



# Monitoring System

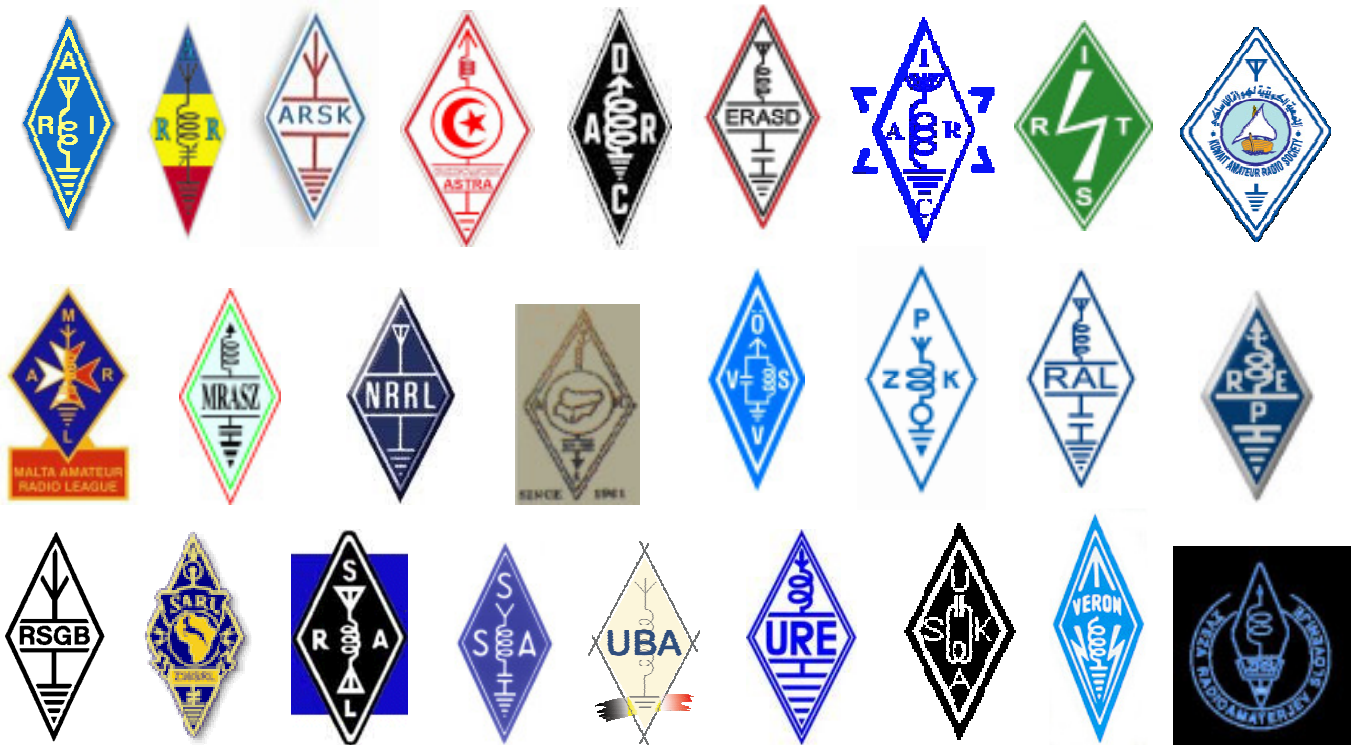
DK2OM – Wolf Hadel  
Co-ordinator of IARUMS Region 1  
Editor of the Newsletter

HB9CET – Peter Jost  
Vice Co-ordinator of IARUMS Region 1

The monthly newsletter for Region 1

## June 2013

### The 26 members of the IARUMS Region 1 Monitoring Team:



### Acknowledgements

++ ARI: DH7SA – Salvatore ++ ARSK: 5Z4NU - Ted ++ ASTRA: DL1BDF – Mustapha ++ DARC: DK2OM – Wolf ++  
++ ERASD: SU1SA – Sayed ++ IARC: 4Z1AB – Amos ++ IRTS: E15DD - Steve ++ KARS: 9K2RR – Faisal ++  
++ MARL: 9H1M – Dominic ++ MRASZ: HA7PL - Laci ++ NARS: 5N9AYM – Yusuf ++ NRRL: LA4EU – Hans Arne ++  
++ OEVSV: OE3GSA – Gerd ++ PZK: SP3SUZ – Wladyslaw ++ RAL: OD5RI – Riri ++ REP: CT4AN – Jose ++  
++ RSGB: G4BOH - Chris ++ SARL: ZS1FCS - Fred ++ SRAL: OH2BLU - Pekka ++ SSA – Ullmar ++ UBA: ON4VJ - Johny  
++ URE: EA5DY - Salvador ++ USKA: HB9CET - Peter ++ VERON: PA2GRU - Dick ++ ZRS: S56ZDB – Darko ++  
++ G3VZV – Graham (satellite) ++ TG9ADV – Jorge (Co-ordinator Region 2) ++ VK3MV – Peter (Co-ordinator Region 3) ++  
++ DF8FE – (Webmaster assis.) ++ DL8AAM (ALE) ++ DJ7KG (BUOYS) ++ DF5SX (BC) ++ DARC (server support) ++  
++ OD5TE (Hani) ++ VE6SH – Tim (IARU President) ++ PB2T – Hans (IARU R1 President) ++ 9A5W - Nikola (EC-IARU-R1  
++ PTTs: German (BNetzA), BAKOM (Switzerland), OFCOM (UK) ++ Dutch AT ++ SK6AW – DX-Cluster ++ YO9RIJ - Petrica

Part 1: News and infos

Part 2: Detailed reports of the national co-ordinators

# Part 1: News and Infos

## 1. 7105 kHz – Sound of Hope (Taiwan)

Sound of Hope Taiwan seems to have left 7105. After a complaint by the German BNetzA I checked the QRG several times and also via remote Japan and Australia. I did not find SOH again. Many thanks to the German BNetzA for the official complaint.

## 2. Radio Hargaysa – Somalia still on 7120 kHz

Someone told me, that the fellows are not able to tune the antenna and the transmitter on another frequency.

## 3. Iran OTH radar daily on 10 m in June 2013 – no change as expected

The Iran Radar was daily active on 26000 – 30000 kHz transmitting bursts with 307 and 870 sps, 60 kHz wide and often jumping. The splatters covered 700 kHz and more. An earlier complaint by the Swiss BAKOM was not regarded. **The German BNetzA filed a complaint, too – no change.**

## 4. Ukraine military on 21 MHz – still active

Ukraine military used 21058 – 21060 and 21062 kHz for digital traffic daily. Details: 12 x 120 Bd, BPSK, system AT3004D, location: Odessa. The system was daily active in June.

## 5. Driftnet fishery buoys on 28000 – 28500 kHz

We found many driftnet buoys transmitting in A1A (tone or rising tone with CW-ident). Bearings: Atlantic Ocean west of Portugal, Spain and Adriatic Sea.

**Buoy “Y” - recording by DK2OM:** <http://www.iarums-r1.org/iarums/sound/y.wav>

**Please read the monthly buoy reports of DJ7KG:** <http://www.iarums-r1.org/iarums/buoys.pdf>

## 6. Marathon-talk on 14000 kHz

I observed a Sinhala fishery net on 14000.0 kHz in USB on June 23<sup>rd</sup> from 1400 – 1800 utc. Except my test transmissions nobody tried to defend this frequency.

## 7. CIS pirates on 80 m – still active

I found again CIS pirates transmitting around 3501 kHz transmitting in AM on June 29<sup>th</sup>. The signals were heard with S9 !!! I was not amused.

## 8. Rudolf Horkheimer Price at the Hamradio 2013

The DARC President DL7ATE – Steffen Schoeppe – awarded DK2OM the Rudolf-Horkheimer Price. Many thanks and grateful words to all our team members, contributors and involved PTTs for the great assistance in defending our bands. Many thanks to the **IARU**, **DARC** and the amateur radio magazine “**Funkamateuer**” for the excellent cooperation and help. Our bands cannot be saved by one person only. Cooperation and teamwork is necessary. In the meantime we have many examples for our excellent worldwide cooperation.

## 9. Greetings from DJ9KR - Uli

DJ9KR – Uli – was not able to visit the fair due to health problems. But now he sends greetings to all participants and friends on this way. Many Hams told me to send greetings to him. I tried it as well as possible.

## 10. Hamradio 2013 at Friedrichshafen – a small gallery



HB9CET, DL8MDW and DK4VW at the stand of the DARC HF-Department. HB9CET hold an excellent lecture about digital signals and their classification.



DK0WCY is a very important scientific beacon system! DK4VW (Ulli) is the leader of the DARC HF-Department and responsible to DK0WCY since 30 years (besides other Hams, too).



Mr. E. Grim (German BNetzA) explained how the official intruder complaints are handled.



DL7ATE – Steffen – DARC President – and two important BNetzA officers are listening to the lecture of Mr. E. Grim.



DK8KW – Holger – playing on the fiddle.



HA7PL – Laci – very active in our IARUMS Region 1 team since many years



VE6SH – Tim Ellam – IARU President and G3PSM  
Colin Thomas – RSGB President



DL7ATE – DARC President and DK2OM – award ceremony

- 12. Homepage IARU Region 1
- Homepage IARUMS Region 1
- Homepage IARUMS Region 2
- Homepage IARUMS Region 3
- Intruderlogger Region 1

- <http://www.iaru-r1.org/>
- <http://www.iarums-r1.org>
- <http://www.iaru-r2.org/>
- <http://www.iaru-r3.org/ms/>
- <http://peditio.net/intruder/bluechat.cgi>

**ITU-Monitoring Reports:**

<http://www.itu.int/ITU-R/index.asp?category=terrestrial&rlink=terrestrial-monitoring&lang=en>

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

DD = day \*\*\* MM = month \*\*\* dly = daily \*\*\* vt = various times \*\*\* vd = various days \*\*\* BD = Baud \*\*\* SH = shift \*\*\* SP = spacing \*\*\* Mode = mode of transmission \*\*\* A3E = AM \*\*\* A1A = CW \*\*\* J3E-U = USB \*\*\* J3E-L = LSB \*\*\* FSK (F1B) = frequency shift keying \*\*\* PSK = phase shift keying \*\*\* OFDM = orthogonal frequency division multiplex  
**ALE (MIL-188-141A)** = automatic link establishment \*\*\* MUX = multiplex \*\*\* Ui (unid) = unidentified \*\*\* Illicit = illegal \*\*\* UiILL = unidentified illegal \*\*\* BC = broadcast \*\*\* MIL = military \*\*\* PTR = printer \*\*\* NGO = non governmental organization \*\*\* ITU = ITU country abbreviation \*\*\* PRC = People's Republic of China \*\*\* PLA = People's Liberation Army \*\*\* MFA = Ministry of Foreign Affairs \*\*\* MOI = Ministry of Interior \*\*\* MOPO = Ministry of Public Order \*\*\* IARUMS = IARU Monitoring System \*\*\* UTC = Universal Time Coordinated \*\*\* pps = pulses per second (earlier radar systems) \*\*\* sps = sweeps/sec (radar systems) \*\*\* FMCW = frequency modulated continuous wave (OTH and coastal Radars)  
**5BL** = cyrillic 5 lettergroups

### ARSK MONITORING OVERVIEW FOR JUNE 2013

Few intruders were heard this month, but the broadcasts in the daytime in Swahili, English and Luganda on 7195 kHz which are apparently from Radio Uganda continued unabated in spite of complaints. Radio Hargeisha continued on 7120 kHz with a very strong signal. Broadcasts from Khartoum, VOBM from Eritrea and Radio Ethiopia from Addis Ababa appear to have ceased operating. Possibly military nets were heard on 7000 and 7008 kHz. Again, identification was not possible.

E.H.M. Alleyne, 5Z4NU

\*\*\*\*\*

#### ARSK – Kenya – 5Z4NU (Ted)

| H'd by | kHz    | UTC                   | dd  | mm | UTC         | Identity | Mode | Details  |
|--------|--------|-----------------------|-----|----|-------------|----------|------|--|
| ARSK   | 7000.0 | vt                    | *   | 6  | East Africa | UiPHONE  | J3E  | Military? * 4,5,19,  |
| ARSK   | 7007.0 | 0930                  | 25  | 6  | East Africa | unknown  | J3Eu | Vernacular.  |
| ARSK   | 7009.0 | 0800                  | 22  | 6  | ?           | Unknown  | J3Eu | Possibly central Africa.   |
| ARSK   | 7075.0 | 0558                  | 16  | 6  | ?           | Unknown  | J3E  | unknown language.  |
| ARSK   | 7090.0 | 0710                  | 5   | 6  | ?           | ?        | J3E  | Message traffic in phonetics. NGO?   |
| ARSK   | 7175.0 |                       |     |    | ERI?        | UiBC     | A3E  | VoBM, Eritrea?   |
| ARSK   | 7195.0 | 0650 to mid-afternoon | dly | 6  | UGA         | Kampala  | A3E  | B'cast in KiSwahili, Koran recitations, music, Luganda & English, to about 1200Z or later. |

#### DARC 1 – Germany – DG0JBJ (Mario)

DG0JBJ (Mario) observed 21 OTH radars on 20 m, 23 OTH radars on 15 m and 21 OTH radars on 10 m (not included the numerous jumping Iran OTH radar emissions) in June 2013.

#### DARC 2 – Germany - DK2OM (Wolf)

FSK transmissions -> center frequency between mark and space

PSK transmissions -> center frequency - ALE (MIL188-141A) -> USB frequency

exclusive bands -> black – shared bands -> blue - voice traffic -> green - BC -> red

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

| DK2OM | kHz    | UTC  | DD  | MM | ITU | IDENT | MODE       | BD   | SH/SP | DETAILS  |
|-------|--------|------|-----|----|-----|-------|------------|------|-------|--|
| DK2OM | 1812,0 | 1923 | 20  | 06 | POL |       | USB<br>LSB |      |       | Polish "PIP" – 14 tones – hyperbolic radio navigation system – BRAS-3/RS-10 - Polish Baltic coast - POL Navy – legal operation (ITU footnote) – daily, all day |
| DK2OM | 1881,4 | vt   | dly | 06 | F   |       | QPSK       | 100  | 100   | BC-PSK – radio navigation - Nantes   |
| DK2OM | 1896,5 | ady  | dly | 06 | D   |       | PSK8       | 2400 | 2400  | Stanag4285 – 600 bps long – German Navy  |
| DK2OM | 3500,0 | 2034 | 07  | 06 | HOL |       | USB        |      |       | Dutch fishery  |
| DK2OM | 3501,2 | 1954 | 29  | 06 | CIS |       | A3E        |      |       | CIS pirates, unstable carrier  |
| DK2OM | 3501,7 | 2127 | 18  | 06 | CIS |       | A3E        |      |       | CIS pirates, unstable carrier  |

| DK2OM | kHz    | UTC   | DD  | MM | ITU | IDENT  | MODE         | BD         | SH/SP        | DETAILS  |
|-------|--------|-------|-----|----|-----|--------|--------------|------------|--------------|--|
| DK2OM | 3502,5 | 2000  | 29  | 06 | CIS |        | A3E          |            |              | CIS pirates, unstable carrier  |
| DK2OM | 3503,5 | vt    | dly | 06 | G   | no ITU | FSK8         | 125        | 1750         | ALE – “XSS” “XPU” “XJR” – British MIL Tascomm – vt, daily - legal!   |
| DK2OM | 3504,1 | 2128  | 18  | 06 | CIS |        | A3E          |            |              | CIS pirates, unstable carrier  |
| DK2OM | 3505,0 | 2130  | 18  | 06 | CIS |        | A3E          |            |              | CIS pirates, unstable carrier  |
| DK2OM | 3506,8 | 21306 | 03  | 06 | HOL |        | PSK4         | 75         | 2300         | LINK11-CLEW - Netherlands coastal region   |
| DK2OM | 3510,0 | 1922  | 25  | 06 | HOL |        | USB          |            |              | Dutch fishery  |
| DK2OM | 3510,8 | 2128  | 30  | 06 | CIS |        | A3E          |            |              | CIS pirates, unstable carrier  |
| DK2OM | 3520,0 | 1956  | 01  | 06 | RUS |        | FMCW         |            | 50k<br>45k   | OTHR – 43.5 sps – 3520 – 3570 kHz – also: 3810 – 3855 kHz - Makhachkala – Caspian Sea  |
| DK2OM | 3530,0 | 1850  | 02  | 06 | RUS |        | FMCW         |            | 45k          | OTHR – 43.5 sps – 3530 – 3575 kHz - also: 3810 – 3850 kHz – Makhachkala – Caspian Sea  |
| DK2OM | 3531,0 | 2136  | 02  | 06 | RUS | REA4   | NON          |            |              | carrier with spurious emissions, RUS airforce Moscow, ident: 2040 utc - daily  |
| DK2OM | 3535,0 | 1937  | 06  | 06 | RUS |        | FMCW         |            | 35k<br>40k   | OTHR – 43.5 sps – 3535 – 3570 kHz – also: 3810 – 3850 kHz - Makhachkala – Caspian Sea  |
| DK2OM | 3535,0 | 1755  | 17  | 06 | HOL |        | USB          |            |              | Dutch fishery  |
| DK2OM | 3540,6 | 2145  | 06  | 06 | CIS |        | A3E          |            |              | CIS pirates, unstable carrier  |
| DK2OM | 3550,0 | 0600  | dly | 06 | F   |        | A3E          |            |              | French amateurs not respecting the bandplans   |
| DK2OM | 3550,0 | vt    | vd  | 06 | ALG |        | FSK8         | 125        | 1750         | ALE, “IU50” “IU52” “FN50”  |
| DK2OM | 3550,0 | 2030  | 18  | 06 | E   |        | USB          |            |              | Spanish fishery  |
| DK2OM | 3553,8 | ady   | dly | 06 | TUR |        | PSK8         | 2400       | 2400         | Stanag4285 – TUR MIL - Ankara  |
| DK2OM | 3555,0 | 2037  | 18  | 06 | E   |        | USB          |            |              | Spanish fishery  |
| DK2OM | 3560,5 | 1922  | 10  | 06 | RUS |        | PSK2A        | 120        | 2600         | AT3004D -  |
| DK2OM | 3562,0 | 2024  | 13  | 06 | RUS |        | PSK2A        | 120        | 2600         | AT3004D – Rostov na Donu   |
| DK2OM | 3570,0 | 1929  | 04  | 05 | RUS |        | PSK2A        | 120        | 2600         | AT3004D - Moscow   |
| DK2OM | 3572,0 | 2140  | 14  | 06 | RUS |        | F1B          | 75         | 250          | area of Velikiye Luki  |
| DK2OM | 3575,0 | 1833  | 09  | 06 | RUS |        | FMCW         |            | 40k          | OTHR – 43.5 sps – 3575 – 3615 kHz – Makhachkala – Caspian Sea – also: 3785 – 3820 kHz  |
| DK2OM | 3580,0 | 2123  | 05  | 06 | RUS |        | PSK2A        | 120        | 2600         | AT3004D – Kaliningrad – HAM PSK31 disturbed!   |
| DK2OM | 3580,0 | 2030  | 07  | 06 | RUS |        | FMCW         |            | 35k<br>35k   | OTHR – 41.67 – 43.48 and 45.45 sps – 3580 – 3615 kHz – also: 3785 – 3820 kHz - Makhachkala Caspian Sea – and on 12.06.2013 – at 1740 utc |
| DK2OM | 3585,0 | 2000  | dly | 06 | TWN | HLL    | FIC          |            |              | 120 rpm, IOC 576, Wxfax - daily legal!   |
| DK2OM | 3585,0 | 1732  | 08  | 06 | RUS |        | FMCW         |            | 30k<br>35k   | OTHR – 43.5 sps – 3580 – 3610 kHz – also: 3785 – 3820 kHz - Makhachkala – Caspian Sea  |
| DK2OM | 3587,0 | vt    | vd  | 06 | E   | no ITU | FSK8         | 125        | 1750         | ALE, “TVV” “TXX” - Spanish Guardia Civil   |
| DK2OM | 3593,0 | 1818  | 20  | 06 | RUS |        | FMCW         |            | 43k          | OTHR – 43.5 sps – 3593 – 3636 kHz – Makhachkala – Caspian Sea  |
| DK2OM | 3595,0 | vt    | dly | 06 | D   |        | FSK8         | 125        | 1750         | ALE – German customs   |
| DK2OM | 3596,0 | 1857  | 10  | 06 | RUS |        | PSK2A        | 120        | 2600         | AT3004D – Kaliningrad – also: 11.06.2013 at 2014 utc   |
| DK2OM | 3597,0 | vt    | dly | 06 | D   |        | PSK8         | 2400       | 2400         | Link11 SLEW  |
| DK2OM | 3617,0 | vt    | dly | 06 | HRV | 9A5EX  | FSK8         | 125        | 1750         | ALE, “9A5EX” – HAM-ALE - just for info   |
| DK2OM | 3622,5 | 1800  | dly | 06 | J   | JMH    | FIC          |            |              | Tokyo Meteo – 120 rpm – IOC576 – daily, legal!!!   |
| DK2OM | 3700,0 | 1816  | 26  | 06 | RUS |        | FMCW         |            | 60k          | OTHR – 87 sps – 3700 – 3760 kHz – Makhachkala – Caspian Sea  |
| DK2OM | 3744,7 | 2012  | 16  | 06 | ISR |        | PSK4<br>PSK8 | 75<br>2400 | 2900<br>2400 | hybrid modem – ISR Navy – PSK4 parallel and PSK8 serial  |

| DK2OM | kHz     | UTC  | DD  | MM | ITU | IDENT  | MODE  | BD   | SH/SP | DETAILS  |
|-------|---------|------|-----|----|-----|--------|-------|------|-------|--|
| DK2OM | 3747,5  | 2147 | 12  | 06 | RUS |        | PSK2A | 120  | 2600  | AT3004D - Kaliningrad  |
| DK2OM | 3756,0  | ady  | dly | 06 | UKR |        | A3E   |      |       | UKR – pip – 14 tones – hyperbolic navigation system – BRAS-2/RS-10                           |
| DK2OM | 3761,5  | vt   | vd  | 06 | POL |        | FSK8  | 125  | 1750  | ALE, “NI9” “PL7” “AB2” – Polish MIL  |
| DK2OM | 3769,5  | 2018 | 07  | 06 | RUS |        | PSK2A | 120  | 2600  | AT3004D - Kaliningrad  |
| DK2OM | 3772,0  | 2018 | 14  | 06 | RUS |        | FMCW  |      | 62k   | OTHR – 43.5 sps – 3772 – 3834 kHz – Makhachkala – Caspian Sea – also: 15.06.2013 at 2033 utc |
| DK2OM | 3774,0  | 0800 | 05  | 06 | E   | names  | USB   |      |       | Spanish fishery with vocoder CRY2001 – various days  |
| DK2OM | 3782,0  | 2100 | 10  | 06 | POR | CTP    | F1B   | 75   | 850   | POR Navy headquarter Lisbon – disturbed by Russian OTH radar                                 |
| DK2OM | 3791,0  | vt   | vd  | 06 | D   | DK0ESD | FSK8  | 125  | 1750  | ALE, “DK0ESD” – just for info!   |
| DK2OM | 7000,0  | 1710 | 10  | 06 | F   |        | USB   |      |       | pirates in French voice, engine noise audible  |
| DK2OM | 7000,0  | 2110 | 06  | 06 | I   |        | LSB   |      |       | Italian pirates  |
| DK2OM | 7000,8  | 1325 | 11  | 06 | I   |        | PSK8B | 2400 | 2400  | MIL-188-110A – Rome, Italy   |
| DK2OM | 7005,0  | 1900 | 22  | 06 | CHN |        | FMCW  |      | 50k   | Chinese OTH Radar – 43.5 sps – 6955 – 7005 kHz   |
| DK2OM | 7008,0  | 0614 | 03  | 06 | RUS |        | F1B   | 75   | 250   | St. Peterburg  |
| DK2OM | 7008,0  | 2130 | 06  | 06 | RUS |        | F1B   | 50   | 200   | Engels   |
| DK2OM | 7008,0  | 1315 | 20  | 06 | RUS |        | F1B   | 75   | 250   | east of Moscow   |
| DK2OM | 7008,0  | 0900 | 21  | 06 | RUS |        | F1B   | 50   | 250   | east of Moscow   |
| DK2OM | 7010,0  | 1742 | 12  | 06 | CHN |        | FMCW  |      | 30k   | Chinese OTH radar – 43.5 sps – 7010 – 7040 kHz and 7130 – 7160 kHz                           |
| DK2OM | 7016,0  | 0617 | 24  | 06 | RUS |        | F1B   | 75   | 250   | Volgograd  |
| DK2OM | 7022,0  | 2130 | 05  | 06 | RUS |        | PSK2A | 120  | 2600  | AT3004D - Kaliningrad  |
| DK2OM | 7031,5  | 2015 | 13  | 06 | UKR |        | F1B   | 40.5 | 250   | system Frost1 – Odessa - also: 14.06.2013 at 0540 utc  |
| DK2OM | 7038,7  | ady  | dly | 06 | UKR | D      | A1A   |      |       | Cluster beacon – Sevastopol RUS Navy – “RCV”   |
| DK2OM | 7038,8  | ---  | --- | 06 | RUS | P      | A1A   |      |       | Cluster beacon – Kaliningrad RUS Navy – “RMP”  |
| DK2OM | 7038,9  | ---  | --- | 06 | RUS | S      | A1A   |      |       | Cluster beacon – Severomorsk RUS Navy – „RIT“  |
| DK2OM | 7039,0  | ---  | --- | 06 | RUS | C      | A1A   |      |       | Cluster beacon - Moscow RUS Navy - “RIW”   |
| DK2OM | 7039,1  | ---  | --- | 06 | KGZ | A      | A1A   |      |       | Cluster beacon – Bishkek RUS Navy – “RJH25”  |
| DK2OM | 7039,2  | ady  | dly | 06 | RUS | F      | A1A   |      |       | Cluster beacon - Vladivostok RUS Navy - “RJS”  |
| DK2OM | 7039,3  | ady  | dly | 06 | RUS | K      | A1A   |      |       | Cluster beacon - Petropavlovsk Kamchatskiy - RUS Navy - Pacific fleet - “RCC”                |
| DK2OM | 7039,4  | ady  | dly | 06 | RUS | M      | A1A   |      |       | Cluster beacon – Magadan RUS Navy – „RTS“  |
| DK2OM | 7039,95 | ady  | dly | 06 | I   | IZ3DVW | A1A   |      |       | IZ3DVW – uncoordinated beacon, daily, all day  |
| DK2OM | 7040,0  | vt   | dly | 06 | F   | F6BAZ  | FSK8  | 125  | 1750  | ALE, “F6BAZ” – just for info   |
| DK2OM | 7040,0  | 1916 | 04  | 06 | CHN |        | FMCW  |      | 30k   | Chinese OTH Radar – 43.5 sps – 7040 – 7070 kHz   |
| DK2OM | 7040,5  | vt   | dly | 06 | HRV |        | FSK8  | 125  | 1750  | ALE, “9A5EX” “9A0ALE” – just for info  |
| DK2OM | 7043,8  | 1750 | 24  | 06 |     |        | PSK8  | 2400 | 2400  | Link11 - SLEW  |
| DK2OM | 7047,0  | 2000 | 13  | 06 | UKR |        | PSK2A | 120  | 2600  | AT3004D – Sevastopol – also: 17.06.2013 at 2130 utc  |
| DK2OM | 7049,5  | vt   | dly | 06 | HRV | 9A0ALE | FSK8  | 1250 | 1750  | Amateur ALE, just for info!  |
| DK2OM | 7051,7  | 0922 | 25  | 06 | RUS |        | F1B   | 125  | 200   | 7051.680 kHz – F1B with space signal during the gaps   |
| DK2OM | 7054,0  | ---  | --- | 06 | RUS |        | F1B   | 50   | 200   | CIS50-50 - RUS Navy Moscow – <b>not active</b>   |
| DK2OM | 7055,5  | vt   | dly | 06 | TUR |        | FSK8  | 125  | 1750  | ALE, “145” “168” – NE of Turkey – area of Black Sea  |
| DK2OM | 7055,5  | 2305 | 23  | 06 | TUR |        | FSK8  | 125  | 1750  | ALE, “111” - border Turkey –   |

| DK2OM | kHz     | UTC  | DD  | MM | ITU          | IDENT  | MODE  | BD   | SH/SP | DETAILS  |
|-------|---------|------|-----|----|--------------|--------|-------|------|-------|--|
|       |         |      |     |    |              |        |       |      |       | Armenia  |
| DK2OM | 7057,3  | 2305 | 23  | 06 | TUR          |        | PSK8  | 2400 | 2400  | MIL-188-110A – border Turkey – Armenia   |
| DK2OM | 7070,0  | vt   | vd  | 06 | GEO          | no ITU | FSK8  | 125  | 1750  | ALE, “MV” “244” “686” “334” “204”  |
| DK2OM | 7099,5  | vt   | vd  | 06 | HRV          | 9A0ZG  | FSK8  | 125  | 1750  | ALE, “9A0ZG” “9A5EX” “9A0OS” – just for info!  |
| DK2OM | 7102,0  | vt   | vd  | 06 | HRV<br>SUI   | 9A0ALE | FSK8  | 125  | 1750  | ALE, “9A0ALE” “HB9MHB” “9A0ZG” – just for info!  |
| DK2OM | 7105,0  | vt   | dly | 06 | TUN          |        | A3E   |      |       | RTV Tunisia - intermodulation  |
| DK2OM | 7110,0  | vt   | dly | 06 | HRV          | 9A0ALE | FSK8  | 125  | 1750  | ALE, “9A0ALE” – just for info  |
| DK2OM | 7110,0  | vt   | dly | 06 | BRM          |        | A3E   |      |       | Radio Myanmar still active   |
| DK2OM | 7120,0  | 1730 | 08  | 06 | SOM          |        | A3E   |      | 9k    | Radio Hargaysa Somalia, daily  |
| DK2OM | 7120,0  | 2020 | 29  | 06 | GEO          |        | PSK2A | 120  | 2600  | AT3004D – area of Georgia  |
| DK2OM | 7125,0  | 0627 | 06  | 06 | RUS          |        | PSK2A | 120  | 2600  | AT3004D - Kaliningrad  |
| DK2OM | 7130,0  | 1916 | 04  | 06 | CHN          |        | FMCW  |      | 40k   | Chinese OTH Radar – 43.5 sps – 7130 – 7170 kHz   |
| DK2OM | 7132,0  | 2255 | 22  | 06 | RUS          |        | PSK2A | 120  | 2600  | AT3004D – Voronezh – also: 23.06.2013 at 2000 utc  |
| DK2OM | 7135,0  | 0733 | 23  | 06 | UKR          |        | F1B   | 40.5 | 250   | system Frost1 - Vinnytsya  |
| DK2OM | 7139,3  | 1520 | 09  | 06 | CHN          |        | OFDM  | 60   | 2400  | OFDM32 - Chinese ARQ burst system with 4 x PSK4 introsignals                                       |
| DK2OM | 7169,0  | 1942 | 03  | 06 | RUS          |        | PSK2A | 120  | 2600  | AT3004D - Kaliningrad  |
| DK2OM | 7174,0  | 1255 | 19  | 06 | RUS          |        | PSK2A | 120  | 2600  | AT3004D - Severomorsk  |
| DK2OM | 7176,0  | 1848 | 10  | 06 | RUS          |        | PSK2  | 120  | 2600  | AT3004D – submode idle and traffic - Far East Russia   |
| DK2OM | 7185,5  | 1524 | 02  | 06 | D<br>HRV     |        | FSK8  | 125  | 1750  | ALE, “9A5EX” “DK0ESD” just for info - daily  |
| DK2OM | 7194,1  | 1815 | 24  | 06 | I            |        | A3E   |      |       | illegal music emission, unstable carrier, no announcement – Italian pirate – area of Tonino        |
| DK2OM | 7197,0  | vt   | dly | 06 | TUR          |        | FSK8  | 125  | 1750  | ALE, “8241” “206102” “8151” “3021” – Turkish Sivil Avunma – Turkish Civil Defense - source: DL8AAM |
| DK2OM | 10100,0 | 2050 | 10  | 06 | CHN          |        | FMCW  |      | 85k   | Chinese OTH radar with 43.5 sps 10100.0 – 10185 kHz – strong in Europe, Japan and Australia        |
| DK2OM | 10100,8 | ady  | dly | 06 | D            |        | F1B   | 50   | 450   | Baudot - German Weatherservice – legal!  |
| DK2OM | 10108,0 | 0628 | 27  | 06 | RUS          |        | F1B   | 50   | 200   | Moscow   |
| DK2OM | 10112,0 | ady  | dly | 06 | TUR          |        | PSK8  | 2400 | 2400  | Stanag4285 – 600 bps long – NE of Izmir  |
| DK2OM | 10113,0 | vt   | dly | 06 | TUN          | no ITU | FSK8  | 125  | 1750  | ALE, “TUD”   |
| DK2OM | 10114,8 | 0624 | 24  | 06 | RUS          |        | F1B   | 100  | 1000  | CIS14 – Penza - daily  |
| DK2OM | 10118,0 | 0629 | 22  | 05 | RUS          |        | F1B   | 75   | 250   | Moscow   |
| DK2OM | 10120,0 | 2202 | 05  | 06 | RUS          |        | PSK2A | 120  | 2600  | AT3004D – Samara – also: 08.06.2013 at 0614 utc  |
| DK2OM | 10125,0 | vt   | vd  | 06 | CHN          |        | FSK8  | 125  | 1750  | ALE, “277” “278” – China   |
| DK2OM | 10130,0 | vt   | dly | 06 |              |        | FSK8  | 125  | 1750  | Thales 3000  |
| DK2OM | 10134,7 | 2155 | 29  | 06 | CIS          |        | A3E   |      |       | CIS pirates, unstable carrier  |
| DK2OM | 10136,0 | 2135 | 29  | 06 | RUS          |        | F1B   | 50   | 200   | Far East Russia  |
| DK2OM | 10145,5 | vt   | vd  | 06 | HRV<br>S / D | 9A5EX  | FSK8  | 125  | 1750  | ALE, “9A5EX” “SM5VRH” “DK0ESD” - just for info   |
| DK2OM | 14000,0 | 1348 | 23  | 06 | CLN          |        | USB   |      |       | Sinhala fishery  |
| DK2OM | 14000,0 | 2025 | 30  | 06 | B            |        | USB   |      |       | Brazilian pirates  |
| DK2OM | 14001,0 | vt   | dly | 06 | CHN          |        | FSK8  | 125  | 1750  | ALE, “397”   |
| DK2OM | 14001,9 | 2015 | 04  | 06 | USA          |        | WXFAX |      | 800   | WXFAX – 120 rpm, IOC 576, NOAA.GOV – USA – Coastguard Boston - Atlantic charts                     |
| DK2OM | 14008,0 | 1302 | 12  | 06 | RUS          |        | F1B   | 50   | 250   | Moscow   |
| DK2OM | 14011,3 | 1312 | 19  | 06 | G            |        | PSK4A | 2400 | 3000  | Stanag4591 – MELP vocoder – English Channel  |
| DK2OM | 14026,0 | 0833 | 07  | 06 | RUS          |        | PSK2A | 120  | 2600  | AT3004D – Moscow – traffic and submode idle – various days   |
| DK2OM | 14030,0 | 0904 | 25  | 06 | RUS          |        | PSK2  | 120  | 2600  | AT3004D – submode idle – short   |

| DK2OM | kHz     | UTC            | DD  | MM | ITU             | IDENT  | MODE         | BD   | SH/SP      | DETAILS   |
|-------|---------|----------------|-----|----|-----------------|--------|--------------|------|------------|---|
|       |         |                |     |    |                 |        |              |      |            | transmission  |
| DK2OM | 14060,0 | vt             | vd  | 06 | ISR             |        | FSK8         | 125  | 1750       | ALE, "AAA" - Israel   |
| DK2OM | 14108,0 | 0705           | 12  | 06 | RUS             |        | A1A          |      |            | "LTV5" de "3RKA" - Moscow   |
| DK2OM | 14109,0 | vt             | vd  | 06 | ISR             | 4X1    | FSK8         | 125  | 1750       | ALE, "4X1" "CT2IXQ" – just for info!                                    |
| DK2OM | 14110,0 | 0500           | 18  | 06 | CHN             |        | FMCW         |      | 10k        | OTH Radar China – 66.7 sps bursts                                       |
| DK2OM | 14118,0 | 1250           | 19  | 06 | RUS             |        | PSK2A        | 120  | 2600       | AT3004D – Moscow  |
| DK2OM | 14128,0 | 1320           | 18  | 06 | RUS             |        | MFSK         |      |            | CIS-60 - Moscow   |
| DK2OM | 14140,0 | 1130           | 20  | 06 | RUS             |        | PSK2A        | 120  | 2600       | AT3004D - Severomorsk   |
| DK2OM | 14171,0 | 0532           | 18  | 06 | RUS             |        | FMCW         |      | 10k        | RUS OTH Radar- 10 sps – Nizhniy Novgorod                                |
| DK2OM | 14174,0 | 1059           | 13  | 06 | RUS             |        | PSK2A        | 120  | 2600       | AT3004D – traffic and submode idle - Irkutsk                            |
| DK2OM | 14192,0 | 0900           | 02  | 06 | RUS             |        | F1B          | 50   | 200        | RUS Navy Kaliningrad – often daily                                      |
| DK2OM | 14192,0 | 0857           | 11  | 06 | RUS             |        | P0N?         |      | 10k        | OTH Radar Nizhniy Novgorod – 10 sps                                     |
| DK2OM | 14205,0 | vt             | dly | 06 |                 | no ITU | FSK8         | 125  | 1750       | ALE, "505" "822" – 60 deg. from DL - CHN ?                              |
| DK2OM | 14221,0 | 2052           | 06  | 06 | RUS             |        | F1B          | 50   | 200        | Moscow – also: 08.06.2013 at 2000 utc                                   |
| DK2OM | 14221,0 | 0425           | 23  | 06 | KGZ             |        | F1B          | 50   | 200        | Bishkek   |
| DK2OM | 14240,0 | 0913           | 11  | 06 | RUS             |        | P0N?         |      | 10k        | OTH Radar Nizhniy Novgorod – 50 sps                                     |
| DK2OM | 14240,0 | 0956           | 30  | 06 | RUS             |        | F1B          | 50   | 250        | Kaliningrad   |
| DK2OM | 14257,9 | 1330           | 20  | 06 | RUS             |        | F1B          | 50   | 500        | 14257.875 kHz - Moscow  |
| DK2OM | 14260,0 | 0618           | 30  | 06 | SRB             |        | FSK8         | 125  | 1750       | ALE, "YU1BI" – just for info!   |
| DK2OM | 14260,9 | 0639           | 13  | 06 | RUS             |        | F1B          | 75   | 400        | with CW msgs in F1A - Kaliningrad                                       |
| DK2OM | 14262,9 | 0839           | 07  | 06 | RUS             |        | FSK2         | 75   | 400<br>600 | F1B and F1A – interlaced – St. Peterburg – also: 14.06.2013 at 0738 utc |
| DK2OM | 14264,0 | 2050           | 06  | 06 | CHN             |        | FMCW         |      | 10k        | OTHR bursts – 66.7 sps - 3.8 sec bursts – every 40 sec                  |
| DK2OM | 14265,0 | vt             | vd  | 06 | TUR             |        | FSK8         | 125  | 1750       | ALE, "526"  |
| DK2OM | 14265,0 | 0615           | 08  | 06 | RUS             |        | PSK2A        | 120  | 2600       | AT3004D – traffic and idle - Moscow                                     |
| DK2OM | 14280,0 | Wednes<br>sday | vd  | 06 | UKR             |        | A3E          |      |            | Ukraine secret service SZRU – female voice spelling encrypted msgs      |
| DK2OM | 14292,0 | 0622           | 18  | 06 | RUS             | 5Z     | A1A          |      |            | encrypted CW – area of Moscow   |
| DK2OM | 14293,8 | 2215           | 22  | 06 | RUS             |        | PSK2         | 1200 | 1200       | CIS 1200 vocoder – west of Chabarovsk                                   |
| DK2OM | 14294,0 | 1439           | 13  | 06 | RUS             |        | PSK2A        | 120  | 2600       | AT3004D - Novosibirsk   |
| DK2OM | 14295,0 | 1532           | 16  | 06 | SRB             | YU1BI  | FSK8         | 125  | 1750       | ALE, "YU1BI" – just for info!   |
| DK2OM | 14295,1 | ady            | dly | 06 | TJK             |        | A3E          |      |            | 3 <sup>rd</sup> from Radio Tajik on 4765 kHz                            |
| DK2OM | 14299,3 | 0852           | 11  | 06 | CHN             |        | PSK4         | 75   | 2250       | PRC4+4 - East China   |
| DK2OM | 14302,0 | 1350           | 18  | 06 | RUS             |        | MFSK         |      |            | CIS-60 - Moscow   |
| DK2OM | 14305,0 | 0520           | 18  | 06 | CHN             |        | FMCW         |      | 10k        | OTH Radar China – 66.7 sps bursts                                       |
| DK2OM | 14317,0 | vt             | vd  | 06 | UKR             | RCV    | A1A          |      |            | RUS naval base Sevastopol - encrypted, cyrillic letters                 |
| DK2OM | 14318,5 | 0653           | 27  | 06 | RUS             |        | F1B<br>burst | 600  | 600        | DPRK-FSK 600 – 14318,450 kHz – North Korean embassy Moscow              |
| DK2OM | 14344,7 | 1610           | 15  | 06 | CHN             |        | PSK8         | 2400 | 2400       | MIL-188-110A variant – daily, 600 bps short – 14344.650 kHz             |
| DK2OM | 14346,0 | 2002           | 16  | 06 | HRV<br>RUS<br>D |        | FSK8         | 125  | 1750       | ALE, "9A0ZG" "RX3ARZ" "DK0ESD" – just for info – various times, daily   |
| DK2OM | 14346,0 | ady            | dly | 06 | THA             | HSOZEA | A1A          |      |            | HSOZEA beacon – 14345.950 kHz - every 5 minutes – just for info!        |
| DK2OM | 18100,0 | 2044           | 06  | 06 | POR?            |        | USB          |      |            | pirates in Portuguese voice   |
| DK2OM | 18107,0 | vt             | vd  | 06 | RUS             | RDL    | F1B          | 50   | 200        | Moscow – idle and traffic – Russian navy – various days and             |



| DK2OM | kHz     | UTC  | DD  | MM | ITU | IDENT    | MODE  | BD   | SH/SP | DETAILS   |
|-------|---------|------|-----|----|-----|----------|-------|------|-------|---|
|       |         |      |     |    |     |          |       |      |       | times – legal operation   |
| DK2OM | 21000,0 | 1922 | 22  | 06 | B   |          | USB   |      |       | Brazilian pirates (fishery ?) – Rio de Janeiro with North Brazil  |
| DK2OM | 21003,0 | 2111 | 13  | 06 |     |          |       |      |       | frequency hopper  |
| DK2OM | 21010,0 | 0620 | 12  | 06 | CHN |          | USB   |      |       | South China – MIL?  |
| DK2OM | 21060,0 | 0727 | 05  | 06 | UKR |          | PSK2A | 120  | 2600  | AT3004D – Odessa UKR MIL  |
| DK2OM | 21062,0 | 1412 | 22  | 06 | UKR |          | PSK2A | 120  | 2600  | AT3004D - Odessa UKR MIL  |
| DK2OM | 21094,0 | 1025 | 22  | 06 | RUS |          | PSK2  | 120  | 2600  | AT3004D – submode idle - Moscow   |
| DK2OM | 21096,0 | 1407 | 11  | 06 | INS | YD00XH   | FSK8  | 125  | 1750  | ALE, “YD00XH3” – daily, various times - just for info!  |
| DK2OM | 21140,8 | 1450 | 14  | 06 |     |          | PSK8  | 2400 | 2400  | Link11 SLEW -   |
| DK2OM | 21145,0 | 2000 | 16  | 06 | MRC |          | FSK8  | 125  | 1750  | ALE, “B301”, “C3”, “IR4” “T4” “E4” “A2” “CD” “K3” – various times, daily  |
| DK2OM | 21145,0 | 0628 | 10  | 06 | CHN |          | FMCW  |      | 10k   | OTH radar with 66.7 sps and 3.8 sec bursts  |
| DK2OM | 21205,0 | 0732 | 05  | 06 | AUS |          | FMCW  |      | 20k   | OTH Radar JORN bursts   |
| DK2OM | 21230,0 | 0630 | 10  | 06 | AUS |          | FMCW  |      | 20k   | OTH Radar JORN bursts   |
| DK2OM | 21230,0 | 0652 | 23  | 06 | TUR |          | FMCW  |      | 20k   | OTH Radar NW-Turkey – 50 sps  |
| DK2OM | 21409,5 | 0633 | 06  | 06 | RUS |          | F1B   | 100  | 2000  | CIS14 – harmonic from 10704.75 – Jekaterinburg - daily  |
| DK2OM | 21438,0 | vt   | dly | 06 | UKR | RCV      | A1A   |      |       | RIP90 de RCV - RUS Navy Sevastopol - daily  |
| DK2OM | 21446,0 | ady  | dly | 06 | THA | HS0ZEA   | A1A   |      |       | HS0ZEA beacon – every 5 minutes - just for info!  |
| DK2OM | 25000,0 | ady  | dly | 06 | FIN |          | A3E   |      |       | time signal Helsinki – just for info – carrier on 25000 – dots on 25001 and 24999 – daily, all day  |
| DK2OM | 28000,0 | vt   | dly | 06 | B   |          | A3E   |      |       | 28000 – 28325 numerous Brazilian CBers  |
| DK2OM | 28000,0 | vt   | dly | 06 | CIS |          | F3E   |      |       | 28000 – 29700 numerous CIS taxi nets  |
| DK2OM | 28000,0 | 2018 | 17  | 06 | MEa |          | A3E   |      | 8000  | carrier on 28000.0 and 14 dots on both sidebands (master and slave) – 8 kHz wide – 120 deg from DL – hyperbolic navigation system (BRAS-3 or RS-10) |
| DK2OM | 28000,0 | vt   | dly | 06 | IRN |          | FMCW  |      | 60k   | OTH Radar Iran – 307 and 870 sps – jumping between 28000 and 29700 kHz daily  |
| DK2OM | 28000,0 | 0636 | 08  | 06 | GRC | no calls | USB   |      |       | Greek pirates   |
| DK2OM | 28000,0 | 1550 | 19  | 06 | I   |          | NON   |      |       | carrier, Sicily Island  |
| DK2OM | 28000,0 | 1044 | 22  | 06 | MEa |          | A3E   |      |       | pirates in Arabic voice, 120 deg. from DL   |
| DK2OM | 28001,8 | 1223 | 18  | 06 | ARS |          | PSK8  | 2400 | 2400  | Stanag4285 – Saudi Arabia   |
| DK2OM | 28002,0 | 2024 | 03  | 06 | B   |          | USB   |      |       | pirates in Potuguese voice, engine noise in the background  |
| DK2OM | 28005,0 | 1843 | 02  | 06 | B   |          | A3E   |      |       | Brazilian CBers   |
| DK2OM | 28005,0 | 1014 | 18  | 06 | E   |          | A3E   |      |       | Spanish CBers   |
| DK2OM | 28005,0 | 0802 | 26  | 06 | E   |          | A3E   |      |       | Spanish CBers   |
| DK2OM | 28005,0 | ady  | dly | 06 | RUS |          | F3E   |      |       | taxi – St. Peterburg  |
| DK2OM | 28015,0 | 2022 | 09  | 06 | B   |          | A3E   |      |       | Brazilian CBers   |
| DK2OM | 28025,0 | 2023 | 09  | 06 | B   |          | A3E   |      |       | Brazilian CBers   |
| DK2OM | 28030,0 | 1859 | 18  | 06 | POR |          | F1B   | 51   | 320   | F1B bursts – west of Lisbon, daily, all day   |
| DK2OM | 28035,0 | 1852 | 02  | 06 | B   |          | A3E   |      |       | Brazilian CBers   |
| DK2OM | 28035,0 | 1900 | 10  | 06 | E   |          | A3E   |      |       | Spanish CBers   |
| DK2OM | 28035,0 | 1612 | 01  | 06 | RUS |          | F3E   |      |       | taxi - area of Moscow – male and female – daily, all day  |
| DK2OM | 28040,1 | 2020 | 02  | 06 | POR |          | F1B   | 51   | 320   | F1B bursts – west of Lisbon, daily, all day   |
| DK2OM | 28045,0 | 1744 | 04  | 06 | B   |          | A3E   |      |       | Brazilian CBers   |
| DK2OM | 28050,0 | 1622 | 02  | 06 | B   |          | A3E   |      |       | Brazilian CBers   |
| DK2OM | 28055,0 | 0652 | 06  | 06 | E   |          | A3E   |      |       | Spanish CBers   |
| DK2OM | 28065,0 | 2023 | 09  | 06 | B   |          | A3E   |      |       | Brazilian CBers   |
| DK2OM | 28065,0 | 1918 | 11  | 06 | E   |          | A3E   |      |       | Spanish CBers – also: 17.06.2013 at 0919 utc  |

| DK2OM | kHz     | UTC  | DD  | MM | ITU | IDENT | MODE | BD    | SH/SP | DETAILS  |
|-------|---------|------|-----|----|-----|-------|------|-------|-------|--|
| DK2OM | 28085,0 | 2024 | 09  | 06 | B   |       | A3E  |       |       | Brazilian CBers  |
| DK2OM | 28085,0 | 0833 | 11  | 06 | E   |       | A3E  |       |       | Spanish CBers  |
| DK2OM | 28085,0 | 1546 | 19  | 06 | I   |       | A3E  |       |       | Ialian CBers, roger beep   |
| DK2OM | 28100,2 | 2040 | 06  | 06 | POR |       | F1B  | 51    | 320   | F1B bursts - 28100.160 kHz - west of Lisbon  |
| DK2OM | 28105,0 | 1841 | 02  | 06 | B   |       | A3E  |       |       | Brazilian CBers  |
| DK2OM | 28105,0 | 0818 | 26  | 06 | E   |       | A3E  |       |       | Spanish CBers – also: 27.06.2013   |
| DK2OM | 28115,0 | 1843 | 02  | 06 | B   |       | A3E  |       |       | Brazilian CBers  |
| DK2OM | 28115,0 | 1410 | 18  | 06 | TUR |       | F3E  |       |       | Turkish intruders  |
| DK2OM | 28125,0 | 2025 | 09  | 06 | B   |       | A3E  |       |       | Brazilian CBers  |
| DK2OM | 28135,0 | vt   | dly | 06 | RUS |       | F3E  |       |       | taxi - Caucasus  |
| DK2OM | 28145,0 | vt   | dly | 06 | RUS |       | F3E  |       |       | taxi - Caucasus  |
| DK2OM | 28150,0 | 1830 | 23  | 06 | F   |       | F3E  |       |       | French CBers   |
| DK2OM | 28165,0 | 1841 | 05  | 06 | B   |       | A3E  |       |       | Brazilian CBers  |
| DK2OM | 28175,0 | 1840 | 05  | 06 | B   |       | A3E  |       |       | Brazilian CBers  |
| DK2OM | 28185,0 | 1839 | 05  | 06 | B   |       | A3E  |       |       | Brazilian CBers  |
| DK2OM | 28185,6 | 1900 | 16  | 06 | SAm |       | F1B  | 302.0 | 202   | data bursts – South America – daily, all day   |
| DK2OM | 28186,9 | 2035 | 17  | 06 |     |       | USB  |       |       | pirates – unknown language   |
| DK2OM | 28200,0 | 1911 | 18  | 06 | POR |       | F1B  | 51    | 320   | F1B bursts - west of Lisbon  |
| DK2OM | 28200,0 | 1625 | 18  | 06 | BUL |       | A3E  |       |       | harmonic from Kostinbrod, Bulgaria, on 9400 kHz – also audible at 18800 kHz – daily!                           |
| DK2OM | 28205,0 | 1838 | 05  | 06 | B   |       | A3E  |       |       | Brazilian CBers  |
| DK2OM | 28205,0 | 0743 | 27  | 06 | E   |       | A3E  |       |       | Spanish CBers  |
| DK2OM | 28210,0 | vt   | dly | 06 | UKR |       | F3E  |       |       | taxi - Dnepropetrovsk  |
| DK2OM | 28215,0 | 1748 | 04  | 06 | B   |       | A3E  |       |       | Brazilian CBers  |
| DK2OM | 28215,0 | 0929 | 17  | 06 | E   |       | A3E  |       |       | Spanish fishery  |
| DK2OM | 28225,0 | 1748 | 04  | 06 | B   |       | A3E  |       |       | Brazilian CBers  |
| DK2OM | 28235,0 | 1904 | 02  | 06 | B   |       | A3E  |       |       | Brazilian CBers  |
| DK2OM | 28245,0 | 1905 | 02  | 06 | B   |       | A3E  |       |       | Brazilian CBers  |
| DK2OM | 28255,0 | vt   | dly | 06 | KAZ |       | F3E  |       |       | taxi – Almaty  |
| DK2OM | 28255,0 | 1851 | 02  | 06 | B   |       | A3E  |       |       | Brazilian CBers  |
| DK2OM | 28255,0 | 0700 | 13  | 06 | I   |       | F3E  |       |       | Italian CBers – Milano and Genova  |
| DK2OM | 28255,0 | 0540 | 19  | 06 | F   |       | F3E  |       |       | French CBers   |
| DK2OM | 28275,0 | 1615 | 01  | 06 | RUS |       | F3E  |       |       | taxi net, area of Moscow - daily   |
| DK2OM | 28275,0 | 1837 | 05  | 06 | B   |       | A3E  |       |       | Brazilian CBers  |
| DK2OM | 28285,0 | vt   | dly | 06 | RUS |       | F3E  |       |       | taxi – Rostov na Donu  |
| DK2OM | 28285,0 | 1741 | 04  | 06 | B   |       | A3E  |       |       | Brazilian CBers  |
| DK2OM | 28285,0 | 1311 | 11  | 06 | E   |       | A3E  |       |       | Spanish CBers – also: 27.06.2013 at 0755 utc   |
| DK2OM | 28285,0 | 0550 | 19  | 06 | F   |       | F3E  |       |       | French CBers, playing music  |
| DK2OM | 28305,0 | vt   | dly | 06 | RUS |       | F3E  |       |       | taxi - Krasnodar   |
| DK2OM | 28315,0 | 1750 | 04  | 06 | B   |       | A3E  |       |       | Brazilian CBers  |
| DK2OM | 28321,1 | 1920 | 16  | 06 | B   |       | A3E  |       |       | Brazilian pirates  |
| DK2OM | 28346,3 | 2045 | 03  | 06 | GAB |       | A3E  |       | 1600  | carrier and dots in USB and LSB, bursts every 60 sec – 28346.25 kHz carrier – <b>Gabon</b> – daily and all day |
| DK2OM | 28355,0 | 0808 | 26  | 06 | E   |       | A3E  |       |       | Spanish fishery  |
| DK2OM | 28365,0 | vt   | dly | 06 | RUS |       | F3E  |       |       | taxi net, area of Moscow - daily   |
| DK2OM | 28390,0 | vt   | dly | 06 | RUS |       | F3E  |       |       | taxi - Vladikavkaz   |
| DK2OM | 28459,8 | 0734 | 27  | 06 | GAB |       | A3E  |       | 1000  | carrier and dots in USB and LSB, bursts - <b>Gabon</b> – daily and all day                                     |
| DK2OM | 28460,0 | 0733 | 27  | 06 | GAB |       | A3E  |       | 1000  | carrier and dots in USB and LSB, bursts - <b>Gabon</b> – daily and all day                                     |
| DK2OM | 28695,0 | vt   | dly | 06 | RUS |       | F3E  |       |       | taxi net, area of Moscow - daily   |
| DK2OM | 28825,0 | vt   | dly | 06 | UKR |       | F3E  |       |       | taxi - Odessa  |
| DK2OM | 28895,0 | vt   | dly | 06 | RUS |       | F3E  |       |       | taxi - Stavropol   |
| DK2OM | 28945,0 | vt   | dly | 06 | UKR |       | F3E  |       |       | taxi - Donetsk   |
| DK2OM | 29055,0 | vt   | dly | 06 | RUS |       | F3E  |       |       | taxi Stavropol   |
| DK2OM | 29209,7 | 0830 | 12  | 06 | I   |       | F1B  | 1200  | 1200  | F3E modulated by F1B-bursts, North Italy – remote signals?   |
| DK2OM | 29250,0 | ---  | --  | 06 | E   |       | F1B  | 81.9  | 140   | Datawell-buoy “Waverider” –  |

| DK2OM | kHz     | UTC  | DD  | MM | ITU | IDENT | MODE   | BD   | SH/SP | DETAILS   |
|-------|---------|------|-----|----|-----|-------|--------|------|-------|---|
|       |         |      |     |    |     |       |        |      |       | 29249.907 kHz – Fuerteventura - daily, all day  |
| DK2OM | 29375,0 | ---  | --  | 06 | I   |       | F1B    | 81.9 | 140   | Datawell-buoy “Waverider” – 29374.898 kHz – Galatone, South Italy - daily, all day              |
| DK2OM | 29387,5 | ---  | --  | 06 | IND |       | F1B    | 81.9 | 140   | Datawell-buoy “Waverider” – 29387,460 kHz – Indian NW coast, close to Pakistan - daily, all day |
| DK2OM | 29450,0 | ---  | --  | 06 | MRC |       | F1B    | 81.9 | 140   | Datawell-buoy “Waverider” – 29449.963 kHz - area of El Aaiun – Morocco - daily, all day         |
| DK2OM | 29500,0 | ---  | --  | 06 | G   |       | F1B    | 81.9 | 140   | Datawell-buoy “Waverider” – area of Gibraltar – daily, all day                                  |
| DK2OM | 29525,0 | ---  | --  | 06 | MRC |       | F1B    | 81.9 | 140   | Datawell-buoy “Waverider” – 29524.990 kHz - Agadir - Morocco – daily, all day                   |
| DK2OM | 29555,0 | vt   | dly | 06 | RUS |       | F3E    |      |       | taxi - area of Moscow - daily   |
| DK2OM | 29575,0 | vt   | dly | 06 | RUS |       | F3E    |      |       | taxi - area of Moscow – male and female – very active - daily, all day                          |
| DK2OM | 29604,4 | 1155 | 20  | 06 | I   |       | A3E    | 120  | 2600  | Italian fishery? engine noise   |
| DK2OM | 29684,8 | 1016 | 18  | 06 | I   |       | serial |      |       | serial modem, Italian MIL Brescia – Sporadic E!   |
| DK2OM | 29699,8 | 1016 | 18  | 06 | I   |       | serial |      |       | serial modem, Italian MIL Brescia – Sporadic E!   |

### IRTS – Ireland – EI5DD (Steve)

### KARS – Kuwait – 9K2RR (Faisal)

### MRASZ – Hungary - HA7PL (Laci)

| SOC   | kHz    | UTC  | DD | MM | ITU | IDENT | MODE | BD | SH  | DETAILS                    |
|-------|--------|------|----|----|-----|-------|------|----|-----|----------------------------|
| MRASZ | 3530,0 | 1916 | 4  | 6  |     |       | OTHR |    |     |                            |
| MRASZ | 3530,0 | 1851 | 19 | 6  |     |       | OTHR |    |     |                            |
| MRASZ | 3580,0 | 2033 | 10 | 6  |     |       | OTHR |    |     | till 3615 kHz              |
| MRASZ | 7000,0 | 1707 | 2  | 6  |     |       | LSB  |    |     | continuous idiotic babble  |
| MRASZ | 7000,1 | 1719 | 2  | 6  |     |       | LSB  |    |     | italian male               |
| MRASZ | 7000,1 | 1819 | 14 | 6  |     |       | LSB  |    |     | continuous idiotic babble  |
| MRASZ | 7000,3 | 1840 | 24 | 6  |     |       | A1A  |    |     | "SK7CA/p" field day beacon |
| MRASZ | 7000,9 | 0733 | 9  | 6  |     |       | N0N  |    |     |                            |
| MRASZ | 7008,0 | 1632 | 24 | 6  |     |       | F1B  |    | 250 |                            |
| MRASZ | 7010,0 | 0735 | 6  | 6  |     |       | OTHR |    |     | till 7020 kHz              |
| MRASZ | 7027,5 | 1927 | 10 | 6  |     |       | A1A  |    |     | "V V V V V" slowly         |
| MRASZ | 7037,2 | vt   | vd | 6  | UKR | D     | A1A  |    |     | beacon "D"                 |
| MRASZ | 7038,7 | vt   | vd | 6  | UKR | D     | A1A  |    |     | beacon "D"                 |
| MRASZ | 7038,9 | 1928 | 11 | 6  | RUS | S     | A1A  |    |     | beacon "S"                 |
| MRASZ | 7038,9 | 2020 | 18 | 6  | RUS | S     | A1A  |    |     | beacon "S"                 |
| MRASZ | 7039,0 | 1928 | 11 | 6  | RUS | C     | A1A  |    |     | beacon "C"                 |
| MRASZ | 7040,5 | 1808 | 14 | 6  |     |       | FSK8 |    |     | ALE                        |
| MRASZ | 7089,9 | 1332 | 21 | 6  |     |       | PSK? |    |     |                            |
| MRASZ | 7102,0 | 1803 | 14 | 6  |     |       | FSK8 |    |     | ALE                        |
| MRASZ | 7120,0 | vt   | vd | 6  | SOM |       | A3E  |    |     | BC + on day's: 13,18,19,29 |
| MRASZ | 7124,0 | 1911 | 26 | 6  |     |       | A1A  |    |     | "F8VR de GFNC QSA? K"      |
| MRASZ | 7125,0 | 0735 | 6  | 6  |     |       | PSK2 |    |     | AT3004D                    |

| SOC   | kHz     | UTC  | DD | MM | ITU  | IDENT | MODE | BD  | SH   | DETAILS                         |
|-------|---------|------|----|----|------|-------|------|-----|------|---------------------------------|
| MRASZ | 7132,0  | 1637 | 21 | 6  | RUS  |       | PSK2 | 120 | 2600 | AT3004D                         |
| MRASZ | 7132,0  | 1637 | 24 | 6  | RUS  |       | PSK2 | 120 | 2600 | AT3004D                         |
| MRASZ | 7132,0  | 1916 | 26 | 6  | RUS  |       | PSK2 | 120 | 2600 | AT3004D                         |
| MRASZ | 7150,0  | 1750 | 24 | 6  |      |       | J7D  |     |      |                                 |
| MRASZ | 7174,0  | 2018 | 18 | 6  |      |       | J7D  |     |      |                                 |
| MRASZ | 7174,0  | 1850 | 19 | 6  |      |       | J7D  |     |      |                                 |
| MRASZ | 7175,0  | 1913 | 4  | 6  |      |       | ???  |     |      | wide intermod. produkt fm 7215? |
| MRASZ | 7181,6  | 1902 | 10 | 6  |      |       | N0N  |     |      | or a AM carrier?                |
| MRASZ | 7181,6  | 1945 | 11 | 6  |      |       | N0N  |     |      |                                 |
| MRASZ | 7182,0  | 1925 | 2  | 6  |      |       | A1A  |     |      | Cyrillic letters: CH, Ū, Ö, Ä   |
| MRASZ | 7185,5  | 1902 | 10 | 6  |      |       | FSK8 |     |      | ALE                             |
| MRASZ | 7185,5  | 1334 | 21 | 6  |      |       | FSK8 |     |      | ALE                             |
| MRASZ | 14008,0 | 1159 | 9  | 6  |      |       | F1B  |     | 250  |                                 |
| MRASZ | 14174,0 | 1800 | 16 | 6  |      |       | PSK2 |     |      | AT3004D                         |
| MRASZ | 14192,0 | 0812 | 9  | 6  |      |       | F1B  |     | 200  |                                 |
| MRASZ | 14210,0 | 1756 | 24 | 6  | Ui?  |       | A3E  |     |      | Ui.                             |
| MRASZ | 14221,0 | 1900 | 10 | 6  | Ui   |       | F1B  |     | 200  |                                 |
| MRASZ | 14221,0 | 1924 | 14 | 6  | Ui   |       | F1B  |     | 200  |                                 |
| MRASZ | 14294,0 | 1913 | 14 | 6  |      |       | PSK2 |     |      | AT3004D                         |
| MRASZ | 14295,1 | 1752 | 24 | 6  | UiBC |       | A3E  |     |      | 3rd harmonic of 4765 kHz        |
| MRASZ | 18090,0 | 1853 | 19 | 6  |      |       | OTHR |     |      | till 18139 kHz                  |
| MRASZ | 28000,0 | 1856 | 19 | 6  |      |       | OTHR |     |      | till 28050 kHz                  |

### OEVSU – Austria – OE3GSA (Gerd)

| SOC   | kHz    | UTC  | DD | MM | ITU  | IDENT | MODE | BD | SH  | DETAILS                        |
|-------|--------|------|----|----|------|-------|------|----|-----|--------------------------------|
| oevsu | 7007,6 | 0444 | 21 | 05 | unid |       | J3Eu |    |     | males chatting                 |
| oevsu | 7038,7 | 0528 | 14 | 06 | RUS  | D     | A1A  |    |     | also 7034,24                   |
| oevsu | 7120   | 1850 | 24 | 06 | SOM  |       | A3E  |    |     | BC Radio Harg.                 |
| oevsu | 14026  | 0510 | 08 | 05 | unid |       | F1B  |    | 250 | 6 tones                        |
| oevsu | 14220  | 2000 | 20 | 06 | unid |       | F1B  | 50 | 200 |                                |
| oevsu | 14241  | 0500 | 07 | 06 | unid |       | F1B  |    |     | 12 tones                       |
| oevsu | 14260  | 0715 | 11 | 06 | unid |       | F3E  |    |     | qrt 0718                       |
| oevsu | 28025  | 1535 | 14 | 06 | unid |       | A3A  |    |     | trucker chatting in portuguese |
| oevsu | 28055  | 1540 | 14 | 06 | unid |       | A3A  |    |     | again in portuguese            |

### PZK – Poland – SP3UZ (Wladyslaw)

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

| SOC | kHz           | UTC          | DD        | MM        | ITU        | IDENT    | MODE       | BD | SH | DETAILS   |
|-----|---------------|--------------|-----------|-----------|------------|----------|------------|----|----|---|
| REP | 3535,0        | 07.00        | 13        | 06        | F          |          | J3E-U      |    |    | French ops, unid  |
| REP | <b>3550,0</b> | <b>07.22</b> | <b>04</b> | <b>06</b> | <b>F</b>   |          | <b>A3E</b> |    |    | <b>INFRINGE - French amateurs ignoring IARU R1 Band Plan, daily</b> |
| REP | 3580,0        | 08.02        | 10        | 06        | F          |          | J3E-U      |    |    | French speaking ops   |
| REP | 3790,0        | 08.02        | 08        | 06        | E          |          | J3E-U      |    |    | Spanish fishery with wives  |
| REP | 7000,0        | 08.34        | 04        | 06        | F          |          | J3E-U      |    |    | French speaking fishermen (Morocco?)                                |
| REP | 7020,0        | 20.19        | 05        | 06        |            |          |            |    |    | Serial modem?   |
| REP | 7035,0        | 07.32        | 15        | 06        | E          |          | J3E-U      |    |    | Fishermen talking   |
| REP | <b>7038,6</b> | <b>22.02</b> | <b>10</b> | <b>06</b> | <b>RUS</b> | <b>S</b> | <b>A1A</b> |    |    | <b>KALININGRAD, ADY, DLY</b>  |
| REP | <b>7038,7</b> | <b>22.36</b> | <b>10</b> | <b>06</b> | <b>UKR</b> | <b>D</b> | <b>A1A</b> |    |    | <b>SEVASTOPOL, ADY, DLY</b>   |
| REP | <b>7038,8</b> | <b>22.38</b> | <b>10</b> | <b>06</b> | <b>RUS</b> | <b>P</b> | <b>A1A</b> |    |    | <b>MURMANSK, ADY, DLY</b>   |
| REP | <b>7039,0</b> | <b>22.49</b> | <b>10</b> | <b>06</b> | <b>RUS</b> | <b>C</b> | <b>A1A</b> |    |    | <b>MOSCOW, ADY, DLY</b>   |
| REP | <b>7039,1</b> | <b>21.55</b> | <b>18</b> | <b>06</b> | <b>RUS</b> | <b>A</b> | <b>A1A</b> |    |    | <b>VOLGOGRAD, ADY, DLY</b>  |
| REP | <b>7039,2</b> | <b>21.04</b> | <b>03</b> | <b>06</b> | <b>RUS</b> | <b>F</b> | <b>A1A</b> |    |    | <b>KAMCHATSKY, ADY, DLY</b>   |
| REP | <b>7039,3</b> | <b>21.58</b> | <b>05</b> | <b>06</b> | <b>RUS</b> | <b>K</b> | <b>A1A</b> |    |    | <b>VOLGOGRAD, ADY, DLY</b>  |
| REP | <b>7039,5</b> | <b>21.59</b> | <b>05</b> | <b>06</b> | <b>RUS</b> | <b>M</b> | <b>A1A</b> |    |    | <b>MAGADAN, ADY, DLY</b>  |
| REP | 7045,0        | 07.57        | 16        | 06        | E          |          | J3E-U      |    |    | Fishermen   |
| REP | 7050,0        | 07.21        | 03        | 06        | G          |          | J3E-U      |    |    | British fishermen   |
| REP | 7070,0        | 20.22        | 01        | 06        | MRC        |          | J3E-U      |    |    | Fishermen talking   |

| SOC | kHz            | UTC          | DD        | MM        | ITU        | IDENT | MODE                  | BD | SH  | DETAILS  |
|-----|----------------|--------------|-----------|-----------|------------|-------|-----------------------|----|-----|--|
| REP | 7073,5         | 21.00        | 19        | 06        |            |       | F1B                   | 75 | 240 | Unid transmission  |
| REP | <b>7105,0</b>  | <b>22.21</b> | <b>02</b> | <b>06</b> | <b>TWN</b> |       | <b>8k00<br/>A3EGN</b> |    |     | <b>Radio Sounds of Hope</b>  |
| REP | <b>7120,0</b>  | <b>18.36</b> | <b>04</b> | <b>06</b> | <b>SOM</b> |       | <b>8k00<br/>A3EGN</b> |    |     | <b>Radio Hargeysa</b>  |
| REP | 7124,0         | 20.16        | 05        | 06        | RUS        |       |                       |    |     | Russian military serial modem  |
| REP | <b>7175,0</b>  | <b>17.15</b> | <b>12</b> | <b>06</b> | <b>ERI</b> |       | <b>8k00<br/>A3EGN</b> |    |     | <b>Radio Voice of the Broad Masses</b>                                       |
| REP | 10100,0        | 21.32        | 12        | 06        |            |       | A3E                   |    |     | Numbers Station  |
| REP | 10115,0        | 23.10        | 22        | 06        |            |       | A1A                   |    |     | Numbers Station  |
| REP | 10120,0        | 12.55        | 08        | 06        | MRC        |       | J3E-U                 |    |     | Fishermen  |
| REP | 10120,0        | 19.31        | 20        | 06        |            |       | J3E-U                 |    |     | Unid arabic ops  |
| REP | 10124,5        | 12.23        | 08        | 06        |            |       | J3E-U                 |    |     | Unid language  |
| REP | 10131,5        | 22.22        | 10        | 06        | MRC        |       | J3E-U                 |    |     | Moroccan fishermen   |
| REP | <b>10250,0</b> | <b>07.12</b> | <b>06</b> | <b>06</b> | <b>AUS</b> |       | <b>J3E-U</b>          |    |     | <b>VK/ZL hams (just FYI)</b>   |
| REP | 14088,0        | 07.50        | 10        | 06        |            |       |                       |    |     | unid mil modem   |
| REP | 14110,0        | 06.59        | 13        | 06        |            |       | FMCW                  |    |     | Short burst OTH radar  |
| REP | 14142,0        | 07.10        | 06        | 06        |            |       |                       |    |     | Serial mil modem (?)   |
| REP | <b>14195,0</b> | <b>15.05</b> | <b>08</b> | <b>06</b> | <b>I</b>   |       | <b>J3E-U</b>          |    |     | <b>Italian music, jammer over QSOs</b>                                       |
| REP | <b>14195,0</b> | <b>19.08</b> | <b>18</b> | <b>06</b> | <b>I</b>   |       | <b>J3E-U</b>          |    |     | <b>Music &amp; F1B jamming - daily</b>                                       |
| REP | 18075,0        | 07.09        | 06        | 06        |            |       | FMCW                  |    |     | OTH radar 20khz  |
| REP | 21000,0        | 19.34        | 20        | 06        |            |       | J3E-U                 |    |     | Brazilian pirates, prob fishermen ref. boat                                  |
| REP | 21121,0        | 20.28        | 16        | 06        |            |       | J3E-U                 |    |     | Unid arabic fishermen, engines in background                                 |
| REP | 21121,0        | 19.01        | 18        | 06        |            |       | J3E-U                 |    |     | Unid arabic fishermen, repeat offenders                                      |
| REP | 21222,25       | 20.30        | 16        | 06        |            |       | J3E-U                 |    |     | Unid language fishermen, engine in background                                |
| REP | 28000,0        | 16.47        | 09        | 06        |            |       | A3E                   |    |     | Unid AM signal, no modulation, 4khz  |
| REP | 28000,0        | 19.44        | 11        | 06        | IRL        |       | F3E                   |    |     | Irish hams ignoring band plan  |
| REP | 28035,0        | 20.18        | 23        | 06        |            |       | A3E                   |    |     | Multiple brazilian pirates   |
| REP | <b>28095,0</b> | <b>12.35</b> | <b>15</b> | <b>06</b> |            |       | <b>A1A</b>            |    |     | <b>Two letter beacon "CM"</b>  |
| REP | 28100,0        | 07.20        | 12        | 06        |            |       | F1B                   | 50 | 200 | Sea buoy   |
| REP | 28105,0        | 19.00        | 12        | 06        | F          |       | F3B                   |    |     | French fishermen   |
| REP | <b>28151,2</b> | <b>13.45</b> | <b>15</b> | <b>06</b> |            |       | <b>A1A</b>            |    |     | <b>Single letter beacon "M"</b>  |
| REP | <b>28151,5</b> | <b>13.43</b> | <b>15</b> | <b>06</b> |            |       | <b>A1A</b>            |    |     | <b>Two letter beacon "CT"</b>  |
| REP | <b>28152,0</b> | <b>12.42</b> | <b>15</b> | <b>06</b> |            |       | <b>A1A</b>            |    |     | <b>Two letter beacon "MI"</b>  |
| REP | 28187,0        | 07.40        | 10        | 06        |            |       | J3E-U                 |    |     | Far East language ops  |
| REP | 28205,0        | 07.25        | 12        | 06        | E          |       | A3E                   |    |     | Spanish fishery, strong accent, roger beeps                                  |
| REP | 28215,0        | 06.48        | 13        | 06        |            |       | A3E                   |    |     | Unid language fishermen  |
| REP | 28265,0        | 20.17        | 23        | 06        |            |       | A3E                   |    |     | Brazilian pirates interfering w/beacons                                      |
| REP | 28275,0        | 07.26        | 12        | 06        | E          |       | A3E                   |    |     | Spanish fishery  |
| REP | 28295,0        | 06.50        | 13        | 06        |            |       | A3E                   |    |     | French language ops, strong accents  |
| REP | <b>28505,0</b> | <b>19.49</b> | <b>11</b> | <b>06</b> | <b>G</b>   |       | <b>F3E</b>            |    |     | <b><u>INFRINGE</u> - British Hams ignoring IARI R1 Band Plan</b>             |
| REP | 28700,0        | 15.20        | 17        | 06        | B          |       | A3E                   |    |     | Brazilian pirates  |
| REP | 29250,0        | 12.23        | 14        | 06        |            |       | F1B                   | 82 | 130 | 2 x Sea buoy Datawell Waverider  |
| REP | 29500,0        | 18.55        | 12        | 06        |            |       | F1B                   | 82 | 130 | Sea buoy Datawell Waverider  |
| REP | 29525,0        | 12.21        | 14        | 06        |            |       | F1B                   | 82 | 130 | Sea buoy Datawell Waverider  |
| REP | 29655,0        | 18.24        | 17        | 06        |            |       | FMCW                  |    |     | OTH radar 20KHz  |
| REP | <b>50110,0</b> | <b>20.14</b> | <b>15</b> | <b>06</b> | <b>E</b>   |       | <b>J3E-U</b>          |    |     | <b><u>INFRINGE</u> - Contesting on an intercontinental calling frequency</b> |
| REP | 50145,0        | 12.38        | 15        | 06        |            |       | F3E                   |    |     | Unid op whistling, tuning TX   |

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

| Society | kHz  | UTC  | DD    | MM | ITU | IDENT | MODE           | REMARKS  |
|---------|------|------|-------|----|-----|-------|----------------|--|
| RSGB    | 7100 | 1000 | 13,14 | 06 | G   | NATO  | STANAG<br>4285 | Baldock informed by phone. Signal disappeared 6 minutes later. |

### SRAL – Finland – OH2BLU (Pekka)

| Society | kHz    | UTC           | DD         | MM | ITU | IDENT | MODE | BAUD   | SHIFT  | REMARKS |
|---------|--------|---------------|------------|----|-----|-------|------|--------|--------|---------|
| SRAL    | 7000,0 | 0740-<br>0930 | 12.<br>14. | 6  |     | UiMUX | J7D  | 12x120 | 12x200 |         |
| SRAL    | 7006,0 | 1035          | 12.        | 6  |     | UiPTR | F1B  |        |        |         |

| Society | kHz     | UTC        | DD        | MM | ITU | IDENT       | MODE    | BAUD   | SHIFT  | REMARKS                                   |
|---------|---------|------------|-----------|----|-----|-------------|---------|--------|--------|---|
| SRAL    | 7008,0  | 0100-1930  | *         | 6  | RUS | UiPTR       | F1B     |        | 250    | Days: 6. 8. 9. 12. 13. 20. 23.-26.        |
| SRAL    | 7010,0  | 0645       | 21.       | 6  |     | UiMUX       | J7D     | 12x120 | 12x200 |   |
| SRAL    | 7012,5  | 0645       | 21.       | 6  |     | UiPTR       | F1B     |        | 200    |   |
| SRAL    | 7016,0  | 0210-1920  | *         | 6  | RUS | UiPTR       | F1B     |        | 250    | Kaliningrad, days: 7. 12. 13. 14. 23. 24. |
| SRAL    | 7018,75 | 0200-1610  | *         | 6  |     | UiPTR       | F1B/N0N |        | 250    | Days: 5. 6. 7. 9. 27.                     |
| SRAL    | 7022,0  | 0335-1930  | 3. - 7.   | 6  | RUS | UiMUX       | J7D     | 12x120 | 12x200 | Kaliningrad                               |
| SRAL    | 7031,5  | 0100-1900  | 12. - 14. | 6  | UKR | UiPTR       | F1B     |        | 250    |   |
| SRAL    | 7038,7  | h24        | dly       | 6  | UKR | D           | A1A     |        |        | Sevastopol                                |
| SRAL    | 7038,8  | 2345-0805  | 22. - 30. | 6  | RUS | P           | A1A     |        |        | Kaliningrad, F1B intermodulation          |
| SRAL    | 7038,9  | 0200-1930  | dly       | 6  | RUS | S           | A1A     |        |        | Severomorsk                               |
| SRAL    | 7039,0  | 0200-2230  | dly       | 6  | RUS | C           | A1A     |        |        | Moscow                                    |
| SRAL    | 7047,0  | 0110-1800  | *         | 6  |     | UiMUX       | J7D     | 12x120 | 12x200 | Days: 1. 17. 18.                          |
| SRAL    | 7050,5  | 0200-1930  | 12. 13.   | 6  |     | UiPTR       | F1B     |        | 250    |   |
| SRAL    | 7052,0  | 1200       | 30.       | 6  |     | UiPTR       | F1B     |        |        |   |
| SRAL    | 7054,0  | 0545       | 30.       | 6  |     | UiMUX       | J7D     | 12x120 | 12x200 |   |
| SRAL    | 7064,0  | 0315-0500  | 1. 12.    | 6  |     | UiPTR       | F1B     |        |        | idling                                    |
| SRAL    | 7073,0  | 0810       | 30.       | 6  |     | UiMUX       | J7D     | 12x120 | 12x200 |   |
| SRAL    | 7076,0  | 0855-1340  | 12.       | 6  |     | UiPTR       | F1B/N0N |        | 250    |   |
| SRAL    | 7086,6  | 1300-1400  | 21.       | 6  |     | UiPTR       | F1B     |        |        |   |
| SRAL    | 7091,5  | 1130-1300  | 2.        | 6  |     | UiPTR       | F1B     |        | 250    |   |
| SRAL    | 7093,5  | 1530-1600  | 3.        | 6  | CHN | UiOTHR      | FMCW    |        |        | 80Hz/10 kHz, bursts                       |
| SRAL    | 7099,0  | 0645       | 21.       | 6  |     | UiMUX       | J7D     | 12x120 | 12x200 |   |
| SRAL    | 7111,0  | 1030-1540  | 23. 26.   | 6  |     | UiPTR       | F1B     |        | 250    |   |
| SRAL    | 7120,0  | 1850-1910  | 29.       | 6  |     | UiMUX       | J7D     | 12x120 | 12x200 |   |
| SRAL    | 7120,0  | 1445-1900  | dly       | 6  | SOM | R. Hargeisa | A3E     |        |        |   |
| SRAL    | 7122,0  | 1015-1620  | 3. 13.    | 6  |     | UiPTR       | F1B     |        |        |   |
| SRAL    | 7124,0  | 0905-1610  | 14. 29.   | 6  |     | UiMUX       | J7D     | 12x120 | 12x200 |   |
| SRAL    | 7125,0  | 0330-1930  | *         | 6  | RUS | UiMUX       | J7D     | 12x120 | 12x200 | Kaliningrad, days: 1. 5. 6. 14. 29.       |
| SRAL    | 7132,0  | h24        | 21. - 30. | 6  | RUS | UiMUX       | J7D     | 12x120 | 12x200 | Voronezh                                  |
| SRAL    | 7135,0  | 0440-1825/ | 23.       | 6  |     | UiPTR       | F1B     |        | 250    |   |
| SRAL    | 7137,0  | 1140-1200  | 5.        | 6  |     | UiMUX       | J7D     | 12x120 | 12x200 |   |
| SRAL    | 7142,0  | 1145-1920/ | 7.        | 6  |     | UiMUX       | J7D     | 12x120 | 12x200 |   |
| SRAL    | 7149,0  | 1610       | 24.       | 6  |     | UiPTR       | F1B     |        | 250    |   |
| SRAL    | 7162,0  | 1020-1118/ | 5.        | 6  |     | UiPTR       | F1B     |        | 250    |   |
| SRAL    | 7164,0  | 0505-1700  | 3. 12.    | 6  |     | UiMUX       | J7D     | 12x120 | 12x200 |   |
| SRAL    | 7164,0  | 1650       | 26.       | 6  |     | UiPTR       | F1B     |        | 200    |   |
| SRAL    | 7169,0  | 1600-1930  | 3.        | 6  |     | UiMUX       | J7D     | 12x120 | 12x200 |   |
| SRAL    | 7171,0  | 0630-0700  | 8.        | 6  |     | UiMUX       | J7D     | 12x120 | 12x200 |   |
| SRAL    | 7174,0  | 1635-      | 18.       | 6  |     | UiMUX       | J7D     | 12x120 | 12x200 |   |

| Society | kHz           | UTC        | DD        | MM | ITU       | IDENT           | MODE    | BAUD   | SHIFT  | REMARKS  |
|---------|---------------|------------|-----------|----|-----------|-----------------|---------|--------|--------|--|
|         |               | 1915       | 19.       |    |           |                 |         |        |        |  |
| SRAL    | 7176,0        | 0900-1900  | 9.        | 6  |           | UiPTR           | F1B     |        |        |  |
| SRAL    | 7178,0        | 1830-1930  | 5.        | 6  |           | UiMUX           | J7D     | 12x120 | 12x200 |  |
| SRAL    | 7181,75       | 0100-2030  | 11. – 22. | 6  |           | VQSO            | F1A/N0N |        | 250    | MR 5BL   |
| SRAL    | 7182,0        | 1625       | 2.        | 6  |           | UiCW            | A1A     |        |        | MR 5BL   |
| SRAL    | 7184,0        | 1640-1915  | *         | 6  |           | UiMUX           | J7D     | 12x120 | 12x200 | Days: 11. 21. 28.                                  |
| SRAL    | 7197,0        | 0645-1630  | 21. 26.   | 6  |           | UiMUX           | J7D     | 12x120 | 12x200 |  |
| SRAL    | 7195,0-7200,0 | 1730-2030  | dly       | 6  | RUS       | RRI             | A3E     |        |        | Splatter from BC-band                              |
| SRAL    | 7200,0        | 0745-0900  | 1.        | 6  |           | UiPTR           | F1B     |        | 500    |  |
| SRAL    | 7200,0        | 2215       | 21.       | 6  |           | UiBC            | A3E     |        |        |  |
| SRAL    | 7201,0        | 1755-1802/ | 24.       | 6  | CHN       | RCI             | A3E     |        |        | QSY to 7205 kHz 1802                               |
| SRAL    | 14 MHz        | 0600       | 3.        | 6  | RUS       | UiOTHR          | FMCW    |        |        | 50Hz/10 kHz  |
| SRAL    | 14 MHz        | 1900-1930  | 13.       | 6  | CHN       | UiOTHR          | FMCW    |        |        | 67Hz/10 kHz  |
| SRAL    | 14000,0       | 1440-1510/ | 19.       | 6  |           | UiCarr          | N0N     |        |        |  |
| SRAL    | 14008,0       | 0705-1240  | *         | 6  |           | UiPTR           | F1B     |        | 250    | Days: 2. 3. 5. 7. 9. 12. 13. 27.                   |
| SRAL    | 14026,0       | 1110       | 23.       | 6  | RUS       | UiMUX           | J7D     | 12x120 | 12x200 |  |
| SRAL    | 14028,0       | 1400-1430  | 19.       | 6  |           | UiPTR           | F1B     |        | 250    |  |
| SRAL    | 14097,0       | 1200       | 11.       | 6  |           | UiPTR           | F1B     |        |        |  |
| SRAL    | 14116,0       | 0850-0920  | 10.       | 6  |           | UiPTR           | F1B     |        | 250    |  |
| SRAL    | 14142,0       | 0515-0902/ | 6.        | 6  |           | UiPTR           | F1B     |        | 250    |  |
| SRAL    | 14160,0       | 0540       | 25.       | 6  |           | UiPTR           | F1B     |        | 250    |  |
| SRAL    | 14162,0       | 0955-1045  | 4.        | 6  |           | UiMUX           | J7D     | 12x120 | 12x200 |  |
| SRAL    | 14169,0       | 1330       | 25.       | 6  |           | UiPTR           | F1B     |        | 250    |  |
| SRAL    | 14184,9       | 1300       | 25.       | 6  |           | UiPTR           | F1B     |        | 500    | MR up 250 Hz                                       |
| SRAL    | 14192,0       | 0700-1700  | dly       | 6  | RUS       | UiPTR           | F1B     |        | 200    | Kaliningrad, intermod "P" on 29. 30.               |
| SRAL    | 14196,0       | 1230       | 5.        | 6  |           | UiPTR           | F1B     |        | 200    |  |
| SRAL    | 14221,0       | 1900-0500  | dly       | 6  | RUS       | UiPTR           | F1B     |        | 200    | Moscow   |
| SRAL    | 14238,0       | 0505-0535  | 26. 27.   | 6  |           | UiPTR           | F1B     |        | 250    |  |
| SRAL    | 14240,0       | 0800-1625  | 4. 30.    | 6  | RUS       | UiPTR           | F1B     |        | 200    | Kaliningrad  |
| SRAL    | 14258,0       | 0735-1615  | *         | 6  |           | UiPTR           | F1B     |        | 500    | Days: 20. 21. 25.                                  |
| SRAL    | 14292,0       | 0545-0615  | *         | 6  |           | LT2S            | A1A     |        |        | MR 5BL, days: 4. 7. 18.                            |
| SRAL    | 14294,0       | 1035-1920  | 13. – 16. | 6  | RUS       | UiMUX           | J7D     | 12x120 | 12x200 | Vladivostok  |
| SRAL    | 14295,2       | h24        | dly       | 6  | TJK       | R<br>Tojikiston | A3E     |        |        | 3f 4765,07 kHz, Yangiyul TX                        |
| SRAL    | 18 MHz        | 0400-1800  | *         | 6  | CYP / TUR | UiOTHR          | FMCW    |        |        | 50Hz / 20 kHz, 6 reports, days: 7. 10. 11. 12. 18. |
| SRAL    | 21 MHz        | 0930-1215  | 5.        | 6  | CYP / TUR | UiOTHR          | FMCW    |        |        | 50Hz / 20 kHz, 19 reports                          |
| SRAL    | 21 MHz        | 1035       | 5.        | 6  | CHN       | UiOTHR          | FMCW    |        |        | 33.3Hz / 10 kHz, bursts                            |
| SRAL    | 24 MHz        | 0610       | 6.        | 6  | CYP / TUR | UiOTHR          | FMCW    |        |        | 50Hz / 20 kHz                                      |
| SRAL    | 28 MHz        | 0800-1200  | 30.       | 6  | IRN       | UiOTHR          | FMCW    |        |        | 307/870Hz / 60 kHz, 4 reports                      |
| SRAL    | 28 MHz        | 0810-      | *         | 6  | RUS       | Taxi disp.      | F3E     |        |        | Days: 5. 21. 30. 21                                |

| Society | kHz | UTC  | DD | MM | ITU | IDENT | MODE | BAUD | SHIFT | REMARKS |
|---------|-----|------|----|----|-----|-------|------|------|-------|---------|
|         |     | 1430 |    |    |     |       |      |      |       | reports |

### USKA – Switzerland – HB9CET (Peter)

| SOC  | kHz      | UTC  | DD | MM | ITU | IDENT | MODE    | BD      | SH (BW) | DETAILS  |
|------|----------|------|----|----|-----|-------|---------|---------|---------|--|
| USKA | 6999.0   | 0708 | 12 | 06 |     |       | J7D     | 12x120  | 2k7     | PSK-2: CIS12 = AT3004D partially in the 40m band |
| USKA | 7000.0   | 0856 | 26 | 06 |     |       | J7D     | 12x120  | 2k7     | PSK-2: CIS12 = AT3004D partially in the 40m band |
| USKA | 7004.5   | 1254 | 24 | 06 |     |       | F1B     | 40.5    | 250     |  |
| USKA | 7008.0   | 1137 | 12 | 06 |     |       | F1B     | 75      | 250     | often  |
| USKA | 7016.0   | 1210 | 23 | 06 |     |       | F1B     | 75      | 250     |  |
| USKA | 7031.5   | 2148 | 13 | 06 |     |       | F1B     | 40.5    | 250     | CIS 81 in 40.5 mode                              |
| USKA | 7037.238 | 2213 | 13 | 06 |     | D     | A1A     |         |         | Beacon D (malfunction ?)                         |
| USKA | 7038.7   | 2101 | 10 | 06 | UKR | D     | A1A     |         |         | Beacon D Sevastopol daily                        |
| USKA | 7038.8   | 2142 | 22 | 06 | RUS | P     | A1A     |         |         | Beacon P Kaliningrad daily                       |
| USKA | 7038.9   | 1021 | 10 | 06 | RUS | S     | A1A     |         |         | Beacon S Murmansk daily                          |
| USKA | 7039.0   | 2103 | 10 | 06 | RUS | C     | A1A     |         |         | Beacon C Moscow daily                            |
| USKA | 7039.4   | 1020 | 10 | 06 | RUS | M     | A1A     |         |         | Beacon M Magadan daily                           |
| USKA | 7047.0   | 2135 | 13 | 06 |     |       | J7D     | 12x120  | 2k7     | PSK-2: CIS12 = AT3004D often                     |
| USKA | 7070.0   | 2322 | 12 | 06 |     | 571   | MFSK8   | 125     | 1750    | MIL 188-141A daily                               |
| USKA | 7070.0   | 0141 | 13 | 06 |     | 514   | MFSK8   | 125     | 1750    | MIL 188-141A daily                               |
| USKA | 7070.0   | 0145 | 13 | 06 |     | 244   | MFSK8   | 125     | 1750    | MIL 188-141A daily                               |
| USKA | 7070.0   | 0322 | 22 | 06 |     | 465   | MFSK8   | 125     | 1750    | MIL 188-141A                                     |
| USKA | 7089.8   | 1912 | 26 | 06 |     |       | G1D     | 2400    | 2k6     | PSK-8: Link 11- SLEW often                       |
| USKA | 7100.0   | 0804 | 17 | 06 |     |       | J7D     | 12x120  | 2k7     | PSK-2: CIS12 = AT3004D                           |
| USKA | 7118.0   | 2231 | 24 | 06 |     |       | F1B     | 75      | 250     |  |
| USKA | 7120.0   | 1658 | 11 | 06 | SOM |       | A3E     |         |         | Radio Hargeisa daily                             |
| USKA | 7124.0   | 0830 | 14 | 06 |     |       | J7D     |         | 2k7     | CIS12 system, 13 carriers only                   |
| USKA | 7132.0   | 2138 | 22 | 06 |     |       | J7D     |         | 2k7     | CIS12 system, 13 carriers only                   |
| USKA | 7132.0   | 1213 | 23 | 06 |     |       | J7D     | 12x120  | 2k7     | PSK-2: CIS12 = AT3004D                           |
| USKA | 7160.0   | 0914 | 19 | 06 |     |       | J7D     | 12x120  | 2k7     | PSK-2: CIS12 = AT3004D                           |
| USKA | 7174.0   | 2024 | 18 | 06 |     |       | J7D     | 12x120  | 2k7     | PSK-2: CIS12 = AT3004D                           |
| USKA | 14000.0  | 0904 | 19 | 06 |     |       | N0N     |         |         | long lasting carrier often                       |
| USKA | 14008.0  | 0747 | 24 | 06 |     |       | F1B     | 50      | 250     | CIS 36-50 almost daily                           |
| USKA | 14019.0  | 0824 | 24 | 06 |     |       | F1B     | 50      | 200     |  |
| USKA | 14118.0  | 1249 | 19 | 06 |     |       | J7D     | 12x120  | 2k7     | PSK-2: CIS12 = AT3004D                           |
| USKA | 14140.0  | 2119 | 20 | 06 |     |       | J7D     | 12x120  | 2k7     | PSK-2: CIS12 = AT3004D                           |
| USKA | 14174.0  | 1505 | 13 | 06 |     |       | J7D     | 12x120  | 2k7     | PSK-2: CIS12 = AT3004D                           |
| USKA | 14192.0  | 1015 | 10 | 06 |     |       | F1B     | 50      | 200     | almost daily                                     |
| USKA | 14198.5  | 0649 | 12 | 06 |     |       | F1B     | 600     | 600     | often  |
| USKA | 14221.0  | 2000 | 11 | 06 |     |       | F1B     | 50      | 200     | almost daily                                     |
| USKA | 14221.0  | 2137 | 20 | 06 |     |       | F1B     | 75      | 200     |  |
| USKA | 14238.0  | 0838 | 27 | 06 |     |       | F1B     | 75      | 250     |  |
| USKA | 14270.0  | 1653 | 13 | 06 |     |       | FMCW    | 68 sps  | ~10k    | OTHR; Burst system BD 3.8s; BRI 45s              |
| USKA | 14293.8  | 2301 | 17 | 06 |     |       | PSK     |         | ~2k4    | idling   |
| USKA | 14293.8  | 1959 | 22 | 06 |     |       | BPSK    | 1200    | ~2k4    | CIS 1200 system                                  |
| USKA | 14294.0  | 1509 | 13 | 06 |     |       | J7D     | 12x120  | 2k7     | PSK-2: CIS12 = AT3004D                           |
| USKA | 14325.0  | 2226 | 16 | 06 |     |       | FMCW    | 47 sps  | 10k     | OTHR BD 5.5s BRI 36s                             |
| USKA | 14331.0  | 2236 | 11 | 06 |     |       | FMCW    | 67 sps  | ~10k    | OTHR; Burst system BD 3.8s; BRI 45s              |
| USKA | 14344.65 | 2004 | 10 | 06 |     |       | PSK-8   | 2400    | 2k4     | MIL188-100 Hybrid, burst daily                   |
| USKA | 21062.0  | 1459 | 22 | 06 |     |       | J7D     | 12x120  | 2k7     | PSK-2: CIS12 = AT3004D often                     |
| USKA | 21094.0  | 0931 | 22 | 06 |     |       | J7D     | 12x120  | 2k7     | PSK-2: CIS12 = AT3004D often                     |
| USKA | 21438.0  | 0800 | 16 | 06 |     |       | A1A     |         |         | no ham content often                             |
| USKA | 28000.0  | 0754 | 13 | 06 |     |       | J3E-U   |         | ~5k     | unid language                                    |
| USKA | 28000.0  | 1429 | 19 | 06 |     |       | N0N     |         |         | long lasting carrier often                       |
| USKA | 28045.8  | 1426 | 13 | 06 |     | BW    | N0N/A1A |         |         | Fishery buoy                                     |
| USKA | 28236.0  | 1751 | 11 | 06 |     |       | ?       | var sps | ~50k    | unid OTHR BD ~ 3.2s; BRI                         |
| USKA | 28280.0  | 1756 | 11 | 06 |     |       | ?       | var sps | ~50k    | unid OTHR  |
| USKA | 29250.0  | 1312 | 13 | 06 |     |       | F1B     | 81.9    | 140     | Datawell buoy daily                              |
| USKA | 29375.0  | 1758 | 11 | 06 |     |       | ?       | var     | >50k    | unid OTHR often                                  |
| USKA | 29500.0  | 1754 | 11 | 06 |     |       | F1B     | 81.9    | 140     | Datawell buoy daily                              |



**Veron 1 – Netherlands – PA2GRU (Dick)**

| SOC   | kHz     | UTC   | DD | MM | ITU | IDENT    | MODE  | SHIFT | DETAILS                                   |
|-------|---------|-------|----|----|-----|----------|-------|-------|---|
| VERON | 7000,0  | 07.47 | 13 | 6  | F   | UiILL    | J3E-u |       | French, male voices                       |
| VERON | 7008,0  | 19.12 | 24 | 6  | RUS | UiPtr    | F1B   | 250   | Ptr,                                      |
| VERON | 7019,0  | 18.01 | 3  | 6  |     | UiCW     | A1A   |       | nr 90 J 03 20:01:42 1985 bt 5L            |
| VERON | 7019,0  | 18.08 | 3  | 6  |     | UiCW     | A1A   |       | nr 01 J 03 20:07:59 1985 bt 5L            |
| VERON | 7038,7  | 19.00 | 24 | 6  | UKR | D        | A1A   |       | beacon, Navy                              |
| VERON | 7038,7  | 21:06 | 22 | 6  |     | D        | A1A   |       | Beacon Sevastopol                         |
| VERON | 7038,8  | 21:06 | 22 | 6  |     | P        | A1A   |       | Beacon Kaliningrad; bad modulation        |
| VERON | 7038,9  | 20:30 | 8  | 6  |     | S        | A1A   |       | Beacon Severomorsk                        |
| VERON | 7050,0  | 07.07 | 29 | 6  | UK  | UiILL    | J3E-u |       | English, male voices, fishery             |
| VERON | 7056,5  | 18:26 | 8  | 6  |     | UiMux    | FSK8  | 2k    |   |
| VERON | 7120,0  | 17.51 | 16 | 6  | SOM | Radio H. | A3E   |       | speech                                    |
| VERON | 7132,0  | 22:37 | 22 | 6  |     | UiMux    | FSK8  | 2k    |   |
| VERON | 7173,0  | 21:33 | 8  | 6  |     |          |       |       | Frequency hopper                          |
| VERON | 7197,0  | 22:23 | 22 | 6  |     |          |       |       | Frequency hopper                          |
| VERON | 10118,0 | 08.57 | 2  | 6  |     | UiPTR    | F1B   |       | Ptr                                       |
| VERON | 10144,0 | 15.04 | 17 | 6  | CIS | YTNI     | A1A   |       | OFV3 de YTNI k (calls)                    |
| VERON | 14008,0 | 07.17 | 27 | 6  | RUS | UiPtr    | F1B   |       | Ptr, 07.18 utc qrt                        |
| VERON | 14008,0 | 09.07 | 2  | 6  | CIS | UiPTR    | F1B   |       | Carrier/Revs/Ptr (also at: 13/6 and 22/6) |
| VERON | 14016,0 | 08.17 | 19 | 6  | CIS | MY5Y     | A1A   |       | Proc's/Q-codes                            |
| VERON | 14026,0 | 10.37 | 23 | 6  | RUS | UiMUX    | PSK2  |       | 12 MPSK AT3004-D                          |
| VERON | 14028,0 | 14.26 | 19 | 6  | RUS | UiPtr    | F1B   | 250   | Ptr, 14.27 utc qrt                        |
| VERON | 14108,0 | 09.29 | 1  | 6  | CIS | UiCW     | A1A   |       | 5BL (ending 003 ar)                       |
| VERON | 14108,0 | 11.53 | 3  | 6  | CIS | SLIT     | A1A   |       | AILO de SLIT QBE QYT6 k                   |
| VERON | 14108,0 | 08.11 | 13 | 6  | CIS | UiCW     | A1A   |       | XXX 15SF C1OB JFB5 OEUN 57645             |
| VERON | 14108,0 | 08.11 |    |    |     |          |       |       | 8.509 96779 08834 WEREHA 1021 8977 k      |
| VERON | 14108,0 | 09.00 | 17 | 6  | CIS | UiCW     | A1A   |       | Y1CQ QTC ZRB ar                           |
| VERON | 14108,0 | 09.02 | 17 | 6  | CIS | 3RKA     | A1A   |       | 399 20 171248 399 = ZRB 625 DDDDD 5BL     |
| VERON | 14108,0 | 09.09 | 17 | 6  | CIS | 3RKA     | A1A   |       | de 3RKA Calls (to: 8WLH TUJB FSQM         |
| VERON | 14108,0 | 09.09 |    |    |     |          |       |       | LT5V FIKA X6MK) r 399 ? K                 |
| VERON | 14108,0 | 09.11 | 17 | 6  | CIS | 3RKA     | A1A   |       | SOW5 de 3RKA QTA 399 k                    |
| VERON | 14108,0 | 10.12 | 19 | 6  | CIS | 3RKA     | A1A   |       | FIKA de 3RKA QBE QYT9 k QYT6 k            |
| VERON | 14120,0 | 21:13 | 22 | 6  |     | UiPtr    | F1B   | 200   | Printer; bad filtered                     |
| VERON | 14165,3 | 08.12 | 19 | 6  |     | UiCW     | A1A   |       | Dotter                                    |
| VERON | 14185,0 | 09.37 | 11 | 6  |     | OTHR     | FMCW  |       | radar, wide                               |
| VERON | 14191,5 | 15:03 | 1  | 6  |     |          |       |       | White noise jammer                        |
| VERON | 14191,8 | 10:10 | 23 | 6  |     | P        | A1A   |       | Beacon Kaliningrad                        |
| VERON | 14192,0 | 12.50 | 1  | 6  |     | UiPTR    | F1B   |       | Revs/Ptr (also at 3/6 and 19/6)           |
| VERON | 14208,0 | 15:07 | 1  | 6  |     | UiBC     | A3E   |       | Very bad modulation                       |
| VERON | 14220,0 | 19.18 | 20 | 6  | RUS | UiPtr    | F1B   | 150   | Revs                                      |
| VERON | 14237,0 | 13.26 | 1  | 6  |     |          |       |       | Frequency hopper                          |
| VERON | 14240,0 | 08.28 | 4  | 6  |     | UiPTR    | F1B   |       | Ptr                                       |
| VERON | 14258,0 | 10.49 | 20 | 6  | RUS | UiPtr    | F1B   | 500   | Ptr,                                      |
| VERON | 14260,0 | 10.16 | 10 | 6  |     | UiPtr    | F1B   | 400   | Ptr, F1A 30 qtc y32-30-42820 etc          |
| VERON | 14261,0 | 07.45 | 14 | 6  |     | UiMUX    | F1B   |       | Mix 5F/Ptr (on: same Freq)                |
| VERON | 14294,0 | 11.16 | 26 | 6  | RUS | UiMUX    | PSK2  |       | 12 MPSK AT3004-D                          |
| VERON | 14299,0 | 12:29 | 8  | 6  |     |          |       |       | Frequency hopper                          |
| VERON | 14323,0 | 21.22 | 7  | 6  | E   | UiILL    | J3E-u |       | Spanish, male voices, fishery             |
| VERON | 18091,5 | 08.10 | 3  | 6  |     | UiPTR    | F1B   |       | Idling                                    |

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

**Many thanks for your interest!**

**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**

**July 2013**