



**INTERNATIONAL AMATEUR RADIO  
UNION**

**REGION THREE**

**MONITORING SYSTEM NEWS LETTER**



**October 2021**

**Titon Dutono, YB3PET**

Reports for October 2021 were contributed by ARSI, JARL and NZART

For this period there were 37 observations from ARSI, 70 observations from JARL, and 13 observations from NZART. By this month's sampling, there are a total of 120 observations of intruders made across the Region.

The most prominent intruders are in the following table,

| No. | Band | Class Emission | Administration | Description                                                                     |
|-----|------|----------------|----------------|---------------------------------------------------------------------------------|
| 1.  | 40m  | A1A            | RUS            | Beacon                                                                          |
|     |      | J3E/U          | CLN            | Talk in sinhala by male and fair signal was observed                            |
|     |      | A3E            | ETHIO          | Today strong signal was oboserved and speech in african language from Ethiopia. |
| 2.  | 20m  | PXX            | CHN            | OTHR Chinese S7 51 second bursts wide bandwidth                                 |
|     |      |                | RUS            | OTHR Russian 59 40 PPs constant                                                 |
| 3.  | 15m  | PXX            | CYP            | OTHR Cyprus S3 50 pps continuous                                                |

Note: <ARSI> This month as usual 40 meter band is always occupied by a new station from ETHIOPIA in the evening with strong signal and the usual Srilanlklan trawlers throughout the day,

Further, more detail is provided in the attached data report.

Thank you to all the regional observers for their reports, these reports are needed and really appreciated. Monitoring reports can also be sent directly to the monitoring coordinator if you don't have a national monitoring coordinator.

For those who would like a CSV file of data please email me at: titondutono@gmail.com

Just a reminder that reports should be sent to the Monitoring Coordinator by the 14<sup>th</sup> day of each month.

Thanks for your support.

Titon YB3PET

## Attachments of Data Report

ARSI: 37 observations

| kHz   | BW | YEAR | MONTH | DD | UTC          | Emm   | Bd | Hdg | ADM  | ID    | Remarks/Details                                                                 | Grid   | Society          |
|-------|----|------|-------|----|--------------|-------|----|-----|------|-------|---------------------------------------------------------------------------------|--------|------------------|
| 7071  | 3  | 2021 | 10    | 1  | <0145 0200>  | J3E/U |    |     | CLN  | UNID  | Today fair signal and talk by male to male.                                     | MK71UJ | ARSI-MONI-VU3SIO |
| 7110  | 3  | 2021 | 10    | 1  | <1630 1700>  | A3E   |    |     | UNID | ETHIO | Today strong signal was oboserved and speech in african language from Ethiopia. | MK71UJ | ARSI-MONI-VU3SIO |
| 21215 | 3  | 2021 | 10    | 4  | <0140 0200>  | J3E/L |    |     | UNID | UNID  | Station not idenified amd also language similar to indonesian                   | MK71UJ | ARSI-MONI-VU3SIO |
| 7110  | 3  | 2021 | 10    | 4  | <0130 0145>  | J3E/U |    |     | UNID | ETHIO | Fair signal and talk in sinhala by male to male                                 | MK71UJ | ARSI-MONI-VU3SIO |
| 7110  | 3  | 2021 | 10    | 5  | <1500 1530>  | A3E   |    |     | UNID | ETHIO | Good signal from Ethiopia and speech by male                                    | MK71UJ | ARSI-MONI-VU3SIO |
| 14312 | 3  | 2021 | 10    | 6  | <0130 0200>  | J3E/U |    |     | CLN  | UNID  | Good signal and talk in sinhala by male tol male.                               | MK71UJ | ARSI-MONI-VU3SIO |
| 7110  | 3  | 2021 | 10    | 6  | <1630 1700>  | A3E   |    |     | UNID | ETHIO | Good signal and speech in ethiopian language.                                   | MK71UJ | ARSI-MONI-VU3SIO |
| 7110  | 3  | 2021 | 10    | 7  | <1600 1630>  | A3E   |    |     | UNID | ETHIO | Speech in ethiopian language and good reception                                 | MK71UJ | ARSI-MONI-VU3SIO |
| 7102  | 3  | 2021 | 10    | 9  | <0145 0200>  | J3E/U |    |     | CLN  | UNID  | Talk in sinhala by male and fair signal was observed                            | MK71UJ | ARSI-MONI-VU3SIO |
| 7110  | 3  | 2021 | 10    | 9  | <1630 1700>  | A3E   |    |     | UNID | ETHIO | Strong signal and speech in ethiopian language.                                 | MK71UJ | ARSI-MONI-VU3SIO |
| 7192  | 3  | 2021 | 10    | 10 | <0145 0200>  | J3E/U |    |     | CLN  | UNID  | Male talikng to male in sinhala continuously and fair signal noted.             | MK71UJ | ARSI-MONI-VU3SIO |
| 7110  | 3  | 2021 | 10    | 10 | <1630 1700>  | A3E   |    |     | UNID | ETHIO | Good signal and speech in african language by male                              | MK71UJ | ARSI-MONI-VU3SIO |
| 7135  | 3  | 2021 | 10    | 11 | <0230 0245>  | J3E/U |    |     | CLN  | UNID  | Male talking in sinhala and fair signal was noted.                              | MK71UJ | ARSI-MONI-VU3SIO |
| 7110  | 3  | 2021 | 10    | 11 | <1600 1630>  | A3E   |    |     | UNID | ETHIO | Reception was good and speech in african language.                              | MK71UJ | ARSI-MONI-VU3SIO |
| 7186  | 3  | 2021 | 10    | 12 | <0145 0200>  | J3E/U |    |     | CLN  | UNID  | Fair signal and talk in sinhala by male tol male.                               | MK71UJ | ARSI-MONI-VU3SIO |
| 7110  | 3  | 2021 | 10    | 12 | <1630 1700>  | A3E   |    |     | UNID | ETHIO | Good signal speech and songs heard.                                             | MK71UJ | ARSI-MONI-VU3SIO |
| 7172  | 3  | 2021 | 10    | 13 | <0145 0200>  | J3E/U |    |     | CLN  | UNID  | Male talking to male in sinhala and fair signal was noted.                      | MK71UJ | ARSI-MONI-VU3SIO |
| 7110  | 3  | 2021 | 10    | 13 | <1600 1630>  | A3E   |    |     | UNID | ETHIO | Signal was strong from BC station and announcement in between                   | MK71UJ | ARSI-MONI-VU3SIO |
| 7189  | 3  | 2021 | 10    | 14 | <0200 0215>  | J3E/U |    |     | UNID | UNID  | Language spoken in similar to Thai by male and good signal moted.               | MK71UJ | ARSI-MONI-VU3SIO |
| 7110  | 3  | 2021 | 10    | 14 | <1600 1630>  | A3E   |    |     | UNID | ETHIO | Good audio from the BC station and speech in between.by nale                    | MK71UJ | ARSI-MONI-VU3SIO |
| 7189  | 3  | 2021 | 10    | 15 | <.0200 0215> | J3E/U |    |     | CLN  | UNID  | Fair signal and male talking to male in sinhala.                                | MK71UJ | ARSI-MONI-VU3SIO |

|       |   |      |    |    |              |       |  |  |      |       |                                                                |        |                  |
|-------|---|------|----|----|--------------|-------|--|--|------|-------|----------------------------------------------------------------|--------|------------------|
| 7110  | 3 | 2021 | 10 | 15 | < 1500 1530> | A3E   |  |  | UNID | ETHIO | Announcement by male and fair signal was observed.             | MK71UJ | ARSI-MONI-VU3SIO |
| 14145 | 3 | 2021 | 10 | 16 | <0130 0145>  | J3E/U |  |  | UNID | UNID  | Station not idenified amd also language similar to indonesian  | MK71UJ | ARSI-MONI-VU3SIO |
| 7110  | 3 | 2021 | 10 | 17 | <1630 1700>  | A3E   |  |  | UNID | ETHIO | Speech in ethiopian by male and fair signal noted              | MK71UJ | ARSI-MONI-VU3SIO |
| 7189  | 3 | 2021 | 10 | 18 | <0145 0200>  | J3E/U |  |  | UNID | UNID  | Fair signal and talk by male simialr to thai language          | MK71UJ | ARSI-MONI-VU3SIO |
| 7110  | 3 | 2021 | 10 | 18 | <1600 1630>  | A3E   |  |  | UNID | ETHIO | Good signal with songs and announcement in between.            | MK71UJ | ARSI-MONI-VU3SIO |
| 7110  | 3 | 2021 | 10 | 19 | <1630 1700>  | A3E   |  |  | UNID | ETHIO | Fair signal from BC station and announcement by male.          | MK71UJ | ARSI-MONI-VU3SIO |
| 7189  | 3 | 2021 | 10 | 21 | <0200 0215>  | J3E/U |  |  | CLN  | UNID  | Fair signal was noted and male talking in sinhala continuously | MK71UJ | ARSI-MONI-VU3SIO |
| 7110  | 3 | 2021 | 10 | 21 | <1645 1715 > | A3E   |  |  | UNID | ETHIO | Announcement by male and fair signal was observed.             | MK71UJ | ARSI-MONI-VU3SIO |
| 7024  | 3 | 2021 | 10 | 22 | <0200 0215>  | J3E/U |  |  | CLN  | UNID  | Male talking to male in sinhala and good signal was noted.     | MK71UJ | ARSI-MONI-VU3SIO |
| 7110  | 3 | 2021 | 10 | 22 | <1600 1630>  | A3E   |  |  | UNID | ETHIO | Fair signal observed and talk in ethiopian language            | MK71UJ | ARSI-MONI-VU3SIO |
| 7161  | 3 | 2021 | 10 | 26 | ,<0200 0215> | J3E/U |  |  | CLN  | UNID  | Poor signal and talk in sinhala by male to male                | MK71UJ | ARSI-MONI-VU3SIO |
| 7110  | 3 | 2021 | 10 | 26 | <1630 1700>  | A3E   |  |  | UNID | ETHIO | Talk in african langauge and good signal was noted             | MK71UJ | ARSI-MONI-VU3SIO |
| 7161  | 3 | 2021 | 10 | 27 | <0145 0200>  | J3E/U |  |  | CLN  | UNID  | Talk in sinhala by male and fair signal was observed           | MK71UJ | ARSI-MONI-VU3SIO |
| 7150  | 3 | 2021 | 10 | 27 | <0200 0215>  | J3E/U |  |  | CLN  | UNID  | Talk in sinhala by male and fair signal was observed           | MK71UJ | ARSI-MONI-VU3SIO |
| 7110  | 3 | 2021 | 10 | 27 | <1600 1630>  | A3E   |  |  | UNID | ETHIO | Songs and announcement in between and good signal moted        | MK71UJ | ARSI-MONI-VU3SIO |
| 7110  | 3 | 2021 | 10 | 28 | <1630 1700>  | A3E   |  |  | UNID | ETHIO | Fair signal and announcment in african                         | MK71UJ | ARSI-MONI-VU3SIO |

JARL: 70 observations

| kHz    | BW  | YYYY | MM | DD | UTC   | Emm     | Bd | Sft | Hdg | ADM | ID        | Description  | Grid   | Society |
|--------|-----|------|----|----|-------|---------|----|-----|-----|-----|-----------|--------------|--------|---------|
| 7002.0 | 6.0 | 2021 | 10 | 19 | 12:05 | Jamming |    |     |     |     |           | Signal RS:59 | PM84XT | JARL    |
| 7039   | 0.5 | 2021 | 10 | 01 | 1050  | A1A     |    |     | 15  | RUS | M--signal | Beacon       | PM97   | JARL    |
| 7039   | 0.5 | 2021 | 10 | 01 | 1220  | A1A     |    |     | 15  | RUS | M--signal | Beacon       | PM97   | JARL    |
| 7039   | 0.5 | 2021 | 10 | 02 | 1040  | A1A     |    |     | 15  | RUS | M--signal | Beacon       | PM97   | JARL    |
| 7039   |     | 2021 | 10 | 02 | 1230  | non     |    |     |     | non | non       | non          | PM97   | JARL    |
| 7039   | 0.5 | 2021 | 10 | 03 | 1040  | A1A     |    |     | 15  | RUS | M--signal | Beacon       | PM97   | JARL    |
| 7039   | 0.5 | 2021 | 10 | 03 | 1220  | A1A     |    |     | 15  | RUS | M--signal | Beacon       | PM97   | JARL    |
| 7039   | 0.5 | 2021 | 10 | 04 | 1040  | A1A     |    |     | 15  | RUS | M--signal | Beacon       | PM97   | JARL    |
| 7039   | 0.5 | 2021 | 10 | 04 | 1220  | A1A     |    |     | 15  | RUS | M--signal | Beacon       | PM97   | JARL    |
| 7039   |     | 2021 | 10 | 05 | 1050  | non     |    |     |     | non | non       | non          | PM97   | JARL    |

|      |     |      |    |    |      |     |  |  |    |     |           |        |      |      |
|------|-----|------|----|----|------|-----|--|--|----|-----|-----------|--------|------|------|
| 7039 |     | 2021 | 10 | 05 | 1230 | non |  |  |    | non | non       | non    | PM97 | JARL |
| 7039 | 0.5 | 2021 | 10 | 06 | 1040 | A1A |  |  | 15 | RUS | M--signal | Beacon | PM97 | JARL |
| 7039 | 0.5 | 2021 | 10 | 06 | 1220 | A1A |  |  | 15 | RUS | M--signal | Beacon | PM97 | JARL |
| 7039 | 0.5 | 2021 | 10 | 07 | 1040 | A1A |  |  | 15 | RUS | M--signal | Beacon | PM97 | JARL |
| 7039 | 0.5 | 2021 | 10 | 07 | 1230 | A1A |  |  | 15 | RUS | M--signal | Beacon | PM97 | JARL |
| 7039 | 0.5 | 2021 | 10 | 08 | 1040 | A1A |  |  | 15 | RUS | M--signal | Beacon | PM97 | JARL |
| 7039 | 0.5 | 2021 | 10 | 08 | 1230 | A1A |  |  | 15 | RUS | M--signal | Beacon | PM97 | JARL |
| 7039 | 0.5 | 2021 | 10 | 09 | 1050 | A1A |  |  | 15 | RUS | M--signal | Beacon | PM97 | JARL |
| 7039 | 0.5 | 2021 | 10 | 09 | 1230 | A1A |  |  | 15 | RUS | M-signal  | Beacon | PM97 | JARL |
| 7039 | 0.5 | 2021 | 10 | 10 | 1020 | A1A |  |  | 15 | RUS | M--signal | Beacon | PM97 | JARL |
| 7039 | 0.5 | 2021 | 10 | 10 | 1220 | A1A |  |  | 15 | RUS | M--signal | Beacon | PM97 | JARL |
| 7039 | 0.5 | 2021 | 10 | 11 | 1030 | A1A |  |  | 15 | RUS | M--signal | Beacon | PM97 | JARL |
| 7039 | 0.5 | 2021 | 10 | 11 | 1230 | A1A |  |  | 15 | RUS | M--signal | Beacon | PM97 | JARL |
| 7039 | 0.5 | 2021 | 10 | 12 | 1040 | A1A |  |  | 15 | RUS | M--signal | Beacon | PM97 | JARL |
| 7039 |     | 2021 | 10 | 12 | 1240 | non |  |  |    | non | non       | non    | PM97 | JARL |
| 7039 | 0.5 | 2021 | 10 | 13 | 1050 | A1A |  |  | 15 | RUS | M--signal | Beacon | PM97 | JARL |
| 7039 | 0.5 | 2021 | 10 | 13 | 1220 | A1A |  |  | 15 | RUS | M--signal | Beacon | PM97 | JARL |
| 7039 | 0.5 | 2021 | 10 | 14 | 1040 | A1A |  |  | 15 | RUS | M--signal | Beacon | PM97 | JARL |
| 7039 | 0.5 | 2021 | 10 | 14 | 1230 | A1A |  |  | 15 | RUS | M--signal | Beacon | PM97 | JARL |
| 7039 | 0.5 | 2021 | 10 | 15 | 1050 | A1A |  |  | 15 | RUS | M--signal | Beacon | PM97 | JARL |
| 7039 | 0.5 | 2021 | 10 | 15 | 1230 | A1A |  |  | 15 | RUS | M--signal | Beacon | PM97 | JARL |
| 7039 |     | 2021 | 10 | 16 | 1050 | non |  |  |    | non | non       | non    | PM97 | JARL |
| 7039 |     | 2021 | 10 | 16 | 1230 | non |  |  |    | non | non       | non    | PM97 | JARL |
| 7039 |     | 2021 | 10 | 17 | 0910 | non |  |  |    | non | non       | non    | PM97 | JARL |
| 7039 |     | 2021 | 10 | 17 | 1030 | non |  |  |    | non | non       | non    | PM97 | JARL |
| 7039 |     | 2021 | 10 | 18 | 1040 | non |  |  |    | non | non       | non    | PM97 | JARL |
| 7039 | 0.5 | 2021 | 10 | 18 | 1230 | A1A |  |  | 15 | RUS | M--signal | Beacon | PM97 | JARL |
| 7039 | 0.5 | 2021 | 10 | 19 | 1030 | A1A |  |  | 15 | RUS | M--signal | Beacon | PM97 | JARL |
| 7039 | 0.5 | 2021 | 10 | 19 | 1210 | A1A |  |  | 15 | RUS | M--signal | Beacon | PM97 | JARL |
| 7039 | 0.5 | 2021 | 10 | 20 | 1050 | A1A |  |  | 15 | RUS | M--signal | Beacon | PM97 | JARL |
| 7039 | 0.5 | 2021 | 10 | 20 | 1230 | A1A |  |  | 15 | RUS | M--signal | Beacon | PM97 | JARL |
| 7039 |     | 2021 | 10 | 20 | 1410 | non |  |  |    | non | non       | non    | PM97 | JARL |
| 7039 | 0.5 | 2021 | 10 | 21 | 1050 | A1A |  |  | 15 | RUS | M--signal | Beacon | PM97 | JARL |
| 7039 | 0.5 | 2021 | 10 | 21 | 1230 | A1A |  |  | 15 | RUS | M--signal | Beacon | PM97 | JARL |
| 7039 | 0.5 | 2021 | 10 | 22 | 1050 | A1A |  |  | 15 | RUS | M--signal | Beacon | PM97 | JARL |
| 7039 | 0.5 | 2021 | 10 | 22 | 1220 | A1A |  |  | 15 | RUS | M--signal | Beacon | PM97 | JARL |
| 7039 | 0.5 | 2021 | 10 | 23 | 1040 | A1A |  |  | 15 | RUS | M--signal | Beacon | PM97 | JARL |
| 7039 | 0.5 | 2021 | 10 | 23 | 1230 | A1A |  |  | 15 | RUS | M--signal | Beacon | PM97 | JARL |
| 7039 | 0.5 | 2021 | 10 | 24 | 1020 | A1A |  |  | 15 | RUS | M--signal | Beacon | PM97 | JARL |
| 7039 | 0.5 | 2021 | 10 | 24 | 1220 | A1A |  |  | 15 | RUS | M--signal | Beacon | PM97 | JARL |
| 7039 | 0.5 | 2021 | 10 | 25 | 1040 | A1A |  |  | 15 | RUS | M--signal | Beacon | PM97 | JARL |
| 7039 | 0.5 | 2021 | 10 | 25 | 1230 | A1A |  |  | 15 | RUS | M--signal | Beacon | PM97 | JARL |
| 7039 | 0.5 | 2021 | 10 | 26 | 1050 | A1A |  |  | 15 | RUS | M--signal | Beacon | PM97 | JARL |
| 7039 | 0.5 | 2021 | 10 | 26 | 1220 | A1A |  |  | 15 | RUS | M--signal | Beacon | PM97 | JARL |

|        |     |      |    |    |       |         |  |  |    |     |           |                         |        |      |
|--------|-----|------|----|----|-------|---------|--|--|----|-----|-----------|-------------------------|--------|------|
| 7039   |     | 2021 | 10 | 26 | 1330  | non     |  |  |    | non | non       | non                     | PM97   | JARL |
| 7039   | 0.5 | 2021 | 10 | 27 | 1040  | A1A     |  |  | 15 | RUS | M--signal | Beacon                  | PM97   | JARL |
| 7039   | 0.5 | 2021 | 10 | 27 | 1230  | A1A     |  |  | 15 | RUS | M--signal | Beacon                  | PM97   | JARL |
| 7039   |     | 2021 | 10 | 28 | 1050  | non     |  |  |    | non | non       | non                     | PM97   | JARL |
| 7039   |     | 2021 | 10 | 28 | 1220  | non     |  |  |    | non | non       | non                     | PM97   | JARL |
| 7039   |     | 2021 | 10 | 29 | 1050  | non     |  |  |    | non | non       | non                     | PM97   | JARL |
| 7039   |     | 2021 | 10 | 29 | 1220  | non     |  |  |    | non | non       | non                     | PM97   | JARL |
| 7039   | 0.5 | 2021 | 10 | 30 | 1050  | A1A     |  |  | 15 | RUS | M--signal | Beacon                  | PM97   | JARL |
| 7039   | 0.5 | 2021 | 10 | 30 | 1220  | A1A     |  |  | 15 | RUS | M--signal | Beacon                  | PM97   | JARL |
| 7039   |     | 2021 | 10 | 30 | 1420  | non     |  |  |    | non | non       | non                     | PM97   | JARL |
| 7039   | 0.5 | 2021 | 10 | 31 | 1010  | A1A     |  |  | 15 | RUS | M--signal | Beacon                  | PM97   | JARL |
| 7039   | 0.5 | 2021 | 10 | 31 | 1220  | A1A     |  |  | 15 | RUS | M--signal | Beacon                  | PM97   | JARL |
| 7039   |     | 2021 | 10 | 31 | 1420  | non     |  |  |    | non | non       | non                     | PM97   | JARL |
| 7040.0 | 0.3 | 2021 | 10 | 26 | 10:54 | A1A     |  |  |    |     |           | train of "M"            |        |      |
| 7055.0 | 6.0 | 2021 | 10 | 05 | 12:28 | Jamming |  |  |    |     |           | Signal RS:59            | PM84XT | JARL |
| 7123.9 | 3.0 | 2021 | 10 | 12 | 12:20 |         |  |  |    |     |           | /12/34/x8/4a/com/4482ar | PM84XT | JARL |

**NZART: 13 observations**

| kHz      | BW    | YYYY | Mon | DD  | GMT    | UTC  | Emm | Bd | Sft | Hdg | ADM | ID   | Description                                                             | Grid   | Society |
|----------|-------|------|-----|-----|--------|------|-----|----|-----|-----|-----|------|-------------------------------------------------------------------------|--------|---------|
| 14098    | 9,4   | 2021 | 10  | 20  | <0552> | 0552 | PXX |    |     |     | RUS | Unid | OTHR Russian 59 40 PPs constant                                         | RF73MF | ZL1GWE  |
| 14160,85 | 159,7 | 2021 | 10  | 23  | <0614> | 0614 | PXX |    |     |     | CHN | Unid | OTHR Chinese S7 51 second bursts wide bandwidth                         | RF73MF | ZL1GWE  |
| 14269,8  | 15,4  | 2021 | 10  | 20  | <0549> | 0549 | PXX |    |     |     | RUS | Unid | OTHR S9 40 pps constant                                                 | RF73MF | ZL1GWE  |
| 18074,2  | 15    | 2021 | 10  | 17  | <0532> | 0532 | PXX |    |     |     | RUS | Unid | OTHR Russian S4 15 pps 28 second bursts wide banadwidth                 | RF73MF | ZL1GWE  |
| 21102,6  | 21    | 2021 | 10  | 04` | <0135> | 0135 | PXX |    |     |     | CHN | Unid | OTHR Chinese S7 49 pps 5.25 second bursts                               | RF73MF | ZL1GWE  |
| 21109,2  | 40,8  | 201  | 10  |     | <0510> | 0510 | PXX |    |     |     | RUS | Unid | OTHR Russian S8 50 PPS 5.3 second bursts wide bandwidth dirty sidebands | RF73MF | ZL1GWE  |
| 21129,6  | 20,8  | 2021 | 10  | 10  | <0609> | 0609 | PXX |    |     |     | CYP | Unid | OTHR Cyprus S4 50 pps continuous                                        | RF73MF | ZL1GWE  |
| 21270,2  | 21    | 2021 | 10  | 4   | <0548> | 0548 | PXX |    |     |     | CYP | Unid | OTHR Cyprus S4 49 pps continuous                                        | RF73MF | ZL1GWE  |
| 21293,8  | 22,4  | 2021 | 10  | 4   | <0601> | 0601 | PXX |    |     |     | CHN | Unid | OTHR Chinese S7 49 pps 2.55 second bursts                               | RF73MF | ZL1GWE  |
| 21380    | 29,7  | 2021 | 10  | 3   | <0508> | 0508 | PXX |    |     |     | CHN | Unid | OTHR Chinese S8 67 pps 3.75 second bursts                               | RF73MF | ZL1GWE  |
| 21409,7  | 21,3  | 2021 | 10  | 27  | <0407> | 0407 | PXX |    |     |     | RUS | Unid | OTHR RuSSIAN S3 24 PPS continuous                                       | RF73MF | ZL1GWE  |
| 21413,3  | 10,4  | 2021 | 10  | 10  | <0555> | 0555 | PXX |    |     |     | CYP | Unid | OTHR Cyprus S4 50 pps continuous                                        | RF73MF | ZL1GWE  |
| 21445,5  | 22    | 2021 | 10  | 5   | <0557> | 0557 | PXX |    |     |     | CYP | Unid | OTHR Cyprus S3 50 pps continuous                                        | RF73MF | ZL1GWE  |

