



# INTERNATIONAL AMATEUR RADIO UNION

## REGION THREE

### MONITORING SYSTEM REPORT



**July 2012**

**Peter Young VK3MV**

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Reports for June were received from ARSI, JARL, NZART, and the WIA.

This month there were 1301 observations made across the Region, well up from last month of 761. Again this month there is an increase in the number of intrusions in the higher frequency bands, particular from NZART designated emissions "HF Man Pack" on all bands, and low power intruders from Asian countries on 10 meters by VK3TJ.

Further reports of HF Man Packs are requested to determine a location. See the details of frequencies and times below.

There are unconfirmed reports of a new DRM transmitter beginning tested for Korean Govt by a Chinese manufacturer. The freq is reported to be ~ 3560kHz.

The Burmese broadcast station is operating on 7110 kHz, and a number of OHR radars operating 40 and 20 meters bands have been reported to the Australian regulator. No information has been received back in relation to these intruders.

Thank you to all the regional observers for their reports, your reports are really appreciated. Keep them coming.

For those who would like a CSV file of data please email me at: [vk3mv@wia.org.au](mailto:vk3mv@wia.org.au)

Peter – VK3MV

| kHz    | BW | YYYY | MM | DD | GMT    | UTC   | Emm  | Bd | Sft | Hdg | ADM    | ID             | Description                     | Grid   | Society | Notes  |
|--------|----|------|----|----|--------|-------|------|----|-----|-----|--------|----------------|---------------------------------|--------|---------|--------|
| 3502   |    | 2012 | 07 | 08 | <0327> | 0327  | G7DF |    |     |     | ? Unid |                | HF Man Pack S2                  | RF73MF | NZART   | ZL1GWE |
| 3505   |    | 2012 | 07 | 01 | <0536> | 0536  | G7DF |    |     |     | ? Unid |                | HF Man Pack S3                  | RF73MF | NZART   | ZL1GWE |
| 3506   |    | 2012 | 07 | 08 | <0328> | 0328  | G7DF |    |     |     | ? Unid |                | HF Man Pack S2                  | Rf73Mf | NZART   | ZI1GWE |
| 3506   |    | 2012 | 07 | 17 | <0625> | 0625  | G7DF |    |     |     | ? Unid |                | HF Man Pack S2                  | RF73MF | NZART   | ZL1GWE |
| 3510   |    | 2012 | 19 | 19 | <2231> | 2231  | G7DF |    |     |     | ? Unid |                | HF Man Pack S3 8-PSK            | RF73MF | NZART   | ZL1GWE |
| 3515   |    | 2012 | 07 | 17 | <0613> | 0613  | g7df |    |     |     | ? Unid |                | HF Man Pack S2                  | RF73MF | NZART   | ZL1GWE |
| 3517   |    | 2012 | 07 | 22 | <0028> | 0028  | G7DF |    |     |     | ? Unid |                | HF Man Pack S1 8-PSK            | RF73MF | NZART   | ZL1GWE |
| 3520.0 | 3  | 2012 | 7  | 7  | 1940   |       | G7D  |    |     |     |        |                |                                 | QG52xi | WIA     | VK4TJ  |
| 3527   |    | 2012 | 07 | 22 | <0546> | 0546  | G7DF |    |     |     | ? Unid |                | HF Man Pack S3 8-PSK            | RF73MF | NZART   | ZL1GWE |
| 3530   |    | 2012 | 07 | 17 | <0631> | 0631  | G7DF |    |     |     | ? Unid |                | HF Man Pack S2                  | RF73MF | NZART   | ZL1GWE |
| 3538   |    | 2012 | 07 | 08 | <0334> | 0334  | G7DF |    |     |     | ? Unid |                | HF Man Pack S1                  | RF73MF | NZART   | ZL1GWE |
|        |    |      |    |    |        |       |      |    |     |     |        |                | Japanese Music with no callsign |        |         |        |
| 3540   | 3  | 2012 | 07 | 21 |        | 22:39 | J3E  |    |     |     |        |                |                                 |        | JARL    |        |
| 3548   |    | 2012 | 07 | 08 | <0328> | 0328  | G7DF |    |     |     | ? Unid |                | HF Man Pack S2                  | Rf73Mf | NZART   | ZL1GWE |
| 3550   |    | 2012 | 07 | 08 | <0344> | 0344  | F1B  |    |     |     | ? Unid |                | HF FAX S2 Commercial            | RF73MF | NZART   | ZL1GWE |
| 3551   |    | 2012 | 07 | 08 | <0329> | 0329  | G7DF |    |     |     | ? Unid |                | HF Man Pack S1                  | RF73MF | NZART   | ZL1GWE |
| 3552   |    | 2012 | 07 | 19 | <1926> | 1926  | G7D  |    |     |     | ? Unid |                | OFDM signal or DAB S4           | RF73MF | NZART   | ZL1GWE |
| 3554   |    | 2012 | 07 | 22 | <0549> | 0549  | G7DF |    |     |     | ? Unid |                | HF Man Pack S1 8-PSK            | RF73MF | NZART   | ZL1GWE |
|        |    |      |    |    |        |       |      |    |     |     |        |                | Japanese Music with no callsign |        |         |        |
| 3556   | 3  | 2012 | 07 | 21 |        | 22:44 | J3E  |    |     |     |        |                |                                 |        | JARL    |        |
| 3560.0 | 8  | 2012 | 7  | 12 | 2005   |       | A3E  |    |     |     | KRE    |                | DAILY SW BROADCAST              | QG52xi | WIA     | VK4TJ  |
|        |    |      |    |    |        |       |      |    |     |     |        |                | Chinese Talk and Music          |        |         |        |
| 3560   | 3  | 2012 | 07 | 11 | 1148   |       | A3E  |    |     | 321 | KRE    | Voice of Korea | Korean Talk and Music           | PM97   | JARL    | Kujang |
|        |    |      |    |    |        |       |      |    |     |     |        | Voice of Korea |                                 |        |         |        |
| 3560   | 3  | 2012 | 07 | 11 | 1204   |       | A3E  |    |     | 321 | KRE    | Voice of Korea | Chinese Talk and Music          | PM97   | JARL    | Kujang |
|        |    |      |    |    |        |       |      |    |     |     |        | Voice of Korea |                                 |        |         |        |
| 3560   | 3  | 2012 | 07 | 11 | 1304   |       | A3E  |    |     | 321 | KRE    | Voice of Korea | French Talk and Music           | PM97   | JARL    | Kujang |
|        |    |      |    |    |        |       |      |    |     |     |        | Voice of Korea |                                 |        |         |        |
| 3560   | 3  | 2012 | 07 | 11 | 1414   |       | A3E  |    |     | 321 | KRE    | Voice of Korea | Chinese Talk and Music          | PM97   | JARL    | Kujang |
|        |    |      |    |    |        |       |      |    |     |     |        | Voice of Korea |                                 |        |         |        |
| 3560   | 3  | 2012 | 07 | 11 | 1502   |       | A3E  |    |     | 321 | KRE    | Voice of Korea | English Talk and Music          | PM97   | JARL    | Kujang |
|        |    |      |    |    |        |       |      |    |     |     |        | Voice of Korea |                                 |        |         |        |
| 3560   | 3  | 2012 | 07 | 11 | 1602   |       | A3E  |    |     | 321 | KRE    | Voice of Korea | Korean Talk and Music           | PM97   | JARL    | Kujang |
|        |    |      |    |    |        |       |      |    |     |     |        | Voice of Korea |                                 |        |         |        |
| 3560   | 3  | 2012 | 07 | 11 | 1702   |       | A3E  |    |     | 321 | KRE    | Voice of Korea |                                 | PM97   | JARL    | Kujang |

|      |   |      |    |    |      |       |     |     |                |                        |                           |                     |      |        |
|------|---|------|----|----|------|-------|-----|-----|----------------|------------------------|---------------------------|---------------------|------|--------|
|      |   |      |    |    |      |       |     |     | Voice of Korea | Korean Talk and Music  |                           |                     |      |        |
| 3560 | 3 | 2012 | 07 | 11 | 1802 |       | A3E | 321 | KRE            |                        |                           | PM97                | JARL | Kujang |
|      |   |      |    |    |      |       |     |     | Voice of Korea | English Talk and Music |                           |                     |      |        |
| 3560 | 3 | 2012 | 07 | 12 | 1050 |       | A3E | 321 | KRE            |                        |                           | PM97                | JARL | Kujang |
|      |   |      |    |    |      |       |     |     | Voice of Korea | French Talk and Music  |                           |                     |      |        |
| 3560 | 3 | 2012 | 07 | 12 | 1102 |       | A3E | 321 | KRE            |                        |                           | PM97                | JARL | Kujang |
|      |   |      |    |    |      |       |     |     | Voice of Korea | Korean Talk and Music  |                           |                     |      |        |
| 3560 | 5 | 2012 | 07 | 12 | 1202 |       | A3E | 321 | KRE            |                        |                           | PM97                | JARL | Kujang |
|      |   |      |    |    |      |       |     |     | Voice of Korea | Chinese Talk and Music |                           |                     |      |        |
| 3560 | 5 | 2012 | 07 | 12 | 1302 |       | A3E | 321 | KRE            |                        |                           | PM97                | JARL | Kujang |
|      |   |      |    |    |      |       |     |     | Voice of Korea | Korean Talk and Music  |                           |                     |      |        |
| 3560 | 5 | 2012 | 07 | 12 | 1402 |       | A3E | 321 | KRE            |                        |                           | PM97                | JARL | Kujang |
|      |   |      |    |    |      |       |     |     | Voice of Korea | Spanish Talk and Music |                           |                     |      |        |
| 3560 | 5 | 2012 | 07 | 12 | 1502 |       | A3E | 321 | KRE            |                        |                           | PM97                | JARL | Kujang |
|      |   |      |    |    |      |       |     |     | Voice of Korea | English Talk and Music |                           |                     |      |        |
| 3560 | 5 | 2012 | 07 | 12 | 1602 |       | A3E | 321 | KRE            |                        |                           | PM97                | JARL | Kujang |
|      |   |      |    |    |      |       |     |     | Voice of Korea | Chinese Talk and Music |                           |                     |      |        |
| 3560 | 5 | 2012 | 07 | 12 | 1702 |       | A3E | 321 | KRE            |                        |                           | PM97                | JARL | Kujang |
|      |   |      |    |    |      |       |     |     | Voice of Korea | French Talk and Music  |                           |                     |      |        |
| 3560 | 5 | 2012 | 07 | 12 | 1802 |       | A3E | 321 | KRE            |                        |                           | PM97                | JARL | Kujang |
| 3560 | 6 | 2012 | 07 | 12 |      | 20:00 | A3E |     |                |                        | Music(Very strong signal) |                     | JARL |        |
| 3560 | 6 | 2012 | 07 | 12 |      | 20:00 | A3E |     |                |                        | Starting Music            |                     | JARL |        |
| 3560 | 1 | 2012 | 07 | 13 | 1226 |       | A0N |     | non            | non                    | Beacon                    |                     | JARL | non    |
|      |   |      |    |    |      |       |     |     |                |                        | no modulation             | this channel is KRE |      |        |
| 3560 | 1 | 2012 | 07 | 13 | 1416 |       | A0N |     | non            | non                    |                           |                     | JARL | non    |
|      |   |      |    |    |      |       |     |     |                |                        | no modulation             | this channel is KRE |      |        |
| 3560 | 1 | 2012 | 07 | 13 | 1610 |       | A0N |     | non            | non                    |                           |                     | JARL | non    |
|      |   |      |    |    |      |       |     |     |                |                        | no modulation             | this channel is KRE |      |        |
| 3560 | 1 | 2012 | 07 | 13 | 1704 |       | A0N |     | non            | non                    |                           |                     | JARL | non    |
|      |   |      |    |    |      |       |     |     |                |                        | no modulation             | this channel is KRE |      |        |
| 3560 | 1 | 2012 | 07 | 13 | 1806 |       | A0N |     | non            | non                    |                           |                     | JARL | non    |
|      |   |      |    |    |      |       |     |     |                |                        | no modulation             | this channel is KRE |      |        |
| 3560 | 1 | 2012 | 07 | 13 | 1924 |       | A0N |     | non            | non                    |                           |                     | JARL | non    |

|      |     |      |    |    |      |       |     |     |     |                |                        |      |      |        |
|------|-----|------|----|----|------|-------|-----|-----|-----|----------------|------------------------|------|------|--------|
|      |     |      |    |    |      |       |     |     |     | Voice of Korea | French Talk and Music  |      |      |        |
| 3560 | 3   | 2012 | 07 | 14 | 1102 |       | A3E | 321 | KRE | Voice of Korea |                        | PM97 | JARL | Kujang |
|      |     |      |    |    |      |       |     |     |     | Voice of Korea | Korean Talk and Music  |      |      |        |
| 3560 | 3   | 2012 | 07 | 14 | 1202 |       | A3E | 321 | KRE | Voice of Korea |                        | PM97 | JARL | Kujang |
|      |     |      |    |    |      |       |     |     |     | Voice of Korea | Chinese Talk and Music |      |      |        |
| 3560 | 3   | 2012 | 07 | 14 | 1302 |       | A3E | 321 | KRE | Voice of Korea |                        | PM97 | JARL | Kujang |
|      |     |      |    |    |      |       |     |     |     | Voice of Korea | Korean Talk and Music  |      |      |        |
| 3560 | 3   | 2012 | 07 | 14 | 1402 |       | A3E | 321 | KRE | Voice of Korea |                        | PM97 | JARL | Kujang |
|      |     |      |    |    |      |       |     |     |     | Voice of Korea | English Talk and Music |      |      |        |
| 3560 | 3   | 2012 | 07 | 14 | 1502 |       | A3E | 321 | KRE | Voice of Korea |                        | PM97 | JARL | Kujang |
|      |     |      |    |    |      |       |     |     |     | Voice of Korea | French Talk and Music  |      |      |        |
| 3560 | 3   | 2012 | 07 | 14 | 1602 |       | A3E | 321 | KRE | Voice of Korea |                        | PM97 | JARL | Kujang |
|      |     |      |    |    |      |       |     |     |     | Voice of Korea | Korean Talk and Music  |      |      |        |
| 3560 | 3   | 2012 | 07 | 14 | 1702 |       | A3E | 321 | KRE | Voice of Korea |                        | PM97 | JARL | Kujang |
|      |     |      |    |    |      |       |     |     |     | Voice of Korea | English Talk and Music |      |      |        |
| 3560 | 5   | 2012 | 07 | 14 | 1802 |       | A3E | 321 | KRE | Voice of Korea |                        | PM97 | JARL | Kujang |
|      |     |      |    |    |      |       |     |     |     | Voice of Korea | Spanish Talk and Music |      |      |        |
| 3560 | 5   | 2012 | 07 | 14 | 1902 |       | A3E | 321 | KRE | Voice of Korea |                        | PM97 | JARL | Kujang |
| 3560 | 0.5 | 2012 | 07 | 14 |      | 22:50 | A3E |     |     |                | News in English        |      | JARL |        |
|      |     |      |    |    |      |       |     |     |     |                | French Talk and Music  |      |      |        |
| 3560 | 3   | 2012 | 07 | 15 | 1102 |       | A3E | 321 | KRE | Voice of Korea |                        | PM97 | JARL | Kujang |
|      |     |      |    |    |      |       |     |     |     | Voice of Korea | Korean Talk and Music  |      |      |        |
| 3560 | 3   | 2012 | 07 | 15 | 1202 |       | A3E | 321 | KRE | Voice of Korea |                        | PM97 | JARL | Kujang |
|      |     |      |    |    |      |       |     |     |     | Voice of Korea | English Talk and Music |      |      |        |
| 3560 | 5   | 2012 | 07 | 15 | 1304 |       | A3E | 321 | KRE | Voice of Korea |                        | PM97 | JARL | Kujang |
|      |     |      |    |    |      |       |     |     |     | Voice of Korea | French Talk and Music  |      |      |        |
| 3560 | 5   | 2012 | 07 | 15 | 1402 |       | A3E | 321 | KRE | Voice of Korea |                        | PM97 | JARL | Kujang |
|      |     |      |    |    |      |       |     |     |     | Voice of Korea | English Talk and Music |      |      |        |
| 3560 | 5   | 2012 | 07 | 15 | 1502 |       | A3E | 321 | KRE | Voice of Korea |                        | PM97 | JARL | Kujang |

|      |   |      |    |    |      |     |     |     |                |                        |      |      |        |
|------|---|------|----|----|------|-----|-----|-----|----------------|------------------------|------|------|--------|
|      |   |      |    |    |      |     |     |     | Voice of Korea | French Talk and Music  |      |      |        |
| 3560 | 5 | 2012 | 07 | 15 | 1602 | A3E | 321 | KRE | Voice of Korea |                        | PM97 | JARL | Kujang |
|      |   |      |    |    |      |     |     |     | Voice of Korea | Korean Talk and Music  |      |      |        |
| 3560 | 5 | 2012 | 07 | 15 | 1702 | A3E | 321 | KRE | Voice of Korea |                        | PM97 | JARL | Kujang |
|      |   |      |    |    |      |     |     |     | Voice of Korea | English Talk and Music |      |      |        |
| 3560 | 5 | 2012 | 07 | 15 | 1802 | A3E | 321 | KRE | Voice of Korea |                        | PM97 | JARL | Kujang |
|      |   |      |    |    |      |     |     |     | Voice of Korea | Spanish Talk and Music |      |      |        |
| 3560 | 5 | 2012 | 07 | 15 | 1902 | A3E | 321 | KRE | Voice of Korea |                        | PM97 | JARL | Kujang |
|      |   |      |    |    |      |     |     |     | Voice of Korea | Korean Talk and Music  |      |      |        |
| 3560 | 3 | 2012 | 07 | 16 | 1102 | A3E | 321 | KRE | Voice of Korea |                        | PM97 | JARL | Kujang |
|      |   |      |    |    |      |     |     |     | Voice of Korea | Chinese Talk and Music |      |      |        |
| 3560 | 5 | 2012 | 07 | 16 | 1202 | A3E | 321 | KRE | Voice of Korea |                        | PM97 | JARL | Kujang |
|      |   |      |    |    |      |     |     |     | Voice of Korea | English Talk and Music |      |      |        |
| 3560 | 5 | 2012 | 07 | 16 | 1302 | A3E | 321 | KRE | Voice of Korea |                        | PM97 | JARL | Kujang |
|      |   |      |    |    |      |     |     |     | Voice of Korea | French Talk and Music  |      |      |        |
| 3560 | 5 | 2012 | 07 | 16 | 1402 | A3E | 321 | KRE | Voice of Korea |                        | PM97 | JARL | Kujang |
|      |   |      |    |    |      |     |     |     | Voice of Korea | English Talk and Music |      |      |        |
| 3560 | 5 | 2012 | 07 | 16 | 1502 | A3E | 321 | KRE | Voice of Korea |                        | PM97 | JARL | Kujang |
|      |   |      |    |    |      |     |     |     | Voice of Korea | French Talk and Music  |      |      |        |
| 3560 | 5 | 2012 | 07 | 16 | 1602 | A3E | 321 | KRE | Voice of Korea |                        | PM97 | JARL | Kujang |
|      |   |      |    |    |      |     |     |     | Voice of Korea | Korean Talk and Music  |      |      |        |
| 3560 | 5 | 2012 | 07 | 16 | 1702 | A1A | 321 | KRE | Voice of Korea |                        | PM97 | JARL | Kujang |
|      |   |      |    |    |      |     |     |     | Voice of Korea | English Talk and Music |      |      |        |
| 3560 | 5 | 2012 | 07 | 16 | 1802 | A3E | 321 | KRE | Voice of Korea |                        | PM97 | JARL | Kujang |
|      |   |      |    |    |      |     |     |     | Voice of Korea | Korean Talk and Music  |      |      |        |
| 3560 | 3 | 2012 | 07 | 17 | 1130 | A3E | 321 | KRE | Voice of Korea |                        | PM97 | JARL | Kujang |
|      |   |      |    |    |      |     |     |     | Voice of Korea | Korean Talk and Music  |      |      |        |
| 3560 | 3 | 2012 | 07 | 17 | 1202 | A3E | 321 | KRE | Voice of Korea |                        | PM97 | JARL | Kujang |
|      |   |      |    |    |      |     |     |     | Voice of Korea | English Talk and Music |      |      |        |
| 3560 | 3 | 2012 | 07 | 17 | 1302 | A3E | 321 | KRE | Voice of Korea |                        | PM97 | JARL | Kujang |

|      |   |      |    |    |      |       |     |     |     |                |                        |      |      |        |
|------|---|------|----|----|------|-------|-----|-----|-----|----------------|------------------------|------|------|--------|
|      |   |      |    |    |      |       |     |     |     | Voice of Korea | French Talk and Music  |      |      |        |
| 3560 | 5 | 2012 | 07 | 17 | 1402 |       | A3E | 321 | KRE | Voice of Korea | English Talk and Music | PM97 | JARL | Kujang |
| 3560 | 5 | 2012 | 07 | 17 | 1502 |       | A3E | 321 | KRE | Voice of Korea | French Talk and Music  | PM97 | JARL | Kujang |
| 3560 | 5 | 2012 | 07 | 17 | 1602 |       | A3E | 321 | KRE | Voice of Korea | Korean Talk and Music  | PM97 | JARL | Kujang |
| 3560 | 5 | 2012 | 07 | 17 | 1702 |       | A3E | 321 | KRE | Voice of Korea | English Talk and Music | PM97 | JARL | Kujang |
| 3560 | 5 | 2012 | 07 | 17 | 1802 |       | A3E | 321 | KRE | Voice of Korea | French Talk and Music  | PM97 | JARL | Kujang |
| 3560 | 5 | 2012 | 07 | 18 | 1602 |       | A3E | 321 | KRE | Voice of Korea | Korean Talk and Music  | PM97 | JARL | Kujang |
| 3560 | 5 | 2012 | 07 | 18 | 1702 |       | A3E | 321 | KRE | Voice of Korea | English Talk and Music | PM97 | JARL | Kujang |
| 3560 | 5 | 2012 | 07 | 18 | 1802 |       | A3E | 321 | KRE | Voice of Korea | Music                  | PM97 | JARL | Kujang |
| 3560 | 6 | 2012 | 07 | 18 |      | 23:42 | A3E |     |     |                | Chinese Talk and Music | JARL |      |        |
| 3560 | 4 | 2012 | 07 | 19 | 1102 |       | A3E | 321 | KRE | Voice of Korea | Korean Talk and Music  | PM97 | JARL | Kujang |
| 3560 | 5 | 2012 | 07 | 19 | 1202 |       | A3E | 321 | KRE | Voice of Korea | English Talk and Music | PM97 | JARL | Kujang |
| 3560 | 5 | 2012 | 07 | 19 | 1302 |       | A3E | 321 | KRE | Voice of Korea | French Talk and Music  | PM97 | JARL | Kujang |
| 3560 | 5 | 2012 | 07 | 19 | 1402 |       | A3E | 321 | KRE | Voice of Korea | English Talk and Music | PM97 | JARL | Kujang |
| 3560 | 5 | 2012 | 07 | 19 | 1502 |       | A3E | 321 | KRE | Voice of Korea | Spanish Talk and Music | PM97 | JARL | Kujang |
| 3560 | 5 | 2012 | 07 | 19 | 1602 |       | A3E | 321 | KRE | Voice of Korea |                        | PM97 | JARL | Kujang |

|      |   |      |    |    |      |     |     |     |                |                        |  |      |      |        |
|------|---|------|----|----|------|-----|-----|-----|----------------|------------------------|--|------|------|--------|
|      |   |      |    |    |      |     |     |     | Voice of Korea | Korean Talk and Music  |  |      |      |        |
| 3560 | 5 | 2012 | 07 | 19 | 1702 |     | A3E | 321 | KRE            |                        |  | PM97 | JARL | Kujang |
|      |   |      |    |    |      |     |     |     | Voice of Korea | English Talk and Music |  |      |      |        |
| 3560 | 5 | 2012 | 07 | 19 | 1802 |     | A3E | 321 | KRE            |                        |  | PM97 | JARL | Kujang |
|      |   |      |    |    |      |     |     |     | Voice of Korea | Chinese Talk and Music |  |      |      |        |
| 3560 | 3 | 2012 | 07 | 20 | 1102 |     | A3E | 321 | KRE            |                        |  | PM97 | JARL | Kujang |
|      |   |      |    |    |      |     |     |     | Voice of Korea | English Talk and Music |  |      |      |        |
| 3560 | 5 | 2012 | 07 | 20 | 1202 |     | A3E | 321 | KRE            |                        |  | PM97 | JARL | Kujang |
|      |   |      |    |    |      |     |     |     | Voice of Korea | French Talk and Music  |  |      |      |        |
| 3560 | 5 | 2012 | 07 | 20 | 1302 |     | A3E | 321 | KRE            |                        |  | PM97 | JARL | Kujang |
|      |   |      |    |    |      |     |     |     | Voice of Korea | English Talk and Music |  |      |      |        |
| 3560 | 5 | 2012 | 07 | 20 | 1402 |     | A3E | 321 | KRE            |                        |  | PM97 | JARL | Kujang |
|      |   |      |    |    |      |     |     |     | Voice of Korea | French Talk and Music  |  |      |      |        |
| 3560 | 5 | 2012 | 07 | 20 | 1502 |     | A3E | 321 | KRE            |                        |  | PM97 | JARL | Kujang |
|      |   |      |    |    |      |     |     |     | Voice of Korea | Korean Talk and Music  |  |      |      |        |
| 3560 | 5 | 2012 | 07 | 20 | 1602 |     | A3E | 321 | KRE            |                        |  | PM97 | JARL | Kujang |
|      |   |      |    |    |      |     |     |     | Voice of Korea | English Talk and Music |  |      |      |        |
| 3560 | 5 | 2012 | 07 | 20 | 1702 |     | A3E | 321 | KRE            |                        |  | PM97 | JARL | Kujang |
|      |   |      |    |    |      |     |     |     | Voice of Korea | Chinese Talk and Music |  |      |      |        |
| 3560 | 3 | 2012 | 07 | 21 | 1102 |     | A3E | 321 | KRE            |                        |  | PM97 | JARL | Kujang |
|      |   |      |    |    |      |     |     |     | Voice of Korea | English Talk and Music |  |      |      |        |
| 3560 | 3 | 2012 | 07 | 21 | 1202 | H24 | A3E | 321 | KRE            |                        |  | PM97 | JARL | Kujang |
|      |   |      |    |    |      |     |     |     | Voice of Korea | French Talk and Music  |  |      |      |        |
| 3560 | 5 | 2012 | 07 | 21 | 1302 |     | A3E | 321 | KRE            |                        |  | PM97 | JARL | Kujang |
|      |   |      |    |    |      |     |     |     | Voice of Korea | English Talk and Music |  |      |      |        |
| 3560 | 5 | 2012 | 07 | 21 | 1402 |     | A3E | 321 | KRE            |                        |  | PM97 | JARL | Kujang |
|      |   |      |    |    |      |     |     |     | Voice of Korea | French Talk and Music  |  |      |      |        |
| 3560 | 5 | 2012 | 07 | 21 | 1502 |     | A3E | 321 | KRE            |                        |  | PM97 | JARL | Kujang |
|      |   |      |    |    |      |     |     |     | Voice of Korea | Korean Talk and Music  |  |      |      |        |
| 3560 | 5 | 2012 | 07 | 21 | 1602 |     | A3E | 321 | KRE            |                        |  | PM97 | JARL | Kujang |

|      |   |      |    |    |      |       |     |     |     |                |                        |      |      |        |
|------|---|------|----|----|------|-------|-----|-----|-----|----------------|------------------------|------|------|--------|
|      |   |      |    |    |      |       |     |     |     | Voice of Korea | English Talk and Music |      |      |        |
| 3560 | 5 | 2012 | 07 | 21 | 1702 |       | A3E | 321 | KRE |                |                        | PM97 | JARL | Kujang |
|      |   |      |    |    |      |       |     |     |     | Voice of Korea | Chinese Talk and Music |      |      |        |
| 3560 | 3 | 2012 | 07 | 22 | 1102 |       | A3E | 321 | KRE |                |                        | PM97 | JARL | Kujang |
|      |   |      |    |    |      |       |     |     |     | Voice of Korea | English Talk and Music |      |      |        |
| 3560 | 3 | 2012 | 07 | 22 | 1202 |       | A3E | 321 | KRE |                |                        | PM97 | JARL | Kujang |
|      |   |      |    |    |      |       |     |     |     | Voice of Korea | French Talk and Music  |      |      |        |
| 3560 | 5 | 2012 | 07 | 22 | 1302 |       | A3E | 321 | KRE |                |                        | PM97 | JARL | Kujang |
|      |   |      |    |    |      |       |     |     |     | Voice of Korea | English Talk and Music |      |      |        |
| 3560 | 5 | 2012 | 07 | 22 | 1402 |       | A3E | 321 | KRE |                |                        | PM97 | JARL | Kujang |
|      |   |      |    |    |      |       |     |     |     | Voice of Korea | French Talk and Music  |      |      |        |
| 3560 | 5 | 2012 | 07 | 22 | 1502 |       | A3E | 321 | KRE |                |                        | PM97 | JARL | Kujang |
|      |   |      |    |    |      |       |     |     |     | Voice of Korea | Korean Talk and Music  |      |      |        |
| 3560 | 5 | 2012 | 07 | 22 | 1602 |       | A3E | 321 | KRE |                |                        | PM97 | JARL | Kujang |
|      |   |      |    |    |      |       |     |     |     | Voice of Korea | Spanish Talk and Music |      |      |        |
| 3560 | 5 | 2012 | 07 | 22 | 1930 |       | A3E | 321 | KRE |                |                        | PM97 | JARL | Kujang |
| 3560 | 6 | 2012 | 07 | 22 |      | 22:40 | A3E |     |     |                | Music(Voice of Korea)  |      | JARL |        |
|      |   |      |    |    |      |       |     |     |     |                | Chinese Talk and Music |      |      |        |
|      |   |      |    |    |      |       |     |     |     | Voice of Korea |                        |      |      |        |
| 3560 | 4 | 2012 | 07 | 23 | 1102 |       | A3E | 321 | KRE |                |                        | PM97 | JARL | Kujang |
|      |   |      |    |    |      |       |     |     |     | Voice of Korea | Korean Talk and Music  |      |      |        |
|      |   |      |    |    |      |       |     |     |     | Voice of Korea |                        |      |      |        |
| 3560 | 4 | 2012 | 07 | 23 | 1202 |       | A3E | 321 | KRE |                |                        | PM97 | JARL | Kujang |
|      |   |      |    |    |      |       |     |     |     | Voice of Korea | English Talk and Music |      |      |        |
|      |   |      |    |    |      |       |     |     |     | Voice of Korea |                        |      |      |        |
| 3560 | 5 | 2012 | 07 | 23 | 1302 |       | A3E | 321 | KRE |                |                        | PM97 | JARL | Kujang |
|      |   |      |    |    |      |       |     |     |     | Voice of Korea | English Talk and Music |      |      |        |
|      |   |      |    |    |      |       |     |     |     | Voice of Korea |                        |      |      |        |
| 3560 | 5 | 2012 | 07 | 23 | 1402 |       | A3E | 321 | KRE |                |                        | PM97 | JARL | Kujang |
|      |   |      |    |    |      |       |     |     |     | Voice of Korea | French Talk and Music  |      |      |        |
|      |   |      |    |    |      |       |     |     |     | Voice of Korea |                        |      |      |        |
| 3560 | 5 | 2012 | 07 | 23 | 1502 |       | A3E | 321 | KRE |                |                        | PM97 | JARL | Kujang |
|      |   |      |    |    |      |       |     |     |     | Voice of Korea | Korean Talk and Music  |      |      |        |
|      |   |      |    |    |      |       |     |     |     | Voice of Korea |                        |      |      |        |
| 3560 | 5 | 2012 | 07 | 23 | 1602 |       | A3E | 321 | KRE |                |                        | PM97 | JARL | Kujang |



|      |   |      |    |    |      |       |     |     |     |                |                        |      |      |        |
|------|---|------|----|----|------|-------|-----|-----|-----|----------------|------------------------|------|------|--------|
|      |   |      |    |    |      |       |     |     |     | Voice of Korea | English Talk and Music |      |      |        |
| 3560 | 5 | 2012 | 07 | 23 | 1702 |       | A3E | 321 | KRE |                |                        | PM97 | JARL | Kujang |
|      |   |      |    |    |      |       |     |     |     | Voice of Korea | Korean Talk and Music  |      |      |        |
| 3560 | 3 | 2012 | 07 | 24 | 1040 |       | A3E | 321 | KRE |                |                        | PM97 | JARL | Kujang |
|      |   |      |    |    |      |       |     |     |     | Voice of Korea | Chinese Talk and Music |      |      |        |
| 3560 | 4 | 2012 | 07 | 24 | 1102 |       | A3E | 321 | KRE |                |                        | PM97 | JARL | Kujang |
|      |   |      |    |    |      |       |     |     |     | Voice of Korea | English Talk and Music |      |      |        |
| 3560 | 4 | 2012 | 07 | 24 | 1202 |       | A3E | 321 | KRE |                |                        | PM97 | JARL | Kujang |
|      |   |      |    |    |      |       |     |     |     | Voice of Korea | English Talk and Music |      |      |        |
| 3560 | 5 | 2012 | 07 | 24 | 1302 |       | A3E | 321 | KRE |                |                        | PM97 | JARL | Kujang |
|      |   |      |    |    |      |       |     |     |     | Voice of Korea | French Talk and Music  |      |      |        |
| 3560 | 5 | 2012 | 07 | 24 | 1402 |       | A3E | 321 | KRE |                |                        | PM97 | JARL | Kujang |
|      |   |      |    |    |      |       |     |     |     | Voice of Korea | English Talk and Music |      |      |        |
| 3560 | 5 | 2012 | 07 | 24 | 1502 |       | A3E | 321 | KRE |                |                        | PM97 | JARL | Kujang |
|      |   |      |    |    |      |       |     |     |     | Voice of Korea | French Talk and Music  |      |      |        |
| 3560 | 5 | 2012 | 07 | 24 | 1602 |       | A3E | 321 | KRE |                |                        | PM97 | JARL | Kujang |
|      |   |      |    |    |      |       |     |     |     | Voice of Korea | Korean Talk and Music  |      |      |        |
| 3560 | 5 | 2012 | 07 | 24 | 1702 |       | A3E | 321 | KRE |                |                        | PM97 | JARL | Kujang |
|      |   |      |    |    |      |       |     |     |     | Voice of Korea | English Talk and Music |      |      |        |
| 3560 | 5 | 2012 | 07 | 24 | 1802 |       | A3E | 321 | KRE |                |                        | PM97 | JARL | Kujang |
| 3560 | 6 | 2012 | 07 | 24 |      | 20:11 | A3E |     |     |                | Music                  |      | JARL |        |
|      |   |      |    |    |      |       |     |     |     | Voice of Korea | Chinese Talk and Music |      |      |        |
| 3560 | 4 | 2012 | 07 | 25 | 1102 |       | A3E | 321 | KRE |                |                        | PM97 | JARL | Kujang |
|      |   |      |    |    |      |       |     |     |     | Voice of Korea | Korean Talk and Music  |      |      |        |
| 3560 | 4 | 2012 | 07 | 25 | 1202 |       | A3E | 321 | KRE |                |                        | PM97 | JARL | Kujang |
|      |   |      |    |    |      |       |     |     |     | Voice of Korea | English Talk and Music |      |      |        |
| 3560 | 5 | 2012 | 07 | 25 | 1302 |       | A3E | 321 | KRE |                |                        | PM97 | JARL | Kujang |
|      |   |      |    |    |      |       |     |     |     | Voice of Korea | French Talk and Music  |      |      |        |
| 3560 | 5 | 2012 | 07 | 25 | 1402 |       | A3E | 321 | KRE |                |                        | PM97 | JARL | Kujang |

|      |   |      |    |    |      |       |     |     |     |                |                        |      |      |        |
|------|---|------|----|----|------|-------|-----|-----|-----|----------------|------------------------|------|------|--------|
|      |   |      |    |    |      |       |     |     |     | Voice of Korea | English Talk and Music |      |      |        |
| 3560 | 5 | 2012 | 07 | 25 | 1502 |       | A3E | 321 | KRE | Voice of Korea |                        | PM97 | JARL | Kujang |
|      |   |      |    |    |      |       |     |     |     | Voice of Korea | French Talk and Music  |      |      |        |
| 3560 | 5 | 2012 | 07 | 25 | 1602 |       | A3E | 321 | KRE | Voice of Korea |                        | PM97 | JARL | Kujang |
|      |   |      |    |    |      |       |     |     |     | Voice of Korea | Korean Talk and Music  |      |      |        |
| 3560 | 5 | 2012 | 07 | 25 | 1702 |       | A3E | 321 | KRE | Voice of Korea |                        | PM97 | JARL | Kujang |
|      |   |      |    |    |      |       |     |     |     | Voice of Korea | English Talk and Music |      |      |        |
| 3560 | 5 | 2012 | 07 | 25 | 1802 | H24   | A3E | 321 | KRE | Voice of Korea |                        | PM97 | JARL | Kujang |
| 3560 | 6 | 2012 | 07 | 25 |      | 21:56 | A3E |     |     |                | Music                  |      | JARL |        |
| 3560 | 6 | 2012 | 07 | 25 |      | 22:13 | A3E |     |     |                | News in English        |      | JARL |        |
|      |   |      |    |    |      |       |     |     |     |                | Chinese Talk and Music |      |      |        |
|      |   |      |    |    |      |       |     |     |     | Voice of Korea |                        |      |      |        |
| 3560 | 4 | 2012 | 07 | 26 | 1102 |       | A3E | 321 | KRE | Voice of Korea |                        | PM97 | JARL | Kujang |
|      |   |      |    |    |      |       |     |     |     | Voice of Korea | Korean Talk and Music  |      |      |        |
| 3560 | 4 | 2012 | 07 | 26 | 1202 |       | A3E | 321 | KRE | Voice of Korea |                        | PM97 | JARL | Kujang |
|      |   |      |    |    |      |       |     |     |     | Voice of Korea | English Talk and Music |      |      |        |
| 3560 | 4 | 2012 | 07 | 26 | 1302 |       | A3E | 321 | KRE | Voice of Korea |                        | PM97 | JARL | Kujang |
|      |   |      |    |    |      |       |     |     |     | Voice of Korea | French Talk and Music  |      |      |        |
| 3560 | 5 | 2012 | 07 | 26 | 1402 |       | A3E | 321 | KRE | Voice of Korea |                        | PM97 | JARL | Kujang |
|      |   |      |    |    |      |       |     |     |     | Voice of Korea | English Talk and Music |      |      |        |
| 3560 | 5 | 2012 | 07 | 26 | 1502 |       | A3E | 321 | KRE | Voice of Korea |                        | PM97 | JARL | Kujang |
|      |   |      |    |    |      |       |     |     |     | Voice of Korea | French Talk and Music  |      |      |        |
| 3560 | 5 | 2012 | 07 | 26 | 1602 |       | A3E | 321 | KRE | Voice of Korea |                        | PM97 | JARL | Kujang |
|      |   |      |    |    |      |       |     |     |     | Voice of Korea | Korean Talk and Music  |      |      |        |
| 3560 | 5 | 2012 | 07 | 26 | 1702 |       | A3E | 321 | KRE | Voice of Korea |                        | PM97 | JARL | Kujang |
|      |   |      |    |    |      |       |     |     |     | Voice of Korea | English Talk and Music |      |      |        |
| 3560 | 5 | 2012 | 07 | 26 | 1802 |       | A3E | 321 | KRE | Voice of Korea |                        | PM97 | JARL | Kujang |
|      |   |      |    |    |      |       |     |     |     | Voice of Korea | Korean Talk and Music  |      |      |        |
| 3560 | 4 | 2012 | 07 | 27 | 1202 |       | A3E | 321 | KRE | Voice of Korea |                        | PM97 | JARL | Kujang |
|      |   |      |    |    |      |       |     |     |     | Voice of Korea | English Talk and Music |      |      |        |
| 3560 | 4 | 2012 | 07 | 27 | 1302 |       | A3E | 321 | KRE | Voice of Korea |                        | PM97 | JARL | Kujang |

|      |   |      |    |    |      |     |     |     |  |                |                        |      |      |        |
|------|---|------|----|----|------|-----|-----|-----|--|----------------|------------------------|------|------|--------|
|      |   |      |    |    |      |     |     |     |  | Voice of Korea | French Talk and Music  |      |      |        |
| 3560 | 4 | 2012 | 07 | 27 | 1402 | A3E | 321 | KRE |  |                |                        | PM97 | JARL | Kujang |
|      |   |      |    |    |      |     |     |     |  | Voice of Korea | English Talk and Music |      |      |        |
| 3560 | 4 | 2012 | 07 | 27 | 1502 | A3E | 321 | KRE |  |                |                        | PM97 | JARL | Kujang |
|      |   |      |    |    |      |     |     |     |  | Voice of Korea | French Talk and Music  |      |      |        |
| 3560 | 5 | 2012 | 07 | 27 | 1602 | A3E | 321 | KRE |  |                |                        | PM97 | JARL | Kujang |
|      |   |      |    |    |      |     |     |     |  | Voice of Korea | Korean Talk and Music  |      |      |        |
| 3560 | 5 | 2012 | 07 | 27 | 1702 | A3E | 321 | KRE |  |                |                        | PM97 | JARL | Kujang |
|      |   |      |    |    |      |     |     |     |  | Voice of Korea | English Talk and Music |      |      |        |
| 3560 | 5 | 2012 | 07 | 27 | 1802 | A3E | 321 | KRE |  |                |                        | PM97 | JARL | Kujang |
|      |   |      |    |    |      |     |     |     |  | Voice of Korea | Chinese Talk and Music |      |      |        |
| 3560 | 4 | 2012 | 07 | 28 | 1102 | A3E | 321 | KRE |  |                |                        | PM97 | JARL | Kujang |
|      |   |      |    |    |      |     |     |     |  | Voice of Korea | Korean Talk and Music  |      |      |        |
| 3560 | 4 | 2012 | 07 | 28 | 1202 | A3E | 321 | KRE |  |                |                        | PM97 | JARL | Kujang |
|      |   |      |    |    |      |     |     |     |  | Voice of Korea | English Talk and Music |      |      |        |
| 3560 | 4 | 2012 | 07 | 28 | 1302 | A3E | 321 | KRE |  |                |                        | PM97 | JARL | Kujang |
|      |   |      |    |    |      |     |     |     |  | Voice of Korea | French Talk and Music  |      |      |        |
| 3560 | 4 | 2012 | 07 | 28 | 1402 | A3E | 321 | KRE |  |                |                        | PM97 | JARL | Kujang |
|      |   |      |    |    |      |     |     |     |  | Voice of Korea | English Talk and Music |      |      |        |
| 3560 | 5 | 2012 | 07 | 28 | 1502 | A3E | 321 | KRE |  | F-- signal     |                        | PM97 | JARL | Kujang |
|      |   |      |    |    |      |     |     |     |  | Voice of Korea | French Talk and Music  |      |      |        |
| 3560 | 5 | 2012 | 07 | 28 | 1602 | A3E | 321 | KRE |  |                |                        | PM97 | JARL | Kujang |
|      |   |      |    |    |      |     |     |     |  | Voice of Korea | Korean Talk and Music  |      |      |        |
| 3560 | 5 | 2012 | 07 | 28 | 1702 | A3E | 321 | KRE |  |                |                        | PM97 | JARL | Kujang |
|      |   |      |    |    |      |     |     |     |  | Voice of Korea | English Talk and Music |      |      |        |
| 3560 | 5 | 2012 | 07 | 28 | 1802 | A3E | 321 | KRE |  |                |                        | PM97 | JARL | Kujang |
|      |   |      |    |    |      |     |     |     |  | Voice of Korea | Korean Talk and Music  |      |      |        |
| 3560 | 3 | 2012 | 07 | 29 | 1202 | A3E | 321 | KRE |  |                |                        | PM97 | JARL | Kujang |
|      |   |      |    |    |      |     |     |     |  | Voice of Korea | French Talk and Music  |      |      |        |
| 3560 | 5 | 2012 | 07 | 29 | 1602 | A3E | 321 | KRE |  |                |                        | PM97 | JARL | Kujang |

|         |     |      |    |    |        |           |       |     |     |                |                                                                                                                                               |        |       |        |
|---------|-----|------|----|----|--------|-----------|-------|-----|-----|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------|-------|--------|
|         |     |      |    |    |        |           |       |     |     | Voice of Korea | English Talk and Music                                                                                                                        |        |       |        |
| 3560    | 5   | 2012 | 07 | 29 | 1802   |           | A3E   | 321 | KRE | Voice of Korea |                                                                                                                                               | PM97   | JARL  | Kujang |
|         |     |      |    |    |        |           |       |     |     | Voice of Korea | Korean Talk and Music                                                                                                                         |        |       |        |
| 3560    | 4   | 2012 | 07 | 30 | 1202   |           | A3E   | 321 | KRE | Voice of Korea |                                                                                                                                               | PM97   | JARL  | Kujang |
|         |     |      |    |    |        |           |       |     |     | Voice of Korea | French Talk and Music                                                                                                                         |        |       |        |
| 3560    | 5   | 2012 | 07 | 30 | 1602   |           | A3E   | 321 | KRE | Voice of Korea |                                                                                                                                               | PM97   | JARL  | Kujang |
|         |     |      |    |    |        |           |       |     |     | Voice of Korea | Korean Talk and Music                                                                                                                         |        |       |        |
| 3560    | 5   | 2012 | 07 | 30 | 1702   |           | A3E   | 321 | KRE | Voice of Korea |                                                                                                                                               | PM97   | JARL  | Kujang |
|         |     |      |    |    |        |           |       |     |     | Voice of Korea | English Talk and Music                                                                                                                        |        |       |        |
| 3560    | 5   | 2012 | 07 | 30 | 1802   |           | A3E   | 321 | KRE | Voice of Korea |                                                                                                                                               | PM97   | JARL  | Kujang |
|         |     |      |    |    |        |           |       |     |     | Voice of Korea | Korean Talk and Music                                                                                                                         |        |       |        |
| 3560    | 3   | 2012 | 07 | 31 | 1202   |           | A3E   | 321 | KRE | Voice of Korea |                                                                                                                                               | PM97   | JARL  | Kujang |
|         |     |      |    |    |        |           |       |     |     | Voice of Korea | French Talk and Music                                                                                                                         |        |       |        |
| 3560    | 4   | 2012 | 07 | 31 | 1602   |           | A3E   | 321 | KRE | Voice of Korea |                                                                                                                                               | PM97   | JARL  | Kujang |
|         |     |      |    |    |        |           |       |     |     | Voice of Korea | Korean Talk and Music                                                                                                                         |        |       |        |
| 3560    | 4   | 2012 | 07 | 31 | 1702   |           | A3E   | 321 | KRE | Voice of Korea |                                                                                                                                               | PM97   | JARL  | Kujang |
|         |     |      |    |    |        |           |       |     |     | Voice of Korea | English Talk and Music                                                                                                                        |        |       |        |
| 3560    | 4   | 2012 | 07 | 31 | 1802   |           | A3E   | 321 | KRE | Voice of Korea |                                                                                                                                               | PM97   | JARL  | Kujang |
| 3560    | 6   | 2012 | 07 | 31 |        | 01:47     | A3E   |     |     |                | News(?) in (?)                                                                                                                                |        | JARL  |        |
| 3560    |     | 2012 | 07 | 19 | <1928> | 1928      | N0N   |     | ?   | Unid           | Carrier QSB S6                                                                                                                                | RF73MF | NZART | ZL1GWE |
| 3568    | 2.4 | 2012 | 07 | 01 | <0740> | 0740-0730 | JE3/U |     | ?   | Unid           | Fishing boats S7                                                                                                                              | RF73IJ | NZART | ZL1TPH |
| 3568    | 2.4 | 2012 | 07 | 02 | <0656> | 0656-0700 | JE3/U |     | ?   | Unid           | Fishing boats S7                                                                                                                              | RF73IJ | NZART | ZL1TPH |
| 3568    | 2.4 | 2012 | 07 | 06 | <0640> | 0640-0655 | JE3/U |     | ?   | Unid           | Fishing boats S7                                                                                                                              | RF73IJ | NZART | ZL1TPH |
|         |     |      |    |    |        |           |       |     |     |                | Fishing boats S9 (first heard 0555 then QRT at 0630)                                                                                          |        |       |        |
| 3568    | 2.4 | 2012 | 07 | 08 | <0555> | 0555-0603 | JE3/U |     | ?   | Unid           |                                                                                                                                               | RF73IJ | NZART | ZL1TPH |
|         |     |      |    |    |        |           |       |     |     |                | Fishing boats S7 ( toward the end of their evening chat)                                                                                      |        |       |        |
| 3568    | 2.4 | 2012 | 07 | 11 | <0655> | 0650-0655 | JE3/U |     | ?   | Unid           |                                                                                                                                               | RF73IJ | NZART | ZL1TPH |
| 3569    |     | 2012 | 07 | 22 | <0625> | 0625-0648 | J3E/U |     | ?   | Unid           | Fishing boats                                                                                                                                 | RF73IJ | NZART | ZL1TPH |
|         |     |      |    |    |        |           |       |     |     |                | <a href="http://www.youtube.com/watch?v=spH1xc8ydnM&amp;feature=youtu.be">http://www.youtube.com/watch?v=spH1xc8ydnM&amp;feature=youtu.be</a> |        |       |        |
| 3569.77 | 2.4 | 2012 | 07 | 22 | <0625> | 0625-0648 | JE3/U |     | ?   | Unid           |                                                                                                                                               | RF73IJ | NZART | ZL1TPH |

|        |     |      |    |    |        |           |       |   |      |                                      |        |       |        |
|--------|-----|------|----|----|--------|-----------|-------|---|------|--------------------------------------|--------|-------|--------|
|        |     |      |    |    |        |           |       |   |      | Indonesians Non Amateurs chatting S4 |        |       |        |
| 3580   |     | 2012 | 07 | 18 | <1935> | 1935-0745 | J3E/U | ? | Unid |                                      | RF73MF | NZART | ZL1GWE |
| 3581   |     | 2012 | 07 | 22 | <0553> | 0553      | G7DF  | ? | Unid | HF Man Pack S2 8-PSK                 | RF73MF | NZART | ZL1GWE |
| 3584.0 | 3   | 2012 | 7  | 2  | 1935   |           | J1C   |   |      | DAILY                                | QG52xi | WIA   | VK4TJ  |
| 3584   |     | 2012 | 07 | 01 | <0333> | 0333      | G7DF  | ? | Unid | HF Man Pack S1                       | RF73MF | NZART | ZL1GWE |
| 3586   |     | 2012 | 07 | 17 | <0634> | 0634      | G7DF  | ? | Unid | HF Man Pack S2 8-PSK                 | RF73MF | NZART | ZL1GWE |
| 3587   |     | 2012 | 07 | 01 | <0533> | 0533      | G7DF  | ? | Unid | HF Man Pack S1                       | RF73MF | NZART | ZL1GWE |
| 3593   |     | 2012 | 07 | 08 | <0307> | 0307      | G7DF  | ? | Unid | HF Man pack S1                       | RF73MF | NZART | ZL1GWE |
| 3594   |     | 2012 | 07 | 08 | <0317> | 0317      | G7DF  | ? | Unid | HF Man Pack S1                       | RF73MF | NZART | ZL1GWE |
|        |     |      |    |    |        |           |       |   |      | Japanese Music with no callsign      |        |       |        |
| 3602   | 3   | 2012 | 07 | 31 |        | 01:50     | J3E   |   |      |                                      |        | JARL  |        |
| 3602   |     | 2012 | 07 | 01 | <0335> | 0335      | G7DF  | ? | Unid | HF Man Pack S2                       | RF73MF | NZART | ZL1GWE |
| 3604   |     | 2012 | 07 | 08 | <0307> | 0307      | G7DF  | ? | Unid | HF Man Pack S1                       | RF73MF | NZART | ZL1GWE |
| 3612   |     | 2012 | 07 | 19 | <2014> | 2014      | G7DF  | ? | Unid | HF Man Pack S4 8-PSK                 | RF73MF | NZART | ZL1GWE |
| 3617   |     | 2012 | 07 | 08 | <0334> | 0334      | G7DF  | ? | Unid | HF Man Pack S2                       | RF73MF | NZART | ZL1GWE |
| 3618   |     | 2012 | 07 | 08 | <0312> | 0312      | G7DF  | ? | Unid | HF Man Pack S1                       | RF73MF | NZART | ZL1GWE |
| 3618   |     | 2012 | 07 | 08 | <0321> | 0321      | G7DF  | ? | Unid | HF Man Pack S2                       | RF73MF | NZART | ZL1GWE |
| 3623.0 | 3   | 2012 | 7  | 2  | 1940   |           | J1C   |   |      | DAILY                                | QG52xi | WIA   | VK4TJ  |
| 3623.5 |     | 2012 | 07 | 07 | <1930> | 1930      | F1B   | ? | JMH  | Weather Fax JMH                      | RF73MF | NZART | ZL1GWE |
| 3626   |     | 2012 | 07 | 20 | <2000> | 2000      | G7DF  | ? | Unid | HF Man Pack S2 8-PSK                 | RF73MF | NZART | ZL1GWE |
| 3648   |     | 2012 | 07 | 17 | <0644> | 0644      | G7DF  | ? | Unid | HF Man Pack S2                       | RF73MF | NZART | ZL1GWE |
| 3649   |     | 2012 | 07 | 22 | <0550> | 0550      | G7DF  | ? | Unid | HF Man Pack S1 8-PSK                 | RF73MF | NZART | ZL1GWE |
| 3650   |     | 2012 | 07 | 08 | <0316> | 0316      | G7DF  | ? | Unid | HF Man Pack S1                       | RF73MF | NZART | ZL1GWE |
| 3650   |     | 2012 | 07 | 17 | <0631> | 0631      | G7DF  | ? | Unid | HF Man Pack S2                       | RF73MF | NZART | ZL1GWE |
| 3655   |     | 2012 | 07 | 17 | <0657> | 0657      | G7DF  | ? | Unid | HF Man Pack S3                       | RF73MF | NZART | ZL1GWE |
| 3657   |     | 2012 | 07 | 17 | <0617> | 0617      | G7DF  | ? | Unid | HF Man Pack S2                       | RF73MF | NZART | ZL1GWE |
| 3667   |     | 2012 | 07 | 22 | <0030> | 0030      | G7DF  | ? | Unid | HF Man Pack S1                       | RF73MF | NZART | ZL1GWE |
| 3668   |     | 2012 | 07 | 01 | <0517> | 0517      | G7DF  | ? | Unid | HF Man Pack S1                       | RF73MF | NZART | ZL1GWE |
| 3677   |     | 2012 | 07 | 01 | <0537> | 0537      | G7DF  | ? | Unid | HF Man Pack S2 8-PSK                 | RF73MF | NZART | ZL1GWE |
| 3692   |     | 2012 | 07 | 22 | <0056> | 0056      | G7DF  | ? | Unid | HF Man Pack S2 8-PSK                 | RF73MF | NZART | ZL1GWE |
| 3697   |     | 2012 | 07 | 22 | <0546> | 0546      | G7DF  | ? | Unid | HF Man Pack S3 8-PSK                 | RF73MF | NZART | ZL1GWE |
| 3698   |     | 2012 | 07 | 08 | <0320> | 0320      | G7DF  | ? | Unid | HF Man Pack S1                       | RF73MF | NZART | ZL1GWE |
| 3699   |     | 2012 | 07 | 01 | <0539> | 0539      | G7DF  | ? | Unid | HF Man Pack S1 8-PSK                 | RF73MF | NZART | ZL1GWE |
|        |     |      |    |    |        |           |       |   |      | random number u5 6au u3t55d 5667n57  |        |       |        |
| 3705   | 0.5 | 2012 | 07 | 01 |        | 21:25     | A1A   |   |      |                                      |        | JARL  |        |
| 3705   |     | 2012 | 07 | 01 | <0536> | 0536      | G7DF  | ? | Unid | HF Man Pack                          | RF73MF | NZART | ZL1GWE |
| 3706   |     | 2012 | 07 | 17 | <0641> | 0641      | G7DF  | ? | Unid | HF Man Pack 8-PSK S4                 | RF73MF | NZART | ZL1GWE |
| 3714   |     | 2012 | 07 | 01 | <0614> | 0614>     | G7DF  | ? | Unid | HF Man Pack S2 8-PSK                 | RF73MF | NZART | ZL1GWE |
| 3718   |     | 2012 | 07 | 01 | <0513> | 0513      | G7DF  | ? | Unid | HF Man Pack S2                       | RF73MF | NZART | ZL1GWE |
| 3719   |     | 2012 | 07 | 20 | <2004> | 2000      | G7DF  | ? | Unid | HF Man Pack S3 8-PSK                 | RF73MF | NZART | ZL1GWE |
| 3721   |     | 2012 | 07 | 01 | <0337> | 0337      | G7DF  | ? | Unid | HF Man Pack S2                       | RF73MF | NZART | ZL1GWE |
| 3725   |     | 2012 | 07 | 01 | <0539> | 0539      | G7DF  | ? | Unid | HF Man Pack S2 8-PSK                 | RF73MF | NZART | ZL1GWE |
| 3730   |     | 2012 | 07 | 08 | <0332> | 0332      | G7DF  | ? | Unid | HF Man Pack S2                       | RF73MF | NZART | ZL1GWE |
| 3738   |     | 2012 | 07 | 20 | <2000> | 2000      | G7DF  | ? | Unid | HF Man Pack S3                       | RF73MF | NZART | ZL1GWE |
| 3744   |     | 2012 | 07 | 08 | <0331> | 0331      | G7DF  | ? | Unid | HF Man Pack S1                       | RF73MF | NZART | ZL1GWE |

|      |     |      |    |    |        |       |      |        |                               |        |       |        |
|------|-----|------|----|----|--------|-------|------|--------|-------------------------------|--------|-------|--------|
| 3749 |     | 2012 | 07 | 19 | <2011> | 2011  | G7DF | ? Unid | HF Man Pack S4 8-PSK          | RF73MF | NZART | ZL1GWE |
| 3753 |     | 2012 | 07 | 01 | <0545> | 0545  | G7DF | ? Unid | HF Man Pack S3 8-PSK          | RF73MF | NZART | ZL1GWE |
| 3772 |     | 2012 | 07 | 08 | <0327> | 0327  | G7DF | ? Unid | HF Man Pack S2                | RF73MF | NZART | ZL1GWE |
| 3776 |     | 2012 | 07 | 20 | <0750> | 0750  | G7DF | ? Unid | HF Man Pack S1 8-PSK          | RF73MF | NZART | ZL1GWE |
| 3780 |     | 2012 | 07 | 01 | <0521> | 0521  | G7DF | ? Unid | HF Man Pack S3                | RF73MF | NZART | ZL1GWE |
| 3786 |     | 2012 | 07 | 19 | <0125> | 0125  | G7DF | ? Unid | HF Man Pack S3 8-PSK          | RF73MF | NZART | ZL1GWE |
| 3788 |     | 2012 | 07 | 17 | <0644> | 0644  | G7DF | ? Unid | HF Man Pack S3 8-PSK          | RF73MF | NZART | ZL1GWE |
| 3788 |     | 2012 | 07 | 19 | <1921> | 1921  | G7DF | ? Unid | HF Man Pack S4 8-PSK          | RF73MF | NZART | ZL1GWE |
| 3788 |     | 2012 | 07 | 08 | <0341> | 0341  | G7DF | ? Unid | HF Man Pack S1                | RF73MF | NZART | ZL1GWE |
| 3789 |     | 2012 | 07 | 08 | <0314> | 0314  | G7DF | ? Unid | HF Man Pack S1                | RF73MF | NZART | ZL1GWE |
| 3794 |     | 2012 | 07 | 19 | <2013> | 2013  | G7DF | ? Unid | HF Man Pack S4 8-PSK          | RF73MF | NZART | ZL1GWE |
|      |     |      |    |    |        |       |      |        | h2fl h2fl h2fl de drvz drvz v |        |       |        |
| 3797 | 0.5 | 2012 | 07 | 01 |        | 21:37 | A1A  |        |                               |        | JARL  |        |
|      |     |      |    |    |        |       |      |        | h2fl h2fl h2fl de drvz drvz v |        |       |        |
| 3798 | 0.5 | 2012 | 07 | 09 |        | 22:53 | A1A  |        |                               |        | JARL  |        |
|      |     |      |    |    |        |       |      |        | h2fl h2fl h2fl de drvz drvz v |        |       |        |
| 3798 | 0.5 | 2012 | 07 | 12 |        | 20:07 | A1A  |        |                               |        | JARL  |        |
|      |     |      |    |    |        |       |      |        | h2fl h2fl h2fl de drvz drvz v |        |       |        |
| 3798 | 0.5 | 2012 | 07 | 12 |        | 20:07 | A1A  |        |                               |        | JARL  |        |
|      |     |      |    |    |        |       |      |        | h2fl h2fl h2fl de drvz drvz v |        |       |        |
| 3798 | 0.5 | 2012 | 07 | 14 |        | 22:59 | A1A  |        |                               |        | JARL  |        |
|      |     |      |    |    |        |       |      |        | h2fl h2fl h2fl de drvz drvz v |        |       |        |
| 3798 | 0.5 | 2012 | 07 | 18 |        | 23:43 | A1A  |        |                               |        | JARL  |        |
|      |     |      |    |    |        |       |      |        | h2fl h2fl h2fl de drvz drvz v |        |       |        |
| 3798 | 0.5 | 2012 | 07 | 21 |        | 22:52 | A1A  |        |                               |        | JARL  |        |
|      |     |      |    |    |        |       |      |        | h2fl h2fl h2fl de drvz drvz v |        |       |        |
| 3798 | 0.5 | 2012 | 07 | 24 |        | 20:17 | A1A  |        |                               |        | JARL  |        |
|      |     |      |    |    |        |       |      |        | h2fl h2fl h2fl de drvz drvz v |        |       |        |
| 3798 | 0.5 | 2012 | 07 | 25 |        | 22:08 | A1A  |        |                               |        | JARL  |        |
|      |     |      |    |    |        |       |      |        | h2fl h2fl h2fl de drvz drvz v |        |       |        |
| 3798 | 0.5 | 2012 | 07 | 31 |        | 01:56 | A1A  |        |                               |        | JARL  |        |
| 3798 |     | 2012 | 07 | 17 | <0642> | 0642  | G7DF | ? Unid | HF Man Pack S3 8-PSK          | RF73MF | NZART | ZL1GWE |
|      |     |      |    |    |        |       |      |        | HF Man Pack S3                |        |       |        |
| 3802 |     | 2012 | 07 | 01 | <0533> | 0533  | G7DF | ? Unid | HF Man Pack S3                | RF73MF | NZART | ZL1GWE |
| 3817 |     | 2012 | 07 | 08 | <0340> | 0340  | G7DF | ? Unid | HF Man Pack S1                | RF73MF | NZART | ZL1GWE |
| 3822 |     | 2012 | 07 | 01 | <0531> | 0531  | G7DF | ? Unid | HF Man Pack S2                | RF73MF | NZART | ZL1GWE |
| 3826 |     | 2012 | 07 | 17 | <0502> | 0502  | G7DF | ? Unid | HF Man Pack S3                | RF73MF | NZART | ZL1GWE |
| 3830 |     | 2012 | 07 | 08 | <0326> | 0326  | G7DF | ? Unid | HF Man Pack S2                | RF73MF | NZART | ZL1GWE |
| 3848 |     | 2012 | 07 | 08 | <0328> | 0328  | G7DF | ? Unid | HF Man Pack S2                | RF73MF | NZART | ZL1GWE |
| 3849 |     | 2012 | 07 | 01 | <0527> | 0527  | G7DF | ? Unid | HF Man Pack S3                | RF73MF | NZART | ZL1GWE |
| 3850 |     | 2012 | 07 | 19 | <1922> | 1922  | G7DF | ? Unid | HF Man Pack S4 8-PSK          | RF73MF | NZART | ZL1GWE |
| 3857 |     | 2012 | 07 | 17 | <0654> | 0654  | G7DF | ? Unid | RF Man Pack S3                | RF73MF | NZART | ZL1GWE |
| 3860 |     | 2012 | 07 | 19 | <2015> | 2015  | G7DF | ? Unid | HF Man Pack S4 8-PSK          | RF73MF | NZART | ZL1GWE |
| 3868 |     | 2012 | 07 | 01 | <0517> | 0517  | G7DF | ? Unid | HF Man Pack S3                | RF73MF | NZART | ZL1GWE |
| 3874 |     | 2012 | 07 | 17 | <0648> | 0648  | G7DF | ? Unid | HF Man Pack S3                | RF73MF | NZART | ZL1GWE |

|        |      |      |    |    |        |      |       |     |     |      |                                         |        |       |        |
|--------|------|------|----|----|--------|------|-------|-----|-----|------|-----------------------------------------|--------|-------|--------|
| 3877   |      | 2012 | 07 | 17 | <0610> | 0610 | G7DF  |     | ?   | Unid | HF Man Pack S2                          | RF73MF | NZART | ZL1GWE |
| 3878   |      | 2012 | 07 | 01 | <0607> | 0607 | G7DF  |     | ?   | Unid | HF Man Pack S3 8-PSK                    | RF73MF | NZART | ZL1GWE |
| 3880   |      | 2012 | 07 | 01 | <0513> | 0513 | G7DF  |     | ?   | Unid | HF Man Pack S2                          | RF73MF | NZART | ZL1GWE |
| 3880   |      | 2012 | 07 | 01 | <0522> | 0522 | G7DF  |     | ?   | Unid | HF Man Pack S3                          | RF73MF | NZART | ZL1GWE |
| 3884   |      | 2012 | 07 | 01 | <0534> | 0534 | G7DF  |     | ?   | Unid | HF Man Pack S3                          | RF73MF | NZART | ZL1GWE |
| 3892   |      | 2012 | 07 | 22 | <0552> | 0552 | G7DF  |     | ?   | Unid | HF Man Pack S2 8-PSK                    | RF73MF | NZART | ZL1GWE |
| 3893   |      | 2012 | 07 | 19 | <1924> | 1924 | G7DF  |     | ?   | Unid | HF Man Pack S4 8-PSK                    | RF73MF | NZART | ZL1GWE |
| 3895   |      | 2012 | 07 | 17 | <0628> | 0628 | G7DF  |     | ?   | Unid | HF Man Pack 6-PSK S4                    | RF73MF | NZART | ZL1GWE |
| 3898   |      | 2012 | 07 | 17 | <0626> | 0625 | G7DF  |     | ?   | Unid | HF Man Pack S2                          | RF73MF | NZART | ZL1GWE |
| 3899   |      | 2012 | 07 | 17 | <0655> | 0655 | G7DF  |     | ?   | Unid | HF Man Pack S3                          | RF73MF | NZART | ZL1GWE |
| 6990.0 | 50   | 2012 | 7  | 2  | 0950   |      | P0N   |     |     |      | DAILY, OTHR, SPILLS INTO AMATEUR BAND   |        |       |        |
| 7000.0 | 3    | 2012 | 7  | 1  | 0915   |      | J3E/U |     | INS |      | DAILY, VILLAGE RADIO                    | QG52xi | WIA   | VK4TJ  |
|        |      |      |    |    |        |      |       |     |     |      | Out of band OTHR spreading to 7010      | QG52xi | WIA   | VK4TJ  |
| 7000   | +100 | 2012 | 07 | 01 | <1900> | 1900 | P0N   |     | ?   | Unid |                                         | RF72LQ | NZART | ZL1BAD |
|        |      |      |    |    |        |      |       |     |     |      | Out of band OTHR spreading to 7010      |        |       |        |
| 7000   |      | 2012 | 07 | 02 | <2030> | 2030 | P0N   |     | ?   | Unid |                                         | RF72LQ | NZART | ZL1BAD |
|        |      |      |    |    |        |      |       |     |     |      | Out of band OTHR spreading to 7010      |        |       |        |
| 7000   |      | 2012 | 07 | 07 | <1830> | 1830 | P0N   |     | ?   | Unid |                                         | RF72LQ | NZART | ZL1BAD |
|        |      |      |    |    |        |      |       |     |     |      | Out of band OTHR spreading to 7010      |        |       |        |
| 7000   |      | 2012 | 07 | 08 | <0955> | 0955 | P0N   |     | ?   | Unid |                                         | RF72LQ | NZART | ZL1BAD |
|        |      |      |    |    |        |      |       |     |     |      | Out of band OTHR spreading to 7010      |        |       |        |
| 7000   |      | 2012 | 07 | 12 | <1925> | 1925 | P0N   |     | ?   | Unid |                                         | RF72LQ | NZART | ZL1BAD |
|        |      |      |    |    |        |      |       |     |     |      | Out of band OTHR spreading to 7010      |        |       |        |
| 7000   |      | 2012 | 07 | 15 | <1950> | 1950 | P0N   |     | ?   | Unid |                                         | RF72LQ | NZART | ZL1BAD |
|        |      |      |    |    |        |      |       |     |     |      | Out of band OTHR spreading to 7010      |        |       |        |
| 7000   |      | 2012 | 07 | 21 | <1945> | 1945 | P0N   |     | ?   | Unid |                                         | RF72LQ | NZART | ZL1BAD |
|        |      |      |    |    |        |      |       |     |     |      | Non-amateurs - when OTHR is not present |        |       |        |
| 7000   |      | 2012 | 07 | DY | <1815> | 1815 | J3E/U |     | ?   | Unid |                                         | RF72LQ | NZART | ZL1BAD |
|        |      |      |    |    |        |      |       |     |     |      | Non-amateurs - when OTHR is not present |        |       |        |
| 7000   |      | 2012 | 07 | 26 | <0800> | 0800 | J3E/U |     | ?   | Unid |                                         | RF72LQ | NZART | ZL1BAD |
| 7001   |      | 2012 | 07 | 18 | <1026> | 1926 | P0N   |     | ?   | Unid | OTHR 41 PPS S5                          | RF73MF | NZART | ZL1GWE |
| 7005.0 | 3    | 2012 | 7  | 29 | 2005   |      | J3E/U |     |     |      | ASIAN MUSIC                             | QG52xi | WIA   | VK4TJ  |
| 7005.0 | 3    | 2012 | 7  | 9  | 0925   |      | J3E/L |     | INS |      | DAILY, VILLAGE RADIO                    | QG52xi | WIA   | VK4TJ  |
| 7005.0 | 3    | 2012 | 7  | 1  | 0915   |      | J3E/U |     | INS |      | DAILY, VILLAGE RADIO                    | QG52xi | WIA   | VK4TJ  |
| 7008   |      | 2012 | 07 | 21 | <0300> | 0300 | F1B   | 250 | RUS | Unid | Russian 3 shift keyboard                | RF72LQ | NZART | ZL1BAD |
| 7010.0 | 5    | 2012 | 7  | 12 | 2000   |      | G7D   |     |     |      | 12 SUBCARRIERS ON 200 HZ CENTRES        |        |       |        |
|        |      |      |    |    |        |      |       |     | RUS |      |                                         | QG52xi | WIA   | VK4TJ  |
| 7010.0 | 3    | 2012 | 7  | 1  | 0915   |      | J3E/L |     | INS |      | DAILY, VILLAGE RADIO                    | QG52xi | WIA   | VK4TJ  |
| 7010.0 | 3    | 2012 | 7  | 2  | 0950   |      | J3E/U |     | INS |      | DAILY, VILLAGE RADIO                    | QG52xi | WIA   | VK4TJ  |
| 7010   | 3.3  | 2012 | 07 | 12 | <1920> | 1920 | M7B   |     | ?   | Unid | Multi-chnl                              | RF72LQ | NZART | ZL1BAD |
| 7014   |      | 2012 | 07 | 16 | <0625> | 0625 | G7DF  |     | ?   | Unid | HF Man Pack S1                          | RF73MF | NZART | ZL1GWE |
| 7015.0 | 3    | 2012 | 7  | 23 | 1010   |      | J3E/L |     | INS |      | DAILY, VILLAGE RADIO                    | QG52xi | WIA   | VK4TJ  |
| 7015.0 | 3    | 2012 | 7  | 3  | 0945   |      | J3E/U |     | INS |      | DAILY, VILLAGE RADIO                    | QG52xi | WIA   | VK4TJ  |

|        |     |      |    |    |                 |               |       |     |      |      |                                                                                    |        |       |        |
|--------|-----|------|----|----|-----------------|---------------|-------|-----|------|------|------------------------------------------------------------------------------------|--------|-------|--------|
|        |     |      |    |    |                 |               |       |     |      |      | CODAR 3.5 PPS Continuous                                                           |        |       |        |
| 7015   | 30  | 2012 | 07 | 20 | <1930>          | 1930          | VXX   |     | ?    | Unid |                                                                                    | RF72LQ | NZART | ZL1BAD |
| 7020.0 | 3   | 2012 | 7  | 23 | 1005            |               | J3E/U |     | INS  |      | DAILY, VILLAGE RADIO                                                               | QG52xi | WIA   | VK4TJ  |
| 7020.0 | 3   | 2012 | 7  | 1  | 0915            |               | J3E/L |     | INS  |      | DAILY, VILLAGE RADIO                                                               | QG52xi | WIA   | VK4TJ  |
| 7021   |     | 2012 | 07 | 30 | <1801>          | 1801          | G7DF  |     | ?    | Unid | HF Man Pack 8-PSK S1                                                               | RF73MF | NZART | ZL1GWE |
|        |     |      |    |    |                 |               |       |     |      |      | 7006KHz ~ 7040KHz wide pulse mode<br>P0N OTHR ?                                    |        |       |        |
| 7023   | 34  | 2012 | 07 | 06 | 1806            |               | P0N   | non | non  | non  |                                                                                    | PM97   | JARL  | non    |
|        |     |      |    |    |                 |               |       |     |      |      | 7006KHz ~ 7040KHz wide pulse mode<br>P0N OTHR ?                                    |        |       |        |
| 7023   | 34  | 2012 | 07 | 15 | 1910            |               | P0N   | non | non  | non  |                                                                                    | PM97   | JARL  | non    |
|        |     |      |    |    |                 |               |       |     |      |      | 7006KHz ~ 7040KHz wide pulse mode<br>P0N OTHR ?                                    |        |       |        |
| 7023   | 34  | 2012 | 07 | 26 | 1714            |               | P0N   | non | non  | non  |                                                                                    | PM97   | JARL  | non    |
|        |     |      |    |    |                 |               |       |     |      |      | 7006KHz ~ 7040KHz wide pulse mode<br>P0N OTHR ?                                    |        |       |        |
| 7023   | 34  | 2012 | 07 | 28 | 1820            |               | P0N   | non | non  | non  |                                                                                    | PM97   | JARL  | non    |
| 7025.0 | 3   | 2012 | 7  | 2  | 0950            |               | J3E/U |     | INS  |      | DAILY, VILLAGE RADIO                                                               | QG52xi | WIA   | VK4TJ  |
|        |     |      |    |    |                 |               |       |     |      |      | CODAR 3.5 PPS Continuous                                                           |        |       |        |
| 7025   | 30  | 2012 | 07 | 15 | <1950>          | 1950          | VXX   |     | ?    | Unid |                                                                                    | RF72LQ | NZART | ZL1BAD |
| 7026   |     | 2012 | 07 | 18 | <0646>          | 0646          | G7DF  |     | ?    | Unid | HF Man Pack S1 8-PSK<br>train of " V " (with no callsign)                          | RF73MF | NZART | ZL1GWE |
| 7027   | 0.5 | 2012 | 07 | 30 |                 | 05:46         | A1A   |     |      |      |                                                                                    |        | JARL  |        |
| 7027   |     | 2012 | 07 | 20 | <1949>          | 1949          | A1A   |     | V    | Unid | CW Beacon V S2                                                                     | RF73MF | NZART | ZL1GWE |
| 7027.5 |     | 2012 | 7  | 9  | 2015            |               | A1A   |     |      | V    | BEACON<br>SENDING MANY Vs AND Xs—(NO<br>SPECIFIC ORDER)-EVEN MIXED<br>COMBINATIONS | QG52xi | WIA   | VK4TJ  |
| 7027.5 |     | 2012 | 07 | 14 | <2125-<br>2135> |               | A1A   |     | UNID | UNID |                                                                                    | MK82   | ARSI  |        |
| 7028   |     | 2012 | 07 | 19 | <1958>          | 1958          | A1A   |     | V    | Unid | CW Beacon V S2                                                                     | RF73MF | NZART | ZL1GWE |
| 7030.0 | 3   | 2012 | 7  | 31 | 1020            |               | J3E/L |     | INS  |      | DAILY, VILLAGE RADIO                                                               | QG52xi | WIA   | VK4TJ  |
| 7030.0 | 3   | 2012 | 7  | 3  | 0840            |               | J3E/U |     | INS  |      | DAILY, VILLAGE RADIO                                                               | QG52xi | WIA   | VK4TJ  |
|        |     |      |    |    |                 |               | F7B   |     |      |      | now on air                                                                         |        |       |        |
| 7034   | 4   | 2012 | 07 | 20 | 1514            |               | ?     | non | non  | non  |                                                                                    | PM97   | JARL  | non    |
|        |     |      |    |    |                 |               | F7B   |     |      |      | now on air                                                                         |        |       |        |
| 7034   | 4   | 2012 | 07 | 20 | 1614            |               | ?     | non | non  | non  |                                                                                    | PM97   | JARL  | non    |
| 7035.0 | 3   | 2012 | 7  | 14 | 0745            |               | J3E/U |     |      |      | VILLAGE RADIO - NEW FREQ                                                           |        |       |        |
|        |     |      |    |    |                 |               |       |     | INS  |      |                                                                                    | QG52xi | WIA   | VK4TJ  |
| 7035   |     | 2012 | 07 | 14 | <0150>          | 0150-<br>0230 | F1B   | 250 | ?    | Unid | Idling RTTY                                                                        | RF72LQ | NZART | ZL1BAD |
| 7036   | 3   | 2012 | 07 | 01 | 1608            |               | F1B   | non | non  | non  | now on air                                                                         | PM97   | JARL  | non    |
| 7036   | 3   | 2012 | 07 | 04 | 1810            |               | F1B   | non | non  | non  | now on air                                                                         | PM97   | JARL  | non    |
| 7036   | 3   | 2012 | 07 | 08 | 1812            |               | F1B   | non | non  | non  | IDL only                                                                           | PM97   | JARL  | non    |
| 7036   | 3   | 2012 | 07 | 12 | 1658            |               | F1B   | non | non  | non  | now on air                                                                         | PM97   | JARL  | non    |
| 7036   | 3   | 2012 | 07 | 17 | 1658            |               | F1B   | non | non  | non  | now on air                                                                         | PM97   | JARL  | non    |



|        |     |      |    |    |        |      |     |    |     |     |               |                            |        |       |             |
|--------|-----|------|----|----|--------|------|-----|----|-----|-----|---------------|----------------------------|--------|-------|-------------|
| 7036   |     | 2012 | 07 | 30 | <1810> | 1810 | F1B | 50 | 245 | ?   | Unid          | RTTY S9 Idling Non Amateur | RF73MF | NZART | ZL1GWE      |
| 7039.0 |     | 2012 | 7  | 25 | 2000   |      | A1A |    |     |     |               | DAILY, HARBOUR BEACON      |        |       |             |
|        |     |      |    |    |        |      |     |    |     | RU  | S             | Beacon                     | QG52xi | WIA   | VK4TJ       |
| 7039   | 0.5 | 2012 | 07 | 01 | 1220   | H24  | A1A |    | 15  | RUS | M--<br>signal | Beacon                     | PM97   | JARL  | Magadan     |
| 7039   | 0.5 | 2012 | 07 | 01 | 1604   |      | A1A |    | 15  | RUS | M--<br>signal | Beacon                     | PM97   | JARL  | Magadan     |
| 7039   | 0.5 | 2012 | 07 | 01 | 1710   |      | A1A |    | 15  | RUS | M--<br>signal | Beacon                     | PM97   | JARL  | Magadan     |
| 7039   | 0.5 | 2012 | 07 | 01 | 1720   |      | A1A |    | 321 | RUS | F--<br>signal | Beacon                     | PM97   | JARL  | Vladivostok |
| 7039   | 0.5 | 2012 | 07 | 01 | 1810   |      | A1A |    | 15  | RUS | M--<br>signal | Beacon                     | PM97   | JARL  | Magadan     |
| 7039   | 0.5 | 2012 | 07 | 02 | 1220   |      | A1A |    | 15  | RUS | M--<br>signal | Beacon                     | PM97   | JARL  | Magadan     |
| 7039   | 0.5 | 2012 | 07 | 02 | 1604   |      | A1A |    | 15  | RUS | M--<br>signal | Beacon                     | PM97   | JARL  | Magadan     |
| 7039   | 0.5 | 2012 | 07 | 02 | 1714   |      | A1A |    | 15  | RUS | M--<br>signal | Beacon                     | PM97   | JARL  | Magadan     |
| 7039   | 0.5 | 2012 | 07 | 02 | 1818   |      | A1A |    | 15  | RUS | M--<br>signal | Beacon                     | PM97   | JARL  | Magadan     |
| 7039   | 0.5 | 2012 | 07 | 03 | 1220   |      | A1A |    | 15  | RUS | M--<br>signal | Beacon                     | PM97   | JARL  | Magadan     |
| 7039   | 0.5 | 2012 | 07 | 03 | 1604   |      | A1A |    | 15  | RUS | M--<br>signal | Beacon                     | PM97   | JARL  | Magadan     |
| 7039   | 0.5 | 2012 | 07 | 03 | 1710   |      | A1A |    | 15  | RUS | M--<br>signal | Beacon                     | PM97   | JARL  | Magadan     |
| 7039   | 0.5 | 2012 | 07 | 03 | 1820   |      | A1A |    | 15  | RUS | M--<br>signal | Beacon                     | PM97   | JARL  | Magadan     |
| 7039   | 0.5 | 2012 | 07 | 04 | 1220   |      | A1A |    | 15  | RUS | M--<br>signal | Beacon                     | PM97   | JARL  | Magadan     |
| 7039   | 0.5 | 2012 | 07 | 04 | 1604   |      | A1A |    | 15  | RUS | M--<br>signal | Beacon                     | PM97   | JARL  | Magadan     |
| 7039   | 0.5 | 2012 | 07 | 04 | 1704   |      | A1A |    | 15  | RUS | M--<br>signal | Beacon                     | PM97   | JARL  | Magadan     |
| 7039   | 0.5 | 2012 | 07 | 04 | 1712   |      | A1A |    | 15  | RUS | M--<br>signal | Beacon                     | PM97   | JARL  | Magadan     |
| 7039   | 0.5 | 2012 | 07 | 04 | 1802   |      | A1A |    | 321 | RUS | F--<br>signal | Beacon                     | PM97   | JARL  | Vladivostok |
| 7039   | 0.5 | 2012 | 07 | 04 | 2208   |      | A3E |    | non | CHN | non           | Chinese Talk and Music     | PM97   | JARL  | non         |
| 7039   | 0.5 | 2012 | 07 | 05 | 1230   |      | A1A |    | 15  | RUS | M--<br>signal | Beacon                     | PM97   | JARL  | Magadan     |
| 7039   | 0.5 | 2012 | 07 | 05 | 1234   |      | A1A |    | 321 | RUS | F--<br>signal | Beacon                     | PM97   | JARL  | Vladivostok |

|      |     |      |    |    |      |     |     |     |     |               |        |  |      |      |             |
|------|-----|------|----|----|------|-----|-----|-----|-----|---------------|--------|--|------|------|-------------|
| 7039 | 0.5 | 2012 | 07 | 05 | 1612 | H24 | A1A | 15  | RUS | M--<br>signal | Beacon |  | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 05 | 1818 |     | A1A | 15  | RUS | M--<br>signal | Beacon |  | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 05 | 1822 |     | A1A | 321 | RUS | F--<br>signal | Beacon |  | PM97 | JARL | Vladivostok |
| 7039 | 0.5 | 2012 | 07 | 06 | 1210 |     | A1A | 15  | RUS | M--<br>signal | Beacon |  | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 06 | 1214 |     | A1A | 321 | RUS | F--<br>signal | Beacon |  | PM97 | JARL | Vladivostok |
| 7039 | 0.5 | 2012 | 07 | 06 | 1606 |     | A1A | 15  | RUS | M--<br>signal | Beacon |  | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 06 | 1704 |     | A1A | 15  | RUS | M--<br>signal | Beacon |  | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 06 | 1802 |     | A1A | 15  | RUS | M--<br>signal | Beacon |  | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 06 | 1816 |     | A1A | 321 | RUS | F--<br>signal | Beacon |  | PM97 | JARL | Vladivostok |
| 7039 | 0.5 | 2012 | 07 | 07 | 1230 |     | A1A | 15  | RUS | M--<br>signal | Beacon |  | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 07 | 1610 |     | A1A | 15  | RUS | M--<br>signal | Beacon |  | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 07 | 1710 |     | A1A | 15  | RUS | M--<br>signal | Beacon |  | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 07 | 1820 |     | A1A | 15  | RUS | M--<br>signal | Beacon |  | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 07 | 1824 |     | A1A | 321 | RUS | F--<br>signal | Beacon |  | PM97 | JARL | Vladivostok |
| 7039 | 0.5 | 2012 | 07 | 08 | 1410 |     | A1A | 15  | RUS | M--<br>signal | Beacon |  | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 08 | 1414 |     | A1A | 321 | RUS | F--<br>signal | Beacon |  | PM97 | JARL | Vladivostok |
| 7039 | 0.5 | 2012 | 07 | 08 | 1604 |     | A1A | 15  | RUS | M--<br>signal | Beacon |  | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 08 | 1606 |     | A1A | 321 | RUS | F--<br>signal | Beacon |  | PM97 | JARL | Vladivostok |
| 7039 | 0.5 | 2012 | 07 | 08 | 1704 |     | A1A | 15  | RUS | M--<br>signal | Beacon |  | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 08 | 1706 |     | A1A | 321 | RUS | F--<br>signal | Beacon |  | PM97 | JARL | Vladivostok |
| 7039 | 0.5 | 2012 | 07 | 08 | 1804 |     | A1A | 15  | RUS | M--<br>signal | Beacon |  | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 08 | 1806 |     | A1A | 321 | RUS | F--<br>signal | Beacon |  | PM97 | JARL | Vladivostok |

|      |     |      |    |    |      |     |     |     |               |        |      |      |             |
|------|-----|------|----|----|------|-----|-----|-----|---------------|--------|------|------|-------------|
| 7039 | 0.5 | 2012 | 07 | 09 | 1230 | A1A | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 09 | 1234 | A1A | 321 | RUS | F--<br>signal | Beacon | PM97 | JARL | Vladivostok |
| 7039 | 0.5 | 2012 | 07 | 09 | 1608 | A1A | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 09 | 1810 | A1A | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 09 | 1814 | A1A | 321 | RUS | F--<br>signal | Beacon | PM97 | JARL | Vladivostok |
| 7039 | 0.5 | 2012 | 07 | 10 | 1230 | A1A | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 10 | 1610 | A1A | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 10 | 1614 | A1A | 321 | RUS | F--<br>signal | Beacon | PM97 | JARL | Vladivostok |
| 7039 | 0.5 | 2012 | 07 | 10 | 1704 | A1A | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 10 | 1806 | A1A | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 10 | 1810 | A1A | 321 | RUS | F--<br>signal | Beacon | PM97 | JARL | Vladivostok |
| 7039 | 0.5 | 2012 | 07 | 11 | 1146 | A1A | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 11 | 1202 | A1A | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 11 | 1302 | A1A | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 11 | 1410 | A1A | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 11 | 1420 | A1A | 321 | RUS | F--<br>signal | Beacon | PM97 | JARL | Vladivostok |
| 7039 | 0.5 | 2012 | 07 | 11 | 1508 | A1A | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 11 | 1510 | A1A | 321 | RUS | F--<br>signal | Beacon | PM97 | JARL | Vladivostok |
| 7039 | 0.5 | 2012 | 07 | 11 | 1608 | A1A | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 11 | 1710 | A1A | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 11 | 1810 | A1A | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 11 | 1812 | A1A | 321 | RUS | F--<br>signal | Beacon | PM97 | JARL | Vladivostok |

|      |     |      |    |    |      |     |     |     |               |        |      |      |             |
|------|-----|------|----|----|------|-----|-----|-----|---------------|--------|------|------|-------------|
| 7039 | 0.5 | 2012 | 07 | 12 | 1054 | A1A | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 12 | 1110 | A1A | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 12 | 1208 | A1A | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 12 | 1310 | A1A | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 12 | 1408 | A1A | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 12 | 1510 | A1A | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 12 | 1608 | A1A | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 12 | 1612 | A1A | 321 | RUS | F--<br>signal | Beacon | PM97 | JARL | Vladivostok |
| 7039 | 0.5 | 2012 | 07 | 12 | 1706 | A1A | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 12 | 1710 | A1A | 321 | RUS | F--<br>signal | Beacon | PM97 | JARL | Vladivostok |
| 7039 | 0.5 | 2012 | 07 | 12 | 1806 | A1A | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 12 | 1810 | A1A | 321 | RUS | F--<br>signal | Beacon | PM97 | JARL | Vladivostok |
| 7039 | 0.5 | 2012 | 07 | 13 | 1220 | A1A | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 13 | 1410 | A1A | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 13 | 1604 | A1A | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 13 | 1620 | A1A | 321 | RUS | F--<br>signal | Beacon | PM97 | JARL | Vladivostok |
| 7039 | 0.5 | 2012 | 07 | 13 | 1702 | A1A | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 13 | 1706 | A1A | 321 | RUS | F--<br>signal | Beacon | PM97 | JARL | Vladivostok |
| 7039 | 0.5 | 2012 | 07 | 13 | 1802 | A1A | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 13 | 1810 | A1A | 321 | RUS | F--<br>signal | Beacon | PM97 | JARL | Vladivostok |
| 7039 | 0.5 | 2012 | 07 | 13 | 1920 | A1A | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 14 | 1110 | A1A | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |

|      |     |      |    |    |      |         |     |     |               |        |      |      |             |
|------|-----|------|----|----|------|---------|-----|-----|---------------|--------|------|------|-------------|
| 7039 | 0.5 | 2012 | 07 | 14 | 1210 | A1A     | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 14 | 1310 | A1A     | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 14 | 1410 | A1A     | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 14 | 1510 | A1A     | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 14 | 1610 | A1A     | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 14 | 1612 | A1A     | 321 | RUS | F--<br>signal | Beacon | PM97 | JARL | Vladivostok |
| 7039 | 0.5 | 2012 | 07 | 14 | 1710 | A1A     | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 14 | 1712 | A1A     | 321 | RUS | F--<br>signal | Beacon | PM97 | JARL | Vladivostok |
| 7039 | 0.5 | 2012 | 07 | 14 | 1810 | A1A     | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 14 | 1812 | A1A     | 321 | RUS | F--<br>signal | Beacon | PM97 | JARL | Vladivostok |
| 7039 | 0.5 | 2012 | 07 | 14 | 1910 | A1A     | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 14 | 1912 | A1A     | 321 | RUS | F--<br>signal | Beacon | PM97 | JARL | Vladivostok |
| 7039 | 0.5 | 2012 | 07 | 15 | 1126 | A1A     | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 15 | 1208 | A1A     | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 15 | 1310 | A1A     | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | non         |
| 7039 | 0.5 | 2012 | 07 | 15 | 1408 | H24 A1A | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 15 | 1504 | A1A     | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 15 | 1606 | A1A     | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 15 | 1808 | A1A     | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 15 | 1916 | A1A     | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 16 | 1110 | A1A     | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 16 | 1210 | A1A     | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |

|      |     |      |    |    |      |         |     |     |               |        |      |      |             |
|------|-----|------|----|----|------|---------|-----|-----|---------------|--------|------|------|-------------|
| 7039 | 0.5 | 2012 | 07 | 16 | 1310 | A1A     | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 16 | 1410 | A1A     | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 16 | 1510 | A1A     | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 16 | 1610 | A1A     | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 16 | 1710 | A1A     | 15  | RUS | non           | Beacon | PM97 | JARL | non         |
| 7039 | 0.5 | 2012 | 07 | 16 | 1810 | A1A     | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 17 | 1140 | A1A     | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 17 | 1210 | A1A     | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 17 | 1310 | A1A     | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 17 | 1316 | A1A     | 321 | RUS | F--<br>signal | Beacon | PM97 | JARL | Vladivostok |
| 7039 | 0.5 | 2012 | 07 | 17 | 1410 | A1A     | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 17 | 1510 | A1A     | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 17 | 1514 | A1A     | 321 | RUS | F--<br>signal | Beacon | PM97 | JARL | Vladivostok |
| 7039 | 0.5 | 2012 | 07 | 17 | 1610 | A1A     | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 17 | 1710 | A1A     | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 17 | 1712 | A1A     | 321 | RUS | F--<br>signal | Beacon | PM97 | JARL | Vladivostok |
| 7039 | 0.5 | 2012 | 07 | 17 | 1810 | H24 A1A | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 18 | 1302 | A1A     | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 18 | 1402 | A1A     | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 18 | 1502 | A1A     | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 18 | 1508 | A1A     | 321 | RUS | F--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 18 | 1610 | A1A     | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 18 | 1614 | A1A     | 321 | RUS | F--<br>signal | Beacon | PM97 | JARL | Vladivostok |

|      |     |      |    |    |      |     |     |     |                    |        |  |      |      |             |
|------|-----|------|----|----|------|-----|-----|-----|--------------------|--------|--|------|------|-------------|
| 7039 | 0.5 | 2012 | 07 | 18 | 1710 | A1A | 15  | RUS | M--<br>signal      | Beacon |  | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 18 | 1712 | A1A | 321 | RUS | F--<br>signal      | Beacon |  | PM97 | JARL | Vladivostok |
| 7039 | 0.5 | 2012 | 07 | 18 | 1810 | A1A | 15  | RUS | M--<br>signal      | Beacon |  | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 19 | 1510 | A1A | non | RUS | I--<br>signal<br>? | Beacon |  | PM97 | JARL | non         |
| 7039 | 0.5 | 2012 | 07 | 19 | 1610 | A1A | non | RUS | I--<br>signal<br>? | Beacon |  | PM97 | JARL | non         |
| 7039 | 0.5 | 2012 | 07 | 19 | 1710 | A1A | non | RUS | I--<br>signal<br>? | Beacon |  | PM97 | JARL | non         |
| 7039 | 0.5 | 2012 | 07 | 20 | 1110 | A1A | 15  | RUS | M--<br>signal      | Beacon |  | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 20 | 1210 | A1A | 15  | RUS | M--<br>signal      | Beacon |  | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 20 | 1310 | A1A | 15  | RUS | M--<br>signal      | Beacon |  | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 20 | 1410 | A1A | 15  | RUS | M--<br>signal      | Beacon |  | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 20 | 1510 | A1A | 15  | RUS | M--<br>signal      | Beacon |  | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 20 | 1610 | A1A | 15  | RUS | M--<br>signal      | Beacon |  | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 20 | 1710 | A1A | 15  | RUS | M--<br>signal      | Beacon |  | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 21 | 1110 | A1A | 15  | RUS | M--<br>signal      | Beacon |  | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 21 | 1210 | A1A | 15  | RUS | M--<br>signal      | Beacon |  | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 21 | 1310 | A1A | 15  | RUS | M--<br>signal      | Beacon |  | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 21 | 1410 | A1A | 15  | RUS | M--<br>signal      | Beacon |  | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 21 | 1510 | A1A | 15  | RUS | M--<br>signal      | Beacon |  | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 21 | 1610 | A1A | 15  | RUS | M--<br>signal      | Beacon |  | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 21 | 1710 | A1A | 15  | RUS | M--<br>signal      | Beacon |  | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 22 | 1110 | A1A | 15  | RUS | M--<br>signal      | Beacon |  | PM97 | JARL | Magadan     |

|      |     |      |    |    |      |     |    |     |               |        |      |      |             |
|------|-----|------|----|----|------|-----|----|-----|---------------|--------|------|------|-------------|
| 7039 | 0.5 | 2012 | 07 | 22 | 1210 | A1A | 15 | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 22 | 1310 | A1A | 15 | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 22 | 1410 | A1A | 15 | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 22 | 1510 | A1A | 15 | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 22 | 1610 | A1A | 15 | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 22 | 1940 | A1A | 15 | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 23 | 1110 | A1A | 37 | RUS | K--<br>signal | Beacon | PM97 | JARL | Kamchatskiy |
| 7039 | 0.5 | 2012 | 07 | 23 | 1112 | A1A | 15 | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 23 | 1210 | A1A | 37 | RUS | K--<br>signal | Beacon | PM97 | JARL | Kamchatskiy |
| 7039 | 0.5 | 2012 | 07 | 23 | 1212 | A1A | 15 | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 23 | 1310 | A1A | 37 | RUS | K--<br>signal | Beacon | PM97 | JARL | Kamchatskiy |
| 7039 | 0.5 | 2012 | 07 | 23 | 1312 | A1A | 15 | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 23 | 1410 | A1A | 37 | RUS | K--<br>signal | Beacon | PM97 | JARL | Kamchatskiy |
| 7039 | 0.5 | 2012 | 07 | 23 | 1412 | A1A | 15 | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 23 | 1510 | A1A | 37 | RUS | K--<br>signal | Beacon | PM97 | JARL | Kamchatskiy |
| 7039 | 0.5 | 2012 | 07 | 23 | 1512 | A1A | 15 | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 23 | 1610 | A1A | 37 | RUS | K--<br>signal | Beacon | PM97 | JARL | Kamchatskiy |
| 7039 | 0.5 | 2012 | 07 | 23 | 1612 | A1A | 15 | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 23 | 1710 | A1A | 37 | RUS | K--<br>signal | Beacon | PM97 | JARL | Kamchatskiy |
| 7039 | 0.5 | 2012 | 07 | 23 | 1712 | A1A | 15 | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 24 | 1010 | A1A | 37 | RUS | K--<br>signal | Beacon | PM97 | JARL | Kamchatskiy |
| 7039 | 0.5 | 2012 | 07 | 24 | 1012 | A1A | 15 | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |



|      |     |      |    |    |      |     |     |     |               |        |      |      |             |
|------|-----|------|----|----|------|-----|-----|-----|---------------|--------|------|------|-------------|
| 7039 | 0.5 | 2012 | 07 | 24 | 1110 | A1A | 37  | RUS | K--<br>signal | Beacon | PM97 | JARL | Kamchatskiy |
| 7039 | 0.5 | 2012 | 07 | 24 | 1112 | A1A | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 24 | 1210 | A1A | 37  | RUS | K--<br>signal | Beacon | PM97 | JARL | Kamchatskiy |
| 7039 | 0.5 | 2012 | 07 | 24 | 1212 | A1A | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 24 | 1310 | A1A | 37  | RUS | K--<br>signal | Beacon | PM97 | JARL | Kamchatskiy |
| 7039 | 0.5 | 2012 | 07 | 24 | 1312 | A1A | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 24 | 1410 | A1A | 37  | RUS | K--<br>signal | Beacon | PM97 | JARL | Kamchatskiy |
| 7039 | 0.5 | 2012 | 07 | 24 | 1412 | A1A | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 24 | 1510 | A1A | 37  | RUS | K--<br>signal | Beacon | PM97 | JARL | Kamchatskiy |
| 7039 | 0.5 | 2012 | 07 | 24 | 1512 | A1A | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 24 | 1610 | A1A | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 24 | 1612 | A1A | 321 | RUS | F--<br>signal | Beacon | PM97 | JARL | Vladivostok |
| 7039 | 0.5 | 2012 | 07 | 24 | 1710 | A1A | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 24 | 1712 | A1A | 321 | RUS | F--<br>signal | Beacon | PM97 | JARL | Vladivostok |
| 7039 | 0.5 | 2012 | 07 | 24 | 1810 | A1A | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 24 | 1812 | A1A | 321 | RUS | F--<br>signal | Beacon | PM97 | JARL | Vladivostok |
| 7039 | 0.5 | 2012 | 07 | 25 | 1110 | A1A | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 25 | 1210 | A1A | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 25 | 1310 | A1A | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 25 | 1314 | A1A | 321 | RUS | F--<br>signal | Beacon | PM97 | JARL | Vladivostok |
| 7039 | 0.5 | 2012 | 07 | 25 | 1410 | A1A | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 25 | 1416 | A1A | 321 | RUS | F--<br>signal | Beacon | PM97 | JARL | Vladivostok |

|      |     |      |    |    |      |     |     |     |               |        |  |      |      |             |
|------|-----|------|----|----|------|-----|-----|-----|---------------|--------|--|------|------|-------------|
| 7039 | 0.5 | 2012 | 07 | 25 | 1510 | A1A | 15  | RUS | M--<br>signal | Beacon |  | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 25 | 1610 | A1A | 15  | RUS | M--<br>signal | Beacon |  | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 25 | 1710 | A1A | 15  | RUS | M--<br>signal | Beacon |  | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 25 | 1716 | A1A | 321 | RUS | F--<br>signal | Beacon |  | PM97 | JARL | Vladivostok |
| 7039 | 0.5 | 2012 | 07 | 25 | 1810 | A1A | 15  | RUS | M--<br>signal | Beacon |  | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 26 | 1110 | A1A | 15  | RUS | M--<br>signal | Beacon |  | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 26 | 1114 | A1A | 321 | RUS | F--<br>signal | Beacon |  | PM97 | JARL | Vladivostok |
| 7039 | 0.5 | 2012 | 07 | 26 | 1210 | A1A | 15  | RUS | M--<br>signal | Beacon |  | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 26 | 1214 | A1A | 321 | RUS | F--<br>signal | Beacon |  | PM97 | JARL | Vladivostok |
| 7039 | 0.5 | 2012 | 07 | 26 | 1310 | A1A | 15  | RUS | M--<br>signal | Beacon |  | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 26 | 1314 | A1A | 321 | RUS | F--<br>signal | Beacon |  | PM97 | JARL | Vladivostok |
| 7039 | 0.5 | 2012 | 07 | 26 | 1410 | A1A | 15  | RUS | M--<br>signal | Beacon |  | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 26 | 1510 | A1A | 15  | RUS | M--<br>signal | Beacon |  | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 26 | 1516 | A1A | 321 | RUS | F--<br>signal | Beacon |  | PM97 | JARL | Vladivostok |
| 7039 | 0.5 | 2012 | 07 | 26 | 1610 | A1A | 15  | RUS | M--<br>signal | Beacon |  | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 26 | 1614 | A1A | 321 | RUS | F--<br>signal | Beacon |  | PM97 | JARL | Vladivostok |
| 7039 | 0.5 | 2012 | 07 | 26 | 1710 | A1A | 15  | RUS | M--<br>signal | Beacon |  | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 26 | 1810 | A1A | 15  | RUS | M--<br>signal | Beacon |  | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 26 | 1814 | A1A | 321 | RUS | F--<br>signal | Beacon |  | PM97 | JARL | Vladivostok |
| 7039 | 0.5 | 2012 | 07 | 26 | 2210 | A1A | 15  | RUS | M--<br>signal | Beacon |  | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 27 | 1110 | A1A | 15  | RUS | M--<br>signal | Beacon |  | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 27 | 1114 | A1A | 321 | RUS | F--<br>signal | Beacon |  | PM97 | JARL | Vladivostok |

|      |     |      |    |    |      |         |     |     |               |        |      |      |             |
|------|-----|------|----|----|------|---------|-----|-----|---------------|--------|------|------|-------------|
| 7039 | 0.5 | 2012 | 07 | 27 | 1210 | A1A     | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 27 | 1214 | A1A     | 321 | RUS | F--<br>signal | Beacon | PM97 | JARL | Vladivostok |
| 7039 | 0.5 | 2012 | 07 | 27 | 1310 | A1A     | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 27 | 1314 | A1A     | 321 | RUS | F--<br>signal | Beacon | PM97 | JARL | Vladivostok |
| 7039 | 0.5 | 2012 | 07 | 27 | 1412 | A1A     | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 27 | 1416 | A1A     | 321 | RUS | F--<br>signal | Beacon | PM97 | JARL | Vladivostok |
| 7039 | 0.5 | 2012 | 07 | 27 | 1510 | A1A     | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 27 | 1514 | A1A     | 321 | RUS | F--<br>signal | Beacon | PM97 | JARL | Vladivostok |
| 7039 | 0.5 | 2012 | 07 | 27 | 1610 | A1A     | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 27 | 1614 | A1A     | 321 | RUS | F--<br>signal | Beacon | PM97 | JARL | Vladivostok |
| 7039 | 0.5 | 2012 | 07 | 27 | 1710 | H24 A1A | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 27 | 1714 | A1A     | 321 | RUS | F--<br>signal | Beacon | PM97 | JARL | Vladivostok |
| 7039 | 0.5 | 2012 | 07 | 27 | 1810 | A1A     | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 27 | 1814 | A1A     | 321 | RUS | F--<br>signal | Beacon | PM97 | JARL | Vladivostok |
| 7039 | 0.5 | 2012 | 07 | 28 | 1110 | A1A     | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 28 | 1114 | A1A     | 37  | RUS | K--<br>signal | Beacon | PM97 | JARL | Kamchatskiy |
| 7039 | 0.5 | 2012 | 07 | 28 | 1210 | A1A     | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 28 | 1214 | A1A     | 37  | RUS | K--<br>signal | Beacon | PM97 | JARL | Kamchatskiy |
| 7039 | 0.5 | 2012 | 07 | 28 | 1310 | A1A     | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 28 | 1314 | A1A     | 37  | RUS | K--<br>signal | Beacon | PM97 | JARL | Kamchatskiy |
| 7039 | 0.5 | 2012 | 07 | 28 | 1410 | A1A     | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 28 | 1414 | A1A     | 37  | RUS | K--<br>signal | Beacon | PM97 | JARL | Kamchatskiy |

|      |     |      |    |    |      |         |     |     |               |        |      |      |             |
|------|-----|------|----|----|------|---------|-----|-----|---------------|--------|------|------|-------------|
| 7039 | 0.5 | 2012 | 07 | 28 | 1510 | A1A     | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 28 | 1514 | A1A     | 37  | RUS | K--<br>signal | Beacon | PM97 | JARL | Kamchatskiy |
| 7039 | 0.5 | 2012 | 07 | 28 | 1610 | A1A     | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 28 | 1614 | A1A     | 37  | RUS | K--<br>signal | Beacon | PM97 | JARL | Kamchatskiy |
| 7039 | 0.5 | 2012 | 07 | 28 | 1618 | A1A     | 321 | RUS | F--<br>signal | Beacon | PM97 | JARL | Vladivostok |
| 7039 | 0.5 | 2012 | 07 | 28 | 1710 | A1A     | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 28 | 1714 | A1A     | 37  | RUS | K--<br>signal | Beacon | PM97 | JARL | Kamchatskiy |
| 7039 | 0.5 | 2012 | 07 | 28 | 1720 | A1A     | 321 | RUS | F--<br>signal | Beacon | PM97 | JARL | Vladivostok |
| 7039 | 0.5 | 2012 | 07 | 28 | 1810 | A1A     | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 28 | 1814 | A1A     | 37  | RUS | K--<br>signal | Beacon | PM97 | JARL | Kamchatskiy |
| 7039 | 0.5 | 2012 | 07 | 29 | 1210 | A1A     | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 29 | 1214 | A1A     | 37  | RUS | K--<br>signal | Beacon | PM97 | JARL | Kamchatskiy |
| 7039 | 0.5 | 2012 | 07 | 29 | 1610 | A1A     | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 29 | 1614 | A1A     | 37  | RUS | K--<br>signal | Beacon | PM97 | JARL | Kamchatskiy |
| 7039 | 0.5 | 2012 | 07 | 29 | 1810 | A1A     | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 29 | 1814 | A1A     | 37  | RUS | K--<br>signal | Beacon | PM97 | JARL | Kamchatskiy |
| 7039 | 0.5 | 2012 | 07 | 30 | 1210 | H24 A1A | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 30 | 1214 | A1A     | 37  | RUS | K--<br>signal | Beacon | PM97 | JARL | Kamchatskiy |
| 7039 | 0.5 | 2012 | 07 | 30 | 1608 | A1A     | 37  | RUS | K--<br>signal | Beacon | PM97 | JARL | Kamchatskiy |
| 7039 | 0.5 | 2012 | 07 | 30 | 1612 | A1A     | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |
| 7039 | 0.5 | 2012 | 07 | 30 | 1708 | A1A     | 37  | RUS | K--<br>signal | Beacon | PM97 | JARL | Kamchatskiy |
| 7039 | 0.5 | 2012 | 07 | 30 | 1712 | A1A     | 15  | RUS | M--<br>signal | Beacon | PM97 | JARL | Magadan     |

|        |     |      |    |    |      |               |     |     |               |                                |        |       |             |
|--------|-----|------|----|----|------|---------------|-----|-----|---------------|--------------------------------|--------|-------|-------------|
| 7039   | 0.5 | 2012 | 07 | 30 | 1808 | A1A           | 37  | RUS | K--<br>siganl | Beacon                         | PM97   | JARL  | Kamchatskiy |
| 7039   | 0.5 | 2012 | 07 | 30 | 1812 | A1A           | 15  | RUS | M--<br>signal | Beacon                         | PM97   | JARL  | Magadan     |
| 7039   | 0.5 | 2012 | 07 | 31 | 1208 | A1A           | 37  | RUS | K--<br>siganl | Beacon                         | PM97   | JARL  | Kamchatskiy |
| 7039   | 0.5 | 2012 | 07 | 31 | 1212 | A1A           | 15  | RUS | M--<br>signal | Beacon                         | PM97   | JARL  | Magadan     |
| 7039   | 0.5 | 2012 | 07 | 31 | 1608 | A1A           | 15  | RUS | M--<br>signal | Beacon                         | PM97   | JARL  | Magadan     |
| 7039   | 0.5 | 2012 | 07 | 31 | 1612 | A1A           | 37  | RUS | K--<br>siganl | Beacon                         | PM97   | JARL  | Kamchatskiy |
| 7039   | 0.5 | 2012 | 07 | 31 | 1708 | A1A           | 37  | RUS | K--<br>siganl | Beacon                         | PM97   | JARL  | Kamchatskiy |
| 7039   | 0.5 | 2012 | 07 | 31 | 1808 | A1A           | 37  | RUS | K--<br>siganl | Beacon                         | PM97   | JARL  | Kamchatskiy |
| 7039   | 0.5 | 2012 | 07 | 31 | 1812 | A1A           | 15  | RUS | M--<br>signal | Beacon                         | PM97   | JARL  | Magadan     |
| 7039   |     | 2012 | 07 | DY | H24  | 0330-<br>2200 | A1A | RUS | A             | Astrakhan (No call sign) - A   | RF72LQ | NZART | ZL1BAD      |
| 7039   |     | 2012 | 07 | DY | H24  | 0330-<br>2200 | A1A | RUS | F             | Vladivostok - Beacon F - RJS   | RF72LQ | NZART | ZL1BAD      |
| 7039   |     | 2012 | 07 | DY | H24  | 0330-<br>2200 | A1A | RUS | P             | Kaliningrad - Beacon P - RMP   | RF72LQ | NZART | ZL1BAD      |
| 7039   |     | 2012 | 07 | DY | H24  | 0330-<br>2200 | A1A | RUS | C             | Moscow - Beacon C - RIW        | RF72LQ | NZART | ZL1BAD      |
| 7039   |     | 2012 | 07 | DY | H24  | 0330-<br>2200 | A1A | RUS | C             | DAILY, HARBOUR BEACON          | RF72LQ | NZART | ZL1BAD      |
| 7039.2 |     | 2012 | 7  | 23 | 1005 | A1A           |     | RU  | K             | DAILY, HARBOUR BEACON          | QG52xi | WIA   | VK4TJ       |
| 7039.2 |     | 2012 | 7  | 6  | 1950 | A1A           |     | RU  | F             | Petropavlovsk - Beacon K - RCC | QG52xi | WIA   | VK4TJ       |
| 7039.3 |     | 2012 | 07 | DY | H24  | 0330-<br>2200 | A1A | RUS | K             | DAILY, HARBOUR BEACON          | RF72LQ | NZART | ZL1BAD      |
| 7039.4 |     | 2012 | 7  | 2  | 0945 | A1A           |     | RU  | M             | Magadan - Beacon M - RTS       | QG52xi | WIA   | VK4TJ       |
| 7039.4 |     | 2012 | 07 | DY | H24  | 0330-<br>2200 | A1A | RUS | M             | Severomorsk - Beacon S - RIT   | RF72LQ | NZART | ZL1BAD      |
| 7039.9 |     | 2012 | 07 | DY | H24  | 0330-<br>2200 | A1A | RUS | S             |                                | RF72LQ | NZART | ZL1BAD      |
| 7040.0 |     | 2012 | 7  | 25 | 2000 | N0N           |     |     |               |                                | QG52xi | WIA   | VK4TJ       |
| 7040   | 0.5 | 2012 | 07 | 01 |      | 21:40         | A1A |     |               | train of " M ", "F"            |        | JARL  |             |
| 7040   | 0.5 | 2012 | 07 | 09 |      | 22:56         | A1A |     |               | train of "M","F"               |        | JARL  |             |
| 7040   | 0.5 | 2012 | 07 | 12 |      | 20:10         | A1A |     |               | train of "M"                   |        | JARL  |             |
| 7040   | 0.5 | 2012 | 07 | 14 |      | 23:02         | A1A |     |               | train of " M ", " F "          |        | JARL  |             |
| 7040   | 0.5 | 2012 | 07 | 18 |      | 23:46         | A1A |     |               | train of " F "," M "           |        | JARL  |             |
| 7040   | 0.5 | 2012 | 07 | 22 |      | 22:56         | A1A |     |               | train of " M ", "F"            |        | JARL  |             |

|        |     |      |    |    |        |           |       |        |     |     |      |      |  |  |                                                             |        |       |        |
|--------|-----|------|----|----|--------|-----------|-------|--------|-----|-----|------|------|--|--|-------------------------------------------------------------|--------|-------|--------|
| 7040   | 0.5 | 2012 | 07 | 22 |        | 7040      | A1A   |        |     |     |      |      |  |  | train of " M "                                              |        | JARL  |        |
| 7040   | 0.5 | 2012 | 07 | 24 |        | 20:19     | A1A   |        |     |     |      |      |  |  | train of " K ", " M "                                       |        | JARL  |        |
| 7040   | 0.5 | 2012 | 07 | 25 |        | 22:10     | A1A   |        |     |     |      |      |  |  | train of " M ", " F "                                       |        | JARL  |        |
| 7040   | 0.5 | 2012 | 07 | 30 |        | 05:57     | A1A   |        |     |     |      |      |  |  | train of " M ", " F ", " K "                                |        | JARL  |        |
| 7040   | 0.5 | 2012 | 07 | 31 |        | 01:58     | A1A   |        |     |     |      |      |  |  | train of " M ", " K "                                       |        | JARL  |        |
| 7040   |     | 2012 | 07 | 01 | <0259> | 0259      | G7DF  |        |     |     | ?    | Unid |  |  | HF Man Pack S3                                              | RF73MF | NZART | ZL1GWE |
| 7045.0 | 1   | 2012 | 7  | 29 | 2000   |           | F1B   | 200    |     |     |      |      |  |  | CONTINUOUS                                                  | QG52xi | WIA   | VK4TJ  |
| 7050.0 |     | 2012 | 7  | 13 | 1220   |           | A1A   |        |     |     |      |      |  |  | MIXED NUMBER/LETTER CIPHER                                  |        |       |        |
| 7054.0 | 1   | 2012 | 7  | 2  | 1940   |           | F1B   | 200    |     |     |      |      |  |  |                                                             | QG52xi | WIA   | VK4TJ  |
|        |     |      |    |    |        |           |       |        |     |     |      |      |  |  | Idling only. Russian Air Force                              | QG52xi | WIA   | VK4TJ  |
| 7054   |     | 2012 | 07 | DY | <0500> | 0500-2000 | F1B   | 200    |     | RUS | REA4 |      |  |  |                                                             | RF72LQ | NZART | ZL1BAD |
| 7054   |     | 2012 | 07 | 18 | <1929> | 1929      | F1B   | 50 200 |     | RUS | REA4 |      |  |  | RTTY Encrypted Russian Rea4 S6 UUUU Idling                  | RF73MF | NZART | ZL1GWE |
| 7054   |     | 2012 | 07 | 19 | <1841> | 1941      | F1B   | 50 200 |     | RUS | REA4 |      |  |  | RTTY Encrypted Russian Rea4 S6 UUUU Idling                  | RF73MF | NZART | ZL1GWE |
| 7054   |     | 2012 | 07 | 20 | <1940> | 1940      | F1B   | 50 200 |     | RUS | REA4 |      |  |  | RTTY Encrypted Russian Rea4 S6 UUUU Idling                  | RF73MF | NZART | ZL1GWE |
| 7054   |     | 2012 | 07 | 21 | <1959> | 1959      | F1B   | 50 200 |     | RUS | REA4 |      |  |  | RTTY Encrypted Russian Rea4 S6 Traffic ITA2-Latin           | RF73MF | NZART | ZL1GWE |
| 7054   |     | 2012 | 07 | 28 | <1940> | 1940      | F1B   | 50 200 |     | RUS | REA4 |      |  |  | RTTY Encrypted Russian REA4 S5 Idling and then traffic mode | RF73MF | NZART | ZL1GWE |
| 7055   | 34  | 2012 | 07 | 05 | 1708   |           | P0N   |        | non | non | non  |      |  |  | 7038KHz ~ 7072KHz wide pulse mode P0N OTHR ?                | PM97   | JARL  | non    |
| 7057   | 6   | 2012 | 07 | 16 | <0738> | 0738      | P0N   |        |     | ?   | Unid |      |  |  | OTHR                                                        | RE68XL | NZART | ZL2TZE |
|        |     |      |    |    |        |           |       |        |     |     |      |      |  |  | 7102KHz ~ 7136KHz wide pulse mode P0N OTHR ?                |        |       |        |
| 7059   | 34  | 2012 | 07 | 10 | 1814   |           | P0N   |        | non | non | non  |      |  |  |                                                             | PM97   | JARL  | non    |
|        |     |      |    |    |        |           |       |        |     |     |      |      |  |  | 7042KHz ~ 7076KHz wide pulse mode P0N OTHR ?                |        |       |        |
| 7059   | 34  | 2012 | 07 | 25 | 1720   |           | P0N   |        | non | non | non  |      |  |  |                                                             | PM97   | JARL  | non    |
|        |     |      |    |    |        |           |       |        |     |     |      |      |  |  | 7042KHz ~ 7076KHz wide pulse mode P0N OTHR ?                |        |       |        |
| 7059   | 34  | 2012 | 07 | 25 | 1814   |           | P0N   |        | non | non | non  |      |  |  |                                                             | PM97   | JARL  | non    |
| 7060.0 | 40  | 2012 | 7  | 25 | 2000   |           | VXX   |        |     |     |      |      |  |  | DAILY, CODAR, SWEEPS 40 KHZ                                 |        |       |        |
| 7066.8 | 3   | 2012 | 7  | 14 | 0735   |           | J3E/U |        |     |     |      |      |  |  | ASIAN                                                       | QG52xi | WIA   | VK4TJ  |
| 7072   |     | 2012 | 07 | 01 | <0256> | 0256      | G7DF  |        |     | ?   | Unid |      |  |  | HF Man Pack S2                                              | RF73MF | NZART | ZL1GWE |
| 7072   |     | 2012 | 07 | 01 | <0256> | 0256      | G7DF  |        |     | ?   | Unid |      |  |  | HF Man Pack S2 8-PSK                                        | RF73MF | NZART | ZL1GWE |
| 7075   | 30  | 2012 | 07 | 28 | <1930> | 1930      | VXX   |        |     | ?   | Unid |      |  |  | CODAR 3.5 PPS Continuous                                    | RF72LQ | NZART | ZL1BAD |

|        |     |      |    |    |        |      |       |     |     |                                                 |                                                 |        |       |        |  |  |  |
|--------|-----|------|----|----|--------|------|-------|-----|-----|-------------------------------------------------|-------------------------------------------------|--------|-------|--------|--|--|--|
|        |     |      |    |    |        |      |       |     |     | 7060KHz ~ 7094KHz wide pulse mode<br>P0N OTHR ? |                                                 |        |       |        |  |  |  |
| 7077   | 34  | 2012 | 07 | 05 | 1810   |      | P0N   | non | non | non                                             |                                                 | PM97   | JARL  | non    |  |  |  |
| 7077.5 | 35  | 2012 | 07 | 28 | <1940> | 1040 | VXX   |     | ?   | Unid                                            | CODAR S3 4 pps                                  | RF73MF | NZART | ZL1GWE |  |  |  |
| 7078.0 | 5   | 2012 | 7  | 2  | 1945   |      | G7D   |     |     |                                                 | 8 SUBCARRIERS ON 200 HZ CENTRES                 |        |       |        |  |  |  |
| 7079   |     | 2012 | 07 | 01 | <0327> | 0327 | G7DF  |     | ?   | Unid                                            | HF Man Pack S2                                  | QG52xi | WIA   | VK4TJ  |  |  |  |
| 7080   | 5   | 2012 | 07 | 01 | 1612   |      | JM    | non | non | non                                             | white noise                                     | RF73MF | NZART | ZL1GWE |  |  |  |
| 7080   | 5   | 2012 | 07 | 01 | 1712   |      | JM    | non | non | non                                             | white noise                                     | PM97   | JARL  | non    |  |  |  |
| 7080   | 5   | 2012 | 07 | 01 | 1814   |      | JM    | non | non | non                                             | white noise                                     | PM97   | JARL  | non    |  |  |  |
| 7080   | 5   | 2012 | 07 | 02 | 1608   |      | JM    | non | non | non                                             | white noise                                     | PM97   | JARL  | non    |  |  |  |
| 7080   | 0.5 | 2012 | 07 | 02 | 1706   |      | JM    | non | non | non                                             | Beacon                                          | PM97   | JARL  | non    |  |  |  |
| 7080   | 5   | 2012 | 07 | 02 | 1810   |      | JM    | non | non | non                                             | white noise                                     | PM97   | JARL  | non    |  |  |  |
| 7080   | 5   | 2012 | 07 | 03 | 1608   |      | JM    | non | non | non                                             | white noise                                     | PM97   | JARL  | non    |  |  |  |
| 7080   | 5   | 2012 | 07 | 03 | 1714   |      | JM    | non | non | non                                             | white noise                                     | PM97   | JARL  | non    |  |  |  |
| 7080   | 5   | 2012 | 07 | 03 | 1824   |      | JM    | non | non | non                                             | white noise                                     | PM97   | JARL  | non    |  |  |  |
| 7080   | 30  | 2012 | 07 | 05 | <2000> | 2000 | VXX   |     | ?   | Unid                                            | CODAR 3.5 PPS Continuous                        |        |       |        |  |  |  |
|        |     |      |    |    |        |      |       |     |     |                                                 | 7066KHz ~ 7100KHz wide pulse mode<br>P0N OTHR ? | RF72LQ | NZART | ZL1BAD |  |  |  |
| 7083   | 34  | 2012 | 07 | 06 | 1610   |      | P0N   | non | non | non                                             |                                                 | PM97   | JARL  | non    |  |  |  |
| 7083   |     | 2012 | 07 | 01 | <0302> | 0302 | G7DF  |     | ?   | Unid                                            | HF Man Pack S3                                  | RF73MF | NZART | ZL1GWE |  |  |  |
| 7088.9 |     | 2012 | 7  | 23 | 1000   |      | A1A   |     |     |                                                 | NUMBER CIPHER, QSK, SOME CYRILLIC               |        |       |        |  |  |  |
|        |     |      |    |    |        |      |       |     |     |                                                 | 7072KHz ~ 7106KHz wide puse mode<br>P0N OTHR ?  | QG52xi | WIA   | VK4TJ  |  |  |  |
| 7089   | 34  | 2012 | 07 | 06 | 1706   |      | P0N   | non | non | non                                             |                                                 | PM97   | JARL  | non    |  |  |  |
| 7089   |     | 2012 | 07 | 01 | <0301> | 0301 | G7DF  |     | ?   | Unid                                            | HF Man Pack S3                                  | RF73MF | NZART | ZL1GWE |  |  |  |
| 7090.5 | 32  | 2012 | 07 | 19 | <1841> | 1841 | VXX   |     | ?   | Unid                                            | CODAR 2 pps S4                                  | RF73MF | NZART | ZL1GWE |  |  |  |
| 7090.7 |     | 2012 | 7  | 23 | 1000   |      | N0N   |     |     |                                                 |                                                 | QG52xi | WIA   | VK4TJ  |  |  |  |
| 7092   |     | 2012 | 07 | 01 | <0302> | 0302 | G7DF  |     | ?   | Unid                                            | HF Man Pack S3                                  | RF73MF | NZART | ZL1GWE |  |  |  |
| 7100.0 | 3   | 2012 | 7  | 2  | 0945   |      | J3E/L |     |     |                                                 | VILLAGE RADIO *NEW ONE*                         |        |       |        |  |  |  |
| 7101   |     | 2012 | 07 | 06 | <2343> | 2343 | G7DF  |     | INS | Unid                                            | HF Man Pack S1                                  | QG52xi | WIA   | VK4TJ  |  |  |  |
|        |     |      |    |    |        |      |       |     | ?   | PBS                                             | Chinese Talk and Music                          | RF73MF | NZART | ZL1GWE |  |  |  |
| 7105   | 5   | 2012 | 07 | 01 | 2204   |      | A3E   | 273 | CHN | Nei Meng                                        |                                                 | PM97   | JARL  | Hohhot |  |  |  |
| 7105   | 3   | 2012 | 07 | 01 | 2206   |      | A3E   | non | CHN | non                                             | Chinese Talk and Music                          | PM97   | JARL  | non    |  |  |  |
|        |     |      |    |    |        |      |       |     |     | PBS                                             | Chinese Talk and Music                          |        |       |        |  |  |  |
| 7105   | 5   | 2012 | 07 | 02 | 2204   |      | A3E   | 273 | CHN | Nei Meng                                        |                                                 | PM97   | JARL  | Hohhot |  |  |  |
| 7105   | 3   | 2012 | 07 | 02 | 2206   |      | A3E   | non | CHN | non                                             | Chinese Talk and Music                          | PM97   | JARL  | non    |  |  |  |
|        |     |      |    |    |        |      |       |     |     | PBS                                             | Chinese Talk and Music                          |        |       |        |  |  |  |
| 7105   | 5   | 2012 | 07 | 03 | 2202   |      | A3E   | 273 | CHN | Nei Meng                                        |                                                 | PM97   | JARL  | Hohhot |  |  |  |
| 7105   | 3   | 2012 | 07 | 03 | 2204   |      | A3E   | non | CHN | non                                             | Chinese Talk and Music                          | PM97   | JARL  | non    |  |  |  |

|      |   |      |    |    |      |         |     |     |                           |                        |      |      |        |
|------|---|------|----|----|------|---------|-----|-----|---------------------------|------------------------|------|------|--------|
| 7105 | 3 | 2012 | 07 | 04 | 2206 | A3E     | 273 | CHN | PBS<br>Nei<br>Meng        | Chinese Talk and Music | PM97 | JARL | Hohhot |
| 7105 | 5 | 2012 | 07 | 05 | 2204 | A3E     | 273 | CHN | PBS<br>Nei<br>Meng        | Chinese Talk and Music | PM97 | JARL | Hohhot |
| 7105 | 3 | 2012 | 07 | 05 | 2206 | A3E     | non | CHN | non<br>PBS<br>Nei<br>Meng | Chinese Talk and Music | PM97 | JARL | non    |
| 7105 | 5 | 2012 | 07 | 06 | 2202 | A3E     | 273 | CHN | PBS<br>Nei<br>Meng        | Chinese Talk and Music | PM97 | JARL | Hohhot |
| 7105 | 3 | 2012 | 07 | 06 | 2204 | A3E     | non | CHN | non<br>PBS<br>Nei<br>Meng | Chinese Talk and Music | PM97 | JARL | non    |
| 7105 | 5 | 2012 | 07 | 07 | 2204 | A3E     | 273 | CHN | PBS<br>Nei<br>Meng        | Chinese Talk and Music | PM97 | JARL | Hohhot |
| 7105 | 3 | 2012 | 07 | 07 | 2206 | A3E     | non | CHN | non<br>PBS<br>Nei<br>Meng | Chinese Talk and Music | PM97 | JARL | non    |
| 7105 | 5 | 2012 | 07 | 08 | 2204 | A3E     | 273 | CHN | PBS<br>Nei<br>Meng        | Chinese Talk and Music | PM97 | JARL | Hohhot |
| 7105 | 3 | 2012 | 07 | 08 | 2206 | A3E     | non | CHN | non<br>PBS<br>Nei<br>Meng | Chinese Talk and Music | PM97 | JARL | non    |
| 7105 | 5 | 2012 | 07 | 09 | 2204 | A3E     | 273 | CHN | PBS<br>Nei<br>Meng        | Chinese Talk and Music | PM97 | JARL | Hohhot |
| 7105 | 3 | 2012 | 07 | 09 | 2206 | A3E     | non | CHN | non<br>PBS<br>Nei<br>Meng | Chinese Talk and Music | PM97 | JARL | non    |
| 7105 | 5 | 2012 | 07 | 10 | 2204 | A3E     | 273 | CHN | PBS<br>Nei<br>Meng        | Chinese Talk and Music | PM97 | JARL | Hohhot |
| 7105 | 3 | 2012 | 07 | 10 | 2206 | A3E     | non | CHN | non<br>PBS<br>Nei<br>Meng | Chinese Talk and Music | PM97 | JARL | non    |
| 7105 | 5 | 2012 | 07 | 11 | 2202 | A3E     | 273 | CHN | PBS<br>Nei<br>Meng        | Chinese Talk and Music | PM97 | JARL | Hohhot |
| 7105 | 3 | 2012 | 07 | 11 | 2204 | A3E     | non | CHN | non<br>PBS<br>Nei<br>Meng | Chinese Talk and Music | PM97 | JARL | non    |
| 7105 | 5 | 2012 | 07 | 12 | 2202 | H24 A3E | 273 | CHN | PBS<br>Nei<br>Meng        | Chinese Talk and Music | PM97 | JARL | Hohhot |
| 7105 | 3 | 2012 | 07 | 12 | 2206 | A3E     | non | CHN | non<br>PBS<br>Nei<br>Meng | Chinese Talk and Music | PM97 | JARL | non    |
| 7105 | 5 | 2012 | 07 | 13 | 2204 | A3E     | 273 | CHN | PBS<br>Nei<br>Meng        | Chinese Talk and Music | PM97 | JARL | Hohhot |
| 7105 | 3 | 2012 | 07 | 13 | 2206 | A3E     | non | CHN | non<br>PBS<br>Nei<br>Meng | Chinese Talk and Music | PM97 | JARL | non    |
| 7105 | 5 | 2012 | 07 | 14 | 2202 | A3E     | 273 | CHN | PBS<br>Nei<br>Meng        | Chinese Talk and Music | PM97 | JARL | Hohhot |
| 7105 | 3 | 2012 | 07 | 14 | 2204 | A3E     | non | CHN | non<br>PBS<br>Nei<br>Meng | Chinese Talk and Music | PM97 | JARL | non    |
| 7105 | 5 | 2012 | 07 | 15 | 2202 | A3E     | 273 | CHN | PBS<br>Nei<br>Meng        | Chinese Talk and Music | PM97 | JARL | Hohhot |
| 7105 | 3 | 2012 | 07 | 15 | 2204 | A3E     | non | CHN | non<br>PBS<br>Nei<br>Meng | Chinese Talk and Music | PM97 | JARL | non    |
| 7105 | 5 | 2012 | 07 | 16 | 2202 | A3E     | 273 | CHN | PBS<br>Nei<br>Meng        | Chinese Talk and Music | PM97 | JARL | Hohhot |
| 7105 | 3 | 2012 | 07 | 16 | 2204 | A3E     | non | CHN | non                       | Chinese Talk and Music | PM97 | JARL | non    |



|      |   |      |    |    |      |     |     |     |                    |                                                                      |      |      |        |
|------|---|------|----|----|------|-----|-----|-----|--------------------|----------------------------------------------------------------------|------|------|--------|
|      |   |      |    |    |      |     |     |     | PBS<br>Nei<br>Meng | Chinese Talk and Music                                               |      |      |        |
| 7105 | 4 | 2012 | 07 | 17 | 2202 | A3E | 273 | CHN | Meng               |                                                                      | PM97 | JARL | Hohhot |
| 7105 | 3 | 2012 | 07 | 17 | 2204 | A3E | non | CHN | non                | Chinese Talk and Music                                               | PM97 | JARL | non    |
|      |   |      |    |    |      |     |     |     | PBS<br>Nei<br>Meng | Chinese Talk and Music                                               |      |      |        |
| 7105 | 3 | 2012 | 07 | 18 | 2202 | A3E | 273 | CHN | Meng               |                                                                      | PM97 | JARL | Hohhot |
| 7105 | 3 | 2012 | 07 | 18 | 2204 | A3E | non | CHN | non                | Chinese Talk and Music                                               | PM97 | JARL | non    |
|      |   |      |    |    |      |     |     |     | PBS<br>Nei<br>Meng | Chinese Talk and Music                                               |      |      |        |
| 7105 | 4 | 2012 | 07 | 19 | 2202 | A3E | 273 | CHN | Meng               |                                                                      | PM97 | JARL | Hohhot |
| 7105 | 3 | 2012 | 07 | 19 | 2204 | A3E | non | CHN | non                | Chinese Talk and Music                                               | PM97 | JARL | non    |
|      |   |      |    |    |      |     |     |     | PBS<br>Nei<br>Meng | Chinese Talk and Music                                               |      |      |        |
| 7105 | 4 | 2012 | 07 | 20 | 2202 | A3E | 273 | CHN | Meng               |                                                                      | PM97 | JARL | Hohhot |
| 7105 | 3 | 2012 | 07 | 20 | 2204 | A3E | non | CHN | non                | Chinese Talk and Music                                               | PM97 | JARL | non    |
|      |   |      |    |    |      |     |     |     | PBS<br>Nei<br>Meng | Chinese Talk and Music                                               |      |      |        |
| 7105 | 4 | 2012 | 07 | 21 | 2202 | A3E | 273 | CHN | Meng               |                                                                      | PM97 | JARL | Hohhot |
| 7105 | 3 | 2012 | 07 | 21 | 2206 | A3E | non | CHN | non                | Chinese Talk and Music                                               | PM97 | JARL | non    |
|      |   |      |    |    |      |     |     |     | PBS<br>Nei<br>Meng | Chinese Talk and Music                                               |      |      |        |
| 7105 | 4 | 2012 | 07 | 22 | 2202 | A3E | 273 | CHN | Meng               |                                                                      | PM97 | JARL | Hohhot |
| 7105 | 3 | 2012 | 07 | 22 | 2204 | A3E | non | CHN | non                | Chinese Talk and Music                                               | PM97 | JARL | non    |
|      |   |      |    |    |      |     |     |     | PBS<br>Nei<br>Meng | Chinese Talk and Music                                               |      |      |        |
| 7105 | 4 | 2012 | 07 | 23 | 2204 | A3E | 273 | CHN | Meng               |                                                                      | PM97 | JARL | Hohhot |
| 7105 | 3 | 2012 | 07 | 23 | 2206 | A3E | non | CHN | non                | Chinese Talk and Music                                               | PM97 | JARL | non    |
|      |   |      |    |    |      |     |     |     | PBS<br>Nei<br>Meng | Chinese Talk and Music                                               |      |      |        |
| 7105 | 4 | 2012 | 07 | 24 | 2202 | A3E | 273 | CHN | Meng               |                                                                      | PM97 | JARL | Hohhot |
| 7105 | 3 | 2012 | 07 | 24 | 2204 | A3E | non | CHN | non                | Chinese Talk and Music                                               | PM97 | JARL | non    |
|      |   |      |    |    |      |     |     |     | PBS<br>Nei<br>Meng | Chinese Talk and Music                                               |      |      |        |
| 7105 | 4 | 2012 | 07 | 25 | 2202 | A3E | 273 | CHN | Meng               |                                                                      | PM97 | JARL | Hohhot |
| 7105 | 3 | 2012 | 07 | 25 | 2204 | A3E | non | CHN | non                | Chinese Talk and Music                                               | PM97 | JARL | non    |
|      |   |      |    |    |      |     |     |     | PBS<br>Nei<br>Meng | Chinese Talk and Music                                               |      |      |        |
| 7105 | 5 | 2012 | 07 | 26 | 2204 | A3E | 273 | CHN | Meng               |                                                                      | PM97 | JARL | Hohhot |
| 7105 | 3 | 2012 | 07 | 26 | 2206 | A3E | non | CHN | non                | Chinese Talk and Music                                               | PM97 | JARL | non    |
|      |   |      |    |    |      |     |     |     | PBS<br>Nei<br>Meng | Chinese Talk and Music 23:00UTC<br>Time signal 5+1 on time after QRT |      |      |        |
| 7105 | 3 | 2012 | 07 | 26 | 2258 | A3E | 273 | CHN | Meng               |                                                                      | PM97 | JARL | Hohhot |
|      |   |      |    |    |      |     |     |     | PBS<br>Nei<br>Meng | Chinese Talk and Music                                               |      |      |        |
| 7105 | 5 | 2012 | 07 | 27 | 2204 | A3E | 273 | CHN | Meng               |                                                                      | PM97 | JARL | Hohhot |
| 7105 | 3 | 2012 | 07 | 27 | 2206 | A3E | non | CHN | non                | Chinese Talk and Music                                               | PM97 | JARL | non    |
|      |   |      |    |    |      |     |     |     | PBS<br>Nei<br>Meng | Chinese Talk and Music                                               |      |      |        |
| 7105 | 5 | 2012 | 07 | 28 | 2204 | A3E | 273 | CHN | Meng               |                                                                      | PM97 | JARL | Hohhot |
| 7105 | 3 | 2012 | 07 | 28 | 2206 | A3E | non | CHN | non                | Chinese Talk and Music                                               | PM97 | JARL | non    |

|        |    |      |    |    |        |               |       |     |     |     |                 |                                                                                                |                                                     |              |                 |
|--------|----|------|----|----|--------|---------------|-------|-----|-----|-----|-----------------|------------------------------------------------------------------------------------------------|-----------------------------------------------------|--------------|-----------------|
| 7105   | 3  | 2012 | 07 | 29 | 2158   |               | A3E   |     | non | CHN | non             | Chinese Talk and Music<br>Chinese Talk and Music 22:00UTC<br>Time signal 5+1 on time Pro start | PM97                                                | JARL         | non             |
| 7105   | 5  | 2012 | 07 | 29 | 2200   |               | A3E   |     | 273 | CHN | PBS<br>Nei Meng |                                                                                                | PM97                                                | JARL         | Hohhot          |
| 7105   | 3  | 2012 | 07 | 29 | 2204   |               | A3E   |     | non | CHN | non             | Chinese Talk and Music<br>Chinese Talk and Music                                               | PM97                                                | JARL         | non             |
| 7105   | 5  | 2012 | 07 | 30 | 2204   |               | A3E   |     | 273 | CHN | PBS<br>Nei Meng |                                                                                                | PM97                                                | JARL         | Hohhot          |
| 7105   | 3  | 2012 | 07 | 30 | 2206   |               | A3E   |     | non | CHN | non             | Chinese Talk and Music<br>Chinese Talk and Music                                               | PM97                                                | JARL         | non             |
| 7105   | 5  | 2012 | 07 | 31 | 2204   |               | A3E   |     | 273 | CHN | PBS<br>Nei Meng |                                                                                                | PM97                                                | JARL         | Hohhot          |
| 7105   | 3  | 2012 | 07 | 31 | 2206   |               | A3E   |     | non | CHN | non             | Chinese Talk and Music                                                                         | PM97                                                | JARL         | non             |
| 7110.0 | 40 | 2012 | 7  | 1  | 2015   |               | VXX   |     |     |     |                 | DAILY, CODAR, SWEEPS 40 KHZ                                                                    |                                                     |              |                 |
| 7110.0 | 8  | 2012 | 7  | 1  | 1205   |               | A3E   |     |     | BRM |                 | SW BROADCAST<br>B-C Chinese language (Not Mandarin)<br>Music & Talk                            | QG52xi<br>QG52xi                                    | WIA<br>WIA   | VK4TJ<br>VK4TJ  |
| 7110   |    | 2012 | 07 | 14 | <1400> | 1400-<br>1430 | A3E   |     |     |     |                 |                                                                                                |                                                     |              |                 |
| 7111.0 | 1  | 2012 | 7  | 13 | 2035   |               | F1B   | 250 |     |     | ?               | Unid                                                                                           | RF72LQ<br>QG52xi                                    | NZART<br>WIA | ZL1BAD<br>VK4TJ |
| 7111   |    | 2012 | 07 | 12 | <1920> | 1920          | F1B   | 250 |     |     | ?               | Unid                                                                                           | Encrypted<br>RF72LQ                                 | NZART        | ZL1BAD          |
| 7111   |    | 2012 | 07 | 13 | <1925> | 1925          | F1B   | 250 |     |     | ?               | Unid                                                                                           | Encrypted<br>RF72LQ                                 | NZART        | ZL1BAD          |
| 7112.1 | 3  | 2012 | 7  | 7  | 0730   |               | J3E/U |     |     |     |                 |                                                                                                | ASIAN<br>QG52xi                                     | WIA          | VK4TJ           |
|        |    |      |    |    |        |               |       |     |     |     |                 | 7096KHz ~ 7130KHz wide pulse mode<br>P0N OTHR ?                                                |                                                     |              |                 |
| 7113   | 34 | 2012 | 07 | 01 | 1716   |               | P0N   |     | non | non | non             |                                                                                                | PM97                                                | JARL         | non             |
|        |    |      |    |    |        |               |       |     |     |     |                 | 7098KHz ~ 7132KHz wide pulse mode<br>P0N OTHR ?                                                |                                                     |              |                 |
| 7115   | 34 | 2012 | 07 | 07 | 1830   |               | P0N   |     | non | non | non             |                                                                                                | PM97                                                | JARL         | non             |
|        |    |      |    |    |        |               |       |     |     |     |                 | CODAR 3.5 PPS Continuous                                                                       |                                                     |              |                 |
| 7115   | 30 | 2012 | 07 | 01 | <1910> | 1910          | VXX   |     |     |     | ?               | Unid                                                                                           | RF72LQ                                              | NZART        | ZL1BAD          |
| 7116.0 | 3  | 2012 | 7  | 3  | 0840   |               | J3E/U |     |     |     |                 |                                                                                                | DAILY, ASIAN<br>QG52xi                              | WIA          | VK4TJ           |
| 7116.8 | 3  | 2012 | 7  | 6  | 2000   |               | J3E/U |     |     |     |                 |                                                                                                | DAILY, ASIAN<br>QG52xi                              | WIA          | VK4TJ           |
| 7117.0 | 5  | 2012 | 7  | 2  | 1945   |               | G7D   |     |     |     |                 |                                                                                                | DAILY, 8 SUBCARRIERS ON 200 HZ<br>CENTRES<br>QG52xi | WIA          | VK4TJ           |
|        |    |      |    |    |        |               |       |     |     |     |                 | 7102KHz ~ 7136KHz wide pulse mode<br>P0N OTHR ?                                                |                                                     |              |                 |
| 7119   | 34 | 2012 | 07 | 08 | 1710   |               | P0N   |     | non | non | non             |                                                                                                | PM97                                                | JARL         | non             |
|        |    |      |    |    |        |               |       |     |     |     |                 | 7102KHz ~ 7136KHz wide pulse mode<br>P0N OTHR ?                                                |                                                     |              |                 |
| 7119   | 34 | 2012 | 07 | 08 | 1816   |               | P0N   |     | non | non | non             |                                                                                                | PM97                                                | JARL         | non             |
|        |    |      |    |    |        |               |       |     |     |     |                 | 7102KHz ~ 7136KHz wide pulse mode<br>P0N OTHR ?                                                |                                                     |              |                 |
| 7119   | 34 | 2012 | 07 | 10 | 1708   | H24           | P0N   |     | non | non | non             |                                                                                                | PM97                                                | JARL         | 7               |
| 7120   | 5  | 2012 | 07 | 04 | 1804   |               | JM    |     | non | non | non             | white noise                                                                                    | PM97                                                | JARL         | non             |
| 7120   | 3  | 2012 | 07 | 30 | 1616   |               | JM    |     | non | non | non             | white noise                                                                                    | PM97                                                | JARL         | non             |

|        |     |      |    |    |        |           |       |     |     |     |      |                                                                      |        |       |        |
|--------|-----|------|----|----|--------|-----------|-------|-----|-----|-----|------|----------------------------------------------------------------------|--------|-------|--------|
| 7120   | 3   | 2012 | 07 | 30 | 1816   |           | JM    |     | non | non | non  | white noise                                                          | PM97   | JARL  | non    |
| 7120   | 3   | 2012 | 07 | 31 | 1710   |           | JM    |     | non | non | non  | white noise                                                          | PM97   | JARL  | non    |
| 7122.0 |     | 2012 | 7  | 25 | 1005   |           | A1A   |     |     |     |      | MIXED NUMBER/LETTER CIPHER                                           |        |       |        |
| 7122.0 | 1   | 2012 | 7  | 13 | 2035   |           | F1B   | 350 |     |     |      |                                                                      | QG52xi | WIA   | VK4TJ  |
| 7122   |     | 2012 | 07 | 13 | <1920> | 1920      | F1B   | 250 |     | ?   | Unid | Encrypted                                                            | QG52xi | WIA   | VK4TJ  |
| 7122   |     | 2012 | 07 | 30 | <2045> | 2045-2110 | F1B   | 250 |     | ?   | Unid | Encrypted                                                            | RF72LQ | NZART | ZL1BAD |
| 7123   | 4   | 2012 | 07 | 16 | <0738> | 0738      | P0N   |     |     | ?   | Unid | OTHR                                                                 | RF72LQ | NZART | ZL1BAD |
| 7124   |     | 2012 | 07 | 19 | <1853> | 1853-2019 | G7D   | 120 |     | ?   | Unid | OFDM-12 or DAB signal? S6                                            | RE68XL | NZART | ZL2TZE |
| 7132.0 | 5   | 2012 | 7  | 25 | 2000   |           | G7D   |     |     |     |      | 8 SUBCARRIERS ON 100 HZ INTERVALS. HEAVY PSK                         | RF73MF | NZART | ZL1GWE |
| 7132   | 3.3 | 2012 | 07 | 20 | <1930> | 1930      | M7B   |     |     | ?   | Unid | Multi-chnl                                                           | QG52xi | WIA   | VK4TJ  |
| 7133.0 | 1   | 2012 | 7  | 31 | 1030   |           | F1B   | 400 |     |     |      | UNUSUAL BAUD RATE                                                    | RF72LQ | NZART | ZL1BAD |
|        |     |      |    |    |        |           |       |     |     |     |      | CODAR 3.5 PPS Continuous                                             | QG52xi | WIA   | VK4TJ  |
| 7135   | 30  | 2012 | 07 | 08 | <1925> | 1925      | VXX   |     |     | ?   | Unid |                                                                      | RF72LQ | NZART | ZL1BAD |
|        |     |      |    |    |        |           |       |     |     |     |      | 7120KHz ~ 7154KHz wide pulse mode P0N OTHR ?                         |        |       |        |
| 7137   | 34  | 2012 | 07 | 02 | 1708   |           | P0N   |     | non | non | non  |                                                                      | PM97   | JARL  | non    |
|        |     |      |    |    |        |           |       |     |     |     |      | 7120KHz ~ 7154KHz wide pulse mode P0N OTHR ?                         |        |       |        |
| 7137   | 34  | 2012 | 07 | 02 | 1814   |           | P0N   |     | non | non | non  |                                                                      | PM97   | JARL  | non    |
|        |     |      |    |    |        |           |       |     |     |     |      | 7120KHz ~ 7154KHz wide pulse mode P0N OTHR ?                         |        |       |        |
| 7137   | 34  | 2012 | 07 | 04 | 1608   |           | P0N   |     | non | non | non  |                                                                      | PM97   | JARL  | non    |
|        |     |      |    |    |        |           |       |     |     |     |      | 7120KHz ~ 7154KHz wide pulse mode P0N OTHR ?                         |        |       |        |
| 7137   | 34  | 2012 | 07 | 04 | 1708   |           | P0N   |     | non | non | non  |                                                                      | PM97   | JARL  | non    |
| 7137   | 5   | 2012 | 07 | 22 | <0631> | 0631      | G7DF  |     |     | ?   | Unid | HF Man Pack S1 8-PSK                                                 | RF73MF | NZART | ZL1GWE |
| 7139.0 |     | 2012 | 7  | 6  | 2000   |           | G7D   |     |     |     |      | 8 SUBCARRIERS ON 100 HZ INTERVALS. HEAVY PSK                         |        |       |        |
| 7140.0 | 3   | 2012 | 7  | 23 | 1000   |           | J3E/U |     |     | PHL |      | TAGALOG                                                              | QG52xi | WIA   | VK4TJ  |
|        |     |      |    |    |        |           |       |     |     |     |      | OFDM-34 or DAB Signal? S4                                            | QG52xi | WIA   | VK4TJ  |
| 7140   |     | 2012 | 07 | 19 | <1905> | 1905      | G7D   | 120 |     | ?   | Unid |                                                                      | RF73MF | NZART | ZL1GWE |
| 7141   | 3   | 2012 | 07 | 06 | 1614   |           | JM    |     | non | non | non  | white noise                                                          | PM97   | JARL  | non    |
| 7141   | 5   | 2012 | 07 | 06 | 1710   |           | JM    |     | non | non | non  | white noise                                                          | PM97   | JARL  | non    |
| 7141   | 5   | 2012 | 07 | 06 | 1810   |           | JM    |     | non | non | non  | white noise                                                          | PM97   | JARL  | non    |
|        |     |      |    |    |        |           |       |     |     |     |      | Non Amateurs Men chatting + VHF radio in background Spanish speaking |        |       |        |
| 7141   |     | 2012 | 07 | 19 | <0730> | 0730      | J3E/U |     |     | ?   | Unid |                                                                      | RF80HL | NZART | ZL2iFB |

|        |     |      |    |    |        |           |       |     |     |     |     |      |                                              |        |       |        |
|--------|-----|------|----|----|--------|-----------|-------|-----|-----|-----|-----|------|----------------------------------------------|--------|-------|--------|
| 7145   | 30  | 2012 | 07 | 02 | <1900> | 1900      | VXX   |     |     |     | ?   | Unid | CODAR 3.5 PPS Continuous                     | RF72LQ | NZART | ZL1BAD |
| 7145   | 30  | 2012 | 07 | 13 | <1925> | 1925      | VXX   |     |     |     | ?   | Unid | CODAR 3.5 PPS Continuous                     | RF72LQ | NZART | ZL1BAD |
| 7145   |     | 2012 | 07 | 19 | <1856> | 1856      | G7DF  |     |     |     | ?   | Unid | HF Man Pack 8-PSK S4 S3                      | RF73MF | NZART | ZL1GWE |
| 7150.0 | 3   | 2012 | 7  | 30 | 1010   |           | J3E/L |     |     |     | INS |      | ASIAN, KIDS TALKING TO DADDY                 | QG52xi | WIA   | VK4TJ  |
| 7150.9 | 3   | 2012 | 7  | 14 | 0805   |           | J3E/U |     |     |     |     |      |                                              | QG52xi | WIA   | VK4TJ  |
| 7160.0 | 5   | 2012 | 7  | 5  | 1200   |           | G7D   |     |     |     |     |      | white noise                                  | QG52xi | WIA   | VK4TJ  |
| 7160   | 3   | 2012 | 07 | 10 | 1712   |           | JM    |     | non | non | non |      | PM97                                         | JARL   | 7     |        |
| 7160.2 | 3   | 2012 | 7  | 23 | 0955   |           | J3E/U |     |     |     | INS |      | BAHASA                                       | QG52xi | WIA   | VK4TJ  |
| 7162   |     | 2012 | 07 | 14 | <1400> | 1400-1430 | F1B   | 250 |     |     | ?   | Unid | 5 letter groups                              | RF72LQ | NZART | ZL1BAD |
| 7162   |     | 2012 | 07 | 14 | <1400> | 1400-1430 | F1B   | 250 |     |     | ?   | Unid | 5 letter groups                              | RF72LQ | NZART | ZL1BAD |
| 7162   |     | 2012 | 07 | 18 | <0652> | 0652      | G7DF  |     |     |     | ?   | Unid | HF Man Pack S1 8-PSK                         | RF73MF | NZART | ZL1GWE |
| 7164.0 | 5   | 2012 | 7  | 17 | 2055   |           | F1B   | 51  | 323 |     | RUS |      | QG52xi                                       | WIA    | VK4TJ |        |
| 7164   | 2.3 | 2012 | 07 | 17 | <2000> | 2000      | F1B   | 50  | 325 |     | RUS | Unid | AT3400D Russian Modem interspersed with CW   | RF73MF | NZART | ZL1GWE |
| 7164   |     | 2012 | 07 | 17 | <2000> | 2000      | A1A   |     |     |     | RUS | Unid | CW QRW 22 ZCT ZBD ZFA QSW 1K                 |        |       |        |
| 7166.0 | 5   | 2012 | 07 | 14 | 2010   |           | G7D   |     |     |     |     |      | ZCT ZBD ZFA QSU 1K                           | RF73MF | NZART | ZI1GWE |
| 7170.0 | 5   | 2012 | 7  | 12 | 2000   |           | G7D   |     |     |     |     |      | MANY SUBCARRIERS ON 30-40 HZ INTERVALS       | QG52xi | WIA   | VK4TJ  |
| 7170   | 3.3 | 2012 | 07 | 12 | <1930> | 1930      | M7B   |     |     |     | ?   | Unid | 8 SUBCARRIERS ON 200 HZ CENTRES              | QG52xi | WIA   | VK4TJ  |
| 7170   |     | 2012 | 07 | 18 | <2021> | 2021      | G7DF  |     |     |     | ?   | Unid | Multi-chnl                                   | RF72LQ | NZART | ZL1BAD |
| 7171.0 | 3   | 2012 | 7  | 2  | 0920   |           | F1B   |     |     |     |     |      | HF Man Pack S1 8-PSK                         | RF73MF | NZART | ZL1GWE |
| 7171.0 | 3   | 2012 | 7  | 9  | 0915   |           | J3E/L |     |     |     |     |      | SELCALL TONES                                | QG52xi | WIA   | VK4TJ  |
| 7171   |     | 2012 | 07 | 06 | <2349> | 2349      | G7DF  |     |     |     | PHL |      | TAGALOG, FISHBOATS, ENGINE NOISE             | QG52xi | WIA   | VK4TJ  |
| 7172   |     | 2012 | 07 | 07 | <0015> | 0015      | G7DF  |     |     |     | ?   | Unid | HF Man Pack S2                               | RF73MF | NZART | ZL1GWE |
| 7176   | 5   | 2012 | 07 | 05 | 1606   |           | JM    |     | non | non | non |      | HF Man Pack S2                               | RF73MF | NZART | ZL1GWE |
| 7176   |     | 2012 | 07 | 18 | <2019> | 2019      | G7DF  |     |     |     | ?   | Unid | white noise                                  | PM97   | JARL  | non    |
| 7178.0 | 5   | 2012 | 7  | 3  | 0840   |           | G7D   |     |     |     |     |      | HF Man Pack S2 8-PSK                         | RF73MF | NZART | ZL1GWE |
| 7178   |     | 2012 | 07 | 18 | <0653> | 0653      | G7DF  |     |     |     | ?   | Unid | 100 HZ SUBCARRIERS, SWEEPING PSK             | QG52xi | WIA   | VK4TJ  |
| 7179.0 | 3   | 2012 | 7  | 23 | 0950   |           | J3E/U |     |     |     | PHL |      | HF Man Pack S1 6-PSK                         | RF73MF | NZART | ZL1GWE |
| 7179   | 34  | 2012 | 07 | 28 | 1722   |           | P0N   |     | non | non | non |      | TAGALOG                                      | QG52xi | WIA   | VK4TJ  |
| 7180.0 | 40  | 2012 | 7  | 30 | 1000   |           | VXX   |     |     |     |     |      | 7162KHz ~ 7196KHz wide pulse mode P0N OTHR ? | PM97   | JARL  | non    |
| 7181   |     | 2012 | 07 | 18 | <2350> | 2350      | G7DF  |     |     |     | ?   | Unid | DAILY, CODAR, SWEEPS 40 KHZ                  | QG52xi | WIA   | VK4TJ  |
|        |     |      |    |    |        |           |       |     |     |     |     |      | HF Man Pack S2                               | RF73MF | NZART | ZL1GWE |

|         |     |      |    |    |                  |      |       |     |     |      |                                                                |                  |            |                |
|---------|-----|------|----|----|------------------|------|-------|-----|-----|------|----------------------------------------------------------------|------------------|------------|----------------|
| 7182    |     | 2012 | 07 | 01 | <0324>           | 0324 | G7DF  |     | ?   | Unid | HF Man Pack S3                                                 | Rf73MF           | NZART      | ZL1GWE         |
| 7183    | 2.4 | 2012 | 07 | 18 | <2016>           | 2016 | G7D   | 120 | ?   | Unid | ODFM-12 tones S3                                               | RF73MF           | NZART      | ZL1GWE         |
| 7184    |     | 2012 | 07 | 19 | <1902>           | 1902 | G7DF  |     | ?   | Unid | HF Man Pack S4 8-PSK                                           | RF73MF           | NZART      | ZL1GWE         |
| 7186.0  | 5   | 2012 | 7  | 25 | 1000             |      | G7D   |     |     |      | 100 HZ SUBCARRIERS                                             | QG52xi           | WIA        | VK4TJ          |
| 7188    |     | 2012 | 07 | 01 | <0311>           | 0311 | G7DF  |     | ?   | Unid | HF Man Pack S3                                                 | RF73MF           | NZART      | ZL1GWE         |
| 7189.5  | 7   | 2012 | 07 | 16 | <0738>           | 0738 | P0N   |     | ?   | Unid | P0N                                                            | RE68XL           | NZART      | ZL2TZE         |
| 7193.3  | 3   | 2012 | 7  | 23 | 0950             |      | J3E/U |     | PHL |      | TAGALOG                                                        | QG52xi           | WIA        | VK4TJ          |
| 7195.0  | 8   | 2012 | 7  | 5  | 1200             |      | A3E   |     |     |      | SW BROADCAST                                                   | QG52xi           | WIA        | VK4TJ          |
| 7196.0  | 5   | 2012 | 7  | 31 | 1020             |      | G1D   |     |     |      | HEAVY PSK                                                      | QG52xi           | WIA        | VK4TJ          |
| 7200.0  | 6   | 2012 | 7  | 1  | 0910             |      | A3E   |     | SUD |      | DAILY, SW BROADCAST                                            | QG52xi           | WIA        | VK4TJ          |
| 7203    |     | 2012 | 07 | 01 | <0300>           | 0300 | G7DF  |     | ?   | Unid | HF Man Pack S3                                                 | RF73MF           | NZART      | ZL1GWE         |
| 7209    |     | 2012 | 07 | 01 | <0306>           | 0306 | G7DF  |     | ?   | Unid | HF Man Pack S3                                                 | RF73MF           | NZART      | ZL1GWE         |
| 7237    |     | 2012 | 07 | 06 | <2341>           | 2341 | G7DF  |     | ?   | Unid | HF Man Pack S2                                                 | RF73MF           | NZART      | ZL1GWE         |
| 7262    |     | 2012 | 07 | 07 | <0016>           | 0016 | G7DF  |     | ?   | Unid | HF Man Pack S2                                                 | RF73MF           | NZART      | ZL1GWE         |
| 7263    |     | 2012 | 07 | 01 | <0259>           | 0259 | G7DF  |     | ?   | Unid | HF Man Pack S3 8-PSK                                           | RF73MF           | NZART      | ZL1GWE         |
| 7267    |     | 2012 | 07 | 06 | <2356>           | 2356 | G7DF  |     | ?   | Unid | HF Man Pack S1                                                 | RF73MF           | NZART      | ZL1GWE         |
| 7271    |     | 2012 | 07 | 07 | <0023>           | 0023 | G7DF  |     | ?   | Unid | HF Man Pack S2                                                 | RF73MF           | NZART      | ZL1GWE         |
| 7282    |     | 2012 | 07 | 06 | <2351>           | 2351 | G7DF  |     | ?   | Unid | HF Man Pack S1                                                 | RF73MF           | NZART      | ZL1GWE         |
| 7349    |     | 2012 | 07 | 01 | <0256>           | 0256 | G7DF  |     | ?   | Unid | HF Man Pack S3                                                 | RF73MF           | NZART      | ZL1GWE         |
|         |     |      |    |    |                  |      |       |     |     |      | SRI LANKAN FISHING TRAWLERS IN<br>SINHALA LANGUAGE ONLY – 2 OM |                  |            |                |
| 10101   |     | 2012 | 07 | 14 | <0110-<br>0120>  |      | J3E/U |     | CLN | UNID |                                                                | MK82             | ARSI       |                |
|         |     |      |    |    |                  |      |       |     |     |      | SRI LANKAN FISHING TRAWLERS IN<br>SINHALA LANGUAGE ONLY – 2 OM |                  |            |                |
| 10111   |     | 2012 | 07 | 23 | <0110-<br>0115>  |      | J3E/U |     | CLN | UNID |                                                                | MK82             | ARSI       |                |
|         |     |      |    |    |                  |      |       |     |     |      | OFDM-25 tones 46 Hz spacing S6                                 |                  |            |                |
| 10112   | 1.2 | 2012 | 07 | 18 | <1920>           | 1920 | G7D   | 330 | ?   | Unid |                                                                | RF73MF           | NZART      | ZL1GWE         |
| 10112   | 1.2 | 2012 | 07 | 27 | <1949>           | 1949 | G7D   |     | ?   | Unid | OFDM-25 tones S6                                               | RF73MF           | NZART      | ZL1GWE         |
| 10140.0 | 8   | 2012 | 7  | 23 | 0940             |      | A3E   |     | KRE |      | SW BROADCAST                                                   | QG52xi           | WIA        | VK4TJ          |
| 10140   |     | 2012 | 07 | 27 | <1950>           | 1950 | G7DF  |     | >   | Unid | HF Man Pack 8-PSK S2                                           | RF73MF           | NZART      | ZL1GWE         |
| 14000.0 | 3   | 2012 | 7  | 2  | 0845             |      | J3E/U |     |     |      | ASIAN, FISHBOATS, ENGINE NOISE,<br>SINGING                     |                  |            |                |
| 14000   | 3   | 2012 | 7  | 1  | 00:50--<br>00:20 |      | J3E/U | 315 | CLN |      | Group of males, vy weak sig                                    | QG52xi<br>OF84wx | WIA<br>WIA | VK4TJ<br>VK6XW |
| 14000   | 3   | 2012 | 7  | 1  | 06:08--<br>06:30 |      | J3E/U | 315 | CLN |      | 2 males                                                        | OF84wx           | WIA        | VK6XW          |
| 14000   | 3   | 2012 | 7  | 2  | 00:10--<br>01:15 |      | J3E/U | 315 | CLN |      | Group of males, on-off                                         | OF84wx           | WIA        | VK6XW          |
| 14000   | 3   | 2012 | 7  | 2  | 09:03--<br>09:30 |      | J3E/U | 315 | CLN |      | Group of males                                                 | OF84wx           | WIA        | VK6XW          |
| 14000   |     | 2012 | 7  | 3  | 00:00--<br>05:40 |      |       |     |     |      | No activity at all                                             | OF84wx           | WIA        | VK6XW          |

|       |   |      |   |    |                   |       |     |     |                                              |        |     |       |
|-------|---|------|---|----|-------------------|-------|-----|-----|----------------------------------------------|--------|-----|-------|
| 14000 | 3 | 2012 | 7 | 3  | 07:00--<br>07:01  | J3E/U | 315 | CLN | 1 male calling, no reply                     | OF84wx | WIA | VK6XW |
| 14000 | 3 | 2012 | 7 | 3  | 08:01--<br>08:02  | J3E/U | 315 | CLN | 1 male calling, no reply                     | OF84wx | WIA | VK6XW |
| 14000 | 3 | 2012 | 7 | 3  | 09:00--<br>09:07  | J3E/U | 315 | CLN | 2 males talking                              | OF84wx | WIA | VK6XW |
| 14000 | 3 | 2012 | 7 | 4  | 00:05--<br>00:12  | J3E/U | 315 | CLN | 2 males                                      | OF84wx | WIA | VK6XW |
| 14000 | 3 | 2012 | 7 | 4  | 08:12--<br>08:32  | J3E/U | 315 | CLN | 2 males                                      | OF84wx | WIA | VK6XW |
| 14000 | 3 | 2012 | 7 | 4  | 23:30--<br>23:44  | J3E/U | 315 | CLN | Group of males                               | OF84wx | WIA | VK6XW |
| 14000 | 3 | 2012 | 7 | 5  | 23:42--<br>01:50  | J3E/U | 315 | CLN | 2 males                                      | OF84wx | WIA | VK6XW |
| 14000 | 3 | 2012 | 7 | 6  | 06:20--<br>07:22  | J3E/U | 315 | CLN | 1 male calling many times, no reply          | OF84wx | WIA | VK6XW |
| 14000 | 3 | 2012 | 7 | 6  | 23:48--<br>02:00> | J3E/U | 315 | CLN | 2 males on-off only short talks              | OF84wx | WIA | VK6XW |
| 14000 | 3 | 2012 | 7 | 7  | 03:40--<br>07:25  | J3E/U | 315 | CLN | 1 male short calls, no reply                 | OF84wx | WIA | VK6XW |
| 14000 | 3 | 2012 | 7 | 7  | 22:37--<br>01:45> | J3E/U | 315 | CLN | 1 male calling, 00:37 - 2 males until 01:45Z | OF84wx | WIA | VK6XW |
| 14000 | 3 | 2012 | 7 | 8  | 06:15--<br>08:30  | J3E/U | 315 | CLN | 2 males, on-off                              | OF84wx | WIA | VK6XW |
| 14000 | 3 | 2012 | 7 | 8  | 23:30--<br>01:20  | J3E/U | 315 | CLN | 2 males                                      | OF84wx | WIA | VK6XW |
| 14000 | 3 | 2012 | 7 | 9  | 04:02--<br>08:40  | J3E/U | 315 | CLN | 2 males, on-Off last call 08:40Z             | OF84wx | WIA | VK6XW |
| 14000 | 3 | 2012 | 7 | 9  | 23:25--<br>00:20  | J3E/U | 315 | CLN | 2 males                                      | OF84wx | WIA | VK6XW |
| 14000 | 3 | 2012 | 7 | 10 | 01:07--<br>01:21  | J3E/U | 315 | CLN | 2 males                                      | OF84wx | WIA | VK6XW |
| 14000 | 3 | 2012 | 7 | 10 | 01:55--<br>02:20  | J3E/U | 315 | CLN | 2 males                                      | OF84wx | WIA | VK6XW |
| 14000 | 3 | 2012 | 7 | 10 | 06:00--<br>07:45  | J3E/U | 315 | CLN | 2 males                                      | OF84wx | WIA | VK6XW |
| 14000 | 3 | 2012 | 7 | 10 | 06:00--<br>07:45  | J3E/U | 315 | CLN | 2 males, on-Off                              | OF84wx | WIA | VK6XW |
| 14000 | 3 | 2012 | 7 | 10 | 08:33--<br>09:13  | J3E/U | 315 | CLN | 2 males                                      | OF84wx | WIA | VK6XW |
| 14000 | 3 | 2012 | 7 | 11 | 00:15--<br>02:00  | J3E/U | 315 | CLN | Group of males                               | OF84wx | WIA | VK6XW |
| 14000 | 3 | 2012 | 7 | 11 | 03:12--<br>05:30  | J3E/U | 315 | CLN | Group of males, on-off                       | Of84wx | WIA | VK6XW |

|       |   |      |   |    |                   |       |     |     |                               |        |     |       |
|-------|---|------|---|----|-------------------|-------|-----|-----|-------------------------------|--------|-----|-------|
| 14000 | 3 | 2012 | 7 | 12 | <06:10--<br>06:23 | J3E/U | 315 | CLN | 2 males                       | OF84wx | WIA | VK6XW |
| 14000 | 3 | 2012 | 7 | 12 | 08:50--<br>09:20  | J3E/U | 315 | CLN | 2 males                       | OF84wx | WIA | VK6XW |
| 14000 | 3 | 2012 | 7 | 12 | 23:20--<br>01:12  | J3E/U | 315 | CLN | 2 males, on-off               | OF84wx | WIA | VK6XW |
| 14000 | 3 | 2012 | 7 | 13 | 01:44--<br>02:15  | J3E/U | 315 | CLN | 2 males making short calls    | OF84wx | WIA | VK6XW |
| 14000 | 3 | 2012 | 7 | 13 | 06:00--<br>08:30  | J3E/U | 315 | CLN | 2 males, on-off               | OF84wx | WIA | VK6XW |
| 14000 | 3 | 2012 | 7 | 13 | 23:42--<br>23:46  | J3E/U | 315 | CLN | 2 males                       | OF84wx | WIA | VK6XW |
| 14000 | 3 | 2012 | 7 | 14 | 00:03--<br>00:06  | J3E/U | 315 | CLN | 2 males                       | OF84wx | WIA | VK6XW |
| 14000 | 3 | 2012 | 7 | 14 | 00:31--<br>00:42  | J3E/U | 315 | CLN | 2 males                       | OF84wx | WIA | VK6XW |
| 14000 | 3 | 2012 | 7 | 14 | 07:00--<br>09:00  | J3E/U | 315 | CLN | 2 males 2 calls in 2 hrs,     | OF84wx | WIA | VK6XW |
| 14000 | 3 | 2012 | 7 | 14 | 23:57--<br>00*07  | J3E/U | 315 | CLN | 3 males                       | OF84wx | WIA | VK6XW |
| 14000 | 3 | 2012 | 7 | 15 | 06:45--<br>08:20  | J3E/U | 315 | CLN | Group of males                | OF84wx | WIA | VK6XW |
| 14000 | 3 | 2012 | 7 | 15 | 23:24--<br>00:25  | J3E/U | 315 | CLN | 2 males                       | OF84wx | WIA | VK6XW |
| 14000 | 3 | 2012 | 7 | 16 | 00:40--<br>01:05  | J3E/U | 315 | CLN | Group of males                | OF84wx | WIA | VK6XW |
| 14000 | 3 | 2012 | 7 | 16 | 08:15--<br>08:40  | J3E/U | 315 | CLN | Single male calling, no reply | OF84wx | WIA | VK6XW |
| 14000 | 3 | 2012 | 7 | 17 | 00:17--<br>00:26  | J3E/U | 315 | CLN | Group of males                | OF84wx | WIA | VK6XW |
| 14000 | 3 | 2012 | 7 | 17 | 23:38--<br>01:00  | J3E/U | 315 | CLN | 2 males on-off                | OF84wx | WIA | VK6XW |
| 14000 | 3 | 2012 | 7 | 18 | 01:25--<br>01:40  | J3E/U | 315 | CLN | 2 males                       | OF84wx | WIA | VK6XW |
| 14000 | 3 | 2012 | 7 | 18 | 07:35--<br>09:10  | J3E/U | 315 | CLN | 2 males                       | OF84wx | WIA | VK6XW |
| 14000 | 3 | 2012 | 7 | 18 | 23:30--<br>01:15  | J3E/U | 315 | CLN | Group of males                | OF84wx | WIA | VK6XW |
| 14000 | 3 | 2012 | 7 | 19 | 03:30--<br>05:00  | J3E/U | 315 | CLN | Group of males                | OF84wx | WIA | VK6XW |
| 14000 | 3 | 2012 | 7 | 19 | 07:50--<br>08:55  | J3E/U | 315 | CLN | 2 males, calling on-off       | OF84wx | WIA | VK6XW |
| 14000 | 3 | 2012 | 7 | 19 | 23:20--<br>00:03  | J3E/U | 315 | CLN | Group of males                | OF84wx | WIA | VK6XW |

|       |   |      |   |    |                   |       |     |     |                                                                 |        |     |       |
|-------|---|------|---|----|-------------------|-------|-----|-----|-----------------------------------------------------------------|--------|-----|-------|
| 14000 | 3 | 2012 | 7 | 20 | 00:18--<br>09:20  | J3E/U | 315 | CLN | 2 males, calling and talking on and off, about every 15minutes  | OF84wx | WIA | VK6XW |
| 14000 | 3 | 2012 | 7 | 20 | 23:25--<br>23:5-  | J3E/U | 315 | CLN | 2 males talking, stopped when some noiselevel S9 disturbed them | OF84wx | WIA | VK6XW |
| 14000 | 3 | 2012 | 7 | 21 | 01:12--<br>06:45  | J3E/U | 315 | CLN | Group of males, active 3-4times per hour                        | OF84wx | WIA | VK6XW |
| 14000 | 3 | 2012 | 7 | 21 | 07:10--<br>08:47  | J3E/U | 315 | CLN | 2 males                                                         | OF84wx | WIA | VK6XW |
| 14000 | 3 | 2012 | 7 | 21 | 23:15--<br>01:30  | J3E/U | 315 | CLN | 2 males                                                         | OF84wx | WIA | VK6XW |
| 14000 | 3 | 2012 | 7 | 22 | 01:50--<br>08:45> | J3E/U | 315 | CLN | Group of males, on--off                                         | OF84wx | WIA | VK6XW |
| 14000 | 3 | 2012 | 7 | 22 | 23:43--<br>00:45  | J3E/U | 315 | CLN | 2 males                                                         | OF84wx | WIA | VK6XW |
| 14000 | 3 | 2012 | 7 | 23 | 00:56--<br>02:04> | J3E/U | 315 | CLN | 2 males talking all the time                                    | OF84wx | WIA | VK6XW |
| 14000 | 3 | 2012 | 7 | 23 | 04:10--<br>07:50  | J3E/U | 315 | CLN | long talks, and short talk towards the end                      | OF84wx | WIA | VK6XW |
| 14000 | 3 | 2012 | 7 | 23 | 23:15--<br>01:50  | J3E/U | 315 | CLN | Group of males                                                  | OF84wx | WIA | VK6XW |
| 14000 | 3 | 2012 | 7 | 24 | 07:05--<br>08:20  | J3E/U | 315 | CLN | Group of males, some singing                                    | OF84wx | WIA | VK6XW |
| 14000 | 3 | 2012 | 7 | 24 | 08:22--<br>08:56  | J3E/U | 315 | CLN | One man singing, S8! then talking to others                     | OF84wx | WIA | VK6XW |
| 14000 | 3 | 2012 | 7 | 24 | 23:10--<br>23:15  | J3E/U | 315 | CLN | 2 males                                                         | OF84wx | WIA | VK6XW |
| 14000 | 3 | 2012 | 7 | 25 | 00:00--<br>00:01  | J3E/U | 315 | CLN | 1 male calling, no reply                                        | OF84wx | WIA | VK6XW |
| 14000 | 3 | 2012 | 7 | 25 | 00:50--<br>01:12  | J3E/U | 315 | CLN | 2 males, talking                                                | OF84wx | WIA | VK6XW |
| 14000 | 3 | 2012 | 7 | 25 | 01:50--<br>02:08  | J3E/U | 315 | CLN | 2 males                                                         | OF84wx | WIA | VK6XW |
| 14000 | 3 | 2012 | 7 | 25 | 07:12--<br>09:15  | J3E/U | 315 | CLN | 2 males calling and talking 3-4 times per hour                  | OF84wx | WIA | VK6XW |
| 14000 | 3 | 2012 | 7 | 25 | 23:37--<br>00:42  | J3E/U | 315 | CLN | 2 males                                                         | OF84wx | WIA | VK6XW |
| 14000 | 3 | 2012 | 7 | 26 | 08:30--<br>08:35  | J3E/U | 315 | CLN | Group of males                                                  | OF84wx | WIA | VK6XW |
| 14000 | 3 | 2012 | 7 | 27 | 00:00--<br>00:02  | J3E/U | 315 | CLN | 2 males                                                         | OF84wx | WIA | VK6XW |
| 14000 | 3 | 2012 | 7 | 27 | 01:20--<br>03:10  | J3E/U | 315 | CLN | Group of males, on-off                                          | OF84wx | WIA | VK6XW |



|         |   |      |   |    |                    |              |     |     |                                                                          |        |     |       |
|---------|---|------|---|----|--------------------|--------------|-----|-----|--------------------------------------------------------------------------|--------|-----|-------|
| 14000   | 3 | 2012 | 7 | 27 | 05:15--<br>05:20   | J3E/U        | 315 | CLN | 2 males                                                                  | OF84wx | WIA | VK6XW |
| 14000   | 3 | 2012 | 7 | 27 | 08:50--<br>09:15   | J3E/U        | 315 | CLN | Group of males                                                           | OF84wx | WIA | VK6XW |
| 14000   | 3 | 2012 | 7 | 27 | 23:45--<br>00:45   | J3E/U        | 315 | CLN | 2 males                                                                  | OF84wx | WIA | VK6XW |
| 14000   | 3 | 2012 | 7 | 28 | 03:47--<br>03:57   | J3E/U        | 315 | CLN | 2 males                                                                  | OF84wx | WIA | VK6XW |
| 14000   | 3 | 2012 | 7 | 28 | 07:00--<br>08:56   | J3E/U        | 315 | CLN | 2 males, on--Off 4 times /hr                                             | OF84wx | WIA | VK6XW |
| 14000   | 3 | 2012 | 7 | 29 | 00:02--<br>01:40>  | J3E/U        | 315 | CLN | 2 males                                                                  | OF84wx | WIA | VK6XW |
| 14000   | 3 | 2012 | 7 | 29 | <06:30--<br>07:12> | J3E/U        | 315 | CLN | 2 males                                                                  | OF84wx | WIA | VK6XW |
| 14000   | 3 | 2012 | 7 | 29 | 23:25--<br>23:40   | J3E/U        | 315 | CLN | 2 males                                                                  | OF84wx | WIA | VK6XW |
| 14000   | 3 | 2012 | 7 | 30 | 00:04--<br>02:00   | J3E/U        | 315 | CLN | 2 males                                                                  | OF84wx | WIA | VK6XW |
| 14000   | 3 | 2012 | 7 | 30 | 05:20--<br>05:30   | J3E/U        | 315 | CLN | 2 males                                                                  | OF84wx | WIA | VK6XW |
| 14000   | 3 | 2012 | 7 | 30 | 07:00--<br>09:20   | J3E/U        | 315 | CLN | 2 males                                                                  | OF84wx | WIA | VK6XW |
| 14000   | 3 | 2012 | 7 | 30 | 23:25--<br>23:27   | J3E/U        | 315 | CLN | 1 male calling, no reply                                                 | OF84wx | WIA | VK6XW |
| 14000   | 3 | 2012 | 7 | 31 | 00:35--<br>03:15   | J3E/U        | 315 | CLN | 2 males very active play music from radio stn                            | OF84wx | WIA | VK6XW |
| 14000   | 3 | 2012 | 7 | 31 | 06:45--<br>08:12   | J3E/U        | 315 | CLN | Group of males active with talk and re-play radio                        | OF84wx | WIA | VK6XW |
| 14000   | 3 | 2012 | 7 | 31 | 11:00--<br>1940    | J3E/U        | 315 | CLN | Group of males on/off all the time also re-play music from broadcast stn | OF84wx | WIA | VK6XW |
| 14000.1 | 3 | 2012 | 7 | 22 | 2230               | J3E/U        |     |     | PORTUGUESE                                                               | QG52xi | WIA | VK4TJ |
| 14001.3 | 3 | 2012 | 7 | 25 | 01:55--<br>02:50   | J3E/U        | 315 | CLN | Group of males                                                           | OF84wx | WIA | VK6XW |
| 14001.4 | 3 | 2012 | 7 | 24 | 00:55--<br>01:01   | J3E/U        | 315 | CLN | 2 males                                                                  | OF84wx | WIA | VK6XW |
| 14001.5 | 5 | 2012 | 7 | 19 | 0850               | G7D          |     |     | PAIRS OF SUBCARRIERS ON 300 HZ CENTRES                                   | QG52xi | WIA | VK4TJ |
| 14001.5 | 3 | 2012 | 7 | 13 | 07:30--<br>07:34   | J3E/U        | 315 | CLN | 2 males                                                                  | OF84wx | WIA | VK6XW |
| 14002.1 | 3 | 2012 | 7 | 27 | 00:45--<br>0056    | <b>J3E/L</b> | 315 | CLN | 3 males                                                                  | OF84wx | WIA | VK6XW |
| 14005.0 | 8 | 2012 | 7 | 22 | 2230               | A3E          |     | PHL | VOA IMD                                                                  | QG52xi | WIA | VK4TJ |

|         |   |      |    |    |                  |       |     |     |      |                                                                |        |      |       |
|---------|---|------|----|----|------------------|-------|-----|-----|------|----------------------------------------------------------------|--------|------|-------|
|         |   |      |    |    |                  |       |     |     |      | SRI LANKAN FISHING TRAWLERS IN<br>SINHALA LANGUAGE ONLY – 2 OM |        |      |       |
| 14005   |   | 2012 | 07 | 14 | <0110-<br>0115>  | J3E/U |     | CLN | UNID |                                                                | MK82   | ARSI |       |
| 14005.1 | 3 | 2012 | 7  | 2  | 0835             | J3E/U |     |     |      | DAILY, ASIAN                                                   | QG52xi | WIA  | VK4TJ |
| 14008   | 3 | 2012 | 7  | 5  | 00:35--<br>00:50 | J3E/U | 315 | CLN |      | Group of males                                                 | OF84wx | WIA  | VK6XW |
| 14010.0 | 1 | 2012 | 7  | 12 | 0720             | F1B   |     |     |      | ALE-TYPE SIGNAL, REPEATED MANY<br>TIMES                        | QG52xi | WIA  | VK4TJ |
|         |   |      |    |    |                  |       |     |     |      | SRI LANKAN FISHING TRAWLERS IN<br>SINHALA LANGUAGE ONLY – 2 OM |        |      |       |
| 14014   |   | 2012 | 07 | 16 | <0420-<br>0435>  | J3E/U |     | CLN | UNID |                                                                | MK82   | ARSI |       |
| 14019.0 | 3 | 2012 | 7  | 21 | 2130             | J3E/U |     |     |      | ASIAN, PRECEDED BY SELCALL<br>TONES                            | QG52xi | WIA  | VK4TJ |
| 14021.0 | 3 | 2012 | 7  | 3  | 0950             | J3E/L |     |     |      | ASIAN                                                          | QG52xi | WIA  | VK4TJ |
|         |   |      |    |    |                  |       |     |     |      | SRI LANKAN FISHING TRAWLERS IN<br>SINHALA LANGUAGE ONLY – 2 OM |        |      |       |
| 14024   |   | 2012 | 07 | 29 | <0120-<br>0130>  | J3E/U |     | CLN | UNID |                                                                | MK82   | ARSI |       |
| 14027.0 | 3 | 2012 | 7  | 2  | 0845             | J1C   |     |     |      | DAILY                                                          | QG52xi | WIA  | VK4TJ |
|         |   |      |    |    |                  |       |     |     |      | SRI LANKAN FISHING TRAWLERS IN<br>SINHALA LANGUAGE ONLY – 2 OM |        |      |       |
| 14030   |   | 2012 | 07 | 09 | <0310-<br>0320>  | J3E/U |     | CLN | UNID |                                                                | MK82   | ARSI |       |
|         |   |      |    |    |                  |       |     |     |      | SRI LANKAN FISHING TRAWLERS IN<br>SINHALA LANGUAGE ONLY – 2 OM |        |      |       |
| 14031   |   | 2012 | 07 | 14 | <0205-<br>0215>  | J3E/U |     | CLN | UNID |                                                                | MK82   | ARSI |       |
|         |   |      |    |    |                  |       |     |     |      | SRI LANKAN FISHING TRAWLERS IN<br>SINHALA LANGUAGE ONLY – 2 OM |        |      |       |
| 14031   |   | 2012 | 07 | 29 | <0125-<br>0135>  | J3E/U |     | CLN | UNID |                                                                | MK82   | ARSI |       |
| 14033.1 | 3 | 2012 | 7  | 24 | 0810             | J3E/L |     |     |      | DAILY, ASIAN                                                   | QG52xi | WIA  | VK4TJ |
| 14034.0 | 5 | 2012 | 7  | 12 | 0730             | G7D   |     |     |      | SUBCARRIERS ON 300 HZ CENTRES                                  | QG52xi | WIA  | VK4TJ |
| 14040.0 | 3 | 2012 | 7  | 26 | 0930             | J3E/U |     |     |      | ASIAN                                                          | QG52xi | WIA  | VK4TJ |
|         |   |      |    |    |                  |       |     |     |      | SRI LANKAN FISHING TRAWLERS IN<br>SINHALA LANGUAGE ONLY – 2 OM |        |      |       |
| 14045   |   | 2012 | 07 | 19 | <1405-<br>1415>  | J3E/U |     | CLN | UNID |                                                                | MK82   | ARSI |       |
| 14048.0 | 3 | 2012 | 7  | 14 | 0400             | J3E/U |     |     |      | ALL DAY EVERY DAY. TAGALOG                                     | QG52xi | WIA  | VK4TJ |
| 14049.0 | 3 | 2012 | 7  | 1  | 0850             | J3E/U |     | PHL |      | ASIAN                                                          | QG52xi | WIA  | VK4TJ |
| 14050.0 | 1 | 2012 | 7  | 25 | 1025             | F1B   | 250 |     |      | AFTER G7D FINISHED                                             | QG52xi | WIA  | VK4TJ |

|         |    |      |    |    |               |           |       |  |       |        |                                                 |        |       |        |
|---------|----|------|----|----|---------------|-----------|-------|--|-------|--------|-------------------------------------------------|--------|-------|--------|
| 14050.0 | 3  | 2012 | 7  | 25 | 1010          |           | G7D   |  |       |        | 8 SUBCARRIERS ON 50 HZ INTERVALS, ID'S IN MORSE |        |       |        |
| 14050.0 | 5  | 2012 | 7  | 5  | 0705          |           | G7D   |  | OKQJP |        | PAIRS OF SUBCARRIERS ON 250 HZ INTERVALS (MANY) | QG52xi | WIA   | VK4TJ  |
| 14050.0 | 5  | 2012 | 7  | 18 | 0905          |           | G7D   |  |       |        | SUBCARRIERS ON 50 HZ INTERVALS (MANY)           | QG52xi | WIA   | VK4TJ  |
| 14050.0 | 3  | 2012 | 7  | 9  | 0505          |           | F1B   |  |       |        | SELCALL TONES                                   | QG52xi | WIA   | VK4TJ  |
| 14050.0 | 3  | 2012 | 7  | 9  | 0455          |           | J3E/L |  |       |        | SPANISH                                         | QG52xi | WIA   | VK4TJ  |
| 14050   |    | 2012 | 07 | 22 | <0533>        | 0533      | G7DF  |  | 330   | ? Unid | HF Man Pack 8-PSK S3                            | RF73MF | NZART | ZL1GWE |
| 14050.6 | 3  | 2012 | 7  | 8  | 1010          |           | J3E/L |  |       |        | ASIAN                                           | QG52xi | WIA   | VK4TJ  |
| 14055.0 | 8  | 2012 | 7  | 8  | 2045          |           | A3E   |  |       |        | SW BROADCAST                                    | QG52xi | WIA   | VK4TJ  |
| 14057.0 | 3  | 2012 | 7  | 8  | 2040          |           | J3E/U |  |       |        | ASIAN                                           | QG52xi | WIA   | VK4TJ  |
| 14059.0 | 5  | 2012 | 7  | 21 | 0850          |           | G7D   |  |       |        | 8 PAIRS OF SUBCARRIERS ON 200 HZ CENTRES        |        |       |        |
| 14060.0 | 3  | 2012 | 7  | 23 | 0935          |           | J3E/L |  |       |        | ASIAN                                           | QG52xi | WIA   | VK4TJ  |
| 14060.0 | 40 | 2012 | 7  | 17 | 0645          |           | P0N   |  |       |        | OTHR, BURSTS                                    | QG52xi | WIA   | VK4TJ  |
| 14060.0 | 3  | 2012 | 7  | 13 | 0710          |           | J3E/U |  |       |        | SPANISH OR PORTUGUESE (BEAMING EU LONG PATH)    | QG52xi | WIA   | VK4TJ  |
| 14061   |    | 2012 | 07 | 22 | <0528>        | 0528      | G7DF  |  | 330   | ? Unid | HF Man Pack 8-PSK S2                            | RF73MF | NZART | ZL1GWE |
| 14064.3 | 3  | 2012 | 7  | 2  | 0845          |           | J3E/U |  |       |        | ASIAN                                           | QG52xi | WIA   | VK4TJ  |
| 14065.7 | 3  | 2012 | 7  | 1  | <23:30--23:34 |           | J3E/U |  | 360   | INS    | 2 males                                         | OF84wx | WIA   | VK6XW  |
| 14066.0 | 3  | 2012 | 7  | 21 | 0350          |           | J3E/U |  |       |        | ASIAN                                           | QG52xi | WIA   | VK4TJ  |
| 14066.6 | 3  | 2012 | 7  | 25 | 1010          |           | J3E/U |  |       |        | ASIAN                                           | QG52xi | WIA   | VK4TJ  |
| 14067.0 | 3  | 2012 | 7  | 17 | 0650          |           | J3E/U |  |       |        | ASIAN                                           | QG52xi | WIA   | VK4TJ  |
| 14067   | 3  | 2012 | 7  | 12 | <00:40--01:09 |           | J3E/U |  | 315   | CLN    | Group of males                                  | OF84wx | WIA   | VK6XW  |
| 14068.0 | 5  | 2012 | 7  | 3  | 0950          |           | G7D   |  |       |        | PAIRS OF SUBCARRIERS ON 80 HZ INTERVALS (MANY)  |        |       |        |
| 14069.0 | 3  | 2012 | 7  | 17 | 0715          |           | J3E/U |  |       |        | ASIAN                                           | QG52xi | WIA   | VK4TJ  |
| 14087.0 | 5  | 2012 | 7  | 24 | 0810          |           | G7D   |  |       |        | PAIRS OF SUBCARRIERS ON 80 HZ INTERVALS (MANY)  | QG52xi | WIA   | VK4TJ  |
| 14090.0 | 30 | 2012 | 7  | 1  | 0850          |           | VXX   |  |       |        | DAILY, CODAR, SWEEPS 30 KHZ                     | QG52xi | WIA   | VK4TJ  |
| 14095   | 50 | 2012 | 07 | 26 | <0800>        | 0800-1000 | VXX   |  |       |        | CODAR Sea State. Noted freq. is centre freq.    | RF72LQ | NZART | ZL1BAD |
| 14100.0 | 40 | 2012 | 7  | 25 | 0725          |           | P0N   |  |       | ? Unid | OTHR, BURSTS                                    | QG52xi | WIA   | VK4TJ  |
| 14100.0 | 3  | 2012 | 7  | 23 | 0935          |           | J3E/L |  |       |        | ASIAN                                           | QG52xi | WIA   | VK4TJ  |
| 14100.0 | 3  | 2012 | 7  | 9  | 0855          |           | J3E/U |  |       |        | ASIAN                                           | QG52xi | WIA   | VK4TJ  |

|         |     |      |    |    |        |       |       |     |     |      |      |                                                       |        |       |        |
|---------|-----|------|----|----|--------|-------|-------|-----|-----|------|------|-------------------------------------------------------|--------|-------|--------|
| 14100.0 | 5   | 2012 | 7  | 1  | 0855   |       | G7D   |     |     |      |      | 20 SUBCARRIERS ON 250 HZ CENTRES                      | QG52xi | WIA   | VK4TJ  |
| 14100.2 | 3   | 2012 | 7  | 27 | 0950   |       | J3E/L |     |     |      |      | ASIAN, SINGING                                        | QG52xi | WIA   | VK4TJ  |
| 14102.1 | 3   | 2012 | 7  | 4  | 0715   |       | J3E/U |     |     |      |      | ASIAN                                                 | QG52xi | WIA   | VK4TJ  |
| 14103   | 10  | 2012 | 07 | 16 | <0505> | 0505  | P0N   | 330 | ?   | Unid |      | OTHR 85 pps S6                                        | RF73MF | NZART | ZL1GWE |
| 14106   |     | 2012 | 07 | 22 | <0615> | 0615  | G7D   | 100 | 330 | ?    | Unid | PSK-2A PACTOR S4                                      | RF73MF | NZART | ZL1GWE |
| 14108.0 |     | 2012 | 7  | 2  | 0835   |       | A1A   |     |     |      |      | DAILY, CIPHER GROUPS, SOME CYRILLIC CHARACTERS        |        |       |        |
| 14110.0 | 1   | 2012 | 7  | 5  | 0900   |       | F1B   | 250 |     |      |      |                                                       | QG52xi | WIA   | VK4TJ  |
|         |     |      |    |    |        |       |       |     |     |      |      | CODAR 3.5 PPS Continuous                              | QG52xi | WIA   | VK4TJ  |
| 14115   | 30  | 2012 | 07 | 08 | <1000> | 1000  | VXX   |     |     | ?    | Unid |                                                       | RF72LQ | NZART | ZL1BAD |
| 14117.9 | 3   | 2012 | 7  | 5  | 0900   |       | J3E/U |     |     |      |      | ASIAN                                                 | QG52xi | WIA   | VK4TJ  |
|         |     |      |    |    |        | 2045- |       |     |     |      |      | Multi-chnl                                            |        |       |        |
| 14118   | 3.3 | 2012 | 07 | 13 | <2045> | 2215  | M7B   |     |     | ?    | Unid |                                                       | RF72LQ | NZART | ZL1BAD |
| 14118   | 3.3 | 2012 | 07 | 14 | <1405> | 1405  | M7B   |     |     | ?    | Unid | Multi-chnl                                            | RF72LQ | NZART | ZL1BAD |
| 14123   |     | 2012 | 07 | 22 | <0528> | 0528  | G7DF  | 330 |     | ?    | Unid | HF Man Pack 8-PSK S2                                  | RF73MF | NZART | ZL1GWE |
| 14123.3 | 3   | 2012 | 7  | 5  | 0935   |       | J3E/U |     |     |      |      | ASIAN                                                 | QG52xi | WIA   | VK4TJ  |
| 14125.0 | 5   | 2012 | 7  | 19 | 0850   |       | G7D   |     |     |      |      | PAIRS OF SUBCARRIERS ON 300 HZ CENTRES                | QG52xi | WIA   | VK4TJ  |
| 14127.0 | 1   | 2012 | 7  | 5  | 0710   |       | G7D   |     |     |      |      | 6 SUBCARRIERS ON 200 HZ CENTRES                       | QG52xi | WIA   | VK4TJ  |
| 14127   |     | 2012 | 07 | 19 | <2305> | 2305  | M7D   | 100 | 330 | ?    | Unid | PSK-2A Commercial                                     | RF73MF | NZART | ZL1GWE |
| 14131   |     | 2012 | 07 | 22 | <0533> | 0533  | G7DF  | 330 |     | ?    | Unid | HF Man Pack 8-PSK S3                                  | RF73MF | NZART | ZL1GWE |
| 14132.9 | 3   | 2012 | 7  | 1  | 0900   |       | J3E/U |     |     |      |      | DAILY, ASIAN                                          | QG52xi | WIA   | VK4TJ  |
| 14135.8 | 3   | 2012 | 7  | 9  | 0900   |       | J3E/U |     |     |      |      | ASIAN                                                 | QG52xi | WIA   | VK4TJ  |
|         |     |      |    |    |        | 0607- |       |     |     |      |      | OTHR 70 pps S6                                        |        |       |        |
| 14137   | 10  | 2012 | 07 | 22 | <0607> | 0619  | P0N   | 330 |     | ?    | Unid |                                                       | RF73MF | NZART | ZL1GWE |
|         |     |      |    |    |        |       |       |     |     |      |      | OTHR 66pps S6 2 second bursts                         |        |       |        |
| 14138   | 11  | 2012 | 07 | 22 | <0528> | 0528  | P0N   | 330 |     | ?    | Unid |                                                       | RF73MF | NZART | ZL1GWE |
| 14140.0 | 20  | 2012 | 7  | 22 | 0530   |       | P0N   |     |     |      |      | OTHR, BURSTS                                          | QG52xi | WIA   | VK4TJ  |
| 14140.0 | 3   | 2012 | 7  | 3  | 0815   |       | J3E/L |     |     |      |      | ASIAN                                                 | QG52xi | WIA   | VK4TJ  |
| 14140.0 | 3   | 2012 | 7  | 2  | 0830   |       | J3E/U |     |     |      |      | ASIAN                                                 | QG52xi | WIA   | VK4TJ  |
| 14143.1 | 3   | 2012 | 7  | 9  | 0415   |       | J3E/L |     |     |      |      | SPANISH OR PORTUGUESE                                 | QG52xi | WIA   | VK4TJ  |
|         |     |      |    |    |        |       |       |     |     |      |      | Narrow band speech encrypted or digital (non amateur) |        |       |        |
| 14145   |     | 2012 | 07 | 22 | <0745> | 0754  | ???   | 330 |     | ?    | Unid |                                                       | RF73MF | NZART | ZL1GWE |
| 14145.5 | 3   | 2012 | 7  | 24 | 0810   |       | G7D   |     |     |      |      | VARIETY OF SUBCARRIERS AT DIFFERENT INTERVALS         |        |       |        |
|         |     |      |    |    |        |       |       |     |     |      |      |                                                       | QG52xi | WIA   | VK4TJ  |
|         |     |      |    |    |        |       |       |     |     |      |      | Encrypted speech or digitally compressed not J3E      |        |       |        |
| 14148   |     | 2012 | 07 | 22 | <0756> | 0756  | ???   | 330 |     | ?    | Unid |                                                       | RF73Mf | NZART | ZL1GWE |
| 14148.1 | 3   | 2012 | 7  | 4  | 0715   |       | J3E/U |     |     |      |      | DAILY, ASIAN                                          | QG52xi | WIA   | VK4TJ  |
| 14148.5 | 9   | 2012 | 07 | 16 | <0514> | 0514  | P0N   | 330 |     | ?    | Unid | OTHR 68 pps S3                                        | RF73MF | NZART | ZL1GWE |

|         |    |      |    |    |        |           |       |     |        |                                                                   |        |       |        |
|---------|----|------|----|----|--------|-----------|-------|-----|--------|-------------------------------------------------------------------|--------|-------|--------|
| 14149.0 | 5  | 2012 | 7  | 24 | 0720   | G7D       |       |     |        | PAIRS OF SUBCARRIERS ON 300 HZ CENTRES                            | QG52xi | WIA   | VK4TJ  |
| 14150.0 | 20 | 2012 | 7  | 19 | 1055   | P0N       |       |     |        | OTHR, BURSTS                                                      | QG52xi | WIA   | VK4TJ  |
| 14157.1 | 3  | 2012 | 7  | 2  | 0830   | J3E/U     |       |     |        | DAILY, ASIAN                                                      | QG52xi | WIA   | VK4TJ  |
| 14160.0 | 5  | 2012 | 7  | 5  | 0900   | G7D       |       |     |        | MANY SUBCARRIERS ON 50 HZ INTERVALS                               | QG52xi | WIA   | VK4TJ  |
| 14161.9 | 3  | 2012 | 7  | 2  | 0855   | J3E/U     |       |     |        | ASIAN                                                             | QG52xi | WIA   | VK4TJ  |
|         |    |      |    |    |        |           |       |     |        | Abusive AR singing and playing Music USA or Canada                |        |       |        |
| 14168   |    | 2012 | 07 | 15 | <0540> | 0540      | J3E/U |     | ? Unid |                                                                   | RE68XL | NZART | ZL2TZE |
| 14170.0 | 3  | 2012 | 7  | 6  | 1005   | J3E/U     |       |     |        | ASIAN                                                             | QG52xi | WIA   | VK4TJ  |
| 14180.0 | 20 | 2012 | 7  | 19 | 0815   | P0N       |       |     |        | OTHR, BURSTS                                                      | QG52xi | WIA   | VK4TJ  |
|         |    |      |    |    |        |           |       |     |        | OTHR 66pps S5 2 second bursts                                     |        |       |        |
| 14183   | 22 | 2012 | 07 | 19 | <0738> | 0738      | P0N   | 330 | ? Unid |                                                                   | RF73MF | NZART | ZL1GWE |
| 14183.5 | 45 | 2012 | 07 | 07 | <0757> | 0757      | P0N   | 330 | ? Unid | OTHR 83 pps S9 + 10 dB                                            | RF73MF | NZART | ZL1GWE |
| 14186   | 20 | 2012 | 07 | 07 | <0757> | 0757      | P0N   | 330 | ? Unid | OTHR 84 pps S9 + 10 dB                                            | RF73MF | NZART | ZL1GWE |
| 14186.5 | 13 | 2012 | 07 | 19 | <2314> | 2314      | P0N   | 330 | ? Unid | OTHR 46 pps S8                                                    | RF73MF | NZART | ZL1GWE |
| 14192.0 | 1  | 2012 | 7  | 22 | 2240   | G1D       |       |     |        | CONTINUOUS                                                        | QG52xi | WIA   | VK4TJ  |
|         |    |      |    |    |        |           |       |     |        | Non-printable plus idle sigs                                      |        |       |        |
| 14192   |    | 2012 | 07 | DY | <1915> | 1915-2105 | F1B   | 200 | ? Unid |                                                                   | RF72LQ | NZART | ZL1BAD |
| 14192.5 |    | 2012 | 07 | 22 | <0010> | 0010      | G7DF  | 330 | ? Unid | HF Man Pack 8-PSK S2                                              | RF73MF | NZART | ZL1GWE |
| 14200.0 | 3  | 2012 | 7  | 25 | 0910   | J3E/L     |       |     |        | ASIAN                                                             | QG52xi | WIA   | VK4TJ  |
| 14208.5 | 3  | 2012 | 7  | 16 | 0810   | J3E/U     |       |     |        | DAILY, ASIAN                                                      | QG52xi | WIA   | VK4TJ  |
|         |    |      |    |    |        |           |       |     |        | OTHR 2 Sec burst every 14 secs. 42 PPS                            |        |       |        |
| 14215   | 30 | 2012 | 07 | 02 | <0001> | 0001      | P0N   |     | ? Unid |                                                                   | RF72LQ | NZART | ZL1BAD |
| 14216   |    | 2012 | 07 | 22 | <0528> | 0528      | G7DF  | 330 | ? Unid | HF Man Pack 8-PSK S1                                              | RF73MF | NZART | ZL1GWE |
|         |    |      |    |    |        |           |       |     |        | OTHR 10 Secs burst every 30 secs. 42 PPS. 2 stns - 1 weak 1strong |        |       |        |
| 14220   | 30 | 2012 | 07 | 05 | <2000> | 2000-2230 | P0N   |     | ? Unid |                                                                   | RF72LQ | NZART | ZL1BAD |
|         |    |      |    |    |        |           |       |     |        | OTHR 10 Secs burst every 30 secs. 42 PPS.                         |        |       |        |
| 14220   | 30 | 2012 | 07 | 28 | <0115> | 0115-0240 | P0N   |     | ? Unid |                                                                   | RF72LQ | NZART | ZL1BAD |
| 14221.0 | 1  | 2012 | 7  | 22 | 2245   | F1B       |       | 200 |        | CONTINUOUS                                                        | QG52xi | WIA   | VK4TJ  |
| 14221.5 | 13 | 2012 | 07 | 19 | <2317> | 2317      | P0N   | 330 | ? Unid | OTHR 68 pps S7                                                    | RF73MF | NZART | ZL1GWE |
| 14222   | 10 | 2012 | 07 | 15 | <2330> | 2330      | P0N   | 330 | ? Unid | OTHR 63 pps S4                                                    | RF73MF | NZART | ZL1GWE |
| 14224   | 10 | 2012 | 07 | 01 | <0648> | 0648      | P0N   | 330 | ? Unid | OTHR S8 66pps                                                     | RF73MF | NZART | ZL1GWE |
| 14225.0 | 20 | 2012 | 7  | 19 | 0815   | P0N       |       |     |        | OTHR, BURSTS                                                      | QG52xi | WIA   | VK4TJ  |
| 14225.0 | 5  | 2012 | 7  | 27 | 1010   | G7D       |       |     |        | PAIRS OF SUBCARRIERS ON 300 HZ CENTRES                            | QG52xi | WIA   | VK4TJ  |
|         |    |      |    |    |        |           |       |     |        | OTHR 66pps S6 2 second bursts                                     |        |       |        |
| 14225.5 | 11 | 2012 | 07 | 19 | <0812> | 0812      | P0N   | 330 | ? Unid |                                                                   | RF73MF | NZART | ZL1GWE |
| 14225.6 | 3  | 2012 | 7  | 10 | 1005   | J3E/U     |       |     |        | ASIAN                                                             | QG52xi | WIA   | VK4TJ  |
| 14228.0 | 3  | 2012 | 7  | 5  | 0910   | J3E/U     |       |     |        | ASIAN                                                             | QG52xi | WIA   | VK4TJ  |
| 14230.0 | 20 | 2012 | 7  | 5  | 0910   | P0N       |       |     |        | OTHR, BURSTS                                                      | QG52xi | WIA   | VK4TJ  |
|         |    |      |    |    |        |           |       |     |        | OTHR 3.75 sec. burst every 30 secs. 42 PPS                        |        |       |        |
| 14230   | 30 | 2012 | 07 | 23 | <0630> | 0630      | P0N   |     | ? Unid |                                                                   | RF72LQ | NZART | ZL1BAD |

|          |      |      |    |    |        |           |       |     |     |      |                                             |        |       |         |
|----------|------|------|----|----|--------|-----------|-------|-----|-----|------|---------------------------------------------|--------|-------|---------|
| 14232.4  | 3    | 2012 | 7  | 1  | 0905   |           | J3E/U |     |     |      | DAILY, ASIAN                                | QG52xi | WIA   | VK4TJ   |
| 14233.0  | 3    | 2012 | 7  | 1  | 0850   |           | J3E/L |     |     |      | ASIAN, FISHBOATS, ENGINE NOISE              |        |       |         |
|          |      |      |    |    |        |           |       |     |     |      |                                             | QG52xi | WIA   | VK4TJ   |
|          |      |      |    |    |        |           |       |     |     |      | OTHR 24 pps 15 second burst S4              |        |       |         |
| 14234.5  | 3    | 2012 | 07 | 28 | <1948> | 1948      | P0N   | 330 | ?   | Unid |                                             | Rf73MF | NZART | ZL1GWE  |
|          |      |      |    |    |        | 0631-0637 |       |     |     |      | OTHR short bursts S7                        |        |       |         |
| 14235.5  | 11   | 2012 | 07 | 04 | <0631> |           | P0N   |     |     | ?    | Unid                                        | RF73IJ | NZART | ZL1TPH  |
| 14245.0  | 20   | 2012 | 7  | 19 | 1055   |           | P0N   |     |     |      |                                             | QG52xi | WIA   | VK4TJ   |
| 14250.0  | 8    | 2012 | 7  | 22 | 2230   |           | A3E   |     | PHL |      | OTHR, BURSTS                                | QG52xi | WIA   | VK4TJ   |
| 14250.0  | 3    | 2012 | 7  | 2  | 0830   |           | J3E/L |     |     |      | VOA IMD                                     | QG52xi | WIA   | VK4TJ   |
| 14255.0  | 5    | 2012 | 7  | 5  | 0935   |           | G7D   |     |     |      | DAILY, ASIAN                                | QG52xi | WIA   | VK4TJ   |
|          |      |      |    |    |        |           |       |     |     |      | ~10 SUBCARRIERS ON 100 HZ INTERVALS         |        |       |         |
|          |      |      |    |    |        |           |       |     |     |      |                                             | QG52xi | WIA   | VK4TJ   |
|          |      |      |    |    |        |           |       |     |     |      | OTHR short burst S5                         |        |       |         |
| 14259.1  | 11   | 2012 | 07 | 17 | <0358> | 0358-0434 | P0N   |     |     | ?    | Unid                                        | RF73IJ | NZART | ZL1TPH  |
| 14260.0  | 20   | 2012 | 7  | 19 | 0805   |           | P0N   |     |     |      |                                             | QG52xi | WIA   | VK4TJ   |
|          |      |      |    |    |        |           |       |     |     |      | OTHR, BURSTS                                |        |       |         |
|          |      |      |    |    |        |           |       |     |     |      | OTHR short bursts S7                        |        |       |         |
| 14264    | 8    | 2012 | 07 | 04 | <0627> | 0627-0630 | P0N   |     |     | ?    | Unid                                        | RF73IJ | NZART | ZL1TPH  |
|          |      |      |    |    |        |           |       |     |     |      | OTHR 83 pps S7 Search light pattern         |        |       |         |
| 14265    | 11   | 2012 | 07 | 19 | <0720> | 0720      | P0N   | 330 | ?   | Unid |                                             | RF73MF | NZART | ZL1GWE  |
|          |      |      |    |    |        | 0434-0453 |       |     |     |      | OTHR short bursts S3                        |        |       |         |
| 14265.5  | 11   | 2012 | 07 | 03 | <0434> |           | P0N   |     |     | ?    | Unid                                        | RF73IJ | NZART | ZL1TPH  |
|          |      |      |    |    |        |           |       |     |     |      | OTHR short burst S5                         |        |       |         |
| 14265.5  | 11   | 2012 | 07 | 20 | <2200> | 2200-2210 | P0N   |     |     | ?    | Unid                                        | RF73IJ | NZART | ZL1TPH  |
| 14270.0  | 20   | 2012 | 7  | 5  | 1015   |           | P0N   |     |     |      |                                             | QG52xi | WIA   | VK4TJ   |
|          |      |      |    |    |        |           |       |     |     |      | OTHR, BURSTS                                |        |       |         |
|          |      |      |    |    |        |           |       |     |     |      | OTHR 83 pps S7 Search light pattern         |        |       |         |
| 14273    | 32   | 2012 | 07 | 19 | <0720> | 0720      | P0N   | 330 | ?   | Unid |                                             | RF73MF | NZART | ZL1GWE  |
|          |      |      |    |    |        |           |       |     |     |      | OTHR 83 pps S7 Search light pattern         |        |       |         |
| 14274.5  | 11   | 2012 | 07 | 19 | <0720> | 0720      | P0N   | 330 | ?   | Unid |                                             | RF73MF | NZART | ZL1GWE  |
| 14283.5  | 11   | 2012 | 07 | 19 | <2319> | 2319      | P0N   | 330 | ?   | Unid | OTHR S7 68 pps                              | RF73MF | NZART | ZL1GWE  |
| 14293    | 10   | 2012 | 07 | 16 | <0520> | 0520      | P0N   | 330 | ?   | Unid | OTHR 80 PPS S4                              | RF73MF | NZART | ZL1GWE  |
| 14296.45 | 14.9 | 2012 | 07 | 18 | <2317> | 2317      | P0N   | 330 | ?   | Unid | OTHR 66pps S5                               | RF73MF | NZART | ZL1GWE  |
|          |      |      |    |    |        |           |       |     |     |      | OTHR 46 pps S8 6 second bursts              |        |       |         |
| 14298    | 12   | 2012 | 07 | 19 | <2023> | 2023      | P0N   |     |     | ?    | Unid                                        | RF73MF | NZART | ZL1GWE  |
|          |      |      |    |    |        |           |       |     |     |      | OTHR 66pps and 52 pps Five second bursts S5 |        |       |         |
| 14299.95 | 9.9  | 2012 | 07 | 18 | <2317> | 2317      | P0N   | 330 | ?   | Unid |                                             | RF73MF | NZART | ZL1GWE  |
| 14300.0  | 20   | 2012 | 7  | 19 | 0855   |           | P0N   |     |     |      |                                             | QG52xi | WIA   | VK4TJ   |
|          |      |      |    |    |        |           |       |     |     |      | OTHR, BURSTS                                |        |       |         |
|          |      |      |    |    |        |           |       |     |     |      | OTHR via VK3YT WebSDR S8                    |        |       |         |
| 14300    | 10   | 2012 | 07 | 20 | <2308> | 2308      | P0N   |     |     | ?    | Unid                                        | WebSDR | NZART | ExVR2BG |
| 14300.5  | 17   | 2012 | 07 | 19 | <2321> | 2321      | P0N   | 330 | ?   | Unid | OTHR 44 pps S7                              | RF73MF | NZART | ZL1GWE  |
| 14302.5  | 11   | 2012 | 07 | 19 | <0816> | 0816      | P0N   | 330 | ?   | Unid | OTHR 68 pps S9 + 10 dB                      | RF73MF | NZART | ZL1GWE  |
| 14303    |      | 2012 | 07 | 22 | <0538> | 0538      | G7DF  | 330 | ?   | Unid | HF Man Pack 8-PSK S1                        | RF73MF | NZART | ZL1GWE  |
| 14310.0  | 3    | 2012 | 7  | 26 | 0920   |           | J3E/L |     |     |      | ASIAN                                       | QG52xi | WIA   | VK4TJ   |
| 14310.1  | 3    | 2012 | 7  | 24 | 0835   |           | J3E/U |     |     |      | IMMEDIATELY AFTER G7D BELOW ON 14311        |        |       |         |
|          |      |      |    |    |        |           |       |     |     |      |                                             | QG52xi | WIA   | VK4TJ   |
| 14311.0  | 5    | 2012 | 7  | 24 | 0845   |           | G7D   |     |     |      | MANY SUBCARRIERS ON 50 HZ INTERVALS         |        |       |         |
|          |      |      |    |    |        |           |       |     |     |      |                                             | QG52xi | WIA   | VK4TJ   |
| 14313    |      | 2012 | 07 | 03 | <0210> | 0210      | P0N   |     |     | ?    | Unid                                        | RE68XL | NZART | ZL2TZE  |
|          |      |      |    |    |        |           |       |     |     |      | OTHR S5                                     |        |       |         |

|         |    |      |    |    |             |           |       |     |     |     |     |      |                                                             |                      |        |         |        |
|---------|----|------|----|----|-------------|-----------|-------|-----|-----|-----|-----|------|-------------------------------------------------------------|----------------------|--------|---------|--------|
| 14315.4 | 3  | 2012 | 7  | 9  | 0905        |           | J3E/U |     |     |     |     |      |                                                             | ASIAN                | QG52xi | WIA     | VK4TJ  |
| 14319.4 | 3  | 2012 | 7  | 13 | 0720        |           | J3E/U |     |     |     |     |      |                                                             | ASIAN                | QG52xi | WIA     | VK4TJ  |
| 14324   |    | 2012 | 07 | 22 | <0748>      | 0748      | G7DF  |     | 330 |     | ?   | Unid | HF Man Pack 8-PSK S2                                        | RF73MF               | NZART  | Z:L1GWE |        |
| 14330.0 | 3  | 2012 | 7  | 2  | 0830        |           | J3E/L |     |     |     |     |      | ASIAN                                                       | QG52xi               | WIA    | VK4TJ   |        |
| 14330.6 | 3  | 2012 | 7  | 19 | 0855        |           | J3E/L |     |     |     |     |      | ASIAN, FAMILY NET                                           | QG52xi               | WIA    | VK4TJ   |        |
| 14332   |    | 2012 | 07 | 22 | <009>       | 0009      | G7DF  |     | 330 |     | ?   | Unid | HF Man Pack 6-PSK S1                                        | RF73MF               | NZART  | ZL1GWE  |        |
| 14333.0 | 3  | 2012 | 7  | 7  | 0925        |           | J3E/U |     |     |     |     |      | ASIAN                                                       | QG52xi               | WIA    | VK4TJ   |        |
| 14335.0 | 1  | 2012 | 7  | 22 | 2245        |           | F1B   | 850 |     |     |     |      | CONTINUOUS                                                  | QG52xi               | WIA    | VK4TJ   |        |
| 14336.0 | 5  | 2012 | 7  | 1  | 0855        |           | G7D   |     |     |     |     |      | 20 SUBCARRIERS ON 250 HZ CENTRES                            |                      |        |         |        |
|         |    |      |    |    |             |           |       |     |     |     |     |      |                                                             | QG52xi               | WIA    | VK4TJ   |        |
| 14338.0 | 1  | 2012 | 7  | 5  | 0940        |           | F1B   | 850 |     |     |     |      |                                                             | QG52xi               | WIA    | VK4TJ   |        |
| 14339.0 | 3  | 2012 | 7  | 24 | 0820        |           | J3E/U |     |     |     |     |      | ASIAN                                                       | QG52xi               | WIA    | VK4TJ   |        |
|         |    |      |    |    |             |           |       |     |     |     |     |      | Multi-chnl Modem with Guard channel S5 or OTHR 39 pps       |                      |        |         |        |
| 14339.5 | 3  | 2012 | 07 | 19 | <0703>      | 0703      | G7D   |     | 330 |     | ?   | Unid |                                                             | RF73MF               | NZART  | ZL1GWE  |        |
| 14340.0 | 3  | 2012 | 7  | 19 | 0750        |           | G7D   |     |     |     |     |      | MANY SUBCARRIERS ON 50 HZ INTERVALS                         |                      |        |         |        |
|         |    |      |    |    |             |           |       |     |     |     |     |      |                                                             | QG52xi               | WIA    | VK4TJ   |        |
| 14340.0 | 40 | 2012 | 7  | 15 | 0750        |           | P0N   |     |     |     |     |      | OTHR, BURSTS                                                | QG52xi               | WIA    | VK4TJ   |        |
| 14340.0 | 5  | 2012 | 7  | 2  | 0830        |           | G7D   |     |     |     |     |      | 8 SUBCARRIERS ON 250 HZ CENTRES                             |                      |        |         |        |
|         |    |      |    |    |             | 0615-0618 |       |     |     |     |     |      |                                                             | QG52xi               | WIA    | VK4TJ   |        |
| 14340   | 5  | 2012 | 07 | 04 | <0615>      |           | P0N   |     |     |     |     | ?    | Unid                                                        | OTHR short bursts S7 | RF73IJ | NZART   | ZL1TPH |
|         |    |      |    |    |             |           |       |     |     |     |     |      | OFDM-12 tones S5 with carrier on 14341                      |                      |        |         |        |
| 14340   |    | 2012 | 07 | 21 | <2009>      | 2009      | G7DF  | 120 | 330 |     | ?   | Unid |                                                             | RF73MF               | NZART  | ZL1GWE  |        |
|         |    |      |    |    |             |           |       |     |     |     |     |      | RTTY S6 Non Amateur suspected Russian went QRT at 0407z     |                      |        |         |        |
| 14340   |    | 2012 | 07 | 22 | <0406>      | 0406      | F1B   | 200 | 100 | 330 |     | ?    | Unid                                                        |                      | RF73MF | NZART   | ZL1GWE |
| 14345.6 | 3  | 2012 | 7  | 2  | 0900        |           | J3E/U |     |     |     |     |      | ASIAN                                                       | QG52xi               | WIA    | VK4TJ   |        |
| 14349.0 | 5  | 2012 | 7  | 4  | 0720        |           | G7D   |     |     |     |     |      | 6 SUBCARRIERS ON APPROX 300 HZ INTERVALS                    |                      |        |         |        |
|         |    |      |    |    |             |           |       |     |     |     |     |      |                                                             | QG52xi               | WIA    | VK4TJ   |        |
| 14349.9 | 3  | 2012 | 7  | 9  | 0905        |           | J3E/U |     |     |     |     |      | ASIAN                                                       | QG52xi               | WIA    | VK4TJ   |        |
| 18070.0 | 20 | 2012 | 7  | 4  | 0715        |           | P0N   |     |     |     |     |      | OTHR, CONTINUOUS                                            | QG52xi               | WIA    | VK4TJ   |        |
|         |    |      |    |    |             |           |       |     |     |     |     |      | SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM |                      |        |         |        |
|         |    |      |    |    | <1200-1210> |           |       |     |     |     |     |      |                                                             |                      |        |         |        |
| 21021   |    | 2012 | 07 | 09 | 0900        |           | J3E/U |     |     |     | CLN | UNID |                                                             | MK82                 | ARSI   |         |        |
| 21032.0 | 5  | 2012 | 7  | 19 |             |           | G7D   |     |     |     |     |      | PAIRS OF SUBCARRIERS ON 80 HZ INTERVALS (MANY)              |                      |        |         |        |
|         |    |      |    |    |             |           |       |     |     |     |     |      |                                                             | QG52xi               | WIA    | VK4TJ   |        |
| 21040.0 | 40 | 2012 | 7  | 2  | 0825        |           | P0N   |     |     |     |     |      | OTHR, CONTINUOUS                                            | QG52xi               | WIA    | VK4TJ   |        |
| 21057.0 |    | 2012 | 7  | 12 | 0715        |           | A1A   |     |     |     |     |      | MIXED NUMBER/LETTER CIPHER                                  |                      |        |         |        |
|         |    |      |    |    |             |           |       |     |     |     |     |      |                                                             | QG52xi               | WIA    | VK4TJ   |        |
| 21100.0 | 40 | 2012 | 7  | 9  | 0350        |           | P0N   |     |     |     |     |      | OTHR, SHORT BURSTS                                          | QG52xi               | WIA    | VK4TJ   |        |
| 21112.0 | 3  | 2012 | 7  | 9  | 0355        |           | J3E/U |     |     |     |     |      | ASIAN                                                       | QG52xi               | WIA    | VK4TJ   |        |

|         |    |      |    |    |        |           |      |     |   |      |                                                               |        |       |         |
|---------|----|------|----|----|--------|-----------|------|-----|---|------|---------------------------------------------------------------|--------|-------|---------|
| 21117   | 11 | 2012 | 07 | 21 | <0603> | 0603      | P0N  | 330 | ? | Unid | OTHR 66pps S5                                                 | RF73MF | NZART | ZL1GWE  |
|         |    |      |    |    |        | 0126-     |      |     |   |      | OTHR short bursts then went continuous                        |        |       |         |
| 21190.5 | 12 | 2012 | 07 | 21 | <0126> | 0127      | P0N  |     | ? | Unid | S4                                                            | RF73IJ | NZART | ZL1TPH  |
| 21204.0 | 3  | 2012 | 7  | 25 | 1025   |           | G7D  |     |   |      | MANY SUBCARRIERS ON 50 HZ INTERVALS                           | QG52xi | WIA   | VK4TJ   |
| 21210.0 | 40 | 2012 | 7  | 14 | 0510   |           | P0N  |     |   |      | OTHR, CONTINUOUS                                              | QG52xi | WIA   | VK4TJ   |
|         |    |      |    |    |        |           |      |     |   |      | OTHR short burst S9 (weak sidebands heard other side + 2 kHz) |        |       |         |
| 21212   | 11 | 2012 | 07 | 23 | <0420> | 0420-0440 | P0N  |     | ? | Unid |                                                               | RF73IJ | NZART | ZL1TPH  |
| 21217.5 |    | 2012 | 07 | 01 | <0355> | 0355      | G7DF | 330 | ? | Unid | HF Man Pack S3                                                | RF73MF | NZART | ZL1GWE  |
|         |    |      |    |    |        |           |      |     |   |      | OTHR short bursts S3 (sometimes two short bursts)             |        |       |         |
| 21225.5 | 10 | 2012 | 07 | 08 | <0120> | 0120-0125 | P0N  |     | ? | Unid |                                                               | RF73IJ | NZART | ZL1TPH  |
|         |    |      |    |    |        |           |      |     |   |      | OTHR short bursts S3 (sometimes two short bursts)             |        |       |         |
| 21229   | 11 | 2012 | 07 | 09 | <0435> | 0435-0505 | P0N  |     | ? | Unid |                                                               | RF73IJ | NZART | ZL1TPH  |
|         |    |      |    |    |        | 0455-     |      |     |   |      | OTHR short bursts S8                                          |        |       |         |
| 21231   | 18 | 2012 | 07 | 12 | <0455> | 0515      | P0N  |     | ? | Unid |                                                               | RF73IJ | NZART | ZL1TPH  |
| 21238   |    | 2012 | 07 | 07 | <0251> | 0251      | VXX  | 330 | ? | Unid | CODAR S4                                                      | RF73MF | NZART | ZL1GWE  |
| 21245   | 13 | 2012 | 07 | 01 | <0350> | 0350      | VXX  | 330 | > | Unid | CODAR 6pps S4                                                 | RF73MF | NZART | ZL1GWE  |
| 21248   |    | 2012 | 07 | 01 | <0350> | 0350      | VXX  | 330 | ? | Unid | CODAR 6 pps S4                                                | Rf73MF | NZART | ZL1GWE  |
| 21249.5 |    | 2012 | 07 | 01 | <0344> | 0344      | VXX  | 330 | ? | Unid | CODAR 1.2 pps S3                                              | RF73MF | NZART | ZL1GWE  |
| 21266   | 21 | 2012 | 07 | 07 | <0035> | 0035      | P0N  | 330 | ? | Unid | OTHR S2                                                       | RF73MF | NZART | ZL1GWE  |
| 21267.5 | 25 | 2012 | 07 | 07 | <0044> | 0044      | VXX  | 330 | ? | Unid | CODAR 1.4 pps S2                                              | RF73MF | NZART | ZL1GWE  |
| 21278   | 39 | 2012 | 07 | 01 | <0344> | 0344      | VXX  | 330 | ? | Unid | CODAR S3 1.2 pps                                              | RF73MF | NZART | ZL1GWE  |
| 21280.0 | 40 | 2012 | 7  | 7  | 0135   |           | P0N  |     |   |      | OTHR, SHORT BURSTS                                            | QG52xi | WIA   | VK4TJ   |
| 21285.5 |    | 2012 | 07 | 01 | <0355> | 0355      | G7DF | 330 | ? | Unid | HF Man Pack S3                                                | RF73MF | NZART | ZL1GWE  |
|         |    |      |    |    |        | 0250-0255 | P0N  |     | ? | Unid | OTHR short bursts S3                                          |        |       |         |
| 21287   | 11 | 2012 | 07 | 07 | <0250> | 0255      | P0N  |     | ? | Unid | CODAR WebSDR via VKJ3YT                                       | RF73IJ | NZART | ZL1TPH  |
| 21287.5 | 21 | 2012 | 07 | 20 | <0444> | 0444      | VXX  |     | ? | Unid |                                                               | WebSDR | NZART | exVR2BG |
| 21290.0 | 40 | 2012 | 7  | 24 | 0845   |           | P0N  |     |   |      | OTHR, SHORT BURSTS                                            | QG52xi | WIA   | VK4TJ   |
|         |    |      |    |    |        |           |      |     |   |      | OTHR 51 pps S4 JORN like                                      |        |       |         |
| 21291.5 | 9  | 2012 | 07 | 07 | <0222> | 0222      | P0N  | 330 | ? | Unid |                                                               | RF73MF | NZART | ZL1GWE  |
| 21293   | 7  | 2012 | 07 | 07 | <0033> | 0033      | P0N  | 330 | ? | Unid | OTHR 49 pps S1 JORN?                                          | TF73MF | NZART | ZL1GWE  |
|         |    |      |    |    |        | 0104-0105 | P0N  |     | ? | Unid | OTHR slow pulse with signature tones                          |        |       |         |
| 21293.5 | 10 | 2012 | 07 | 21 | <0104> | 0256-0320 | P0N  |     | ? | Unid | S3                                                            | RF73IJ | NZART | ZL1TPH  |
| 21293.5 | 11 | 2012 | 07 | 07 | <0256> | 0320      | P0N  |     | ? | Unid | OTHR short bursts S7                                          | RF73IJ | NZART | ZL1TPH  |
|         |    |      |    |    |        | 0344-0510 | P0N  |     | ? | Unid | OTHR short bursts S8 (varied pulse rates)                     |        |       |         |
| 21294   | 11 | 2012 | 07 | 18 | <0344> | 0510      | P0N  |     | ? | Unid |                                                               | RF73IJ | NZART | ZL1TPH  |
|         |    |      |    |    |        |           |      |     |   |      | OTHR short bursts S3 (sometimes two short bursts )            |        |       |         |
| 21294.5 | 12 | 2012 | 07 | 08 | <0255> | 0255-0305 | P0N  |     | ? | Unid |                                                               | RF73IJ | NZART | ZL1TPH  |



|         |    |      |    |    |        |                        |       |     |        |                                                                          |        |       |         |
|---------|----|------|----|----|--------|------------------------|-------|-----|--------|--------------------------------------------------------------------------|--------|-------|---------|
|         |    |      |    |    |        |                        |       |     |        | OTHR S7 varying rates 39 pps, 51 pps<br>34 pps JORN like beep            |        |       |         |
| 21294.5 | 9  | 2012 | 07 | 22 | <0558> | 0558<br>0405-          | P0N   | 330 | ? Unid |                                                                          | RF73MF | NZART | ZL1GWE  |
| 21294.5 | 11 | 2012 | 07 | 22 | <0405> | 0425                   | P0N   |     | ? Unid | OTHR short burst S5                                                      | RF73IJ | NZART | ZL1TPH  |
|         |    |      |    |    |        |                        |       |     |        | OTHR short burst S2 (not strong at all)<br>(believe faded out with prop) |        |       |         |
| 21295   | 11 | 2012 | 07 | 22 | <0550> | 0550-<br>0608          | P0N   |     | ? Unid |                                                                          | RF73IJ | NZART | ZL1TPH  |
| 21295   | 10 | 2012 | 07 | 07 | <0252> | 0252                   | P0N   | 330 | ? Unid | OTHR 45 pps S4                                                           | RF73MF | NZART | ZL1GWE  |
|         |    |      |    |    |        |                        |       |     |        | OTHR 51 pps with a JORN type blip at<br>the beginning S5                 |        |       |         |
| 21299   | 10 | 2012 | 07 | 21 | <0321> | 0321                   | P0N   | 330 | ? Unid |                                                                          | RF73MF | NZART | ZL1GWE  |
|         |    |      |    |    |        |                        |       |     |        | OTHR shorts burst, stated off with<br>signature tones S8                 |        |       |         |
| 21301.5 | 10 | 2012 | 07 | 20 | <0599> | 0599-<br>0622<br>0407- | P0N   |     | ? Unid |                                                                          | RF73IJ | NZART | ZL1TPH  |
| 21301.5 | 11 | 2012 | 07 | 10 | <0407> | 0450                   | P0N   |     | ? Unid | OTHR short bursts S7                                                     | RF73IJ | NZART | ZL1TPH  |
|         |    |      |    |    |        |                        |       |     |        | OTHR short bursts S8 (faded around<br>0620 with prop)                    |        |       |         |
| 21303   | 11 | 2012 | 07 | 11 | <0452> | 0452-<br>0620<br>0449- | P0N   |     | ? Unid |                                                                          | RF73IJ | NZART | ZL1TPH  |
| 21303   | 14 | 2012 | 07 | 07 | <0449> | 0645                   | P0N   |     | ? Unid | OTHR short bursts S3                                                     | RF73IJ | NZART | ZL1TPH  |
| 21305.5 | 11 | 2012 | 07 | 07 | <0347> | 0347-<br>0440          | P0N   |     | ? Unid | OTHR short bursts S9                                                     | RF73IJ | NZART | ZL1TPH  |
|         |    |      |    |    |        |                        |       |     |        | OTHR short bursts S3 (faded out 0645<br>with prop)                       |        |       |         |
| 21305.5 | 11 | 2012 | 07 | 09 | <0630> | 0630-<br>0750          | P0N   |     | ? Unid |                                                                          | RF73IJ | NZART | ZL1TPH  |
|         |    |      |    |    |        |                        |       |     |        | OTHR via WebSDR VK3YT                                                    |        |       |         |
| 21315   | 11 | 2012 | 07 | 20 | <2213> | 2213                   | P0N   |     | ? Unid |                                                                          | WebSDR | NZART | ExVR2BG |
|         |    |      |    |    |        |                        |       |     |        | OTHR short burst S9 (prop diminished to<br>Q5 around 0545)               |        |       |         |
| 21315   | 11 | 2012 | 07 | 24 | <0354> | 0354-<br>0615          | P0N   |     | ? Unid |                                                                          | RF73IJ | NZART | ZL1TPH  |
| 21317   | 10 | 2012 | 07 | 07 | <0608> | 0608                   | P0N   | 330 | ? Unid | OTHR 66 pps S7                                                           | RF73MF | NZART | ZL1GWE  |
| 21323   |    | 2012 | 07 | 29 | <0436> | 0436                   | G7DF  | 330 | ? Unid | HF Man Pack 8-PSK S1                                                     | RF73MF | NZART | ZL1GWE  |
|         |    |      |    |    |        |                        |       |     |        | OTHR continuous S3                                                       |        |       |         |
| 21334.5 | 19 | 2012 | 07 | 06 | <0530> | 0530-<br>0543          | P0N   |     | ? Unid |                                                                          | RF73IJ | NZART | ZL1TPH  |
| 21339   |    | 2012 | 07 | 01 | <0358> | 0358                   | G7DF  | 330 | ? Unid | HF Man Pack S3                                                           | RF73MF | NZART | ZL1GWE  |
| 21344   |    | 2012 | 07 | 01 | <0356> | 0356                   | G7DF  | 330 | ? Unid | HF Man Pack S2                                                           | RF73MF | NZART | ZL1GWE  |
| 21364.5 |    | 2012 | 07 | 07 | <0443> | 0443                   | G7DF  | 330 | ? Unid | HF Man Pack S1                                                           | RF73MF | NZART | ZL1GWE  |
|         |    |      |    |    |        |                        |       |     |        | OTHR 66 pps S7 2 second bursts                                           |        |       |         |
| 21407   | 11 | 2012 | 07 | 07 | <0256> | 0256                   | P0N   | 330 | ? Unid |                                                                          | RF73MF | NZART | ZL1GWE  |
| 21415   |    | 2012 | 07 | 07 | <0041> | 0041                   | G7DF  | 330 | ? Unid | HF Man Pack S1                                                           | RF73MF | NZART | ZL1GWE  |
| 21418   | 10 | 2012 | 07 | 07 | <0259> | 0259                   | P0N   | 330 | ? Unid | OTHR 67 pps S6                                                           | RF73MF | NZART | ZL1GWE  |
| 24915.0 | 3  | 2012 | 7  | 15 | 0030   |                        | A3E   |     |        | ASIAN                                                                    | QG52xi | WIA   | VK4TJ   |
| 24935.0 | 3  | 2012 | 7  | 14 | 0130   |                        | A3E   |     |        | ASIAN                                                                    | QG52xi | WIA   | VK4TJ   |
| 24990.0 | 3  | 2012 | 7  | 14 | 0035   |                        | J3E/L |     |        | ASIAN                                                                    | QG52xi | WIA   | VK4TJ   |
| 28000.0 | 6  | 2012 | 7  | 5  | 0700   |                        | F3E   |     |        | ASIAN                                                                    | QG52xi | WIA   | VK4TJ   |

|         |   |      |   |    |      |     |      |                 |        |     |       |
|---------|---|------|---|----|------|-----|------|-----------------|--------|-----|-------|
| 28005.0 | 6 | 2012 | 7 | 8  | 0050 | A3E |      | ASIAN           | QG52xi | WIA | VK4TJ |
| 28012.5 | 6 | 2012 | 7 | 8  | 0050 | A3E |      | ASIAN           | QG52xi | WIA | VK4TJ |
| 28015.0 | 6 | 2012 | 7 | 8  | 0050 | A3E |      | ASIAN           | QG52xi | WIA | VK4TJ |
| 28025.0 | 6 | 2012 | 7 | 8  | 0050 | A3E |      | ASIAN           | QG52xi | WIA | VK4TJ |
| 28035.0 | 6 | 2012 | 7 | 7  | 0025 | A3E |      | ASIAN           | QG52xi | WIA | VK4TJ |
| 28045.0 | 6 | 2012 | 7 | 10 | 0955 | A3E |      | ASIAN           | QG52xi | WIA | VK4TJ |
| 28050.0 | 6 | 2012 | 7 | 5  | 0655 | A3E |      | ASIAN           | QG52xi | WIA | VK4TJ |
| 28052.7 |   | 2012 | 7 | 13 | 2345 | A3E | 3OBT | DRIFTNET BEACON | QG52xi | WIA | VK4TJ |
| 28052.7 |   | 2012 | 7 | 13 | 2345 | A3E | QHU  | DRIFTNET BEACON | QG52xi | WIA | VK4TJ |
| 28055.0 | 6 | 2012 | 7 | 7  | 0010 | A3E |      | ASIAN           | QG52xi | WIA | VK4TJ |
| 28065.0 | 6 | 2012 | 7 | 7  | 0010 | A3E |      | ASIAN           | QG52xi | WIA | VK4TJ |
| 28075.0 | 3 | 2012 | 7 | 8  | 0050 | A3E |      | ASIAN           | QG52xi | WIA | VK4TJ |
| 28085.0 | 6 | 2012 | 7 | 7  | 0010 | A3E |      | ASIAN           | QG52xi | WIA | VK4TJ |
| 28100.0 | 6 | 2012 | 7 | 13 | 2345 | A3E |      | ASIAN           | QG52xi | WIA | VK4TJ |
| 28105.0 | 6 | 2012 | 7 | 7  | 0020 | A3E |      | ASIAN           | QG52xi | WIA | VK4TJ |
| 28115.0 | 6 | 2012 | 7 | 7  | 0010 | A3E |      | ASIAN           | QG52xi | WIA | VK4TJ |
| 28117.0 | 6 | 2012 | 7 | 7  | 0020 | A3E |      | ASIAN           | QG52xi | WIA | VK4TJ |
| 28125.0 | 3 | 2012 | 7 | 8  | 0045 | A3E |      | ASIAN           | QG52xi | WIA | VK4TJ |
| 28135.0 | 6 | 2012 | 7 | 7  | 0010 | A3E |      | ASIAN           | QG52xi | WIA | VK4TJ |
| 28137.5 | 6 | 2012 | 7 | 8  | 2230 | A3E |      | ASIAN           | QG52xi | WIA | VK4TJ |
| 28140.0 | 6 | 2012 | 7 | 10 | 0830 | A3E |      | ASIAN           | QG52xi | WIA | VK4TJ |
| 28145.0 | 6 | 2012 | 7 | 7  | 0010 | A3E |      | ASIAN           | QG52xi | WIA | VK4TJ |
| 28150.0 | 1 | 2012 | 7 | 7  | 2330 | F1B | 250  |                 | QG52xi | WIA | VK4TJ |
| 28150.0 | 3 | 2012 | 7 | 7  | 2330 | A3E |      | ASIAN           | QG52xi | WIA | VK4TJ |
| 28155.0 | 3 | 2012 | 7 | 8  | 0120 | A3E |      | ASIAN           | QG52xi | WIA | VK4TJ |
| 28160.0 | 3 | 2012 | 7 | 12 | 0710 | A3E |      | ASIAN           | QG52xi | WIA | VK4TJ |
| 28165.0 | 3 | 2012 | 7 | 8  | 0045 | A3E |      | ASIAN           | QG52xi | WIA | VK4TJ |
| 28175.0 | 6 | 2012 | 7 | 2  | 0740 | F3E |      | ASIAN           | QG52xi | WIA | VK4TJ |
| 28185.0 | 6 | 2012 | 7 | 7  | 0020 | F3E |      | ASIAN           | QG52xi | WIA | VK4TJ |
| 28195.0 | 6 | 2012 | 7 | 7  | 2345 | A3E |      | ASIAN           | QG52xi | WIA | VK4TJ |
| 28200.0 | 6 | 2012 | 7 | 7  | 2350 | A3E |      | ASIAN           | QG52xi | WIA | VK4TJ |
| 28205.0 | 6 | 2012 | 7 | 7  | 0020 | A3E |      | ASIAN           | QG52xi | WIA | VK4TJ |
| 28212.5 | 6 | 2012 | 7 | 14 | 0110 | A3E |      | ASIAN           | QG52xi | WIA | VK4TJ |
| 28215.0 | 6 | 2012 | 7 | 7  | 0020 | A3E |      | ASIAN           | QG52xi | WIA | VK4TJ |
| 28217.5 | 6 | 2012 | 7 | 8  | 0120 | A3E |      | ASIAN           | QG52xi | WIA | VK4TJ |
| 28220.0 | 6 | 2012 | 7 | 10 | 0950 | A3E |      | ASIAN           | QG52xi | WIA | VK4TJ |
| 28225.0 | 6 | 2012 | 7 | 8  | 0120 | A3E |      | ASIAN           | QG52xi | WIA | VK4TJ |
| 28235.0 | 6 | 2012 | 7 | 8  | 0120 | A3E |      | ASIAN           | QG52xi | WIA | VK4TJ |
| 28245.0 | 6 | 2012 | 7 | 8  | 0120 | A3E |      | ASIAN           | QG52xi | WIA | VK4TJ |
| 28250.0 | 6 | 2012 | 7 | 7  | 0010 | A3E |      | ASIAN           | QG52xi | WIA | VK4TJ |
| 28255.0 | 6 | 2012 | 7 | 5  | 0700 | A3E |      | ASIAN           | QG52xi | WIA | VK4TJ |
| 28265.0 | 6 | 2012 | 7 | 9  | 0315 | A3E |      | ASIAN           | QG52xi | WIA | VK4TJ |
| 28275.0 | 6 | 2012 | 7 | 8  | 0120 | A3E |      | ASIAN           | QG52xi | WIA | VK4TJ |
| 28285.0 | 6 | 2012 | 7 | 7  | 0005 | A3E |      | ASIAN           | QG52xi | WIA | VK4TJ |
| 28295.0 | 6 | 2012 | 7 | 8  | 0120 | A3E |      | ASIAN           | QG52xi | WIA | VK4TJ |

|         |     |      |   |    |      |     |      |                                   |        |     |       |
|---------|-----|------|---|----|------|-----|------|-----------------------------------|--------|-----|-------|
| 28300.0 | 6   | 2012 | 7 | 15 | 0240 | A3E |      | ASIAN                             | QG52xi | WIA | VK4TJ |
| 28302.8 |     | 2012 | 7 | 13 | 0900 | A1A | MN6  | DRIFTNET BEACON                   | QG52xi | WIA | VK4TJ |
| 28305.0 | 6   | 2012 | 7 | 2  | 0735 | A3E |      | ASIAN                             | QG52xi | WIA | VK4TJ |
| 28315.0 | 6   | 2012 | 7 | 9  | 0345 | A3E |      | ASIAN                             | QG52xi | WIA | VK4TJ |
| 28322.0 | 6   | 2012 | 7 | 13 | 0900 | A3E |      | ASIAN                             | QG52xi | WIA | VK4TJ |
| 28325.0 | 6   | 2012 | 7 | 7  | 0020 | A3E |      | ASIAN                             | QG52xi | WIA | VK4TJ |
| 28335.0 | 6   | 2012 | 7 | 8  | 0120 | A3E |      | ASIAN                             | QG52xi | WIA | VK4TJ |
| 28345.0 | 6   | 2012 | 7 | 15 | 0240 | A3E |      | ASIAN                             | QG52xi | WIA | VK4TJ |
| 28353.0 |     | 2012 | 7 | 12 | 0705 | A1A | RT02 | DRIFTNET BEACON                   | QG52xi | WIA | VK4TJ |
| 28355.0 | 6   | 2012 | 7 | 7  | 0340 | A3E |      | ASIAN                             | QG52xi | WIA | VK4TJ |
| 28357.7 |     | 2012 | 7 | 10 | 0830 | A1A | 4NEL | DRIFTNET BEACON                   | QG52xi | WIA | VK4TJ |
| 28365.0 | 6   | 2012 | 7 | 8  | 0120 | A3E |      | ASIAN                             | QG52xi | WIA | VK4TJ |
| 28370.0 | 100 | 2012 | 7 | 11 | 0705 | A2A |      | LIKE A2A ONLY VERY WIDE BANDWIDTH | QG52xi | WIA | VK4TJ |
| 28370.0 | 6   | 2012 | 7 | 8  | 0115 | A3E |      | ASIAN                             | QG52xi | WIA | VK4TJ |
| 28375.0 | 6   | 2012 | 7 | 9  | 0310 | A3E |      | ASIAN                             | QG52xi | WIA | VK4TJ |
| 28380.0 | 6   | 2012 | 7 | 13 | 2350 | A3E |      | ASIAN                             | QG52xi | WIA | VK4TJ |
| 28385.0 | 6   | 2012 | 7 | 8  | 0115 | A3E |      | ASIAN                             | QG52xi | WIA | VK4TJ |
| 28395.0 | 6   | 2012 | 7 | 15 | 0015 | A3E |      | ASIAN                             | QG52xi | WIA | VK4TJ |
| 28400.0 | 6   | 2012 | 7 | 5  | 0700 | A3E |      | ASIAN                             | QG52xi | WIA | VK4TJ |
| 28405.0 | 6   | 2012 | 7 | 8  | 0100 | A3E |      | ASIAN                             | QG52xi | WIA | VK4TJ |
| 28412.5 | 6   | 2012 | 7 | 11 | 0705 | A3E |      | ASIAN                             | QG52xi | WIA | VK4TJ |
| 28415.0 | 6   | 2012 | 7 | 8  | 0100 | A3E |      | ASIAN                             | QG52xi | WIA | VK4TJ |
| 28425.0 | 6   | 2012 | 7 | 8  | 0100 | A3E |      | ASIAN                             | QG52xi | WIA | VK4TJ |
| 28435.0 | 6   | 2012 | 7 | 8  | 0100 | A3E |      | ASIAN                             | QG52xi | WIA | VK4TJ |
| 28450.0 | 6   | 2012 | 7 | 10 | 0925 | A3E |      | ASIAN                             | QG52xi | WIA | VK4TJ |
| 28452.5 |     | 2012 | 7 | 10 | 0920 | A1A | GK6  | DRIFTNET BEACON                   | QG52xi | WIA | VK4TJ |
| 28455.0 | 6   | 2012 | 7 | 8  | 0100 | A3E |      | ASIAN                             | QG52xi | WIA | VK4TJ |
| 28462.5 | 6   | 2012 | 7 | 15 | 0015 | A3E |      | ASIAN                             | QG52xi | WIA | VK4TJ |
| 28465.0 | 6   | 2012 | 7 | 8  | 0100 | A3E |      | ASIAN                             | QG52xi | WIA | VK4TJ |
| 28475.0 | 6   | 2012 | 7 | 8  | 0100 | A3E |      | ASIAN                             | QG52xi | WIA | VK4TJ |
| 28485.0 | 6   | 2012 | 7 | 8  | 0100 | A3E |      | ASIAN                             | QG52xi | WIA | VK4TJ |
| 28505.0 | 6   | 2012 | 7 | 9  | 0310 | A3E |      | ASIAN                             | QG52xi | WIA | VK4TJ |
| 28515.0 | 6   | 2012 | 7 | 9  | 0310 | A3E |      | ASIAN                             | QG52xi | WIA | VK4TJ |
| 28525.0 | 6   | 2012 | 7 | 7  | 0020 | A3E |      | ASIAN                             | QG52xi | WIA | VK4TJ |
| 28535.0 | 6   | 2012 | 7 | 7  | 0020 | A3E |      | ASIAN                             | QG52xi | WIA | VK4TJ |
| 28555.0 | 6   | 2012 | 7 | 2  | 0735 | A3E |      | ASIAN                             | QG52xi | WIA | VK4TJ |
| 28565.0 | 6   | 2012 | 7 | 9  | 0310 | A3E |      | ASIAN                             | QG52xi | WIA | VK4TJ |
| 28575.0 | 6   | 2012 | 7 | 9  | 0305 | A3E |      | ASIAN                             | QG52xi | WIA | VK4TJ |
| 28585.0 | 6   | 2012 | 7 | 7  | 0015 | A3E |      | ASIAN                             | QG52xi | WIA | VK4TJ |
| 28595.0 | 6   | 2012 | 7 | 9  | 0305 | A3E |      | ASIAN                             | QG52xi | WIA | VK4TJ |
| 28605.0 | 6   | 2012 | 7 | 9  | 0305 | A3E |      | ASIAN                             | QG52xi | WIA | VK4TJ |
| 28615.0 | 6   | 2012 | 7 | 9  | 0305 | A3E |      | ASIAN                             | QG52xi | WIA | VK4TJ |
| 28625.0 | 6   | 2012 | 7 | 8  | 0055 | A3E |      | ASIAN                             | QG52xi | WIA | VK4TJ |
| 28635.0 | 6   | 2012 | 7 | 9  | 0305 | A3E |      | ASIAN                             | QG52xi | WIA | VK4TJ |

|         |   |      |   |    |      |     |                     |        |     |       |
|---------|---|------|---|----|------|-----|---------------------|--------|-----|-------|
| 28645.0 | 6 | 2012 | 7 | 9  | 0305 | A3E | ASIAN               | QG52xi | WIA | VK4TJ |
| 28650.0 | 6 | 2012 | 7 | 13 | 2350 | A3E | ASIAN               | QG52xi | WIA | VK4TJ |
| 28655.0 | 6 | 2012 | 7 | 9  | 0305 | A3E | ASIAN               | QG52xi | WIA | VK4TJ |
| 28665.0 | 6 | 2012 | 7 | 9  | 0305 | A3E | ASIAN               | QG52xi | WIA | VK4TJ |
| 28675.0 | 6 | 2012 | 7 | 9  | 0305 | A3E | ASIAN               | QG52xi | WIA | VK4TJ |
| 28685.0 | 6 | 2012 | 7 | 9  | 0305 | A3E | ASIAN               | QG52xi | WIA | VK4TJ |
| 28695.0 | 6 | 2012 | 7 | 9  | 0305 | A3E | ASIAN               | QG52xi | WIA | VK4TJ |
| 28700.0 | 6 | 2012 | 7 | 8  | 0055 | A3E | ASIAN               | QG52xi | WIA | VK4TJ |
| 28705.0 | 6 | 2012 | 7 | 8  | 0055 | A3E | ASIAN               | QG52xi | WIA | VK4TJ |
| 28715.0 | 6 | 2012 | 7 | 8  | 0055 | A3E | ASIAN               | QG52xi | WIA | VK4TJ |
| 28725.0 | 6 | 2012 | 7 | 8  | 0055 | A3E | ASIAN               | QG52xi | WIA | VK4TJ |
| 28735.0 | 6 | 2012 | 7 | 9  | 0300 | A3E | ASIAN               | QG52xi | WIA | VK4TJ |
| 28745.0 | 6 | 2012 | 7 | 9  | 0300 | A3E | ASIAN               | QG52xi | WIA | VK4TJ |
| 28755.0 | 6 | 2012 | 7 | 9  | 0300 | A3E | ASIAN               | QG52xi | WIA | VK4TJ |
| 28762.5 | 6 | 2012 | 7 | 13 | 2355 | A3E | ASIAN               | QG52xi | WIA | VK4TJ |
| 28765.0 | 6 | 2012 | 7 | 9  | 0300 | A3E | ASIAN               | QG52xi | WIA | VK4TJ |
| 28775.0 | 6 | 2012 | 7 | 10 | 0920 | A3E | ASIAN               | QG52xi | WIA | VK4TJ |
| 28780.0 | 6 | 2012 | 7 | 9  | 0300 | A3E | ASIAN               | QG52xi | WIA | VK4TJ |
| 28810.0 | 6 | 2012 | 7 | 9  | 0325 | A3E | ASIAN               | QG52xi | WIA | VK4TJ |
| 28815.0 | 6 | 2012 | 7 | 14 | 0120 | A3E | ASIAN               | QG52xi | WIA | VK4TJ |
| 28825.0 | 6 | 2012 | 7 | 10 | 0920 | A3E | ASIAN               | QG52xi | WIA | VK4TJ |
| 28850.0 | 6 | 2012 | 7 | 10 | 0950 | A3E | ASIAN               | QG52xi | WIA | VK4TJ |
| 28855.0 | 6 | 2012 | 7 | 13 | 2355 | A3E | ASIAN               | QG52xi | WIA | VK4TJ |
| 28862.5 | 6 | 2012 | 7 | 9  | 0300 | A3E | ASIAN               | QG52xi | WIA | VK4TJ |
| 28875.0 | 6 | 2012 | 7 | 10 | 0920 | A3E | ASIAN               | QG52xi | WIA | VK4TJ |
| 28880.0 | 6 | 2012 | 7 | 13 | 0855 | A3E | ASIAN, SW BROADCAST | QG52xi | WIA | VK4TJ |
| 28885.0 | 6 | 2012 | 7 | 14 | 0120 | A3E | ASIAN               | QG52xi | WIA | VK4TJ |
| 28900.0 | 6 | 2012 | 7 | 13 | 0855 | A3E | ASIAN               | QG52xi | WIA | VK4TJ |
| 28912.5 | 6 | 2012 | 7 | 13 | 2355 | A3E | ASIAN               | QG52xi | WIA | VK4TJ |
| 28915.0 | 6 | 2012 | 7 | 9  | 0255 | A3E | ASIAN               | QG52xi | WIA | VK4TJ |
| 28925.0 | 6 | 2012 | 7 | 10 | 0915 | A3E | ASIAN               | QG52xi | WIA | VK4TJ |
| 28930.0 | 6 | 2012 | 7 | 10 | 0950 | A3E | ASIAN               | QG52xi | WIA | VK4TJ |
| 28935.0 | 6 | 2012 | 7 | 13 | 2355 | A3E | ASIAN               | QG52xi | WIA | VK4TJ |
| 28950.0 | 6 | 2012 | 7 | 12 | 0700 | A3E | ASIAN               | QG52xi | WIA | VK4TJ |
| 28967.5 | 6 | 2012 | 7 | 9  | 0255 | A3E | ASIAN               | QG52xi | WIA | VK4TJ |
| 28975.0 | 6 | 2012 | 7 | 10 | 0825 | A3E | ASIAN               | QG52xi | WIA | VK4TJ |
| 29000.0 | 6 | 2012 | 7 | 12 | 0700 | A3E | ASIAN               | QG52xi | WIA | VK4TJ |
| 29040.0 | 6 | 2012 | 7 | 9  | 0320 | F3E | ASIAN               | QG52xi | WIA | VK4TJ |
| 29045.0 | 6 | 2012 | 7 | 9  | 0320 | A3E | ASIAN               | QG52xi | WIA | VK4TJ |
| 29060.0 | 6 | 2012 | 7 | 13 | 2355 | A3E | ASIAN               | QG52xi | WIA | VK4TJ |
| 29070.0 | 6 | 2012 | 7 | 13 | 2355 | A3E | ASIAN               | QG52xi | WIA | VK4TJ |
| 29075.0 | 6 | 2012 | 7 | 10 | 0825 | A3E | ASIAN               | QG52xi | WIA | VK4TJ |
| 29100.0 | 6 | 2012 | 7 | 10 | 0825 | A3E | ASIAN               | QG52xi | WIA | VK4TJ |
| 29125.0 | 6 | 2012 | 7 | 14 | 0000 | A3E | ASIAN               | QG52xi | WIA | VK4TJ |
| 29135.0 | 6 | 2012 | 7 | 14 | 0000 | A3E | ASIAN               | QG52xi | WIA | VK4TJ |

|         |   |      |   |    |      |     |     |       |        |     |       |
|---------|---|------|---|----|------|-----|-----|-------|--------|-----|-------|
| 29160.0 | 6 | 2012 | 7 | 22 | 0515 | A3E |     | ASIAN | QG52xi | WIA | VK4TJ |
| 29162.5 | 6 | 2012 | 7 | 10 | 0820 | A3E |     | ASIAN | QG52xi | WIA | VK4TJ |
| 29165.0 | 6 | 2012 | 7 | 14 | 0000 | A3E |     | ASIAN | QG52xi | WIA | VK4TJ |
| 29175.0 | 6 | 2012 | 7 | 10 | 0820 | A3E |     | ASIAN | QG52xi | WIA | VK4TJ |
| 29185.0 | 6 | 2012 | 7 | 14 | 0000 | A3E |     | ASIAN | QG52xi | WIA | VK4TJ |
| 29187.5 | 6 | 2012 | 7 | 13 | 0910 | A3E |     | ASIAN | QG52xi | WIA | VK4TJ |
| 29212.5 | 6 | 2012 | 7 | 10 | 0820 | A3E |     | ASIAN | QG52xi | WIA | VK4TJ |
| 29220.0 | 6 | 2012 | 7 | 12 | 0700 | A3E |     | ASIAN | QG52xi | WIA | VK4TJ |
| 29235.0 | 6 | 2012 | 7 | 14 | 0000 | A3E |     | ASIAN | QG52xi | WIA | VK4TJ |
| 29250.0 | 6 | 2012 | 7 | 12 | 0655 | A3E |     | ASIAN | QG52xi | WIA | VK4TJ |
| 29262.5 | 6 | 2012 | 7 | 10 | 0820 | A3E |     | ASIAN | QG52xi | WIA | VK4TJ |
| 29275.0 | 6 | 2012 | 7 | 13 | 0850 | A3E |     | ASIAN | QG52xi | WIA | VK4TJ |
| 29287.5 | 6 | 2012 | 7 | 14 | 0000 | A3E |     | ASIAN | QG52xi | WIA | VK4TJ |
| 29325.0 | 6 | 2012 | 7 | 10 | 0820 | A3E |     | ASIAN | QG52xi | WIA | VK4TJ |
| 29350.0 | 6 | 2012 | 7 | 12 | 0655 | A3E |     | ASIAN | QG52xi | WIA | VK4TJ |
| 29362.5 | 6 | 2012 | 7 | 10 | 0945 | A3E |     | ASIAN | QG52xi | WIA | VK4TJ |
| 29375.0 | 6 | 2012 | 7 | 10 | 0820 | A3E |     | ASIAN | QG52xi | WIA | VK4TJ |
| 29385.0 | 6 | 2012 | 7 | 10 | 0945 | A3E |     | ASIAN | QG52xi | WIA | VK4TJ |
| 29425.0 | 6 | 2012 | 7 | 10 | 0940 | A3E |     | ASIAN | QG52xi | WIA | VK4TJ |
| 29425.0 | 1 | 2012 | 7 | 7  | 0120 | F1B | 150 | DAILY | QG52xi | WIA | VK4TJ |
| 29450.0 | 6 | 2012 | 7 | 10 | 0815 | A3E |     | ASIAN | QG52xi | WIA | VK4TJ |
| 29500.0 | 6 | 2012 | 7 | 10 | 0940 | A3E |     | ASIAN | QG52xi | WIA | VK4TJ |
| 29512.5 | 6 | 2012 | 7 | 10 | 0815 | A3E |     | ASIAN | QG52xi | WIA | VK4TJ |
| 29525.0 | 6 | 2012 | 7 | 10 | 0815 | A3E |     | ASIAN | QG52xi | WIA | VK4TJ |
| 29537.5 | 6 | 2012 | 7 | 10 | 0815 | A3E |     | ASIAN | QG52xi | WIA | VK4TJ |
| 29562.5 | 6 | 2012 | 7 | 12 | 0655 | A3E |     | ASIAN | QG52xi | WIA | VK4TJ |
| 29575.0 | 6 | 2012 | 7 | 9  | 0200 | A3E |     | ASIAN | QG52xi | WIA | VK4TJ |
| 29625.0 | 6 | 2012 | 7 | 8  | 2305 | A3E |     | ASIAN | QG52xi | WIA | VK4TJ |
| 29645.0 | 6 | 2012 | 7 | 10 | 0915 | A3E |     | ASIAN | QG52xi | WIA | VK4TJ |
| 29650.0 | 6 | 2012 | 7 | 10 | 0810 | A3E |     | ASIAN | QG52xi | WIA | VK4TJ |
| 29662.5 | 6 | 2012 | 7 | 9  | 0125 | A3E |     | ASIAN | QG52xi | WIA | VK4TJ |
| 29675.0 | 6 | 2012 | 7 | 8  | 2305 | A3E |     | ASIAN | QG52xi | WIA | VK4TJ |
| 29687.5 | 6 | 2012 | 7 | 10 | 0810 | A3E |     | ASIAN | QG52xi | WIA | VK4TJ |
| 29700.0 | 6 | 2012 | 7 | 9  | 0100 | A3E |     | ASIAN | QG52xi | WIA | VK4TJ |