



# Monitoring System

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The monthly newsletter for Region 1

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



### 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: N.N. ++ 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

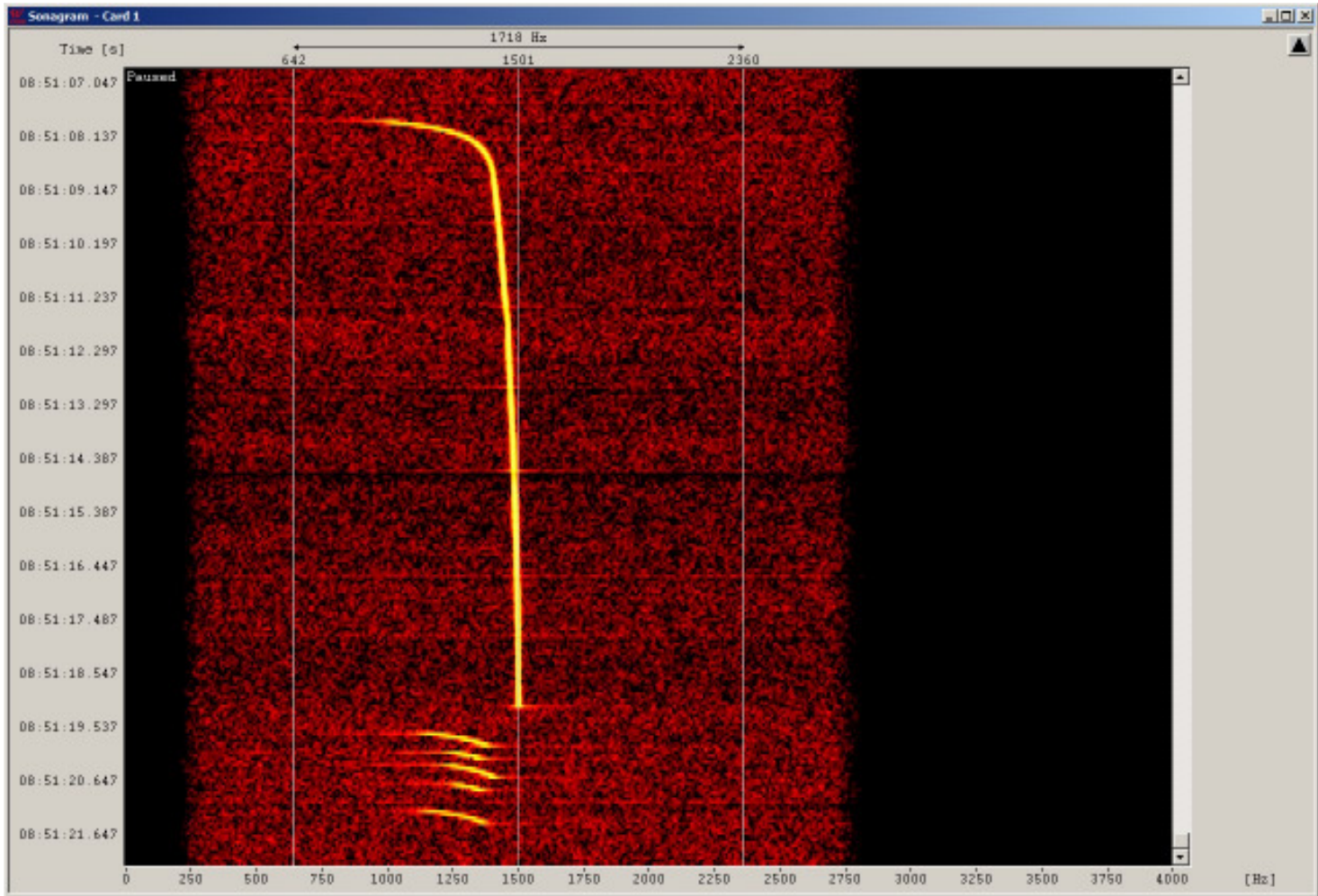
## 1. Fishery driftnet buoys on 28000 - 28500 kHz

We found many driftnet buoys between 28000 and 28500 kHz. Locations: Bay of Biscay and Adriatic Sea

**screenshot:** DK2OM on USB-mode with W-Code sonagram on 23 June at 0841 utc

You can see a rising carrier followed by the CW-ident "CT".

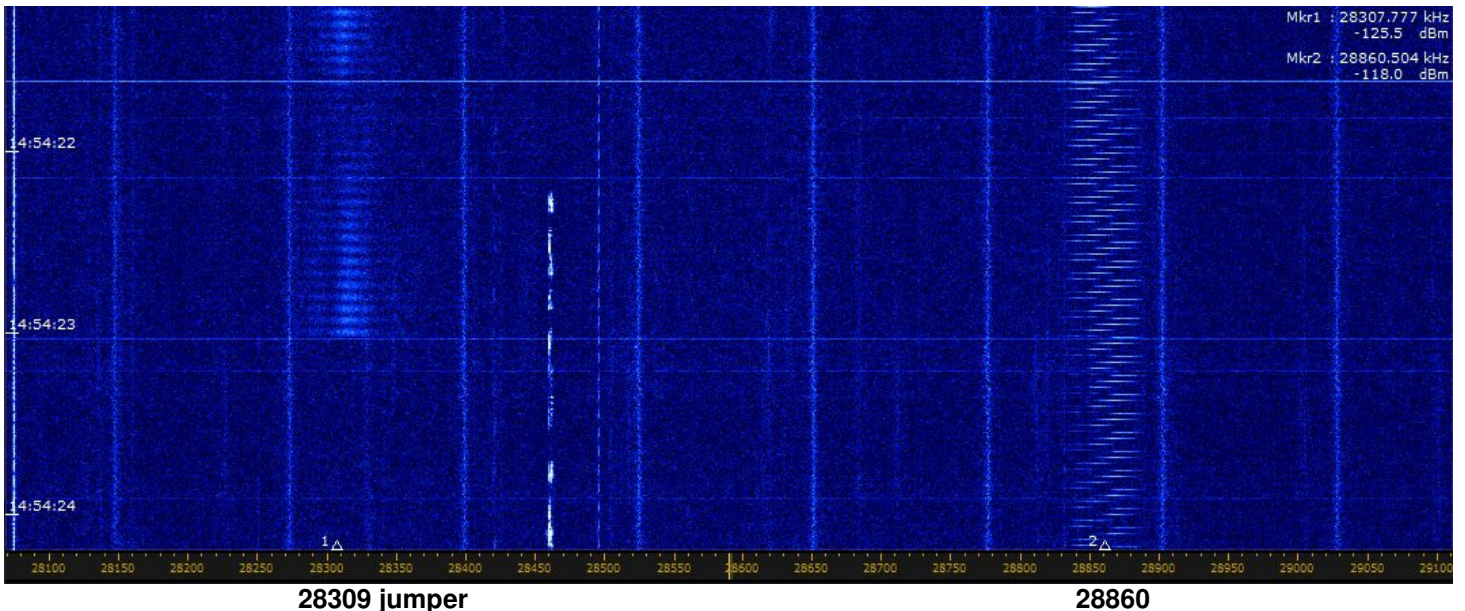
**More infos:** <http://www.iarums-r1.org/iarums/buoys.pdf>



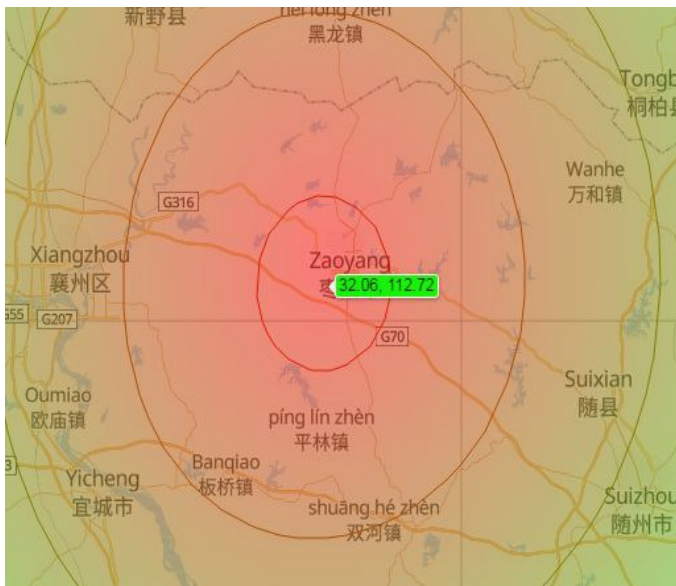
## 2. Iranian radar jumping 28000 – 29500 MHz

Iranian radar was active on 28860 kHz long lasting and another system was jumping the 28 MHz-band at the same time. Parameters: AMOP (amplitude modulation on puls) – jumper on 28309 -> 307 sps --- 28860 -> 150 and 313 sps

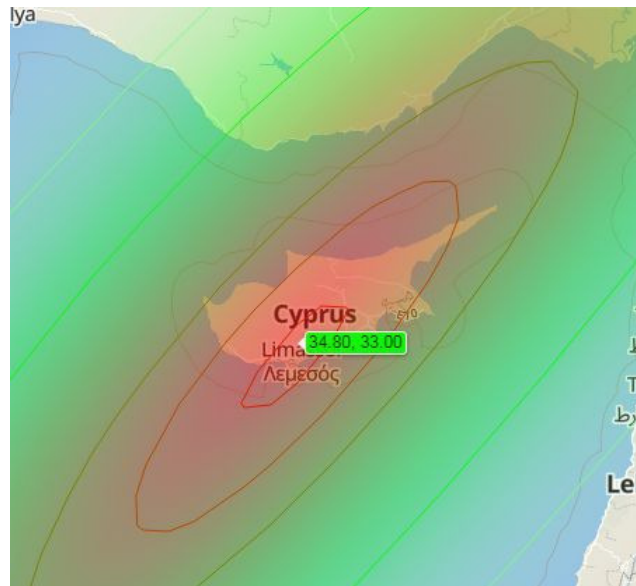
Perseus screenshot on 22 June at 1454utc



### 3. TDoA bearings



Chinese OTH radar – 14265 kHz – 30 sps - 08 June



UK OTH radar Cyprus – 21150 kHz – 50 sps – 06 June

#### 4. Iranian radars on 28860 and 29255 kHz

Iranian radars were audible in Europe under Sporadic-E conditions on 28860 and 29255 kHz at the same time.  
Date: 16 June

#### 5. Chinese OTH radars on 14 and 21 MHz

Chinese OTH radars were very active on 14 and 21 MHz on FMOP and mostly with jumping bursts.  
The signals could be heard in Europe every morning.

#### 6. Russian OTH radar Contayner on 14 MHz

We observed the Russian OTH radar Contayner on 14335 kHz center QRG. Parameters: FMOP, 40 sps, 12 kHz wide location: north of Penza – date: 08 June --- also on 14142 and on 14220 kHz on 13 June and other QRGs, too.

#### 7. CIS taxi on 28175 kHz

A CIS taxi service was audible again on 28175 kHz on F3E (FM). A woman and her husband talked about amateur-radio. They probably knew that their traffic was illegal.

#### 8. 14000.0 kHz - USB – Far East pirates as usual

Far East pirates were daily abusing 14000.0 kHz on USB at about 1300 utc and later. Location: Possibly Java-Sea.

#### 9. UK OTH radar Cyprus on 21 MHz

The UK OTH radar Cyprus was found on 21 MHz on several days on FMCW and 50 sps (often long lasting).

#### 10. F1B (FSK) on 14221.0 kHz every evening

The German PTT (BNetzA) Konstanz took further bearings and found out that the system was transmitting from Kazakhstan. Many thanks to BNetzA Konstanz for assistance and an official complaint!  
My TDoA DF showed the same bearing results.

#### 11. Russian MIL CW on 14 MHz-band

We observed a lot of Russian MIL CW on our 14 MHz-band. The traffic was encrypted as usual.

#### 12. Miscellaneous news:

**No present national IARUMS Region 1 coordinators: PZK – Poland and SSA - Sweden**

7140 and 7180 kHz – A3E – Radio Eritrea without QRM (German PTT informed)

14295.0 kHz – harmonic from Radio Tajik on 4765 kHz (no change regardless many complaints)

28000 – 28500 kHz – many fishery driftnet buoys and few GPS buoys

28000 – 29700 CIS taxi services – FM (F3E)

#### 13. Homepage IARU Region 1

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

Homepage IARUMS Region 1

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

Homepage IARUMS Region 2

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

Homepage IARUMS Region 3

<http://iau-r3.org/iau-region-3-monitoring-system-newsletter/>

Intruderlogger Region 1

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

ITU-Monitoring Reports

<http://www.itu.int/en/ITU-R/terrestrial/monitoring/Pages/Regular.aspx>

## Part 2: Detailed reports of the national Coordinators

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 – 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 | 1812,0       | vt   | vd  | 06 | RUS |        | USB<br>LSB   |            |              | 14 tones – hyperbolic radio navigation system – BRAS-3/RS-10 – Kaliningrad     |
| DK2OM | 1855,0       | vt   | vd  | 06 | I   | IQP    | USB          |            |              | San Benedetto Radio, weather reports - daily                                   |
| DK2OM | 1925,0       | vt   | vd  | 06 | I   | IPL    | USB          |            |              | Livorno Radio, weather reports - daily   |
| DK2OM | 3503,5       | vt   | dly | 06 | G   | no ITU | FSK8         | 125        | 1750         | ALE – British MIL Tascomm – shared band - legal!                               |
| DK2OM | 3525,0<br>RF | ---  | --  | 06 | F   |        | PSK4         | 75         | 5800         | LINK11-CLEW on both sidebands (5800 Hz wide) – area of Marseille – legal!      |
| DK2OM | 3527,0       | 2000 | dly | 06 | RUS |        | F1B          | 50         | 200          | Severomorsk - daily  |
| DK2OM | 3527,0       | 2038 | 03  | 06 | RUS |        | PSK2A        | 120        | 2600         | AT3004D – east of Smolensk – shared band!                                      |
| DK2OM | 3531,0       | 2020 | 09  | 06 | RUS | REA4   | N0N          |            |              | unclean carrier - RUS airforce Moscow, ident: full hour + 40 min - daily       |
| DK2OM | 3532,0       | ---  | --  | 06 | F   |        | PSK4         | 75         | 5800         | LINK11-CLEW on both sidebands (5800 Hz wide) – area of Brest – legal!          |
| DK2OM | 3550,0       | 0630 | dly | 06 | F   |        | A3E          |            |              | French amateurs not respecting bandplans – every morning                       |
| DK2OM | 3550,7       | ---  | --  | 06 | ISR |        | PSK4<br>PSK8 | 75<br>2400 | 2400<br>2400 | hybrid modem – ISR Navy – PSK4 parallel and PSK8 serial – shared band!         |
| DK2OM | 3553,8       | ady  | dly | 06 | TUR |        | PSK8A        | 2400       | 2400         | Stanag4285 – 600 bps long -TUR MIL - Ankara – daily, all day - legal operation |
| DK2OM | 3580,0<br>RF | 1800 | dly | 06 | TUR |        | PSK8A        | 2400       | 2400         | Stanag-4285 – 600 bps long – Ankara – shared band!                             |
| DK2OM | 3585,0       | ady  | dly | 06 | TWN | HLL    | F1C          |            | 800          | WX-fax Taiwan - 120 rpm, IOC 576 - daily, all day - legal!                     |
| DK2OM | 3585,0       | 2100 | 06  | 06 | E   |        | USB          |            |              | Spanish fishery  |
| DK2OM | 3586,0       | vt   | dly | 06 | HOL |        | PSK2A        | 40         | 40           | Amsterdam - daily  |
| DK2OM | 3592,0       | 2050 | 13  | 06 | G   |        | PSK8A        | 2400       | 2400         | Stanag-4285 – 600 bps long - area of Falmouth – shared band                    |
| DK2OM | 3622,5       | ady  | dly | 06 | J   | JMH    | F1C          |            | 800          | Tokyo Meteo – 120 rpm – IOC 576 – daily, all day - legal!                      |
| DK2OM | 3756,0       | 1800 | dly | 06 | RUS |        | USB          |            |              | RUS MIL – channel marker – Tuapse – East Black Sea – night QRG                 |
| DK2OM | 5350,0       | 2012 | 21  | 06 | RUS |        | FMOP         |            | 50k          | Russian coastal radar “Sunflower” – 43 sps – 5350 – 5400 kHz - Makhachkala     |

| DK2OM | kHz          | UTC  | DD  | MM | ITU | IDENT  | MODE        | BD   | SH/SP | DETAILS   |
|-------|--------------|------|-----|----|-----|--------|-------------|------|-------|---|
| DK2OM | 5350,0       | 1835 | 30  | 06 | E   |        | USB         |      | 2400  | 5350.0 – 5352.4 kHz - Spanish fishery splattering up – often in the evenings  |
| DK2OM | 5360,5       | ---  | --  | 06 | RUS |        | F1B         | 50   | 200   | Moscow - legal  |
| DK2OM | 5361,8<br>RF | ---  | --  | 06 | DNK | OUA15  | PSK8A       | 2400 | 2400  | Stanag-4285 – 600 bps long – assigned to Danish Navy Aarhus - legal – primary user !  |
| DK2OM | 7000,0       | vt   | dly | 06 | INS |        | LSB<br>USB  |      |       | Indonesian pirates - singing and playing music - daily  |
| DK2OM | 7005,0       | vt   | dly | 06 | INS |        | LSB         |      |       | Indonesian pirates  |
| DK2OM | 7008,0       | vt   | dly | 06 | RUS |        | FMOP        |      | 103k  | coastal radar „Sunflower“ – 43 sps – 6905 – 7008 kHz – east of Vladivostok  |
| DK2OM | 7010,0       | vt   | dly | 06 | INS |        | LSB         |      |       | Indonesian pirates  |
| DK2OM | 7015,0       | vt   | dly | 06 | INS |        | LSB         |      |       | Indonesian pirates – male and female voices   |
| DK2OM | 7020,0       | vt   | vd  | 06 | ALB |        | FSK8        | 125  | 1750  | ALE, “CS004A” “RS004D” “CS004” - daily  |
| DK2OM | 7025,0       | vt   | dly | 06 | INS |        | LSB         |      |       | Indonesian pirates singing  |
| DK2OM | 7035,0       | vt   | dly | 06 | INS |        | LSB         |      |       | Indonesian pirates singing  |
| DK2OM | 7036,0       | 1920 | 18  | 06 | RUS |        | PSK2A       | 120  | 2600  | AT3004D - Moscow  |
| DK2OM | 7039,2       | 1926 | 30  | 06 | RUS | „F“    | A1A         |      |       | Cluster beacon „F“ - Vladivostok RUS Navy - “RJS”   |
| DK2OM | 7039,3       | ---  | --  | 06 | RUS | „K“    | A1A         |      |       | Cluster beacon “K” Petropavlovsk Kamchatskiy - RUS Navy - Pacific fleet - “RCC”   |
| DK2OM | 7039,4       | 1923 | 09  | 06 | RUS | „M“    | A1A         |      |       | Cluster beacon „M“ – Magadan RUS Navy – „RTS“ - daily   |
| DK2OM | 7046,0       | vt   | 07  | 06 | CHN |        | PSK4A       | 60   | 2350  | PRC 30 tone modem - LSB mode - pilot tone 450 Hz  |
| DK2OM | 7055,0       | vt   | dly | 06 | UKR |        | LSB         |      |       | music and Russian voices  |
| DK2OM | 7088,8       | 0854 | 08  | 06 | S   | SL0FRO | A1A         |      |       | 7088.820 kHz - cw-trainee, Sweden - SL0FRO – often - just for info!   |
| DK2OM | 7089,8       | ---  | --  | 06 | TUR |        | PSK8        | 2400 | 2400  | Link11 - SLEW – aircraft ? west of Izmir  |
| DK2OM | 7108,0       | vt   | 07  | 06 | CHN |        | PSK4A       | 60   | 2350  | PRC 30 tone modem - LSB mode - pilot tone 450 Hz  |
| DK2OM | 7111,0       | 1300 | 02  | 06 | RUS |        | F1B         | 75   | 250   | Moscow  |
| DK2OM | 7111,0       | vt   | 14  | 06 | CHN |        | PSK4A       | 60   | 2350  | PRC 30 tone modem - LSB mode - pilot tone 450 Hz  |
| DK2OM | 7121,0       | vt   | 21  | 06 | CHN |        | PSK4A       | 60   | 2350  | PRC 30 tone modem - LSB mode - pilot tone 450 Hz  |
| DK2OM | 7137,0       | vt   | dly | 06 | TWN |        | FSK8<br>LSB | 125  | 1750  | ALE, MIL-188-141A, “FBABA” “FWKMB” “FXIBY” “FCPSL” “FHKHD” “FVIKE” “FHVWY” “FCUGP” “FDRRK” “FWIML” ”FBQCY” ”FCEAX” Taiwanese navy |
| DK2OM | 7140,0       | 1827 | dly | 06 | ERI |        | A3E         |      | 9k    | 7140.024 kHz - Radio Eritrea  |
| DK2OM | 7157,0       | 1708 | 25  | 06 | FEa |        | FMOP        |      | 32k   | Codar like ocean surface radar 2.6 sps – 7157 – 7189 kHz  |
| DK2OM | 7180,0       | 1526 | dly | 06 | ERI |        | A3E         |      | 9k    | 7180.022 kHz - Radio Eritrea  |
| DK2OM | 7193,0       | ---  | --  | 06 | RUS | RDL    | F1B         | 50   | 200   | CIS36-50 - Kaliningrad  |
| DK2OM | 7197,0       | vt   | dly | 06 | TUR |        | FSK8        | 125  | 1750  | ALE, „353013“ „334018“ „314013“ - Turkish Sivil Avunma – Turkish Civil Defense  |
| DK2OM | 7200,0       | 1528 | 01  | 06 | RUS |        | PSK2A       | 120  | 2600  | AT3004D – 7198.7 – 7201.3 kHz – Kaliningrad   |
| DK2OM | 10100,8      | ady  | dly | 06 | D   | DDK9   | F1B         | 50   | 450   | Baudot - German Weatherservice – legal!   |
| DK2OM | 10114,8      | 0640 | dly | 06 | RUS |        | F1B         | 100  | 1000  | CIS14 – Moscow  |
| DK2OM | 10130,0      | vt   | vd  | 06 |     |        | USB         |      |       | French amateurs not respecting bandplans  |
| DK2OM | 10144,0      | ady  | dly | 06 | D   | DK0WCY | A1A         |      |       | 10144.000 kHz - DK0WCY –  |

| DK2OM | kHz            | UTC         | DD         | MM        | ITU        | IDENT | MODE       | BD                           | SH/SP                           | DETAILS  |
|-------|----------------|-------------|------------|-----------|------------|-------|------------|------------------------------|---------------------------------|--|
|       |                |             |            |           |            |       |            |                              |                                 | <b>German aurora beacon – just for info!</b>   |
| DK2OM | 13903,0        | 0946        | 09         | 06        | CHN        |       | FMOP       |                              | 160k                            | Chinese wideband OTH radar – 10 sps – 13903 – 14063 kHz                              |
| DK2OM | <b>14000,0</b> | <b>1500</b> | <b>dly</b> | <b>06</b> | <b>FEa</b> |       | <b>USB</b> |                              |                                 | <b>Far East pirates – east of Indonesia - daily</b>                                  |
| DK2OM | <b>14000,0</b> | <b>vt</b>   | <b>vd</b>  | <b>06</b> | <b>B</b>   |       | <b>USB</b> |                              |                                 | <b>Brazilian pirates – Rio with North Brazil</b>                                     |
| DK2OM | 14008,0        | 0905        | 24         | 06        | RUS        |       | F1B        | 50                           | 250                             | Moscow   |
| DK2OM | 14100,0        | ---         | --         | 06        | F          |       | A1A        |                              |                                 | „051“ loop – daily 1658 – 1710 utc – area of Ternant                                 |
| DK2OM | 14101,0        | 1419        | 27         | 06        | CHN        |       | FMOP       |                              | 10k                             | Chinese OTH radar – 50 sps – 2.5 sec bursts – 14096 – 14106 kHz                      |
| DK2OM | 14104,0        | 0825        | 01         | 06        | FEa        |       | FMOP       |                              | 10k                             | Far East OTH radar – 30 sps  |
| DK2OM | 14116,0        | 1626        | 22         | 06        | RUS        |       | F1B        | 75                           | 250                             | Moscow   |
| DK2OM | 14140,0        | vt          | vd         | 06        | FEa        |       | FMOP       |                              | 10k                             | Far East OTH radar – 30 sps – 14140 – 14150 kHz – every 10 minutes – 40 sec blocks   |
| DK2OM | 14142,0        | 1550        | 11         | 06        | RUS        |       | FMOP       |                              | 12k                             | OTH radar Contayner - 40 sps – north of Penza – long lasting                         |
| DK2OM | 14147,0        | 1423        | 27         | 06        | CHN        |       | FMOP       |                              | 10k                             | Chinese OTH radar – 66.66 sps – 3.8 sec bursts – „foghorn“ - 14142 – 14152 kHz       |
| DK2OM | 14151,0        | 1328        | 20         | 06        | CHN        |       | FMOP       |                              | 160k                            | Chinese wideband OTH radar – 10 sps – 14151 – 14311 kHz                              |
| DK2OM | 14151,0        | 1555        | 27         | 06        | CHN        |       | FMOP       |                              | 10k                             | Chinese OTH radar – 66.66 sps – 3.8 sec bursts – „foghorn“ - 14151 – 14161 kHz       |
| DK2OM | 14152,0        | 1311        | 15         | 06        | CHN        |       | FMOP       |                              | 160k                            | Chinese wideband OTH radar – 10 sps – 14152 – 14312 kHz                              |
| DK2OM | 14165,0        | 0944        | 07         | 06        | CHN        |       | FMOP       |                              | 10k                             | OTH radar – 11 sps – 14165 – 14175 kHz – long lasting – area of Chengdu - daily      |
| DK2OM | 14170,0        | 1017        | 27         | 06        | CHN        |       | FMOP       |                              | 10k                             | Chinese OTH radar – 66.66 sps – 3.8 sec bursts – „foghorn“ - 14170 – 14180 - jumping |
| DK2OM | 14171,0        | 0756        | 10         | 06        | RUS        |       | PSK2A      | 120                          | 2600                            | AT3004D - Moscow   |
| DK2OM | 14172,0        | 1548        | 27         | 06        | CHN        |       | FMOP       |                              | 10k                             | Chinese OTH radar – 66.66 sps – 3.8 sec bursts – „foghorn“ - 14172 – 14182 kHz       |
| DK2OM | 14180,0        | 1305        | 11         | 06        | CHN        |       | FMOP       |                              | 160k                            | Chinese wideband OTH radar – 10 sps – 14180 – 14340 kHz                              |
| DK2OM | 14181,0        | 0853        | 12         | 06        | RUS        |       | FMOP       |                              | 12k                             | OTH radar Contayner - 40 sps – north of Penza – long lasting                         |
| DK2OM | 14184,0        | 1022        | 27         | 06        | CHN        |       | FMOP       |                              | 10k                             | Chinese OTH radar – 42 sps – 6 sec bursts – 14184 – 14194 kHz - jumping              |
| DK2OM | 14185,0        | 0945        | 11         | 06        | RUS        |       | FMOP       |                              | 12k                             | OTH radar Contayner - 40 sps – north of Penza – long lasting                         |
| DK2OM | 14186,0        | 0813        | 03         | 06        | RUS        |       | F1B        | 50                           | 500                             | much QSB   |
| DK2OM | 14186,0        | 1403        | 07         | 06        | RUS        |       | FMOP       |                              | 12k                             | OTH radar Contayner - 40 sps – north of Penza – long lasting                         |
| DK2OM | 14186,0        | 0813        | 09         | 06        | CHN        |       | FMOP       |                              | 160k                            | Chinese wideband OTH radar – 10 sps – 14186 – 14346 kHz                              |
| DK2OM | 14192,0        | 0800        | 01         | 06        | RUS        |       | F1B        | 50<br>75<br>50<br>100<br>100 | 500<br>500<br>200<br>500<br>200 | RUS navy Kaliningrad – often with 50 Bd and 200 Hz shift                             |
| DK2OM | 14200,0        | 1416        | 27         | 06        | CHN        |       | FMOP       |                              | 10k                             | Chinese OTH radar – 66.66 sps – 3.8 sec bursts – „foghorn“ - 14195 – 14205 kHz       |
| DK2OM | 14202,0        | 0916        | 24         | 06        | CHN        |       | FMOP       |                              | 160k                            | Chinese wideband OTH radar – 10 sps – 14202 – 14362 kHz                              |
| DK2OM | 14220,0        | 0830        | 13         | 06        | RUS        |       | FMOP       |                              | 12k                             | OTH radar Contayner - 40 sps – north of Penza – together with                        |

| DK2OM | kHz            | UTC         | DD         | MM        | ITU        | IDENT      | MODE          | BD         | SH/SP       | DETAILS  |
|-------|----------------|-------------|------------|-----------|------------|------------|---------------|------------|-------------|--|
|       |                |             |            |           |            |            |               |            |             | 14142 kHz  |
| DK2OM | 14221,0        | 2046        | 09         | 06        | KAZ        |            | F1B           | 50         | 200         | area of Baineu – West Kazakhstan - mostly idling - every evening   |
| DK2OM | 14230,0        | 0815        | 03         | 06        | CHN        |            | FMOP          |            | 10k         | Chinese OTH radar – 83 sps – 3 sec bursts  |
| DK2OM | 14238,4        | 1013        | 27         | 06        |            |            | F1B           | 600        | 600         | DPRK-FSK 600   |
| DK2OM | 14242,0        | 0737        | 08         | 06        | RUS        |            | PSK2A         | 120        | 2600        | AT3004D - Moscow   |
| DK2OM | 14243,0        | 0952        | 09         | 06        | CHN        |            | FMOP          |            | 160k        | Chinese wideband OTH radar – 10 sps – 14243 – 14403 kHz  |
| DK2OM | 14258,0        | 0935        | 14         | 06        | RUS        |            | FMOP          |            | 12k         | OTH radar Contayner - 40 sps – north of Penza  |
| DK2OM | 14260,0        | 1643        | 11         | 06        | CHN        |            | FMOP          |            | 160k        | Chinese wideband OTH radar – 10 sps – 14260 – 14420 kHz – area of Wuhan  |
| DK2OM | 14265,0        | 0822        | 08         | 06        | CHN        |            | FMOP          |            | 10k         | Chinese OTH radar – 30 sps – 14260 – 14270 kHz – every 11 minutes – 50 - 70 sec blocks – daily – area of Zaoyang   |
| DK2OM | 14272,0        | 1030        | 20         | 06        | RUS        |            | F1B           | 75         | 500         | Moscow   |
| DK2OM | <b>14280,0</b> | <b>---</b>  | <b>--</b>  | <b>06</b> | <b>UKR</b> |            | <b>A3E</b>    |            |             | <b>female voice with encrypted msgs – figures – “SZRU” = Foreign Intelligence Service of Ukraine in Rivne</b>  |
| DK2OM | 14282,0        | 0817        | 03         | 06        | CHN        |            | FMOP          |            | 10k         | Chinese OTH radar – 66.66 sps – 3.8 sec bursts – „foghorn“ - jumping   |
| DK2OM | 14292,0        | 1305        | 15         | 06        | RUS        | 9YBZ       | A1A           |            |             | encrypted CW – „XIM5“ – RUS mil  |
| DK2OM | <b>14295,2</b> | <b>ady</b>  | <b>dly</b> | <b>06</b> | <b>TJK</b> |            | <b>A3E/BC</b> |            | <b>9k</b>   | <b>14295.163 kHz -3<sup>rd</sup> from Radio Tajik on 4765 kHz – daily, all day</b>   |
| DK2OM | 14298,0        | 0843        | 05         | 06        | FEa        |            | FMOP          |            | 10k         | Far East OTH radar – 40 sps  |
| DK2OM | 14317,0        | 0945        | 09         | 06        |            |            | A1A           |            |             | encrypted CW   |
| DK2OM | 14333,0        | 1252        | 08         | 06        | RUS        |            | FMOP          |            | 12k         | OTH radar Contayner - 40 sps – north of Penza – long lasting   |
| DK2OM | 14348,5        | vt          | dly        | 06        | THA        | HS0ZEA     | A1A           |            |             | HS0ZEA beacon – 14348.488 kHz - every 5 minutes – daily - just for info!   |
| DK2OM | <b>18080,0</b> | <b>0625</b> | <b>dly</b> | <b>06</b> | <b>TWN</b> |            | <b>A3E/BC</b> |            |             | <b>Sound of Hope – Taiwan and Chinese BC jammer – daily at 06 utc and later</b>  |
| DK2OM | 18107,0        | <b>---</b>  | <b>--</b>  | <b>06</b> | <b>RUS</b> | <b>RDL</b> | <b>F1B</b>    | <b>50</b>  | <b>200</b>  | <b>CIS-50-200 - Moscow – idle and traffic – daily - Russian navy – shared band!</b>  |
| DK2OM | 18150,0        | <b>---</b>  | <b>--</b>  | <b>06</b> | <b>RUS</b> |            | <b>F1B</b>    | <b>100</b> | <b>1000</b> | <b>harmonic from 9075 (100 Bd, 500 Hz) - Kaliningrad</b>   |
| DK2OM | <b>21000,0</b> | <b>---</b>  | <b>--</b>  | <b>06</b> | <b>B</b>   |            | <b>USB</b>    |            |             | <b>Brazilian pirates – Rio de Janeiro with North Brazil – very often</b>   |
| DK2OM | 21030,0        | 0758        | 20         | 06        | CYP        |            | FMCW          |            | 20k         | UK OTH radar – Cyprus – 50 sps   |
| DK2OM | 21093,0        | 0954        | 11         | 06        | CHN        |            | FMOP          |            | 160k        | Chinese wideband OTH radar – 10 sps – 21093 – 21253 kHz  |
| DK2OM | 21101,0        | 0951        | 11         | 06        | CHN        |            | FMOP          |            | 160k        | Chinese wideband OTH radar – 10 sps – 21101 – 21261 kHz  |
| DK2OM | 21127,0        | 0810        | 28         | 06        | CHN        |            | FMOP          |            | 10k         | Chinese OTH radar – 50 sps – 5 sec bursts - jumping  |
| DK2OM | 21130,0        | 1050        | 13         | 06        | CYP        |            | FMCW          |            | 20k         | UK OTH radar – Cyprus – 50 sps   |
| DK2OM | 21130,0        | 0820        | 20         | 06        | CYP        |            | FMCW          |            | 20k         | UK OTH radar – Cyprus – 50 sps   |
| DK2OM | 21145,0        | vt          | dly        | 06        | 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 | kHz     | UTC  | DD | MM | ITU   | IDENT  | MODE      | BD | SH/SP | DETAILS   |
|-------|---------|------|----|----|-------|--------|-----------|----|-------|---|
| DK2OM | 21150,0 | 0934 | 06 | 06 | CYP   |        | FMCW      |    | 20k   | UK OTH radar Cyprus – long lasting  |
| DK2OM | 21213,0 | 0842 | 10 | 06 | CHN   |        | FMOP      |    | 10k   | Chinese OTH radar – 66.66 sps – 3.8 sec bursts – „foghorn“ - jumping  |
| DK2OM | 21230,0 | 0912 | 21 | 06 | CYP   |        | FMCW      |    | 20k   | UK OTH radar – Cyprus – 50 sps  |
| DK2OM | 21234,0 | 0826 | 10 | 06 | CHN   |        | FMOP      |    | 160k  | Chinese wideband OTH radar – 10 sps – 21234 – 21394 kHz   |
| DK2OM | 21265,0 | 0901 | 30 | 06 | CHN   |        | FMOP      |    | 10k   | Chinese OTH radar – 21260 – 21270 - 66.66 sps – 3.8 sec bursts – „foghorn“ - - jumping                                |
| DK2OM | 21283,0 | 0840 | 29 | 06 | CHN   |        | FMOP      |    | 10k   | Chinese OTH radar – 66.66 sps – 3.8 sec bursts – „foghorn“ - jumping  |
| DK2OM | 21287,0 | 0910 | 15 | 06 | CHN   |        | FMOP      |    | 160k  | Chinese wideband OTH radar – 10 sps – 21287 – 21447 kHz   |
| DK2OM | 21330,0 | 1554 | 23 | 06 | CYP   |        | FMCW      |    | 20k   | UK OTH radar – Cyprus – 50 sps  |
| DK2OM | 21438,0 | 1530 | 01 | 06 | RUS   | RCV    | A1A       |    |       | RIP90 de RCV - RUS Navy Sevastopol - often  |
| DK2OM | 21446,0 | ---  | -- | 06 | THA   | HS0ZEA | A1A       |    |       | HS0ZEA beacon – every 5 minutes - just for info!  |
| DK2OM | 25000,0 | ---  | -- | 06 | FIN   |        | A3E       |    |       | time signal Helsinki – just for info – carrier on 25000 – dots on 25001 and 24999 – under Es conditions audible in DL |
| DK2OM | 28000,0 | ---  | -- | 05 | B     |        | A3E       |    |       | <b>Brazilian CBers – 28000 – 28325 – daily, all day - no change</b>   |
| DK2OM | 28000,0 | vt   | vd | 06 | CIS   |        | F3E       |    |       | <b>28000 – 29700 numerous CIS taxi nets – no change</b>   |
| DK2OM | 28015,0 | 0911 | 20 | 06 | E     |        | A3E       |    |       | Spanish CBers   |
| DK2OM | 28025,0 | 1437 | 22 | 06 | IRN   |        | AM pulse? |    | 50k   | Iranian radar - 307 sps - jumping   |
| DK2OM | 28035,0 | 1016 | 18 | 06 | CIS   |        | F3E       |    |       | CIS taxi  |
| DK2OM | 28065,1 | 1922 | 12 | 06 | POR ? |        | F1B       | 51 | 300   | F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoy  |
| DK2OM | 28085,1 | 1900 | 19 | 06 | POR ? |        | F1B       | 51 | 300   | F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoy  |
| DK2OM | 28168,0 | 1439 | 22 | 06 | IRN   |        | AM pulse? |    | 50k   | Iranian radar - 307 sps - jumping   |
| DK2OM | 28175,0 | 0840 | 16 | 06 | CIS   |        | F3E       |    |       | CIS taxi – base station and taxi  |
| DK2OM | 28205,0 | 1710 | 14 | 06 | I     |        | A3E       |    |       | Italian CBers   |
| DK2OM | 28245,0 | 0920 | 20 | 06 | E     |        | A3E       |    |       | Spanish CBers   |
| DK2OM | 28255,0 | 1440 | 22 | 06 | IRN   |        | AM pulse? |    | 50k   | Iranian radar - 307 sps - jumping   |
| DK2OM | 28265,0 | 1020 | 21 | 06 | CIS   |        | F3E       |    |       | CIS taxi – base station and taxi  |
| DK2OM | 28275,1 | 1535 | 18 | 06 | POR ? |        | F1B       | 51 | 300   | F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoy  |
| DK2OM | 28305,0 | 112  | 18 | 06 | E     |        | F3E       |    |       | Spanish CBers – long lasting  |
| DK2OM | 28305,0 | 0929 | 20 | 06 | CIS   |        | F3E       |    |       | CIS taxi – base station and taxi  |
| DK2OM | 28309,0 | 1441 | 22 | 06 | IRN   |        | AM pulse? |    | 50k   | Iranian radar - 307 sps - jumping   |
| DK2OM | 28310,0 | 1445 | 22 | 06 | IRN   |        | AM pulse? |    | 50k   | Iranian radar - 307 sps - jumping   |
| DK2OM | 28330,0 | 0940 | 19 | 06 | CYP   |        | FMCW      |    | 20k   | UK OTH radar – Cyprus – 50 sps  |
| DK2OM | 28330,0 | 1445 | 22 | 06 | IRN   |        | AM pulse? |    | 50k   | Iranian radar - 307 sps - jumping   |
| DK2OM | 28860,0 | 1553 | 01 | 06 | IRN   |        | AM pulse? |    | 40k   | Iranian radar - 28837 – 28883 kHz – 150 sps – 313 sps alternating – North Iran  |
| DK2OM | 29255,0 | 0758 | 16 | 06 | IRN   |        | AM pulse? |    | 55k   | Iranian radar - 29222 – 29277 kHz – 307 sps – 870 sps alternating   |



| DK2OM | kHz     | UTC  | DD | MM | ITU | IDENT | MODE      | BD | SH/SP | DETAILS                           |
|-------|---------|------|----|----|-----|-------|-----------|----|-------|-----------------------------------|
| DK2OM | 29320,0 | 1448 | 22 | 06 | IRN |       | AM pulse? |    | 50k   | Iranian radar - 307 sps - jumping |
| DK2OM | 29685,0 | 0800 | 17 | 06 | I   |       | VFT       |    | 2300  | Italian MIL – Brescia - daily     |
| DK2OM | 29699,5 | 0800 | 17 | 06 | I   |       | VFT       |    | 1600  | Italian MIL – Brescia - daily     |

## IRTS – Ireland – EI3GYB (Michael)

| SOC  | kHz     | UTC  | DD | MM | ITU       | IDENT | MODE | DETAILS  |  |  |
|------|---------|------|----|----|-----------|-------|------|--|--|--|
| IRTS | 1920    | 2150 | 02 | 06 | POR or MM |       | USB  | 2 Portuguese fishermen, very strong signals.   |  |  |
| IRTS | 3550    | 0600 | 04 | 06 | F         |       | AM   | Group of French HAMs violating the band plan.  |  |  |
| IRTS | 3590    | 0605 | 04 | 06 | F         |       | AM   | Second group of French HAMs violating the band plan.   |  |  |
| IRTS | 3752.5  | 1815 | 22 | 06 | E or MM   |       | USB  | 2 Spanish fishermen with monster signals. Loud motor noise from both ships.  |  |  |
| IRTS | 5330    | 0745 | 16 | 06 | F or MM   |       | USB  | 2 French fishermen. Huge signals. Splattering down to 5330.5 kHz- an Irish 5 MHz spot frequency.   |  |  |
| IRTS | 5368    | 1955 | 28 | 06 | RUS/C HN  |       | FMOP | Radar from 5368 to 5412 kHz. Heard very often in the evening and hours of darkness. Makes any 5 Mhz contact miserable.   |  |  |
| IRTS | 5375    | 0855 | 24 | 06 | POR or MM |       | USB  | 2 Portuguese fishermen, strong clear signals.  |  |  |
| IRTS | 5400    | 0610 | 14 | 06 | E or MM   |       | USB  | Group of Spanish fishermen. Heard also: 14 <sup>th</sup> at 2305z. 15 <sup>th</sup> at 1935z. 18 <sup>th</sup> at 1900z. 24 <sup>th</sup> at 0600. 25 <sup>th</sup> at 1340z. 30 <sup>th</sup> at 0910z. Always very good signals.       |  |  |
| IRTS | 5400    | 0745 | 15 | 06 | UK        |       | AM   | Intermodulation or harmonic product from KBS Korean language service via Woofferton relay station on 9860kHz. Heard on several days of the month.  |  |  |
| IRTS | 5398.5  | 1515 | 30 | 06 | UK        |       | CW   | D-QRM targeted at the RSGB news. Someone does continuous keying. Quite a regular event now. The culprit is somewhere in the UK. Anyone for a fox hunt? Sunday afternoon around 4o' clock local time seems to be the perfect opportunity! |  |  |
| IRTS | 5405    | 1100 | 20 | 06 | POR or MM |       | USB  | Portuguese fishermen. Medium strength signal. Also heard on 21 <sup>st</sup> at 1520z.   |  |  |
| IRTS | 7055    | 1200 | 09 | 06 | RUS/UKR   |       | LSB  | Russian-Ukrainian radio war. Heard less often this month.  |  |  |
| IRTS | 7060    | 0615 | 24 | 06 | E or MM   |       | USB  | 2 Spanish fishermen with good signals.   |  |  |
| IRTS | 7113    | 0820 | 24 | 06 |           |       |      | Huge digital signal  |  |  |
| IRTS | 7140    | 1639 | 30 | 06 | ERI       |       | AM   | Radio Eritrea. Weak signal. Heard a few times during the month.  |  |  |
| IRTS | 7163    | 1810 | 13 | 06 |           |       |      | Big digital signal   |  |  |
| IRTS | 7180    | 1825 | 13 | 06 | ERI       |       | AM   | Radio Eritrea, strong. Heard on several days of the month.   |  |  |
| IRTS | 7180    | 1150 | 22 | 06 |           |       |      | Big digital signal.  |  |  |
| IRTS | 10109   | 1210 | 03 | 06 |           |       | FMOP | Radar from 10109 to 10130 kHz.   |  |  |
| IRTS | 14103   | 1750 | 13 | 06 | USA       |       | USB  | Clicking sound- 1 click per second. Ends at 2115z. Very strong signal.   |  |  |
| IRTS | 14108   | 0850 | 25 | 06 |           |       | FMOP | Radar from 14108 to 14156 kHz.   |  |  |
| IRTS | 14159.5 | 1020 | 24 | 06 |           |       | F1B  | Another digital signal.  |  |  |
| IRTS | 14191   | 0845 | 01 | 06 | RUS       |       | F1B  | Russian navy, Kaliningrad. All hours of daylight every single day.   |  |  |
| IRTS | 14239.5 | 0830 | 24 | 06 |           |       | F1B  | Strong digital signal.   |  |  |
| IRTS | 14252   | 1610 | 30 | 06 |           |       | USB  | D-QRM against a South Sudanese station. Persistent and strong.   |  |  |
| IRTS | 14259   | 1500 | 11 | 06 |           |       | FMOP | Radar from 14259 to 14269 kHz.   |  |  |
| IRTS | 14295   | 1635 | 15 | 06 | TJK       |       | AM   | Radio Tajikistan, 3 <sup>rd</sup> harmonic. Heard with weak signal many times.   |  |  |
| IRTS | 14346   | 0910 | 11 | 06 |           |       | FMOP | Radar from 14346 to 14366 kHz.   |  |  |

| SOC  | kHz   | UTC  | DD | MM | ITU | IDENT | MODE | DETAILS  |  |
|------|-------|------|----|----|-----|-------|------|--|--|
| IRTS | 18070 | 0705 | 19 | 06 |     |       | FMOP | Radar from 18070 to 18079 kHz.                         |  |
| IRTS | 18080 | 0745 | 11 | 06 | TWN |       | AM   | Sound of Hope, Taipei. Heard daily with a weak signal. |  |
| IRTS | 28410 | 1205 | 20 | 06 | IRN |       | FMCW | Radar from 28410 to 28460 kHz.                         |  |
| IRTS | 28835 | 0905 | 10 | 06 | IRN |       | FMCW | Radar from 28835 to 28880 kHz.                         |  |
| IRTS | 29049 | 1000 | 19 | 06 |     |       | F1B  | Heard nearly all day during a big sporadic e opening.  |  |

### KARS – Kuwait – 9K2RR (Faisal)

### MRASZ – Hungary - HA7PL (Laci)

| SOC   | kHz     | UTC  | DD | MM | ITU | IDENT | MODE | SH  | DETAILS                |
|-------|---------|------|----|----|-----|-------|------|-----|------------------------|
| MRASZ | 3527,0  | 1916 | 3  | 6  |     |       | PSK2 |     | AT3004D                |
| MRASZ | 3558,0  | 1851 | 25 | 6  |     |       | PSK2 |     | AT3004D                |
| MRASZ | 3597,0  | 1915 | 3  | 6  |     |       | PSK2 |     | AT3004D                |
| MRASZ | 3650,0  | 1912 | 3  | 6  |     |       | A3E  |     | unidentified           |
| MRASZ | 3650,0  | 1924 | 13 | 6  |     |       | A3E  |     | unidentified           |
| MRASZ | 3758,0  | 1954 | 18 | 6  |     |       | PSK2 |     | AT3004D                |
| MRASZ | 3785,0  | 1848 | 25 | 6  |     |       | PSK2 |     | AT3004D                |
| MRASZ | 7036,0  | 1953 | 18 | 6  |     |       | PSK2 |     | AT3004D                |
| MRASZ | 7055,0  | 1929 | 28 | 6  |     |       | LSB  |     | chaos                  |
| MRASZ | 7140,0  | 1717 | 25 | 6  | ERI |       | A3E  |     | R. Eritrea             |
| MRASZ | 7140,0  | 1813 | 29 | 6  | ERI |       | A3E  |     | R. Eritrea             |
| MRASZ | 7180,0  | 1717 | 25 | 6  | ERI |       | A3E  |     | R. Eritrea             |
| MRASZ | 7180,0  | 1814 | 29 | 6  | ERI |       | A3E  |     | R. Eritrea             |
| MRASZ | 10072,0 | 0939 | 13 | 6  |     |       | OTHR |     | 10010-10124 kHz        |
| MRASZ | 10108,0 | 0806 | 15 | 6  |     |       | F1A  | 200 | "28045 82775 65248" 5f |
| MRASZ | 10108,0 | 0710 | 29 | 6  |     |       | F1B  | 200 |                        |
| MRASZ | 10118,0 | 1755 | 25 | 6  |     |       | F1B  | 250 |                        |
| MRASZ | 14192,0 | 0858 | 7  | 6  | RUS |       | F1B  | 200 | Rus. Navy, Kaliningrad |
| MRASZ | 14192,0 | 1530 | 11 | 6  | RUS |       | F1B  | 200 | Rus. Navy, Kaliningrad |
| MRASZ | 14192,0 | 0836 | 13 | 6  | RUS |       | F1B  | 200 | Rus. Navy, Kaliningrad |
| MRASZ | 14192,0 | 0804 | 15 | 6  | RUS |       | F1B  | 200 | Rus. Navy, Kaliningrad |
| MRASZ | 14192,0 | 1905 | 17 | 6  | RUS |       | F1B  | 200 | Rus. Navy, Kaliningrad |
| MRASZ | 14192,0 | 1853 | 20 | 6  | RUS |       | F1B  | 200 | Rus. Navy, Kaliningrad |
| MRASZ | 14192,0 | 0709 | 29 | 6  | RUS |       | F1B  | 200 | Rus. Navy, Kaliningrad |
| MRASZ | 14192,0 | 1810 | 29 | 6  | RUS |       | F1B  | 200 | Rus. Navy, Kaliningrad |
| MRASZ | 14240,0 | 0549 | 14 | 6  |     |       | F1B  | 250 |                        |
| MRASZ | 14240,0 | 1318 | 15 | 6  |     |       | OTHR |     | 14230-14250 kHz        |
| MRASZ | 14333,0 | 0549 | 14 | 6  |     |       | OTHR |     | 14325-14341 kHz        |
| MRASZ | 18109,0 | 0850 | 13 | 6  |     |       | PSK2 |     | AT3004D                |

### OEVSV – Austria – OE3GSA (Gerd)

### REF – France – F5MIU (Francis)

not available

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

| SOC | kHz         | UTC          | DD        | MM        | ITU      | IDENT | MODE       | BD | SH | DETAILS                                   |
|-----|-------------|--------------|-----------|-----------|----------|-------|------------|----|----|---|
| REP | 3500        | 21.57        | 09        | 06        | E        |       | J3E U      |    |    | fishery                                   |
| REP | 3520        | 21.51        | 10        | 06        | F        |       | J3E-U      |    |    | fishery                                   |
| REP | 3550        | 07.17        | 01        | 06        | POR      |       | J3E-U      |    |    | fishery                                   |
| REP | <b>3550</b> | <b>06.35</b> | <b>30</b> | <b>06</b> | <b>F</b> |       | <b>A3E</b> |    |    | <b>French amateurs ignoring Bandplans</b> |
| REP | 3552        | 19.32        | 03        | 06        |          |       | PSK-4      |    |    | Stanag 4285 NATO, shared band             |

| SOC | kHz     | UTC   | DD | MM | ITU | IDENT | MODE   | BD  | SH  | DETAILS   |
|-----|---------|-------|----|----|-----|-------|--------|-----|-----|---|
| REP | 3580    | 06.34 | 30 | 06 | F   |       | A3E    |     |     | French amateurs ignoring Bandplans                                    |
| REP | 3585    | 21.17 | 09 | 06 | E   |       | J3E U  |     |     | fishery CRY2000 voice scramble  |
| REP | 5354    | 21.42 | 05 | 06 |     |       | PSK    |     |     | NATO Link11 CLEW DSB, just FYI as shared band                         |
| REP | 5355    | 08.00 | 12 | 06 | IRL |       | J3E-U  |     |     | fishery   |
| REP | 7010    | 10.02 | 21 | 06 | RUS |       | PSK2   | 120 | 3k  | AT3004D Modem, encrypted  |
| REP | 7010    | 08.44 | 09 | 06 | MRC |       | J3E-U  |     |     | Fishery, Arabic/French language                                       |
| REP | 7025    | 07.16 | 09 | 06 | B   |       | J3E-U  |     |     | fishery, daily  |
| REP | 7070    | 18.45 | 04 | 06 | GEO | 524   | MFSK-8 |     |     | Mil Std 188-141A Ale  |
| REP | 7140    | 18.40 | 18 | 06 | ETH |       | A3E    |     |     | Radio of the Broad Masses of Eritreia, Ethiopia, illegal broadcasting |
| REP | 7195    | 12.00 | 20 | 06 | TUR | 30713 | MFSK8  | 125 | 3k  | Mil   |
| REP | 10101   | 08.34 | 26 | 06 | MRC |       | J3E U  |     |     | fishery   |
| REP | 10120   | 09.19 | 17 | 06 | MRC |       | J3E-U  |     |     | fishery   |
| REP | 10125   | 08.35 | 18 | 06 | E   |       | J3E-U  |     |     | Fishery   |
| REP | 14025   | 07.50 | 05 | 06 | CHN |       | FMOP   | 20  | 10  | OTH   |
| REP | 14141   | 11.00 | 04 | 06 |     |       | F1B    | 75  | 500 | Unis F1B encrypted  |
| REP | 14192   | 07.59 | 01 | 06 | RUS |       | F1B    | 50  | 200 | Navy, daily   |
| REP | 14200   | 16.00 | 09 | 06 | RUS |       | FSK    | 50  | 200 | Navy calling  |
| REP | 14230   | 07.37 | 03 | 06 | CHN |       | FMOP   | 83  |     | Burst mode Chinese OTH radar  |
| REP | 18080   | 12.37 | 14 | 06 | CYP |       | FMCW   | 50  | 20k | Cyprus OTH radar  |
| REP | 21000   | 15.05 | 16 | 06 | MRC |       | J3E-U  |     |     | fishery   |
| REP | 28015   | 09.18 | 20 | 06 | RUS |       | F3E    |     |     | Russian language female taxi dispatcher                               |
| REP | 28016,5 | 09.17 | 20 | 06 |     |       | F3E    |     |     | Unid PACTOR-1 sellcall  |
| REP | 28055   | 12.59 | 12 | 06 |     | COM   | A1A    |     |     | CW fishery buoy   |
| REP | 28100   | 11.10 | 04 | 06 | E   |       | J3E-U  |     |     | CB  |
| REP | 28125   | 09.19 | 20 | 06 | RUS |       | F3E    |     |     | Russian language taxi dispatcher                                      |
| REP | 28265   | 10.01 | 20 | 06 | RUS |       | F3E    |     |     | Russian language taxi dispatcher                                      |
| REP | 28475   | 20.37 | 19 | 06 | G   |       | F3E    |     |     | UK CB rs FM mode  |
| REP | 28725   | 10.22 | 04 | 06 | RUS |       | F3E    |     |     | Taxis dispatchers   |
| REP | 28860   | 09.59 | 12 | 06 | IRN |       | FMOP   |     |     | Iranian OTH radar, daily  |
| REP | 29250   | 17.59 | 11 | 06 |     |       | F1B    | 81  | 180 | Datawell GPS buoy   |
| REP | 28xxx   | daily |    |    |     |       | F1B    |     |     | Enagal GPS buoys  |
| REP | 28xxx   | daily |    |    |     |       | A1A    |     |     | Fishing net buoy CW   |
| REP | 28xxx   | daily |    |    | RUS |       | F3E    |     |     | Russian language taxi dispatchers                                     |

### RSGB – United Kingdom – G4DYA (Richard)

| SOC  | kHz     | UTC  | DD  | MM | ITU | IDENT | MODE | BD  | SH/BW | DETAILS                                       |
|------|---------|------|-----|----|-----|-------|------|-----|-------|---|
| RSGB | 5262.0  | 1610 | 16  | 06 |     |       | J7D  |     |       | USB 5360.0 / CIS-12<br>For info: Primary user |
| RSGB | 7008.0  | 1747 | 14  | 06 |     |       | F1B  | 250 |       |   |
| RSGB | 7010.0  | 1735 | 18  | 06 |     |       | J7D  |     | 2K70E | USB 7008.0 / CIS-12                           |
| RSGB | 7018.0  | 2144 | 17  | 06 |     |       | J7D  |     | 2K70E | USB 7016.0 / CIS-12 IMD spreading             |
| RSGB | 7020.0  | 0735 | 14  | 06 |     |       | F1B  | 250 |       |   |
| RSGB | 7022.0  | 1749 | 14  | 06 |     |       | J7D  |     | 2K70E | USB 7020.0 / CIS-12                           |
| RSGB | 7034.0  | 1738 | 18  | 06 |     |       | F1B  | 250 |       |   |
| RSGB | 7038.5  | ady  | dly | 06 | CZE | OK0EU | A1A  |     |       | For info: QRP propagation beacon              |
| RSGB | 7075.0  | 1522 | 18  | 06 |     |       | J3E  |     |       | USB unidentified voice                        |
| RSGB | 7140.02 | vt   | vd  | 06 | ERI | VoBM1 | A3E  |     |       | BC  |
| RSGB | 7180.02 | vt   | vd  | 06 | ERI | VoBM2 | A3E  |     |       | BC  |
| RSGB | 10100.8 | ady  | dly | 06 | D   | DDK9  | F1B  | 50  | 450   | For info: Primary user: WX broadcast          |

| SOC  | kHz     | UTC  | DD                        | MM | ITU | IDENT | MODE | BD | SH/BW | DETAILS              |
|------|---------|------|---------------------------|----|-----|-------|------|----|-------|----------------------|
| RSGB | 14192.0 | vt   | 01-09,<br>12,14,<br>16-30 | 06 |     |       | F1B  |    | 200   |                      |
| RSGB | 14242.0 | 0737 | 08                        | 06 |     |       | J7D  |    | 2K70E | USB 14240.0 / CIS-12 |
| RSGB | 21150.0 | 0844 | 06                        | 06 |     |       | P0N  |    | 20K0E |                      |

### RSK – Kenya – 5Z4BV (Kamweti)

| Soc | kHz    | UTC  | dd     | mm | ITU                | IDENT | MODE  | Shift | Details   |
|-----|--------|------|--------|----|--------------------|-------|-------|-------|---|
| RSK | 7018   | a.m. | occ.   | 6  | E.<br>Africa?      | ?     | J3E-u |       | Kiswahili/vernacular msg net                                      |
| RSK | 7027   | 1503 | 20     | 6  | Central<br>Africa? | ?     | J3E-u |       | French/vernacular msg net   |
| RSK | 7065   | v.t. | 5      | 6  | Kenya              | ?     | PSK   | 2750  | 3G ALE / STANAG 4538  |
| RSK | 7089,1 | v.t. | occ.   | 6  | Central<br>Africa? | ?     | J3E-u |       | French/vernacular msg net   |
| RSK | 7130   | v.t. | nr.dly | 6  | Central<br>Africa? | ?     | J3E-u |       | Kiswahili/Vernacular msg net                                      |
| RSK | 7140   | v.t. | dly    | 6  | Eritrea            | VOB 1 | A3E   |       | Commercial broadcast<br>Voice of the Broad Masses of<br>Eritrea 1 |
| RSK | 7150   | v.t. | nr.dly | 6  | E.<br>Africa?      | ?     | MFSK  | 2000  | 2G ALE  |
| RSK | 7180   | v.t. | dly    | 6  | Eritrea            | VOB 2 | A3E   |       | Commercial broadcast<br>Voice of the Broad Masses of<br>Eritrea 2 |

### SRAL – Finland – OH2BLU (Pekka)

| Society | kHz    | UTC            | DD       | MM | ITU | IDENT  | MODE        | BD  | SH   | REMARKS                             |
|---------|--------|----------------|----------|----|-----|--------|-------------|-----|------|-------------------------------------|
| SRAL    | 7000.0 | 1545-<br>1555/ | 26       | 6  |     | UiMUX  | PSK2        | 120 | 2600 |                                     |
| SRAL    | 7000.0 | '0810          | 15       | 6  | RUS | UiVOX  | J3E-u       |     |      | S9+20                               |
| SRAL    | 7006.4 | 1450-<br>1700  | 9        | 6  |     | UiCarr | N0N         |     |      |                                     |
| SRAL    | 7008.0 | 0415-<br>1845  | *        | 6  | RUS | UiPTR  | F1B         |     | 250  | Days: 13. 21. 22. 28.               |
| SRAL    | 7010.0 | 1245-<br>1845  | 18<br>19 | 6  | RUS | UiMUX  | PSK2        | 120 | 2600 |                                     |
| SRAL    | 7013.0 | '0815          | 18       | 6  | RUS | UiVOX  | J3E-u       |     |      | 1 2 3 ... priom                     |
| SRAL    | 7014.5 | 0815/          | 18       | 6  | RUS | UiPTR  | F1B         |     | 500  | Unstable fq                         |
| SRAL    | 7017.2 | '0730-         | 18       | 6  | RUS | UiPTR  | F1B         |     | 500  | Unstable fq                         |
| SRAL    | 7022.0 | 1320-<br>1835  | *        | 6  | RUS | UiMUX  | PSK2        | 120 | 2600 | Days: 14. 20. 29.                   |
| SRAL    | 7025.0 | /0520-<br>1615 | *        | 6  | RUS | UiPTR  | F1B/A       |     | 200  | Days: 2. 3. 6. 8. 9. 12. 18.,<br>5F |
| SRAL    | 7027.0 | 1245           | 21       | 6  | RUS | UiMUX  | PSK2        | 120 | 2600 |                                     |
| SRAL    | 7033.9 | 1300-<br>1330/ | 3        | 6  |     | UiPTR  | F1B         |     | 500  |                                     |
| SRAL    | 7034.0 | 1315-<br>1850/ | *        | 6  | RUS | UiPTR  | F1B/<br>N0N |     | 250  | Days: 4. 18. 26.                    |
| SRAL    | 7066.0 | 1430-<br>1700/ | 14       | 6  | RUS | UiMUX  | PSK2        | 120 | 2600 |                                     |
| SRAL    | 7066.0 | 0915-<br>1700/ | 18       | 6  |     | P4CM   | F1A/<br>N0N |     | 200  |                                     |
| SRAL    | 7110.0 | 1440-<br>1500/ | 6        | 6  |     | UiPTR  | F1B         |     | 250  |                                     |
| SRAL    | 7110.0 | 1145-<br>1200  | 22       | 6  |     | UiCW   | A1A         |     |      | 5BL, S9+20                          |
| SRAL    | 7111.0 | 1200-<br>1345/ | 2        | 6  | RUS | UiPTR  | F1B         |     | 250  |                                     |
| SRAL    | 7112.0 | 1140-          | 3 19     | 6  |     | UiMUX  | PSK2        | 120 | 2600 |                                     |

| Society | kHz     | UTC        | DD       | MM | ITU | IDENT     | MODE        | BD  | SH   | REMARKS  |
|---------|---------|------------|----------|----|-----|-----------|-------------|-----|------|--|
|         |         | 1500       |          |    |     |           |             |     |      |  |
| SRAL    | 7117.0  | 0530-1930  | 17<br>18 | 6  |     | UiPTR     | F1B/<br>NON |     | 200  |  |
| SRAL    | 7120.0  | '0755      | 23       | 6  |     | UiPTR     | F1B         |     |      |  |
| SRAL    | 7140.0  | 0500-0730  | dly      | 6  | ERI | VoBME     | A3E         |     |      |  |
| SRAL    | 7140.0  | 1400-1840/ | dly      | 6  | ERI | VoBME     | A3E         |     |      |  |
| SRAL    | 7158.0  | 0730-0800  | 18       | 6  |     | UiPTR     | F1B/<br>NON |     | 250  |  |
| SRAL    | 7160.0  | 1245       | 1        | 6  |     | UiMUX     | PSK2        | 120 | 2600 |  |
| SRAL    | 7162.0  | 0615-1830  | *        | 6  | RUS | UiPTR     | F1B         |     | 250  |  |
| SRAL    | 7167.0  | 0830-1520/ | 1 5      | 6  |     | UiPTR     | F1B         |     | 900  |  |
| SRAL    | 7169.0  | 1040-1320  | 17<br>18 | 6  |     | UiPTR     | F1B         |     | 250  |  |
| SRAL    | 7172.0  | '0810      | 22       | 6  |     | UiMUX     | PSK2        | 120 | 2600 | Days: 20. 21. 24.                              |
| SRAL    | 7176.0  | 0800-0915  | 1 16     | 6  |     | UiPTR     | F1B         |     | 250  |  |
| SRAL    | 7178.0  | 1145       | 3        | 6  |     | UiMUX     | PSK2        | 120 | 2600 |  |
| SRAL    | 7180.0  | 0500-0730  | dly      | 6  | ERI | VoBME     | A3E         |     |      |  |
| SRAL    | 7180.0  | 1400-1840/ | dly      | 6  | ERI | VoBME     | A3E         |     |      |  |
| SRAL    | 7184.0  | 1215-1225/ | 12       | 6  |     | UiMUX     | PSK2        | 120 | 2600 |  |
| SRAL    | 7190.0  | 1445-1610/ | 22<br>23 | 6  |     | UiCarr    | NON         |     |      |  |
| SRAL    | 7197.0  | 1100-1145  | 22       | 6  |     | UiMUX     | PSK2        | 120 | 2600 |  |
| SRAL    | 7198.0  | 0500-1030  | 4 24     | 6  | RUS | UiMUX     | PSK2        | 120 | 2600 |  |
| SRAL    | 7200.0  | 1425       | 1        | 6  | RUS | UiMUX     | PSK2        | 120 | 2600 |  |
| SRAL    | 10 MHz  | 0600-1630  | *        | 6  | CYP | UiOTHR    | FMCW        |     |      | 25/50Hz, 20kHz, days: 1. 2. 3. 18. (WebSDR 5d) |
| SRAL    | 10 MHz  |            |          | 6  | RUS | Kontainer | FMCW        |     |      | 40Hz/ 15kHz                                    |
| SRAL    | 14 MHz  | 0930-1000  | 10       | 6  | CHN | UiOTHR    | FMCW        |     |      | 20Hz/ 10kHz                                    |
| SRAL    | 14 MHz  | 1620       | 11       | 6  | CHN | UiOTHR    | FMCW        |     |      | 10Hz/ 15kHz                                    |
| SRAL    | 14 MHz  | 0530-0730  | *        | 6  | RUS | Kontainer | FMCW        |     |      | 40Hz/ 15kHz, days: 7. 11. 13. 14. 15.          |
| SRAL    | 14006.0 | 0940-0946/ | 10       | 6  | RUS | UiMUX     | PSK2        | 120 | 2600 |  |
| SRAL    | 14008.0 | 1035-1130  | 16<br>27 | 6  | RUS | UiPTR     | F1B         |     | 250  |  |
| SRAL    | 14026.0 | 0840-0910  | 1        | 6  |     | UiMUX     | PSK2        | 120 | 2600 |  |
| SRAL    | 14100.0 | 0740-0750/ | 12       | 6  | POL | 111       | A1A         |     |      | TDoA: 53.00/17.60                              |
| SRAL    | 14108.0 | 0500-1230  | *        | 6  | RUS | XYTU etc  | A1A         |     |      | Days: 1. 4. 7. 10. 17. 22. 26. 27. - 29.       |
| SRAL    | 14116.0 | 0500-1230  | 22<br>23 | 6  |     | UiPTR     | F1B         |     |      |  |
| SRAL    | 14118.0 | 0525-1435  | *        | 6  | RUS | JRGB etc  | A1A         |     |      | Days: 4. 14. 27.                               |
| SRAL    | 14160.0 | 0500-1335  | *        | 6  | RUS | UiPTR     | F1B         |     | 200  |  |
| SRAL    | 14160.0 | 0500-1250  | 24       | 6  | RUS | UiPTR     | F1B         |     | 250  |  |
| SRAL    | 14162.0 | 1204-1305  | 16       | 6  |     | UiMUX     | PSK2        | 120 | 2600 |  |
| SRAL    | 14192.0 | 0420-1830  | dly      | 6  | RUS | UiPTR     | F1B         |     | 200  |  |
| SRAL    | 14221.0 | 0200-0600/ | dly      | 6  | KGZ | UiPTR     | F1B         |     | 200  |  |

| Society | kHz     | UTC        | DD  | MM | ITU | IDENT           | MODE | BD  | SH   | REMARKS  |
|---------|---------|------------|-----|----|-----|-----------------|------|-----|------|--|
| SRAL    | 14228.0 | 0900-1040  | 23  | 6  |     | UiPTR           | F1B  |     |      |  |
| SRAL    | 14240.0 | '0525      | 14  | 6  | RUS | UiMUX           | PSK2 | 120 | 2600 |  |
| SRAL    | 14242.0 | 0520-0545/ | 18  | 6  | RUS | UiMUX           | PSK2 | 120 | 2600 |  |
| SRAL    | 14271.9 | /1105-1330 | 20  | 6  | RUS | UiPTR           | F1B  |     | 325  |  |
| SRAL    | 14274.0 | 1000-1105  | 20  | 6  |     | UiPTR           | F1B  |     | 500  |  |
| SRAL    | 14292.0 | '0645      | 14  | 6  | RUS | YBZ9            | A1A  |     |      | 5BL  |
| SRAL    | 14295.2 | 040-1830   | dly | 6  | TJK | R<br>Tojikiston | A3E  |     |      | 3f   |
| SRAL    | 14317.0 | 0900-1220  | *   | 5  |     | UiCW            | A1A  |     |      | 5BL  |
| SRAL    | 18 MHz  | 0855-1300  | *   | 6  | CYP | UiOTHR          | FMCW |     |      | 25/50Hz/20kHz, days: 5. 16. (WebSDR 9d)                                      |
| SRAL    | 18080.0 | 0600-0800  | *   | 6  | TWN | Sound of Hope   | A3E  |     |      | CHN jam by BC, days: 1. 2. 7. 8. 13. 15. 16. 18. 20. 23. 24. 25. 29. 30.     |
| SRAL    | 18150.0 | '0825      | 14  | 6  | RUS | UiPTR           | F1B  |     | 1000 |  |
| SRAL    | 21 MHz  | 0530-1100  | *   | 6  | CYP | UiOTHR          | FMCW |     |      | 25/50Hz/20kHz, days: 13. 14. 16. 20. 21. (WebSDR 9d)                         |
| SRAL    | 21438.0 | /0830-1430 | *   | 6  | RUS | RCV             | A1A  |     |      | Days: 1. - 5. 10. 11. 12. 15. - 19. 21. 22. 23. 25. 26. 29.                  |
| SRAL    | 24 MHz  |            |     | 6  |     | UiOTHR          | FMCW |     |      | (WebSDR 0d)  |
| SRAL    | 28 MHz  | 0530-1830  | *   | 6  | IRN | UiOTHR          | FMCW |     |      | 307 & 870Hz / 60 kHz. Days: 15. 16. 20. 25.                                  |
| SRAL    | 28860.0 | 0400-1830  | *   | 6  | IRN | UiOTHR          | FMCW |     |      | 150 & 313Hz / 60 kHz. Days: 2. 4. 5. 10. - 21. 23. 25. 28. 29. 30.           |
| SRAL    | 28 MHz  | 0910-0950/ | 19  | 6  | CYP | UiOTHR          | FMCW |     |      | 50Hz/ 20kHz  |
| SRAL    | 28 MHz  | 0400-1830  | *   | 6  | RUS | Taxi disp.      | F3E  |     |      | 145 reports, days: 2. 4. 12. 13. 15. 16. 18. 19. 20. 21. 23. 25. 28. 29. 30. |

### URE – Spain – EA6AMM (Gaspar)

| SOC | kHz     | UTC   | DD | MM | ITU | IDENT | MODE | BD  | SH   | DETAILS  |
|-----|---------|-------|----|----|-----|-------|------|-----|------|--|
| URE | 7140    | VT    | VD | 6  | ERI |       | A3E  |     |      | Broadcasting, Radio Voice of the Broad Masses 1.               |
| URE | 7180    | VT    | VD | 6  | ERI |       | A3E  |     |      | Broadcasting, Radio Voice of the Broad Masses 2                |
| URE | 10116   | 20:00 | 25 | 6  |     |       | F1B  |     | 250  |  |
| URE | 10130   | 22:35 | 3  | 6  |     |       | FMOP |     | 20 k | OTH Radar bursts from 10125 to 10135 kHz                       |
| URE | 10150   | 17:20 | 1  | 6  |     |       | FMOP |     | 20 k | OTH Radar from 10140 to 10150 kHz                              |
| URE | 14108   | 06:15 | 1  | 6  |     | OEFX  | A1A  |     |      | Coded CW transmissions between two stations. One ids as "OEFX" |
| URE | 14113.5 | 06:02 | 5  | 6  |     |       | F1B  | 600 | 600  | DPRK-FSK 600   |
| URE | 14116   | 08:57 | 3  | 6  |     |       | F1B  |     | 250  |  |
| URE | 14141   | 10:39 | 4  | 6  |     |       | F1B  |     | 500  |  |
| URE | 14142   | 08:40 | 12 | 6  | RUS |       | FMOP |     | 12 K | OTH Radar Contayner.40 sps. N of Penza.                        |
| URE | 14146.5 | 11:01 | 5  | 6  |     |       | FMOP |     | 12 k | OTH Radar  |
| URE | 14160   | 18:33 | 24 | 6  |     |       | F1B  |     | 250  |  |
| URE | 14181   | 08:55 | 12 | 6  | RUS |       | FMOP |     | 12 k | OTH Radar Contayner. 40 sps. N of Penza.                       |
| URE | 14185   | 10:00 | 11 | 6  | RUS |       | FMOP |     | 12 k | OTH Radar Contayner. 40 sps. N of Penza.                       |
| URE | 14192   | VT    | VD | 6  | RUS |       | F1B  | 50  | 200  | RUS Navy Kaliningrad   |
| URE | 14272   | 09:56 | 20 | 6  |     |       | F1B  |     | 500  |  |
| URE | 28010   | 13:54 | 1  | 6  |     |       | A1A  |     |      | 12 sec dash and DN. Fishery buoy                               |

## USKA – Switzerland – HB9CET (Peter)

| SOC  | kHz      | UTC  | DD | MM | ITU | IDENT     | MODE   | BD     | SH (BW)  | DETAILS                                   |
|------|----------|------|----|----|-----|-----------|--------|--------|----------|---|
| USKA | 7004.0   | 2241 | 02 | 06 |     |           | MFSK8  | 125    | 1750     | ALE, MIL 188-141A                         |
| USKA | 7010.0   | 1736 | 18 | 06 |     |           | J7D    | 12x120 | 2k7      | PSK-2; CIS12 aka AT3004D                  |
| USKA | 7034.0   | 1739 | 18 | 06 |     |           | F1B    | 75     | 250      |   |
| USKA | 7092.0   | 0749 | 24 | 06 |     |           | MFSK8  | 125    | 1750     | ALE, MIL 188-141A                         |
| USKA | 7107.8   | 2144 | 03 | 06 |     | various   | F1B    | 100    | 170      | CODAN Selcall                             |
| USKA | 7119.0   | 1449 | 05 | 06 |     |           | J7D    | 12x120 | 2k7      | PSK-2; CIS12; aka AT3004D often           |
| USKA | 7140.7   | 2146 | 03 | 06 |     | various   | F1B    | 100    | 170      | CODAN Selcall                             |
| USKA | 7146.7   | 2147 | 03 | 06 |     | various   | F1B    | 100    | 170      | CODAN Selcall                             |
| USKA | 7150.0   | 2202 | 25 | 06 |     | 1128; var | MFSK8  | 125    | 1750     | ALE, MIL 188-141A; To: 3847               |
| USKA | 7169.0   | 0801 | 28 | 06 |     |           | F1B    | 75     | 250      |   |
| USKA | 7176.0   | 0843 | 01 | 06 |     |           | F1B    | 75     | 250      |   |
| USKA | 7176.0   | 2149 | 03 | 05 |     |           | J7D    | 12x120 | 2k7      | PSK-2; CIS12 aka AT3004D                  |
| USKA | 7180.0   | 1741 | 12 | 06 | ERI | VOBM      | A3E    |        | ~ 9k     | BC almost daily                           |
| USKA | 7197.0   | 2059 | 05 | 06 | TUR | 309018    | MFSK8  | 125    | 1750     | ALE, MIL 188-141A                         |
| USKA | 7197.0   | 2054 | 19 | 06 | TUR | 313013    | MFSK8  | 125    | 1750     | ALE, MIL 188-141A                         |
| USKA | 7197.0   | 0807 | 28 | 06 |     |           | G1D    | 2400   | 2400     | MIL 188-110A                              |
| USKA | 7198.0   | 2131 | 23 | 06 |     |           | J7D    | 12x120 | 2k7      | PSK-2; CIS12 aka AT3004D                  |
| USKA | 14006.0  | 0944 | 10 | 06 |     |           | J7D    | 12x120 | 2k7      | PSK-2; CIS12 aka AT3004D                  |
| USKA | 14008.0  | 0813 | 24 | 06 |     |           | F1B    | 50     | 250      | often                                     |
| USKA | 14013.5  | 1356 | 04 | 06 |     |           | F1B    | 600    | 600      | ARQ                                       |
| USKA | 14026.0  | 0846 | 01 | 06 |     |           | J7D    | 12x120 | 2k7      | PSK-2; CIS12 aka AT3004D                  |
| USKA | 14102.0  | 0811 | 11 | 06 |     |           | OFDM60 | 30     | ~ 2.75k  | PSK4; spacing 44.45Hz; pilottone          |
| USKA | 14112.0  | 0806 | 11 | 06 |     |           | J7D    | 12x120 | 2k7      | PSK-4; CIS12 aka AT3104D                  |
| USKA | 14141.0  | 1138 | 04 | 06 |     |           | F1B    | 75     | 500      |   |
| USKA | 14141.0  | 0855 | 13 | 06 |     |           | FMOP   | 40 sps | appx 12k | OTHR; (long lasting) often                |
| USKA | 14160.0  | 0730 | 24 | 06 |     |           | F1B    | 75     | 250      | CIS                                       |
| USKA | 14171.0  | 1406 | 13 | 06 |     |           | FMOP   | 40 sps | appx 12k | OTHR                                      |
| USKA | 14181.0  | 0814 | 12 | 06 |     |           | FMOP   | 40 sps | appx 12k | OTHR                                      |
| USKA | 14184.0  | 0943 | 11 | 06 |     |           | FMOP   | 40 sps | appx 12k | OTHR                                      |
| USKA | 14186.0  | 1402 | 12 | 06 |     |           | FMxx   |        | appx 10k | OTHR; Bursts                              |
| USKA | 14190.0  | 0852 | 13 | 06 |     |           | FMOP   | 40 sps | appx 12k | OTHR; (long lasting)                      |
| USKA | 14192.0  | 0849 | 01 | 06 |     |           | F1B    | 50     | 200      | daily                                     |
| USKA | 14221.0  | 2056 | 05 | 06 |     |           | F1B    | 50     | 200      | often                                     |
| USKA | 14240.0  | 0735 | 24 | 06 |     |           | F1B    | 75     | 250      |   |
| USKA | 14260.0  | 1316 | 11 | 06 |     |           | FMOP   | 10 sps | 160k     | OTHR often                                |
| USKA | 14268.0  | 1529 | 10 | 06 |     |           | FMOP   | 10 sps | 160k     | OTHR; (long lasting)                      |
| USKA | 14275.0  | 1141 | 03 | 06 |     |           | N0N    |        |          | Long lasting carrier                      |
| USKA | 14292.0  | 0937 | 11 | 06 |     | various   | A1A    |        |          | 4-letter id's often                       |
| USKA | 14295.0  | 1522 | 19 | 06 | TJK |           | A3E    |        |          | 3 <sup>rd</sup> of Radio Tajikistan often |
| USKA | 14316.9  | 1236 | 14 | 06 |     |           | A1A    |        |          | letters and figures (no ham)              |
| USKA | 14322.0  | 1235 | 14 | 06 |     |           | FMxx   | 30 sps | 10k      | OTHR; Bursts, BRI 11s                     |
| USKA | 14340.0  | 1554 | 11 | 06 |     |           | FMOP   | 10 sps | 160k     | OTHR, Bursts of appx 40s                  |
| USKA | 18080.0  | 0608 | 08 | 06 |     |           | A3E    |        | appx 10k | BC: Chinese often                         |
| USKA | 18080.0  | 1225 | 14 | 06 |     |           | FMCW   | 50 sps | 20k      | OTHR                                      |
| USKA | 18109.0  | 0849 | 13 | 06 |     |           | J7D    | 12x120 | 2k7      | PSK-4; CIS12 aka AT3104D                  |
| USKA | 21150.0  | 0805 | 06 | 06 |     |           | FMCW   | 50 sps | 20k      | OTHR                                      |
| USKA | 21438.0  | 0851 | 01 | 06 | RUS | RCV       | A1A    |        |          | letters + figures almost daily            |
| USKA | 28055.2  | 1345 | 12 | 06 |     | COM       | A1A    |        |          | Fishery buoy                              |
| USKA | 28065.0  | 1342 | 12 | 06 |     | VIM       | A1A    |        |          | Fishery buoy                              |
| USKA | 28085.0  | 1556 | 17 | 06 |     |           | F1B    | 51     | 300      | ENAGAL Fishery buoy                       |
| USKA | 28085.15 | 1606 | 17 | 06 |     |           | F1B    | 51     | 300      | ENAGAL Fishery buoy                       |
| USKA | 28089.5  | 1550 | 17 | 06 |     | AY        | A1A    |        |          | Fishery buoy                              |

| SOC  | kHz     | UTC  | DD | MM | ITU | IDENT | MODE | BD            | SH (BW)  | DETAILS   |
|------|---------|------|----|----|-----|-------|------|---------------|----------|---|
| USKA | 28179.5 | 1724 | 18 | 06 |     | FA    | A1A  |               |          | Fishery buoy  |
| USKA | 28229.6 | 1718 | 18 | 06 |     | ZA    | A1A  |               |          | Fishery buoy  |
| USKA | 28329.0 | 0925 | 19 | 06 |     |       | FMCW | 50 sps        | 20k      | OTHR, (TDoA: Cyprus)                                  |
| USKA | 28330.6 | 1713 | 18 | 06 |     | EZ    | A1A  |               |          | Fishery buoy  |
| USKA | 28366.0 | 1350 | 12 | 06 |     | HN    | A1A  |               |          | Fishery buoy  |
| USKA | 28860.0 | 0654 | 05 | 06 |     |       | Puls | 150 + 313 sps | appx 45k | OTHR, Bursts, various sweep-rates and durations daily |
| USKA | 28989.0 | 0907 | 19 | 06 |     |       | FMxx | 50 sps        | 20k      | OTHR (long lasting)                                   |

### Veron – Netherlands – PG1R (Ruud)

| SOC   | kHz     | UTC  | DD | MM | ITU     | IDENT | MODE  | SHIFT | DETAILS   |
|-------|---------|------|----|----|---------|-------|-------|-------|---|
| VERON | 3562,0  | 2017 | 18 | 06 | CIS     | VGGX  | A1A   |       | Proc's/Calls to C5BE ON1C QYOX                        |
| VERON | 3562,0  | 2024 | 18 | 06 | CIS     | VGGX  | A1A   |       | QYOX de VGGX QTC 335 21 18 2305 335 = 359 = DDDDD 5BL |
| VERON | 7008,0  | 1837 | 14 | 06 | RUS     | UiPtr | F1B   |       | Ptr   |
| VERON | 7055,0  | 1656 | 08 | 06 | RUS/UKR |       | J3E-1 |       | Comments; S8  |
| VERON | 7055,0  | 1656 | 08 | 06 | RUS/UKR |       | J3E-1 |       | Second TX same freq; Comments; S6                     |
| VERON | 10108,0 | 0856 | 28 | 06 | RUS     | RDL   | F1A   |       | RDL 52130 73131 K                                     |
| VERON | 10108,0 | 0843 | 06 | 06 | RUS     | RDL   | F1A   |       | RDL 74058 99614 K                                     |
| VERON | 10118,0 | 1416 | 03 | 06 |         | UiPTR | F1B   |       | Ptr also 23/6 17.25 UTC                               |
| VERON | 14008,0 | 742  | 16 | 06 | RUS     | UiPtr | F1B   |       | Ptr   |
| VERON | 14008,0 | 1008 | 19 | 06 | RUS     | UiPtr | F1B   |       | Ptr   |
| VERON | 14008,0 | 0942 | 06 | 06 | CIS     | UiPTR | F1B   |       | Carrier/Revs/Ptr                                      |
| VERON | 14108,0 | 1153 | 18 | 06 | CIS     | M4XX  | A1A   |       | NAAK de M4XX QTC 121 52 18 1448 121 = 195 = MMMMM 5BL |
| VERON | 14108,0 | 0900 | 19 | 06 | CIS     | C1OB  | A1A   |       | XXX C1OB 51971 WAKODYM 2917 1735 K                    |
| VERON | 14108,0 | 0906 | 19 | 06 | CIS     | C1OB  | A1A   |       | XXX C1OB 32741 AFFEKTIWNYJ 5552 5291                  |
| VERON | 14108,0 | 0909 | 19 | 06 | CIS     | C1OB  | A1A   |       | XXX C1OB 00517 BORTNIK 6175 8512 PRYQPZOW 2128 3553   |
| VERON | 14108,0 | 0914 | 19 | 06 | CIS     | X5EP  | A1A   |       | VIGG de X5EP QBE QYT6 K                               |
| VERON | 14108,0 | 0929 | 19 | 06 | CIS     | WLHN  | A1A   |       | XXX WLHN 97546 UMOMETR 6448 2371 oeHOSPID 2328 7894 K |
| VERON | 14108,0 | 0940 | 19 | 06 | CIS     | D4NT  | A1A   |       | TGQV de D4NT QYT9 K                                   |
| VERON | 14108,0 | 0900 | 27 | 06 | CIS     | B9XK  | A1A   |       | LEXM de B9XK Proxs/Calls to ZPCS GFIT MWTP OZCW       |
| VERON | 14108,0 | 1220 | 29 | 06 | CIS     | PNT4  | A1A   |       | cmypd dyrzs gayen idfut ofiar                         |
| VERON | 14108,0 | 1222 | 29 | 06 | CIS     | Y1CQ  | A1A   |       | qtc2 zbu 29 1504 zbu AR MIL                           |
| VERON | 14108,0 | 0831 | 01 | 06 | CIS     | GIF2  | A1A   |       | Calls to XDTY AE2F TR4O WR5O TVOC                     |
| VERON | 14108,0 | 1020 | 03 | 06 | RUS     | UiCW  | A1A   |       | 5F RLPDG LZNDE etc MIL                                |
| VERON | 14108,0 | 0955 | 03 | 06 | CIS     | TXQR  | A1A   |       | TXQR 150 44 3 1250 150 = ZLL 938 = MMMMM 5BL          |
| VERON | 14108,0 | 1002 | 03 | 06 | CIS     | TXQR  | A1A   |       | Y1CQ QTC ZGV AR                                       |
| VERON | 14108,0 | 1004 | 03 | 06 | CIS     | TXQR  | A1A   |       | TXQR 340 46 3 12.48 340 = ZGV 938 = CWETN 5BL         |
| VERON | 14108,0 | 1008 | 03 | 06 | CIS     | TXQR  | A1A   |       | Procs/Calls to 3TMM AGM9 Z5VY WILL CG8S 2EHZ          |
| VERON | 14108,0 | 1012 | 03 | 06 | CIS     | TXQR  | A1A   |       | 2EHZ de TXQR QTA 340 K                                |
| VERON | 14108,0 | 1016 | 03 | 06 | CIS     | TXQR  | A1A   |       | TXQR 430 52 3 13.06 430 = 938 = MMMMM 5BL             |
| VERON | 14108,0 | 0920 | 04 | 06 | CIS     | P3TD  | A1A   |       | P3TD Procs/Calls                                      |
| VERON | 14108,0 | 0831 | 05 | 06 | RUS     | OEFX  | A1A   |       | EL7E DE OEFX K  |
| VERON | 14108,0 | 0836 | 05 | 06 | RUS     | OEFX  | A1A   |       | WYXZ DE OEFX K  |
| VERON | 14108,0 | 0840 | 05 | 06 | RUS     | OEFX  | A1A   |       | FQNS DE OEFX proc                                     |



| SOC   | kHz     | UTC  | DD | MM | ITU | IDENT | MODE | SHIFT | DETAILS  |
|-------|---------|------|----|----|-----|-------|------|-------|--|
| VERON | 14108,0 | 0842 | 05 | 06 | RUS | OEFX  | A1A  |       | IIZP DE OEFX proc  |
| VERON | 14108,0 | 0844 | 05 | 06 | RUS | OEFX  | A1A  |       | H7AI DE OEFX K   |
| VERON | 14108,0 | 0932 | 06 | 06 | CIS | WEGI  | A1A  |       | XXX WEGI 84016<br>SOLXFATARA 0020 6061 K                         |
| VERON | 14108,0 | 0956 | 06 | 06 | CIS | 1SLD  | A1A  |       | 5FM1 de 1SLD QTC 648 51 6<br>12.50 648 = 602 = MMMMM<br>5BL      |
| VERON | 14108,0 | 0854 | 07 | 06 | RUS | EHY2  | A1A  |       | LW6J DE EHY2 ATC / 586<br>49 8 1048 586 BT 824 BT<br>MMMMM (etc) |
| VERON | 14108,0 | 0908 | 07 | 06 | RUS | EHY2  | A1A  |       | LMNK DE EHY2 542 34 8<br>1104 542 BT 824 BT<br>MMMMM (etc 5BL)   |
| VERON | 14109,5 | 0836 | 24 | 06 |     | UiPTR | F1B  |       | Ptr also 23/6 17.25 UTC  |
| VERON | 14112,0 | 0940 | 18 | 06 | CIS | UiPTR | F1B  |       | Revs/Ptr   |
| VERON | 14116,0 | 0848 | 03 | 06 |     | UiPTR | F1B  |       | Ptr also 23/6 17.25 UTC  |
| VERON | 14118,0 | 0914 | 10 | 06 | CIS | XUGN  | A1A  |       | XUGN 090 34 10 1230 090 =<br>ZSX 676 = ROZFY 5BL                 |
| VERON | 14118,0 | 0917 | 10 | 06 | CIS | XUGN  | A1A  |       | XUGN 755 34 10 1213 755 =<br>ZRM 676 = QNWBN 5BL                 |
| VERON | 14118,0 | 0928 | 17 | 06 | CIS | QLSO  | A1A  |       | QLSO 985 34 17 1223 985 =<br>ZUM 625 = SZBEU 5BL                 |
| VERON | 14118,0 | 0937 | 17 | 06 | CIS | 6GX2  | A1A  |       | ETT3 de 6GX2 QTC 605 34<br>17 1230 605 = ZWK 625 =<br>5BL        |
| VERON | 14118,0 | 0940 | 17 | 06 | CIS | 6GX2  | A1A  |       | 6GX2 QTC 605 34 17 1230<br>605 = ZWK 625 = 5BL                   |
| VERON | 14118,0 | 0857 | 03 | 06 | CIS | CJIZ  | A1A  |       | CJIZ QBE ZHU ZLS K   |
| VERON | 14118,0 | 0810 | 06 | 06 | ?   | CJIZ  | A1A  |       | QEXJ DE CJIZ K (calls)   |
| VERON | 14118,0 | 0922 | 06 | 06 | ?   | CJIZ  | A1A  |       | QEXJ DE CJIZ K (one call)  |
| VERON | 14118,0 | 0833 | 07 | 06 | ?   | XJIZ  | A1A  |       | VVV QEXJ DE CJIZ K / R K   |
| VERON | 14118,0 | 0932 | 08 | 06 | CIS | CJIZ  | A1A  |       | QEXJ de CJIZ Calls K   |
| VERON | 14160,0 | 0828 | 24 | 06 |     | UiPTR | F1B  |       | Ptr  |
| VERON | 14192,0 | 0950 | 03 | 06 | CIS | UiPTR | F1B  |       | Revs/Ptr also 10/6 08.46 UTC                                     |
| VERON | 14192,0 | 0909 | 05 | 06 | ?   | ?     | F1B  | 250   | revs   |
| VERON | 14192,0 | 0911 | 05 | 06 | ?   | ?     | F1B  | 250   | ptr  |
| VERON | 14221,0 | 0910 | 17 | 06 | RUS | RAA   | A1A  |       | RJH25 de RAA K R K   |
| VERON | 14240,0 | 0927 | 04 | 06 |     | UiPTR | F1B  |       | Ptr als 24/6 08.30 UTC   |
| VERON | 14272,0 | 1057 | 20 | 06 | RUS | UiPtr | F1B  |       | Ptr 500 Hz   |
| VERON | 14317,0 | 0850 | 14 | 06 | CIS | B7Y8  | A1A  |       | FIKH de B7Y8 QTC 083 34<br>14 1145 083 = ZJE 247 = 5BL           |
| VERON | 14317,0 | 0910 | 15 | 06 | CIS | TOZZ  | A1A  |       | DIQA de TOZZ QSA no QSV  |
| VERON | 21438,0 | 1033 | 06 | 06 | RUS | RCV   | A1A  |       | RBE86 DE RCV QTC 524 73<br>4 1206                                |

# The monitoring team of IARU Region 1

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All our friends and contributors worldwide!

Many thanks for your interest!

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