   |    | 2000 | 2f 10700,5   |
| <b>DARC</b> | 21405,0 | 1448 | 21 | 04 | ARS  | SABS Riyadh  | A3E   |    |      | IM, S5-signal, found // 21505 and 21705, heard 1220 - 1444           |
| <b>DARC</b> | 21410,5 | vt   | 01 | 04 | RUS  | UiPTR        | F1B   |    | 2000 | unid printer heard 0614 - 0815, is 2f                                |
| <b>DARC</b> | 21410,5 | 0634 | 13 | 04 | RUS  | UiPTR        | F1B   |    | 2000 | 2f 10705   |
| <b>DARC</b> | 21410,5 | 0709 | 26 | 04 | RUS  | UiPTR        | F1B   |    | 2000 | unid printer, is 2nd harmonic  |
| <b>DARC</b> | 21415,0 | 1220 | 21 | 04 |      | UiOTH Radar  | P0N   |    |      | S9+20dB, found // 21460  |
| <b>DARC</b> | 21420,0 | vt   | 14 | 04 |      | UiOTH Radar  | P0N   |    |      | heard 1204 - 1225 s/off,   |
| <b>DARC</b> | 21438,0 | 1218 | 24 | 04 |      | UiCW         | A1A   |    |      | 5-figure traffic   |
| <b>DARC</b> | 21440,0 | 0920 | 01 | 04 |      | UiPTR        | F1B   |    |      | 2f   |
| <b>DARC</b> | 21453,4 | 1448 | 21 | 04 | ARS  | SABS Riyadh  | A3E   |    |      | IM, S6-signal, found // 21505 and 21705, heard 1220 - 1444           |
| <b>DARC</b> | 21460,0 | 1220 | 21 | 04 |      | UiOTH Radar  | P0N   |    |      | S9+40dB, reaching into ham band, found // 21415                      |
| <b>DARC</b> | 28000,0 | 0832 | 24 | 04 | CIS  | Taxi         | F3E   |    |      | Russian voice, female at base station, mal in taxi                   |
| <b>DARC</b> | 28005,6 | 1824 | 07 | 04 | B    | UiILL        | A3E   |    |      | CB-ers   |
| <b>DARC</b> | 28014,4 | 1824 | 07 | 04 | B    | UiILL        | A3E   |    |      | CB-ers   |
| <b>DARC</b> | 28045,0 | 1825 | 07 | 04 | B    | UiILL        | A3E   |    |      | CB-ers in AM   |
| <b>DARC</b> | 28055,0 | 0936 | 12 | 04 | CIS  | Taxi         | F3E   |    |      | Russian voice, female at base station, mal in taxi                   |
| <b>DARC</b> | 28064,2 | 1854 | 17 | 04 | B    | UiILL        | J3E-U |    |      | CB-like station in Port. voice, male persons                         |
| <b>DARC</b> | 28065,0 | 1810 | 03 | 04 | B    | UiILL        | A3E   |    |      | pirates  |
| <b>DARC</b> | 28065,0 | 1827 | 07 | 04 | B    | UiILL        | A3E   |    |      | CB-ers in AM   |
| <b>DARC</b> | 28075,0 | 1826 | 07 | 04 | B    | UiILL        | A3E   |    |      | CB-ers in AM   |
| <b>DARC</b> | 28075,0 | 0735 | 19 | 04 | CIS  | Taxi         | F3E   |    |      | S9-signal, male to female  |
| <b>DARC</b> | 28085,0 | 1801 | 07 | 04 | E    | UiILL        | A3E   |    |      | Spanish CB-ers   |

| <b>CLUB</b> | <b>kHz</b>     | <b>UTC</b>  | <b>DD</b>  | <b>MM</b> | <b>ITU</b> | <b>Ident</b> | <b>MODE</b> | <b>BD</b> | <b>SH</b> | <b>Remarks and Comments</b>                              |
|-------------|----------------|-------------|------------|-----------|------------|--------------|-------------|-----------|-----------|--|
| <b>DARC</b> | 28085,0        | 0941        | 12         | 04        | CIS        | Taxi         | F3E         |           |           | Russian voice, female at base station, mal in taxi       |
| <b>DARC</b> | 28095,0        | 0937        | 12         | 04        | CIS        | Taxi         | F3E         |           |           | Russian voice, female at base station, mal in taxi       |
| <b>DARC</b> | 28105,0        | 1745        | 03         | 04        | B          | UiILL        | A3E         |           |           | pirates  |
| <b>DARC</b> | 28105,0        | 0750        | 19         | 04        | CIS        | Taxi         | F3E         |           |           | S9-signal, male to female                                |
| <b>DARC</b> | 28115,0        | 1824        | 17         | 04        | B          | UiILL        | A3E         |           |           | CB-like station in Port. voice, roger beep, male persons |
| <b>DARC</b> | 28120,0        | 0941        | 12         | 04        | CIS        | Taxi         | F3E         |           |           | Russian voice, female at base station, mal in taxi       |
| <b>DARC</b> | 28135,0        | 0942        | 12         | 04        | CIS        | Taxi         | F3E         |           |           | Russian voice, female at base station, mal in taxi       |
| <b>DARC</b> | 28135,0        | 0740        | 19         | 04        | CIS        | Taxi         | F3E         |           |           | S9-signal, male to female                                |
| <b>DARC</b> | 28154,0        | 1747        | 03         | 04        | B          | UiILL        | A3E         |           |           | pirates  |
| <b>DARC</b> | 28155,0        | 1824        | 17         | 04        | B          | UiILL        | A3E         |           |           | CB-like station in Port. voice, roger beep, male persons |
| <b>DARC</b> | 28165,0        | 0642        | 25         | 04        |            | UiILL        | A3E         |           |           | unid voices  |
| <b>DARC</b> | 28175,0        | 1244        | 03         | 04        | B          | UiILL        | A3E         |           |           | pirates  |
| <b>DARC</b> | 28185,0        | 1827        | 03         | 04        | B          | UiILL        | A3E         |           |           | pirates  |
| <b>DARC</b> | 28185,0        | 0940        | 12         | 04        | CIS        | Taxi         | F3E         |           |           | Russian voice, female at base station, mal in taxi       |
| <b>DARC</b> | 28185,0        | 1823        | 17         | 04        | B          | UiILL        | A3E         |           |           | CB-like station in Port. voice, roger beep, male persons |
| <b>DARC</b> | 28195,0        | 0740        | 19         | 04        | CIS        | Taxi         | F3E         |           |           | S9-signal, male to female                                |
| <b>DARC</b> | 28205,0        | 1624        | 17         | 04        | B          | UiILL        | A3E         |           |           | CB-like station in Port. voice, roger beep, male persons |
| <b>DARC</b> | 28215,0        | 0938        | 12         | 04        | CIS        | Taxi         | F3E         |           |           | Russian voice, female at base station, mal in taxi       |
| <b>DARC</b> | 28225,0        | 0740        | 19         | 04        | CIS        | Taxi         | F3E         |           |           | S9-signal, male to female                                |
| <b>DARC</b> | 28255,0        | vt          | 14         | 04        |            | UiOTH Radar  | P0N         |           |           | unid OTH heard 1533 - 1546 s/off, QTE 135 degs.          |
| <b>DARC</b> | <b>28265,0</b> | <b>0900</b> | <b>dly</b> | <b>04</b> | <b>IRL</b> |              | <b>F3E</b>  |           |           | <b>Church divine service</b>                             |
| <b>DARC</b> | 28275,0        | 1624        | 17         | 04        | B          | UiILL        | A3E         |           |           | CB-like station in Port. voice, roger beep, male persons |
| <b>DARC</b> | 28305,0        | 0750        | 19         | 04        | CIS        | Taxi         | F3E         |           |           | S9-signal, male to female                                |
| <b>DARC</b> | 28305,0        | 0722        | 20         | 04        | CIS        | Taxi         | F3E         |           |           | S9-signal, male to female                                |
| <b>DARC</b> | 28306,0        | 1858        | 17         | 04        | B          | UiILL        | A3E         |           |           | CB-like station in Port. voice, roger beep, male persons |
| <b>DARC</b> | 28314,3        | 1858        | 17         | 04        | B          | UiILL        | A3E         |           |           | CB-like station in Port. voice, roger beep, male persons |
| <b>DARC</b> | 28365,0        | 0740        | 19         | 04        | CIS        | Taxi         | F3E         |           |           | S9-signal, male to female                                |
| <b>DARC</b> | 28375,0        | 0740        | 19         | 04        | CIS        | Taxi         | F3E         |           |           | S9-signal, male to female                                |
| <b>DARC</b> | 28436,0        | 0750        | 19         | 04        | CIS        | Taxi         | F3E         |           |           | S9-signal, male to female                                |
| <b>DARC</b> | 28450,0        | 0942        | 12         | 04        | CIS        | Taxi         | F3E         |           |           | Russian voice, female at base station, mal in taxi       |
| <b>DARC</b> | 28460,5        | 1742        | 03         | 04        | B          | UiILL        | J3E-U       |           |           | pirates  |
| <b>DARC</b> | 28555,0        | 0750        | 19         | 04        | CIS        | Taxi         | F3E         |           |           | S9-signal, male to female                                |
| <b>DARC</b> | 28755,0        | 0740        | 19         | 04        | CIS        | Taxi         | F3E         |           |           | S9-signal, male to female                                |
| <b>DARC</b> | 28815,0        | 0722        | 20         | 04        | CIS        | Taxi         | F3E         |           |           | S9-signal, male to female                                |
| <b>DARC</b> | 28825,0        | 0939        | 12         | 04        | CIS        | Taxi         | F3E         |           |           | Russian voice, female at base station, mal in taxi       |
| <b>DARC</b> | 28865,0        | 0726        | 20         | 04        | CIS        | Taxi         | F3E         |           |           | S9-signal, male to female                                |

**DARC 2 – 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)**

| <b>DARC</b> | <b>kHz</b> | <b>UTC</b> | <b>DD</b> | <b>MM</b> | <b>ITU</b> | <b>IDENT</b> | <b>MODE</b> | <b>BD</b> | <b>SH/SP</b> | <b>DETAILS</b>   |
|-------------|------------|------------|-----------|-----------|------------|--------------|-------------|-----------|--------------|--|
| <b>DARC</b> | 1812,0     | vt         | vd        | 04        | POL        |              | A3E         |           |              | Polish “PIP” – 10 tones – North-Poland – Baltic coast - POL Navy ?                                   |
| <b>DARC</b> | 1876,8     | ady        | dly       | 04        | G          |              | PSK8        | 2400      | 2400         | Stanag4285 - 1200 bps long - Scotland  |
| <b>DARC</b> | 1896,5     | ady        | dly       | 04        | D          |              | PSK8        | 2400      | 2400         | Stanag4285 - 600 bps long - German Navy  |
| <b>DARC</b> | 3500,0     | vt         | dly       | 04        | TUR        | no ITU       | FSK8        | 125       | 1750         | ALE, “2015” “2016” “1020”- Turkish Red Crescent - legal  |
| <b>DARC</b> | 3502,0     | 1946       | 29        | 04        | UKR        |              | F1B         | 50        | 250          | area of Lvov   |
| <b>DARC</b> | 3503,5     | vt         | dly       | 04        | G          | no ITU       | FSK8        | 125       | 1750         | ALE – “XSS” “XPU” – British MIL Tascomm  |
| <b>DARC</b> | 3510,0     | vt         | dly       | 04        | ALG        |              | FSK8        | 125       | 1750         | ALE, “JE30” “PT30”   |
| <b>DARC</b> | 3514,0     | 2051       | 29        | 04        |            |              |             |           |              | frequency hopper   |
| <b>DARC</b> | 3523,0     | vt         | dly       | 04        |            |              | FSK8        | 125       | 1750         | ALE, “505”   |
| <b>DARC</b> | 3527,0     | 1930       | 07        | 04        | RUS        |              | F1B         | 50        | 200          | Severomorsk - daily  |
| <b>DARC</b> | 3530,0     | 1950       | 11        | 04        |            |              | FSK8        | 125       | 1750         | Thales 3000  |
| <b>DARC</b> | 3533,0     | vt         | dly       | 04        | E          | no ITU       | FSK8        | 125       | 1750         | ALE, “TZSC2” “TWBZ1” - Spanish Guardia Civil   |
| <b>DARC</b> | 3539,5     | 2116       | 13        | 04        | RUS        |              | PSK2        | 120       | 2600         | AT3004D - submode idling - Murmansk  |
| <b>DARC</b> | 3540,0     | 1945       | 28        | 04        | UKR        |              | PSK2        | 120       | 2600         | AT3004D - Sevastopol   |
| <b>DARC</b> | 3545,0     | vt         | dly       | 04        | ALG        |              | FSK8        | 125       | 1750         | ALE, “FL49” “FL57” “PT50” - ALG MIL + voice traffic USB and scrambler                                |
| <b>DARC</b> | 3545,0     | 1941       | 05        | 04        |            |              | PSK2        | 120       | 2600         | AT3004D  |
| <b>DARC</b> | 3553,8     | ady        | dly       | 04        | TUR        |              | PSK8        | 2400      | 2400         | Stanag4285 – TUR MIL - Ankara  |
| <b>DARC</b> | 3554,0     | 1935       | 07        | 04        | RUS        |              | F1B         | 100       | 250          | Moscow   |
| <b>DARC</b> | 3556,5     | 1854       | 12        | 04        | UKR        |              | PSK4        | 120       | 2600         | AT3104D - north of Lvov  |
| <b>DARC</b> | 3558,0     | vt         | dly       | 04        |            |              | FSK8        | 125       | 1750         | ALE, “102” “206”   |
| <b>DARC</b> | 3577,0     | ady        | dly       | 04        | I          | IZ3DVW       | A1A         |           |              | IZ3DVW – beacon not coordinated with IARU  |
| <b>DARC</b> | 3581,0     | 1922       | 06        | 04        | RUS        |              | PSK2        | 120       | 2600         | AT3004D - submode idling and modem idling – PSK2 traffic - Far-East-Russia                           |
| <b>DARC</b> | 3585,0     | 1700       | dly       | 04        | TWN        | HLL          | F1C         |           |              | 120 rpm, IOC 576, Wxfax - legal!   |
| <b>DARC</b> | 3590,0     | vt         | dly       | 04        | PAK        | no ITU       | FSK8        | 125       | 1750         | ALE, “KW” “BABUR” “KHA” “KHAIBAR” “BADR” “NASR”  |
| <b>DARC</b> | 3591,5     | vt         | vd        | 04        | F          |              | OFDM        | 44.4      | 1800         | OFDM27 - area of Lille / North France  |
| <b>DARC</b> | 3595,0     | vt         | dly       | 04        | D          | no ITU       | FSK8        | 125       | 1750         | ALE, „ZLST“ „ZPRI“ „ZSHO“ „ZBOR“ „ZEMD“ „ZHEL“ „ZKNI“ „ZBOR“ „BPLEZS“ German customs – North-Germany |
| <b>DARC</b> | 3596,0     | vt         | dly       | 04        | HRV        | 9A0ALE       | FSK8        | 125       | 1750         | Croatian emergency ALE-net --- for info!   |
| <b>DARC</b> | 3603,0     | vt         | vd        | 04        | D          | DA0EC        | PSK8        | 2000      | 2000         | RFSM 8000 – amateur emergency net - Berlin - legal operation - just for info!!!                      |
| <b>DARC</b> | 3603,0     | 2124       | 24        | 04        | ALG?       | no ITU       | FSK8        | 125       | 1750         | ALE, “PT01JL94” “JL05JL94”   |
| <b>DARC</b> | 3608,0     | vt         | dly       | 04        | RUS        |              | F1B         | 50        | 200          | Kaliningrad  |
| <b>DARC</b> | 3611,5     | vt         | dly       | 04        | D          |              | PSK8        | 200       | 500          | German APRS Net in Robust Packet - just for info!  |
| <b>DARC</b> | 3611,8     | 1942       | 12        | 04        | I          |              | PSK4        | 75        | 2300         | Link11-CLEW - Naples   |
| <b>DARC</b> | 3617,0     | vt         | dly       | 04        | HRV        | 9A5EX        | FSK8        | 125       | 1750         | ALE, “9A5EX1P” – HAM-ALE   |

| DARC | kHz     | UTC  | DD  | MM | ITU | IDENT  | MODE | BD   | SH/SP | DETAILS   |
|------|---------|------|-----|----|-----|--------|------|------|-------|---|
|      |         |      |     |    |     |        |      |      |       | - just for info   |
| DARC | 3622,5  | 2100 | 24  | 04 | J   | JMH    | F1C  |      |       | Tokyo Meteo – 120 rpm – IOC576 – daily, legal!!!                              |
| DARC | 3756,0  | ady  | dly | 04 | UKR |        | A3E  |      |       | UKR – pip – 10 tones  |
| DARC | 3782,0  | ady  | dly | 04 | POR | CTP    | F1B  | 75   | 850   | POR Navy headquarter Lisbon   |
| DARC | 3799,0  | 1934 | 26  | 04 |     |        |      |      |       | frequency hopper  |
| DARC | 7000,0  | vt   | dly | 04 | IRQ | no ITU | FSK8 | 125  | 1750  | ALE, “MEDOPS” “BMROPS” “LNGKNF” “EAGLE” “HFCFSR” “R23747” “R24594” US MIL     |
| DARC | 7000,0  | 1920 | 27  | 04 | ISR |        | unid |      | 30k   | unid broadband signal 6983 – 7013 kHz – like white noise                      |
| DARC | 7000,9  | 1841 | 20  | 04 | RUS |        | OFDM | 35.6 | 1800  | OFDM60 - Machatschkala  |
| DARC | 7001,7  | 1017 | 04  | 04 | G   |        | F1B  | 75   | 850   | async. - Plymouth   |
| DARC | 7012,0  | 2120 | 18  | 04 | RUS |        | F1B  | 75   | 250   | south-east of Moscow – also: 1558 utc on Apr. 29th                            |
| DARC | 7018,0  | 1621 | 06  | 04 | RUS |        | PSK2 | 120  | 2600  | AT3004D - Moscow  |
| DARC | 7030,0  | 1736 | 04  | 04 | RUS |        | F1B  | 75   | 250   | Kaliningrad   |
| DARC | 7030,0  | 1822 | 06  | 04 | UKR |        | F1B  | 40.5 | 500   | system “Frost1” - north of Kiev   |
| DARC | 7038,7  | ady  | dly | 04 | UKR | D      | A1A  |      |       | Cluster beacon – Sevastopol RUS Navy – “RCV”                                  |
| DARC | 7038,8  | ady  | dly | 04 | RUS | P      | A1A  |      |       | Cluster beacon – Kaliningrad RUS Navy – “RMP”                                 |
| DARC | 7038,8  | 1600 | 02  | 04 | RUS | M      | A1A  |      |       | Cluster beacon – Magadan RUS Navy – „RTS“                                     |
| DARC | 7038,9  | ady  | dly | 04 | RUS | S      | A1A  |      |       | Cluster beacon – Murmansk RUS Navy – „RIT“                                    |
| DARC | 7039,0  | ady  | dly | 04 | RUS | C      | A1A  |      |       | Cluster beacon - Moscow RUS Navy - “RIW”                                      |
| DARC | 7039,1  | vt   | dly | 04 | KGZ | A      | A1A  |      |       | Cluster beacon – Bishkek RUS Navy –   |
| DARC | 7039,2  | ady  | dly | 04 | RUS | F      | A1A  |      |       | Cluster beacon - Vladivostok RUS Navy - “RJS”                                 |
| DARC | 7039,3  | vt   | dly | 04 | RUS | K      | A1A  |      |       | Cluster beacon - Petropavlovsk Kamchatskiy - RUS Navy - Pacific fleet - “RCC” |
| DARC | 7039,4  | 1437 | 03  | 04 | RUS | M      | A1A  |      |       | Cluster beacon – Magadan RUS Navy – „RTS“                                     |
| DARC | 7039,9  | ady  | dly | 04 | I   | IZ3DVW | A1A  |      |       | IZ3DVW – beacon not coordinated with IARU                                     |
| DARC | 7048,7  | 1658 | 15  | 04 | UKR |        | A1A  |      |       | Sevastopol, RUS naval base  |
| DARC | 7052,0  | 0629 | 06  | 04 | RUS |        | PSK4 | 120  | 2600  | AT3104D - Mitchurinsk   |
| DARC | 7054,0  | ady  | dly | 04 | RUS |        | F1B  | 50   | 200   | CIS50-50 idling - RUS MIL Moscow  |
| DARC | 7088,8  | 1400 | dly | 04 | S   |        | CW   |      |       | CW-trainee from Sweden – just for info!                                       |
| DARC | 7110,5  | vt   | dly | 04 | HRV | 9A0ALE | FSK8 | 125  | 1750  | ALE, amateur net, just for info!  |
| DARC | 7111,0  | 0633 | 06  | 04 | RUS |        | F1B  | 75   | 250   | Mitchurinsk   |
| DARC | 7111,9  | vt   | dly | 04 | KWT | no ITU | FSK8 | 125  | 1750  | ALE, “UDAIRI” “ATFOPS” – UDAIRI = US MIL Camp Buehring / Kuwait               |
| DARC | 7122,0  | 0635 | 06  | 04 | RUS |        | F1B  | 75   | 250   | Moscow  |
| DARC | 7127,0  | 2137 | 15  | 04 | RUS |        | F1B  | 75   | 250   | Petrozavodsk – also 19.04.11  |
| DARC | 7132,0  | 1636 | 29  | 04 | RUS |        | PSK2 | 120  | 2600  | AT3004D - Voronezh  |
| DARC | 7142,0  | 0954 | 05  | 04 | RUS |        | F1B  | 75   | 250   | Penza   |
| DARC | 7146,0  | 1238 | 05  | 04 | RUS |        | PSK2 | 120  | 2600  | AT3004D - Vladimir  |
| DARC | 7162,0  | 1745 | 04  | 04 | RUS |        | F1B  | 75   | 250   | Moscow  |
| DARC | 7176,0  | 0727 | 14  | 04 | RUS |        | F1B  | 75   | 250   | Moscow  |
| DARC | 7180,0  | vt   | dly | 04 | MRC |        | FSK8 | 125  | 1750  | ALE, “9201” “6350” “RC1”  |
| DARC | 7180,0  | 2037 | 20  | 04 | RUS |        | PSK2 | 120  | 2600  | AT3004D - Ulan-Ude  |
| DARC | 7184,0  | 1717 | 06  | 04 | UKR |        | PSK2 | 120  | 2600  | AT3004D - Sevastopol – also at 0700 utc on 08.04. – possibly RUS naval base   |
| DARC | 7197,0  | vt   | dly | 04 | TUR | no ITU | FSK8 | 125  | 1750  | ALE, “3651” - Red Crescent - West-Turkey                                      |
| DARC | 10106,0 | vt   | dly | 04 | ALG | no ITU | FSK8 | 125  | 1750  | ALE, “OG100A” “OR200B” -  |

| DARC | kHz     | UTC  | DD  | MM | ITU | IDENT  | MODE | BD   | SH/SP | DETAILS   |
|------|---------|------|-----|----|-----|--------|------|------|-------|---|
|      |         |      |     |    |     |        |      |      |       | Algerian MIL  |
| DARC | 10112,0 | ady  | dly | 04 | TUR |        | PSK8 | 2400 | 2400  | Stanag4285 – 600 bps long – TUR MIL - Izmir                         |
| DARC | 10115,0 | 0640 | dly | 04 | RUS |        | FSK4 | 100  | 1500  | CIS14 group - Moscow  |
| DARC | 10118,0 | 0630 | 20  | 04 | RUS |        | F1B  | 75   | 250   |   |
| DARC | 10125,0 | vt   | dly | 04 | LBY | no ITU | FSK8 | 125  | 1750  | ALE, “MOBILE8”<br>“MOBILE16” - Libyan GMMRA                         |
| DARC | 10130,0 | 0740 | 18  | 04 | USA |        | F1B  | 50   | 850   | USA - Maine   |
| DARC | 10130,0 | 2150 | 21  | 04 | TUR |        | FMCW |      | 20k   | OTH Radar Istanbul, 50 pps  |
| DARC | 10134,0 | vt   | dly | 04 | ALG | no ITU | FSK8 | 125  | 1750  | ALE, “CM4” “COF” - Algerian Airforce                                |
| DARC | 10145,0 | 2019 | 11  | 04 | TUR |        | FMCW |      | 20k   | OTH Radar Turkey, 50 pps  |
| DARC | 10150,0 | vt   | dly | 04 |     |        | FSK8 | 125  | 1750  | ALE, “CFA” “CTA”  |
| DARC | 10150,0 | 1948 | 13  | 04 |     |        | FMCW |      |       | unid Superdarn Ionospheric Radar                                    |
| DARC | 14000,0 | vt   | dly | 04 |     | no ITU | FSK8 | 125  | 1750  | ALE, “091” “1010”   |
| DARC | 14000,0 | 1552 | 16  | 04 |     |        |      |      |       | frequency hopper  |
| DARC | 14000,3 | 0639 | 13  | 04 | CHN |        | PSK4 | 75   | 2250  | PRC4+4, 8 x 75 Bd, traffic  |
| DARC | 14005,0 | 0934 | 05  | 04 | KAZ |        | PSK2 | 120  | 2600  | AT3004D - Kazakhstan  |
| DARC | 14007,0 | 1036 | 05  | 04 | RUS |        | PSK2 | 120  | 2600  | AT3004D - Penza   |
| DARC | 14008,0 | 0627 | 21  | 04 | RUS |        | F1B  | 50   | 250   | Moscow  |
| DARC | 14016,0 | 0710 | 04  | 04 | RUS |        | PSK2 | 120  | 2600  | AT3004D - Moscow  |
| DARC | 14016,0 | 0920 | 04  | 04 | KAZ |        | PSK2 | 120  | 2600  | AT3004D - Kazakhstan  |
| DARC | 14026,0 | 1029 | 18  | 04 |     |        | PSK2 | 120  | 2600  | AT3004D - Moscow  |
| DARC | 14028,0 | 0924 | 04  | 04 | RUS |        | F1B  | 75   | 250   | Penza – daily   |
| DARC | 14044,0 | 0707 | 04  | 04 | RUS |        | F1B  | 75   | 500   | Irkutsk   |
| DARC | 14052,0 | 0759 | 24  | 04 | RUS |        | PSK2 | 120  | 2600  | AT3004D - Kazan   |
| DARC | 14069,0 | 0820 | 25  | 04 | RUS |        | F1B  | 75   | 500   | area of Vladivostok   |
| DARC | 14100,0 | 0711 | 04  | 04 | RUS |        | F1B  | 44.1 | 250   | idling, long lasting, area of Baikalsea                             |
| DARC | 14119,0 | 0830 | 05  | 04 | RUS |        | F1B  | 5    | 200   | Severomorsk   |
| DARC | 14162,0 | 0802 | 24  | 04 | RUS |        | PSK2 | 120  | 2600  | AT3004D - Velikije Luki   |
| DARC | 14180,0 | 0628 | 21  | 04 | RUS |        | F1B  | 50   | 250   |   |
| DARC | 14180,0 | 1922 | 24  | 04 | UKR |        | F1B  | 50   | 200   | area of Sevastopol – Black Sea                                      |
| DARC | 14228,0 | 0830 | 17  | 04 | RUS |        | PSK2 | 120  | 2600  | AT3004D - Moscow  |
| DARC | 14240,0 | 0757 | 22  | 04 | RUS |        | F1B  | 75   | 200   | Kaliningrad   |
| DARC | 14242,0 | 0715 | 09  | 04 | RUS |        | PSK2 | 120  | 2600  | AT3004D - Moscow  |
| DARC | 14252,0 | 0725 | 04  | 04 | RUS |        | F1B  | 75   | 250   | Penza   |
| DARC | 14253,0 | 1454 | 22  | 04 | RUS |        | F1B  | 75   | 250   | area of Orenburg  |
| DARC | 14253,0 | 1429 | 06  | 04 | KAZ |        | PSK4 | 120  | 2600  | AT3104D - area of Astana  |
| DARC | 14255,0 | 0811 | 22  | 04 |     |        | PSK2 | 120  | 2600  | AT3004D - Samara  |
| DARC | 14257,0 | 1336 | 05  | 04 | RUS |        | PSK2 | 120  | 2600  | AT3004D - Penza   |
| DARC | 14263,0 | 1023 | 17  | 04 | RUS |        | F1B  | 75   | 250   | north of Voronezh   |
| DARC | 14265,0 | 0850 | 17  | 04 | RUS |        | PSK2 | 120  | 2600  | AT3004D - Moscow  |
| DARC | 14294,0 | 0750 | 18  | 04 |     |        | PSK2 | 120  | 2600  | AT3004D - 60 deg. – weak signal                                     |
| DARC | 14300,0 | 1905 | 30  | 04 |     |        |      |      |       | frequency hopper  |
| DARC | 14344,7 | ady  | dly | 04 | CHN |        | PSK8 | 2400 | 2400  | MIL-188-110A – 600 bps short - intro tone ACARS like – burst system |
| DARC | 18070,0 | 0717 | 12  | 04 | CYP |        | FMCW |      | 20k   | OTH Radar Cyprus, 50 pps  |
| DARC | 18099,0 | 1602 | 11  | 04 |     |        |      |      |       | frequency hopper  |
| DARC | 18100,0 | 0736 | 08  | 04 |     |        |      |      |       | frequency hopper  |
| DARC | 18107,0 | vt   | vd  | 04 | RUS |        | F1B  | 50   | 250   | Moscow  |
| DARC | 18165,0 | 0634 | 21  | 04 | CYP |        | FMCW |      | 20k   | OTH Radar Cyprus, 50 pps  |
| DARC | 21000,0 | 0801 | 14  | 04 | RUS | RAZ2   | F1B  | 39   | 1000  | harmonic from 10500 - idling - Mitschurinsk - daily                 |
| DARC | 21000,0 | 1657 | 12  | 04 |     |        |      |      |       | frequency hopper  |
| DARC | 21001,5 | ady  | dly | 04 | RUS |        | F1B  | 100  | 150   | Yakhta synchro F1B - Jekaterinburg                                  |
| DARC | 21002,2 | 1445 | 01  | 04 |     |        | F1B  | 200  | 200   | Pactor 1  |
| DARC | 21002,2 | 1420 | 07  | 04 | SDN |        | FSK  | 100  | 200   | Pactor1 encrypted, SDN-MFA + SDN-emba Yemen                         |
| DARC | 21010,0 | 0732 | 10  | 04 | TUR |        | FMCW |      | 20k   | OTH Radar Istanbul, 50 pps  |
| DARC | 21010,0 | 1002 | 14  | 04 | CYP |        | FMCW |      | 20k   | OTH Radar Cyprus, 25 pps  |

| DARC | kHz     | UTC  | DD  | MM | ITU | IDENT | MODE | BD  | SH/SP | DETAILS   |
|------|---------|------|-----|----|-----|-------|------|-----|-------|---|
| DARC | 21012,0 | 0945 | 05  | 04 | TUR |       | FMCW |     | 20k   | OTH Radar Turkey                                    |
| DARC | 21032,0 | 1855 | 29  | 04 |     |       |      |     |       | frequency hopper                                    |
| DARC | 21055,0 | 0929 | 22  | 04 | CYP |       | FMCW |     | 20k   | OTHR Cyprus - 25 pps                                |
| DARC | 21070,0 | 0935 | 14  | 04 | TUR |       | FMCW |     | 20k   | OTH Radar Istanbul, 50 pps                          |
| DARC | 21095,5 | 0700 | 26  | 04 | RUS |       | FMCW |     | 10k   | OTH Radar RUS – 50 pps – 1.9 sec bursts             |
| DARC | 21115,0 | 0802 | 14  | 04 |     |       |      |     |       | frequency hopper                                    |
| DARC | 21120,0 | 1500 | 25  | 04 | CYP |       | FMCW |     | 80k   | OTH Radar Cyprus, 25 pps                            |
| DARC | 21135,0 | 1220 | 14  | 04 | RUS |       | FMCW |     | 10k   | OTH Radar - Nizhniy Novgorod – 50 pps bursts        |
| DARC | 21145,0 | 1411 | 06  | 04 | CYP |       | FMCW |     | 20k   | OTH Radar Cyprus, 25 pps                            |
| DARC | 21145,0 | 0930 | 09  | 04 | CYP |       | FMCW |     | 20k   | OTH Radar Cyprus, 50 pps                            |
| DARC | 21145,0 | 1039 | 18  | 04 | TUR |       | FMCW |     | 20k   | OTH Radar Istanbul, 50 pps                          |
| DARC | 21150,0 | 0935 | 23  | 04 | TUR |       | FMCW |     | 20k   | OTH Radar Istanbul, 50 pps                          |
| DARC | 21156,0 | 0717 | 06  | 04 | RUS |       | PSK4 | 120 | 7800  | 3 <sup>rd</sup> from 7052 - Mitchurinsk             |
| DARC | 21174,0 | 1918 | 24  | 04 |     |       |      |     |       | frequency hopper                                    |
| DARC | 21190,0 | 1511 | 16  | 04 | TUR |       | FMCW |     | 20k   | OTH Radar Istanbul, 50 pps                          |
| DARC | 21240,0 | 1102 | 18  | 04 | CYP |       | FMCW |     | 20k   | OTH Radar Cyprus, 50 pps                            |
| DARC | 21255,0 | 1217 | 14  | 04 |     |       | FMCW |     | 20k   | OTH Radar Cyprus, 25 pps                            |
| DARC | 21330,0 | 1322 | 10  | 04 | CYP |       | FMCW |     | 20k   | OTH Radar Cyprus, 50 pps                            |
| DARC | 21400,0 | 0713 | 06  | 04 | RUS |       | F1B  | 50  | 2000  | harmonic from 5350 – west of Jekaterinburg          |
| DARC | 21409,5 | 0640 | 26  | 04 | RUS |       | F1B  | 100 | 2000  | 4 <sup>th</sup> from 5352.375                       |
| DARC | 21415,0 | 1409 | 26  | 04 | CYP |       | FMCW |     | 20k   | OTH Radar Cyprus, 25 pps                            |
| DARC | 21430,0 | 1440 | 15  | 04 | TUR |       | FMCW |     | 20k   | OTH Radar Istanbul, 50 pps                          |
| DARC | 24890,0 | 1504 | 14  | 04 |     |       |      |     |       | frequency hopper                                    |
| DARC | 24905,0 | 1332 | 16  | 04 |     |       |      |     |       | frequency hopper                                    |
| DARC | 24910,0 | 0921 | 23  | 04 |     |       |      |     |       | frequency hopper                                    |
| DARC | 24920,0 | 1551 | 15  | 04 |     |       |      |     |       | frequency hopper                                    |
| DARC | 24950,0 | 0946 | 12  | 04 |     |       | FMCW |     |       | Codar HF-Radar – 24950 – 25250 kHz - 2 sweeps / sec |
| DARC | 28000,0 | vt   | dly | 04 | SNG |       | FSK8 | 125 | 1750  | ALE, “DN4” - Singapore Navy?                        |
| DARC | 28995,0 | 0853 | 20  | 04 | CYP |       | FMCW |     | 20k   | OTH Radar Cyprus, 50 pps                            |

### IRTS – Ireland – EI4GXB (Ger)

### KARS – Kuwait – 9K2RR (Faisal)

### MRASZ – Hungary - HA7PL (Laci)

| CLUB  | kHz     | UTC | DD | MM | MODE       | ITU | IDENT | BD  | SH   | DETAILS                                    |
|-------|---------|-----|----|----|------------|-----|-------|-----|------|--|
| MRASZ | 7000,0  | VT  | VD | 4  | FSK8 (ALE) | Ui  | UiMUX | 125 | 1750 | MEDOPS                                     |
| MRASZ | 7045,0  | VT  | VD | 04 | FSK8 (ALE) | Ui  | UiMUX | 125 | 1750 | 4 FIGURES NET                              |
| MRASZ | 7070,0  | VT  | VD | 04 | FSK8 (ALE) | Ui  | UiMUX | 125 | 1750 | 244-NET                                    |
| MRASZ | 7080,0  | VT  | VD | 04 | FSK8 (ALE) | ALB | UiMUX | 125 | 1750 | 5810                                       |
| MRASZ | 7092,0  | VT  | VD | 04 | FSK8 (ALE) | Ui  | UiMUX | 125 | 1750 | 20??-NET                                   |
| MRASZ | 7095    | VT  | VD | 04 | FSK8 (ALE) | Ui  | UiMUX | 125 | 1750 | 110-NET<br>UZBEK FORCE                     |
| MRASZ | 7097    | VT  | VD | 04 | FSK8 (ALE) | Ui  | UiMUX | 125 | 1750 | 3ST  |
| MRASZ | 7107,0  | VT  | VD | 04 | FSK8 (ALE) | Ui  | UiMUX | 125 | 1750 | 437802                                     |
| MRASZ | 7115,0  | VT  | VD | 04 | FSK8 (ALE) | UZB | UiMUX | 125 | 1750 | 110-NET<br>UZBEK FORCES                    |
| MRASZ | 7116,0  | VT  | VD | 04 | FSK8 (ALE) | Ui  | UiMUX | 125 | 1750 | 1101, 1102, 1103,<br>1104 UNID             |
| MRASZ | 7197,0  | VT  | VD | 02 | FSK8 (ALE) | Ui  | UiMUX | 125 | 1750 | 33450, 43402,<br>123456, 123466,<br>206102 |
| MRASZ | 14000,0 | VT  | VD | 02 | FSK8 (ALE) | Ui  | UiMUX | 125 | 1750 | 1010                                       |

OEVSV – Austria – OE3DMA (Alex)

PZK – Poland – SP3UZ (Wladyslaw)

REP – Portugal – CT4AN (Jose Francisco)

| SOC | KHz         | UTC          | DD        | MM        | ITU        | IDENT                  | MODE           | BD  | SH  | DETAILS  |
|-----|-------------|--------------|-----------|-----------|------------|------------------------|----------------|-----|-----|--|
| REP | 3500        | 21.21        | 11        | 04        |            | ?                      | Pulse          |     |     | 1 bps  |
| REP | 3500        | 19.57        | 04        | 04        | POR<br>SPA | ni                     | J3E-U          |     |     | Fishermen on sea <b>25uV S8</b>  |
| REP | 3500        | 22.10        | 23        | 04        | ITA        |                        | A3E            |     |     | Pirates from Italy   |
| REP | 3504        | 22.21        | 20        | 04        | ITA        |                        | J3E-L          |     |     | Italian pirates  |
| REP | 3505        | 21.25        | 2         | 04        |            | ?                      | J3E-U          |     |     | Russian voice talk   |
| REP | 3522        | 07.22        | 08        | 04        |            | ni                     | Pulse          |     |     |  |
| REP | 3534        | 09.17        | 05        | 04        | SPA        |                        | J3R-U          |     |     | Fishermen in Spanish   |
| REP | 3535        | 07.28        | 16        | 04        | SPA        |                        | J3E-L          |     |     | Spanish fishers at Balear islands  |
| REP | <b>3550</b> | <b>08.05</b> | <b>13</b> | <b>04</b> | <b>FRA</b> |                        | <b>A3E -AM</b> |     |     | <b>French Amateurs INFRINGE</b>  |
| REP | <b>3550</b> | <b>07.44</b> | <b>16</b> | <b>04</b> | <b>FRA</b> |                        | <b>A3E -AM</b> |     |     | <b>French Amateurs INFRINGE</b>  |
| REP | <b>3550</b> | <b>07.13</b> | <b>28</b> | <b>04</b> | <b>FRA</b> |                        | <b>A3E -AM</b> |     |     | <b>French Amateurs DLY INFRINGE</b>                                      |
| REP | <b>3550</b> | <b>08.45</b> | <b>29</b> | <b>04</b> | <b>FRA</b> |                        | <b>A3E -AM</b> |     |     | <b>French Amateurs INFRINGE</b>  |
| REP | 3550        | 21.28        | 27        | 04        |            | ?                      | J3E-L          |     |     | Several english voices <b>25uV S8</b>                                    |
| REP | <b>3550</b> | <b>06.19</b> | <b>07</b> | <b>04</b> | <b>FRA</b> | <b>French Amateurs</b> | <b>A3E -AM</b> |     |     | <b>French Amateurs DLY INFRINGE 25uV S8</b>                              |
| REP | <b>3550</b> | <b>07.23</b> | <b>07</b> | <b>04</b> | <b>FRA</b> | <b>French Amateurs</b> | <b>A3E-AM</b>  |     |     | <b>French Amateurs DAILY !!! INFRINGE IARU BAND PLAN</b>                 |
| REP | <b>3575</b> | <b>08.11</b> | <b>12</b> | <b>04</b> | <b>FRA</b> | <b>French Amateurs</b> | <b>A3E-AM</b>  |     |     | <b>French Amateurs DAILY !!! INFRINGE IARU BAND PLAN</b>                 |
| REP | 3580        | 19.30        | 20        | 04        | SPA        |                        | J3E-U          |     |     | Spanish fishery ref. La Coruna   |
| REP | 3594        | 21.00        | DLY       | 04        |            | S                      | A1A            |     |     |  |
| REP | 3595        | 21.00        | DLY       | 04        |            | D                      | A1A            |     |     |  |
| REP | 3595        | 23.22        | 07        | 04        |            | D                      | A1A            |     |     | <b>25uV S8</b>   |
| REP | 3630        | 22.12        | 03        | 04        |            |                        | J3E-U          |     |     | Arabic language talks  |
| REP | 3625        | 08.36        | 22        | 04        |            |                        | J3E-U          |     |     | Arabic language talks  |
| REP | 3625        | 08.20        | 28        | 04        | SPA        |                        | J3E-U          |     |     | Spanish fishermen (sea to Huelva)  |
| REP | 3627        | 08.40        | 24        | 04        | SPA<br>POR |                        | J3E-U          |     |     | Spanish+Portuguese fishermen   |
| REP | 3756        | 02.18        | 11        | 04        | UKR        |                        | A2A            |     |     | Pulse, 1 bps <b>25uV S8</b>  |
| REP | 7002        | 21.39        | 14        | 04        |            |                        | J3E-L          |     |     | Arab language <b>6.3uV S6</b>  |
| REP | 7000        | 00.28        | 10        | 04        | SPA        |                        | J3E-L          |     |     | Ola + tuning <b>25uV S8</b>  |
| REP | 7000        | 16.00        | 06        | 04        |            | V                      | A1A            |     |     | Marker   |
| REP | 7001        | 07.10        | 17        | 04        | ITA        |                        | J3E-L          |     |     | <b>Italian Amateurs testing mic and gains. Talking. INFRINGE 50uV S9</b> |
| REP | 7001        | 09.29        | 10        | 04        |            |                        | J3E-U          |     |     | Arab lang talking <b>50uV S9</b>   |
| REP | 7001        | 02.11        | 17        | 04        |            | ?                      | J3E-L          |     |     | Arab / Magreb talking <b>0.78uV S3</b>                                   |
| REP | 7001,3      | 01.35        | 21        | 04        | SPA        |                        | J3E-U          |     |     | Spanish fishermen <b>25uV S8</b>   |
| REP | 7009        | 21.43        | 12        | 04        | SPA        |                        | J3E-U          |     |     | Spanish fishermen talking with family                                    |
| REP | 7020        | 22.31        | 15        | 04        |            |                        | J3E-L          |     |     | Arab talks   |
| REP | 7025        | 23.14        | 14        | 04        |            |                        | J3E-L          |     |     | Arab talking <b>3.1uV S5</b>   |
| REP | 7025        | 18.02        | 28        | 04        | SPA        |                        | J3E-L          |     |     | Spanish fishers - Huelva   |
| REP | 7030        | 19.33        | 05        | 04        | SPA        |                        | J3E-U          |     |     | Spanish fishermen (sea to harbour)                                       |
| REP | 7030        | 19.58        | 19        | 04        |            | ni                     | F1B            | 75  | 250 |  |
| REP | 7038,6      | 07.00        | 14        | 04        | RUS        | S                      | A1A            |     |     | MURMANSK, ADY, DLY <b>3.1uV S5</b>                                       |
| REP | 7038,7      | 07.10        | 27        | 04        | UKR        | D                      | A1A            |     |     | SEVASTOPOL, ADY, DLY <b>25uV S8</b>                                      |
| REP | 7038,7      | 07.20        | 21        | 04        | UKR        | D                      | A1A            |     |     | SEVASTOPOL, ADY, DLY <b>0.2uV S1</b>                                     |
| REP | 7038,7      | 23.00        | 29        | 04        | UKR        | D                      | A1A            |     |     | SEVASTOPOL Beacon <b>12.5uV S7</b>                                       |
| REP | 7039,0      | 07.30        | 30        | 04        | RUS        | C                      | A1A            |     |     | MOSCOW, ADY, DLY <b>6.3uV S6</b>   |
| REP | 7039        | 23.23        | 28        | 04        | RUS        | C                      | A1A            |     |     | MOSCOW Beacon <b>50uV S9</b>   |
| REP | 7039,1      | 18.40        | 18        | 04        | RUS        | A                      | A1A            |     |     | VOLGOGRAD, ADY, DLY <b>3.1uV S5</b>                                      |
| REP | 7039,1      | 21.30        | 18        | 04        | RUS        | A                      | A1A            |     |     | VOLGOGRAD, ADY, DLY <b>6.3uV S6</b>                                      |
| REP | 7041        | 18.36        | 06        | 04        |            | ni                     | F1B            | 75  | 200 |  |
| REP | 7045        | 22.41        | 01        | 04        |            |                        | J3E-U          |     |     | Arabic language <b>1.6uV S4</b>  |
| REP | 10105       | 22.10        | 11        | 04        | MLA        |                        | J3E-U          |     |     | Malaysian fishers <b>3.1uV S5</b>  |
| REP | 10106       | 20.39        | 14        | 04        |            |                        | J3E-U          |     |     | Malaysia fishers male voices ?   |
| REP | 10120       | 19.07        | 20        | 04        |            |                        | J3E-U          |     |     | Malaysia fishers male voices ?   |
| REP | 10131       | 14.32        | 24        | 04        |            | ni                     | F1B            | 200 | 200 |  |

| SOC | KHz   | UTC   | DD | MM | ITU | IDENT | MODE  | BD | SH | DETAILS                      |
|-----|-------|-------|----|----|-----|-------|-------|----|----|------------------------------|
| REP | 10136 | 19.54 | 16 | 04 |     | ni    | J3E-U |    |    | Scrambled voices, 400Hz wide |
| REP | 14000 | 07.41 | 21 | 04 | SPA |       | J3E-U |    |    | Spanish fishers - Ceuta      |
| REP | 14005 | 07.25 | 28 | 04 | SPA |       | J3E-U |    |    | Spanish fishery              |
| REP | 14165 | 19.46 | 02 | 04 |     | ni    | J3E-U |    |    | English talks - family Phone |
| REP | 28015 | 21.36 | 14 | 04 |     | ?     | A3E   |    |    | Talks (CB)                   |
| REP | 28050 | 09.04 | 07 | 04 | RUS |       | F3E   |    |    | Taxis                        |
| REP | 28060 | 09.00 | 22 | 04 | RUS |       | F3E   |    |    | Taxis Moscou ?               |
| REP | 28070 | 20.23 | 02 | 04 | FRA |       | A3E   |    |    | CB's inside Ham Band         |
| REP | 28070 | 22.58 | 03 | 04 | FRA |       | A3E   |    |    | CB's inside Ham Band         |
| REP | 28135 | 15.22 | 06 | 04 | RUS |       | F3E   |    |    | Radio-Taxis                  |
| REP | 28175 | 14.20 | 05 | 04 | HRV |       | F3E   |    |    | Radio-Taxis                  |
| REP | 28245 | 16.11 | 16 | 04 | RUS |       | F3E   |    |    | Radio-Taxis                  |
| REP | 28325 | 18.16 | 18 | 04 | ITA |       | A3E   |    |    | Talks – males + female       |
| REP | 28375 | 15.22 | 30 | 04 | RUS | ?     | F3E   |    |    | Russian talkings             |

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

| Society | kHz             | UTC | DD          | MM | ITU | IDENT | REMARKS   |
|---------|-----------------|-----|-------------|----|-----|-------|---|
| RSGB    | 1700 – 6000 kHz | 24H | Continuuous | 04 | G   | Sonde | Drift mode sonde covers 1700-6000 kHz in 400 kHz sections. Follows MUF. 2 minute transmissions at 08,23,38, 53 mins. past the hour. Manufacturer agreed to notch out all amateur allocations between 1780 and 7230 kHz. at my request! Nothing heard since mid April. |

### SRAL – Finland – OH2BLU (Pekka)

| Society | kHz    | UTC       | DD       | MM | ITU | IDENT  | MODE | BAUD   | SHIFT  | REMARKS  |
|---------|--------|-----------|----------|----|-----|--------|------|--------|--------|--|
| SRAL    | 7008,0 | 0645-1930 | 6, 7     | 4  |     | UiPTR  | F1B  |        | 250    |  |
| SRAL    | 7012,0 | 1525-1642 | 29       | 4  |     | UiPTR  | F1B  |        | 250    | nr Moscow                                      |
| SRAL    | 7015,0 | 1840      | 9        | 4  |     | UiPTR  | F1B  |        | 200    |  |
| SRAL    | 7016,0 | 0800-1230 | 2, 14    | 4  |     | UiPTR  | F1B  |        | 250    |  |
| SRAL    | 7018,0 | 0600-1830 | 6, 25    | 4  |     | UiMUX  | J7D  | 12x120 | 12x200 |  |
| SRAL    | 7018,7 | 0830-1205 | 19       | 4  |     | UiCarr | N0N  |        |        |  |
| SRAL    | 7020,0 | 0600-0800 | 27       | 4  |     | UiPTR  | F1B  |        | 250    |  |
| SRAL    | 7024,0 | 1530-1650 | 28       | 4  |     | UiPTR  | F1B  |        | 200    |  |
| SRAL    | 7028,0 | 1400-1900 | 5, 6     | 4  |     | UiMUX  | J7D  | 12x120 | 12x200 |  |
| SRAL    | 7030,0 | 1130-1915 | 1, 4, 13 | 4  | RUS | UiPTR  | F1B  |        | 250    | Kaliningrad                                    |
| SRAL    | 7030,0 | 1130-1915 | 6        | 4  | UKR | UiPTR  | F1B  |        | 500    |  |
| SRAL    | 7033,0 | 0600-0700 | 6        | 4  |     | MZAW   | A1A  |        |        |  |
| SRAL    | 7033,0 | 0700-1145 | 6, 22    | 4  |     | UiPTR  | F1B  |        | 250    |  |
| SRAL    | 7035,0 | 0655-1700 | 22, 29   | 4  |     | UiMUX  | J7D  | 12x120 | 12x200 |  |
| SRAL    | 7037,0 | 1300-1330 | 7        | 4  |     | UiMUX  | J7D  | 12x120 | 12x200 |  |
| SRAL    | 7038,7 | H24       | dly      | 4  | UKR | D      | A1A  |        |        | Sevastopol, on 15 th 1800-1920 + 10 kHz off fq |
| SRAL    | 7038,9 | H24       | dly      | 4  | RUS | S      | A1A  |        |        | Severomorsk                                    |
| SRAL    | 7039,0 | H24       | dly      | 4  | RUS | C      | A1A  |        |        | Moscow   |
| SRAL    | 7041,0 | 1505      | 7        | 4  |     | UiCW   | A1A  |        |        | MR, 5BL  |
| SRAL    | 7052,0 | 0500-1400 | 6, 9, 10 | 4  | RUS | UiMUX  | J7D  | 12x120 | 12x200 | Mitchurinsk                                    |



| Society | kHz     | UTC       | DD       | MM     | ITU | IDENT        | MODE | BAUD   | SHIFT   | REMARKS   |
|---------|---------|-----------|----------|--------|-----|--------------|------|--------|---------|---|
| SRAL    | 7054,0  | 0300-0500 | dly      | 4      | RUS | UiPTR        | F1B  |        | 200     | Moscow  |
| SRAL    | 7057,5  | 0400-0930 | 28, 30   | 4      |     | LKFQ         | A1A  |        |         | MR, 5F (x)  |
| SRAL    | 7080,0  | 0545-0606 | 5        | 4      |     | UiPTR        | F1B  |        | 200     |   |
| SRAL    | 7082,0  | 0500-0740 | 16       | 4      |     | UiMUX        | J7D  | 12x120 | 12x200  |   |
| SRAL    | 7112,0  | 0800-1400 | *        | 4      |     | UiPTR        | F1B  |        | 250     | Days: 5, 14, 19, 20   |
| SRAL    | 7120,0  | 1500-1810 | dly      | 4      | ERI | VoBME 1      | A3E  |        |         | QSY to 7100 – 7135, jammed by ETH to 1700, 29 th & 30 th - 1900 |
| SRAL    | 7127,0  | 1725-1930 | 19       | 4      |     | UiPTR        | F1B  |        | 250     |   |
| SRAL    | 7132,0  | 0950-1930 | 22       | 29, 30 | UKR | UiMUX        | J7D  | 12x120 | 12x200  | nr Kiev   |
| SRAL    | 7142,0  | 1430-1730 | 5,15, 16 | 4      |     | UiPTR        | F1B  |        | 200/250 |   |
| SRAL    | 7150,0  | 1330-1436 | 16, 17   | 4      |     | UiMUX        | J7D  | 12x120 | 12x200  |   |
| SRAL    | 7155,0  | 1500-1805 | dly      | 4      | ERI | VoBME        | A3E  |        |         | QSY to 7145 – 7165, jammed by ETH to 1700, 29 th & 30 th - 1900 |
| SRAL    | 7162,0  | 0800-1930 | *        | 4      | RUS | UiPTR        | F1B  |        | 250     | Days: 1, 4, 9, 13, 21   |
| SRAL    | 7175,0  | 1500-1805 | dly      | 4      | ERI | VoBME 2      | A3E  |        |         | QSY to 7185, jammed by ETH to 1700, 29 th & 30 th -1900         |
| SRAL    | 7196,0  | 0500-0800 | 21       | 4      | RUS | UDW4         | F1B  |        | 250     |   |
| SRAL    | 7200,0  | 1440-1530 | dly      | 4      | SDN | R Sudan      | A3E  |        |         |   |
| SRAL    | 7200,0  | 1730-2100 | dly      | 4      | SDN | R Sudan      | A3E  |        |         |   |
| SRAL    | 10150,0 | 1845-1930 | 22       | 4      | CYP | UiOTHR       | P0N  |        |         | 50 Hz , 20 kHz wide   |
| SRAL    | 14003,0 | 0930-1300 | *        | 4      |     | UiPTR        | F1B  |        | 200/250 | Days: 1, 5, 14, 16.   |
| SRAL    | 14005,0 | 1000-1105 | 5        | 4      |     | UiMUX        | J7D  | 12x120 | 12x200  |   |
| SRAL    | 14016,0 | 0730-1000 | 4        | 4      | RUS | UiMUX        | J7D  | 12x120 | 12x200  | Moscow  |
| SRAL    | 14028,0 | 0700-1230 | *        | 4      | RUS | UiPTR        | F1B  |        | 200/250 | Penza, Days: 4, 7, 11, 14, 18, 21, 25, 27.                      |
| SRAL    | 14050,0 | 1320      | 27       | 4      |     | UiPTR        | F1B  |        | 200     |   |
| SRAL    | 14138,0 | 0930-1000 | 1        | 4      |     | UiPTR        | F1B  |        | 250     |   |
| SRAL    | 14162,0 | 0810      | 24       | 4      | RUS | UiMUX        | J7D  | 12x120 | 12x200  | Velikie Luki  |
| SRAL    | 14180,0 | 0400-1945 | *        | 4      | RUS | RDL          | F1B  |        | 200/250 | Days: 13, 14, 15, 19, 20, 24, 26, 27, 28.                       |
| SRAL    | 14240,0 | 0430-1900 | 22, 23   | 4      |     | UiPTR        | F1B  |        | 200     |   |
| SRAL    | 14253,0 | 0700-1804 | *        | 4      |     | UiPTR        | F1B  |        | 250     | Days: 4, 8, 11, 15, 22, 25.                                     |
| SRAL    | 14295,1 | 0300-1930 | dly      | 4      | TJK | R Tojikiston | A3E  |        |         | 3f 4765,05 kHz, Yangiyul TX                                     |
| SRAL    | 18090,0 | 0845      | 19       | 4      | CYP | UiOTHR       | P0N  |        |         | 50 Hz , 20 kHz wide   |
| SRAL    | 21001,5 | 1050-1260 | 12       | 4      |     | UiPTR        | F1B  |        | 150     |   |
| SRAL    | 21010,0 | 0650-1605 | 10       | 4      | CYP | UiOTHR       | P0N  |        |         | 50 Hz , 20 kHz wide   |
| SRAL    | 21070,0 | 0935      | 14       | 4      | CYP | UiOTHR       | P0N  |        |         | 50 Hz , 20 kHz wide   |
| SRAL    | 21150,0 | 1000-1322 | 14, 18   | 4      | CYP | UiOTHR       | P0N  |        |         | 50 Hz , 20 kHz wide   |

| Society | kHz     | UTC       | DD | MM | ITU | IDENT  | MODE | BAUD | SHIFT | REMARKS             |
|---------|---------|-----------|----|----|-----|--------|------|------|-------|---------------------|
| SRAL    | 21250,0 | 1200-1237 | 14 | 4  | CYP | UiOTHR | P0N  |      |       | 25 Hz               |
| SRAL    | 24910,0 | 0955      | 22 | 4  | CYP | UiOTHR | P0N  |      |       | 25 Hz               |
| SRAL    | 21990,0 | 1250-1300 | 14 | 4  | CYP | UiOTHR | P0N  |      |       | 50 Hz , 20 kHz wide |

## USKA – Switzerland – HB9CET (Peter)

| SOC  | kHz      | UTC   | DD | MM | ITU | IDENT  | MODE  | BD     | SH (BW) | DETAILS                         |
|------|----------|-------|----|----|-----|--------|-------|--------|---------|---------------------------------|
| USKA | 6998.0   | 2136  | 27 | 04 |     |        | Noise |        | ≥25 kHz | Jammer                          |
| USKA | 7000.0   | 0000  | 01 | 04 |     | FUZZY  | MFSK8 | 125    | 1750    | MIL 188-141A daily              |
| USKA | 7000.0   | 0003  | 01 | 04 |     | T1Z185 | MFSK8 | 125    | 1750    | MIL 188-141A daily              |
| USKA | 7000.0   | 0006  | 01 | 04 |     | T1Z171 | MFSK8 | 125    | 1750    | MIL 188-141A daily              |
| USKA | 7000.0   | 0009  | 01 | 04 |     | MEDOPS | MFSK8 | 125    | 1750    | MIL 188-141A daily              |
| USKA | 7000.0   | 0012  | 01 | 04 |     | LNGKNF | MFSK8 | 125    | 1750    | MIL 188-141A daily              |
| USKA | 7000.0   | 1015  | 07 | 04 |     |        | N0N   |        |         | strong carrier                  |
| USKA | 7000.0   | 2245  | 07 | 04 |     | 2214   | MFSK8 | 125    | 1750    | MIL 188-141A                    |
| USKA | 7002.0   | 1032  | 04 | 04 |     |        | F1B   | 75     | 1000    | unid                            |
| USKA | 7008.0   | 2211  | 07 | 04 |     |        | F1B   | 75     | 250     | unid                            |
| USKA | 7012.0   | 1606  | 29 | 04 |     |        | F1B   | 75     | 250     | unid                            |
| USKA | 7020.0   | 0731  | 27 | 04 |     |        | F1B   | 75     | 250     | unid                            |
| USKA | 7030.0   | 1624  | 04 | 04 |     |        | F1B   | 75     | 250     | unid                            |
| USKA | 7030.0   | 1508  | 09 | 04 |     |        | F1B   | 40.5   | 250     | CIS 81 in 40.5 Baud mode        |
| USKA | 7038.3   | 1149  | 09 | 09 | RUS | K      | A1A   |        |         | Beacon K Petropavlovsk          |
| USKA | 7038.7   | 1436  | 01 | 04 | UKR | D      | A1A   |        |         | Beacon D Sevastopol daily       |
| USKA | 7038.8   | 1439  | 01 | 04 | RUS | P      | A1A   |        |         | Beacon P Kaliningrad            |
| USKA | 7038.9   | 1438  | 01 | 04 | RUS | S      | A1A   |        |         | Beacon S Murmansk daily         |
| USKA | 7039.0   | 1437  | 01 | 04 | RUS | C      | A1A   |        |         | Beacon C Moscow daily           |
| USKA | 7039.2   | 1147  | 09 | 04 | RUS | F      | A1A   |        |         | Beacon F Vladivostok daily      |
| USKA | 7039.4   | 1148  | 09 | 04 | RUS | M      | A1A   |        |         | Beacon M Magadan daily          |
| USKA | 7041.275 | 1913  | 25 | 04 |     |        | A1A   |        |         | figures + letters in groups     |
| USKA | 7048.7   | 1650  | 15 | 04 |     | D      | A1A   |        |         | Beacon D (maloperation ?)       |
| USKA | 7052.0   | 06:10 | 06 | 04 |     |        | J7D   | 12x120 | 2k6     | PSK-4: CIS 12 = AT3104D         |
| USKA | 7053.9   | 2025  | 28 | 04 |     |        | A1A   |        |         | long lasting dash/dot - Jammer  |
| USKA | 7054.0   | 2028  | 04 | 04 |     |        | F1B   | 50     | 200     | unid                            |
| USKA | 7070.0   | 1948  | 04 | 04 |     | 571    | MFSK8 | 125    | 1750    | MIL 188-141A TO: 244            |
| USKA | 7070.0   | 1602  | 14 | 04 |     | 244    | MFSK8 | 125    | 1750    | MIL 188-141A TO: 204            |
| USKA | 7105.0   | 2200  | 08 | 04 | CHN |        | A3E   |        |         | BC (2 stations) daily           |
| USKA | 7105.0   | 2201  | 08 | 04 | TWN |        | A3E   |        |         | BC (2 stations) daily           |
| USKA | 7111.0   | 1329  | 20 | 04 |     |        | F1B   | 75     | 250     | unid                            |
| USKA | 7111.9   | 2029  | 01 | 04 |     | UDAIRI | MFSK8 | 125    | 1750    | MIL 188-141A                    |
| USKA | 7111.9   | 2145  | 01 | 04 |     | ATFOPS | MFSK8 | 125    | 1750    | MIL 188-141A                    |
| USKA | 7114.0   | 2037  | 22 | 04 |     |        | F1B   | 50     | 200     | unid                            |
| USKA | 7118.0   | 2217  | 07 | 04 |     |        | J7D   | 12x120 | 2k6     | PSK-2: CIS 12 = AT3004D         |
| USKA | 7120.0   | 1637  | 04 | 04 |     |        | A3E   |        |         | Voice of the Broad Masses       |
| USKA | 7120.0   | 1637  | 04 | 04 |     |        | Noise |        | 10 kHz  | Jammer                          |
| USKA | 7120.0   | 1611  | 15 | 04 |     |        | A3E   |        |         | Voice of the Broad Masses       |
| USKA | 7120.0   | 1611  | 15 | 04 |     |        | Noise |        | 10 kHz  | Jammer                          |
| USKA | 7127.0   | 2122  | 08 | 94 |     |        | F1B   | 75     | 250     | unid often                      |
| USKA | 7130.0   | 1650  | 29 | 04 |     |        | A3E   |        |         | Voice of the Broad Masses       |
| USKA | 7130.0   | 1651  | 29 | 04 |     |        | Noise |        | 10 kHz  | Jammer                          |
| USKA | 7132.0   | 1559  | 29 | 04 |     |        | J7D   | 12x120 | 2k6     | PSK-2: CIS 12 = AT3004D         |
| USKA | 7144.0   | 2125  | 05 | 04 |     |        | J7D   | 12x120 | 2k6     | PSK-2: CIS 12 = AT3004D         |
| USKA | 7151.0   | 1318  | 12 | 04 |     |        | J7D   | 12x120 | 2k6     | PSK-2: CIS 12 = AT3004D         |
| USKA | 7155.0   | 1613  | 15 | 04 |     |        | A3E   |        |         | BC, unid                        |
| USKA | 7155.0   | 1613  | 15 | 04 |     |        | Noise |        | 10 kHz  | Jammer                          |
| USKA | 7162.0   | 1632  | 04 | 94 | RUS |        | F1B   | 75     | 250     | unid                            |
| USKA | 7165.0   | 1639  | 15 | 04 | ERI |        | A3E   |        |         | Voice of the Broad Masses daily |
| USKA | 7165.0   | 1639  | 15 | 04 |     |        | Noise |        | 10 kHz  | Jammer often                    |
| USKA | 7166.0   | 1749  | 10 | 04 |     |        | J7D   | 12x120 | 2k6     | PSK-2: CIS 12 = AT3004D         |
| USKA | 7176.0   | 1119  | 06 | 04 |     |        | F1B   | 75     | 250     | unid often                      |
| USKA | 7184.0   | 0947  | 08 | 04 |     |        | J7D   | 12x120 | 2k6     | PSK-2: CIS 12 = AT3004 often    |
| USKA | 7185.0   | 1615  | 15 | 04 | ERI |        | A3E   |        |         | Voice of the Broad Masses daily |
| USKA | 7185.0   | 1615  | 15 | 04 |     |        | Noise |        | 10 kHz  | Jammer                          |

| SOC  | kHz                                 | UTC  | DD | MM | ITU | IDENT | MODE  | BD       | SH (BW) | DETAILS  |
|------|-------------------------------------|------|----|----|-----|-------|-------|----------|---------|--|
| USKA | 7195.0                              | 2214 | 08 | 04 |     |       | A1A   |          |         | letters + figures (no ham content)                         |
| USKA | 7200.0                              | 1751 | 10 | 04 |     |       | A3E   |          |         | BC; unid   |
| USKA | 14007.875                           | 0656 | 26 | 04 |     |       | N0N   |          |         | long lasting carrier                                       |
| USKA | 14008.0                             | 0933 | 04 | 04 |     |       | F1B   | 50       | 250     | unid often   |
| USKA | 14011.0                             | 1024 | 14 | 04 |     |       | F1B   | 75       | 250     | unid daily   |
| USKA | 14014.0                             | 0924 | 26 | 04 |     |       | F1B   | 75       | 250     | unid   |
| USKA | 14016.0                             | 0831 | 04 | 04 |     |       | J7D   | 12x120   | 2k6     | PSK-2: CIS 12 = AT3004D often                              |
| USKA | 14018.2                             | 0816 | 25 | 04 |     |       | J3E-U |          | 2k6     | unid   |
| USKA | 14028.0                             | 0834 | 04 | 04 |     |       | F1B   | 75       | 250     | unid daily   |
| USKA | 14050.0                             | 1027 | 27 | 04 |     |       | F1B   | 50       | 200     | unid   |
| USKA | 14052.0                             | 0938 | 08 | 04 |     |       | J7D   |          | 2k6     | CIS-12 idling only (13 carriers)                           |
| USKA | 14052.0                             | 0907 | 24 | 04 |     |       | J7D   | 12x120   | 2k6     | PSK-2: CIS 12 = AT3004D                                    |
| USKA | 14068.0                             | 0926 | 26 | 04 |     |       | F1B   | 100      | 250     | unid   |
| USKA | 14069.0                             | 0842 | 25 | 04 | RUS |       | F1B   | 75       | 500     | unid   |
| USKA | 14091.0                             | 1038 | 06 | 04 |     |       | J7D   |          | 2k6     | CIS-12 idling (carriers only)                              |
| USKA | 14100.0                             | 0936 | 04 | 04 |     |       | F1B   | 44.1     | 250     | unid   |
| USKA | 14122.0                             | 0646 | 26 | 04 |     |       | J7D   | 12x120   | 2k6     | PSK-2: CIS 12 = AT3004D                                    |
| USKA | 14160.0                             | 0935 | 04 | 04 |     |       | F1B   | 75       | 250     | unid   |
| USKA | 14180.0                             | 0756 | 25 | 04 |     |       | F1A   | 75       | 250     | unid almost daily  |
| USKA | 14180.0                             | 1922 | 25 | 04 |     |       | F1B   | 50       | 200     | CIS 50-50  |
| USKA | 14192.0                             | 1753 | 08 | 04 |     |       | F1B   | 50       | 500     | unid   |
| USKA | 14192.0                             | 0633 | 15 | 04 |     |       | F1B   | 50       | 200     | unid   |
| USKA | 14217.875                           | 1035 | 14 | 04 |     |       | F1B   | 40.5     | 500     | CIS 81 in 40.5 Bd Mode                                     |
| USKA | 14240.0                             | 2045 | 22 | 04 |     |       | J7D   | 12x120   | 2k6     | PSK-2: CIS 12 = AT3004D                                    |
| USKA | 14240.0                             | 1041 | 27 | 04 |     |       | F1B   | 50       | 250     | unid   |
| USKA | 14242.0                             | 1501 | 09 | 04 |     |       | J7D   | 12x120   | 2k6     | PSK-2: CIS 12 = AT3004D                                    |
| USKA | 14253.0                             | 1442 | 01 | 04 |     |       | F1B   | 75       | 250     | unid   |
| USKA | 14253.0                             | 1059 | 06 | 04 |     |       | J7D   | 12x120   | 2k6     | PSK-4: CIS 12 = AT3104D often                              |
| USKA | 14265.0                             | 1020 | 14 | 04 |     |       | J7D   | 12x120   | 2k6     | PSK-2: CIS 12 = AT3004D                                    |
| USKA | 14280.0                             | 2145 | 15 | 04 |     |       | FMCW  | 47       | 10 kHz  | OTHR: PD 5.25 s PRI 25s                                    |
| USKA | 14292.0                             | 0734 | 26 | 04 |     |       | F1B   | 100      | 250     | unid   |
| USKA | 14294.0                             | 0712 | 27 | 04 |     |       | J7D   | 12x120   | 2k6     |  |
| USKA | 14300.0                             | 0829 | 11 | 04 |     |       | N0N   |          |         | strong   |
| USKA | 14300.9                             | 0829 | 11 | 04 |     |       |       |          | 107     | pulsing 4-ton Signal<br>PD2s, PRI 3.25s                    |
| USKA | 14306.0                             | 0814 | 06 | 04 |     |       | J7D   | 12x120   | 2k6     | PSK-2: CIS 12 = AT3004D                                    |
| USKA | 14344.7                             | 1621 | 29 | 04 |     |       | PSK-8 | 2400     | 2400    | MIL 188-110A modified, often<br>Bursts PRI 6.75s, PD 2.75s |
| USKA | 18060.0                             | 1108 | 11 | 04 |     |       | FMCW  | 50 pps   | 20 kHz  | OTHR, up to 18070 kHz                                      |
| USKA | 18107.0                             | 1028 | 04 | 04 |     |       | F1B   | 50       | 200     | CIS 35-50 aka BEE aka T600                                 |
| USKA | 18107.0                             | 0639 | 26 | 04 |     |       | F1A   |          | 200     | letters + figures in groups                                |
| USKA | 18175.0                             | 0618 | 15 | 04 |     |       | FMCW  | 50 pps   | 20 kHz  | OTHR, splattering into 17m band                            |
| USKA | 21000.0                             | 1018 | 14 | 04 |     |       | J3E-U |          |         | unid language  |
| USKA | 21001.5                             | 1445 | 01 | 03 | RUS |       | F1B   | 100      | 150     | Jekaterinburg often  |
| USKA | 21001.5                             | 0641 | 15 | 04 |     |       |       |          |         | Vocoder  |
| USKA | 21010.0                             | 0734 | 10 | 04 |     |       | FMCW  | 50 pps   | 20 kHz  | OTHR long lasting, over hours                              |
| USKA | 21010.0                             | 1010 | 14 | 04 |     |       | FMCW  | 25 pps   | 20 kHz  | OTHR   |
| USKA | 21070.0                             | 1007 | 14 | 04 |     |       | FMCW  | 50 pps   | 20 kHz  | OTHR   |
| USKA | 21120.0                             | 1340 | 25 | 04 |     |       | FMCW  | 12.5 pps | 80 kHz  | OTHR PRI 80ms, PD 10ms<br>long lasting, over hours         |
| USKA | 21180.0                             | 1043 | 12 | 04 |     |       | FMCW  | 50 pps   | 20 kHz  | OTHR   |
| USKA | 21190.0                             | 0646 | 15 | 04 |     |       | F1B   | 100      | 1000    | unid   |
| USKA | 21205.0                             | 1635 | 15 | 04 |     |       | FMCW  | 50 pps   | 20 kHz  | OTHR   |
| USKA | 21250.0                             | 1126 | 06 | 04 |     |       | FMCW  | 50 pps   | 20 kHz  | OTHR   |
| USKA | 21415.0                             | 1413 | 26 | 04 |     |       | FMCW  | 25 pps   | 20 kHz  | OTHR   |
| USKA | 21435.0                             | 1310 | 15 | 04 |     |       | FMCW  | 25 pps   | 20 kHz  | OTHR   |
| USKA | 28002.8                             | 1053 | 08 | 04 |     |       | N0N   |          |         | long lasting carrier                                       |
| USKA | 28069.65                            | 1050 | 08 | 04 |     | ME    | A1A   |          |         | fishery buoy   |
| USKA | 28085.5                             | 1042 | 08 | 04 |     |       | A3E   |          |         | Portugese  |
| USKA | 28105.0                             | 1048 | 08 | 04 |     |       | A3E   |          |         | unid language  |
| USKA | 28185.0                             | 1055 | 08 | 04 |     |       | A3E   |          |         | unid language  |
| USKA | 28305.0                             | 1056 | 08 | 04 |     |       | A3E   |          |         | Portugese  |
| USKA | 28684.865<br>28686.100<br>28689.075 | 0853 | 20 | 04 |     |       | N0N   |          |         | unid signal (not local)                                    |
| USKA | 29000.0                             | 0857 | 20 | 04 |     |       | FMCW  | 50 pps   | 20 kHz  | OTHR   |

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

| SOC   | kHz     | UTC   | DD | MM | ITU | IDENT | MODE | SH   | DETAILS                                |
|-------|---------|-------|----|----|-----|-------|------|------|--|
| VERON | 1876,0  | 19.19 | 8  | 4  | UK  |       | PSK  |      | Stanag 4285-daily                      |
| VERON | 3553,0  | vt    | vd | 4  | TUR |       | PSK  | 2400 | Stanag 4285 MIL nr Ankara              |
| VERON | 3732,0  | 18.50 | 12 | 4  |     | OFDM  |      | 2400 | OFDM                                   |
| VERON | 3756,0  | 18.55 | 12 | 4  | UKR | PIP   | A3E  |      | PIP 10-tones                           |
| VERON | 7008,0  | 19.16 | 7  | 4  | RUS | UiPtr | F1B  | 250  | Ptr                                    |
| VERON | 7030,0  | 18.19 | 6  | 4  |     | UiPTR | F1B  |      | Ptr                                    |
| VERON | 7036,0  | 18.12 | 10 | 4  |     | UiPTR | F1B  |      | Revs                                   |
| VERON | 7038,7  | vt    | vd | 4  | UKR | D     | A1A  |      | D-beacon                               |
| VERON | 7038,9  | vt    | vd | 4  | RUS | S     | A1A  |      | S-beacon                               |
| VERON | 7039,0  | vt    | vd | 4  | RUS | C     | A1A  |      | C-beacon                               |
| VERON | 7039,2  | 18.52 | vd | 4  | RUS | F     | A1A  |      | 19.58 utc, beacon, 3 days              |
| VERON | 7041,0  | 16.52 | 1  | 4  |     | 4UOG  | A1A  |      | to PZQH, P6LW: calls                   |
| VERON | 7041,0  | 16.32 | 6  | 4  |     | 4UOG  | A1A  |      | to 6P2Z, LEEP,ZLTE,PZQH,P6LW, calls    |
| VERON | 7041,0  | 15.09 | 7  | 4  |     | 4UOG  | A1A  |      | to IO5I:QTC 980 197 1846 980 056=5BL   |
| VERON | 7041,0  | 16.30 | 8  | 4  |     | 4UOG  | A1A  |      | to 6P2Z, LEEP,ZLTE,PZQH,P6LW, calls    |
| VERON | 7041,0  | 17.10 | 8  | 4  |     | 4UOG  | A1A  |      | to 6P2Z:QTC ZOA K                      |
| VERON | 7041,0  | 17.12 | 8  | 4  |     | 4UOG  | A1A  |      | 4UOG 270 20 82050 270=ZOA 880 5BL      |
| VERON | 7041,0  | 16.58 | 9  | 4  |     | 4UOG  | A1A  |      | to 6P2Z, LEEP,ZLTE,PZQH,P6LW, calls    |
| VERON | 7041,0  | 17.02 | 9  | 4  |     | XWR8  | A1A  |      | XWR8 ZVJ K (many times)                |
| VERON | 7041,0  | 15.01 | 11 | 4  |     | HAPK  | A1A  |      | to PRNW:QBE QYT6 k/ R K                |
| VERON | 7041,0  | 19.30 | 11 | 4  |     | BMPV  | A1A  |      | to F2NM,PRNW,V7PK, calls, proc         |
| VERON | 7041,0  | 13.30 | 12 | 4  |     | BMPV  | A1A  |      | to 7BLM: R 234 ? K                     |
| VERON | 7041,0  | 13.31 | 12 | 4  |     | BMPV  | A1A  |      | to ZQHO,F2NM,PRNW,V7PK, proc           |
| VERON | 7041,0  | 13.30 | 13 | 4  |     | HAPK  | A1A  |      | tp PRNW:ZZQ ZHG ZSN QYT9 K             |
| VERON | 7041,0  | 16.35 | 13 | 4  |     | BMPV  | A1A  |      | 7BLM,ZQHO,F2NM,PRNW,V7PK, calls        |
| VERON | 7041,0  | 19.30 | 17 | 4  |     | BMPV  | A1A  |      | to F2NM,PRNW,V7PK, calls, proc         |
| VERON | 7041,0  | 16.30 | 18 | 4  |     | BMPV  | A1A  |      | 7BLM,ZQHO,F2NM,PRNW,V7PK, calls        |
| VERON | 7041,0  | 16.37 | 19 | 4  |     | BMPV  | A1A  |      | 7BLM,ZQHO,F2NM,PRNW,V7PK, calls        |
| VERON | 7041,0  | 13.32 | 20 | 4  |     | BMPV  | A1A  |      | to ZQHD,F2NM,PRNW,V7PK, proc           |
| VERON | 7041,0  | 15.09 | 21 | 4  |     | 2XO1  | A1A  |      | to XRVH, QTC K                         |
| VERON | 7041,0  | 15.11 | 21 | 4  |     | 2XO1  | A1A  |      | 2XO1, 690 22 21 1902 690=173=5BL 808 k |
| VERON | 7041,0  | 16.32 | 21 | 4  |     | 2XO1  | A1A  |      | KP3O,XRVH,H6KN,BOD5,8JNV,ca lls        |
| VERON | 7041,0  | 19.12 | 24 | 4  |     | XWR8  | A1A  |      | XWR8,QTC ZJK K (many times)            |
| VERON | 7041,0  | 19.15 | 24 | 4  |     | 2XO1  | A1A  |      | 2XO1,486 1724 2304 486=ZJK205= 5BL     |
| VERON | 7041,0  | 19.22 | 24 | 4  |     | 2XO1  | A1A  |      | KP3O,XRVH,H6KN,BOD5,8JNV,ca lls        |
| VERON | 7041,0  | 19.03 | 28 | 4  |     | XWR8  | A1A  |      | XWR8 ZVJ K (many times)                |
| VERON | 7041,0  | 19.09 | 28 | 4  |     | 2XO1  | A1A  |      | KP3O,XRVH,H6KN,BOD5,8JNV,ca lls        |
| VERON | 7041,0  | 17.15 | 26 | 4  |     | 2XO1  | A1A  |      | to BOD5: QBE QYT9 K                    |
| VERON | 7046,0  | 18.16 | 6  | 4  | CIS | BWPZ  | A1A  |      | GJML de BWPZ QSA no QSY 74263 k        |
| VERON | 7054,0  | 04.55 | vd | 4  | RUS | UiPtr | F1B  | 250  | Ptr/revs, 11 days                      |
| VERON | 7057,5  | 07.28 | 29 | 4  | ?   | LKFQ  | A1A  |      | 5F, proc                               |
| VERON | 7057,5  | 08.13 | 29 | 4  |     | LKFQ  | A1A  |      | to A8TG:807 4629 1204 807 ZNO 565 328  |
| VERON | 7057,5  | 08.22 | 29 | 4  |     | FCGF  | A1A  |      | FCGF407 3629 1211 407 ZOG 565 328etc   |
| VERON | 7131,0  | 18.38 | 29 | 4  | RUS | UiMUX | PSK  |      | 12 MPSK AT 3004-D                      |
| VERON | 7179,0  | 19.04 | 7  | 4  |     | UiMUX | PSK  |      | 12 MPSK AT 3004-D                      |
| VERON | 7188,0  | 07.58 | 22 | 4  |     | UiPtr | F1B  | 250  | Ptr                                    |
| VERON | 10110,0 | 19.10 | 18 | 4  | TUR | UiBC  | A3E  |      | speech Turkish, daily in the evening   |
| VERON | 14004,0 | 08.34 | 8  | 4  |     | UiPTR | F1B  |      | Ptr                                    |

| SOC   | kHz     | UTC   | DD  | MM | ITU | IDENT | MODE  | SH  | DETAILS                            |
|-------|---------|-------|-----|----|-----|-------|-------|-----|------------------------------------|
| VERON | 14008.0 | 09.30 | 3   | 4  |     | UiPtr | A     |     | Ptr, also 10/4, 28/4,              |
| VERON | 14008.0 | 13.08 | 10  | 4  | CIS | UiPTR | F1B   |     | Carrier/Revs/Ptr                   |
| VERON | 14016.0 | 08.15 | 24  | 4  | RUS | UiMUX | PSK   |     | 12 MPSK AT 3004-D, nr Moscow       |
| VERON | 14028.0 | 09.17 | 14  | 4  |     | UiPtr | F1B   | 250 | Ptr, also 28/4,also 18/4           |
| VERON | 14028.0 | 07.45 | 28  | 4  |     | UiPtr | F1B   | 250 | Ptr constantly until 1.40 utc      |
| VERON | 14051.0 | 09.38 | 24  | 4  |     | UiMUX | PSK   |     | 12 MPSK AT 3004-D                  |
| VERON | 14103.5 | 07.31 | 2   | 4  | NAf | UiILL | J3e-L |     | French, male voices                |
| VERON | 14108.0 | 0530  | dly | 4  |     | A1A   |       |     | 5 letter groups – cyrillic letters |
| VERON | 14118.0 | 0530  | dly | 4  |     | A1A   |       |     | 5 letter groups – cyrillic letters |
| VERON | 14119.0 | 09.15 | 5   | 4  |     | UiPtr | F1B   | 250 | Ptr/Revs,                          |
| VERON | 14121.0 | 18.15 | 12  | 4  | E   | UiILL | J3e-U |     | Spanish male/female                |
| VERON | 14140.4 | 18.56 | 9   | 4  |     | UiILL | J3e-U |     | Maroc fishery                      |
| VERON | 14160.0 | 13.50 | 14  | 4  |     | UiPtr | F1B   | 250 | Ptr                                |
| VERON | 14180.0 | 09.44 | 13  | 4  |     | UiPtr | F1B   | 250 | Ptr/Revs                           |
| VERON | 14192.0 | 07.00 | 1   | 4  | RUS | UiPtr | F1B   | 500 | Revs                               |
| VERON | 14240.0 | 07.50 | 22  | 4  |     | UiPtr | F1B   | 250 | Ptr                                |
| VERON | 14252.0 | 08.45 | 19  | 4  |     | UiMUX | PSK   |     | 12 MPSK AT 3004-D                  |
| VERON | 14305.0 | 08.34 | 6   | 4  |     | UiMUX | PSK   |     | 12 MPSK AT 3004-D                  |
| VERON | 18081.0 | 18.44 | 29  | 4  |     | UiCAR | NON   |     | carrier, S-9                       |
| VERON | 18090.0 | 10.25 | 23  | 4  |     | OTHR  | PON   |     | radar,                             |
| VERON | 18107.0 | vt    | vd  | 4  |     | UiPTR | F1B   |     | Revs/Ptr                           |
| VERON | 18107.0 | 09.06 | 8   | 4  | RUS | RDL   | F1A   |     | UUU RDL 95491 49097 k (legal)      |
| VERON | 18107.0 | 18.15 | 14  | 4  |     | UiCW  | F1A   |     | 5F                                 |
| VERON | 18107.0 | 11.04 | 15  | 4  | RUS | RDL   | F1A   |     | RDL 24600 00336 k                  |
| VERON | 21001.5 | 09.35 | 5   | 4  | RUS | UiPtr | F1B   | 150 | Ptr, also 13/4,22/4,25/4,28/4,     |
| VERON | 21008.0 | 09.31 | 10  | 4  | CYP | OTHR  | PON   |     | radar, during many hours           |
| VERON | 21053.0 | 09.07 | 22  | 4  |     | OTHR  | PON   |     | radar, wide 21053-21042 KHz        |
| VERON | 21116.0 | 09.54 | 1   | 4  |     | OTHR  | PON   |     | radar wide 21153-21174 KHz         |
| VERON | 21120.0 | 15.10 | 25  | 4  |     | OTHR  | PSK   |     | radar, 21075-21160 KHz             |

# IARUMS Region 1

Many thanks for your interest!

**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)

compiled and published by DK2OM