



Monitoring System

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The monthly newsletter for Region 1

March 2014

The 27 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: EI5DD – Steve ++ KARS: 9K2RR – Faisal ++
- ++ MARL: 9H1M – Dominic ++ MRASZ: HA7PL - Laci ++ NARS: 5N9AYM – Yusuf ++ NRRL: LA4EU – Hans Arne ++
- ++ OEVSV: OE3GSA – Gerd ++ PZK: SP9BRP – Jan ++ RAL: OD5RI – Riri ++ REF: F5MIU – Francis ++ REP: CT4AN – Jose
- ++ RSGB: G4BOH - Chris ++ SARL: ZS1FCS - Fred ++ SRAL: OH2BLU - Pekka ++ SSA – Ullmar ++ UBA: ON4PN - Patrick
- ++ URE: EB1TR - Fabian ++ 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

1. A new member in our team – F5MIU

The IARU Monitoring System Region 1 has now 27 members. Francis is the new REF Monitoring System Coordinator. Welcome to our family dear Francis Boulot, F5MIU. Here his introduction:

I am Jean-Francis BOULOT, actually F5MIU but before I have being :

F1AIJ in 1968, ZR6ME for 8 years in South Africa, VK6AJB for 2 years at Perth, K2/FE5MIU at Tuscaloosa Alabama, and now F5MIU, at my different business affectations. Professionally, I have being On board aeronautical engineer radar, X-ray Engineer in RSA & Australia, computer process controller in Thailand & USA, last System Architect on armored radio-communication systems (tank) and now, ... retired !!!

The actual station :

- Collins HF80 rack with 851-S1 Rx, HF-8010 1.5 to 30MHz exciter ant HF-8020 HF 1KW linear amplifier, all rebuild from scrap !
- Icom-756 proIII to confirm intruders
- TS-790 for VHF-UHF
- SDR Transfox TRx covering 1 to 1600MHz, best for intruder's monitoring
- TA33jr 3 elem beam 20-15-10m
- ECO 4 elem beam 40-30-20-17-15-12-10-6m (after modification !)
- Trap dipole 80-40m plus 17-12m
- 18AVQ 5 bands vertical

Project : Gonio antenna covering 450 to 14000kHz (above beam antenna are doing well).

Thanks for the support, all is new now, I think I will need a month to get on top !

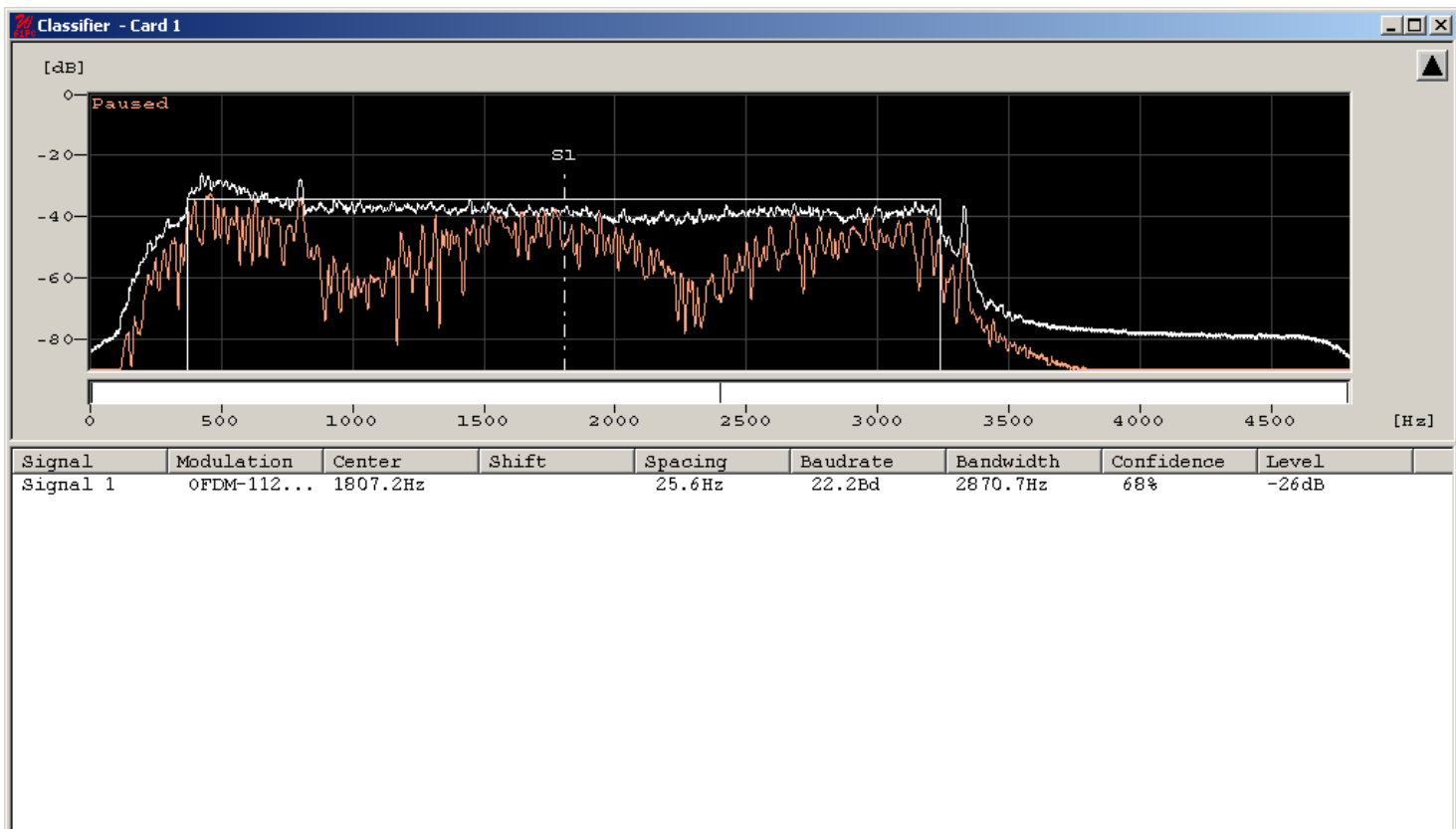
2. Spurious BC emissions

7190 daily disturbed by Voice of Turkey on 7205 kHz from 1830 – 1930 utc. The German PTT sent an official complaint. TA1E had been informed and tried to help.

21445 daily disturbed by IRIB Tehran on 21510 kHz from 1020 – 1120 utc. The German PTT was informed.

3. MIL emissions

Russian MIL stations produced many harmonic emissions as before. Even the cluster beacon "F" (7039.2 kHz) at Vladivostok was audible on 14078.4 kHz, too. Observed by remote Japan. Many other MIL emissions from Russia were also observed. The screenshot below shows a Russian OFDM 112 system on 14000 kHz analyzed by the **Wavcom W-Code Classifier (W-Code V. 8.500)**. Screenshot: DK2OM



11. Homepage IARU Region 1

<http://www.iaru-r1.org/>

Homepage IARUMS Region 1

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

Homepage IARUMS Region 2

<http://www.iaru-r2.org/>

Homepage IARUMS Region 3

<http://www.iaru-r3.org/ms/>

Intruderlogger Region 1

<http://peditio.net/intruder/bluechat.cgi>

ITU-Monitoring Reports:

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

Greetings from DJ9KR – Uli – earlier IARUMS Region 1 Vice Co-ordinator

Dear fellow Intruder Busters,

Wolf Hadel, DK2OM, has asked me to give you a "life sign" how I am feeling now in spring 2014.

Well, on February 29, 2014 (sri, there is only February 28 in 2014!) I "celebrated" 50 years of my ham radio license. I had my license exam on February 29, 1964, 50 years ago. I know this date so well, as this exam took place on my 24th birthday.



50 years later:



The first steps of Benedikt, grandson of DJ9KR, in order to become a radio amateur



I want to wish Wolf DK2OM and his worldwide crew a lot of success monitoring and hunting the various intruders in our exclusive ham radio bands. Good luck, and keep up your good work!

Ulrich Bihlmayer, DJ9KR

March 2014

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 MARCH 2014

There were the usual broadcasts from Radio Hargeisha on 7120 kHz, Khartoum on 7200 kHz, An unidentified net which seems to be somewhere in central Africa is frequently on 7075 kHz and what may be military on 7000 kHz. Almost two weeks spent at Kilifi on the coast this month were spent with a power cut over six days and more, so no serious listening was possible.

E.H.M. Alleyne, 5Z4NU

ARSK – Kenya – 5Z4NU (Ted)

| H'd by | kHz | UTC | DD | MM | ITU | IDENT | MODE | Details |
|--------|---------|-----------------------|----------|----|-------------------|--------------|------|---|
| ARSK | 7,000.0 | vt | dly | 3 | E. Africa | NGO? | J3E | Vernacular, English. Messages in phonetics. |
| ARSK | 7,075.0 | vt | dly | 3 | E. Africa | ? | J3E | Unknown African language |
| ARSK | 7120.0 | vt | dly | 3 | Rep.of Somaliland | Hargeisha | A3E | Daily broadcasts. |
| ARSK | 7195.0 | 0650 to mid-afternoon | 10 to 30 | 3 | UGA | Uganda Radio | A3E | B'cast in KiSwahili, music, Luganda & English, to about 1200Z or later. |

DARC 1 – Germany – DG0JBJ (Mario) – OTH radar intrusions

DG0JBJ (Mario) observed 43 OTH radars on 20 m, 49 OTH radars on 15 m and 109 OTH radars on 10 m in March 2014. Russian OTH radars are active again on 20 m with 10 and 50 sps!

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 | 2024 | 05 | 03 | RUS | | USB LSB | | | 14 tones – hyperbolic radio navigation system – BRAS-3/RS-10 – Kaliningrad – daily, all day |
| DK2OM | 1880,0 | 1925 | 19 | 03 | BEL | | PSK8 | 2400 | 2400 | Stanag4285 – 600 bps long – area of Brugge – Belgium - daily |
| DK2OM | 1881,4 | ady | dly | 03 | F | | QPSK | 100 | 100 | BC-PSK – radio navigation – Nantes – daily, all day |
| DK2OM | 1896,5 | ady | dly | 03 | D | | PSK8 | 2400 | 2400 | Stanag4285 – 600 bps long – German Navy – daily, all day |
| DK2OM | 1925,0 | vt | dly | 03 | I | IPL | USB | | | Livorno Radio, weather reports – daily, vt |
| DK2OM | 3500,0 | vt | vd | 03 | E | | USB | | | Spanish fishery – every evening La Coruna and Bay of Biscay |
| DK2OM | 3500,0 | vt | dly | 03 | TUR | | FSK8 | 120 | 1750 | ALE, “201” - Turkish Red |

| DK2OM | kHz | UTC | DD | MM | ITU | IDENT | MODE | BD | SH/SP | DETAILS |
|-------|---------------|-------------|------------|-----------|------------|--------|--------------|------------|--------------|---|
| | | | | | | | | | | Crescent – legal! |
| DK2OM | 3500,0 | 1850 | 27 | 03 | F | | USB | | | French fishery |
| DK2OM | 3500,3 | 2210 | 08 | 03 | CIS | | A3E | | | CIS pirates, unstable carrier |
| DK2OM | 3501,0 | 1730 | 18 | 03 | RUS | | F1B | 81 | 250 | Kaliningrad |
| DK2OM | 3501,0 | 2234 | 22 | 03 | BLR | | PSK4B | 12 | 2600 | AT3104D – area of Brest, West-BLR |
| DK2OM | 3501,5 | 1933 | 26 | 03 | CIS | | A3E | | | CIS pirates, unstable carrier |
| DK2OM | 3502,3 | 1918 | 08 | 03 | CIS | | A3E | | | CIS pirates, unstable carrier |
| DK2OM | 3503,5 | vt | dly | 03 | G | no ITU | FSK8 | 125 | 1750 | ALE – “XSS” “XPU” “XJR” – British MIL Tascomm – vt, daily - legal! |
| DK2OM | 3503,7 | 2056 | 06 | 03 | ISR | | PSK4 PSK8 | 75 2400 | 2400 2400 | hybrid modem – ISR Navy – PSK4 parallel and PSK8 serial – legal operation |
| DK2OM | 3504,2 | 1855 | 24 | 03 | CIS | | A3E | | | CIS pirates, unstable carrier |
| DK2OM | 3509,5 | 2026 | 12 | 03 | MEa | | PSK2 | 120 | 2600 | AT3004D – submode idle - ship Black Sea |
| DK2OM | 3515,6 | 1958 | 09 | 03 | CIS | | A3E | | | CIS pirates, unstable carrier |
| DK2OM | 3517,4 | vt | vd | 03 | E | | LSB | | | Spanish fishery |
| DK2OM | 3520,0 | 2100 | 11 | 03 | HOL | | USB | | | Dutch fishery |
| DK2OM | 3520,0 | 1850 | 24 | 03 | E | | USB | | | Spanish fishery – also: 27.03.2014 at 1917 utc and daily |
| DK2OM | 3527,0 | 2024 | 05 | 03 | RUS | | F1B | 50 | 200 | Severomorsk - daily |
| DK2OM | 3527,0 | 2013 | 06 | 03 | UKR | | USB | | | man and woman in RUS voice - Odessa |
| DK2OM | 3530,0 | vt | dly | 03 | | | FSK8 | 125 | 1750 | ALE, “11141” |
| DK2OM | 3531,5 | 1720 | 04 | 03 | CIS | | A3E | | | CIS pirates, unstable carrier |
| DK2OM | 3531,6 | 2120 | 05 | 03 | FEa | | PSK2 | 1350 | 1350 | unid data bursts with intro tones |
| DK2OM | 3532,0 | 2215 | 07 | 03 | F | | PSK4 | 75 | 2400 | LINK11-CLEW on both sidebands (5800 Hz wide) – area of Brest – legal! |
| DK2OM | 3535,6 | 2034 | 11 | 03 | HOL | | USB | | | Dutch fishery |
| DK2OM | 3540,0 | 1841 | 23 | 03 | CHN | | FMCW | | 50k 55k | Chinese OTH radar – 3540 – 3590 kHz and 3760 – 3815 kHz 43.5 sps |
| DK2OM | 3540,0 | 2042 | 27 | 03 | RUS | | FMCW | | 50k | OTHR – 43.5 sps – 3540 – 3590 kHz – Makhachkala – Caspian Sea |
| DK2OM | 3548,0 | 1926 | 24 | 03 | RUS | | F1B | 50 | 200 | Kaliningrad |
| DK2OM | 3550,0 | vt | vd | 03 | ALG | | FSK8 | 125 | 1750 | ALE, “IU50” “IU52” “FN50” |
| DK2OM | 3550,0 | vt | dly | 03 | F | | A3E | | | French amateurs not respecting the bandplans (unstable carriers) – every morning |
| DK2OM | 3550,0 | 2100 | 21 | 03 | F | | USB | | | French fishery |
| DK2OM | 3550,5 | 1936 | 04 | 03 | ISR | | PSK4 PSK8 | 75 2400 | 2400 2400 | hybrid modem – ISR Navy – PSK4 parallel and PSK8 serial – legal operation |
| DK2OM | 3550,7 | 1930 | 17 | 03 | UKR | | F1D | 1200 | 1200 | unid system – Ukraine – long lasting |
| DK2OM | 3552,0 | 1838 | 26 | 03 | RUS | | F1B | 50 | 200 | CIS50-50 – ship – North-East Baltic Sea |
| DK2OM | 3553,8 | ady | dly | 03 | TUR | | PSK8 | 2400 | 2400 | Stanag4285 – TUR MIL - Ankara – legal operation |
| DK2OM | 3557,5 | 1939 | 25 | 03 | RUS | | PSK4B | 120 | 2600 | AT3104D – west of Kirov |
| DK2OM | 3560,0 | 2000 | 14 | 03 | | | USB | | | Scandinavians |
| DK2OM | 3567,0 | vt | dly | 03 | CHN ? | | FSK8 | 125 | 1750 | ALE, “103” “106” |
| DK2OM | 3570,0 | 1734 | 03 | 03 | RUS | | PSK2A | 120 | 2600 | AT3004D - Kaliningrad |
| DK2OM | 3571,0 | 2037 | 22 | 03 | RUS | | PSK4B | 120 | 2600 | AT3104D - Kaliningrad |
| DK2OM | 3576,4 | ady | dly | 03 | I | IZ3DVW | A1A | | | uncoordinated beacon |
| DK2OM | 3580,0 | 2120 | 17 | 03 | F | | USB | | | French fishery |
| DK2OM | 3582,0 | 1821 | 21 | 03 | BLR | | PSK2A | 120 | 2600 | AT3004D – area of Minsk |
| DK2OM | 3585,0 | 2000 | dly | 03 | TWN | HLL | F1C | | | 120 rpm, IOC 576, Wxfax - daily - legal! |
| DK2OM | 3587,0 | vt | vd | 03 | E | no ITU | FSK8 | 125 | 1750 | ALE, “TVV” “TXX” - Spanish Guardia Civil |

| DK2OM | kHz | UTC | DD | MM | ITU | IDENT | MODE | BD | SH/SP | DETAILS |
|-------|--------|------|-----|----|-----------|--------|---------|------|-------|--|
| DK2OM | 3587,0 | 1950 | 16 | 03 | UKR | | PSK2A | 120 | 2600 | AT3004D |
| DK2OM | 3590,0 | vt | dly | 03 | PAK | no ITU | FSK8 | 125 | 1750 | ALE, "KW" "KHAIBAR" – Pakistan navy |
| DK2OM | 3592,0 | 1738 | 09 | 03 | UKR | | PSK2A | 120 | 2600 | AT3004D – submode idle and traffic – area of Crimea |
| DK2OM | 3595,0 | vt | dly | 03 | D | | FSK8 | 125 | 1750 | ALE – German customs |
| DK2OM | 3595,0 | 1951 | 24 | 03 | RUS | | USB | | | woman in Russian voice – St. Peterburg |
| DK2OM | 3596,0 | vt | dly | 03 | D, S, HRV | | FSK8 | 125 | 1750 | ALE, "DK3CW" "SA6CBK" "9A0PZ" – just for info! |
| DK2OM | 3596,0 | 1954 | 24 | 03 | UKR | | PSK2 | 120 | 2600 | AT3004D – submode idle - Lviv |
| DK2OM | 3597,5 | 2132 | 14 | 03 | UKR | | PSK2A | 120 | 2600 | AT3004D – traffic and submode idle - west of Kyiv |
| DK2OM | 3600,0 | 2035 | 27 | 03 | RUS | | PSK2A | 120 | 2600 | AT3004D - Kaliningrad |
| DK2OM | 3600,2 | 1848 | 27 | 03 | ? | | F1B | 75 | 1000 | |
| DK2OM | 3602,0 | 2037 | 10 | 03 | RUS | | PSK4B | 120 | 2600 | AT3104D - Kaliningrad |
| DK2OM | 3617,0 | vt | dly | 03 | HRV | 9A5EX | FSK8 | 125 | 1750 | ALE, "9A5EX" – HAM-ALE - just for info |
| DK2OM | 3622,5 | 1900 | dly | 03 | J | JMH | F1C | | | Tokyo Meteo – 120 rpm – IOC576 – daily, legal!!! |
| DK2OM | 3659,0 | 1705 | 28 | 03 | RUS | | PSK2A | 120 | 2600 | AT3004D - Kaliningrad |
| DK2OM | 3660,0 | 1836 | 13 | 03 | CHN | | FMCW | | 120k | Chinese OTH radar – 3660 – 3780 kHz – 43.5 sps |
| DK2OM | 3670,0 | 1448 | 26 | 03 | CHN | | FMCW | | 100k | Chinese OTH radar – 3670 – 3770 kHz – 43.5 sps |
| DK2OM | 3710,0 | 1812 | 05 | 03 | RUS | | FMCW | | 30k | OTHR – 43.5 sps – 3710 – 3740 kHz – Makhachkala – Caspian Sea |
| DK2OM | 3710,0 | 2125 | 06 | 03 | RUS | | FMCW | | 35k | OTHR – 43.5 sps – 3710 – 3745 kHz - Makhachkala – Caspian Sea |
| DK2OM | 3751,5 | vt | dly | 03 | POL | no ITU | FSK8 | 125 | 1750 | ALE, "IZ3" "MI3" |
| DK2OM | 3756,0 | ady | dly | 03 | UKR | | A3E | | | UKR – pip – 14 tones – hyperbolic navigation system – BRAS-2/RS-10 |
| DK2OM | 3760,0 | 1915 | 25 | 03 | RUS | | FMCW | | 40k | OTHR – 43.5 sps – 3760 – 3800 kHz – Makhachkala – Caspian Sea |
| DK2OM | 3761,5 | vt | vd | 03 | POL | | FSK8 | 125 | 1750 | ALE, "NI9" "PL7" "AB2" – Polish MIL |
| DK2OM | 3765,0 | 1838 | 23 | 03 | RUS | | FMCW | | 30k | OTHR – 43.5 sps – 3765 – 3795 kHz – Makhachkala – Caspian Sea |
| DK2OM | 3767,0 | 1702 | 28 | 03 | RUS | | PSK2A | 120 | 2600 | AT3004D - Kaliningrad |
| DK2OM | 3781,5 | 2115 | 06 | 03 | UKR | | OQPSK | 1280 | 1280 | Kyiv - Ukraine |
| DK2OM | 3782,0 | ady | dly | 03 | POR | CTP | F1B | 75 | 850 | POR Navy headquarter Lisbon – disturbed by Russian OTH radar on 18.08.2013 at 1945 utc |
| DK2OM | 3791,0 | vt | vd | 03 | D | DK0ESD | FSK8 | 125 | 1750 | ALE, "DK0ESD" – just for info! |
| DK2OM | 3796,0 | 2020 | 20 | 03 | UKR | | F1B | 75 | 1000 | West-UKR |
| DK2OM | 3797,0 | 1945 | 23 | 03 | UKR | | F1B | 75 | 225 | very unclean – east of Lvov |
| DK2OM | 7000,0 | 2004 | 02 | 03 | UKR | D | A1A | | | Cluster beacon – Sevastopol RUS Navy – "RCV" - daily |
| DK2OM | 7000,0 | 1640 | 17 | 03 | INS | | LSB USB | | | Indonesian pirates singing, chatting and playing music – audible in Europe every afternoon and evening |
| DK2OM | 7000,0 | vt | vd | 03 | ? | | FSK8 | 125 | 1750 | ALE, "210" "20989" "2205" |
| DK2OM | 7000,0 | 1815 | 25 | 03 | ALG | | USB | | | male persons in Arabic voice, Codan beep |
| DK2OM | 7020,0 | vt | vd | 03 | SRB | | FSK8 | 125 | 1750 | ALE, "CS5004A" "RS0013D" – NC3A network? – area of Kosovo |
| DK2OM | 7025,9 | 1528 | 27 | 03 | UKR | | PSK4A | 1200 | 1200 | East-UKR - Kharkiv |
| DK2OM | 7036,0 | 1811 | 04 | 03 | RUS | | F1B | 50 | 500 | CIS50-500 - |
| DK2OM | 7038,7 | 1833 | 02 | 03 | UKR | D | A1A | | | Cluster beacon – Sevastopol |

| DK2OM | kHz | UTC | DD | MM | ITU | IDENT | MODE | BD | SH/SP | DETAILS |
|-------|---------|------|-----|----|-----------------|--------------------------|-------|------|-------|---|
| | | | | | | | | | | RUS Navy – “RCV” |
| DK2OM | 7038,8 | 1833 | 02 | 03 | RUS | P | A1A | | | Cluster beacon – Kaliningrad RUS Navy – “RMP” |
| DK2OM | 7038,9 | 1941 | 16 | 03 | RUS | S | A1A | | | Cluster beacon – Severomorsk RUS Navy – „RIT“ |
| DK2OM | 7039,0 | 1941 | 16 | 03 | RUS | C | A1A | | | Cluster beacon - Moscow RUS Navy - “RIW” |
| DK2OM | 7039,1 | --- | --- | 03 | KGZ | A | A1A | | | Cluster beacon – Bishkek RUS Navy – “RJH25” |
| DK2OM | 7039,2 | 1941 | 16 | 03 | RUS | F | A1A | | | Cluster beacon - Vladivostok RUS Navy - “RJS” |
| DK2OM | 7039,3 | --- | --- | 03 | RUS | K | A1A | | | Cluster beacon - Petropavlovsk Kamchatskiy - RUS Navy - Pacific fleet - “RCC” |
| DK2OM | 7039,4 | 1944 | 16 | 03 | RUS | M | A1A | | | Cluster beacon – Magadan RUS Navy – „RTS“ |
| DK2OM | 7039,95 | ady | dly | 03 | I | IZ3DVW | A1A | | | IZ3DVW – uncoordinated beacon, daily, all day |
| DK2OM | 7040,0 | vt | dly | 03 | F | F6BAZ | FSK8 | 125 | 1750 | ALE, “F6BAZ” – just for info |
| DK2OM | 7040,5 | vt | dly | 03 | HRV | | FSK8 | 125 | 1750 | ALE, “9A5EX” “9A0ALE” – just for info |
| DK2OM | 7047,0 | 1742 | 04 | 03 | UKR | | PSK2A | 120 | 2600 | AT3004D – traffic - Simferopol |
| DK2OM | 7047,37 | 1600 | 17 | 03 | D | | FSK8 | 125 | 1750 | ALE, “DL0NOT” – just for info! |
| DK2OM | 7049,5 | vt | dly | 03 | HRV G F | 9A0ALE M1DFO F6BAZ | FSK8 | 1250 | 1750 | Amateur ALE, just for info! |
| DK2OM | 7054,0 | --- | --- | 03 | RUS | | F1B | 50 | 200 | CIS50-50 - RUS Navy Moscow – not active |
| DK2OM | 7055,5 | vt | vd | 03 | GEO | | FSK8 | 125 | 1750 | ALE, “111” “132” “133” - Georgia |
| DK2OM | 7057,0 | 2200 | 18 | 03 | MEa | | FSK8 | 125 | 1750 | ALE, “145” “168”– ship, East Black Sea |
| DK2OM | 7060,0 | 1838 | 13 | 03 | FEa | | FMCW | | 32k | CODAR like ocean radar with 2.5 sps – 7060 – 7092 kHz - daily |
| DK2OM | 7070,0 | vt | dly | 03 | GEO | no ITU | FSK8 | 125 | 1750 | ALE, “MV” “244” “686” “334” “204” “571” – daily active |
| DK2OM | 7079,0 | 1825 | 16 | 03 | RUS | | F1B | 75 | 200 | Black Sea |
| DK2OM | 7088,8 | vd | vt | 03 | S | SL0FRO | A1A | | | 7088.830 - cw-trainee, Sweden – kHz – SL0FRO - just for info! |
| DK2OM | 7089,8 | 1644 | 27 | 03 | TUR | | PSK8 | 2400 | 2400 | Link11 - SLEW – aircraft – Turkish SE coast |
| DK2OM | 7099,5 | vt | dly | 03 | HRV | 9A0ZG | FSK8 | 125 | 1750 | ALE, “9A0ZG” “9A5EX” “9A0OS” – daily - just for info! |
| DK2OM | 7102,0 | vt | dly | 03 | HRV SUI D | 9A0ALE | FSK8 | 125 | 1750 | ALE, “9A0ALE” “9A2KS” “HB9MHB” “9A0ZG” “DK0ESD” – just for info! |
| DK2OM | 7105,0 | 2200 | dly | 03 | CHN | | unid | | 7.5k | broadband digital signal – 7105 kHz center – daily at 2200 - 2300 utc – jammer? – West- China |
| DK2OM | 7110,0 | vt | dly | 03 | HRV | 9A0ALE | FSK8 | 125 | 1750 | ALE, “9A0ALE” – just for info |
| DK2OM | 7110,0 | vt | dly | 03 | | | FSK8 | 125 | 1750 | ALE, “1101” “1112” |
| DK2OM | 7120,0 | 1700 | dly | 03 | SOM | | A3E | | 9k | Radio Hargaysa Somalia, daily |
| DK2OM | 7124,0 | 1809 | 21 | 03 | RUS | | PSK2A | 120 | 2600 | AT3004D - Kaliningrad |
| DK2OM | 7128,5 | 1835 | 08 | 03 | UKR | | PSK2A | 120 | 2600 | AT3004D – North-Crimea |
| DK2OM | 7134,5 | 1735 | 05 | 03 | UKR | | PSK2A | 120 | 2600 | AT3004D - Kyiv |
| DK2OM | 7135,5 | 1813 | 04 | 03 | UKR | | PSK2A | 120 | 2600 | AT3004D - Kyiv |
| DK2OM | 7137,0 | vt | dly | 03 | TWN | no ITU | FSK8 | 125 | 1750 | LSB – ALE , “ACCENT” “ABLAZE” “ABOUND” “AGHAST” “ARTIST” “ANYWAY” “ABJECT” “ADROIT” – Taiwanese navy – daily – various times - tnx for info: DL8AAM |

| DK2OM | kHz | UTC | DD | MM | ITU | IDENT | MODE | BD | SH/SP | DETAILS |
|-------|---------------|-------------|------------------|-----------|--------------------|--------|------------|------|------------|---|
| DK2OM | 7138,5 | 1606 | 06 | 03 | UKR | | PSK2A | 120 | 2600 | AT3004D – east of Kyiv |
| DK2OM | 7141,5 | 1620 | 08 | 03 | UKR | | PSK2A | 120 | 2600 | AT3004D – west of Kyiv |
| DK2OM | 7143,5 | 1713 | 03 | 03 | UKR | | PSK2S | 120 | 2600 | AT3004D - Sevastopol |
| DK2OM | 7145,5 | 1740 | 07 | 03 | UKR | | PSK2A | 120 | 2600 | AT3004D - Kyiv |
| DK2OM | 7154,0 | 1529 | 09 | 03 | CHN | | OFDM | 60 | 2400 | LSB - OFDM32 |
| DK2OM | 7157,0 | 1820 | 25 | 03 | RUS | | PSK2A | 120 | 2600 | AT3004D – Far East Russia |
| DK2OM | 7179,0 | 1711 | 03 | 03 | UKR | | PSK2A | 120 | 2600 | AT3004D – Kyiv – also: 17.03.2014 at 1550 utc |
| DK2OM | 7183,0 | 1703 | 02 | 03 | SUI | | FSK8 | 125 | 1750 | ALE, “HB9MHB” – just for info! |
| DK2OM | 7185,5 | 1530 | 25 | 03 | D HRV | | FSK8 | 125 | 1750 | ALE, “9A5EX” “DK0ESD” just for info - daily |
| DK2OM | 7188,5 | 1942 | 12 | 03 | UKR | | PSK2A | 120 | 2600 | AT3004D - Crimea |
| DK2OM | 7190,0 | 1825 | dly | 03 | TUR | | A3E | | 30k | spurious from Voice of Turkey on 7205 kHz +/- 15 kHz – daily from 1825 – 1930 utc – transmission in German |
| DK2OM | 7192,0 | 0720 | 26 | 03 | UKR | | PSK2A | 120 | 2600 | AT3004D - Crimea |
| DK2OM | 7197,0 | 0708 | 18 and dly | 03 | TUR | | FSK8 | 125 | 1750 | ALE, “8241” “206102” “8151” “3021” “3761” “8021” “8141” “3061” “3241” “8411” – Turkish Sivil Avunma = Turkish Civil Defense - source: DL8AAM |
| DK2OM | 7200,0 | 2200 | dly | 03 | CHN TWN | | A3E | | | Sound of Hope TWN and Chinese jammer – 2 carriers 4 Hz difference - daily |
| DK2OM | 10100,8 | ady | dly | 03 | D | | F1B | 50 | 450 | Baudot - German Weatherservice – legal! |
| DK2OM | 10113,0 | vt | dly | 03 | TUN | no ITU | FSK8 | 125 | 1750 | ALE, “TUD” |
| DK2OM | 10114,8 | 0640 | 28 | 03 | RUS | | F1B | 100 | 1000 | CIS14 – Penza - daily |
| DK2OM | 10115,0 | vt | vd | 03 | | | FSK8 | 125 | 1750 | ALE, “2001” “2002” |
| DK2OM | 10123,0 | vt | dly | 03 | ALG | no ITU | FSK8 | 125 | 1750 | ALE, “CM3” “COF” “BSF” |
| DK2OM | 10125,0 | 2049 | 14 | 03 | MRC | | USB | | | Moroccan fishery |
| DK2OM | 10125,0 | 1830 | 25 | 03 | CLN | | USB | | | Sinhala fishery |
| DK2OM | 10125,0 | 1938 | 26 | 03 | F | | USB | | | French fishery |
| DK2OM | 10130,0 | vt | dly | 03 | MRC | | FSK8 | 125 | 1750 | Thales 3000 – West Sahara – daily - vt |
| DK2OM | 10132,0 | 2045 | 10 | 03 | CIS | | LSB | | | men in Russian voice |
| DK2OM | 10133,0 | 2050 | 10 | 03 | MRC | | USB | | | Moroccan fishery |
| DK2OM | 10136,0 | vt | dly | 03 | ALG | | FSK8 | 125 | 1750 | ALE, “CM3” “BLD” “CNC” “TF2” |
| DK2OM | 10136,0 | 1730 | 05 | 03 | RUS | | F1B | 50 | 200 | Chita – Far East Russia - daily |
| DK2OM | 10144,0 | ady | dly | 03 | D | DK0WCY | A1A | | | 10143.986 kHz - DK0WCY – German aurora beacon – just for info! |
| DK2OM | 10145,5 | vt | dly | 03 | HRV S / D F | 9A5EX | FSK8 | 125 | 1750 | ALE, “9A5EX” “SM5VRH” “DK0ESD” “F6BAZ” - just for info - daily |
| DK2OM | 10149,5 | 1655 | 27 | 03 | I | | USB | | | male people in Italian voice |
| DK2OM | 14000,0 | 2120 | 19 | 03 | B | | USB | | | Brazilian pirates – also: 22.03.2014 at 1920 utc |
| DK2OM | 14000,0 | 2215 | 27 | 03 | FEa | | USB | | | Far East pirates |
| DK2OM | 14001,6 | 2243 | 06 | 03 | FEa | | USB | | | Far East pirates |
| DK2OM | 14001,9 | 0827 | 19 | 03 | RUS | | OFDM | 22.3 | 2900 | OFDM112 - Kaluga |
| DK2OM | 14002,5 | 2140 | 11 | 03 | CLN | | LSB | | | Sinhala fishery |
| DK2OM | 14006,0 | 0748 | 22 | 03 | RUS | | PSK2 | 120 | 2600 | AT3004D – modem idle - Kaliningrad |
| DK2OM | 14008,0 | 0745 | 22 | 03 | RUS | | F1B | 50 | 250 | CIS50-250 - Moscow |
| DK2OM | 14016,0 | 0755 | 07 | 03 | RUS | | PSK2A | 120 | 2600 | Moscow |
| DK2OM | 14026,0 | 1450 | 16 | 03 | RUS | | PSK2A | 120 | 2600 | AT3004D - Moscow |
| DK2OM | 14046,2 | 0712 | 11 | 03 | RUS | | PSK2A | 120 | 2600 | AT3004D - Irkutsk |
| DK2OM | 14060,0 | vt | vd | 03 | ISR | | FSK8 | 125 | 1750 | ALE, “AAA” - Israel |
| DK2OM | 14078,4 | 1952 | 29 | 03 | RUS | F | A1A | | | Cluster beacon - Vladivostok RUS Navy - “RJS” – harmonic from 7039.2 |
| DK2OM | 14109,0 | vt | dly | 03 | ISR | 4X1 | FSK8 | 125 | 1750 | ALE, “4X1” “CT2IXQ” – just for info! |

| DK2OM | kHz | UTC | DD | MM | ITU | IDENT | MODE | BD | SH/SP | DETAILS |
|-------|----------------|-------------|------------|-----------|-----------------|--------------|------------|------------|------------|---|
| DK2OM | 14109,0 | vt | dly | 03 | CAN | | FSK8 | 125 | 1750 | ALE, "VE3GDZ" – just for info! |
| DK2OM | 14141,0 | 1132 | 01 | 03 | RUS | | F1B | 75 | 200 | Moscow |
| DK2OM | 14190,0 | 1603 | 06 | 03 | RUS | | FMCW | | 20k | OTH radar with 10 sps – Nizhny Novgorod |
| DK2OM | 14205,0 | vt | dly | 03 | | no ITU | FSK8 | 125 | 1750 | ALE, "505" "822" – 60 deg. from DL - CHN ? |
| DK2OM | 14221,0 | 2236 | 28 | 03 | KGZ | | F1B | 41.8 | 200 | idle - Bishkek |
| DK2OM | 14253,0 | 0750 | 03 | 03 | RUS | | F1B | 75 | 250 | Penza – also: 07.03.2014 at 1420 utc |
| DK2OM | 14253,0 | 1427 | 09 | 03 | RUS | | FMCW | | 10k | OTH radar 50 sps – Nizhny Novgorod – many splatters |
| DK2OM | 14255,0 | 0830 | 26 | 03 | RUS | | PSK2A | 120 | 2600 | AT3004D - Penza |
| DK2OM | 14260,0 | vt | dly | 03 | SRB | | FSK8 | 125 | 1750 | ALE, "YU1BI" – just for info! |
| DK2OM | 14260,8 | 0755 | 19 | 03 | RUS | | J7D | 35.6 | 2780 | CIS60 - Bryansk |
| DK2OM | 14263,0 | 0910 | 15 | 03 | RUS | | F1B | 75 | 250 | Penza |
| DK2OM | 14265,0 | vt | vd | 03 | TUR | | FSK8 | 125 | 1750 | ALE, "526" |
| DK2OM | 14267,0 | 1255 | 31 | 03 | CHN | | PSK4A | 44.44 | 2300 | ARQ-burst - PRC 39 tone - China |
| DK2OM | 14275,0 | 0745 | 20 | 03 | RUS | | FMCW | | 20k | OTH radar with 10 sps – Nizhny Novgorod |
| DK2OM | 14278,5 | 1250 | 31 | 03 | RUS | | F1D | 1200 | 600 | Moscow |
| DK2OM | 14280,0 | 1010 | Wed | 03 | UKR | | A3E | | | female voice with encrypted msgs – figures – "SZRU" = Foreign Intelligence Service of Ukraine at Rivne – every Wednesday |
| DK2OM | 14294,0 | 1015 | 31 | 03 | RUS | | PSK2A | 120 | 2600 | AT3004D - Moscow |
| DK2OM | 14295,0 | vt | dly | 03 | SRB | YU1BI | FSK8 | 125 | 1750 | ALE, "YU1BI" – just for info! |
| DK2OM | 14295,1 | ady | dly | 03 | TJK | | A3E | | | 3 rd from Radio Tajik on 4765 kHz |
| DK2OM | 14306,0 | 0740 | 12 | 03 | RUS | | PSK2A | 120 | 2600 | AT3004D - Penza |
| DK2OM | 14317,0 | vt | vd | 03 | UKR | RCV | A1A | | | RUS naval base Sevastopol - encrypted, cyrillic letters |
| DK2OM | 14322,0 | vt | dly | 03 | CHN | | FSK8 | 125 | 1750 | ALE, "402" |
| DK2OM | 14328,0 | vt | dly | 03 | CHN | | FSK8 | 125 | 1750 | ALE, "139" "534" "772" – West China |
| DK2OM | 14330,0 | vt | dly | 03 | | | FSK8 | 125 | 1750 | ALE, "BV4" |
| DK2OM | 14344,7 | 1436 | 01 | 03 | CHN | | PSK8 | 2400 | 2400 | preamble similar MIL-188-110A - 600 bps short – 14344.650 kHz – daily, all day |
| DK2OM | 14346,0 | vt | dly | 03 | HRV RUS D | | FSK8 | 125 | 1750 | ALE, "9A0ZG" "RX3ARZ" "DK0ESD" – just for info – various times, daily |
| DK2OM | 14346,0 | vt | dly | 03 | THA | HS0ZEA | A1A | | | HS0ZEA beacon – 14345.950 kHz - every 5 minutes – just for info! |
| DK2OM | 18100,0 | vt | dly | 03 | MRC | no ITU | FSK8 | 125 | 1750 | ALE, "C3" "R3" |
| DK2OM | 18107,0 | 1703 | 03 | 03 | RUS | RDL | F1B | 50 | 200 | Moscow – idle and traffic – Russian navy – various days and times – legal operation |
| DK2OM | 18140,0 | vt | dly | 03 | SRB | YU1BI | FSK8 | 125 | 2600 | ALE, "YU1BI" – just for info! |
| DK2OM | 21000,0 | 1800 | 14 | 03 | B | | USB | | | Brazilian pirates – Rio de Janeiro with North Brazil |
| DK2OM | 21000,0 | 1132 | 12 | 03 | SDN | | USB | | | MFA Sudan – Khartoum with emba Yemen – voice traffic |
| DK2OM | 21000,0 | 1446 | 01 | 03 | RUS | | USB | | | vocoder Yakhta - encrypted voice traffic – Nizhny Tagil |
| DK2OM | 21000,0 | 1625 | 15 | 03 | MRC | | USB | | | Moroccan fishery |
| DK2OM | 21001,5 | 1135 | 01 | 03 | RUS | | F1B | 100 | 150 | vocoder Yakhta inband synchro – Nizhny Tagil |
| DK2OM | 21001,9 | 1125 | 12 | 03 | RUS | | OFDM | 22.3 | 2900 | OFDM112 - pilotone: 21003.333 Hz - Orenburg |
| DK2OM | 21002,1 | 2028 | 27 | 03 | SDN | !0000 | F1B | 100 | 170 | 21002.15 kHz - Factor 1 encrypted – MFA Sudan – Khartoum with emba Yemen |
| DK2OM | 21096,0 | vt | dly | 03 | INS | YD00XH | FSK8 | 125 | 1750 | ALE, "YD00XH3" – daily, various times - just for info! |

| DK2OM | kHz | UTC | DD | MM | ITU | IDENT | MODE | BD | SH/SP | DETAILS |
|-------|---------|------|-----|----|-----|--------|------|------|-------|--|
| DK2OM | 21121,7 | 1025 | 13 | 03 | RUS | | F1B | 1200 | 1200 | ARQ - burst system - Orenburg |
| DK2OM | 21141,5 | 1255 | 26 | 03 | MEa | | PSK8 | 2400 | 2400 | MIL-188-141B – App.C – daily, various times |
| DK2OM | 21145,0 | 2010 | 27 | 03 | MRC | | FSK8 | 125 | 1750 | ALE, “B301”, “C3”, “IR4” “T4” “E4” “A2” “CD” “K3” “KB2” “J5” “GS4” – various times, daily |
| DK2OM | 21318,5 | 0955 | 31 | 03 | GNB | | F1D | 600 | 600 | DPRK-FSK 600 – North Korean emba Guinea-Bissau |
| DK2OM | 21323,5 | 0457 | 20 | 03 | IND | | F1D | 600 | 600 | DPRK-FSK 600 – North Korean emba New Delhi |
| DK2OM | 21330,0 | 0807 | 19 | 03 | RUS | | FMCW | | 20k | OTH radar with 10 sps – Nizhny Novgorod |
| DK2OM | 21400,0 | 0915 | 04 | 03 | RUS | | F1B | 50 | 2000 | harmonic from 5350 kHz – area of Moscow - daily |
| DK2OM | 21409,5 | 0645 | 28 | 03 | RUS | | F1B | 100 | 2000 | CIS14 – harmonic from 10704.75 - Jekaterinburg |
| DK2OM | 21425,0 | 1444 | 16 | 03 | RUS | | FMCW | | 20k | OTH radar with 10 sps – Nizhny Novgorod |
| DK2OM | 21438,0 | 1440 | 01 | 03 | UKR | RCV | A1A | | | RIP90 de RCV - RUS Navy Sevastopol - daily |
| DK2OM | 21445,0 | 1118 | 05 | 03 | IRN | IRIB | A3E | | | spurious from 21510 – IRIB Tehran - distorted |
| DK2OM | 21446,0 | ady | dly | 03 | THA | HS0ZEA | A1A | | | HS0ZEA beacon – every 5 minutes - just for info! |
| DK2OM | 24910,0 | 0930 | 09 | 03 | CYP | | FMCW | | 20k | OTH radar Cyprus – 50 sps |
| DK2OM | 24930,0 | 1445 | 20 | 03 | CYP | | FMCW | | 4k | OTH radar Cyprus - 25 sps – long lasting |
| DK2OM | 24990,0 | 0749 | 12 | 03 | CYP | | FMCW | | 20k | OTH radar Cyprus – 50 sps |
| DK2OM | 24990,0 | 1015 | 28 | 03 | RUS | | F3E | | | male persons – North Caucasian region |
| DK2OM | 25000,0 | ady | dly | 03 | FIN | | A3E | | | time signal Helsinki – just for info – carrier on 25000 – dots on 25001 and 24999 – daily, all day |
| DK2OM | 28000,0 | vt | dly | 03 | CIS | | F3E | | | 28000 – 29700 numerous CIS taxi nets – mostly Russia |
| DK2OM | 28000,0 | ady | dly | 03 | B | | A3E | | | Brazilian CBers – 28000 - 28315 |
| DK2OM | 28000,0 | 1303 | 12 | 03 | F | | FMCW | | 20k | OTH radar – 2.5 sps - South France – sounding similar to CODAR |
| DK2OM | 28001,0 | 1746 | 03 | 03 | | | USB | | | Korean fishery, Atlantic |
| DK2OM | 28005,0 | ady | dly | 03 | RUS | | F3E | | | taxi net St. Peterburg, daily, all day |
| DK2OM | 28025,0 | 1833 | 09 | 03 | POR | | F1B | 51 | 320 | F1B bursts - west of Lisbon – daily |
| DK2OM | 28030,0 | vt | dly | 03 | POR | | F1B | 51 | 320 | F1B bursts - west of Lisbon |
| DK2OM | 28035,0 | vt | dly | 03 | RUS | | F3E | | | taxi Moscow - daily |
| DK2OM | 28040,1 | vt | dly | 03 | POR | | F1B | 51 | 320 | F1B bursts - west of Lisbon – Enagal GPS buoys - daily |
| DK2OM | 28045,0 | 1817 | 05 | 03 | B | | A3E | | | Brazilian CBers |
| DK2OM | 28050,0 | 1740 | 23 | 03 | POR | | F1B | 51 | 320 | F1B bursts - 28100.160 kHz - west of Lisbon – Enagal GPS buoys - daily |
| DK2OM | 28055,0 | 1750 | 05 | 03 | RUS | | F3E | | | taxi Moscow - daily |
| DK2OM | 28065,0 | vt | dly | 03 | RUS | | F3E | | | taxi Moscow - daily |
| DK2OM | 28065,0 | 0824 | 09 | 03 | E | | A3E | | | Spanish CBers |
| DK2OM | 28100,2 | 1646 | 17 | 03 | POR | | F1B | 51 | 320 | F1B bursts - 28100.160 kHz - west of Lisbon – Enagal GPS buoys - daily |
| DK2OM | 28105,0 | vt | dly | 03 | RUS | | F3E | | | taxi Moscow |
| DK2OM | 28115,0 | vt | dly | 03 | RUS | | F3E | | | taxi - Moscow – daily – disturbing AFU PSK on 28120 |
| DK2OM | 28125,0 | 1423 | 23 | 03 | POR | | F1B | 51 | 320 | F1B bursts - 28100.160 kHz - west of Lisbon – Enagal GPS buoys - daily |
| DK2OM | 28135,0 | vt | dly | 03 | RUS | | F3E | | | taxi – Barnaul - daily |

| DK2OM | kHz | UTC | DD | MM | ITU | IDENT | MODE | BD | SH/SP | DETAILS |
|-------|---------|------|-----|----|----------|-------|------------|------|-------|--|
| DK2OM | 28145,0 | 1029 | 19 | 03 | E | | A3E | | | Spanish CBers |
| DK2OM | 28146,0 | vt | vd | 03 | ARG B | | FSK8 | 125 | 1750 | ALE, "LU8EX" "PY2TI" "DL1" – just for info! |
| DK2OM | 28200,0 | 0950 | 12 | 03 | POR | | F1B | 51 | 300 | F1B bursts - west of Lisbon – Enagal GPS buoys - daily |
| DK2OM | 28200,0 | 0939 | 19 | 03 | RUS | | USB F1B | | | vocoder Yakhta – F1B and voice traffic – SE of Novosibirsk |
| DK2OM | 28205,0 | vt | dly | 03 | RUS | | F3E | | | taxi Moscow |
| DK2OM | 28215,0 | vt | dly | 03 | RUS | | F3E | | | taxi Moscow |
| DK2OM | 28255,0 | vt | dly | 03 | RUS | | F3E | | | taxi Moscow |
| DK2OM | 28265,0 | vt | dly | 03 | RUS | | F3E | | | taxi Moscow |
| DK2OM | 28305,0 | vt | dly | 03 | RUS | | F3E | | | taxi - Arkhangelsk |
| DK2OM | 28670,0 | 1109 | 07 | 03 | IRN | | FMCW | | 50k | OTH radar Iran – 307 and 870 sps |
| DK2OM | 29250,0 | --- | -- | 03 | E | | F1B | 81.9 | 140 | Datawell-buoy "Waverider" – 29249.905 kHz – Fuerteventura - daily, all day |
| DK2OM | 29375,0 | --- | -- | 03 | I | | F1B | 81.9 | 140 | Datawell-buoy "Waverider" – 29374.898 kHz – Galatone, South Italy - daily, all day |
| DK2OM | 29387,5 | --- | -- | 03 | IND | | F1B | 81.9 | 140 | Datawell-buoy "Waverider" – 29387,460 kHz – Indian NW coast, close to Pakistan - daily, all day |
| DK2OM | 29450,0 | 0954 | 12 | 03 | MRC | | F1B | 81.9 | 140 | Datawell-buoy "Waverider" – 29449.870 kHz - area of El Aaiun – Morocco - daily, all day |
| DK2OM | 29500,0 | 1440 | 14 | 03 | IRN | | FMCW | | 50k | OTH radar Iran – 307 and 870 sps - jumping |
| DK2OM | 29500,0 | --- | -- | 03 | G | | F1B | 81.9 | 140 | Datawell-buoy "Waverider" – area of Gibraltar – daily, all day |
| DK2OM | 29525,0 | --- | --- | 03 | MRC | | F1B | 81.9 | 140 | Datawell-buoy "Waverider" – 29524.990 kHz - Agadir - Morocco – daily, all day |
| DK2OM | 29660,0 | 1017 | 03 | 03 | RUS | | F1B | 44.6 | 1000 | harmonic from 14830 kHz – Krasnoyarsk – daily, all day |
| DK2OM | 29688,0 | 1016 | 05 | 03 | RUS | | F1B | 50 | 500 | harmonic from 14844.0 - Moscow |

REF – France – F5MIU (Francis)

| SOC | kHz | UTC | DD | MM | ITU | IDENT | MODE | BD | SH | DETAILS |
|-------|-------|-------|----|----|-----|-------|--------|-------|------------|---|
| F5MIU | 3532 | 9h04 | 26 | 3 | | | DSB | 6 | 2x 2400 | S7 2x RTTY signal sym. French Navy Brest |
| F5MIU | 3712 | 9h04 | 26 | 3 | | | DSB | 6 | | S8 synchron to 3532kHz sign |
| F5JBR | 7196 | 6h10 | 30 | 3 | | PEYZ | A1A | | | Military Russian ? end 6h13 |
| F5JBR | 7196 | 6h32 | 31 | 3 | | PEYZ | A1A | | | Military Russian ? traffic |
| F5MIU | 24930 | 16h27 | 18 | 3 | | | fmcw | 20 | | S6 end 16h52 Mil OTH |
| F5MIU | 24980 | 8h40 | 20 | 3 | | | fmcw | 20 | | S8 Be :Est Mil OTHR |
| F5MIU | 24990 | 8h57 | 15 | 3 | | | fmcw | 20 | | S5 end 9h00 Mil OTHR |
| F5MIU | 28200 | 16h38 | 26 | 3 | | | A3J+ | 3 | | S7 Portuguese fisherman? |
| F5MIU | 28600 | 9h00 | 11 | 3 | | | fmcw | 20 | | S8 Mil OTHR |
| F5MIU | 29090 | 8h48 | 14 | 3 | | | fmcw | 40 | | S9+20 Mil OTHR |
| F5MIU | 29300 | 8h52 | 14 | 3 | | | pulse | 40 | | S9+40 Mil OTHR |
| F5MIU | 29450 | 17h17 | 12 | 3 | | | fsk | 0.150 | 140 | S4 Be210° Swell bouy ,ady |
| F5MIU | 29500 | 9h27 | 25 | 3 | | | Pulses | 50 | | S9 pulsed 2 rates, duration 7sec |
| F5MIU | 29540 | 15h53 | 11 | 3 | | | fsk | 0.150 | 140 | S4 Be:210° Swell buoy |
| F5MIU | 29560 | 15h45 | 12 | 3 | | | Fmcw | 20 | | S9 Mil OTHR |
| F5MIU | 29600 | 8h41 | 22 | 3 | | | fmcw | 20 | | S8 Be :Est end 8h48 Mil OTHR |

IRTS – Ireland – EI5DD (Steve)

KARS – Kuwait – 9K2RR (Faisal)

MRASZ 1 – Hungary - HA7PL (Laci)

| SOC | kHz | UTC | DD | MM | ITU | IDENT | MODE | BD | SH | DETAILS |
|-------|---------|------|-----|----|-----|-------|------|-----|-----|---|
| MRASZ | 3520,0 | 1900 | 11 | 3 | | | USB | | | unidentified |
| MRASZ | 3523,0 | 1835 | 11 | 3 | | | A1A | | | long „VVV” strings |
| MRASZ | 3537,0 | 1904 | 11 | 3 | | | A3E | | | unidentified |
| MRASZ | 3582,0 | 2022 | 21 | 3 | RUS | | PSK2 | | | AT3004D |
| MRASZ | 3595,0 | 2043 | 10 | 3 | | | USB | | | numbers, russian female |
| MRASZ | 3595,0 | 1952 | 21 | 3 | | | USB | | | numbers, russian female |
| MRASZ | 3595,0 | 2020 | 25 | 3 | | | USB | | | numbers, russian female |
| MRASZ | 3608,0 | 2038 | 12 | 3 | | | A1A | | | dashes |
| MRASZ | 3710,0 | 2048 | 10 | 3 | | | OTHR | | | 3710-3750 kHz |
| MRASZ | 3710,0 | 1811 | 11 | 3 | | | OTHR | | | 3710-3750 kHz |
| MRASZ | 3790,0 | 2102 | 10 | 3 | | | USB | | | unidentified, female |
| MRASZ | 7000,0 | 1739 | 11 | 3 | | | A1A | | | klick from 6999,5 kHz |
| MRASZ | 7000,0 | 1815 | 22 | 3 | | | USB | | | unidentified male |
| MRASZ | 7000,1 | 1734 | 24 | 3 | | | LSB | | | italian male's |
| MRASZ | 7016,0 | 0848 | 7 | 3 | | | F1B | | 250 | |
| MRASZ | 7033,0 | 0846 | 7 | 3 | RUS | | PSK2 | | | AT3004D |
| MRASZ | 7038,7 | vt | dly | 3 | UKR | D | A1A | | | "D" beacon |
| MRASZ | 7038,8 | 1946 | 10 | 3 | RUS | P | A1A | | | „P” beacon, hrd on 11,12,25 |
| MRASZ | 7038,9 | vt | dly | 3 | RUS | S | A1A | | | "S" beacon |
| MRASZ | 7039,0 | 1946 | 10 | 3 | RUS | C | A1A | | | "C" beacon, hrd on 11,14,15,31 |
| MRASZ | 7039,2 | vt | dly | 3 | RUS | F | A1A | | | "F" beacon |
| MRASZ | 7039,4 | 2045 | 12 | 3 | RUS | M | A1A | | | "M" beacon |
| MRASZ | 7052,0 | 2003 | 19 | 3 | | | FSK8 | | | ALE |
| MRASZ | 7062,0 | 0930 | 29 | 3 | | | OTHR | | | |
| MRASZ | 7105,0 | 0659 | 30 | 3 | | | FSK8 | | | ALE |
| MRASZ | 7120,0 | 1737 | 7 | 3 | SOM | | A3E | | | Radio Hargeysa hrd on 11,20,24 |
| MRASZ | 7124,0 | 2010 | 21 | 3 | RUS | | PSK2 | | | AT3004D |
| MRASZ | 7139,0 | 0845 | 7 | 3 | RUS | | PSK2 | | | AT3004D |
| MRASZ | 7144,0 | 1741 | 7 | 3 | RUS | | PSK2 | | | AT3004D |
| MRASZ | 7156,0 | 1738 | 24 | 3 | RUS | | PSK2 | | | AT3004D |
| MRASZ | 10125,0 | 1950 | 14 | 3 | | | OTHR | | | 10105-10130 kHz |
| MRASZ | 14026,0 | 1901 | 24 | 3 | | | USB | | | unidentified male |
| MRASZ | 14192,0 | 0845 | 16 | 3 | | | F1B | | 400 | |
| MRASZ | 14221,0 | 2013 | 21 | 3 | | | F1B | | 200 | |
| MRASZ | 14222,0 | 0952 | 16 | 3 | | | OTHR | | | |
| MRASZ | 14288,0 | 0840 | 16 | 3 | | | USB | | | flute? |
| MRASZ | 14294,0 | 1853 | 31 | 3 | | | F1B | | | iddle |
| MRASZ | 14350,0 | 1742 | 24 | 3 | | | USB | | | greek male |
| MRASZ | 18107,0 | 1732 | 20 | 3 | | | F1B | | 200 | |
| MRASZ | 18120,0 | 1811 | 19 | 3 | | | OTHR | | | 18015-18135 kHz |
| MRASZ | 21000,0 | 1830 | 26 | 3 | RUS | | F1B | | | voice with vocoder |
| MRASZ | 21001,5 | 0859 | 7 | 3 | RUS | | F1B | 100 | 150 | vokoder Yakhta, hrd on 11,16,19,20,24,26,31 |
| MRASZ | 28050,0 | 1156 | 15 | 3 | | | F3E | | | russian taxi centrum |
| MRASZ | 28055,0 | 1206 | 15 | 3 | | | F3E | | | russian taxi centrum |
| MRASZ | 28065,0 | 1155 | 15 | 3 | | | F3E | | | russian taxi centrum |
| MRASZ | 28355,0 | 1737 | 26 | 3 | | | A1A | | | „MO” fishery buoy |
| MRASZ | 28375,0 | 1615 | 27 | 3 | | | OTHR | | | |
| MRASZ | 28555,0 | 1133 | 16 | 3 | | | F3E | | | russian taxi centrum |

OEVSV – Austria – OE3GSA (Gerd)

| SOC | kHz | UTC | DD | MM | ITU | IDENT | MODE | BD | SH | DETAILS |
|-------|---------|------|----|----|------|-------|------|----|----|------------------|
| oevsv | 10101.1 | 2023 | 01 | 03 | unid | unid | J3Eu | | | males in spanish |
| oevsv | 10101.0 | 0645 | 09 | 03 | unid | unid | J3Eu | | | males in spanish |
| oevsv | 18079.9 | 0604 | 01 | 04 | unid | unid | A3A | | | chinese BC |

PZK – Poland – SP9BRP (Jan)

| SOC | kHz | UTC | DD | MM | ITU | IDENT | MODE | BD | SH | DETAILS |
|-----|-------|-------|----|----|-----|-------|------|------|----|-------------------------|
| PZK | 14026 | 14:30 | 16 | 03 | | | BPSK | 2400 | | Mil ? |
| PZK | 24930 | 13:10 | 20 | 03 | | | CW | | | Mil? |
| PZK | 21312 | 09:30 | 26 | 03 | | | FMCW | | | OTHR south east - RADAR |

REP – Portugal – CT4AN (Jose Francisco)

| SOC | kHz | UTC | DD | MM | ITU | IDENT | MODE | BD | SH | DETAILS |
|-----|--------|-------|----|----|---------|-------|---------------|----|-----|--|
| REP | 28xxx | | | 03 | B | | A3E | | | Brazilian ops, mostly afternoons, everyday |
| REP | 28xxx | | | 03 | RUS | | F3E | | | Russian taxi dispatcher, mornings, everyday |
| REP | 3500,0 | 16.28 | 02 | 03 | | | A1 | | | Carrier |
| REP | 3500,0 | 08.13 | 10 | 03 | E | | J3E U | | | Spanish fishery from Galicia |
| REP | 3515,0 | 20.13 | 14 | 03 | E | | J3E-U | | | Spanish fishermen |
| REP | 3525,0 | 22.20 | 07 | 03 | MRC | | J3E-U | | | Fishermen |
| REP | 3530,0 | 20.03 | 29 | 03 | | | J3E-U | | | Unid lang talks |
| REP | 3535,0 | 23.12 | 10 | 03 | | | J3E-L | | | Unid intruders |
| REP | 3540,0 | 19.02 | 09 | 03 | | | J3E-U | | | Unid ops |
| REP | 3550,0 | 07.22 | 13 | 03 | F | | A3E | | | INFRINGE IARU R1 BANDPLAN French amateurs in AM (DLY) |
| REP | 3593,9 | 22.53 | 14 | 03 | RUS | S | A1A | | | ARKHANGELSK |
| REP | 3625,0 | 07.33 | 11 | 03 | F | | J3E-U | | | French fishermen |
| REP | 3633,0 | 20.10 | 14 | 03 | RUS | CEJX | A1A | | | Russian mil ? |
| REP | 3690,0 | 20.03 | 05 | 03 | RUS | RCH | J3E-U | | | WxFax - Tashkent Meteo ? |
| REP | 3705,0 | 07.02 | 11 | 03 | RUS | | J3E-U | | | Russian Navy |
| REP | 3736,0 | 11.10 | 01 | 03 | E | | J3E-U | | | Spanish fishery |
| REP | 3743,0 | 21.55 | 18 | 03 | P | | A1A | | | CW code training lessons for new ham operators - 15wpm / 5 letter groups |
| REP | 3757,0 | 23.03 | 02 | 03 | RUS | | A1A | | | Rostov-Volgograd mil Station “”dlia 854 032 471 331 ...”” |
| REP | 7000,0 | 17.55 | 19 | 03 | E | | J3E-U | | | Spanish non ham pirates |
| REP | 7001,0 | 21.00 | 23 | 03 | | | F1B | 75 | 240 | Unid FSK |
| REP | 7001,5 | 10.41 | 23 | 03 | F | | A1A | | | French Station CW code practice lessons |
| REP | 7004,0 | 11.25 | 17 | 03 | | | FMCW | | | OTH radar |
| REP | 7005,5 | 16.03 | 06 | 03 | I | | J3E-L | | | Italian outbanders |
| REP | 7015,0 | 07.21 | 05 | 03 | | | J3E-L | | | Unid intruders |
| REP | 7020,0 | 08.50 | 01 | 03 | E | | J3E-U | | | Spanish fishermen |
| REP | 7020,5 | 21.27 | 14 | 03 | | | FMCW | | | OTH radar |
| REP | 7030,0 | 07.44 | 01 | 03 | MRC | | J3E-U | | | Fishermen |
| REP | 7035,0 | 23.12 | 02 | 03 | E | | J3E-U | | | Fishermen |
| REP | 7038,6 | 22.10 | 13 | 03 | RUS | S | A1A | | | KALININGRAD, ADY, DLY |
| REP | 7038,8 | 21.27 | 12 | 03 | RUS | P | A1A | | | MURMANSK, ADY, DLY |
| REP | 7039,0 | 23.30 | 08 | 03 | RUS | C | A1A | | | MOSCOW, ADY, DLY |
| REP | 7039,2 | 23.35 | 08 | 03 | RUS | F | A1A | | | VLADIVOSTOK, ADY, DLY |
| REP | 7039,3 | 23.00 | 08 | 03 | RUS | K | A1A | | | VOLGOGRAD, ADY, DLY |
| REP | 7039,5 | 22.01 | 13 | 03 | RUS | M | A1A | | | MAGADAN, ADY, DLY |
| REP | 7054,1 | 23.54 | 12 | 03 | RUS | | F1B | 50 | 240 | Encrypted mil FSK |
| REP | 7070,0 | 16.25 | 21 | 03 | I | | J3E-L | | | Jamming, italian music |
| REP | 7070,0 | 17.20 | 05 | 03 | I | | J3E-L | | | German music oldies, jamming QSO's |
| REP | 7110,0 | 21,35 | 12 | 03 | BR M | | 8k00 A3EGN | | | BC station with fade (Radio Myanmar ?) |
| REP | 7120,0 | 18.41 | 14 | 03 | SOM | | 8k00 | | | BC station Radio Hargaysa (DLY) |

| SOC | kHz | UTC | DD | MM | ITU | IDENT | MODE | BD | SH | DETAILS |
|-----|--------|-------|----|----|-----|-------|---------------|-----|-----|--|
| | | | | | | | A3EGN | | | |
| REP | 7200,0 | 22.15 | 11 | 03 | CHN | | 8k00 A3EGN | | | Strong splatter from Chinese station down to 40m Ham Band, BW=+/- 9.5kHz (DLY) |
| REP | 10125 | 11.09 | 12 | 03 | | | J3E-U | | | Data bursts |
| REP | 10130 | 09.19 | 04 | 03 | E | | J3E-U | | | Spanish fishery |
| REP | 10135 | 18.33 | 12 | 03 | | | FMCW | | | OTH radar |
| REP | 10140 | 18.44 | 13 | 03 | | | FMCW | | | OTH radar |
| REP | 10148 | 18.29 | 30 | 03 | MRC | | J3E-U | | | Intruders |
| REP | 14000 | 18.09 | 17 | 03 | | | A1 | | | Carrier and dots |
| REP | 14005 | 09.30 | 12 | 03 | | | F1B | 300 | 425 | RY RY RY 1 2 3 RY RY RY |
| REP | 14050 | 08.17 | 10 | 03 | | | FMCW | | | OTH radar |
| REP | 14145 | 18.34 | 20 | 03 | RUS | | FMCW | | | Russian OTH radar 10kHz, 10cps |
| REP | 14192 | 18.14 | 03 | 03 | RUS | | F1B | 75 | 400 | Navy in Kaliningrad DLY |
| REP | 21001 | 13.02 | 19 | 03 | RUS | | F1B | 100 | 150 | Yakhata inband synchro |
| REP | 21125 | 15.33 | 14 | 03 | E | | J3E-U | | | Fishermen |
| REP | 21400 | 07.19 | 12 | 03 | | | FMCW | | | OTH radar 20kHz |
| REP | 24930 | 13.20 | 20 | 03 | | | FMCW | | | OTH radar 10kHz 20cps |
| REP | 24980 | 12.55 | 18 | 03 | | | FMCW | | | OTH radar 20kHz/48cps |
| REP | 28125 | 17.39 | 25 | 03 | B | | A3E | | | Brazilian ops disturbing WSPR |
| REP | 28275 | 11.00 | 24 | 03 | RUS | | F3E | | | YL taxi dispatcher DLY |
| REP | 28370 | 16.04 | 22 | 03 | RUS | | F3E | | | Russian intruders |
| REP | 28385 | 12.08 | 12 | 03 | RUS | | F3E | | | YL taxi dispatcher DLY |
| REP | 28406 | 11.14 | 08 | 03 | | | F3E | 100 | 135 | Unid F1B system |
| REP | 28490 | 13.00 | 09 | 03 | CYP | | FMCW | | | Cyprus OTH radar 50cps |
| REP | 28691 | 13.14 | 21 | 03 | | | A1A | | | Long tones – dashes, letter 8 ? |
| REP | 29015 | 10.26 | 08 | 03 | RUS | | F3E | | | Russian taxi dispatcher |
| REP | 29025 | 16.55 | 20 | 03 | RUS | | F3E | | | Russian taxis |
| REP | 29045 | 17.00 | 20 | 03 | RUS | | F3E | | | Russian taxis |
| REP | 29115 | 10.27 | 08 | 03 | RUS | | F3E | | | Russian taxi dispatcher |
| REP | 29625 | 12.53 | 17 | 03 | | | F1B | | | Datawell buoy, weak |

RSGB - Great Britain – G4BOH (Chris)

| Society | kHz | UTC | DD | MM | ITU | IDENT | MODE | BAUD | SHIFT | REMARKS |
|---------|---------|------|----|----|------|-------|----------------|------|-------|--|
| RSGB | 7102 | 1100 | 05 | 03 | NATO | | STANAG 4285 | 2400 | 2400 | Phoned Baldock with info. QRT shortly after. |
| RSGB | 21001.5 | 1200 | 12 | 03 | RUS | | F1B | 100 | 130 | Baldock DF fix to Sverdlosk area. |

SRAL – Finland – OH2BLU (Pekka)

| Society | kHz | UTC | DD | MM | ITU | IDENT | MODE | BD | SH | REMARKS |
|---------|--------|------------|-----|----|-----|--------|-------|-----|---------|--------------------------|
| SRAL | 7000,0 | 0535 | 6. | 3 | | UiVox | J3E-u | | | russian |
| SRAL | 7007,0 | 0625 | 27. | 3 | | UiPTR | F1B | | | |
| SRAL | 7009,0 | 0625-0700 | 27. | 3 | | UiMUX | PSK2 | 120 | 2600 | |
| SRAL | 7012,0 | 0515-0650 | * | 3 | | UiMUX | PSK2 | 120 | 2600 | Days: 3. 13. 20. 27. 28. |
| SRAL | 7016,0 | 1100-1200 | * | 3 | | UiPTR | F1B | | 200/250 | Days: 1. 5. 10. 20. |
| SRAL | 7018,7 | 1400-1827/ | 6. | 3 | | UiCarr | N0N | | | |
| SRAL | 7020,0 | 0645 | 25. | 3 | | UiPTR | F1B | | 250 | |
| SRAL | 7021,0 | 0930 | 17. | 3 | | UiMUX | PSK2 | 120 | 2600 | |
| SRAL | 7024,0 | 1400-1630 | 19. | 3 | | UiPTR | F1B | | 250 | |
| SRAL | 7030,0 | 0530-0930 | * | 3 | | UiPTR | F1B | | 250 | Days: 10. 13. 26. |
| SRAL | 7033,0 | 1200 | 14. | 3 | | UiPTR | F1B | | | |

| Society | kHz | UTC | DD | MM | ITU | IDENT | MODE | BD | SH | REMARKS |
|---------|---------|------------|-----------|----|-----|----------------|------|-----|------|---------------------------------------|
| SRAL | 7034,0 | 1125-1300 | 13. | 3 | | UiMUX | PSK2 | 120 | 2600 | |
| SRAL | 7036,0 | 0835 | 11. | 3 | | UiPTR | F1B | | 500 | |
| SRAL | 7038,25 | 0450-2020 | 8. – 10. | 3 | | UiCarr | N0N | | | +/- 3 Hz |
| SRAL | 7038,7 | h24 | dly | 3 | UKR | D | A1A | | | Sevastopol |
| SRAL | 7038,8 | 0420-2030 | dly | 3 | RUS | P | A1A | | | Kaliningrad, days: 1. – 14. 25. – 28. |
| SRAL | 7038,9 | h24 | dly | 3 | RUS | S | A1A | | | Severomorsk |
| SRAL | 7039,0 | 0415-2030 | dly | 3 | RUS | C | A1A | | | Moscow |
| SRAL | 7042,0 | 0850 | 10. | 3 | | UiMUX | PSK2 | 120 | 2600 | |
| SRAL | 7044,0 | 0415-2030 | 2. 3. | 3 | | UiPTR | F1B | | 500 | |
| SRAL | 7047,0 | 1300-1730 | 4. 31. | 3 | | UiMUX | PSK2 | 120 | 2600 | |
| SRAL | 7048,0 | 0530 | 18. | 3 | | UiCW | A1A | | | MR 5L |
| SRAL | 7057,5 | 0620-0815 | 7. 13. | 3 | | UiCW | A1A | | | MR 5F, 5BL |
| SRAL | 7066,0 | 1235 | 21. | 3 | | UiPTR | F1B | | 200 | |
| SRAL | 7076,0 | 0540-1330/ | * | 3 | | UiPTR | F1B | | 250 | Days: 5. 17. 22. 29. |
| SRAL | 7079,0 | 0530-2020 | * | 3 | | UiPTR | F1B | | 200 | Days: 13. 16. 19. Black Sea |
| SRAL | 7084,0 | 1030-1045/ | 5. 12. | 3 | | 106 | A1A | | | |
| SRAL | 7099,9 | 0530-1412/ | 6. 7. | 3 | | UiCarr | N0N | | | |
| SRAL | 7120,0 | 0345-0500 | dly | 3 | SOM | R. Hargeisa | A3E | | | |
| SRAL | 7120,0 | 1500-1900 | dly | 3 | SOM | R. Hargeisa | A3E | | | |
| SRAL | 7124,0 | 1150-1950 | 21. 25. | 3 | RUS | UiMUX | PSK2 | 120 | 2600 | |
| SRAL | 7127,0 | 0505 | 17. | 3 | | UiPTR | F1B | | | |
| SRAL | 7134,5 | 1500-2030 | 5. 6. | 3 | UKR | UiMUX | PSK2 | 120 | 2600 | |
| SRAL | 7135,5 | 0615-2100 | * | 3 | UKR | UiMUX | PSK2 | 120 | 2600 | Days: 4. 5. 6. 17. 19. |
| SRAL | 7138,5 | 0500-1730 | 6. | 3 | UKR | UiMUX | PSK2 | 120 | 2600 | |
| SRAL | 7139,5 | 0500-1730 | * | 3 | UKR | UiMUX | PSK2 | 120 | 2600 | Days: 7. 13. 14. |
| SRAL | 7141,5 | 0315-2015 | 8. – 20. | 3 | UKR | UiMUX | PSK2 | 120 | 2600 | |
| SRAL | 7143,5 | 0745-1400 | 3. 4. 5. | 3 | UKR | UiMUX | PSK2 | 120 | 2600 | |
| SRAL | 7145,5 | 1400-1430 | 15. | 3 | UKR | UiMUX | PSK2 | 120 | 2600 | |
| SRAL | 7160,0 | 0625-0830 | 18. 19. | 3 | | UiCW | A1A | | | MR 5BL |
| SRAL | 7162,0 | 0530-1300 | * | 3 | | UiPTR | F1B | | 250 | Days: 4. 6. 10. 11. 13. |
| SRAL | 7163,7 | 0620-1800 | 14. | 3 | | UiCarr | N0N | | | unstable |
| SRAL | 7166,0 | 1330-1400 | 30. | 3 | | UiMUX | PSK2 | 120 | 2600 | |
| SRAL | 7176,0 | 1220-1508/ | 5. 7. 24. | 3 | | UiPTR | F1B | | 250 | |
| SRAL | 7179,0 | 0535-2015 | * | 3 | UKR | UiMUX | PSK2 | 120 | 2600 | Days: 6. 17. 18. |
| SRAL | 7181,7 | 1230-2030 | 7. | 3 | | UiCarr | N0N | | | |
| SRAL | 7184,5 | 1755-1945/ | 12. | 3 | | UiMUX | PSK2 | 120 | 2600 | |
| SRAL | 7188,5 | 1630-1700 | 12. | 3 | | UiMUX | PSK2 | 120 | 2600 | |
| SRAL | 7190,5 | 0630- | 4. | 3 | | UiPTR | F1B | | 250 | |

| Society | kHz | UTC | DD | MM | ITU | IDENT | MODE | BD | SH | REMARKS |
|---------|---------|------------|--------|----|-----------|-----------------|------|-----|---------|---|
| | | 0700 | | | | | | | | |
| SRAL | 7190,5 | 1500-1930 | 12.30. | 3 | | UiMUX | PSK2 | 120 | 2600 | |
| SRAL | 7195,88 | 0645-1041/ | 2. | 3 | | UiCarr | N0N | | | |
| SRAL | 7196,0 | 0500-1415 | * | 3 | | PJEI | A1A | | | Days: 17. 18. 19. procedures |
| SRAL | 7198,0 | 2010 | 1. | 3 | | UiMUX | PSK2 | 120 | 2600 | |
| SRAL | 14000,0 | 0825 | 12. | 3 | | UiPTR | F1A | | | MR 4BL |
| SRAL | 14008,0 | 0730-1051/ | * | 3 | | UiPTR | F1B | | 250 | Days: 1. 13. 17. 19. 30. |
| SRAL | 14015,0 | 0655 | 7. | 3 | | UiMUX | PSK2 | 120 | 2600 | |
| SRAL | 14019,0 | 0625 | 27. | 3 | | UiPTR | F1B | | | |
| SRAL | 14052,0 | 0705 | 5. | 3 | | UiMUX | PSK2 | 120 | 2600 | |
| SRAL | 14135,0 | 1035-1150/ | 12. | 3 | | UiPTR | F1B | | | |
| SRAL | 14141,0 | 0950-1300 | * | 3 | RUS | UiPTR | F1B | | 200/500 | Days: 1. 5. 7. 10. 17. 19. |
| SRAL | 14171,0 | 0620 | 25. | 3 | | UiMUX | PSK2 | 120 | 2600 | |
| SRAL | 14192,0 | 0800-1500 | dly | 3 | RUS | UiPTR | F1B | | 200 | |
| SRAL | 14220,0 | 0615-0700 | 7. | 3 | | UiPTR | F1B | | 250 | |
| SRAL | 14253,0 | 0455-1515 | * | 3 | | UiPTR | F1B | | 250 | Days: 3. 7. 10. 14. 17. 21. 24. 28. 31. |
| SRAL | 14255,0 | 0820-0900/ | 6. 26. | 3 | | UiMUX | PSK2 | 120 | 2600 | |
| SRAL | 14262,0 | 0745 | 19. | 3 | | UiMUX | PSK2 | 120 | 2600 | |
| SRAL | 14265,0 | 1040-1049/ | 29. | 3 | | UiMUX | PSK2 | 120 | 2600 | |
| SRAL | 14294,0 | 1230-1845 | 31. | 3 | RUS | UiMUX | PSK2 | 120 | 2600 | |
| SRAL | 14295,2 | 0030-2000 | dly | 3 | TJK | R Tojikiston | A3E | | | 3f 4765,07 kHz, Yangiyul TX |
| SRAL | 14304,0 | 0905-1000 | 4. | 3 | | UiPTR | F1B | | 250 | |
| SRAL | 14306,0 | 1015-1125 | 11. | 3 | | UiMUX | PSK2 | 120 | 2600 | |
| SRAL | 14 MHz | 0515-1645 | * | 3 | RUS | 29B6 | FMCW | | | 50Hz / 10 kHz, days: 12. 13. 16. 17. 20. 23. 24. 30. 31. |
| SRAL | 18 MHz | 0515-2030 | * | 3 | CYP / TUR | UiOTHR | FMCW | | | 50Hz / 20 kHz, days: 2. 19. 20. 21. 22. 24. (maybe RUS too) |
| SRAL | 18107,0 | 0730-1235 | dly | 3 | RUS | UiPTR | F1B | | 200 | |
| SRAL | 21 MHz | 0930-1700 | * | 3 | CYP / TUR | UiOTHR | FMCW | | | 50Hz / 20 kHz, 21. 25. 28. |
| SRAL | 21001,5 | 0415-1700 | dly | 3 | RUS | UiVocod | F1B | | 140 | Subcarr. |
| SRAL | 21438,0 | 0700-1645 | dly | 3 | RUS | RCV | A1A | | | procedures |
| SRAL | 24 MHz | 0530-1600 | * | 3 | CYP / TUR | UiOTHR | FMCW | | | 25 & 50Hz / 20 kHz, days: 9. 10. 12. 20. 21. 22. 24. |
| SRAL | 24930,0 | 1140-1758/ | 20. | 3 | | UiOTHR | FMCW | | | 25 Hz / 4 kHz |
| SRAL | 28 MHz | 0515-1700 | dly | 3 | IRN | UiOTHR | FMCW | | | 307 & 870 Hz / 60 kHz |
| SRAL | 28 MHz | 0530-1300 | * | 3 | CYP / TUR | UiOTHR | FMCW | | | 25 & 50Hz / 20 kHz, days: 6. 7. 9. 10. 11. 13. 19. 20. 29. |
| SRAL | 28 MHz | 0530-1645 | * | 3 | RUS | Taxi disp. | F3E | | | Days: 1. - 25. 30. 31. 185 reports |
| SRAL | 28100,0 | 0745-0935/ | 14. | 3 | | UiOTHR | FMCW | | | 12.5 Hz / 40 kHz |

USKA – Switzerland – HB9CET (Peter)

| SOC | kHz | UTC | DD | MM | ITU | IDENT | MODE | BD | SH (BW) | DETAILS |
|------|----------|------|----|----|-----|-------|-------|--------|---------|--|
| USKA | 3552.0 | 2249 | 06 | 03 | | | F1B | 50 | 200 | with harmonic at 7104 |
| USKA | 7000.0 | 2313 | 01 | 03 | | D | A1A | | | Beacon D spurious of 7038.7 often |
| USKA | 7000.0 | 1709 | 02 | 03 | | | J3E-U | | | unid language |
| USKA | 7019.0 | 0819 | 13 | 03 | | | A1A | | | Letters in groups of 5; msg headers with #/date/time |
| USKA | 7025.88 | 1443 | 27 | 03 | | | PSK-4 | 1200 | 1k2 | |
| USKA | 7038.7 | 2312 | 01 | 03 | UKR | D | A1A | | | Beacon D Sevastopol daily |
| USKA | 7038.8 | 2243 | 06 | 03 | RUS | P | A1A | | | Beacon P Kaliningrad daily |
| USKA | 7038.9 | 2244 | 06 | 03 | RUS | S | A1A | | | Beacon S Murmansk daily |
| USKA | 7039.2 | 2214 | 13 | 03 | RUS | F | A1A | | | Beacon F Vladivostok |
| USKA | 7039.4 | 2328 | 01 | 03 | RUS | M | A1A | | | Beacon M Magadan daily |
| USKA | 7044.0 | 1633 | 02 | 03 | | | F1B | 40.5 | 500 | |
| USKA | 7077.4 | 2316 | 01 | 03 | | D | A1A | | | Beacon D spurious of 7038.7 often |
| USKA | 7079.0 | 1836 | 16 | 03 | | | F1B | 75 | 200 | |
| USKA | 7089.8 | 2324 | 26 | 03 | | | G1D | 2400 | 2k4 | PSK-8: Link 11- SLEW often |
| USKA | 7096.0 | 2318 | 01 | 03 | | | B7D | 75 | 5k83 | LINK 11 CLEW 75Bd DQPSK DSB mode; DNCS IWM and IM |
| USKA | 7096.0 | 2323 | 04 | 03 | | | B7D | 75 | 5k83 | LINK 11 CLEW 75Bd DQPSK DSB mode; DNCS IM |
| USKA | 7101.8 | 0927 | 05 | 03 | | | PSK-8 | 2400 | 2k4 | Stanag 4285 ~320° Frame format 600bps long |
| USKA | 7104.0 | 2249 | 06 | 03 | | | F1B | 50 | 400 | harmonic of 3552 kHz |
| USKA | 7105.0 | 2202 | 13 | 03 | | | ? | | ~7k | unidnet signal, jammer? daily |
| USKA | 7117.0 | 2148 | 13 | 03 | | | FMCW | 66.66 | 10k | OTHR Burst system BD 3.9s |
| USKA | 7120.0 | 1805 | 21 | 03 | SOM | | A3E | | | Radio Hargaysa daily |
| USKA | 7124.0 | 1902 | 21 | 03 | | | J7D | 12x120 | 2k7 | PSK-2: CIS12 = AT3004D |
| USKA | 7128.5 | 1329 | 06 | 03 | | | J7D | 12x120 | 2k7 | PSK-2: CIS12 = AT3004D |
| USKA | 7134.0 | 0825 | 17 | 03 | | | J7D | | 2k7 | CIS12 system. idling |
| USKA | 7135.0 | 1517 | 05 | 03 | | | J7D | 12x120 | 2k7 | PSK-2: CIS12 = AT3004D |
| USKA | 7138.5 | 1541 | 06 | 03 | | | J7D | 12x120 | 2k7 | PSK-2: CIS12 = AT3004D |
| USKA | 7140.5 | 1101 | 11 | 03 | | | J7D | 12x120 | 2k7 | PSK-2: CIS12 = AT3004D |
| USKA | 7141.5 | 0921 | 04 | 03 | | | J7D | 12x120 | 2k7 | PSK-2: CIS12 = AT3004D often |
| USKA | 7143.5 | 1653 | 03 | 03 | | | J7D | 12x120 | 2k7 | PSK-2: CIS12 = AT3004D |
| USKA | 7166.0 | 2152 | 13 | 03 | | | B7D | 75 | 5k83 | LINK 11 CLEW 75Bd DQPSK DSB mode; DNCS IWM and IM |
| USKA | 7166.56 | 1618 | 02 | 03 | | R | A1A | | | Beacon ID = R |
| USKA | 7179.0 | 1647 | 03 | 03 | | | J7D | 12x120 | 2k7 | PSK-2: CIS12 = AT3004D often |
| USKA | 7192.0 | 1527 | 26 | 03 | | | J7D | 12x120 | 2k7 | PSK-2: CIS12 = AT3004D |
| USKA | 7200.0 | 2245 | 06 | 03 | | | A3E | | ±10k | BC, interfering 40m band daily sounds like Chinese language |
| USKA | 14003.0 | 1036 | 04 | 03 | | | F1B | 75 | 250 | |
| USKA | 14005.0 | 1058 | 04 | 03 | | | J7D | 12x120 | 2k7 | PSK-2: CIS12 = AT3004D |
| USKA | 14141.0 | 1001 | 05 | 03 | | | F1B | 75 | 500 | |
| USKA | 14192.0 | 1428 | 02 | 03 | | | F1B | 50 | 200 | CIS 50-50 almost daily |
| USKA | 14208.0 | 1534 | 26 | 03 | | | FMCW | 25 sps | 20k | OTHR, only short transmission |
| USKA | 14221.0 | 2315 | 04 | 03 | | | F1B | 41.85 | 200 | |
| USKA | 14225.0 | 2311 | 04 | 03 | | | FMCW | 66.66 | 10k | OTHR BD ~3.9 s |
| USKA | 14288.0 | 1304 | 13 | 03 | | | FMCW | 50 sps | 10k | OTHR |
| USKA | 14300.0 | 2312 | 16 | 03 | | | FMCW | 66.66 | 10k | OTHR BD ~3.9 s BRI ~34s |
| USKA | 14306.0 | 1020 | 11 | 03 | | | J7D | 12x120 | 2k7 | PSK-2: CIS12 = AT3004D |
| USKA | 14331.0 | 2227 | 18 | 03 | | | FMCW | 47 sps | 10k | OTHR, bursts BD ~5.5s BRI ~40s |
| USKA | 14344.65 | 1426 | 02 | 03 | | | PSK-8 | 2400 | 2k4 | similar MIL 188-110A, modified burst system daily |
| USKA | 18100.0 | 1138 | 11 | 03 | | C3 | MFSK8 | 125 | 1750 | MIL 188-141A "LQA" |
| USKA | 18107.0 | 1035 | 08 | 03 | | | F1B | 50 | 200 | CIS36-50 almost daily |
| USKA | 18107.0 | 1113 | 08 | 03 | | | F1B | 36 | 200 | CIS36-50 almost daily |
| USKA | 18137.0 | 1101 | 04 | 03 | | | F1B | 50 | 1k8 | harmonic |
| USKA | 21001.5 | 1017 | 11 | 03 | | | F1B | 100 | 150 | Vocoder Yakhta daily |
| USKA | 21112.0 | 1012 | 11 | 03 | | | FMCW | 47 sps | 20k | OTHR, bursts BD ~5.5s ~BRI 32s |
| USKA | 21130.0 | 0938 | 04 | 03 | | | FMCW | 50 sps | 20k | OTHR |
| USKA | 21229.5 | 1106 | 05 | 03 | | | OFDM | 75 | | over hours |
| USKA | 21305.0 | 1059 | 09 | 03 | | | FMCW | 47 sps | 10k | OTHR, bursts BD ~5.5s ~BRI 16.5s |
| USKA | 21347.0 | 0744 | 03 | 03 | | | FMCW | 66.66 | 10k | Burst system BD 3.9s ~BRI 33.7s |

| SOC | kHz | UTC | DD | MM | ITU | IDENT | MODE | BD | SH (BW) | DETAILS |
|------|----------|------|----|----|-----|-------|-------|------------|---------|---|
| USKA | 21373.0 | 1053 | 23 | 03 | | | FMCW | 47 sps | 10k | OTHR, burst system BD ~ 10.8s BRI 21.5s |
| USKA | 21390.0 | 0951 | 21 | 03 | | | FMCW | 50 sps | 20k | OTHR |
| USKA | 21400.2 | 1032 | 02 | 03 | | | PSK4 | 8x75 | | PRC 4+4 system |
| USKA | 21420.0 | 1722 | 27 | 03 | | | J3E-U | | 2k6 | Spanish, no ham, maybe fishery? several stations |
| USKA | 21427.0 | 0935 | 11 | 03 | | | FMCW | 66.66 sps | 10k | OTHR, bursts |
| USKA | 21435.0 | 0740 | 03 | 03 | | RCV | A1A | | | letters and figures; almost daily |
| USKA | 21451.0 | 0958 | 11 | 03 | | | FMCW | 47 sps | 20k | OTHR, bursts BD ~5.5s BRI variable 32s and 10s |
| USKA | 24910.0 | 0953 | 09 | 03 | | | FMCW | 50 sps | 20k | OTHR |
| USKA | 28001.5 | 1058 | 13 | 03 | RUS | | F1B | 100 | 150 | also encrypted voice (21000) Vocoder Yaktha |
| USKA | 28030.34 | 1244 | 13 | 03 | | | NON ? | | 1k | sweeping signal often |
| USKA | 28166.0 | 0928 | 15 | 03 | | | FMCW | 25 sps | 20k | OTHR |
| USKA | 28213.0 | 0946 | 16 | 03 | | | FMCW | 40 | 40k | OTHR |
| USKA | 28223.5 | 1117 | 13 | 03 | | | F1B | 100 | 150 | also encrypted voice Vocoder Yaktha |
| USKA | 28307.0 | 1100 | 31 | 03 | | | FMCW | 307 870 | ~50k | OTHR Burst system |
| USKA | 28475.0 | 1103 | 23 | 03 | | | FMCW | 307 870 | ~50k | OTHR Burst system |
| USKA | 28530.0 | 0946 | 04 | 03 | | | FMCW | 50 sps | 20k | OTHR |
| USKA | 28576.0 | 1224 | 13 | 03 | | | FMCW | 50 sps | 20k | OTHR |
| USKA | 28600.0 | 0841 | 17 | 03 | | | FMCW | 307 870 | ~50k | OTHR Burst system often |
| USKA | 28755.0 | 1044 | 18 | 03 | | | FMCW | 307 870 | ~50k | OTHR Burst system often |
| USKA | 28870.0 | 1210 | 02 | 03 | | | FMCW | 307 870 | ~50k | OTHR Burst system often |
| USKA | 28885.0 | 0959 | 31 | 03 | | | FMCW | 307 870 | ~50k | OTHR Burst system often |
| USKA | 28895.0 | 1203 | 02 | 03 | | | FMCW | 307 870 | ~50k | OTHR Burst system often |
| USKA | 28940.0 | 1352 | 03 | 03 | | | FMCW | 25 sps | 20k | OTHR |
| USKA | 28985.0 | 1108 | 04 | 03 | | | FMCW | 307 | ~50k | OTHR Burst system often |
| USKA | 29000.0 | 0959 | 16 | 03 | | | FMCW | 307 870 | ~50k | OTHR Bursts system often |
| USKA | 29450.0 | 1332 | 08 | 03 | | | F1B | 81.92 | 140 | Datawell buoy daily |
| USKA | 29500.0 | 1045 | 15 | 03 | | | FMCW | various | >50k | OTHR Burst system often |
| USKA | 29630.0 | 0928 | 15 | 03 | | | FMCW | 50 sps | 20k | OTHR |

Veron 1 – Netherlands – PA2GRU (Dick)

| SOC | kHz | UTC | DD | MM | ITU | IDENT | MODE | SHIFT | DETAILS |
|-------|---------|-------|----|----|------|-------|------|-------|-----------------------------------|
| VERON | 3552,0 | 20.55 | 17 | 3 | | UiPTR | F1B | | Revs (also at 20/03 19.50) |
| VERON | 3797,0 | 19.48 | 20 | 3 | | UiPTR | F1B | | Revs/Dotter |
| VERON | 7038,7 | 16.30 | 16 | 3 | UKR | D | A1A | | D-beacon (also at 20/03 19.45) |
| VERON | 7038,8 | 19.28 | 1 | 3 | RUS | P | A1A | | Beacon Kaliningrad |
| VERON | 7038,8 | 21.13 | 2 | 3 | RUS | P | A1A | | Beacon Kaliningrad |
| VERON | 7038,9 | 16.30 | 16 | 3 | RUS | S | A1A | | S-beacon (also at 20/03 19.46) |
| VERON | 7075,0 | 18.33 | 11 | 3 | | UiCAR | NON | | carrier, S-9 |
| VERON | 7120,0 | 16.49 | 10 | 3 | SOM | R.Har | A3E | | music |
| VERON | 7120,0 | 18.30 | 23 | 3 | SOM | R.Har | A3E | | music |
| VERON | 7120,0 | 18.36 | 26 | 3 | SOM | R.Har | A3E | | speech |
| VERON | 7135,0 | 18.50 | 5 | 3 | | UiMUX | PSK | | 12 MPSK AT3004D |
| VERON | 7137,0 | 21.33 | 1 | 3 | RUS? | UiPtr | F1B | 200 | |
| VERON | 7141,0 | 19.39 | 17 | 3 | RUS | UiMUX | PSK | | 12 MPSK AT3004D |
| VERON | 7177,0 | 19.50 | 17 | 3 | | UiMUX | PSK | | 12 MPSK AT3004D |
| VERON | 14008,0 | 08.13 | 19 | 3 | RUS | UiPtr | F1B | 500 | Ptr, Moscow |
| VERON | 14026,0 | 08.13 | 20 | 3 | RUS | UiMUX | PSK | | 12 MPSK AT3004D |
| VERON | 14135,0 | 10.58 | 12 | 3 | | UiPtr | F1B | 200 | Ptr |
| VERON | 14140,0 | 11.16 | 1 | 3 | RUS | UiPtr | F1B | 200 | Ptr |

| SOC | kHz | UTC | DD | MM | ITU | IDENT | MODE | SHIFT | DETAILS |
|-------|---------|-------|----|----|--------|-------|------|-------|--------------------------------|
| VERON | 14141,0 | 10.30 | 7 | 3 | | UiPtr | F1B | 500 | Ptr, also 9/3 09.53 utc |
| VERON | 14141,0 | 10.54 | 17 | 3 | | UiPtr | F1B | 200 | Ptr |
| VERON | 14141,0 | 12.16 | 17 | 3 | | UiPTR | F1B | | Ptr (also at 18/03 10.52) |
| VERON | 14192,0 | 16.20 | 1 | 3 | | UiPTR | F1B | | Revs/Ptr (also at 10/03 14.33) |
| VERON | 14192,0 | 15.54 | 1 | 3 | RUS | UiPtr | F1B | 200 | |
| VERON | 14253,0 | 10.00 | 26 | 3 | | UiPtr | F1B | 250 | Ptr |
| VERON | 21001,0 | 14.27 | 10 | 3 | | UiPTR | F1B | | Ptr |
| VERON | 21001,5 | 11.33 | 18 | 3 | RUS | UiPtr | F1B | 150 | Vocoder Yaktha, also 26/3 |
| VERON | 21199,0 | 13.24 | 30 | 3 | | UiMux | PSK4 | 400 | |
| VERON | 21312,0 | 10.02 | 26 | 3 | | OTHR | FMCW | | radar |
| VERON | 21322,0 | 09.55 | 9 | 3 | | | | | frequency hopper |
| VERON | 24909,0 | 10.00 | 9 | 3 | Cyprus | OTHR | FMCW | | radar Cyprus |
| VERON | 24930,0 | 16.01 | 20 | 3 | Cyprus | OTHR | FMCW | | radar |
| VERON | 28130,0 | 09.37 | 31 | 3 | RUS | TAXI | F3E | | female |
| VERON | 28135,0 | 10.25 | 7 | 3 | RUS | TAXI | F3E | | female |
| VERON | 28135,0 | 10.58 | 11 | 3 | RUS | TAXI | F3E | | female |
| VERON | 28135,0 | 10.55 | 17 | 3 | RUS | TAXI | F3E | | female, S-9, also 18/3 |
| VERON | 28145,0 | 10.57 | 11 | 3 | RUS | TAXI | F3E | | female |
| VERON | 28145,0 | 11.01 | 17 | 3 | RUS | TAXI | F3E | | female, S-9, also 18/3 |
| VERON | 28150,0 | 10.36 | 7 | 3 | RUS | TAXI | F3E | | female |
| VERON | 28155,0 | 11.05 | 17 | 3 | RUS | TAXI | F3E | | female, S-9 |
| VERON | 28155,0 | 08.40 | 19 | 3 | RUS | TAXI | F3E | | male,female |
| VERON | 28165,0 | 10.37 | 7 | 3 | RUS | TAXI | F3E | | female |
| VERON | 28165,0 | 09.38 | 31 | 3 | RUS | TAXI | F3E | | female |
| VERON | 28185,0 | 11.02 | 3 | 3 | RUS | TAXI | F3E | | female |
| VERON | 28190,0 | 11.00 | 11 | 3 | RUS | TAXI | F3E | | female |
| VERON | 28195,0 | 09.40 | 31 | 3 | RUS | TAXI | F3E | | female |
| VERON | 28223,0 | 11.15 | 13 | 3 | | UiPtr | F1B | 150 | Ptr |
| VERON | 28245,0 | 10.57 | 11 | 3 | RUS | TAXI | F3E | | female |
| VERON | 28255,0 | 10.56 | 11 | 3 | RUS | TAXI | F3E | | female |
| VERON | 28265,0 | 11.08 | 18 | 3 | RUS | TAXI | F3E | | female, S-9 +10dB |
| VERON | 28275,0 | 10.37 | 1 | 3 | RUS | TAXI | F3E | | female |
| VERON | 28275,0 | 10.37 | 7 | 3 | RUS | TAXI | F3E | | female |
| VERON | 28280,0 | 11.03 | 11 | 3 | RUS | TAXI | F3E | | female |
| VERON | 28285,0 | 15.40 | 2 | 3 | RUS | | F3E | | Taxi Traffic |
| VERON | 28360,0 | 10.49 | 11 | 3 | | OTHR | FMCW | | radar |
| VERON | 28632,0 | 13:59 | 2 | 3 | | | | | Frequency hopper |

The monitoring team of IARU Region 1

Many thanks for your interest!

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