



Monitoring System

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The monthly newsletter for Region 1

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Acknowledgements

ARAT: 3V8CB – Ahmed ++ ARI: DH7SA – Salvatore ++ ARSK: 5Z4BV - Kamweti ++ DARC: DK2OM – Wolf ++ EARS: A61M – Obaid ++ ERASD: SU1SA – Sayed ++ HRS: 9A5DGZ – Gianluca ++ IARC: 4Z1AB – Amos ++ IRTS: EI3GYB - Michael KARS: 9K2RR – Faisal ++ MARL: 9H1M – Dominic ++ MRASZ: HA7PL - Laci ++ NARS: 5N9AYM – Yusuf ++ NRRL: LA4EU – Hans Arne ++ OEVS: OE3GSA – Gerd ++ PZK: SP9BRP – Jan ++ RAL: OD5RI – Riri ++ REF: F5MIU – Francis ++ REP: CT4AN – Jose ++ ROARS: A41MA - Younis ++ RSGB: G4DYA - Richard ++ SARL: ZS6NS - James ++ SRAL: OH2BLU - Pekka ++ SSA – N.N. ++ UBA: ON8IM – Ivan +++ URE: EA6AMM - Gaspar ++ USKA: HB9CET - Peter ++ VERON: PG1R - Ruud ++ ZRS: S56ZDB – Darko ++ LU1BCE – Carlos (Co-ordinator Region 2) ++ YB3PET – Titon (Co-ordinator Region 3) ++ DF8FE – (Webmaster supp.) ++ DL8AAM (ALE) ++ DJ7KG (BUOYS) ++ DF5SX (BC) ++ DARC (server support) ++ OD5TE (Hani) ++ VE6SH – Tim (IARU President) ++ 9K2RR – Faisal (EC-IARU-R1) ++ PTTs: BAKOM (Swiss) ++ OFCOM (UK) ++ Dutch AT ++ Austrian PTT ++ German BNetzA Konstanz

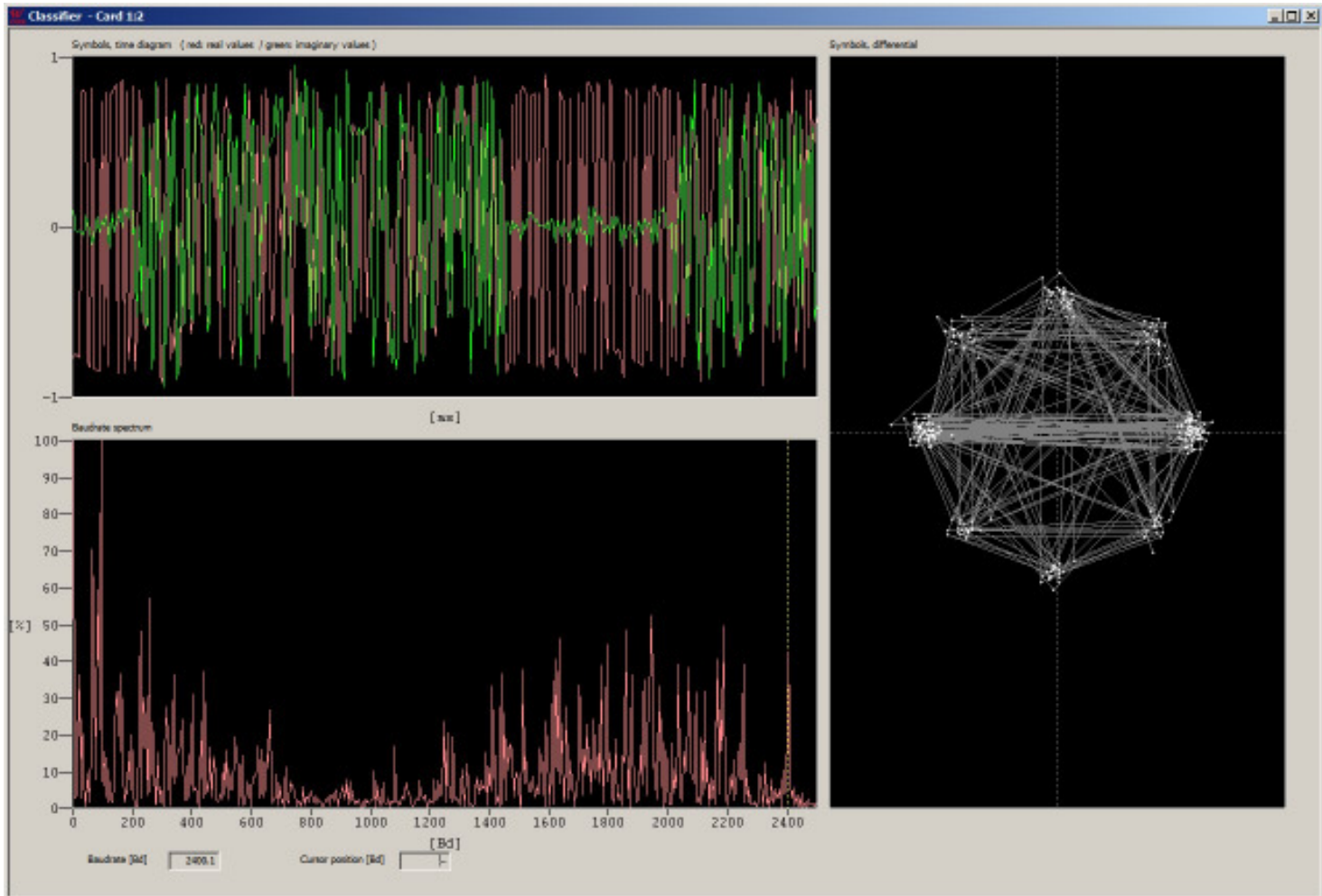
Part 1: News and Infos

1. 5361.80 kHz - Stanag-4285 – Danish Navy – legal operation!

The Danish Navy in Aarhus is operating on Stanag-4285 on 5361.8 kHz from time to time.

PSE observe: The Danish Navy is a primary user!

Screenshot: DK2OM with Wavcom W-Code showing the Baudrate and the phase plane (PSK8A traffic mode)



2. 7070.0 ALE net (MIL-188-141A)

We observed again an ALE net on 7070.0 kHz from Georgia.

3. 7070.0 Fishery meeting point

Illegal fishery traffic on USB was found on 7070 kHz often like telephone. Location probably North-West Africa.

4. 7120 kHz - Radio Hargeisa still off

Radio Hargeisa was not heard on 7120 kHz.

5. 14221.0 – F1B from Kyrgyzstan

The F1B on 14221.0 from Kyrgyzstan (Bishkek) was still daily active. Parameters: F1B, 50 Bd, 200 Hz shift, mostly idling. The German BNetzA Konstanz filed another complaint.

6. 7002.0 Pactor 1 net from Algeria

A Pactor 1 net was observed on 7002.0 kHz (center). The emissions were daily heard at various times.

7. 7193.0 F1B from Kaliningrad (Russia)

The F1B transmission on 7193.0 from Kaliningrad were often audible. Parameters: 50 Bd, 200 Hz shift, ident: RDL (Russian Navy) The German BNetzA Konstanz prepared another complaint.

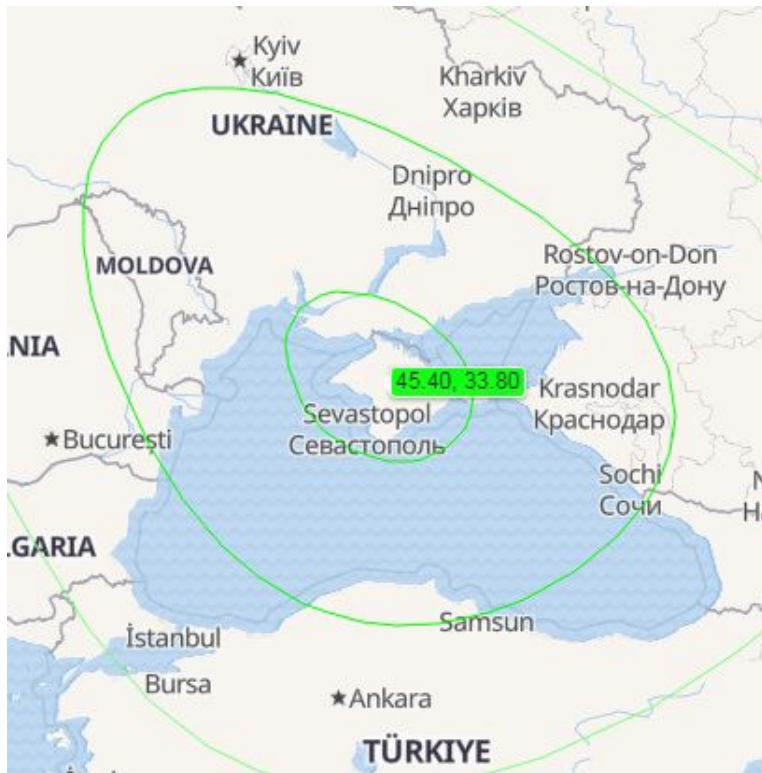
8. 29650.0 – Datawell buoy at the area of Amrum – Germany

A German HAM reported an F1B transmission on 29650.0 kHz. Parameters: F1B – 81.9 Bd – 140 Hz shift, well known for Datawell buoys at coastal regions. The transmissions were finished.

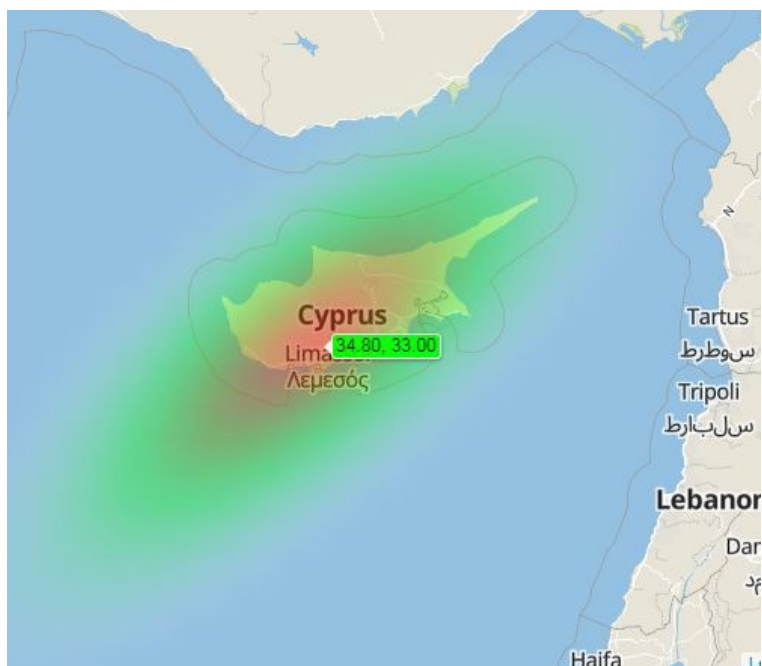
9. Russian OTH radar Contayner on 7200 kHz

The Russian OTH radar "Contayner" was on air on 7200 kHz on Dec. 11th.

10. Bearings with TDoA:



The Russian MIL system AT3004D (12 x 120 Bd PSK2A) on 3511.0 kHz on Dec. 11th.
Please observe: Shared band!



OTH radar Cyprus on 21170 kHz on Dec. 11th
Parameters: FMCW, 50 sweeps/sec, 20 kHz wide

11. Miscellaneous news:

- 3516.0 kHz – USB – Spanish fishermen every morning
- 5350.0 kHz – USB – Spanish fishery – splattering up to 5353.0 kHz
- 7070.0 kHz – USB – Spanish fishery
- 7120.0 kHz – A3E – Radio Hargeisa mostly off in Dec. 2018
- 7140 and 7180 kHz – A3E – Radio Eritrea without QRM (German PTT informed)
- 14295.0 kHz – harmonic from Radio Tajik on 4765 kHz (no change)

- 12. Homepage IARU Region 1
- Homepage IARUMS Region 1
- Homepage IARUMS Region 2
- Homepage IARUMS Region 3
- Intruderlogger Region 1
- ITU-Monitoring Reports

- <http://www.iaru-r1.org/>
- <http://www.iarums-r1.org>
- <http://www.iarums-r2.org/>
- <http://iaru-r3.org/iaru-region-3-monitoring-system-newsletter/>
- <http://peditio.net/intruder/bluechat.cgi>
- <http://www.itu.int/en/ITU-R/terrestrial/monitoring/Pages/Regular.aspx>

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 *** PRF = pulse repetition frequency (radar) = sps *** sps = sweeps/sec (radar systems) *** FMCW = frequency modulated continuous wave (OTH radars)
 FMOP = frequency modulation on pulse (OTH radars) *** 5BL = cyrillic 5 lettergroups *** DF = direction finder

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

DG0JBJ (Mario) observed 4 OTH radar on 40 m, 8 OTH radars on 20 m, 65 OTH radars on 17m, 28 OTH radars on 15 m and 0 OTH radars on 10 m in December 2018. Mario has finished his service on Dec. 31st 2018. Many thanks dear Mario for your long lasting support!

DARC 2 – Germany - DK2OM (Wolf)

FSK transmissions -> center frequency between mark and space

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

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

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


| DK2OM | kHz | UTC | DD | MM | ITU | IDENT | MODE | BD | SH/SP | DETAILS |
|-------|--------------|------|-----|----|----------|--------|--------------|------------|-------|---|
| DK2OM | 1810,5 | ady | dly | 12 | ROU | | A1A | | | CW beacon – YR2TOP – 1810.518 kHz – just for info |
| DK2OM | 1812,0 | 2058 | 07 | 12 | RUS | | USB LSB | | | 14 tones – hyperbolic radio navigation system – BRAS-3/RS-10 – Kaliningrad – daily, all day |
| DK2OM | 1855,0 | 2028 | 10 | 12 | I | IQP | USB | | | San Benedetto Radio, weather reports - daily |
| DK2OM | 1888,0 | 1955 | 31 | 12 | I | IPD | USB | | | Civitavecchia Radio, weather reports - daily |
| DK2OM | 1925,0 | 2030 | 10 | 12 | I | IPL | USB | | | Livorno Radio, weather reports - daily |
| DK2OM | 3500,0 | 0920 | 12 | 12 | E | | USB | | | Spanish fishery |
| DK2OM | 3503,5 | vt | dly | 12 | G | no ITU | FSK8 | 125 | 1750 | ALE – “XSS” “XPU” “XJR” – British MIL Tascomm – vt, daily - legal! |
| DK2OM | 3506,0 | 2010 | 19 | 12 | RUS | | PSK2A | 120 | 2600 | AT3004D – submode idle – area of Tambov |
| DK2OM | 3511,0 | 1957 | 11 | 12 | RUS | | PSK2A | 120 | 2600 | AT3004D - Sevastopol |
| DK2OM | 3525,0 RF | --- | -- | 12 | F | | PSK8 | 2400 | 2400 | Link11 – SLEW - area of Marseille |
| DK2OM | 3527,0 | 2000 | dly | 12 | RUS | | F1B | 50 | 200 | Severomorsk - daily |
| DK2OM | 3529,0 RF | 2024 | 03 | 12 | Atlantic | | PSK4 | 75 | 2400 | LINK11-CLEW – ship area of Azores Islands |
| DK2OM | 3531,0 | --- | -- | 12 | RUS | REA4 | N0N | | | unclean carrier - RUS airforce Moscow, ident: full hour + 40 min - daily |
| DK2OM | 3532,0 | 2100 | 12 | 12 | F | | PSK4 | 75 | 5800 | LINK11-CLEW on both sidebands (5800 Hz wide) – area of Brest – legal! |
| DK2OM | 3548,0 | 2023 | 04 | 12 | RUS | RDL | F1B | 50 | 200 | RUS navy Kaliningrad |
| DK2OM | 3550,0 | 0630 | dly | 12 | F | | A3E | | | French amateurs not respecting bandplans – every morning |
| DK2OM | 3550,0 | 2000 | 08 | 12 | RUS | | PSK2A | 120 | 2600 | AT3004D - Sevastopol |
| DK2OM | 3550,0 | 1620 | 16 | 12 | E | | USB | | | Spanish fishery |
| DK2OM | 3550,7 | 1629 | 16 | 12 | ISR | | PSK4 PSK8 | 75 2400 | 2400 | hybrid modem – ISR Navy – PSK4 parallel and PSK8 serial - legal operation! |
| DK2OM | 3553,8 | ady | dly | 12 | TUR | | PSK8A | 2400 | 2400 | Stanag4285 – 600 bps long -TUR |

| DK2OM | kHz | UTC | DD | MM | ITU | IDENT | MODE | BD | SH/SP | DETAILS |
|-------|--------------|------|-----|----|-----|--------|--------|------|-------|---|
| | | | | | | | | | | MIL - Ankara – daily, all day - legal operation |
| DK2OM | 3566,0 | 2042 | 13 | 12 | E | | USB | | | Spanish fishery |
| DK2OM | 3579,6 | 1743 | 12 | 12 | BLR | | F1B | 81 | 280 | very unclear |
| DK2OM | 3585,0 | ady | dly | 12 | TWN | HLL | F1C | | 800 | WX-fax Taiwan - 120 rpm, IOC 576 - daily, all day - legal! |
| DK2OM | 3586,0 | vt | dly | 12 | HOL | | PSK2A | 40 | 40 | Amsterdam - daily |
| DK2OM | 3586,0 | 2058 | 20 | 12 | RUS | | F1B | 66 | 200 | idle – unclear – Veliky Novgorod |
| DK2OM | 3590,0 | 1950 | 19 | 12 | RUS | | PSK2A | 120 | 2600 | AT3004D - Moscow |
| DK2OM | 3590,0 | 1620 | 31 | 12 | F | | A3E | | | French amateurs not respecting bandplans |
| DK2OM | 3594,2 | --- | -- | 12 | RUS | F | A1A | | | Cluster beacon F - Vladivostok RUS Navy - “RJS” |
| DK2OM | 3595,0 | --- | -- | 12 | RUS | K | A1A | | | Cluster beacon - Petropavlovsk Kamchatskiy - RUS Navy - Pacific fleet - “RCC” |
| DK2OM | 3596,0 | vt | dly | 12 | J | | FSK8 | 125 | 1750 | ALE, “JHIESB” – just for info! |
| DK2OM | 3622,5 | ady | dly | 12 | J | JMH | F1C | | 800 | Tokyo Meteo – 120 rpm – IOC 576 – daily, all day - legal!!! |
| DK2OM | 3635,0 | 2030 | 07 | 12 | UKR | | PSK4 A | 120 | 2600 | AT3104D – West-Ukraine |
| DK2OM | 3716,5 | 2027 | 11 | 12 | RUS | | PSK2A | 120 | 2600 | AT3004D – submode idle - Kaliningrad |
| DK2OM | 3756,0 | 1800 | dly | 12 | RUS | | USB | | | RUS MIL – channel marker – Tuapse – East Black Sea – night QRG – daily |
| DK2OM | 3792,0 | 2030 | 11 | 12 | RUS | | F1B | 50 | 200 | Kaliningrad – shared band! |
| DK2OM | 5285,0 | 2247 | 17 | 12 | RUS | | FMOP | | 120k | Russian coastal radar “Sunflower” – 43 sps – 5285 – 5405 kHz - Makhachkala |
| DK2OM | 5350,0 | --- | -- | 12 | E | | USB | | | Spanish fishery – splattering up |
| DK2OM | 5352,0 | 1952 | 11 | 12 | | | USB | | | unid pirates – weak signal |
| DK2OM | 5355,0 | 1957 | 02 | 12 | RUS | | FMOP | | 50k | Russian coastal radar “Sunflower” – 43 sps – 5355 – 5405 kHz - Makhachkala |
| DK2OM | 5360,5 | 1440 | 22 | 12 | RUS | | F1B | 50 | 200 | Moscow - legal |
| DK2OM | 5361,8 RF | 1510 | 17 | 12 | DNK | OUA15 | PSK8A | 2400 | 2400 | Stanag-4285 – 600 bps long – assigned to Danish Navy Aarhus - legal – primary user ! |
| DK2OM | 5362,0 | 1235 | 21 | 12 | RUS | | PSK2A | 120 | 2600 | AT3004D – submode idle – NW of Bryansk – legal! |
| DK2OM | 7000,0 | ady | dly | 12 | RUS | | FMOP | | 14k | coastal radar Sunflower - 43 sps 7000 – 7005 kHz – NE of Vladivostok |
| DK2OM | 7008,0 | 1130 | 19 | 12 | RUS | | F1B | 75 | 250 | Moscow - daily |
| DK2OM | 7010,0 | vt | vd | 12 | ALB | no ITU | FSK8 | 125 | 1750 | ALE, “RS0” - Tirana |
| DK2OM | 7010,0 | 1400 | 27 | 12 | RUS | | PSK2A | 120 | 2600 | AT3004D - Moscow |
| DK2OM | 7018,0 | --- | -- | 12 | RUS | REA4 | F1B | 100 | 800 | mostly idling – Russian airforce Moscow – ident at full hour + 41 min. on F1A |
| DK2OM | 7020,0 | vt | vd | 12 | ALB | | FSK8 | 125 | 1750 | ALE, “CS004A” “RS004D” “CS004” - daily |
| DK2OM | 7031,0 RF | 0900 | 18 | 12 | RUS | | unid | | | pulsing carrier and spurious – 7032.170 - Sevastopol |
| DK2OM | 7036,0 | 1713 | 29 | 12 | RUS | | F1B | 50 | 250 | Samara |
| DK2OM | 7038,8 | --- | -- | 12 | RUS | P | A1A | | | Cluster beacon „P“– Kaliningrad RUS Navy – “RMP” |
| DK2OM | 7039,0 | --- | -- | 12 | RUS | C | A1A | | | Cluster beacon „C“ - Moscow RUS Navy - “RIW” |
| DK2OM | 7039,2 | --- | -- | 12 | RUS | F | A1A | | | Cluster beacon „F“ - Vladivostok RUS Navy - “RJS” |
| DK2OM | 7039,3 | --- | -- | 12 | RUS | K | A1A | | | Cluster beacon “K” Petropavlovsk Kamchatskiy - RUS Navy - Pacific fleet - “RCC” - daily |
| DK2OM | 7039,4 | ady | dly | 12 | RUS | M | A1A | | | Cluster beacon „M“ – Magadan |

| DK2OM | kHz | UTC | DD | MM | ITU | IDENT | MODE | BD | SH/SP | DETAILS |
|-------|---------------|------|-----|----|--|--------|-------------|------|-------|--|
| | | | | | | | | | | RUS Navy – „RTS“ - daily |
| DK2OM | 7040,5 | vt | dly | 12 | HRV | | FSK8 | 125 | 1750 | ALE, “9A5EX” “9A0ALE” – just for info |
| DK2OM | 7049,5 | vt | dly | 12 | HRV G M1DFO F F6BAZ I IW3IPM | 9A0ALE | FSK8 | 125 | 1750 | Amateur ALE, just for info! daily – various times |
| DK2OM | 7050,0 | vt | dly | 12 | KGZ | | FSK8 | 125 | 1750 | ALE, “X” “810” “820615” “810698” – Kyrgyzstan MIL |
| DK2OM | 7055,0 | vt | dly | 12 | UKR | | LSB | | | music and Russian voices |
| DK2OM | 7070,0 | 2227 | 05 | 12 | GEO | | FSK8 | 125 | 1750 | ALE, „20001“ „10003“ „2201“ „2203“ „686“ „288“ „220“ „571“ |
| DK2OM | 7070,0 | 1100 | 06 | 12 | E | | USB | | | Spanish fishery – like telephone |
| DK2OM | 7071,0 | 0900 | 12 | 12 | | PJN | A1A | | | CW asking for QSY |
| DK2OM | 7072,0 | 1110 | 10 | 12 | RUS | | PSK4A | 120 | 2600 | AT3104D - Moscow |
| DK2OM | 7088,8 | --- | -- | 12 | S | SL0FRO | A1A | | | 7088.830 kHz - cw-trainee, Sweden - SL0FRO - just for info! |
| DK2OM | 7089,0 | 1757 | 13 | 12 | RUS | | PSK2A | 120 | 2600 | AT3004D - Penza |
| DK2OM | 7089,8 | --- | -- | 12 | TUR | | PSK8 | 2400 | 2400 | Link11 - SLEW – aircraft ? west of Izmir |
| DK2OM | 7099,5 | vt | dly | 11 | HRV | 9A0ZG | FSK8 | 125 | 1750 | ALE, “9A0ZG” “9A5EX1P” “9A0OS” – daily - just for info! |
| DK2OM | 7102,0 | vt | vd | 12 | HRV SUI D | 9A0MIL | FSK8 | 125 | 1750 | ALE, “9A3MIL” “9A2KS” “HB9MHB” “9A0ZG” “9A4OS” “DK0ESD” – just for info! |
| DK2OM | 7110,0 | vt | dly | 12 | HRV | 9A0ALE | FSK8 | 125 | 1750 | ALE, “9A0ALE” – just for info |
| DK2OM | 7111,0 LSB | 1832 | 05 | 12 | CHN | | PSK4A | 60 | 2350 | burst system “PRC-30” – 30 tones – 450 Hz pilot tone |
| DK2OM | 7112,0 | 1420 | 27 | 12 | RUS | | PSK2A | 120 | 2600 | AT3004D – ssubmode idle |
| DK2OM | 7117,0 | --- | -- | 12 | RUS | REA4 | F1B | 100 | 1000 | mostly idling – Russian airforce Moscow – ident on CW at 1640 utc on the mark-QRG |
| DK2OM | 7120,0 | --- | -- | 12 | SOM | | A3E | | 9k | Radio Hargeisa – Somaliland |
| DK2OM | 7137,0 | vt | dly | 12 | TWN | | FSK8 LSB | 125 | 1750 | ALE, “EDKLT” “EVSNG” “ECCLT” “EFNGX” “EVNNM” “EVWRK” “EGFXA” “ECQUY” “EFYMO” “EWPEN” “ECXKF” “EWRAJ” “ECHTD” “EUIQE” “EBPGH” Taiwanese navy |
| DK2OM | 7140,0 | 1827 | dly | 12 | ERI | | A3E | | 9k | 7140.024 kHz - Radio Eritrea |
| DK2OM | 7156,0 | 1400 | 05 | 12 | FEa | | FMOP | | 32k | Codar like ocean surface radar 2.6 sps – 7156 – 7188 kHz |
| DK2OM | 7160,0 | vt | 30 | 12 | FEa | | FMOP | | 32 | Codar like ocean surface radar 2.6 sps – 7160 – 7192 kHz |
| DK2OM | 7180,0 | 1526 | dly | 12 | ERI | | A3E | | 9k | 7180.022 kHz - Radio Eritrea |
| DK2OM | 7185,0 | vt | dly | 12 | HRV | | FSK8 | 125 | 1750 | ALE, „9A5EX“ – just for info |
| DK2OM | 7185,5 | vt | dly | 12 | J TWN | | FSK8 | 125 | 1750 | ALE, “BV4AS” “JH1ESB” - just for info - daily |
| DK2OM | 7193,0 | 0919 | 03 | 12 | RUS | RDL | F1B | 50 | 200 | CIS36-50 - Kaliningrad |
| DK2OM | 7197,0 | vt | dly | 12 | TUR | | FSK8 | 125 | 1750 | ALE, „353013“ „334018“ „314013“ - Turkish Civil Avunma – Turkish Civil Defense |
| DK2OM | 7198,0 | 0927 | 24 | 12 | RUS | | PSK2A | 120 | 2600 | AT3004D – Moscow |
| DK2OM | 7200,0 | --- | -- | 12 | MMR | | A3E | | 9k | Myanmar Radio |
| DK2OM | 7200,0 | 1236 | 11 | 12 | RUS | | FMCW | | 6k | OTH radar Contayner – 7197 – 7203 kHz |
| DK2OM | 10100,8 | ady | dly | 12 | D | DDK9 | F1B | 50 | 450 | Baudot - German Weatherservice – legal! |
| DK2OM | 10110,0 | vt | dly | 12 | SNG | | FSK8 | 125 | 1750 | ALE, “CN6” “68” – Singapore Navy - Changi Naval Base |

| DK2OM | kHz | UTC | DD | MM | ITU | IDENT | MODE | BD | SH/SP | DETAILS |
|-------|---------|------|-----|----|---------------|--------|-------|------------------------------|---------------------------------|--|
| DK2OM | 10113,0 | vt | vd | 12 | TUN | | FSK8 | 125 | 1750 | ALE, "TUD" "STAT5" "STAT154" |
| DK2OM | 10114,0 | vt | dly | 12 | ALG | | FSK8 | 125 | 1750 | ALE, "BSF" "ZEN" "CM2OR2" |
| DK2OM | 10115,0 | vt | dly | 12 | MRC | | FSK8 | 125 | 1750 | ALE, "100" "114" "203" "XXZ" – West Sahara |
| DK2OM | 10120,0 | vt | dly | 12 | ALG | | FSK8 | 125 | 1750 | ALE, "CM6" "01012016" |
| DK2OM | 10120,0 | 1610 | 24 | 12 | CYP | | FMCW | | 20k | OTH radar Cyprus – 10110 – 10130 kHz |
| DK2OM | 10123,0 | vt | dly | 12 | ALG | | FSK8 | 125 | 1750 | ALE, "CM3" "COF" "BSF" "CM2" "ESA" – Algerian Airforce |
| DK2OM | 10124,0 | vt | dly | 12 | ALG | | FSK8 | 125 | 1750 | ALE, "OEB" - ALG airforce |
| DK2OM | 10129,0 | vt | dly | 12 | ALG | | FSK8 | 125 | 1750 | ALE, "CM1" "CTF" "772" |
| DK2OM | 10130,0 | 0820 | 07 | 12 | RUS | | F1B | 50 100 | 500 | unclean - area of Chita – daily, all day |
| DK2OM | 10130,0 | vt | dly | 12 | MLI | | FSK8 | 125 | 1750 | ALE, „105002“ „105018“ - Mali |
| DK2OM | 10130,0 | 1457 | 10 | 12 | CYP | | FMCW | | 20k | OTH radar Cyprus - 50 sps – 10120 – 10140 kHz |
| DK2OM | 10132,0 | vt | vd | 12 | F | | USB | | | French amateurs not respecting bandplans and disturbing beacons |
| DK2OM | 10136,0 | vt | dly | 12 | ALG | | FSK8 | 125 | 1750 | ALE, "CM3" "BLD" "CNC" "TF2" |
| DK2OM | 10144,0 | ady | dly | 12 | D | DK0WCY | A1A | | | 10144.000 kHz - DK0WCY – German aurora beacon – just for info! |
| DK2OM | 10145,5 | vt | dly | 12 | | JH1ESB | FSK8 | 125 | 1750 | ALE, "JH1ESB" - just for info - daily |
| DK2OM | 10145,5 | vt | dly | 12 | TWN AUS | BV4AS | FSK8 | 125 | 1750 | ALE, "BV4AS" "VK4SAA" – just for info! |
| DK2OM | 14000,0 | vt | dly | 12 | FEa | | USB | | | Far East pirates – east of Indonesia |
| DK2OM | 14100,0 | vt | dly | 12 | ALG | | FSK8 | 125 | 1750 | ALE, "6206" "6204" "6212" "6202" "6203" "6207" "6217" "MTL" "IJ" – Mauritanian border – daily, all day |
| DK2OM | 14108,0 | --- | -- | 12 | RUS | 6TY5 | A1A | | | encrypted groups – RUS MIL – area of Moscow |
| DK2OM | 14109,0 | vt | dly | 12 | TWN | HAM | FSK8 | 125 | 1750 | ALE, "BV4AS" – daily - just for info! |
| DK2OM | 14109,0 | vt | dly | 12 | S HRV D | | FSK8 | 125 | 1750 | ALE, "SM3FXL" "9A4OS" "9A3BRV" "DK0ESD" - just for info! |
| DK2OM | 14109,0 | vt | vd | 12 | J | | FSK8 | 125 | 1750 | ALE, "JH1ESB" – just for info |
| DK2OM | 14120,0 | 0949 | 19 | 12 | RUS | | PSK2A | 120 | 2600 | AT3004D – submode idle, test and traffic - Petrozavodsk |
| DK2OM | 14155,0 | 0818 | 13 | 12 | CHN | | FMOP | | 160k | Chinese wideband OTH radar – 10 sps – 14155 – 14315 kHz |
| DK2OM | 14160,0 | vt | dly | 12 | MRC | | FSK8 | 125 | 1750 | ALE, "9204" "9228" "9236" |
| DK2OM | 14173,0 | vt | vd | 12 | ? | | FSK8 | 125 | 1750 | ALE, „ABC“ „AKO“ „DD2“ „XYZ“ |
| DK2OM | 14192,0 | vt | dly | 12 | RUS | | F1B | 50 75 50 100 100 | 500 500 200 500 200 | RUS navy Kaliningrad - daily |
| DK2OM | 14221,0 | 0520 | 14 | 12 | KGZ | | F1B | 50 | 200 | Bishkek – mostly idling - daily various times |
| DK2OM | 14260,0 | vt | dly | 12 | SRB | YU1BI | FSK8 | 125 | 1750 | ALE, "YU1BI" – just for info! |
| DK2OM | 14260,0 | --- | -- | 12 | UKR | | A3E | | | female voice with encrypted msgs – figures – "SZRU" = Foreign Intelligence Service of Ukraine in Rivne |
| DK2OM | 14295,0 | vt | dly | 12 | SRB | YU1BI | FSK8 | 125 | 1750 | ALE, "YU1BI" – just for info! |
| DK2OM | 14346,0 | vt | dly | 12 | POR | | FSK8 | 125 | 1750 | ALE, "CT2IXQ" just for info – |

| DK2OM | kHz | UTC | DD | MM | ITU | IDENT | MODE | BD | SH/SP | DETAILS |
|-------|----------------|-------------|------------|-----------|------------|--------|---------------|-----|-------|--|
| | | | | | | | | | | various times, daily |
| DK2OM | 14348,5 | 0847 | 20 | 12 | THA | HS0ZEA | A1A | | | HS0ZEA beacon – 14348.488 kHz - every 5 minutes – daily - just for info! |
| DK2OM | 18055,0 | 0915 | 08 | 12 | CYP | | FMCW | | 20k | OTH radar splattering up to 18068 kHz |
| DK2OM | 18070,0 | 0850 | 31 | 12 | CYP | | FMCW | 20k | | OTH radar Cyprus – 50 sps - 18060 – 18080 kHz |
| DK2OM | 18080,0 | 0630 | dly | 12 | TWN | | A3E/BC | | | Sound of Hope – Taiwan and Chinese BC jammer – daily at 06 utc and later |
| DK2OM | 18100,0 | vt | dly | 12 | MRC | | FSK8 | 125 | 1750 | ALE, “A2” “A4” “A5” “A7” “S6” – “C3” “R3” “G401” “CD” “09” “G2” “LG6” “G301” “ELJADIDNET4” - daily, various times |
| DK2OM | 18106,0 | vt | vd | 12 | POR | CT2GOY | FSK8 | 125 | 1750 | ALE, “CT2GOY” – just for info! |
| DK2OM | 18106,2 | vt | dly | 12 | TWN | | FSK8 | 125 | 1750 | ALE, “BV4AS” – just for info! |
| DK2OM | 18107,0 | vt | vd | 12 | RUS | RDL | F1B | 50 | 200 | CIS-50-200 - Moscow – idle and traffic – daily - Russian navy – shared band! |
| DK2OM | 18150,0 | --- | -- | 12 | RUS | | F1B | 100 | 1000 | harmonic from 9075 (100 Bd, 500 Hz) - Kaliningrad |
| DK2OM | 18160,0 | 0940 | 26 | 12 | CYP | | FMCW | | 20k | OTH radar Cyprus – 50 sps - 18160 – 18180 kHz |
| DK2OM | 21000,0 | --- | -- | 12 | B | | USB | | | Brazilian pirates – Rio de Janeiro with North Brazil – very often |
| DK2OM | 21096,0 | vt | dly | 12 | INS | YD00XH | FSK8 | 125 | 1750 | ALE, “YD00XH3” – daily, various times - just for info! |
| DK2OM | 21096,0 | vt | vd | 12 | G | | FSK8 | 125 | 1750 | ALE, “M1DFO” – just for info! |
| DK2OM | 21145,0 | vt | dly | 12 | MRC | | FSK8 | 125 | 1750 | ALE, “A” “B301” “C3”, “IR4” “H4” “IR6” “T4” “E4” “A2” “CD” “K3” “KB2” “J5” “J52” “GR2” “GS4” “R3” “R301” “R33” “R8” “R5” “Y1” “S51” “S3” “S4” “S512” “S552” “G2” “G501” - various times, daily |
| DK2OM | 21170,0 | 0942 | 11 | 12 | CYP | | FMCW | | 20k | OTH radar Cyprus – 50 sps |
| DK2OM | 21190,0 | --- | -- | 12 | RUS | | F1B | 100 | 1000 | harmonic from 10595 kHz - Moscow |
| DK2OM | 21400,0 | --- | -- | 12 | RUS | | F1B | 50 | 2000 | harmonic from 5350 kHz – area of Moscow |
| DK2OM | 21438,0 | vt | vd | 12 | RUS | RCV | A1A | | | RKZ – RJV de RCV - RUS Navy Sevastopol - often |
| DK2OM | 21446,0 | --- | -- | 12 | THA | HS0ZEA | A1A | | | HS0ZEA beacon – every 5 minutes - just for info! |
| DK2OM | 25000,0 | --- | -- | 12 | FIN | | A3E | | | time signal Helsinki – just for info – carrier on 25000 – dots on 25001 and 24999 – daily, all day – just for info! |
| DK2OM | 28000,0 | --- | -- | 12 | B | | A3E | | | Brazilian CBers – 28000 – 28325 – daily, all day - no change |
| DK2OM | 28000,0 | --- | -- | 12 | CIS | | F3E | | | 28000 – 29700 numerous CIS taxi nets – no change |
| DK2OM | 28025,0 | --- | -- | 12 | POR | | F1B | 51 | 320 | F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoy |
| DK2OM | 28051,5 | --- | -- | 12 | POR | | F1B | 51 | 320 | F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoy |
| DK2OM | 28065,0 | --- | -- | 12 | POR | | F1B | 51 | 320 | F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoy |
| DK2OM | 28075,0 | --- | -- | 12 | POR | | F1B | 51 | 320 | F1B bursts - west of Lisbon – |

| DK2OM | kHz | UTC | DD | MM | ITU | IDENT | MODE | BD | SH/SP | DETAILS |
|-------|---------|------|-----|----|-----|-------|----------|------|-------|--|
| | | | | | | | | | | Atlantic Ocean - Enagal GPS buoy |
| DK2OM | 28085,1 | --- | -- | 12 | POR | | F1B | 51 | 320 | F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoy |
| DK2OM | 28212,0 | --- | -- | 12 | POR | | F1B | 51 | 320 | F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoy |
| DK2OM | 28275,0 | --- | -- | 12 | POR | | F1B | 51 | 320 | F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoy |
| DK2OM | 28435,0 | ---- | -- | 12 | E | | F1B | 81.9 | 140 | Datawell-buoy “Waverider” – 28435.040 kHz – Costa del Sol – Malaga |
| DK2OM | 28459,8 | --- | -- | 12 | GAB | | A3E | | 1060 | carrier and dots in USB and LSB, bursts every 60 sec – carrier – Gabon - daily |
| DK2OM | 28499,8 | --- | -- | 12 | MEa | | F1B | 81.9 | 140 | Datawell-buoy “Waverider” – 28499.875 kHz – Persian Gulf |
| DK2OM | 28746,5 | --- | -- | 12 | GAB | | A3E | | | carrier and dots in USB and LSB, bursts every 60 sec – carrier – Gabon |
| DK2OM | 28751,6 | --- | -- | 12 | GAB | | A3E | | 1080 | carrier and dots in USB and LSB, bursts every 60 sec – carrier – Gabon |
| DK2OM | 28860,0 | --- | -- | 12 | IRN | | AM-pulse | | 55k | Iranian radar bursts – 313 and 150 sps – long lasting |
| DK2OM | 29114,0 | --- | -- | 12 | RUS | | F1B | 100 | 2000 | harmonic from 14557.0 kHz - Moscow |
| DK2OM | 29249,9 | --- | -- | 12 | E | | F1B | 81.9 | 140 | Datawell-buoy “Waverider” – 29249.880 kHz – Spain Fuerteventura – reported by CT2IWW |
| DK2OM | 29375,0 | --- | -- | 12 | I | | F1B | 81.9 | 140 | Datawell-buoy “Waverider” – 29374.898 kHz – Gallipoli, South Italy - daily, all day |
| DK2OM | 29387,5 | --- | -- | 12 | IND | | F1B | 81.9 | 140 | Datawell-buoy “Waverider” – 29387.460 kHz – Indian NW coast, close to Pakistan - daily, all day |
| DK2OM | 29400,0 | --- | -- | 12 | USA | | F1B | 81.9 | 140 | Datawell-buoy “Waverider” – 29400.070 kHz - USA north-east coast – NY daily, all day |
| DK2OM | 29450,0 | --- | -- | 12 | MRC | | F1B | 81.9 | 140 | Datawell-buoy “Waverider” – 29449.863 kHz - area of El Aaiun – Morocco - daily, all day |
| DK2OM | 29500,0 | --- | -- | 12 | G | | F1B | 81.9 | 140 | Datawell-buoy “Waverider” – 29499.974 kHz- area of Gibraltar – daily, all day |
| DK2OM | 29525,0 | --- | -- | 12 | MRC | | F1B | 81.9 | 140 | Datawell-buoy “Waverider” – 29524.990 kHz - Agadir - Morocco – daily, all day |
| DK2OM | 29625,0 | --- | -- | 12 | USA | | F1B | 81.9 | 140 | Datawell-buoy “Waverider” – 29625.024 kHz - USA north-east coast – daily, all day |
| DK2OM | 29650,0 | ady | dly | 12 | D | | F1B | 81.9 | 140 | Datawell-buoy “Waverider” – area of Sylt / Amrum – German PTT informed |
| DK2OM | 29685,0 | --- | -- | 12 | I | | VFT | | 2300 | Italian MIL – Brescia - daily |
| DK2OM | 29699,5 | --- | -- | 12 | I | | VFT | | 1600 | Italian MIL – Brescia - daily |
| DK2OM | 50100,0 | vt | dly | 12 | D | | QRM | | | 1.8 - 50 MHz strong QRM by a neighbouring LED lamp - since April 2016 - “many thanks” to German “PTT” Eschborn  |

IRTS – Ireland – EI3GYB (Michael)

| SOC | kHz | UTC | DD | MM | ITU | IDENT | MODE | DETAILS |
|------|--------|------|----|----|-----------|-------|---------|---|
| IRTS | 1812 | 1755 | 07 | 12 | RUS | | USB/LSB | Russian military Kaliningrad. Heard from late afternoon through all night nearly every day with medium strength. |
| IRTS | 1846 | 1930 | 31 | 12 | | | LSB | Somebody broadcasts music on and off to disturb a SOTA activation. |
| IRTS | 1890 | 1840 | 16 | 12 | E or MM | | USB | 2 Spanish fishermen. Bad audio. |
| IRTS | 1980 | 1823 | 28 | 12 | POR or MM | | USB | 2 Portuguese fishermen. Portuguese VHF traffic in the background of one of the ships. Also loud motor noise coming from one of the ships. |
| IRTS | 3517 | 1130 | 02 | 12 | POR or MM | | USB | 2 Portuguese fishermen. One of them has an unstable transmitter moving between 3517.25 and 3717.45 KHz. Chat ends at 1143z. |
| IRTS | 3550 | 0700 | 03 | 12 | F | | AM | Group of French HAMs violating the band plan on a daily basis. Strong signals. |
| IRTS | 3550 | 1340 | 05 | 12 | DNK or MM | | USB | 2 male voices having a chat in Danish. Ends at 1350z. |
| IRTS | 3550 | 1740 | 11 | 12 | POR or MM | | USB | Group of Portuguese fishermen. Big signals. |
| IRTS | 3590 | 0705 | 03 | 12 | F | | AM | Second group of HAMs violating the band plan on a daily basis. |
| IRTS | 3591.7 | 1504 | 31 | 12 | POR or MM | | USB | 2 Portuguese fishermen. Medium signals. |
| IRTS | 3600 | 1745 | 07 | 12 | UKR/R US | | LSB | Agitprop. Donbass area. Loud. |
| IRTS | 3640 | 1315 | 17 | 12 | POR or MM | | USB | 2 Portuguese fishermen. Loud. |
| IRTS | 3653 | 1800 | 23 | 12 | | | USB | Loud pop music. |
| IRTS | 3657 | 2150 | 11 | 12 | UZB | | CW | Letter "V" from Khiva. Strong signal. |
| IRTS | 3676 | 1130 | 12 | 12 | IRL or MM | | USB | 2 Irish fishermen. One has a Galway accent. The other one is the one with an Egyptian accent already observed several times in the past. The chat ended at 1137z. "I'll give you a shout in a couple of hours!" |
| IRTS | 3731.5 | 1753 | 28 | 12 | POR or MM | | USB | 2 Portuguese fishermen. Very loud. |
| IRTS | 3766 | 1900 | 16 | 12 | | | LSB | Very loud oriental music. Ends 1915z. |
| IRTS | 3773 | 1327 | 09 | 12 | POR or MM | | USB | 2 Portuguese fishermen. Strong signals. |
| IRTS | 3784 | 1920 | 16 | 12 | UKR/R US | | LSB | Agitprop in Russian. |
| IRTS | 5280 | 0835 | 05 | 12 | MRC or MM | | USB | Group of Moroccan fishermen. They make this Irish spot frequency unusable. |
| IRTS | 5298 | 1833 | 05 | 12 | F or MM | | USB | 2 French fishermen. Splattering down on the Irish spot frequency of 5298.5KHz. Also heard on the 7th at 1300z. On the 9 th at 1530z. On the 10th at 1200z. |
| IRTS | 5320 | 1740 | 09 | 12 | E or MM | | USB | 2 Spanish fishermen right in the centre of a UK allocation. |
| IRTS | 5327 | 2045 | 02 | 12 | | | FMCW | Strong radar from 5327 to 5390 KHz. Observed on many evenings, all night and early mornings. Always renders the band unusable. |
| IRTS | 5329 | 1433 | 27 | 12 | E or MM | | USB | 2 Spanish fishermen. Strong signals. Splattering up to the Irish spot frequency of 5330.5 KHz. Loud motor noise from both ships. |
| IRTS | 5360 | 0100 | 05 | 12 | MRC or MM | | USB | Moroccan fisherman. Calling at 0100 and 0130z- but gets no reply. |
| IRTS | 5360 | 1800 | 20 | 12 | MRC or MM | | USB | North African net. Strong signals. On and off. Sometimes mobile phone ringing tones audible featuring North African music. |
| IRTS | 5368 | 1355 | 05 | 12 | F or MM | | USB | 2 French fishermen. Huge signals. Loud motor noise from both ships. One of them keeps whistling. Heavy splatter into the WARC 5 |

| SOC | kHz | UTC | DD | MM | ITU | IDENT | MODE | DETAILS | |
|------|-------|------|----|----|------------|-------|---------|--|--|
| | | | | | | | | MHZ band. Frequency is actually a UK allocation for 5 MHz as well. Also heard on the 10 th at 1430z. | |
| IRTS | 5400 | 1930 | 11 | 12 | E or MM | | USB | Spanish fishermen. Strong signals. Also heard on the 14 th at 1820z and the 16 th at 1910z. 21 st at 1915z. This frequency- and Irish and UK spot frequency- is very popular among fishermen. | |
| IRTS | 7050 | 1125 | 01 | 12 | UKR/R US | | LSB | Russian-Ukrainian propaganda war. Most days with strong signals until around 2200z. | |
| IRTS | 7055 | 1130 | 01 | 12 | UKR/R US | | LSB | Russian-Ukrainian propaganda war. Most days with strong signals until 2200z. | |
| IRTS | 7056 | 1146 | 01 | 12 | UKR/R US | | USB | Female voice reading numbers in Russian. Very strong. | |
| IRTS | 7070 | 1410 | 05 | 12 | E or MM | | USB | 2 Spanish fishermen. Chatting on and off until 1530z. Also heard on the 6 th between 0700 and 1115z. One of the fishermen is named Julio. | |
| IRTS | 7070 | 1451 | 05 | 12 | RUS or UKR | | LSB | Female voice reading numbers in Russian. | |
| IRTS | 7070 | 1015 | 06 | 12 | | | Digital | Digital signal. Low. Probably Russian military. | |
| IRTS | 7130 | 1850 | 14 | 12 | INS or MM | | USB | Indonesian fishermen chatting. | |
| IRTS | 7140 | 0430 | 28 | 12 | ERI | | AM | Radio Eritrea. Medium signal. Heard on some days of the month. Irregular broadcasts. | |
| IRTS | 7180 | 1730 | 11 | 12 | ERI | | AM | Radio Eritrea. Big signal. Heard very often- but not daily- in the late afternoon. | |
| IRTS | 7194 | 0810 | 04 | 12 | | | Digital | Very strong digital signal. Probably Russian military. | |
| IRTS | 10100 | 1240 | 10 | 12 | | | FMCW | Radar from 10100 to 10107 KHz. Monster signal makes this band again unusable. | |
| IRTS | 10107 | 1446 | 27 | 12 | | | FMCW | Radar from 10107 to 10131 KHz. Very strong. All frequencies unusable. Ends 1518z. Radar was observed quite often at this time of the day on this band during the month. | |
| IRTS | 10108 | 1535 | 09 | 12 | | | FMCW | Radar from 10108 to 10132 KHz. Huge signal. Band again unusable. | |
| IRTS | 10115 | 1510 | 08 | 12 | | | FMCW | Radar from 10115 to 10136 KHz. Huge signal. Most of this WARC band is unusable. | |
| IRTS | 14005 | 1250 | 12 | 12 | | | LSB | Female voice „Athens Volmet“. WX reports in English with a Greek accent. On and off. Sounded like somebody was rebroadcasting that station from Greece. | |
| IRTS | 18068 | 1300 | 12 | 12 | | | FMCW | Radar from 18068 to 18090 KHz. | |

KARS – Kuwait – 9K2RR (Faisal)

MRASZ – Hungary - HA7PL (Laci)

| SOC | kHz | UTC | DD | MM | ITU | IDENT | MODE | BD | SH | DETAILS |
|-------|--------|------|----|----|-----|-------|------|----|-----|-----------------------------------|
| MRASZ | 3505,0 | 1827 | 17 | 12 | | | OTHR | | | 3500-3510 kHz, 100 Hz |
| MRASZ | 3506,0 | 1944 | 19 | 12 | | | PSK2 | | | AT3004D |
| MRASZ | 3511,0 | 1915 | 11 | 12 | | | PSK2 | | | AT3004D |
| MRASZ | 3522,0 | 1745 | 16 | 12 | | | A1A | | | "3ANL de DAL6 K" |
| MRASZ | 3547,0 | 1537 | 08 | 12 | | | F1B | | 200 | |
| MRASZ | 3548,0 | 1921 | 19 | 12 | | | F1B | | 200 | + deliberate disturb.with A1 dots |
| MRASZ | 3550,0 | 1754 | 02 | 12 | | | PSK2 | | | AT3004D |
| MRASZ | 3550,0 | 0816 | 11 | 12 | | | USB | | | weak, unidentified |
| MRASZ | 3550,0 | 1824 | 17 | 12 | | | PSK2 | | | AT3004D |
| MRASZ | 3550,0 | 1924 | 19 | 12 | | | PSK2 | | | AT3004D |
| MRASZ | 3559,0 | 1536 | 08 | 12 | | | PSK2 | | | AT3004D |
| MRASZ | 3559,0 | 1609 | 31 | 12 | | | PSK2 | | | AT3004D |
| MRASZ | 3573,0 | 1613 | 31 | 12 | | | A1A | | | dots, deliberate disturbance |
| MRASZ | 3576,0 | 1635 | 16 | 12 | | | F1B | | 220 | |

| SOC | kHz | UTC | DD | MM | ITU | IDENT | MODE | BD | SH | DETAILS |
|-------|--------|------|----|----|-----|-------|------|----|-----|--------------------------------------|
| MRASZ | 3576.5 | 1615 | 31 | 12 | | | A1A | | | "IZ3DVW/beacon" |
| MRASZ | 3590.0 | 1921 | 19 | 12 | | | PSK2 | | | AT3004D |
| MRASZ | 3596.6 | 1805 | 27 | 12 | | | USB | | | female, unidentified |
| MRASZ | 3598.0 | 1854 | 18 | 12 | | | USB | | | "hallo hallo" |
| MRASZ | 3598.0 | 0958 | 21 | 12 | | | PSK2 | | | AT3004D |
| MRASZ | 3600.0 | 1827 | 27 | 12 | | | A3E | | | unidentified |
| MRASZ | 3603.5 | 1834 | 17 | 12 | | | PSK2 | | | AT3004D |
| MRASZ | 3606.0 | 1917 | 11 | 12 | | | F1B | | 250 | |
| MRASZ | 3630.0 | 1557 | 08 | 12 | | | LSB | | | music |
| MRASZ | 3641.0 | 1530 | 29 | 12 | | | A1A | | | "2P44 de UCAV QTC 711 3T 17TT" |
| MRASZ | 3642.0 | 1911 | 18 | 12 | CHN | | A1A | | | "V DKG6 (3x) de 3A7D (2x)" |
| MRASZ | 3642.0 | 2011 | 19 | 12 | CHN | | A1A | | | "V DKG6 (3x) de 3A7D (2x)" |
| MRASZ | 3653.0 | 1534 | 08 | 12 | | | F1B | | 200 | |
| MRASZ | 3653.0 | 1912 | 11 | 12 | | | F1B | | 200 | |
| MRASZ | 3653.0 | 1913 | 19 | 12 | | | F1B | | 200 | |
| MRASZ | 3657.0 | 1700 | 02 | 12 | UZB | | A1A | | | beacon "V", Thaskent |
| MRASZ | 3657.0 | 1829 | 17 | 12 | UZB | | A1A | | | beacon "V", Thaskent |
| MRASZ | 3657.0 | 1745 | 18 | 12 | UZB | | A1A | | | beacon "V", Thaskent |
| MRASZ | 3657.0 | 1914 | 19 | 12 | UZB | | A1A | | | beacon "V", Thaskent |
| MRASZ | 3657.0 | 1849 | 27 | 12 | UZB | | A1A | | | beacon "V", Thaskent |
| MRASZ | 3657.0 | 1529 | 29 | 12 | UZB | | A1A | | | beacon "V", Thaskent |
| MRASZ | 3657.0 | 1607 | 31 | 12 | UZB | | A1A | | | beacon "V", Thaskent |
| MRASZ | 3686.0 | 0904 | 29 | 12 | | | USB | | | "proba proba"; Rumanian ham |
| MRASZ | 3702.0 | 1619 | 31 | 12 | | | PSK2 | | | AT3004D |
| MRASZ | 3705.0 | 1537 | 29 | 12 | | | A1A | | | "REChKWQ WSMScHt" |
| MRASZ | 3707.5 | 1000 | 21 | 12 | | | PSK2 | | | AT3004D |
| MRASZ | 3716.5 | 1840 | 11 | 12 | | | PSK2 | | | |
| MRASZ | 3725.0 | 1605 | 31 | 12 | | | LSB | | | chaos, distorted music |
| MRASZ | 3726.0 | 1915 | 19 | 12 | | | A1A | | | "OIÖJI KOPÄÄ = K" |
| MRASZ | 3728.0 | 1748 | 18 | 12 | | | F1B | | 250 | |
| MRASZ | 3738.0 | 1915 | 19 | 12 | | | F1B | | 250 | |
| MRASZ | 3767.0 | 0822 | 11 | 12 | | | PSK2 | | | |
| MRASZ | 3784.0 | 1917 | 19 | 12 | | | A1A | | | "T85 = 118" "=11111 6T 8 44"; 5F |
| MRASZ | 3791.0 | 1641 | 16 | 12 | | | PSK2 | | | AT3004D |
| MRASZ | 3792.0 | 1525 | 06 | 12 | RUS | | F1B | | 200 | Kaliningrad |
| MRASZ | 3792.0 | 1532 | 08 | 12 | RUS | | F1B | | 200 | Kaliningrad |
| MRASZ | 3792.0 | 1830 | 11 | 12 | RUS | | F1B | | 200 | Kaliningrad |
| MRASZ | 3792.0 | 1920 | 11 | 12 | RUS | | F1B | | 200 | Kaliningrad |
| MRASZ | 3792.0 | 1752 | 18 | 12 | RUS | | F1B | | 200 | Kaliningrad |
| MRASZ | 3798.0 | 1425 | 29 | 12 | | | F1B | | 200 | |
| MRASZ | 7010.0 | 0935 | 23 | 12 | | | PSK2 | | | AT3004D |
| MRASZ | 7027.0 | 1315 | 06 | 12 | | | OTHR | | | 7000-7054 kHz |
| MRASZ | 7050.0 | 0854 | 29 | 12 | | | LSB | | | russian/ukrainian chaos |
| MRASZ | 7055.0 | 0929 | 01 | 12 | | | LSB | | | chaos as usual |
| MRASZ | 7055.0 | 1256 | 06 | 12 | | | LSB | | | chaos, music, singing |
| MRASZ | 7055.0 | 0949 | 16 | 12 | | | LSB | | | chaos, russian propaganda |
| MRASZ | 7055.0 | 0954 | 23 | 12 | | | LSB | | | chaos |
| MRASZ | 7055.0 | 0855 | 29 | 12 | | | LSB | | | russian, chaos |
| MRASZ | 7056.0 | 0947 | 21 | 12 | | | USB | | | russian spell with name's, 5L and 5F |
| MRASZ | 7083.0 | 0932 | 25 | 12 | | | PSK2 | | | AT3004D |
| MRASZ | 7119.0 | 0928 | 01 | 12 | | | PSK2 | | | AT3004D |
| MRASZ | 7120.0 | 1657 | 02 | 12 | SOM | | A3E | | | R. Hargaysa |
| MRASZ | 7120.0 | 1358 | 06 | 12 | SOM | | A3E | | | R. Hargaysa |
| MRASZ | 7140.0 | 1657 | 02 | 12 | ERI | | A3E | | | R. Eritrea |
| MRASZ | 7140.0 | 1359 | 06 | 12 | ERI | | A3E | | | R. Eritrea |
| MRASZ | 7140.0 | 1538 | 08 | 12 | ERI | | A3E | | | R. Eritrea |
| MRASZ | 7140.0 | 1828 | 11 | 12 | ERI | | A3E | | | R. Eritrea |
| MRASZ | 7140.0 | 1831 | 17 | 12 | ERI | | A3E | | | R. Eritrea |
| MRASZ | 7140.0 | 1656 | 27 | 12 | ERI | | A3E | | | R. Eritrea |
| MRASZ | 7140.0 | 1524 | 29 | 12 | ERI | | A3E | | | R. Eritrea |
| MRASZ | 7140.0 | 1610 | 31 | 12 | ERI | | A3E | | | R. Eritrea |
| MRASZ | 7159.0 | 0931 | 23 | 12 | | | F1B | | 110 | |

| SOC | kHz | UTC | DD | MM | ITU | IDENT | MODE | BD | SH | DETAILS |
|-------|---------|------|----|----|-----|-------|------|-------|-----|---------------------------------|
| MRASZ | 7164,5 | 1541 | 08 | 12 | | | F1B | 45,45 | 170 | "IT9DSZ" 3582,25, 2nd. harmonic |
| MRASZ | 7180,0 | 1658 | 02 | 12 | ERI | | A3E | | | R. Eritrea |
| MRASZ | 7180,0 | 1400 | 06 | 12 | ERI | | A3E | | | R. Eritrea |
| MRASZ | 7180,0 | 1538 | 08 | 12 | ERI | | A3E | | | R. Eritrea |
| MRASZ | 7180,0 | 1827 | 11 | 12 | ERI | | A3E | | | R. Eritrea |
| MRASZ | 7180,0 | 1656 | 27 | 12 | ERI | | A3E | | | R. Eritrea |
| MRASZ | 7180,0 | 1524 | 29 | 12 | ERI | | A3E | | | R. Eritrea |
| MRASZ | 7180,0 | 1610 | 31 | 12 | ERI | | A3E | | | R. Eritrea |
| MRASZ | 7193,0 | 1258 | 06 | 12 | | | F1B | | 200 | |
| MRASZ | 7193,0 | 1401 | 06 | 12 | | | F1A | | | "VVV XXX" |
| MRASZ | 7193,0 | 1402 | 06 | 12 | | | F1B | | 200 | |
| MRASZ | 7193,0 | 0824 | 11 | 12 | | | F1B | | 200 | |
| MRASZ | 7193,0 | 0922 | 14 | 12 | | | F1B | | 200 | |
| MRASZ | 7193,0 | 0859 | 16 | 12 | | | F1B | | 200 | |
| MRASZ | 7193,0 | 0930 | 16 | 12 | | | A1A | | | deliberate disturbance for F1B |
| MRASZ | 7198,0 | 0853 | 29 | 12 | | | PSK2 | | | AT3004D |
| MRASZ | 10103,0 | 0928 | 23 | 12 | | | F1A | | 200 | "KAVÖI NZLChL KJVÖI K" |
| MRASZ | 10123,0 | 0930 | 25 | 12 | | | F1B | | 230 | |
| MRASZ | 10130,0 | 0826 | 11 | 12 | | | F1B | | 500 | daily, all day |
| MRASZ | 10144,0 | 0901 | 29 | 12 | | | PSK2 | | | AT3004D |
| MRASZ | 18149,0 | 0853 | 11 | 12 | | | OTHR | | | 18130-18168 kHz |

OEVSV – Austria – OE3GSA (Gerd)

PZK – Poland – SP9BRP (Jan)

REF – France – F5MIU (Francis)

| SOC | kHz | UTC | DD | MM | ITU | IDENT | MODE | Sh /Bw | DETAILS |
|--------|-------|------|----|----|-----|-------|------|--------|---|
| R.E.F. | | | | | | | | | December 2018 |
| F5MIU | 7070 | 0955 | 10 | 12 | | | usb | | Spanish fisheries frequently |
| F5MIU | 10120 | 1703 | 11 | 12 | | | fmcw | 20kHz | OTH Radar pulsed 20ms,S9+ |
| F5MIU | 10140 | 0900 | 03 | 12 | | | usb | | USB out of band,Spanish. lang. Fishermans ? |
| F5MIU | 14015 | 0850 | 03 | 12 | | | usb | | USB on CW band, unid. lang. Fishermans ? |
| F5MIU | 14305 | 0910 | 4 | 12 | | | fmcw | 10kHz | OTH Radar pulsed 24ms,S7 hopping frequency |
| F5MIU | 18060 | 0845 | 6 | 12 | | | fmcw | 20kHz | OTH Radar pulsed 20ms,S9 |
| F5MIU | 18070 | 0849 | 31 | 12 | | | fmcw | 20kHz | OTH Radar pulsed 20ms,S9+ |
| F5MIU | 21150 | 0848 | 26 | 12 | | | fmcw | 20kHz | OTH Radar pulsed 20ms,S9+ |
| F5MIU | 21310 | 0855 | 10 | 12 | | | fmcw | 20kHz | OTH Radar pulsed 20ms,S8 |

REP – Portugal – CT4AN (Jose Francisco)

| SOC | kHz | UTC | DD | MM | ITU | IDENT | MODE | BD | SH | DETAILS |
|-----|------|-------|----|----|-----|-------|-------|----|----|---|
| REP | 3505 | 06.00 | 02 | 12 | E | | J3E-U | | | Spanish fishery |
| REP | 3520 | 19.58 | 01 | 12 | RUS | | H2A | 10 | | Enigma M01B |
| REP | 3550 | 07.04 | 17 | 12 | POR | | J3E-U | | | Portuguese fishery |
| REP | 3550 | 17.37 | 07 | 12 | ALG | RK37 | MFSK8 | | | Mil Std 188-141A Ale net presumed Algerian Military, exchanging LQA information w/ NX30 |
| REP | 3550 | 09.29 | 12 | 12 | POR | | J3E-U | | | Portuguese fishery |
| REP | 3560 | 06.12 | 02 | 12 | E | | J3E-U | | | Fishery, everyday |

| SOC | kHz | UTC | DD | MM | ITU | IDENT | MODE | BD | SH | DETAILS |
|-----|---------|-------|----|----|-----|--------|--------------|-----|-----|---|
| REP | 3570 | 21.11 | 12 | 12 | F | | J3E-U | | | French fishery |
| REP | 3570 | 09.30 | 23 | 12 | F | | J3E-U | | | French fishery |
| REP | 3575 | 07.17 | 08 | 12 | E | | J3E-U | | | Spanish fishery, dly |
| REP | 3675 | 21.02 | 11 | 12 | HOL | PBK | J3E-U | | | Netherlands Coast Guard |
| REP | 3680 | 06.07 | 12 | 12 | E | | J3E-U | | | Fishery |
| REP | 3720 | 22.58 | 12 | 12 | E | | J3E-U | | | Spanish fishery |
| REP | 3731,5 | 17.28 | 13 | 12 | E | | J3E-U | | | Spanish fishery |
| REP | 3750 | 07.37 | 29 | 12 | POR | | J3E-U | | | Portuguese fishery |
| REP | 3755 | 19.15 | 18 | 12 | RUS | | A3E | | | Russian mil marker |
| REP | 7000 | 19.02 | 03 | 12 | B | | J3E-U | | | Brazilian fishery, daily |
| REP | 7000.3 | 17.30 | 06 | 12 | I | | J3E-L | | | Italian speaking intruders |
| REP | 7003,5 | 09.03 | 20 | 12 | ALG | ALOUEF | FSK | 200 | 100 | Pactor 1 mailbox system sellcalling several cities in Adrar province, Algeria. Daily, presumably Algerian Customs |
| REP | 7005 | 07.15 | 05 | 12 | E | | J3E-U | | | Spanish fishery |
| REP | 7000.5 | 20.33 | 04 | 12 | B | | J3E-U | | | Brazilian fishery, daily |
| REP | 7006 | 07.50 | 08 | 12 | | | J3E-U | | | Unid arabic fishery |
| REP | 7007,95 | 10.29 | 22 | 12 | RUS | | FSK | 50 | 250 | CIS36-50 region of Moscow, via TDoA |
| REP | 7008 | 09.40 | 20 | 12 | RUS | | FSK | 75 | 250 | CIS-50 Russian mil |
| REP | 7010 | 17.50 | 04 | 12 | | 920001 | MFSK8 / PSK2 | | | Mil Std 188-141A Ale net 92xxx calls, sounding and exchanging AMD packets, daily, all day. USB and LSB. Also CLOVER-2000 and voice comms. |
| REP | 7013 | 18.32 | 04 | 12 | | 10625 | MFSK8 | | | Mil Std 188-141A Ale net 10xxxx calls |
| REP | 7013 | 18.27 | 18 | 12 | | 304003 | MFSK8 | | | Mil Std 188-141A Ale net 30xxxx net, new user here. Calling 300517 |
| REP | 7014 | 10.40 | 03 | 12 | RUS | | PSK-4 | | | CIS-12 multiple PSK modem, central Russia |
| REP | 7014 | 19.04 | 20 | 12 | | | J3E-U | | | Unid language voice comms |
| REP | 7015 | 20.01 | 07 | 12 | | 209000 | FSK-8 | | | ALE |
| REP | 7018 | 16.56 | 18 | 12 | | | J3E-U | | | Unid language voice comms |
| REP | 7020 | 19.27 | 20 | 12 | RUS | V | A1A | | | BEACON |
| REP | 7036 | 23.19 | 20 | 12 | RUS | P | A1A | | | KALINIGRAD |
| REP | 7045 | 17.37 | 04 | 12 | | 1016 | MFSK8 | | | Mil Std 188-141A Ale net 1/2xxx series unid, daily |
| REP | 7045 | 17.56 | 10 | 12 | | 92004 | MFSK8 | | | Mil Std 188-141A 92xxxx net, unid location and user, daily, all day |
| REP | 7049 | 11.59 | 07 | 12 | | | J3E-U | | | Unid language comms |
| REP | 7050 | 13.11 | 19 | 12 | RUS | | J3E-L | | | Russia / Ukraine propaganda war, daily |
| REP | 7055 | 18.10 | 01 | 12 | RUS | | J3E-L | | | Russia and Ukraine propaganda |
| REP | 7055 | 13.13 | 19 | 12 | RUS | | J3E-L | | | Russia / Ukraine propaganda war, daily |
| REP | 7058 | 18.35 | 04 | 12 | GEO | | MFSK8 | | | Mil Std 188-141A Ale net purportedly Georgian Border Guards |
| REP | 7063 | 11.18 | 19 | 12 | RUS | | FSK | | | CIS36-50 encrypted Russian military 50/200 |
| REP | 7070 | 08.03 | 19 | 12 | MRC | | FSK-8 | | | Civil Defence |
| REP | 7070 | 08.50 | 14 | 12 | | | FSK8 | | | Several nets |
| REP | 7070 | 19.01 | 04 | 12 | | 20002 | MFSK8 | | | Mil Std 188-141A Ale net 1/2xxx series unid, daily |
| REP | 7070 | 10.22 | 10 | 12 | E | | J3E-U | | | Spanish fishery |
| REP | 7070 | 18.50 | 14 | 12 | RUS | | PSK-4 | | | CIS-12 12x120bd 3,3k tone, idling |
| REP | 7070 | 17.54 | 18 | 12 | GEO | | MFSK8 | | | Mil Std 188-141A Ale net purportedly Georgian Border Guards |
| REP | 7087,2 | 16.28 | 13 | 12 | RUS | | PSK-4 | | | CIS12/AT3004D Russian mil, 12x120bps + 3k pilot tone |
| REP | 7100 | 18.29 | 14 | 12 | RUS | | F1B | 50 | 200 | CIS36 |
| REP | 7120 | 19.17 | 05 | 12 | SOM | | 8k00 A3EGN | | | Radio Hargeisa |
| REP | 7120 | 19.14 | 03 | 12 | SOM | | A3E8K | | | Radio Hargeisa, Somaliland, daily |
| REP | 7127 | 10.38 | 22 | 12 | RUS | | PSK-4 | | | CIS12/AT3004D Russian mil, 12x120bps + 3.3k pilot tone |
| REP | 7140 | 18.41 | 05 | 12 | ETH | | 8k00 A3EGN | | | Radio Eritreia |
| REP | 7160 | 07.12 | 23 | 12 | G | Link | PSK8 | | | Nato ship |
| REP | 7180 | 17.59 | 02 | 12 | ETH | | A3E8K | | | Voice of the Broad Masses of Eritrea, |

| SOC | kHz | UTC | DD | MM | ITU | IDENT | MODE | BD | SH | DETAILS |
|-----|-------|-------|----|----|-----|-------|-------|----|-----|--|
| | | | | | | | | | | Ethiopia |
| REP | 7193 | 11.20 | 19 | 12 | RUS | | FSK | 50 | 200 | Russian CIS36-50 and dit jammer |
| REP | 7197 | 16.51 | 13 | 12 | TUR | | MFSK8 | | | Turkish Civil Defense Authority (AFAD) Mil Std188-141A ALE sounding, daily |
| REP | 7198 | 11.23 | 19 | 12 | RUS | | PSK-4 | | | CIS12/AT3004D Russian mil, 12x120bps + 3.3k pilot tone |
| REP | 7205 | 17.23 | 13 | 12 | CHN | RCI | A3E8K | | | Radio China Int. Esperanto broadcast, splattering |
| REP | 10115 | 22.58 | 16 | 12 | E | | J3E-U | | | Spanish fishery |
| REP | 10135 | 21.54 | 16 | 12 | MRC | | J3E-U | | | Moroccan fishery |
| REP | 14014 | 11.10 | 25 | 12 | | | J3E-U | | | Unid intruder net |
| REP | 14192 | 11.40 | 25 | 12 | RUS | | FSK | 50 | 200 | Russian Navy, encrypted |
| REP | 18075 | 11.00 | 12 | 12 | | | FMCW | 50 | 20k | OTH radar |
| REP | 21000 | 12.20 | 21 | 12 | E | | J3E-U | | | Spanish fishery |
| REP | 21210 | 13.32 | 21 | 12 | | | FMCW | | | OTH radar |
| REP | 21215 | 14.15 | 21 | 12 | MRC | | J3E-U | | | Fishermen |
| REP | 28555 | 10.09 | 20 | 12 | RUS | | F3E | | | Taxis dispatchers |
| REP | 28725 | 11.17 | 20 | 12 | RUS | | F3E | | | Taxis dispatchers |

RSGB - Great Britain – G4DYA (Richard)

| SOC | kHz | UTC | DD | MM | ITU | IDENT | MODE | BD | SH/BW | DETAILS |
|------|---------|-----------|-----|----|-----|----------------|------|----|--------|--------------------------------------|
| RSGB | 7038.5 | ady | dly | 12 | CZE | OK0EU | A1A | | | For info: QRP propagation beacon |
| RSGB | 7120.0 | vt | vd | 12 | SOM | Radio Hargeysa | A3E | | | BC |
| RSGB | 7140.0 | vt | vd | 12 | ERI | VoBM1 | A3E | | | BC |
| RSGB | 7180.0 | vt | vd | 12 | ERI | VoBM2 | A3E | | | BC |
| RSGB | 7193.0 | 1034-1450 | 04 | 12 | | | F1B | | 200 | |
| RSGB | 7198.0 | 1249 | 05 | 12 | | | J7D | | 2K70-E | USB 7196.0 / CIS-12 |
| RSGB | 10100.8 | ady | dly | 12 | D | DDK9 | F1B | 50 | 450 | For info: Primary user: WX broadcast |
| RSGB | 10133.0 | 1231 | 15 | 12 | | | | | 20K0-E | OTHR |

RSK – Kenya – 5Z4BV (Kamweti)

| Soc | kHz | UTC | DD | MM | ITU | Identity | MODE | Details |
|-----|-------|------|------------|----|----------------------|----------------|-----------|---------------------------|
| RSK | 7008 | 0633 | 12 | 12 | Kenya/ E. Africa? | ? | J3E-u | Mil-Kiswahili msg net |
| RSK | 7030 | v.t. | occasional | 12 | E. Africa? | ? | J3E-u | Mil-Kiswahili msg net |
| RSK | 7040 | 1105 | 10 | 12 | S. Sudan/ E. Africa? | ? | J3E-u | Kiswahili msg net |
| RSK | 7070 | v.t. | occasional | 12 | E./ Central Africa? | ? | J3E-l | Vernacular QSO |
| RSK | 7120 | v.t. | dly | 12 | Somaliland | Radio Hargeysa | A3E | Broadcast |
| RSK | 7130 | 1905 | 15 | 12 | Western Indian Ocean | ? | J3E-u | Mandarin QSO |
| RSK | 14110 | a.m. | 13 | 12 | Russia | ? | FMOP-OTHR | Russian 'kontayner' 20sps |
| RSK | 14160 | a.m. | 20 | 12 | Russia | ? | FMOP-OTHR | Russian 'kontayner' 20sps |

SRAL – Finland – OH2BLU (Pekka)

| Society | kHz | UTC | DD | MM | ITU | IDENT | MODE | BAUD | SHIFT | REMARKS |
|---------|---------|-------------|----------|----|-----|---------------|-------------|------|-------|--------------------|
| SRAL | 6999.0 | 0815-1040 | 1 3 | 12 | | UiMUX | PSK2 | 120 | 2600 | |
| SRAL | 7001.0 | 0800-0830/ | 17 | 12 | | UiCarr | N0N | | | 50 Hz brum |
| SRAL | 7008.0 | 0630-1900 | * | 12 | | UiPTR | F1B | | 250 | Days: 19. 20. 22. |
| SRAL | 7010.0 | 0930-1405 | * | 12 | RUS | UiMUX | PSK2 | 120 | 2600 | Days: 23. 24. 27. |
| SRAL | 7012.0 | 1230-1500 | 4 | 12 | | UiPTR | F1B | | 250 | |
| SRAL | 7014.0 | 1020-1155/ | 7 15 | 12 | | UiPTR | F1B | | 250 | |
| SRAL | 7015.0 | 1000-1010/ | 4 | 12 | | UiCW | A1A | | | 5F |
| SRAL | 7016.0 | 1150 | 9 | 12 | | UiPTR | F1B | | 250 | |
| SRAL | 7044.0 | 1640 | 17 | 12 | | UiPTR | F1B | | 500 | |
| SRAL | 7062.0 | 0810-0840/ | 5 12 | 12 | RUS | 454 | A3E | | | 5F, synthetic fem. |
| SRAL | 7063.0 | 0930-1215 | 5 | 12 | | UiPTR | F1B | | 250 | |
| SRAL | 7066.0 | 0830-0850/ | 3 | 12 | | UiPTR | F1B/ N0N | | 250 | |
| SRAL | 7066.0 | 0830-0855/ | 12 | 12 | | UiCW | A1A/ N0N | | | |
| SRAL | 7081.0 | 0955-1010/ | 25 | 12 | | UiPTR | F1B | | 250 | |
| SRAL | 7089.0 | 0800-1016/ | 4 6 | 12 | | UiMUX | PSK2 | 120 | 2600 | |
| SRAL | 7099.5 | 0630-0720 | 6 | 12 | | 9QBT | A1A | | | 5BL |
| SRAL | 7100.0 | 1245-1315 | 17 | 12 | | UiMUX | PSK2 | 120 | 2600 | |
| SRAL | 7117.0 | 1030-1345 | 1 21 | 12 | | UiPTR | F1A/ N0N | | 250 | |
| SRAL | 7119.0 | 1015-1037/ | 1 | 12 | | UiMUX | PSK2 | 120 | 2600 | |
| SRAL | 7120.0 | /0330-0530/ | * | 12 | SOM | R Hargeisa | A3A | | | Days: 1. - 6. |
| SRAL | 7120.0 | /1300-1400/ | * | 12 | SOM | R Hargeisa | A3A | | | Days: 1. - 6. |
| SRAL | 7120.0 | /1455-2005/ | * | 12 | SOM | R Hargeisa | A3A | | | Days: 1. - 6. |
| SRAL | 7122.0 | '0945 | 19 | 12 | | UiPTR | F1B | | 250 | |
| SRAL | 7129.0 | 0715-1130/ | 18 22 | 12 | | UiMUX | PSK2 | 120 | 2600 | |
| SRAL | 7140,0 | 0315-0630 | dly | 12 | ERI | VoBME | A3E | | | |
| SRAL | 7140,0 | 1345-1835/ | dly | 12 | ERI | VoBME | A3E | | | |
| SRAL | 7142.0 | 0650-0940/ | * | 12 | | UiPTR | F1B | | 250 | Days: 18. - 20. |
| SRAL | 7144.0 | 0730-0800 | 24 | 12 | | UiMUX | PSK2 | 120 | 2600 | |
| SRAL | 7159.0 | 1315-1330 | 21 | 12 | IW | UiLINK | PSK | | | ship |
| SRAL | 7160.0 | 0730-0800 | 19 | 12 | RUS | RBL88 | A1A | | | 5BL |
| SRAL | 7162.0 | 1350-1445/ | 10 | 12 | RUS | UiPTR | F1B | | 250 | |
| SRAL | 7164.0 | 1225-1305/ | 27 | 12 | | UiMUX | PSK2 | 120 | 2600 | |
| SRAL | 7168.0 | 0930-1030/ | 13 | 12 | | UiPTR | F1B | | 200 | |
| SRAL | 7175.97 | 1230- | 22 | 12 | | UiPTR | F1B | | 450 | |

| Society | kHz | UTC | DD | MM | ITU | IDENT | MODE | BAUD | SHIFT | REMARKS |
|---------|---------|------------|----------|----|------|-----------------|--------------|------|-------|--|
| | | 1345 | | | | | | | | |
| SRAL | 7176.0 | 1345-1415 | 10 | 12 | | UiPTR | F1B | | 250 | |
| SRAL | 7180.0 | 0315-0630 | dly | 12 | ERI | VoBME | A3E | | | |
| SRAL | 7180.0 | 1345-1835/ | dly | 12 | ERI | VoBME | A3E | | | |
| SRAL | 7193.0 | 0800-1500/ | * | 12 | RUS | RDL | F1B/A N0N | | 200 | Days: 1. - 20. 5F |
| SRAL | 7198.0 | 1030-1312/ | * | 12 | | UiMUX | PSK2 | 120 | 2600 | Days: 5. 10. 19. |
| SRAL | 7200.0 | 0755-0925/ | 10 | 12 | | UiCarr | N0N | | | |
| SRAL | 10 MHz | | | 12 | CYP | UiOTHR | FMCW | | | 25/50Hz, 20 kHz (WebSDR 20d) |
| SRAL | 10 MHz | | | 12 | CHN | UiOTHR | FMCW | | | 40kHz (WebSDR 5d) |
| SRAL | 14 MHz | 0800-0845 | 2 | 12 | CHN | UiOTHR | FMCW | | | 40kHz/12.5Hz |
| SRAL | 14 MHz | 1010-1205/ | 20 | 12 | RUS | Kontainer | FMCW | | | 20kHz/50Hz (WebSDR 7d) |
| SRAL | 14000.0 | 0645-1320 | * | 12 | ISR? | UiCarr | N0N | | | Days: 1. - 4. |
| SRAL | 14221.0 | 0515-0600/ | * | 12 | KGZ | UiPTR | F1B | | 200 | Days: 1. - 4. |
| SRAL | 14295.0 | 0630-1330 | * | 12 | TJK | R Tojikiston | A3E | | | Days: 8. 9. 10. 22. - 31. 3f, chirpy carrier |
| SRAL | 18 MHz | 0845-1300 | * | 12 | CYP | UiOTHR | FMCW | | | 25/50Hz / 20 kHz, days: 1. 6. 17. 23. 25. 31. (WebSDR 22d) |
| SRAL | 18 MHz | 1020-1128/ | 8 | 12 | RUS | Kontainer | FMCW | | | 20kHz/50Hz (WebSDR 3d) |
| SRAL | 21 MHz | 0630-0745 | 29 30 | 12 | CYP | UiOTHR | FMCW | | | 25/50Hz / 20 kHz, (WebSDR 19d) |
| SRAL | 21438.0 | | | | RUS | RCV | A1A | | | |
| SRAL | 24 MHz | | | 12 | | UiOTHR | FMCW | | | (WebSDR 0d) |
| SRAL | 28 MHz | | | 12 | IRN | UiOTHR | FMCW | | | 307 & 870 Hz / 60 kHz. |
| SRAL | 28860.0 | | | 12 | IRN | UiOTHR | FMCW | | | 150 & 313 Hz / 60 kHz. |
| SRAL | 28 MHz | | | 12 | | UiOTHR | FMCW | | | 25/50Hz / 20 kHz (WebSDR 0d) |
| SRAL | 28 MHz | | | 12 | RUS | Taxi disp. | F3E | | | 0 reports |

URE – Spain – EA6AMM (Gaspar)

| SOC | kHz | UTC | DD | M | ITU | IDENT | MODE | BD | SH | DETAILS |
|-----|--------|-------|----|----|------|-------|-------|-----|------|--|
| URE | 3516 | 06:19 | 28 | 12 | | | J3E-U | | | Unid people talking |
| URE | 5351 | 06:50 | 29 | 12 | | | | | 15k | Unknown modem signal. 3 Burst. Video : https://bit.ly/2AjhXCQ |
| URE | 7011.5 | 20:17 | 31 | 12 | | | FSK8 | | | ALE Bursts |
| URE | 7014.5 | 06:47 | 29 | 12 | | | FSK8 | | | ALE Bursts |
| URE | 7035 | 08:46 | 4 | 12 | E/MM | | J3E-U | | | Spanish fishermen |
| URE | 7050 | 07:12 | 10 | 12 | | | J3E-L | | | Agitprop. Russian, Ukrainian and English language. Music |
| URE | 7055 | 06:56 | 10 | 12 | | | J3E-L | | | Agitprop.. Russian, Ukrainian and English language. Music |
| URE | 7070 | 12:16 | 6 | 12 | E/MM | | J3E-U | | | Spanish fishermen. Very strong signals. Also copied on 10/12/2018 at 09:30 UTC. Long chatting about fishing matters. |
| URE | 7070 | 10:03 | 10 | 12 | | | J3U-L | | | Music |
| URE | 7070 | 08:45 | 11 | 12 | | | J3E-U | | | Unid persons talking. Arabic dialect. |
| URE | 7072 | 11:47 | 10 | 12 | | | PSK2A | 120 | 2600 | AT3004D |

| SOC | kHz | UTC | DD | M | ITU | IDENT | MODE | BD | SH | DETAILS |
|-----|---------|-------|----|----|-----|-------|-------|-----|------|--|
| URE | 7081.1 | 9:55 | 25 | 12 | | | F1B | | 250 | |
| URE | 7120 | VT | VD | | SOM | | A3E | | | Radio Hargeisa Somali Land |
| URE | 7140 | VT | VD | 12 | ERI | | A3E | | | Radio Voice of the Broad Massses Eritrea 1 |
| URE | 7147.5 | 13:33 | 29 | 12 | | | | | ≈4k | Unknown signal. Video: https://bit.ly/2EU4IeI |
| URE | 7153.1 | 13:34 | 29 | 12 | | | | | ≈7k | Unknown signal. Video: https://bit.ly/2Vegs1s |
| URE | 7180 | VT | VD | 12 | ERI | | A3E | | | Radio Voice of the Broad Massses Eritrea 2 |
| URE | 10104 | 09:30 | 25 | 15 | | | J3E-U | | | Unid persons talking. |
| URE | 10113.5 | 08:36 | 24 | 12 | | | FSK | 600 | 600 | DPRK FSK 600 |
| URE | 10114.8 | VT | VD | 12 | RUS | | F1B | 100 | 100 | CIS14. Moscow |
| URE | 10120 | 16:30 | 9 | 12 | | | | | 20k | OTH Radar from 10110 to 10130 kHz |
| URE | 10123 | 10:13 | 25 | 12 | | | F1B | | 200 | |
| URE | 10125 | 16:05 | 22 | 12 | | | | | 20K | OTH Radar from 10125 to 10145 kHz |
| URE | 10130 | VT | VD | 12 | RUS | | F1B | 100 | 500 | Unclean. Area of Chita |
| URE | 14240 | 08:16 | 13 | 12 | | | | | 160k | OTH Radar |
| URE | 14308 | 08:16 | 13 | 12 | RUS | | F1B | 75 | 500 | Moscow |
| URE | 18070 | 06:45 | 28 | 12 | | | | | 20k | OTH Radar from 18060 to 18080 kHz |
| URE | 18082.5 | 11:08 | 13 | 12 | | | | | 25k | OTH Radar from 18075 to 18100 kHz |

USKA – Switzerland – HB9CET (Peter)

| SOC | kHz | UTC | DD | MM | ITU | IDENT | MODE | BD | SH (BW) | DETAILS |
|--|--------|--------------|----------|----|-----|-------|-----------|--------|---------|---|
| 80m band informational only! - Amateur co-primary, shared with other also primary allocated services! | | | | | | | | | | |
| USKA | 3527.0 | 2252 | 01 | 12 | | | F1B | 50 | 200 | almost daily |
| USKA | 3525.0 | 2024 | 04 | 12 | | | 2x DQPSK | 14x75 | ~6k1 | LINK 11 CLEW; DSB or ISB Mode |
| USKA | 3532.0 | 2124 | 17 | 12 | | | DQPSK | 14x75 | ~2k7k | LINK 11 CLEW |
| USKA | 3548.0 | 1615 2126 | 01 17 | 12 | RUS | RTL | F1B | 50 | 200 | often |
| USKA | 3550.0 | 1621 | 01 | 12 | | | J7D | 12x120 | 2k7 | BPSK; CIS12 often |
| USKA | 3553.8 | 1618 | 01 | 12 | | | G1D PSK8 | 2400 | 2k4 | STANAG 4285 almost daily Frame format 600bps/long |
| USKA | 3559.0 | 1619 | 01 | 12 | | | DQPSK | 14x75 | 2k7 | LINK 11 ESB Mode |
| USKA | 3563.0 | 2320 | 09 | 12 | | | J7D | 12x120 | 2k7 | BPSK; CIS12 |
| USKA | 3588.0 | 2129 | 17 | 12 | | | J7D | 12x120 | 2k7 | BPSK; CIS12 |
| USKA | 3608.0 | 2250 | 01 | 12 | | | F1B | 50 | 200 | often |
| USKA | 3653.0 | 1535 | 18 | 12 | | | F1B | 50 | 200 | often |
| USKA | 3660.5 | 2038 | 04 | 12 | | | B7D DQPSK | 14x75 | ~6k1 | LINK 11 CLEW; DSB Mode |
| USKA | 3702.0 | 1724 | 01 | 12 | | | F1B | 75 | 200 | |
| USKA | 3732.0 | 2324 | 09 | 12 | | | F1B | 75 | 200 | |
| USKA | 3744.8 | 1633 | 01 | 12 | | | G1D PSK8 | 2400 | 2k7 | MIL 188-110A D2 mod (Hybrid); preamble 4 tones, PSK4 75Bd 450Hz spacing often |
| USKA | 3767.0 | 2134 | 17 | 12 | | | J7D | 12x120 | 2k7 | BPSK; CIS12 |
| USKA | 3790.0 | 1628 | 01 | 12 | | | J7D | 12x120 | 2k7 | BPSK; CIS12 |

| SOC | kHz | UTC | DD | MM | ITU | IDENT | MODE | BD | SH (BW) | DETAILS |
|------|---------|----------------------|----------------|----------|-----|--------|-------------|----------|---------|--|
| USKA | 3792.0 | 1629 1631 2135 | 01 01 17 | 12 | | | F1B | 36 50 | 200 | CIS36-50 often |
| USKA | 3797.0 | 2327 | 09 | 12 | | | F1B | 75 | 250 | often |
| USKA | 7000.0 | 2021 | 04 | 12 | | | J3E-U | | 2k3 | Spanish (Fishery) |
| USKA | 7000.0 | 1704 | 08 | 12 | | | A3E | | | Asian language (weak) |
| USKA | 7003.5 | vt | vd | 12 | | | 304HF1 B | 200 | 100 | Pactor 1; encrypted connect often |
| USKA | 7003.5 | 2203 | 20 | 12 | | | 304HF1 B | 200 | 100 | Pactor 1; calling TSABIT often |
| USKA | 7003.5 | 2206 | 20 | 12 | | | 304HF1 B | 200 | 100 | Pactor 1; calling AOULEF often |
| USKA | 7003.5 | 2211 | 20 | 12 | | | 304HF1 B | 200 | 100 | Pactor 1; calling ZKOUNTA of |
| USKA | 7003.5 | 1352 | 21 | 12 | | | 304HF1 B | 200 | 100 | Pactor 1; calling TIMIMOUNoft |
| USKA | 7003.5 | 1456 | 21 | 12 | | | 304HF1 B | 200 | 100 | Pactor 1; calling BBM often |
| USKA | 7008.0 | 0859 | 19 | 12 | | | F1B | 75 | 250 | almost daily |
| USKA | 7010.0 | 1742 | 12 | 12 | | 920018 | MFSK8 | 125 | 1750 | ALE, MIL 188-141A |
| USKA | 7010.0 | 1743 | 12 | 12 | | 920001 | MFSK8 | 125 | 1750 | ALE, MIL 188-141A |
| USKA | 7014.0 | 1531 | 19 | 12 | | | J7D | 12x120 | 2k7 | BPSK; CIS12 (idling) |
| USKA | 7045.0 | 1756 | 10 | 12 | | 920009 | MFSK8 | 125 | 1750 | ALE, MIL 188-141A |
| USKA | 7045.0 | 1806 | 10 | 12 | | 2006 | MFSK8 | 125 | 1750 | ALE, MIL 188-141A |
| USKA | 7045.0 | 1848 | 10 | 12 | | 2001 | MFSK8 | 125 | 1750 | ALE, MIL 188-141A |
| USKA | 7045.0 | 1932 | 10 | 12 | | 920018 | MFSK8 | 125 | 1750 | ALE, MIL 188-141A |
| USKA | 7045.0 | 2101 | 10 | 12 | | 920001 | MFSK8 | 125 | 1750 | ALE, MIL 188-141A |
| USKA | 7070.0 | 2140 | 04 | 12 | | 288 | MFSK8 | 125 | 1750 | ALE, MIL 188-141A, To 514; often |
| USKA | 7070.0 | 1601 | 06 | 12 | | | J3E-U | | 2k1 | French (no ham content) |
| USKA | 7070.0 | 1048 | 10 | 12 | | | J3E-U | | 2k1 | Spanish; fishery |
| USKA | 7072.0 | 1752 | 14 | 12 | | | J7D | 12x120 | 2k7 | QPSK; CIS12 |
| USKA | 7073.0 | 0919 | 14 | 12 | | | J7D | 12x120 | 2k7 | CIS12 idling (13 carriers only) |
| USKA | 7089.0 | 0954 | 14 | 12 | | | J7D | 12x120 | 2k7 | BPSK; CIS12 |
| USKA | 7116.0 | 0921 | 14 | 12 | | | F1B | 75 | 200 | |
| USKA | 7120.0 | 1613 | 01 | 12 | SOM | | A3E | | | BC; Radio Hargaysa almost daily |
| USKA | 7127.9 | 0724 | 14 | 12 | | | OFDM | | ~3k1 | |
| USKA | 7134.0 | 1639 | 19 | 12 | | ECXPH | MFSK8 | 125 | 1750 | ALE, MIL 188-141A (weak) |
| USKA | 7140.0 | 1609 | 01 | 12 | ERI | VOBM | A3E | | ~ 9k | BC almost daily |
| USKA | 7159.0 | 0917 | 10 | 12 | | | F1B | 75 | 200 | |
| USKA | 7168.0 | 0930 | 13 | 12 | | | F1B | 50 | 200 | |
| USKA | 7169.0 | 0749 | 07 | 12 | | | F1B | 75 | 200 | often |
| USKA | 7180.0 | 1606 | 01 | 12 | ERI | VOBM | A3E | | ~ 9k | BC almost daily |
| USKA | 7193.0 | 0828 0830 | 07 07 | 12 12 | RUS | RDL | F1A F1B | 36+ 50 | 200 | CIS 36-50 almost daily ID + short encrypted msg in CW F1A |
| USKA | 7197.0 | 1841 | 01 | 12 | TUR | 351013 | MFSK8 | 125 | 1750 | ALE, MIL 188-141A |
| USKA | 7197.0 | 1844 | 01 | 12 | TUR | 323018 | MFSK8 | 125 | 1750 | ALE, MIL 188-141A |
| USKA | 7197.0 | 1845 | 01 | 12 | TUR | 303013 | MFSK8 | 125 | 1750 | ALE, MIL 188-141A |
| USKA | 7197.0 | 1845 | 01 | 12 | TUR | 340013 | MFSK8 | 125 | 1750 | ALE, MIL 188-141A |
| USKA | 7197.0 | 1846 | 01 | 12 | TUR | 341013 | MFSK8 | 125 | 1750 | ALE, MIL 188-141A |
| USKA | 7198.0 | 1033 | 10 | 12 | | | J7D | 12x120 | 2k7 | BPSK; CIS12 often |
| USKA | 7200.0 | 1252 | 11 | 12 | | | FMCW | 50 sps | 7k | strong; QRT 1259 |
| USKA | 7200.0 | 1308 | 11 | 12 | | | FMCW | 20 sps | 7k | strong; QRT 1310 |
| USKA | 10130.0 | 1108 | 24 | 12 | | | F1B | 50 | 500 | daily |
| USKA | 14000.0 | 1003 | 02 | 12 | | | N0N | | | Long lasting carrier often |
| USKA | 14348.0 | 0951 | 02 | 12 | | | FMOP | 50 sps | 10k | OTHR; Bursts; BD 5s; BRI 50s |
| USKA | 18160.0 | 1339 | 21 | 12 | | | FMCW | 50 sps | 20k | OTHR (strong) |

Veron – Netherlands – PG1R (Ruud)

| SOC | kHz | UTC | DD | MM | ITU | IDENT | MODE | SHIFT | DETAILS |
|-------|---------|------|----|----|---------|-------|-------|-------|--|
| VERON | 3548,0 | 1537 | 10 | 12 | CIS | UiPTR | F1B | | Revs/Ptr |
| VERON | 3557,0 | 1604 | 04 | 12 | | UiPTR | F1B | | Ptr also 20/12 at 18.23 UTC |
| VERON | 3653,0 | 1510 | 05 | 12 | CIS | UiPTR | F1B | | Revs/Ptr also 10/12 at 15.35 UTC |
| VERON | 3653,0 | 1516 | 05 | 12 | CIS | UiCW | F1A | | XXX followed by F1B Revs/Ptr |
| VERON | 3792,0 | 1512 | 05 | 12 | CIS | UiCW | F1A | | XXX followed by F1B Revs/Ptr |
| VERON | 3792,0 | 1524 | 05 | 12 | RUS | RDL | F1A | | RDL 78408 03500 K |
| VERON | 7012,0 | 1345 | 04 | 12 | | UiPTR | F1B | | Ptr |
| VERON | 7014,0 | 1023 | 07 | 12 | | UiPTR | F1B | | Ptr |
| VERON | 7015,0 | 1001 | 05 | 12 | RUS | RIT | A1A | | RLO de RIT QTC 183 34 5 1257 183 = Radioprognoz 05128 63003 5F |
| VERON | 7015,0 | 1001 | 07 | 12 | RUS | RIT | A1A | | RLO de RIT QTC 116 34 7 1258 116 = Radioprognoz 07128 63003 5F |
| VERON | 7048,5 | 1332 | 30 | 12 | | UiPtr | F1B | 350 | S9; shift changing within 1 minute: 350 > 700 > 175 > 350 |
| VERON | 7050,0 | 1331 | 30 | 12 | RUS/UKR | | J3E-1 | | Russian speech; 2 TX; S5 |
| VERON | 7054,5 | 1328 | 30 | 12 | | UiPtr | F1B | 200 | Printer; S8 |
| VERON | 7055,0 | 1409 | 06 | 12 | RUS/UKR | | J3E-1 | | Russian speech; no calls; S4 |
| VERON | 7055,0 | 1123 | 15 | 12 | RUS/UKR | | J3E-1 | | Chaos; comments/music; S8 |
| VERON | 7193,0 | 1040 | 04 | 12 | CIS | UiPTR | F1B | | Revs/Ptr |
| VERON | 7193,0 | 1409 | 04 | 12 | RUS | RDL | F1A | | RDL 08024 66893 K |
| VERON | 7193,0 | 1416 | 04 | 12 | RUS | RDL | F1A | | RDL 31974 63100 K |
| VERON | 7193,0 | 1413 | 06 | 12 | RUS | RDL | F1B | 200 | Printer; S6 |
| VERON | 7193,0 | 1039 | 07 | 12 | RUS | RDL | F1A | | RDL 88956 12039 K |
| VERON | 10130,0 | 1007 | 07 | 12 | CIS | UiPTR | F1B | | Revs also 28/12 at 10.16 UTC |
| VERON | 14091,4 | 1254 | 08 | 12 | | UiPtr | F1B | 350 | Printer; S5 |
| VERON | 14281,0 | 1014 | 05 | 12 | CIS | UiVFT | J3E-u | | 729 415 6 11744 5F Russian Language |
| VERON | 14308,0 | 0842 | 13 | 12 | | UiPtr | F1B | 500 | |

The monitoring team of IARU Region 1

credits:

Wavecom Elektronik – Buelach – Switzerland

German BNetzA Konstanz

All our friends and contributors worldwide!

Many thanks for your interest!

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