



Monitoring System

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The monthly newsletter for Region 1

July 2015

The 29 members of the IARUMS Region 1 Monitoring Team:



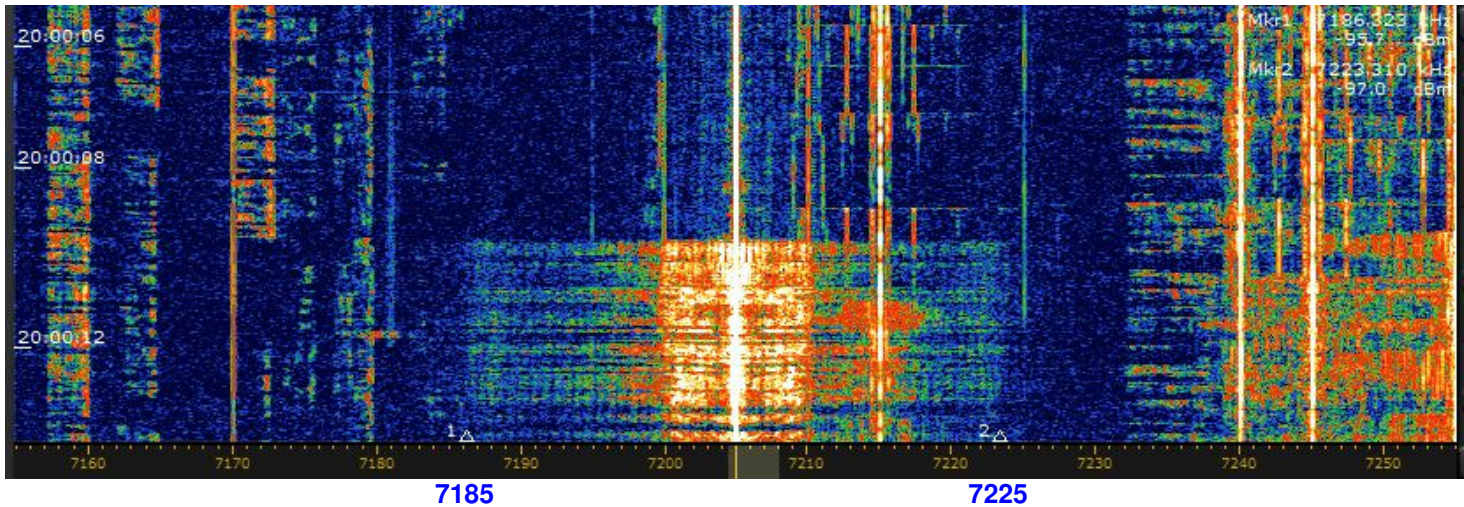
Acknowledgements

ARAT: 3V8CB – Ahmed ++ ARI: DH7SA – Salvatore ++ ARSK: 5Z4NU - Ted ++ ASTRA: DL1BDF – Mustapha ++ DARC: DK2OM – Wolf ++ ERASD: SU1SA – Sayed ++ HRS: 9A5DGZ – Gianluca ++ IARC: 4Z1AB – Amos ++ IRTS: EI9GSB - Lisa ++ 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: M0VRR - Vaughan ++ SARL: ZS4GJA - Gideon ++ 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) ++ 9K2RR – Faisal (EC-IARU-R1 ++ PTTs: BAKOM (Swiss), BNetzA Konstanz (Germany) ++ OFCOM (UK) ++ Dutch AT ++ SK6AW – DX-Cluster ++ YO9RIJ – Petrica

Part 1: News and Infos

1. Broadcast problems

RFI (Radio France International) on 7205 kHz caused splatters down to 7185 kHz and up to 7225 kHz. Not solved until the end of July. Screenshot by DK2OM showing the RFI splatters at 2000 UTC and 10 sec on July 26th. RFI is transmitting from 2000 – 2200 UTC daily on 7205.



2. Sound of Hope on 18080 kHz

Sound of Hope (Taiwanese BC) and Chinese BC jammer again on 18080 kHz every morning.

Soundfile: <http://www.iarums-r1.org/iarums/sound/18080-soh-06082015.wav>

3. Fishery traffic on our bands

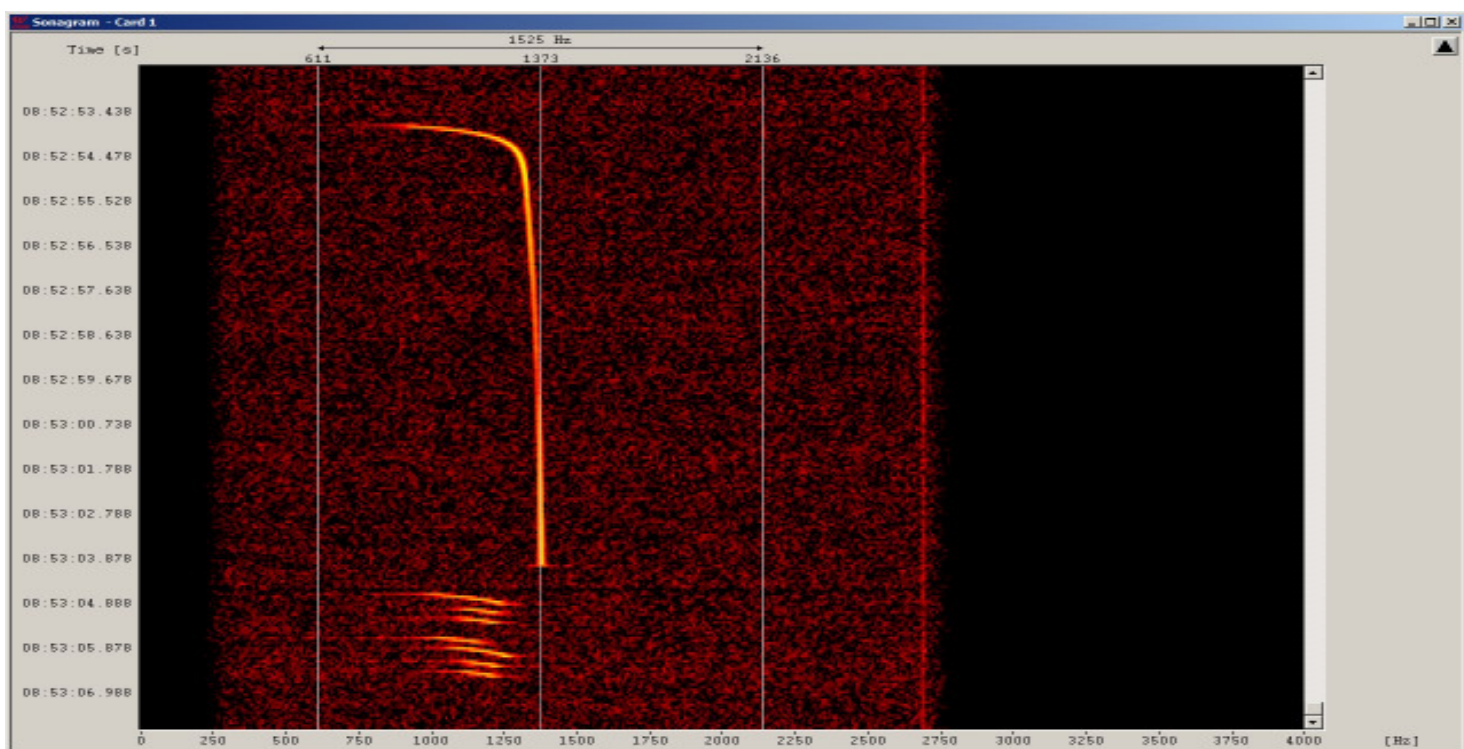
Spanish fishery abused 3500, 3520, 3540, 3550, 3590, 3744, 7000, 14000, 21122 kHz on USB or scrambler CRY2001 and 28335 kHz on AM and FM. Only names, no callsigns as usual. We asked them for callsigns especially on our exclusive bands in earlier times. They answered: “We need no callsigns!” Other reactions were very rude and obscene. I do not want to mention the details here. They do not respect any amateur traffic on exclusive amateur bands since more than 20 years. They do not respect any other legal traffic like MIL-traffic on shared bands. Other fishery traffic comes from UK, Netherlands, Portugal, France, Brazil and Italy.

4. Driftnetbuoys on 28 MHz - the endless story

Large parts of our oceans seem to be infested with illegal driftnet buoy emissions. **Please observe our “collection”:**

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

Screenshot: DK2OM with W-Code – showing a driftnet buoy with a rising carrier followed by the CW-ident “DL” QRG: 28261.373 (carrier) on July 29th at 0852 UTC – location Adriatic Sea - Many buoys are produced in Far-East. Driftnets are not allowed in the EU. The transmissions on 28 MHz are illegal!



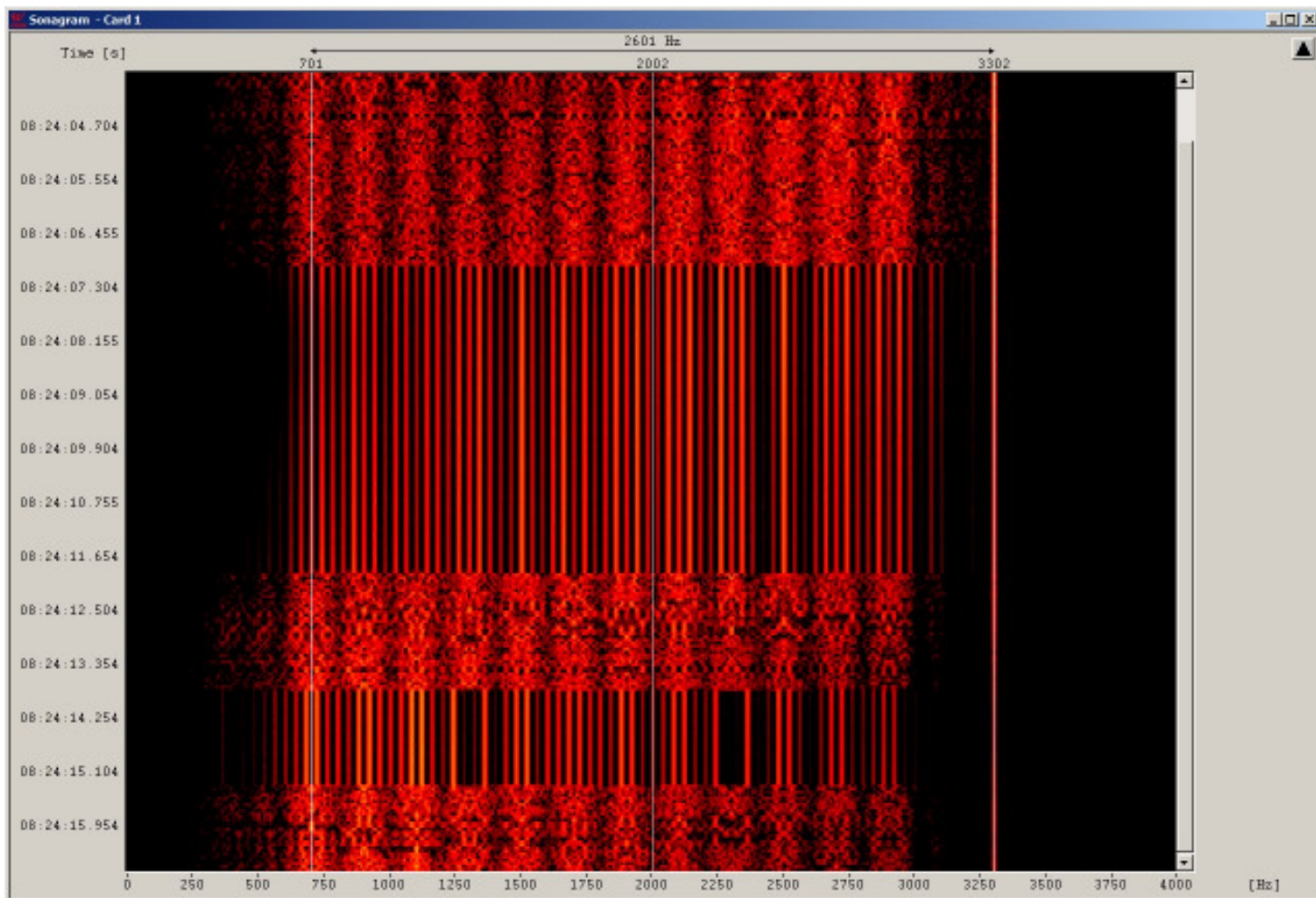
5. Brazilian pirates again on 21000

We found Brazilian pirates on 21000 kHz on USB often in the evenings. The voice traffic (fishery traffic) was between Rio de Janeiro and North Brazil.

6. The Russian MIL-system AT3004D (aka CIS-12) on 14026 kHz

The Russian MIL system AT3004D is a very common system on our bands. Traffic with 12 x 120 Bd BPSK or 12 x 120 Bd QPSK (= AT3104D) and a pilot tone on 3300 Hz AF.

Screenshot: DK2OM with W-Code showing the system on 14026 kHz in traffic and submode idle condition – July 29th at 0820 UTC – location: Moscow



7. 7163 – SZRU – Ukraine Foreign Intelligence Service

On 7163 kHz a female voice spelled encrypted messages on A3E on July 23rd at 0914 UTC. Source: SZRU – Ukraine Foreign Intelligence Service in Rivne / Ukraine.

8. Russian clusterbeacons after QSY now here

7508.7 = D --- 7508.9 = S --- 7509.0 = C --- 7509.2 = F

9. Silent Key - HB9COH

On July 20th Christian Kesselring, HB9COH passed away after a long and serious illness in the age of 61 years. He was the founder of WAVECOM Elektronik AG, the worldwide well renowned company for radio monitoring decoders and analyzers. Christian always supported ham-radio projects generously, particularly the IARU monitoring system with professional decoders and analyzing tools.

So the IARU Monitoring System community has lost a friend and great supporter. We are grateful for all his assistance.

May he rest in peace.

Peter A. Jost - HB9CET - IARU Region 1 Monitoring System Vice Co-ordinator - USKA Bandwacht Leader

10. 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://iaru-r3.org/iaru-region-3-monitoring-system-newsletter/>

Intruderlogger Region 1

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

ITU-Monitoring Reports:

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

Part 2: Detailed reports of the national Co-ordinators

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

ARSK MONITORING OVERVIEW FOR JULY 2015

Most listening this month took place at Kilifi on the coast, but very little was observed. The broadcast station at Hargeisha, Somaliland, on 7120 kHz was heard daily, and broadcast station on 7175 was heard in the evenings from 29th July with an unmodulated intermittent carrier in the daytime. Whether this is the VOBM in Eritrea was not determined, although it appears likely.

E/H.M. Alleyne, 5Z4NU

ARSK National IARUMS Co-ordinator

ARSK – Kenya – 5Z4NU (Ted)

| H'd by | kHz | UTC | dd | mm | ITU | IDENT | MODE | Details |
|--------|--------|-----|-----|----|------|---------|------|----------------------------------------------------|
| ARSK | 7000.0 | var | dly | 7 | EA | UiPHONE | J3Eu | Unidentified, appears to be east or central Africa |
| ARSK | 7075.0 | v | dly | 7 | ? | UiPHONE | J3Eu | French, English, phonetics. |
| ARSK | 7175.0 | vt | * | 10 | ERI? | VOBM? | A3E | Broadcast. *29,30,31. |

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

DG0JBJ (Mario) observed **52** OTH radars on 20 m, **11** OTH radars on 15 m and **20** OTH radars on 10 m in July 2015. A Chinese OTH radar often appeared on the 80 m-band.

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 | 1939 | 15 | 07 | RUS | | USB LSB | | | 14 tones – hyperbolic radio navigation system – BRAS-3/RS-10 – Kaliningrad – no carrier - daily, all day |
| DK2OM | 1852,0 | 1942 | 30 | 07 | I | IPP | USB | | | Palermo Radio, weather reports |
| DK2OM | 1855,0 | 1942 | 30 | 07 | I | IQP | USB | | | San Benedetto Radio, weather reports |
| DK2OM | 1876,0 | 1942 | 30 | 07 | I | IQN | USB | | | Lampedusa Radio, weather reports |
| DK2OM | 1880,0 | --- | -- | 07 | BEL | | PSK8 | 2400 | 2400 | Stanag4285 – 600 bps long – area of Brugge – Belgium - daily |
| DK2OM | 1888,0 | 1943 | 30 | 07 | I | IPD | USB | | | Civitavecchia Radio, weather reports |
| DK2OM | 1896,5 | --- | -- | 07 | D | | PSK8 | 2400 | 2400 | Stanag4285 – 600 bps long – German Navy |
| DK2OM | 1925,0 | 1943 | 30 | 07 | I | IPL | USB | | | Livorno Radio, weather reports – daily, vt |
| DK2OM | 3500,0 | vt | dly | 07 | 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 | 2120 | 04 | 07 | E | | USB | | | Spanish fishery - also: 28.07.2015 at 2045 utc |
| DK2OM | 3502,9 | 1830 | 01 | 07 | RUS | | PSK8B | 35.6 | 2780 | OFDM60 - Moscow |
| DK2OM | 3503,5 | vt | dly | 07 | G | no ITU | FSK8 | 125 | 1750 | ALE – “XSS” “XPU” “XJR” – British MIL Tascomm – vt, daily - legal! |
| DK2OM | 3520,0 | 2020 | 01 | 07 | E | | USB | | | Spanish fishery with voice scrambler CRY 2001 |
| DK2OM | 3531,0 | 2034 | 01 | 07 | RUS | REA4 | N0N | | | unclean carrier - RUS airforce Moscow, ident: 1940 utc - daily |
| DK2OM | 3532,0 | 1948 | 08 | 07 | F | | PSK4 | 75 | 2400 | LINK11-CLEW on both sidebands (5800 Hz wide) – area of Brest – legal! |
| DK2OM | 3534,5 | vt | dly | 07 | HOL | | FSK8 | 125 | 1750 | ALE, “A03” “A15” “A10” |
| DK2OM | 3540,0 | 2112 | 27 | 07 | E | | USB | | | Spanish fishery - daily |
| DK2OM | 3547,0 | 1534 | 19 | 07 | CHN | | FMCW | | 46k | Chinese OTH radar – 43 sps – 3547 – 3593 kHz |
| DK2OM | 3547,3 | 1856 | 26 | 07 | ISR | | PSK4 PSK8 | 75 2400 | 2400 2400 | hybrid modem – ISR Navy – PSK4 parallel and PSK8 serial – legal operation – just for info |
| DK2OM | 3550,0 | vt | vd | 07 | ALG | no ITU | FSK8 | 125 | 1750 | ALE, “IU50” “IU52” “FN50” |
| DK2OM | 3553,8 | ady | dly | 07 | TUR | | PSK8 | 2400 | 2400 | Stanag4285 – 600 bps long -TUR MIL - Ankara – daily, all day - legal operation |
| DK2OM | 3567,0 | vt | dly | 07 | CHN ? | no ITU | FSK8 | 125 | 1750 | ALE, “103” “106” |
| DK2OM | 3576,0 | 1549 | 12 | 07 | CHN | | FMCW | | 43k | Chinese OTH radar – 43 sps – 3576 – 3619 kHz |
| DK2OM | 3576,4 | ady | dly | 07 | I | IZ3DVW | A1A | | | uncoordinated beacon |
| DK2OM | 3585,0 | 2052 | 25 | 07 | TWN | HLL | F1C | | | 120 rpm, IOC 576, WX-fax - daily - legal! |
| DK2OM | 3586,0 | 1956 | 08 | 07 | | | F1B | 75 | 200 | |
| DK2OM | 3586,0 | 1938 | 20 | 07 | G | | PSK2A | 40 | 40 | encrypted – every evening Great Britain – purpose unknown |
| DK2OM | 3587,0 | vt | vd | 07 | E | no ITU | FSK8 | 125 | 1750 | ALE, “TVV” “TXX” - Spanish Guardia Civil |
| DK2OM | 3590,0 | vt | dly | 07 | PAK | no ITU | FSK8 | 125 | 1750 | ALE, “KW” “KHAIBAR” – Pakistan navy |
| DK2OM | 3590,0 | 2110 | 03 | 07 | E | | USB | | | Spanish fishery – also with scrambler CRY 2001 – every evening |
| DK2OM | 3590,4 | 2105 | 14 | 07 | AF | „V“ | A1A | | | unid beacon”V” – endless slip – Horn of Africa |
| DK2OM | 3591,6 | 2105 | 14 | 07 | AF | „V“ | A1A | | | unid beacon”V” – endless slip – Horn of Africa |
| DK2OM | 3595,0 | vt | dly | 07 | D | | FSK8 | 125 | 1750 | ALE – German customs |
| DK2OM | 3596,0 | vt | dly | 07 | D, S, HRV | | FSK8 | 125 | 1750 | ALE, “DK3CW” “SA6CBK” “9A0PZ” – just for info! |
| DK2OM | 3617,0 | vt | dly | 07 | HRV | 9A5EX | FSK8 | 125 | 1750 | ALE, “9A5EX” – HAM-ALE - just for info |
| DK2OM | 3620,0 | 1534 | 19 | 07 | CHN | | FMCW | | 46k | Chinese OTH radar – 43 sps – 3620 – 3666 kHz |
| DK2OM | 3622,5 | 2014 | 15 | 07 | J | JMH | F1C | | | Tokyo Meteo – 120 rpm – IOC576 – daily, legal!!! |
| DK2OM | 3638,0 | 1647 | 18 | 07 | CHN | | FMCW | | 50k | Chinese OTH radar – 43 sps 3638 – 3688 kHz |
| DK2OM | 3640,0 | vt | vd | 07 | G | | FSK8 | 125 | 1750 | ALE, “XSS” - British MIL Tascomm – just for info! |
| DK2OM | 3640,0 | 1651 | 17 | 07 | CHN | | FMCW | | 46k | Chinese OTH radar – 43 sps 3640 – 3686 kHz |
| DK2OM | 3642,0 | ady | dly | 07 | CHN | | A1A | | | endless slip – DKG6 de 3A7D Chinese military – daily, all day |
| DK2OM | 3649,0 | vt | vd | 07 | ALG | no ITU | FSK8 | 125 | 1750 | ALE, “BI20” PA20” |
| DK2OM | 3662,0 | vt | vd | 07 | FEa | | A1A | | | endless slip – RA5J de BP2S |
| DK2OM | 3679,0 | 1708 | 22 | 07 | CHN | | FMCW | | 39k | Chinese OTH radar – 43 sps – 3679 – 3718 kHz |
| DK2OM | 3712,0 | 1005 | 14 | 07 | CHN | | FMCW | | 40k | Chinese OTH radar – 43 sps – |

| DK2OM | kHz | UTC | DD | MM | ITU | IDENT | MODE | BD | SH/SP | DETAILS |
|-------|---------------|------------|------------|-----------|----------|--------|------------|------|-------|-------------------------------------------------------------------------------|
| | | | | | | | | | | 3712 – 3752 kHz |
| DK2OM | 3719,0 | 1456 | 24 | 07 | CHN | | FMCW | | 44k | Chinese OTH radar – 43 sps – 3719 – 3763 kHz |
| DK2OM | 3720,0 | vt | dly | 07 | S | | FSK8 | 125 | 1750 | ALE, “YU” “YT” “YV” “DZ” – Swedish MIL |
| DK2OM | 3751,5 | vt | dly | 07 | POL | no ITU | FSK8 | 125 | 1750 | ALE, “IZ3” “MI3” |
| DK2OM | 3756,0 | 1941 | 08 | 07 | RUS | | A3E | | | RUS MIL – channel marker – Tuapse – East Black Sea – night QRG |
| DK2OM | 3761,5 | vt | vd | 07 | POL | no ITU | FSK8 | 125 | 1750 | ALE, “NI9” “PL7” “AB2” – Polish MIL |
| DK2OM | 3777,0 | 1751 | 11 | 07 | FEa | | A1A | | | “RIS9 de M8JF” – endless slip – recvd via JA |
| DK2OM | 3791,0 | vt | vd | 07 | D | DK0ESD | FSK8 | 125 | 1750 | ALE, “DK0ESD” – daily just for info! |
| DK2OM | 6998,5 | 0930 | 22 | 07 | POL | | USB | | | woman in POL voice splattering up Polish MIL |
| DK2OM | 6999,0 | vt | dly | 07 | | | FSK8 | 125 | 1750 | ALE, “537” “725” – signal center = 7000.625 kHz |
| DK2OM | 7000,0 | vt | dly | 07 | ? | no ITU | FSK8 | 125 | 1750 | ALE, “210” “20989” “2205” “203” |
| DK2OM | 7000,0 | 1421 | 05 | 07 | INS | | USB LSB | | | Indonesian pirates – daily – audible in Europe in the evenings |
| DK2OM | 7000,0 | 1740 | 15 | 07 | F? | | USB | | | pirates in French voice |
| DK2OM | 7000,0 | 0822 | 05 | 07 | E | | USB | | | Spanish fishery – also 24.07.2015 at 2025 utc |
| DK2OM | 7000,0 | 0616 | 26 | 07 | F | | USB | | | French fishery – Bay of Biscay |
| DK2OM | 7001,5 | vt | vd | 07 | ALG | | PSK4A | 62.5 | 1750 | Clover 2000 – 8 x 62.5 Bd – Algeria – daily, vt |
| DK2OM | 6998.5 | 1024 | 22 | 07 | POL | | FSK8 | 125 | 1750 | ALE, “ZI3” “OL1” “OD6” “SZ4” - until 7001.000 kHz – Polish MIL |
| DK2OM | 7005,0 | 1738 | 07 | 07 | SNG | | LSB | | | pirates from Singapur |
| DK2OM | 7005,0 | 1948 | 15 | 07 | FEa | | FMCW | | 32k | Codan like ocean surface radar 2.6 sps – 7005 – 7037 kHz |
| DK2OM | 7005,0 | 1825 | 23 | 07 | I | | LSB | | | Italian pirates |
| DK2OM | 7015,0 | 1423 | 05 | 07 | INS | | USB LSB | | | Indonesian pirates |
| DK2OM | 7018,0 | --- | -- | 07 | RUS | REA4 | F1B | 100 | 1000 | mostly idling – Russian airforce Moscow – ident at full hour + 40 min. |
| DK2OM | 7020,0 | 1424 | 05 | 07 | INS | | USB LSB | | | Indonesian pirates |
| DK2OM | 7023,0 | 1408 | 05 | 07 | FEa | | FMCW | | 32k | Codan like ocean surface radar 2.6 sps – 7023 – 7055 kHz |
| DK2OM | 7030,0 | 1642 | 21 | 07 | RUS | | PSK2A | 120 | 2600 | AT3004D – Far East-Russia |
| DK2OM | 7035,0 | 1426 | 05 | 07 | INS | | USB LSB | | | Indonesian pirates |
| DK2OM | 7035,0 | 1846 | 13 | 07 | FEa | | FMCW | | 32k | Codan like ocean surface radar 2.6 sps – 7035 – 7067 kHz |
| DK2OM | 7039,2 | ---- | -- | -- | RUS | F | A1A | | | Cluster beacon - Vladivostok RUS Navy - “RJS” – now on 7509.2 kHz |
| DK2OM | 7039,3 | 1628 | 09 | 07 | RUS | K | A1A | | | Cluster beacon - Petropavlovsk Kamchatskiy - RUS Navy - Pacific fleet - “RCC” |
| DK2OM | 7039,4 | 1628 | 09 | 07 | RUS | M | A1A | | | Cluster beacon – Magadan RUS Navy – „RTS“ |
| DK2OM | 7040,0 | vt | dly | 07 | F | F6BAZ | FSK8 | 125 | 1750 | ALE, “F6BAZ” – just for info |
| DK2OM | 7040,0 | ady | dly | 07 | I | | A1A | | | IZ3DVW – uncoordinated and unwanted beacon |
| DK2OM | 7040,0 | 1427 | 05 | 07 | INS | | USB LSB | | | Indonesian pirates |
| DK2OM | 7040,0 | 1713 | 22 | 07 | FEa | | FMCW | | 32k | Codan like ocean surface radar 2.6 sps – 7040 – 7072 kHz |
| DK2OM | 7040,5 | vt | dly | 07 | HRV | | FSK8 | 125 | 1750 | ALE, “9A5EX” “9A0ALE” – just for info |
| DK2OM | 7045,0 | 1429 | 05 | 07 | INS | | LSB | | | Indonesian pirates |

| DK2OM | kHz | UTC | DD | MM | ITU | IDENT | MODE | BD | SH/SP | DETAILS |
|-------|---------|------|-----|----|-----------------|--------------------------|--------|------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DK2OM | 7047,37 | vt | vd | 07 | D | | FSK8 | 125 | 1750 | ALE, "DL0NOT" – just for info! |
| DK2OM | 7049,5 | 0941 | 10 | 07 | HRV G F | 9A0ALE MIDFO F6BAZ | FSK8 | 1250 | 1750 | Amateur ALE, just for info! daily – various times |
| DK2OM | 7055,5 | vt | vd | 07 | MEa | no ITU | FSK8 | 125 | 1750 | ALE, "111" "132" "133" - Kaukasus |
| DK2OM | 7059,0 | 1650 | 18 | 07 | FEa | | FMCW | | 32k | Codan like ocean surface radar 2.6 sps – 7059 – 7091 kHz |
| DK2OM | 7070,0 | vt | vd | 07 | GEO | no ITU | FSK8 | 125 | 1750 | ALE, "MV" "244" "686" "334" "204" "571" – daily active |
| DK2OM | 7071,0 | 1837 | 21 | 07 | FEa | | FMCW | | 32k | Codan like ocean surface radar 2.6 sps – 7071 – 7103 kHz |
| DK2OM | 7074,0 | 2048 | 23 | 07 | | | ? | | 16k | broadband signal |
| DK2OM | 7088,8 | --- | --- | 07 | S | SL0FRO | A1A | | | 7088.830 - cw-trainee, Sweden – kHz – SLOFRO - just for info! |
| DK2OM | 7089,8 | 0040 | 24 | 07 | TUR | | PSK8 | 2400 | 2400 | Link11 - SLEW – aircraft – west of Cyprus |
| DK2OM | 7090,5 | 2300 | 22 | 07 | RUS | | PSK2A | 120 | 2600 | AT3004D – ship – area of Sevastopol |
| DK2OM | 7092,0 | vt | vd | 07 | | | FSK8 | 125 | 1750 | ALE, "3014" |
| DK2OM | 7099,5 | vt | dly | 07 | HRV | 9A0ZG | FSK8 | 125 | 1750 | ALE, "9A0ZG" "9A5EX1P" "9A0OS" – daily - just for info! |
| DK2OM | 7100,0 | 1413 | 05 | 07 | INS | | USB | | | Indonesian pirates |
| DK2OM | 7102,0 | vt | dly | 07 | HRV SUI D | 9A0ALE | FSK8 | 125 | 1750 | ALE, "9A0ALE" "9A2KS" "HB9MHB" "9A0ZG" "9A4OS" "DK0ESD" – just for info! |
| DK2OM | 7110,0 | vt | dly | 07 | HRV | 9A0ALE | FSK8 | 125 | 1750 | ALE, "9A0ALE" – just for info |
| DK2OM | 7110,0 | vt | dly | 07 | | | FSK8 | 125 | 1750 | ALE, "1101" "1112" |
| DK2OM | 7120,0 | 1432 | 05 | 07 | SOM | | A3E | | | Radio Hargaysa – Somalia – daily – even audible in Australia and Japan |
| DK2OM | 7121,0 | 1655 | 18 | 07 | CHN | | PSK2 | 60 | 2450 | PRC 30 tone modem – LSB mode – LSB QRG - pilottone 450 Hz - daily - China |
| DK2OM | 7122,0 | 1502 | 24 | 07 | FEa | V | A1A | | | endless slip "V" |
| DK2OM | 7137,0 | vt | dly | 07 | 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 | 7162,0 | 1915 | 15 | 07 | FEa | | FMCW | | 32k | Codan like ocean surface radar 2.6 sps – 7162 – 7194 kHz |
| DK2OM | 7163,0 | 0914 | 23 | 07 | UKR | | A3E | | | encrypted MSGs - Rivne |
| DK2OM | 7183,0 | vt | dly | 07 | SUI | | FSK8 | 125 | 1750 | ALE, "HB9MHB" – just for info! |
| DK2OM | 7185,5 | vt | dly | 07 | D HRV | | FSK8 | 125 | 1750 | ALE, "9A5EX" "DK0ESD" just for info - daily |
| DK2OM | 7197,0 | vt | dly | 07 | TUR | no ITU | FSK8 | 125 | 1750 | ALE, "8241" "206102" "8151" "3021" "3761" "8021" "8141" "3061" "3241" "8411" – Turkish organisations and Turkish Civil Defense - source: DL8AAM – daily, various times |
| DK2OM | 7200,0 | 1720 | 02 | 07 | IRN | | A3E/BC | | 9k | IRIB Tehran – 1720 – 1820 utc |
| DK2OM | 7200,0 | 1010 | 14 | 07 | BRM | | A3E/BC | | | Myanmar Radio |
| DK2OM | 7205,0 | 2020 | 21 | 07 | F | RFI | A3E/BC | | 38k | Radio France International splattering 7185 – 7225 kHz – 2000 – 2200 utc |
| DK2OM | 10100,8 | ady | dly | 07 | D | | F1B | 50 | 450 | Baudot - German Weatherservice – legal! |
| DK2OM | 10108,0 | 1250 | 26 | 07 | RUS | | F1B | 50 | 200 | CIS-36-50 - Moscow |
| DK2OM | 10110,0 | vt | dly | 07 | SNG | no ITU | FSK8 | 125 | 1750 | ALE, "CN6" "68" – Singapore Navy - Changi Naval Base |
| DK2OM | 10113,0 | vt | vd | 07 | TUN | no ITU | FSK8 | 125 | 1750 | ALE, "TUD" "STAT5" "STAT154" |
| DK2OM | 10114,0 | vt | dly | 07 | | no ITU | FSK8 | 125 | 1750 | ALE, "BSF" "ZEN" |

| DK2OM | kHz | UTC | DD | MM | ITU | IDENT | MODE | BD | SH/SP | DETAILS |
|-------|---------|------|-----|----|-----------------------|--------|--------|------|-----------------------|------------------------------------------------------------------------------------------------------|
| | | | | | | | | | | “CM2OR2” |
| DK2OM | 10114,8 | 0708 | 08 | 07 | RUS | | F1B | 100 | 1000 | CIS14 – Moscow - daily |
| DK2OM | 10115,0 | vt | vd | 07 | | no ITU | FSK8 | 125 | 1750 | ALE, “2001” “2002” |
| DK2OM | 10116,5 | vt | vd | 07 | AFS | | F7D | 54.3 | 2120 | MHF50 – 33 tones - South African navy |
| DK2OM | 10120,0 | vt | dly | 07 | | no ITU | FSK8 | 125 | 1750 | ALE, “9066” “9067” “8001” “2001” |
| DK2OM | 10120,0 | 1935 | 10 | 07 | RUS | | PSK2A | 120 | 2600 | AT3004D – Moscow – also 17.06.2016 at 0918 utc |
| DK2OM | 10123,0 | vt | dly | 07 | ALG | no ITU | FSK8 | 125 | 1750 | ALE, “CM3” “COF” “BSF” “CM2” “ESA” |
| DK2OM | 10127,0 | 1930 | 07 | 07 | AUS | | FMCW | | 10k | Australian OTH burst radar JORN – 20 sps and 23 sps |
| DK2OM | 10129,0 | vt | dly | 07 | ALG | no ITU | FSK8 | 125 | 1750 | ALE, “CM1” “CTF” “772” |
| DK2OM | 10130,0 | vt | dly | 07 | MRC | | FSK8 | 125 | 1750 | Thales 3000 – West Sahara – daily - vt |
| DK2OM | 10130,0 | vt | vd | 07 | Af | no ITU | FSK8 | 125 | 1750 | ALE, – West Africa |
| DK2OM | 10136,0 | vt | dly | 07 | ALG | no ITU | FSK8 | 125 | 1750 | ALE, “CM3” “BLD” “CNC” “TF2” |
| DK2OM | 10136,0 | ady | dly | 07 | RUS | | F1B | 50 | 200 | Chita – all day |
| DK2OM | 10140,0 | vt | vd | 07 | CHN ? | | FSK8 | 125 | 1750 | ALE, “205” “201” “LT” |
| DK2OM | 10144,0 | ady | dly | 07 | D | DK0WCY | A1A | | | 10143.986 kHz - DK0WCY – German aurora beacon – just for info! |
| DK2OM | 10145,5 | vt | dly | 07 | HRV S / D F / G | 9A5EX | FSK8 | 125 | 1750 | ALE, “9A5EX” “SM5VRH” “DK0ESD” “F6BAZ” “MIDFO”- just for info - daily |
| DK2OM | 10150,0 | 1820 | 03 | 07 | CYP | | FMCW | | 20k | OTH radar Cyprus |
| DK2OM | 13820,0 | 1545 | 07 | 07 | EGY | | A3E/BC | | | BC from Kairo – splattering up to 14129 |
| DK2OM | 14000,0 | 2110 | 12 | 07 | E | | USB | | | Spanish fishery – also: 29.07.2015 at 0730 utc |
| DK2OM | 14000,0 | 1301 | 22 | 07 | RUS | | FMCW | | 13k | OTH radar Contayner – 50 sps – Nizhny Novgorod |
| DK2OM | 14000,0 | 1225 | 17 | 07 | RUS | | FMCW | | 13k main signal | OTH radar Contayner - 50 sps – Nizhny Novgorod on 13892 kHz with spurious from 13640 until 14330 kHz |
| DK2OM | 14000,3 | 1030 | 07 | 07 | I | IK1HGI | A1A | | | beacon IK1HGI – 14000.314 kHz – just for info! |
| DK2OM | 14003,0 | 0925 | 10 | 07 | RUS | | FMCW | | 13k | OTH radar Contayner - 50 sps – Nizhny Novgorod – long lasting |
| DK2OM | 14008,0 | 0640 | 23 | 07 | RUS | | F1B | 50 | 250 | CIS-50-250 - Moscow |
| DK2OM | 14011,0 | 1250 | 28 | 07 | RUS | | A1A | | | encrypted - Samara |
| DK2OM | 14026,0 | 1422 | 18 | 07 | RUS | | PSK2A | 120 | 2600 | AT3004D – traffic and submode idle - Moscow – also 27.07.2015 at 0929 utc |
| DK2OM | 14066,0 | 1039 | 31 | 07 | RUS | | PSK2A | 120 | 2600 | AT3004D - Novosibirsk |
| DK2OM | 14086,0 | 1413 | 28 | 07 | RUS | | PSK2 | 120 | 2600 | AT3004D – submode idle - Moscow |
| DK2OM | 14091,0 | 0957 | 25 | 07 | RUS | | FMCW | | 13k | OTH radar Contayner - 50 sps Nizhny Novgorod |
| DK2OM | 14097,0 | 1048 | 21 | 07 | RUS | | FMCW | | 13k | OTH radar Contayner - 50 sps – Nizhny Novgorod – splattering +/- 360 kHz |
| DK2OM | 14100,0 | 0800 | 29 | 07 | ALG | no ITU | FSK8 | 125 | 1750 | ALE, “6206” – “6204” - “6202” “6207” “6217” “MTL” “IJI” – Mauritanian border – daily, all day |
| DK2OM | 14100,0 | 0952 | 20 | 07 | RUS | | FMCW | | 13k | OTH radar Contayner - 50 sps Nizhny Novgorod |
| DK2OM | 14101,0 | 0915 | 11 | 07 | RUS | | FMCW | | 13k | OTH radar Contayner - 50 sps Nizhny Novgorod |
| DK2OM | 14105,0 | --- | -- | 07 | F | | FMCW | | 20k | French burst radar, 6 sps, similar Codar sounding, South France |
| DK2OM | 14109,0 | 2020 | 03 | 07 | RUS | | FMCW | | 9k | OTH radar Contayner - 50 sps – Nizhny Novgorod |

| DK2OM | kHz | UTC | DD | MM | ITU | IDENT | MODE | BD | SH/SP | DETAILS |
|-------|----------------|-------------|-------------|-----------|-----------------|--------|------------|-------|-------|---------------------------------------------------------------------------------------------------------------------------------------------|
| DK2OM | 14109,0 | vt | vd | 07 | POR | HAM | FSK8 | 125 | 1750 | ALE, "CT2IXQ" "DK0ESD" "HB9MHB" – just for info! |
| DK2OM | 14109,0 | vt | dly | 07 | CAN | | FSK8 | 125 | 1750 | ALE, "VE3GDZ" – just for info! |
| DK2OM | 14109,0 | vt | dly | 07 | RUS | RV3APM | FSK8 | 120 | 1750 | ALE, "RV3APM" – just for info! |
| DK2OM | 14114,0 | 0842 | 03 | 07 | RUS | | FMCW | | 13k | OTH radar Contayner - 50 sps – Nizhny Novgorod |
| DK2OM | 14116,0 | 1437 | 10 | 07 | RUS | | F1B | 75 | 250 | CIS-75-250 – Moscow |
| DK2OM | 14116,0 | 0818 | 19 | 07 | RUS | | F1B | 100 | 250 | idling - Moscow |
| DK2OM | 14116,8 | 0745 | 31 | 07 | CHN | | PSK4B | 44.44 | 2400 | 39 tone modem – China – pilottone at 450 Hz – USB mode |
| DK2OM | 14118,0 | 0834 | 15 | 07 | RUS | | PSK2A | 120 | 2600 | AT3004D – Moscow – also: 31.07.2015 at 1041 utc |
| DK2OM | 14131,8 | 2135 | 23 | 07 | EGY | | PSK8A | 2400 | 2400 | Cairo |
| DK2OM | 14140,0 | 0917 | 23 | 07 | RUS | | FMCW | | 13k | OTH radar Contayner - 50 sps - Nizhny Novgorod |
| DK2OM | 14140,0 | 0718 | 26 | 07 | RUS | | FMCW | | 13k | OTH radar Contayner - 50 sps - Nizhny Novgorod |
| DK2OM | 14171,0 | 1236 | 27 | 07 | RUS | | PSK2A | 120 | 2600 | AT3004D - Moscow |
| DK2OM | 14192,0 | 0640 | 02 | 07 | RUS | | F1B | 50 | 200 | CIS-50-200 - RUS navy Kaliningrad |
| DK2OM | 14192,0 | 0756 | 18 | 07 | RUS | | F1B | 50 | 500 | CIS-50-500 – RUS navy Kaliningrad |
| DK2OM | 14192,0 | 0917 | 03 | 07 | RUS | | F1B | 50 | 200 | CIS-50-200 – RUS navy Kaliningrad |
| DK2OM | 14192,0 | 0736 | 04 | 07 | RUS | | F1B | 75 | 200 | CIS-75-200 – RUS Navy Kaliningrad |
| DK2OM | 14192,0 | 0750 | 08 | 07 | RUS | | F1B | 62.5 | 500 | async. - RUS Navy Kaliningrad |
| DK2OM | 14202,0 | 1125 | 30 | 07 | RUS | | PSK4B | 35.55 | 2760 | CIS-60 HDR modem – (HDR = high data rate) - Samara |
| DK2OM | 14205,0 | vt | dly | 07 | CHN | no ITU | FSK8 | 125 | 1750 | ALE, "505" "822" – 60 deg. from DL - CHN ? |
| DK2OM | 14221,0 | 2034 | 01 | 07 | KGZ | | F1B | 50 | 200 | CIS-50-50 - Bishkek – daily |
| DK2OM | 14240,0 | 0928 | 15 | 07 | RUS | | FMCW | | 13k | OTH radar Contayner - 50 sps – Nizhny Novgorod – splatters covering the whole band |
| DK2OM | 14260,0 | vt | dly | 07 | SRB | YU1BI | FSK8 | 125 | 1750 | ALE, "YU1BI" – just for info! |
| DK2OM | 14265,0 | vt | vd | 07 | TUR | no ITU | FSK8 | 125 | 1750 | ALE, "526" |
| DK2OM | 14274,0 | 1525 | 31 | 07 | RUS | | PSK2A | 120 | 2600 | AT3004D – traffic and submode idle - Sevastopol |
| DK2OM | 14278,0 | 2013 | 08 | 07 | RUS | | PSK2A | 120 | 2600 | AT3004D - Sevastopol |
| DK2OM | 14280,0 | 1005 | Wed. | 07 | UKR | | A3E | | | female voice with encrypted msgs – figures – "SZRU" = Foreign Intelligence Service of Ukraine in Rivne – every Wednesday at 1005 utc |
| DK2OM | 14295,0 | vt | dly | 07 | SRB | YU1BI | FSK8 | 125 | 1750 | ALE, "YU1BI" – just for info! |
| DK2OM | 14295,1 | 1013 | 26 | 07 | TJK | | A3E | | | 3rd from Radio Tajik on 4765 kHz – daily, all day – exact (14295.136 kHz) |
| DK2OM | 14301,7 | 1410 | 05 | 07 | CHN | | PSK2 | 75 | 2200 | PRC 16 tone modem – USB mode – pilottone 450 Hz - China – Shanghai – daily – all day - audible worldwide |
| DK2OM | 14318,5 | 0638 | 29 | 07 | RUS | | F1B bursts | 1200 | 1200 | DPRK-FSK 1200 – North Korean emba Moscow |
| DK2OM | 14322,0 | vt | dly | 07 | CHN | no ITU | FSK8 | 125 | 1750 | ALE, "402" |
| DK2OM | 14328,0 | vt | dly | 07 | CHN | no ITU | FSK8 | 125 | 1750 | ALE, "139" "534" "772" – West China |
| DK2OM | 14330,0 | vt | dly | 07 | | | FSK8 | 125 | 1750 | ALE, "BV4" |
| DK2OM | 14334,0 | vt | vd | 07 | CHN | no ITU | FSK8 | 125 | 1750 | ALE, "249" "255" "763" |
| DK2OM | 14344,7 | 1705 | 08 | 07 | CHN | | PSK8 | 2400 | 2400 | modified MIL-188-110A - 600 bps short – 14344.650 kHz – daily, all day |
| DK2OM | 14346,0 | vt | dly | 07 | HRV RUS D | | FSK8 | 125 | 1750 | ALE, "9A0ZG" "RX3ARZ" "DK0ESD" – just for info – various times, daily |
| DK2OM | 14346,0 | vt | dly | 07 | THA | HSOZEA | A1A | | | HSOZEA beacon – 14345.950 kHz - every 5 minutes – just for |

| DK2OM | kHz | UTC | DD | MM | ITU | IDENT | MODE | BD | SH/SP | DETAILS |
|-------|----------------|-------------|-----------|-----------|------------|--------------------|--------------|------------|-------------|---------------------------------------------------------------------------------------------------------------------------|
| | | | | | | | | | | info! |
| DK2OM | 18100,0 | vt | vd | 07 | MRC | no ITU | FSK8 | 125 | 1750 | ALE, "CD" "C3" "R3" "G3" "E4" "E5" "Z2" "FORD" – daily, various times |
| DK2OM | 18101,7 | 1122 | 15 | 07 | EGY | | F1B | 100 | 170 | Sitor A – MFA Cairo calling emba Madrid (XBVF) – info: mco |
| DK2OM | 18106,0 | vt | vd | 07 | POR | CT2GOY | FSK8 | 125 | 1750 | ALE, "CT2GOY" – just for info! |
| DK2OM | 18107,0 | vt | vd | 07 | RUS | RDL | F1B | 50 | 200 | CIS-50-50 - Moscow – idle and traffic – Russian navy – various days and times – legal operation |
| DK2OM | 18109,0 | 0823 | 29 | 07 | RUS | | PSK2A | 120 | 2600 | AT3004D - Sevastopol |
| DK2OM | 18117,5 | vt | vd | 07 | POR | CT2IXQ | FSK8 | 125 | 1750 | ALE, "CT2IXQ" – just for info |
| DK2OM | 18140,0 | vt | dly | 07 | SRB | YU1BI | FSK8 | 125 | 2600 | ALE, "YU1BI" – just for info! |
| DK2OM | 18150,0 | 0753 | 08 | 07 | RUS | | F1B | 100 | 1000 | harmonic from 9075 kHz (500 Hz shift) - Kaliningrad |
| DK2OM | 20999,0 | 1044 | 21 | 07 | CHN | | FMCW | | 20k | Chinese OTHR – 83 sps - +/- 10 kHz |
| DK2OM | 21000,0 | 1258 | 01 | 07 | SDN | | USB | | | MFA Sudan – Khartoum with emba Yemen – voice traffic |
| DK2OM | 21000,0 | --- | -- | 07 | F | | FMCW | | 20k | OTH radar – 6 sps bursts - South France |
| DK2OM | 21000,0 | 0923 | 03 | 07 | VTN | | USB | | | pirates from Vietnam |
| DK2OM | 21000,0 | 1945 | 19 | 07 | B | | USB | | | Brazilian pirates – Rio de Janeiro with North Brazil – also: 28.07.2015 at 1940 utc |
| DK2OM | 21002,2 | 1306 | 01 | 07 | SDN | !0000 !9999 | F1B | 100 | 170 | 21002.15 kHz - Pactor 1 encrypted – MFA Sudan – Khartoum with emba Yemen – daily, vt - also 16.07.2015 at 1615 utc |
| DK2OM | 21050,0 | 0856 | 04 | 07 | ZAI | | PSK2A | 1200 | 1200 | Goma |
| DK2OM | 21067,5 | 1025 | 31 | 07 | EGY | | F1B PSK4 | 100 75 | 170 1700 | Sitor A Codan9001 - Cairo |
| DK2OM | 21096,0 | vt | dly | 07 | INS | YD00XH | FSK8 | 125 | 1750 | ALE, "YD00XH3" – daily, various times - just for info! |
| DK2OM | 21099,0 | 1052 | 21 | 07 | CHN | | FMCW | | 20k | Chinese OTHR – 83 sps - +/- 10 kHz |
| DK2OM | 21113,0 | 0901 | 04 | 07 | RUS | | F1B | 50 | 200 | CIS-50-200 - Vladivostok |
| DK2OM | 21131,0 | vt | vd | 07 | CHN | no ITU | FSK8 | 125 | 1750 | ALE, "A92" "L02" – Chinese Navy? |
| DK2OM | 21140,9 | vt | dly | 07 | GEO | | PSK8A | 2400 | 2400 | Stanag4538 – GEO MIL with AFG - daily |
| DK2OM | 21145,0 | vt | dly | 07 | MRC | no ITU | FSK8 | 125 | 1750 | ALE, "B301", "C3", "IR4" "T4" "E4" "A2" "CD" "K3" "KB2" "J5" "GS4" "R3" – various times, daily |
| DK2OM | 21145,8 | 0710 | 28 | 07 | I | IZ3DVW | A1A | | | IZ3DVW beacon – 21145,75 kHz - not coordinated with IARU |
| DK2OM | 21190,0 | --- | -- | 07 | RUS | | F1B | 100 | 1000 | harmonic from 10595 kHz - Moscow - daily |
| DK2OM | 21200,0 | vt | dly | 07 | INS | | PSK | 100 | 1300 | Pactor 3 mailbox - Indonesia |
| DK2OM | 21200,0 | 1725 | 27 | 07 | E | | F3E | | | short messages - Madrid |
| DK2OM | 21300,0 | 1045 | 30 | 07 | CHN | | FMCW | | 160k | Chinese OTHR – 10 sps - 21300 – 21460 kHz |
| DK2OM | 21318,5 | 1027 | 31 | 07 | GUI | | F1B burst | 600 | 600 | DPRK-FSK 600 – Conakry North Korean emba – 21318.549 kHz |
| DK2OM | 21346,0 | ady | dly | 07 | THA | HS0ZEA | A1A | | | beacon "HS0ZEA" – just for info! |
| DK2OM | 21400,0 | --- | -- | 07 | RUS | | F1B | 50 | 2000 | harmonic from 5350 kHz – area of Moscow - daily |
| DK2OM | 21409,5 | --- | -- | 07 | RUS | | F1B | 100 | 2000 | F1B 100 / 2000 - CIS14 – harmonic from 10704.75 - Jekaterinburg, RUS - daily |
| DK2OM | 21436,0 | --- | -- | 07 | RUS | | PSK2A | 120 | 5200 | AT3004D – harmonic from 10718.0 kHz - Sevastopol |
| DK2OM | 21438,0 | 0902 | 04 | 07 | RUS | RCV | A1A | | | RIP90 de RCV - RUS Navy |

| DK2OM | kHz | UTC | DD | MM | ITU | IDENT | MODE | BD | SH/SP | DETAILS |
|-------|---------|------|-----|----|----------|--------|------|-----|-------|----------------------------------------------------------------------------------------------------|
| | | | | | | | | | | Sevastopol - daily |
| DK2OM | 21446,0 | ady | dly | 07 | THA | HS0ZEA | A1A | | | HS0ZEA beacon – every 5 minutes - just for info! |
| DK2OM | 25000,0 | vt | vd | 07 | FIN | | A3E | | | time signal Helsinki – just for info – carrier on 25000 – dots on 25001 and 24999 – daily, all day |
| DK2OM | 28000,0 | vt | dly | 07 | CIS | | F3E | | | 28000 – 29700 only few CIS taxi nets |
| DK2OM | 28000,0 | ady | dly | 07 | B | | A3E | | | Brazilian CBers – 28000 – 28315 – no change |
| DK2OM | 28000,0 | 1120 | 07 | 07 | S | | USB | | | male persons from Växjö in Sweden talking in English voice |
| DK2OM | 28002,4 | 0849 | 26 | 07 | I | IS0FFU | A1A | | | beacon – IS0FFU - just for info |
| DK2OM | 28025,0 | 1924 | 05 | 07 | POR | | F1B | 51 | 300 | F1B bursts - 28100.160 kHz - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily |
| DK2OM | 28030,0 | vt | vd | 07 | POR | | F1B | 51 | 340 | F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily |
| DK2OM | 28045,0 | 1925 | 05 | 07 | POR | | F1B | 51 | 280 | F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily |
| DK2OM | 28050,0 | 1830 | 27 | 07 | POR | | F1B | 51 | | F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily |
| DK2OM | 28051,5 | vt | dly | 07 | POR | | F1B | 51 | 300 | F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily |
| DK2OM | 28060,0 | vt | vd | 07 | POR | | F1B | 51 | 320 | F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily |
| DK2OM | 28065,0 | 1613 | 27 | 07 | POR | | F1B | 51 | 300 | F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily |
| DK2OM | 28065,6 | 0838 | 03 | 07 | GAB | | A3E | | 980 | carrier and dots in USB and LSB, bursts every 60 sec – carrier – Gabon – daily and all day |
| DK2OM | 28075,0 | 0845 | 05 | 07 | POR | | F1B | 51 | 300 | F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily |
| DK2OM | 28085,0 | vt | vd | 07 | POR | | F1B | 51 | 300 | F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily |
| DK2OM | 28100,2 | 1844 | 07 | 07 | POR | | F1B | 51 | 250 | F1B bursts - 28100.780 kHz - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily |
| DK2OM | 28102,1 | 1552 | 15 | 07 | POR | | F1B | 51 | 320 | F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily |
| DK2OM | 28125,0 | 1700 | 04 | 07 | POR | | F1B | 51 | 320 | F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily |
| DK2OM | 28146,0 | vt | vd | 07 | ARG B | | FSK8 | 125 | 1750 | ALE, “LU8EX” “PY2TI” “DL1” – just for info! |
| DK2OM | 28200,0 | vt | vd | 07 | POR | | F1B | 51 | 300 | F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily |
| DK2OM | 28224,4 | 1602 | 27 | 07 | GAB | | A3E | | | carrier and dots +/- 770 Hz - bursts every 60 sec – Gabon – daily and all day |
| DK2OM | 28249,6 | 2029 | 08 | 07 | GAB | | A3E | | 1060 | carrier and dots +/- 530 Hz - bursts every 60 sec – Gabon – daily and all day |
| DK2OM | 28250,0 | 1955 | 07 | 07 | E | | USB | | | Spanish CBers |
| DK2OM | 28250,5 | 1928 | 05 | 07 | GAB | | A3E | | 1060 | carrier and dots +/- 530 Hz - bursts every 60 sec – Gabon – daily and all day |
| DK2OM | 28275,1 | 1412 | 08 | 07 | AF | | F1B | 51 | 300 | F1B bursts - west of Lisbon – |

| DK2OM | kHz | UTC | DD | MM | ITU | IDENT | MODE | BD | SH/SP | DETAILS |
|-------|---------|------|-----|----|-----|--------|------------|------|-------|--------------------------------------------------------------------------------------------------------|
| | | | | | | | | | | Atlantic Ocean - Enagal GPS buoys - daily |
| DK2OM | 28285,0 | 1403 | 08 | 07 | E | | A3E | | | Spanish CBers |
| DK2OM | 28312,5 | vt | vd | 07 | POR | CT2IXQ | FSK8 | 125 | 1750 | ALE. "CT2IXQ" – just for info |
| DK2OM | 28315,0 | vt | dly | 07 | POR | | F1B | 51 | 320 | F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily |
| DK2OM | 28335,0 | 1750 | 07 | 07 | E | | A3E F3E | | | Spanish fishery – daily – "Juan" |
| DK2OM | 28345,1 | 1848 | 07 | 07 | GAB | | A3E | | 1060 | carrier and dots +/- 530 Hz - bursts every 60 sec – Gabon – daily and all day |
| DK2OM | 28435,0 | ---- | -- | 07 | E | | F1B | 81.9 | 140 | Datawell-buoy "Waverider" – 28435.040 kHz – Costa del Sol – Malaga |
| DK2OM | 28459,8 | ---- | -- | -- | GAB | | A3E | | 1060 | carrier and dots +/- 530 Hz - bursts every 60 sec – Gabon – daily and all day |
| DK2OM | 28459,9 | 1858 | 07 | 07 | GAB | | A3E | | 1060 | carrier and dots +/- 530 Hz - bursts every 60 sec – Gabon – daily and all day |
| DK2OM | 28499,8 | 1554 | 03 | 07 | MEa | | F1B | 81.9 | 140 | Datawell-buoy "Waverider" – 28499.875 kHz – Persian Gulf |
| DK2OM | 28600,0 | 1035 | 07 | 07 | IRN | | FMCW | | 50k | OTH radar Iran – 307 and 870 sps – splattering +/- 300kHz – even audible in Japan - daily |
| DK2OM | 28701,1 | 0819 | 18 | 07 | GAB | | A3E | | 1056 | carrier and dots +/- 528 Hz - bursts every 60 sec – Gabon – daily and all day |
| DK2OM | 28751,2 | 1618 | 27 | 07 | GAB | | A3E | | 1080 | carrier and dots +/- 540 Hz - bursts every 60 sec – Gabon – daily and all day |
| DK2OM | 28845,5 | 0943 | 07 | 07 | GAB | | A3E | | 1060 | carrier and dots +/- 530 Hz - bursts every 60 sec – Gabon – daily and all day |
| DK2OM | 28901,1 | 1433 | 02 | 07 | GAB | | A3E | | 1056 | carrier and dots +/- 528 Hz - bursts every 60 sec – Gabon – daily and all day |
| DK2OM | 29250,0 | 2018 | 02 | 07 | E | | F1B | 81.9 | 140 | Datawell-buoy "Waverider" – 29249.880 kHz – Fuerteventura - daily, all day |
| DK2OM | 29357,0 | 1135 | 31 | 07 | F | | FSK8 | 125 | 1750 | Thales 3000 - Djibouti |
| DK2OM | 29375,0 | ---- | -- | 07 | I | | F1B | 81.9 | 140 | Datawell-buoy "Waverider" – 29374.898 kHz – Gallipoli, South Italy - daily, all day |
| DK2OM | 29387,5 | --- | -- | 07 | IND | | F1B | 81.9 | 140 | Datawell-buoy "Waverider" – 29387.460 kHz – Indian NW coast, close to Pakistan - daily, all day |
| DK2OM | 29400,0 | --- | -- | 07 | USA | | F1B | 81.9 | 140 | Datawell-buoy "Waverider" – 29400.070 kHz - USA north-east coast – NY daily, all day |
| DK2OM | 29450,0 | --- | -- | 07 | MRC | | F1B | 81.9 | 140 | Datawell-buoy "Waverider" – 29449.870 kHz - area of El Aaiun – Morocco - daily, all day |
| DK2OM | 29500,0 | --- | -- | 07 | G | | F1B | 81.9 | 140 | Datawell-buoy "Waverider" – area of Gibraltar – daily, all day |
| DK2OM | 29525,0 | --- | -- | 07 | MRC | | F1B | 81.9 | 140 | Datawell-buoy "Waverider" – 29524.990 kHz - Agadir - Morocco – daily, all day |
| DK2OM | 29625,0 | --- | -- | 07 | USA | | F1B | 81.9 | 140 | Datawell-buoy "Waverider" – 29625.024 kHz - USA north-east coast – daily, all day |

IRTS – Ireland – EI9GSB (Lisa)**KARS – Kuwait – 9K2RR (Faisal)****MRASZ – Hungary - HA7PL (Laci)**

| SOC | kHz | UTC | DD | MM | ITU | IDENT | MODE | BD | SH | DETAILS |
|-------|---------|------|-----|----|-----|-------|------|----|------|------------------------------------------|
| MRASZ | 3501,0 | 1835 | 1 | 7 | | | USB | | | russian male |
| MRASZ | 3504,3 | 1900 | 1 | 7 | | | USB | | | ui. male singing |
| MRASZ | 3595,0 | 1820 | 9 | 7 | | | LSB | | | numbers, russian female, hrd on: 23 |
| MRASZ | 7000,0 | 1604 | 13 | 7 | | | LSB | | | ui. male singing |
| MRASZ | 7000,0 | 1548 | 21 | 7 | | | LSB | | | ui. male singing |
| MRASZ | 7011,3 | 1507 | 12 | 7 | | | USB | | | changeable two tone, $\Delta f = 370$ Hz |
| MRASZ | 7011,3 | 1506 | 24 | 7 | | | USB | | | changeable two tone, $\Delta f = 370$ Hz |
| MRASZ | 7011,3 | 1705 | 27 | 7 | | | USB | | | changeable two tone, $\Delta f = 370$ Hz |
| MRASZ | 7018,0 | 1549 | 21 | 7 | | | N0N | | | |
| MRASZ | 7018,6 | 1546 | 10 | 7 | | | N0N | | | |
| MRASZ | 7025,0 | 1544 | 16 | 7 | | | LSB | | | ui. male |
| MRASZ | 7027,5 | 1834 | 1 | 7 | | | A1A | | | slow "V" string, hrd on: 6, 13 |
| MRASZ | 7048,0 | 1923 | 23 | 7 | | | A1A | | | "dzczn kfuwo rgku rpt all glu k" |
| MRASZ | 7050,0 | vt | dly | 7 | | | LSB | | | chaos, russian music |
| MRASZ | 7055,0 | vt | dly | 7 | | | LSB | | | chaos, russian music |
| MRASZ | 7056,0 | 1532 | 10 | 7 | | | OTHR | | | |
| MRASZ | 7059,0 | 1746 | 12 | 7 | | | N0N | | | |
| MRASZ | 7070,0 | 1832 | 1 | 7 | | | LSB | | | music |
| MRASZ | 7070,0 | 0810 | 2 | 7 | | | LSB | | | music |
| MRASZ | 7070,0 | 1810 | 29 | 7 | | | LSB | | | russian chaos |
| MRASZ | 7090,0 | 1831 | 1 | 7 | | | PSK8 | | | link 11 SLEW |
| MRASZ | 7090,0 | 1551 | 21 | 7 | | | PSK8 | | | link 11 SLEW |
| MRASZ | 7120,0 | 1724 | 1 | 7 | SOM | | A3E | | | R. Harg.hrd: 9,12,13,16,17,21,27,28,29 |
| MRASZ | 7175,0 | 1553 | 21 | 7 | | | A3E | | | ui. BC, hrd on: 27, |
| MRASZ | 7200,0 | 1758 | 9 | 7 | | | A3E | | | splatter till 5 kHz down |
| MRASZ | 10130,0 | 1523 | 30 | 7 | | | OTHR | | | 50 Hz |
| MRASZ | 10131,0 | 1458 | 24 | 7 | | | F1B | | 250 | |
| MRASZ | 10140,0 | 1609 | 30 | 7 | | | OTHR | | | 10040-10160 kHz till 1637 ÚT |
| MRASZ | 10144,0 | 1645 | 30 | 7 | | | A1A | | | "...de O1W2 QRV K" |
| MRASZ | 10145,5 | 1759 | 13 | 7 | | | USB | | | ui. male |
| MRASZ | 14020,0 | 1751 | 9 | 7 | | | OTHR | | | |
| MRASZ | 14064,0 | 1450 | 10 | 7 | | | F1B | | 250 | |
| MRASZ | 14097,8 | 1715 | 27 | 7 | | | USB | | | ui. male |
| MRASZ | 14100,0 | 0952 | 19 | 7 | | | OTHR | | | |
| MRASZ | 14100,0 | 0952 | 24 | 7 | | | OTHR | | | 14090 -14105 kHz |
| MRASZ | 14100,0 | 1717 | 27 | 7 | | | OTHR | | | 14085-14110 kHz |
| MRASZ | 14100,0 | 1738 | 27 | 7 | | | OTHR | | | 14085-14110 kHz |
| MRASZ | 14100,0 | 1905 | 27 | 7 | | | OTHR | | | 14085-14110 kHz |
| MRASZ | 14108,0 | 1221 | 30 | 7 | | | A1A | | | "KN6Q (3X9 de Y8O9 (2X))" |
| MRASZ | 14110,0 | 1454 | 12 | 7 | | | OTHR | | | |
| MRASZ | 14116,0 | 1445 | 10 | 7 | | | F1B | | 250 | |
| MRASZ | 14141,0 | 1204 | 30 | 7 | | | F1B | | 500 | |
| MRASZ | 14177,0 | 1202 | 30 | 7 | | | F1B | | 500 | |
| MRASZ | 14192,0 | 1616 | 16 | 7 | | | F1B | | 200 | |
| MRASZ | 14192,1 | 0950 | 19 | 7 | | | F1B | | 200 | |
| MRASZ | 14280,0 | 1438 | 10 | 7 | | | OTHR | | | |
| MRASZ | 14280,0 | 1201 | 30 | 7 | | | OTHR | | | |
| MRASZ | 14295,1 | vt | dly | 7 | TJK | | A3E | | | R.Tajikistan, 3rd. harm. |
| MRASZ | 14301,7 | 1923 | 6 | 7 | CHN | | PSK2 | 75 | 2200 | |

| SOC | kHz | UTC | DD | MM | ITU | IDENT | MODE | BD | SH | DETAILS |
|-------|---------|------|----|----|-----|-------|------|----|------|----------------|
| MRASZ | 14301,7 | 1703 | 27 | 7 | CHN | | PSK2 | 75 | 2200 | |
| MRASZ | 14330,0 | 1333 | 30 | 7 | | | OTHR | | | 1433-14405 kHz |
| MRASZ | 21100,0 | 1818 | 1 | 7 | | | A3E | | | ui. BC |
| MRASZ | 21235,0 | 1816 | 1 | 7 | | | A3E | | | ui. BC |

OEVSU – Austria – OE3GSA (Gerd)

| SOC | kHz | UTC | DD | MM | ITU | IDENT | MODE | BD | SH | DETAILS |
|-------|---------|------|----|----|------|-------|------|----|----|-------------------------|
| oevsu | 7070.0 | 0733 | 02 | 07 | unid | unid | J3E1 | | | music, males in russian |
| oevsu | 14190.0 | 0742 | 02 | 07 | unid | unid | F3E | | | fast RTTY |
| oevsu | 18080.0 | 0736 | 30 | 06 | BY | unid | A3A | | | BC in chinese as usual |

PZK – Poland – SP9BRP (Jan)

REF 1 – France – F5MIU (Francis)

| SOC | kHz | UTC | DD | MM | ITU | IDENT | MODE | Baud | Sh /Bw | DETAILS |
|-----|---------|------|----|-------------|-------------|-------|------|------|----------|----------------------------------------------------------------------------------------------------------------------------------------|
| | | | | June | 2015 | | | | | |
| REF | 14270 | 0839 | 19 | 06 | | | fmcw | | 25kHz | OTHR Mil S7 |
| REF | 14280 | 1704 | 23 | 06 | | | fmcw | | 30/80kHz | OTHR Mil S9+10 bad spectrum |
| REF | 14300 | 1621 | 29 | 06 | | | Data | | 4kHz | Strange idle data on 14300kHz, band pass 4kHz. Subcarrier à 143017 & 143029kHz. Sometime ident or checksum covering 14300 to 14304kHz. |
| REF | 18135 | 0748 | 12 | 06 | | | fmcw | | 90kHz | From 18.000 to 18.090 S9 |
| REF | 21390 | 0804 | 18 | 06 | | | fmcw | | 20kHz | OTHR Mil S7 |
| | | | | July | 2015 | | | | | |
| REF | 10145.5 | 1720 | 13 | 07 | | | USB | | 3kHz | Unidentified language S4 |
| REF | 10150 | 0950 | 23 | 07 | | | fmcw | | 40kHz | OTHR Mil S9 |
| REF | 14100 | 0802 | 22 | 07 | | | fmcw | | 40kHz | OTHR Mil S9 |
| REF | 14100 | 0819 | 24 | 07 | | | fmcw | | 10kHz | OTHR Mil S9+ 10Hz swp |
| REF | 14100 | 0819 | 27 | 07 | | | fmcw | | 10kHz | OTHR Mil S9+ 10Hz swp |
| REF | 14150 | 0952 | 23 | 07 | | | fmcw | | 40kHz | OTHR Mil S9 |
| REF | 21200 | 1645 | 27 | 07 | | | FM | | 12.5kHz | Spanish fisherman? S9 |

REF 2 – France – F5JBR (Andre)

REP – Portugal – CT4AN (Jose Francisco)

| SOC | kHz | UTC | DD | MM | ITU | IDENT | MODE | BD | SH | DETAILS |
|-----|--------------|--------------|-----------|-----------|------------|----------|--------------|----|----|-----------------------------------------|
| REP | 3550 | 07.26 | 03 | 07 | | | J3E-U | | | Unid fishermen |
| REP | 3790 | 08.01 | 10 | 07 | E | | J3E-U | | | Spanish fishery |
| REP | 7039 | 23.44 | 25 | 07 | RUS | C | A1A | | | MOSCOW, ADY, DLY |
| REP | 7040 | 06.38 | 11 | 07 | E | | J3E-U | | | Fishermen |
| REP | 10125 | 22.12 | 11 | 07 | | | FMCW | | | OTH radar |
| REP | 10130 | 10.03 | 22 | 07 | IRL | | J3E-U | | | Fishermen |
| REP | 10132 | 10.16 | 21 | 07 | F | | J3E-U | | | Amateurs not observing Bandplan |
| REP | 10135 | 22.11 | 13 | 07 | MRC | | J3E-U | | | Arabic |
| REP | 10140 | 13.22 | 26 | 07 | E | | J3E-U | | | Spanish fishery |
| REP | 10140 | 23.02 | 05 | 07 | | | A3E | | | Female voice - 5 Letter groups code |
| REP | 14003 | 11.35 | 06 | 07 | | | F1B | | | Not on a standard speed |
| REP | 14010 | 07.55 | 12 | 07 | | | FMCW | | | OTH radar 40sps/20kHz |
| REP | 14015 | 14.00 | 15 | 07 | | | FMCW | | | OTH radar 50 cps, abt 20kHz wide |

| SOC | kHz | UTC | DD | MM | ITU | IDENT | MODE | BD | SH | DETAILS |
|-----|-------|-------|----|----|-----|-------|-------|----|-----|------------------------------------|
| REP | 14026 | 12.10 | 06 | 07 | RUS | | J7D | | | Russian AT300D FSK |
| REP | 14135 | 15.20 | 01 | 07 | RUS | | FMCW | | | OTH radar 10kHz/10 sps |
| REP | 14141 | 15.06 | 24 | 07 | | | F1B | 75 | 500 | Unid FSK encrypted |
| REP | 14240 | 11.05 | 04 | 07 | RUS | | F1B | 75 | 250 | Mil station, daily |
| REP | 14290 | 18.30 | 23 | 07 | | | FMCW | | | OTH radar |
| REP | 14310 | 08.04 | 02 | 07 | | | A1A | | | Letters and numbers - code station |
| REP | 18080 | 12.08 | 18 | 07 | | | FMCW | | | OTH radar 10kHz 48cps |
| REP | 21025 | 16.21 | 17 | 07 | | | FMCW | | | OTH radar 20kHz 50cps |
| REP | 21375 | 16.05 | 19 | 07 | E | | J3E-U | | | Spanish fishery |
| REP | 24900 | 12.50 | 19 | 07 | B | | J3E-L | | | Brazilians not amateurs |
| REP | 28050 | 15.19 | 10 | 07 | E | | F1B | 50 | 270 | Spanish Enagal buoy |
| REP | 28060 | 09.41 | 06 | 07 | | | F3E | | | Taxi dispatchers |
| REP | 28065 | 14.55 | 06 | 07 | RUS | | F3E | | | YL taxi dispatcher |
| REP | 28120 | 09.35 | 11 | 07 | | | FMCW | | | OTH radar |
| REP | 28165 | 09.10 | 21 | 07 | RUS | | F3E | | | Russian dispatcher |
| REP | 28277 | 14.22 | 15 | 07 | | | F1B | 50 | 270 | Enagal buoy |
| REP | 28620 | 11.23 | 18 | 07 | | | FMCW | | | OTH radar |
| REP | 28715 | 16.17 | 20 | 07 | RUS | | F3E | | | Taxi dispatcher |
| REP | 29205 | 16.35 | 27 | 07 | RUS | | F3E | | | Russian taxi dispatcher |
| REP | 29505 | 16.03 | 27 | 07 | RUS | | F3E | | | Taxi dispatcher |

RSGB - Great Britain – M0VRR (Vaughan)

SRAL – Finland – OH2BLU (Pekka)

| Society | kHz | UTC | DD | MM | ITU | IDENT | MODE | BD | SH | REMARKS |
|---------|---------|-----------|-------------|----|-----|--------|-------------|-----|---------------|---------------------------------|
| SRAL | 7000,0 | 1500-1600 | 6. | 7 | | UiMUX | PSK2 | 120 | 2600 | |
| SRAL | 7000,0 | 0815-1630 | 4. 5. 6. | 7 | | UiCarr | N0N | | | |
| SRAL | 7008,0 | 0600-1945 | * | 7 | | UiPTR | F1B | | 250 | Days: 13. 20. 31. |
| SRAL | 7011,4 | 2300-1830 | dly | 7 | | UiTone | A2 | | 1200/ 1900 | 2-tone |
| SRAL | 7016,0 | 0600-1150 | * | 7 | | UiPTR | F1B | | 250 | Days: 13. 20. 31. |
| SRAL | 7018,0 | 1410 | 21. | 7 | | UiMUX | PSK2 | 120 | 2600 | |
| SRAL | 7018,75 | h24 | 7. – 31. | 7 | | UiPTR | F1B/ N0N | | 250 | N0 on 7018,625 kHz |
| SRAL | 7020,0 | 0630-1800 | 5. 31. | 7 | | UiPTR | F1B | | 250 | |
| SRAL | 7025,0 | 0645-1530 | * | 7 | | UiPTR | F1B | | 200 | Days: 5. 6. 11. |
| SRAL | 7027,5 | 1600-2400 | Dly | 7 | UZB | V | A1A | | | Khiva |
| SRAL | 7030,0 | 1450 | 28. | 7 | | UiMUX | PSK2 | 120 | 2600 | |
| SRAL | 7034,0 | 1600-1800 | * | 7 | | UiPTR | F1B | | 250 | Days: 4. 25. 28. |
| SRAL | 7036,0 | 1730-1800 | 4. | 7 | | UiMUX | PSK2 | 120 | 2600 | |
| SRAL | 7048,0 | 1030-1400 | 4. | 7 | | UiCW | A1A | | | 5BL |
| SRAL | 7051,0 | 2300-0600 | * | 7 | | UiPTR | F1B | | 250 | Days: 4. 9. 10. 18. 19. 20. 21. |
| SRAL | 7059,6 | 1110-1750 | 12. | 7 | | UiCarr | N0N | | | |
| SRAL | 7059,6 | 0200-0550 | 13. | 7 | | UiCarr | N0N | | | |
| SRAL | 7068,0 | 2240 | 29. | 7 | | UiMUX | PSK2 | 120 | 2600 | |
| SRAL | 7070,4 | 1750- | 19. | 7 | | UiPTR | F1B | | 500 | |

| Society | kHz | UTC | DD | MM | ITU | IDENT | MODE | BD | SH | REMARKS |
|---------|---------|-------------|------------|----|-----|----------------|------|-----|------|--------------------------------|
| | | 1835/ | | | | | | | | |
| SRAL | 7088,6 | 0730-1845 | 25. | 7 | | UiCarr | N0N | | | |
| SRAL | 7088,6 | 0310-1205 | 26. | 7 | | UiCarr | N0N | | | |
| SRAL | 7090,5 | 0730-1840 | 25. | 7 | | UiMUX | PSK2 | 120 | 2600 | |
| SRAL | 7091,5 | 1115 | 12. | 7 | | UiPTR | F1B | | | |
| SRAL | 7097,0 | 1450-1535 | 28. | 7 | | UiPTR | F1B | | 200 | |
| SRAL | 7099,0 | 1010-1300 | 28. | 7 | | UiMUX | PSK2 | 120 | 2600 | |
| SRAL | 7111,0 | 0855-1950 | 31. | 7 | RUS | UiPTR | F1B | | 250 | |
| SRAL | 7116,6 | 1500-1930 | 23. | 7 | | UiCarr | N0N | | | |
| SRAL | 7120,0 | 1345-1910/ | dly | 7 | SOM | R.Hargeis a | A3E | | | |
| SRAL | 7122,0 | 0810-0900 | 13. | 7 | | UiPTR | F1B | | 250 | |
| SRAL | 7122,0 | 1530-2300 | 23.-31. | 7 | UZB | V | A1A | | | // 7027,5 kHz |
| SRAL | 7133 A | 1755 | 6. | 7 | IRN | IRIB | A3E? | | | Spur. // 7200,0 kHz |
| SRAL | 7133,0 | 1030-1700 | * | 7 | | UiPTR | F1B | | | Days: 4. 6. 13. |
| SRAL | 7135,0 | 1210 | 8. | 7 | | UiMUX | PSK2 | 120 | 2600 | |
| SRAL | 7151,0 | 1100-1930 | 4. | 7 | | UiMUX | PSK2 | 120 | 2600 | |
| SRAL | 7152,0 | 1600-1930 | 1. 2. | 7 | | UiMUX | PSK2 | 120 | 2600 | |
| SRAL | 7152,0 | 1145 | 11. | 7 | | UiPTR | F1B | | | |
| SRAL | 7160,0 | 0750-1110/ | 21. 22. | 7 | RUS | RMW32 | A1A | | | |
| SRAL | 7162,0 | 0630-10001 | 5. 27. | 7 | | UiPTR | F1B | | 250 | |
| SRAL | 7169,0 | 1010 | 28. | 7 | | UiPTR | F1B | | | |
| SRAL | 7175,0 | 1530-1806/ | * | 7 | ERI | VoBME2 | A3E | | | Days: 22. 23. 26. 29. +Jamming |
| SRAL | 7175,0 | 0250 | 31. | 7 | ERI | VoBME2 | A3E | | | |
| SRAL | 7179,0 | 1140 | 19. | 7 | | UiMUX | PSK2 | 120 | 2600 | |
| SRAL | 7181,6 | 1400-0640/ | * | 7 | | UiCarr | N0N | | | Days: 12. 19. 20. 23. 31. |
| SRAL | 7184,0 | 0420-0830 | 5. 8. | 7 | | UiPRT | F1B | | | |
| SRAL | 7184,0 | 1600-1630 | 2. | 7 | | UiMUX | PSK2 | 120 | 2600 | |
| SRAL | 7200,0 | /1720-1820/ | dly | 7 | IRN | IRIB | A3E | | | German PX |
| SRAL | 7200,0 | /1000-1300/ | dly | 7 | CHN | CNR1 | A3E | | | Used as jammer |
| SRAL | 14008,0 | 1400-0640/ | * | 7 | | UiPTR | F1B | | | Days: 12. 19. 20. 23. 31. |
| SRAL | 14026,0 | 0850-1815 | * | 7 | | UiMUX | PSK2 | 120 | 2600 | Days: 7. 12. 18. 29. |
| SRAL | 14108,0 | 0435-1015 | * | 7 | | 9YV5 | A1A | | | Days: 1. 3. 7. |
| SRAL | 14116,0 | 1305 | 5. | 7 | | UiCW | A1A | | | 5BL |
| SRAL | 14116,0 | 0650-1440 | 9. 10. | 7 | RUS | UiPTR | F1B | | 250 | |
| SRAL | 14118,0 | 1130 | 18. | 7 | RUS | UiMUX | PSK2 | 120 | 2600 | |
| SRAL | 14131,1 | 0400-0945 | 18. | 7 | | UiCarr | N0N | | | |
| SRAL | 14141,0 | 0850-1155 | * | 7 | RUS | UiPTR | F1B | | 500 | Days: 8. 12. 30. |
| SRAL | 14160,0 | 0425-0555/ | 29. | 7 | | UiPTR | F1B | | 250 | |
| SRAL | 14169,0 | 0810-0845 | 6. | 7 | | UiPTR | F1B | | 200 | |

| Society | kHz | UTC | DD | MM | ITU | IDENT | MODE | BD | SH | REMARKS |
|---------|---------|------------|--------|----|-----------|-----------------|-------|-----|---------|---------------------------------------------------------------|
| SRAL | 14177,0 | 0850-1155 | * | 7 | RUS | UiPTR | F1B | | 500 | Days: 8. 12. 30. |
| SRAL | 14192,0 | 0600-1930 | * | 7 | RUS | UiPTR | F1B | | 200/500 | Days: 4. 6. 8. 9. 12. 17. 18. 31. |
| SRAL | 14221,0 | 2230-0600/ | dly | 7 | KGZ | UiPTR | F1B | | 250 | |
| SRAL | 14240,0 | 0710-1150 | 9. 10. | 7 | | UiPTR | F1B/A | | 200/250 | |
| SRAL | 14274,0 | 0710-1520 | 31. | 7 | | UiMUX | PSK2 | 120 | 2600 | |
| SRAL | 14278,0 | 0650-0710 | 9. | 7 | | UiMUX | PSK2 | 120 | 2600 | |
| SRAL | 14295,2 | h24 | dly | 7 | TJK | R Tojikiston | A3E | | | 3f 4765,07 kHz, Yangiyul TX |
| SRAL | 14 MHz | 0600-2000 | * | 7 | RUS | 29B6 | FMCW | | | 50Hz / 15 kHz, days: 1. 3. 7. 10. 11. 18. 20. 21. 22. 23. 25. |
| SRAL | 14 MHz | 0430-1930 | dly | 7 | RUS | UiOTHR | FMCW | | | 10Hz / 15 kHz, 30 sec bursts |
| SRAL | 18080,0 | 0630-0800 | * | 7 | CHN | CNR1 | A3E+ | | | Days: 3. 9. 18. 27. Used as jammer |
| SRAL | 18 MHz | 0545 | 18. | 7 | CYP / TUR | UiOTHR | FMCW | | | 25/50Hz / 20 kHz |
| SRAL | 21 MHz | 0730-0830 | 18. | 7 | CYP / TUR | UiOTHR | FMCW | | | 25/50Hz / 20 kHz |
| SRAL | 21275,0 | 1010-1040 | 11. | 7 | | UiMUX | PSK2 | 120 | 2600 | |
| SRAL | 21438,0 | 0830-1300 | * | 7 | RUS | RCV | A1A | | | Days: 2. 4. 5. 8. 11. 16. |
| SRAL | 24 MHz | 1210 | 18. | 7 | CYP / TUR | UiOTHR | FMCW | | | 25/50Hz / 20 kHz |
| SRAL | 28 MHz | 0730-1300 | * | 7 | IRN | UiOTHR | FMCW | | | 307 & 870 Hz / 60 kHz – 300 kHz, days: 5. 7. 18. |
| SRAL | 28 MHz | 1020 | 18. | 7 | RUS | Taxi disp. | F3E | | | 1 report |

USKA – Switzerland – HB9CET (Peter)

| SOC | kHz | UTC | DD | MM | ITU | IDENT | MODE | BD | SH (BW) | DETAILS |
|------|-------------------|------|----|----|-----|--------|-------|--------|---------|------------------------------------------------|
| USKA | 3550.0 | 0102 | 23 | 07 | | | J7D | 12x120 | 2k7 | PSK-2: CIS12 – AT3004D |
| USKA | 3552.0 VFO USB | 0051 | 23 | 07 | | | PSK8 | 2400 | ~2k4 | Stanag 4285; often frame format 600bps/long |
| USKA | 3568.0 | 2153 | 31 | 07 | | | F1B | 75 | 250 | |
| USKA | 3586.0 | 2145 | 31 | 07 | | | F1B | 75 | 200 | |
| USKA | 3745.0 | 0054 | 23 | 07 | | | F1B | 75 | 250 | |
| USKA | 7000.0 | 2243 | 23 | 07 | | | NON | | | long lasting carrier often |
| USKA | 7008.0 | 0642 | 31 | 07 | | | F1B | 75 | 250 | often |
| USKA | 7010.0 | 2201 | 21 | 07 | | 810403 | MFSK8 | 125 | 1750 | MIL 188-141A |
| USKA | 7016.0 | 0748 | 09 | 07 | | | J7D | 12x120 | 2k7 | PSK-2: CIS12 – AT3004D |
| USKA | 7018.7 | 0012 | 23 | 07 | | | NON | | | long lasting carrier |
| USKA | 7020.0 | 1231 | 21 | 07 | | Names | J3E-L | | | unid language (Asian) |
| USKA | 7020.0 | 2134 | 31 | 07 | | | F1B | 75 | 250 | also some short F1A |
| USKA | 7021.0 | 2157 | 22 | 07 | | | MFSK8 | 125 | 1750 | MIL 188-141A To: B16 |
| USKA | 7027.0 | 0007 | 23 | 07 | | | MFSK8 | 125 | 1750 | MIL 188-141A To: G6T3 |
| USKA | 7027.5 | 2129 | 20 | 07 | | V | A1A | | | Beacon ID "V" almost daily |
| USKA | 7031.5 | 1136 | 09 | 07 | | | F1B | 100 | 250 | |
| USKA | 7035.0 | 0022 | 23 | 07 | | | J3E-U | | | unid language |
| USKA | 7039.4 | 2228 | 08 | 07 | RUS | M | A1A | | | Beacon M Magadan daily |
| USKA | 7049.0 | 2214 | 30 | 07 | | | ? | | 825 | unident burst system (weak) |
| USKA | 7050.0 | 2132 | 13 | 07 | | | J3E-L | | ≥ 3k3 | Music, voice, often |
| USKA | 7051.0 | 2131 | 05 | 07 | | | F1B | 50 | 200 | CIS 50-50 almost daily |
| USKA | 7060.0 | 0901 | 10 | 07 | | | J7D | 12x120 | 2k7 | PSK-2: CIS12 – AT3004D |
| USKA | 7064.0 | 2230 | 08 | 07 | | | J7D | 12x120 | 2k7 | PSK-2: CIS12 – AT3004D |
| USKA | ~7075. | 1949 | 24 | 07 | | | ? | | ~20k | wide Jammer |
| USKA | 7088.0 VFO USB | 1527 | 01 | 07 | | | G1D | 2400 | 2k4 | PSK-8: Link 11- SLEW often |

| SOC | kHz | UTC | DD | MM | ITU | IDENT | MODE | BD | SH (BW) | DETAILS |
|------|--------------------|------|----|----|-----|--------|-------------|--------------------|---------|--------------------------------------------------------------------------------------------------|
| USKA | 7088.5 VFO USB | 0030 | 23 | 07 | | | J7D BPSK | 12x120 | 2k7 | PSK-2: CIS12 – AT3004D |
| USKA | 7088.5 VFO USB | 2246 | 25 | 07 | | | J7D QPSK | 12x120 | 2k7 | PSK-4: CIS12 – AT3104D with carrier and pilottone |
| USKA | 7091.5 | 0847 | 10 | 07 | | | F1B | 100 | 250 | |
| USKA | 7093.5 | 1125 | 09 | 07 | | | J7D | 12x120 | 2k7 | PSK-2: CIS12 – AT3004D |
| USKA | 7102.5 | 0747 | 09 | 07 | | | J7D | 12x120 | 2k7 | PSK-2: CIS12 – AT3004D |
| USKA | 7111.0 | 2122 | 31 | 07 | | | F1B | 75 | 250 | |
| USKA | 7113.0 | 0753 | 09 | 07 | | | F1B | 50 | 200 | |
| USKA | 7120.0 | 1645 | 09 | 07 | SOM | | A3E | | | Radio Hargaysa (back) daily |
| USKA | 7121.0 VFO LSB | 2049 | 26 | 07 | | | BPSK | 60 | ~2k4 | Burst system; spacing 75Hz preamble 4x BPSK 60Bd, spacing 600Hz; Pilottone at 450Hz often |
| USKA | 7122.0 | 2221 | 20 | 07 | | V | A1A | | | Beacon V almost daily |
| USKA | 7141.0 | 2226 | 31 | 07 | | | J7D | 12x120 | 2k7 | PSK-2: CIS12 = AT3004D |
| USKA | 7160.0 | 1505 | 31 | 07 | | | J7D | 12x120 | 2k7 | PSK-2: CIS12 = AT3004D with carrier at 7158.0 |
| USKA | 7168.5 | 1211 | 03 | 07 | | | F1B | | 250 | |
| USKA | 7169.0 | 1459 | 31 | 07 | | | J7D | 12x120 | 2k7 | PSK-2: CIS12 = AT3004D |
| USKA | 7175.0 | 1539 | 30 | 07 | | | A3E | | | BC, jammed |
| USKA | 7176.0 | 2154 | 23 | 07 | | | J7D | 12x120 | 2k7 | PSK-2: CIS12 = AT3004D |
| USKA | 7177.0 | 1712 | 09 | 07 | | | F1B | 50 | 200 | often |
| USKA | 7181.625 | 2241 | 31 | 07 | | | N0N | | | long lasting carrier |
| USKA | 7197.0 | 2204 | 20 | 07 | | 335013 | MFSK8 | 125 | 1750 | MIL 188-141A daily |
| USKA | 7197.0 | 2218 | 20 | 07 | | 348013 | MFSK8 | 125 | 1750 | MIL 188-141A daily |
| USKA | 7200.0 | 1222 | 21 | 07 | | MYA | A3E | | ~20k | BC lower sideband down to 7190 maybe 2 different TX ! |
| USKA | 7200.0 | 2242 | 21 | 07 | | IRN | A3E | | ~10k | BC IRIB, voice of I.R. Iran lower sideband down to 7195 |
| USKA | 7205.0 | 2127 | 19 | 07 | | RFI | A3E | | | BC, splattering down to ca. 7185! |
| USKA | 14003.0 | 0855 | 10 | 07 | | | FMOP | 50 | ~13k | OTHR |
| USKA | 14021.0 | 2059 | 20 | 07 | | | QPSK | 8x75 | 2k5 | CHN 4+4 |
| USKA | 14099.0 | 2222 | 20 | 07 | | | FMOP | 10 sps | ~10k | OTHR burst system, short sequence only |
| USKA | 14100.0 | 1624 | 20 | 07 | | | FMOP | 10 sps | ~10k | OTHR burst system |
| USKA | 14105.0 | 2141 | 31 | 07 | | | FMOP | 10 sps | ~10k | OTHR burst system |
| USKA | 14118.0 | 1016 | 31 | 07 | | | J7D | 12x120 | 2k7 | PSK-2: CIS12 = AT3004D |
| USKA | 14135.0 | 1221 | 03 | 07 | | | FMCW | 50 | ~13k | OTHR |
| USKA | 14192.0 | 1225 | 03 | 07 | | | F1B | 50 | 200 | CIS 50-50 daily |
| USKA | 14192.0 | 2219 | 08 | 07 | | | F1B | 50 | 500 | CIS 50-50 daily |
| USKA | 14221.0 | 2237 | 01 | 07 | | | F1B | 50 | 200 | often |
| USKA | 14274.0 | 0926 | 31 | 07 | | | J7D | 12x120 | 2k7 | PSK-2: CIS12 = AT3004D |
| USKA | 14278.0 | 2213 | 08 | 07 | | | J7D | 12x120 | 2k7 | PSK-2: CIS12 = AT3004D |
| USKA | 14295.1 | 1738 | 01 | 07 | TJK | | A3E | | | BC: 3 rd of Radio Tajik at 4765 kHz daily |
| USKA | 14300.0 VFO USB | 1734 | 01 | 07 | | | BPSK | 16x75 | 2k2 | Burst system; 16 tones, tone spacing appx 104Hz; 2 pilottones |
| USKA | 21275.0 | 0905 | 10 | 07 | | | J7D | 12x120 | 2k7 | PSK-2: CIS12 = AT3004D |
| USKA | 21318.55 | 0947 | 10 | 07 | | | F1B | 600 | 600 | ARQ system often |
| USKA | 21438.0 | 0901 | 07 | 07 | | RCV | A1A | | | letters and figures daily |
| USKA | 28600.0 | 0918 | 05 | 07 | | | ? | 307 sps 870 sps | app 50k | OTHR Burst system; affected BW often > 100k daily |

Veron 1 – Netherlands – PA2GRU (Dick)

| SOC | kHz | UTC | DD | MM | ITU | IDENT | MODE | SHIFT | DETAILS |
|-------|---------|-------|----|----|-----|-------|------|-------|-------------------|
| VERON | 3532,0 | 19.37 | 17 | 7 | | UiPTR | F1B | | Ptr |
| VERON | 3594,0 | 17.46 | 1 | 7 | RUS | RGR79 | A1A | | RGR79 OK QRU k |
| VERON | 7005,0 | 17.20 | 6 | 7 | | UiBC | LSB | | Arabic songs |
| VERON | 7018,0 | 20.17 | 7 | 7 | RUS | UiCAR | A1A | | strong carrier S9 |
| VERON | 7040,0 | 17.36 | 17 | 7 | | UiPTR | F1B | | Revs |
| VERON | 7120,0 | 18.54 | 26 | 7 | SOM | R.Har | A3E | | speech |
| VERON | 10108,0 | 12.23 | 10 | 7 | CIS | UiPTR | F1B | | Revs/Ptr |
| VERON | 10143,0 | 17.32 | 17 | 7 | | UiPTR | F1B | | Ptr |
| VERON | 14008,0 | 14.21 | 6 | 7 | RUS | UiPtr | F1B | | Ptr |

| SOC | kHz | UTC | DD | MM | ITU | IDENT | MODE | SHIFT | DETAILS |
|-------|---------|-------|----|----|-----|-------|------|-------|-----------------------------------|
| VERON | 14008,0 | 10.25 | 23 | 7 | CIS | UiPTR | F1B | | Carrier/Revs/Ptr |
| VERON | 14025,0 | 16.13 | 7 | 7 | | OTHR | FMCW | | radar |
| VERON | 14050,0 | 11.11 | 15 | 7 | RUS | UiPtr | F1B | | Ptr, |
| VERON | 14090,0 | 13.03 | 25 | 7 | | OTHR | FMCW | | radar |
| VERON | 14092,0 | 16.19 | 7 | 7 | | UiPtr | F1B | | Ptr |
| VERON | 14097,0 | 17.50 | 1 | 7 | | UiCAR | A1A | | Strong Carrier |
| VERON | 14099,0 | 11.23 | 17 | 7 | | OTHR | FMCW | | radar |
| VERON | 14100,0 | 08.00 | 22 | 7 | RUS | OTHR | FMCW | | 50 sps Nizhny Novogorod mni hours |
| VERON | 14108,0 | 08.23 | 24 | 7 | CIS | Y8O9 | A1A | | Y8O9 R 817 ? K (to: FP1Q 3T9Q) |
| VERON | 14108,0 | 08.25 | 24 | 7 | CIS | Y8O9 | A1A | | Y8O9 R 817 ? K (to: 1ZWF L65R) |
| VERON | 14108,0 | 08.32 | 24 | 7 | CIS | Y8O9 | A1A | | L65R de Y8O9 QTC 453 MMMMM 5BL |
| VERON | 14108,0 | 08.39 | 24 | 7 | CIS | Y8O9 | A1A | | KN6Q de Y8O9 QTC 354 MMMMM 5BL |
| VERON | 14108,0 | 08.41 | 24 | 7 | CIS | UiCW | A1A | | Y1CQ ZPO ZAR ZVK k |
| VERON | 14108,0 | 08.47 | 24 | 7 | CIS | Y8O9 | A1A | | CPFE de Y8O9 k |
| VERON | 14115,0 | 07.15 | 9 | 7 | RUS | UiPtr | F1B | | Ptr |
| VERON | 14117,0 | 11.11 | 17 | 7 | RUS | UiMUX | PSK2 | | 12 MPSK |
| VERON | 14135,0 | 09.31 | 3 | 7 | | OTHR | FMCW | | radar |
| VERON | 14140,0 | 09.15 | 23 | 7 | | OTHR | FMCW | | radar |
| VERON | 14169,0 | 08.29 | 6 | 7 | RUS | UiPtr | F1B | | Ptr |
| VERON | 14192,0 | 09.33 | 3 | 7 | RUS | UiPtr | F1B | 200 | Ptr |
| VERON | 14192,0 | 14.01 | 27 | 7 | RUS | UiPtr | F1B | 200 | Ptr-Revs |
| VERON | 14192,0 | vt | vd | 7 | CIS | UiPTR | F1B | | Revs/Ptr (almost daily) |
| VERON | 14199,5 | 12.00 | 1 | 7 | | UiMOD | | | Unidentified Modulation, Noise |
| VERON | 14235,0 | 10.55 | 15 | 7 | | OTHR | FMCW | | radar |
| VERON | 14242,0 | 07.11 | 9 | 7 | RUS | UiPtr | F1B | | Ptr, |
| VERON | 14259,0 | 08.28 | 23 | 7 | | UiPTR | F1B | | Idling |
| VERON | 14264,0 | 16.18 | 7 | 7 | | OTHR | FMCW | | radar |
| VERON | 14275,0 | 09.36 | 3 | 7 | | OTHR | FMCW | | radar |
| VERON | 14300,0 | 14.14 | 6 | 7 | | UiLL | J3- | | tfc military |
| VERON | 21275,0 | 10.35 | 23 | 7 | | UiMUX | PSK2 | | 12 MPSK |
| VERON | 21399,0 | 08.30 | 29 | 7 | | UiMOD | | | Unidentified Modulation, Noise |
| VERON | 28010,0 | 11.05 | 15 | 7 | | CF | A1A | | beacon, every 3 minutes |
| VERON | 28020,0 | 14.21 | 9 | 7 | | FTN | A1A | | beacon |

The monitoring team of IARU Region 1

credits:

Wavecom Elektronik – Buelach – Switzerland

German BNetzA Konstanz

Many thanks for your interest!

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