

# ENIGMA 2000 NEWSLETTER



<http://enigma2000group.org>



Control room at an undisclosed location outside of Pullach:  
Martin Schlüter allowed to photograph the spaces of the BND.

<http://www.spiegel.de/kultur/gesellschaft/bnd-martin-schlueter-zeigt-bilder-vom-geheimdienst-aus-pullach-a-979925.html>

<http://www.spiegel.de/fotostrecke/bnd-bildband-ueber-zentrale-des-geheimdienstes-in-pullach-fotostrecke-116732.html>

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See last page also.

## Active Station List/ECL Archive.

You will all be aware of the Active Station List v1.2 of February. This has taken Brian and I some longtime to produce and thanks must go to all who have imparted their wisdom either during its compilation and review prior to and after its dissemination. The change from the ENIGMA Control List was thought necessary with the number of past stations now greatly outnumbering the active stations. Placing those active stations initially will assist the newcomer and those who are active monitors.

The issue has already been previewed [hence v1.2] to remove the odd typo, repetition or incorrect designation. For those with an interest we will wait two years before transferring an apparently 'non-active' station to the 'discontinued' listing.

The list will be regularly updated and circulated to ensure accuracy. Logging and Abbreviations Explained and Number Systems have been transferred from the Chart Section to the ASL too.

Thanks to Ary of N&O we also include the N&O and Priyam Designations, of obvious interest to those who listen beyond number stations.

Thanks also to Mike of Kent for the upkeep of the ECL.

## Past observations from PoSW:

One or two developments in the Number Station scene; for a start, the weekly Saturday 1600 or 1605 UTC S06 schedule seems to have gone, not having survived into 2016, at least I have not been able to find it. In the last months of 2015 it was heard on either 6,778 kHz at 1600Z, or on 5,073 at 1605, both frequencies plus or minus a few kHz. This schedule had been around for years and was usually a good signal whatever the season, and could be found by searching for the pre-transmission warm-up routine ten or fifteen minutes before the expected transmission time with the tell-tale 1,200 Hz tone followed by a single spoken three figure number. Such searches have proved fruitless so far in 2016 so if it is still around it is managing to keep itself remarkably well hidden. This seems to indicate a running down of the S06 network over the past couple of years because two other S06 schedules which used to appear on Saturdays, in these instances in the UK evening time, and a Monday + Thursday 1900Z schedule, ceased in December 2014 and did not survive into 2015,

On the other hand, a schedule with call "480" has returned, seems to be Sundays and Tuesdays, not heard so far on other days of the week, at 1700 + 1730 UTC. This schedule has been observed before, a short-lived entity running for a couple of months before vanishing. I first logged this one in the second half of January and it has continued in February on higher frequencies. Always a group count in the forties which gives a total transmission time of eleven to twelve minutes. Transmission mode is sometimes the "top-sided AM", or upper side-band with carrier much favoured by S06 and related stations, but also upper side-band suppressed carrier is used. UPDATE:- this schedule appears to have ended, the last transmission being on Tuesday 16-February, not found on Sunday the 21<sup>st</sup> or Tuesday the 23<sup>rd</sup>.

E07 continues in 2016 with the expected schedules appearing on the same frequencies as used for several years, the low - and sometimes very low - levels of audio continue to be a problem making for difficult copy, although there have been a large number of "000 - no message" transmissions so far in 2016 in which the carrier goes QRT after just under two minutes and thirty seconds after the start time.

No big surprises so far with the Wednesday 2100Z start and Saturday 0900Z start E07a SSB schedules.

## Morse Stations

All frequencies listed in kHz. Freqs are generally +/- 1k

This is a representative sample of the logs received, giving an indication of station behaviour and the range of times/freqs heard. These need to be read in conjunction with any other articles/charts/comments appended to this issue.

## Morse - Number Stations

### UNID CW

Jean-Paul (JPL) caught this on the remote tuner in Siberia.

8228      1427z      26 Jan      '613'      613 (IP - Cont'd - 1427z - Silent)      (Remote tuner Siberia)      JPL      TUE

There is not enough information from just this one transmission to be able to make any sort of an identification of this. It could be M23, As Ary (AB) suggested as a possibility, or even an M01 variant. On the other hand, it could also be military...

**M01/1** XIV MCW, hand (197 sched for Nov - Feb). Will change to M01/2 sched ID 463 for Mar - Apr.

M01 is not always audible & does occasionally appear to miss the occasional schedule. On Thursday 14 January, however, both Brian (BR) & Jim (JkC) logged both M01 schedules as missing - an unusual event in itself - but Jim also noted that both the M01b schedules were also missing that evening, too.

Furthermore, in both January & February, there was an unusual number of missing schedules, while others were very weak. Conditions were not unusually poor, so it is not known why these transmissions were not heard. It is quite possible that they were present at times, but not audible in the UK, although it would seem unlikely that one transmission, for example the 1800z, would be heard at a good strength, while the 2000z on a lower frequency two hours later was not heard - as happened on 18 February.

Strength of M01 signals improved towards the end of February, the month ending with a 39 group message sent on Sunday 28 February - An unusual, but not unknown event.

Jim (JkC) continues to note the reuse of M01 or M01b message content being used for M01 messages, often over a year old.

**January 2016:**

|      |       |        |                                     |           |                    |  |        |     |
|------|-------|--------|-------------------------------------|-----------|--------------------|--|--------|-----|
| 4490 | 2000z | 05 Jan | '197' 281 30 ==                     | 85389...  | ...LG 01195 ==     | Fair, med-fast / V.Weak                      | BR/JkC | TUE |
|      | 2000z | 07 Jan | '197' 707 30 ==                     | 45010...  | ...LG 17385 ==     | Fair, fast. Irregular CW. No errors          | BR     | THU |
|      | 2000z | 12 Jan | '197' 356 30 ==                     | 14665...  | ...LG 51425 ==     | Fair, slow. Irregular. Errors noted          | BR     | TUE |
|      | 2000z | 14 Jan | NRH                                 |           |                    |  | BR/JkC | THU |
|      | 2000z | 19 Jan | '197' 383 30 ==                     | 07727...  | ...LG 75786 ==     | Strong, fast. Grp27 sent once only           | BR/JkC | TUE |
|      | 2000z | 21 Jan | '197' 072 30 ==                     | 67832...  | ...LG 45346 ==     | Strong, med-fast. Error in grp22             | BR     | THU |
|      | 2000z | 26 Jan | NRH                                 |           |                    |  | BR     | TUE |
|      | 2000z | 28 Jan | '197' 359 30 ==                     | 75213...  | ...LG 39275 ==     | Fair. Ended 2013z. Numerous errors           | JkC    | THU |
| 5320 | 1800z | 05 Jan | [Unworkable except to confirm sked] | 0000z     | NRH / V.Weak       |  | BR/JkC | TUE |
|      | 1800z | 07 Jan | '197' 234 30 ==                     | 72417...  | ...LG 01162 ==     | Weak. Ends 1809z Too poor for full copy      | JkC    | THU |
|      | 1800z | 12 Jan | NRH                                 |           |                    |  | BR     | TUE |
|      | 1800z | 14 Jan | NRH                                 |           |                    |  | BR/JkC | THU |
|      | 1800z | 19 Jan | '197' 445 30 ==                     | 13941...  | ...LG 13025 ==     | Fair via Markt Allhau Remote. Many errors    | JkC    | TUE |
|      | 1800z | 21 Jan | '197' 183 30 ==                     | 14239...  | ...LG 55022 ==     | Strong, med-fast. Numerous errors            | BR     | THU |
|      | 1800z | 26 Jan | NRH                                 |           |                    |  | BR     | TUE |
|      | 1800z | 28 Jan | '197' 718 30 ==                     | 54512...  | ...LG 40088 ==     | Fair. Ends 1814z. Numerous errors [Note 2:]  | JkC    | THU |
| 5465 | 0700z | 03 Jan | '197' 178 30 ==                     | 17593...  | ...LG . 953 . ==   | Weak, fast. Difficult copy at times          | BR     | SUN |
|      | 0700z | 10 Jan | NRH                                 |           |                    |  | BR     | SUN |
|      | 0700z | 17 Jan | '197' 721 30 ==                     | 45643...  | ...LG 12104 ==     | Weak/Fair, med-fast. QRM from XJT            | BR     | SUN |
|      | 0700z | 24 Jan | '197' 434 30 ==                     | 24664.... | ...LG 16486 ==     | Fair, Slow. Irregular with long pauses       | BR     | SUN |
|      | 0700z | 31 Jan | '197' 416 30 ==                     | .2174...  | ...LG . . . . . == | V.Weak. Poor copy. Details via Twente        | BR     | SUN |
| 5810 | 1500z | 02 Jan | '197' 451 30 ==                     | 98081...  | ...LG 9 .771 ==    | Weak, fast. Difficult copy at times          | BR     | SAT |
|      | 1500z | 16 Jan | '197' 619 30 ==                     | 85648...  | ...LG 78553 ==     | Strong, slow. Irregular with long pauses     | BR     | SAT |
|      | 1500z | 23 Jan | '197' 846 30 ==                     | 35796...  | ...LG 84935 ==     | Weak, V.fast. V.poor sig - Detail via Twente | BR     | SAT |
|      | 1500z | 30 Jan | NRH                                 |           |                    |  | BR     | SAT |

Note 1: GR1-10 are the same as GR21-20 of M01 1800z 01 Sep 2015, & GR11-30 are the same as GR1-10 of M01 2000z 01 Sep 2015. (JkC)

Note 2: GR1-10 are the same as GR21-30 of M01 2000z 01 Sep 2015, & the same message as M01 1800z 28 Oct 2014, with different DK (JkC)

**February 2016:**

|      |       |        |   |                 |                       |  |            |     |
|------|-------|--------|---|-----------------|-----------------------|--|------------|-----|
| 4490 | 2000z | 02 Feb | [Very weak signal - No useful copy]. Occasional snatches of two or three numbers] |                 |                       |  | BR         | TUE |
|      | 2000z | 04 Feb | '197' 150 30 ==   | 86619...        | ...LG 17873 ==        | Good, slow. No errors                          | BR         | THU |
|      | 2000z | 09 Feb | '197' 412 30 ==   | . 1476...       | ...LG 01467 ==        | Weak / Fair, med-fast. Poor copy               | BR         | TUE |
|      | 2000z | 11 Feb | NRH   |                 |                       |  | BR         | THU |
|      | 2000z | 16 Feb | '197' <b>697 30 ==</b>  | <b>06994...</b> | <b>...LG 36121 ==</b> | Fair. Ends 2009z. Numerous errors [Note 3:]    | JkC        | TUE |
|      | 2000z | 18 Feb | NRH   |                 |                       |  | BR         | THU |
|      | 2000z | 23 Feb | '197' 479 30 ==   | 22835...        | ...LG 48415 ==        | Weak, Fast. Copy difficult at times            | BR         | TUE |
|      | 2000z | 25 Feb | '197' 423 30 ==   | 52771...        | ...LG 53320 ==        | Fair. Ends 2011z. Numerous errors              | JkC        | THU |
| 5230 | 1800z | 02 Feb | [Very weak signal - No useful copy]. Occasional snatches of two or three numbers] |                 |                       |  | BR         | TUE |
|      | 1800z | 04 Feb | '197' - Severe XJT QRM. M01 was heard briefly above the noise at one point        |                 |                       |  | BR         | THU |
|      | 1800z | 09 Feb | '197' 320 30 ==   | 10375...        | ...LG 12314 ==        | V.weak / Weak, med-fast. Poor copy             | BR         | TUE |
|      | 1800z | 11 Feb | [Very weak signal - No useful copy]   |                 |                       |  |            |     |
|      | 1800z | 16 Feb | '197' <b>697 30 ==</b>  | <b>06994...</b> | <b>...LG 36121 ==</b> | Fair. Ends 1810z Numerous errors [Note 3:]     | JkC        | TUE |
|      | 1800z | 18 Feb | '197' 579 30 ==   | 24751...        | ...LG 07744 ==        | Fair/Good, med-fast. No errors                 | BR         | THU |
|      | 1800z | 23 Feb | '197' 247 30 ==   | 88042...        | ...LG 28045 ==        | Strong, fast. Numerous errors                  | BR         | TUE |
|      | 1800z | 25 Feb | '197' 291 30 ==   | 01504...        | ...LG 82062 ==        | Fair. Ends 1808z. Numerous errors              | JkC        | THU |
| 5465 | 0700z | 07 Feb | [Very weak signal - No useful copy]   |                 |                       |  | BR         | SUN |
|      | 0700z | 14 Feb | '197' - [Very weak signal. Apart from part of call-up, no useful copy]            |                 |                       |  | BR         | SUN |
|      | 0700z | 21 Feb | '197' 902 30 ==   | 00162...        | ...LG 18827 ==        | Fair, fast. Numerous errors                    | BR         | SUN |
|      | 0700z | 28 Feb | '197' 289 <b>39 ==</b>  | 64001...        | ...LG 54554 ==        | Fair, fast. Numerous errors. <b>39 grp msg</b> | BR         | SUN |
| 5810 | 1500z | 13 Feb | NRH   |                 |                       |  | BR/E.SMITH | SAT |
|      | 1500z | 20 Feb | '197' 137 30 ==   | .. 361...       | ...LG 01844 ==        | Weak, V.fast. Poor copy (Via Twente)           | BR         | SAT |

Note 3: Same message used for both 1800z/2000z transmissions, which is a repeat of M01b message 05 Sept 2014 with different DK (JkC)

|   |
|---|
| <p><b>M01 4490kHz 2000z 28 Jan16</b></p> <p>197 (R4m) 359 359 30 30 ==</p> <p>75213 13725 03253 81657 31118<br/>         09171 36554 77303 86270 35048<br/>         71675 02007 24574 39441 40588<br/>         60428 61012 91901 75945 87206<br/>         17004 44917 14757 00590 74256<br/>         58318 89620 39968 54046 39275<br/>         == =</p> <p>359 359 30 30 000</p> <p style="text-align: right;"><i>Courtesy JkC</i></p> |
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| <p><b>M01 4490kHz 2000z 04 Feb16</b></p> <p>197 (R4m) 150 150 30 30 ==</p> <p>86619 56977 08935 99954 26733<br/>         00968 05814 66130 70680 43949<br/>         77331 64996 28855 29564 39564<br/>         19447 85053 53476 21498 17983<br/>         45010 25684 34344 85826 04622<br/>         72232 11459 54162 10076 17873<br/>         == =</p> <p>150 150 30 30 000</p> <p style="text-align: right;"><i>Courtesy BR</i></p> |
|--|

|   |
|---|
| <p><b>M01 5320kHz 1800z 16 Feb16</b></p> <p>197 (R4m) 697 697 30 30 ==</p> <p>09694 19167 29273 67807 97278<br/>         70377 80301 57245 85937 24716<br/>         04382 06572 39010 44813 05459<br/>         22406 97478 83655 62333 98086<br/>         03985 85545 23444 89431 59258<br/>         06385 96841 37583 05702 36121<br/>         == =</p> <p>697 697 30 30 000</p> <p style="text-align: right;"><i>Courtesy JkC</i></p> |
|---|

**M01a** (From Feb 2016 M01a has been redefined to cover all M01 variants - excepting M01b - ENIGMA 2000 Current Station List February 2016 refers)

|      |   |        |  |      |     |     |
|------|---|--------|--|------|-----|-----|
| 7640 | 1606 (IP) - 1624z   | 15 Jan | [In progress] ... 333 (R3) 41687 (R2) (Continues...) | Good | JkC | FRI |
|      | 333 333 333 41687 41687 (1606z - R2m, auto-sent)<br>273 273 273 333 25205 25205 (1609z - R1m)<br>273 273 273 333 43667 43667 (1610z)<br>hand sent keyplay only (1611z - 1619z)<br>111 999 111 (1620z - auto-sent)<br>446 20 = (short 0's, groups not repeated)<br>28143 79509 24994 18677 02382 38879 41039 46479 40310 32414<br>93371 66688 99004 91922 54570 19267 50345 18181 69406 43954<br>= 446 20 (1621z)<br>111 000 (1624z) (NFH - 1630z) |        |  |      |     |     |
| 9072 | 1611 (IP) - 1623z   | 05 Jan | [In progress] ... 273 (R3) 67439 (R2) (continues...) | Good | JkC | TUE |
|      | 273 273 273 67439 67439 (1611-1613z - auto-sent)<br>273 273 273 66309 66309 (1613-1616z - auto-sent)<br>273 (R1m) (1618z - hand sent)<br>111 999 358 20 = (hand sent - groups not repeated - short 0's)<br>40792 ...48 40618 37951 25973 27419 .8162 24079 85102 97643<br>0.875 82469 58316 60473 15927 24790 20743 20973 82516 07419<br>= 358 20 000 (1623z) (Silence) (NFH - 1630z)   |        |  |      |     |     |
| 9126 | 1303 (IP) - 1310z   | 21 Jan | [In progress] ... 273 (R3) 99935 (R2) (Continues...) | Good | JkC | THU |
|      | 273 273 273 99935 99935 (1303-1306z)<br>273 273 273 98216 98216 (1306-1310z) (silent - 1310z) (NFH - 1320z)   |        |  |      |     |     |

**M01b**

**January 2016:**

|            |                   |        |                                     |                                 |     |     |
|------------|-------------------|--------|-------------------------------------|---------------------------------|-----|-----|
| 2405//3181 | 2110 - 2135z      | 01 Jan | '610' 691 54 = 35322 ... 92315 000  | V.Weak//V.Weak                  | JkC | FRI |
|            | 2110 - 2031z      | 15 Jan | '610' 505 38 = 64757 ... 20902 000  | V.Weak//Fair                    | JkC | FRI |
|            | 2110z             | 22 Jan | '610' [ ... Rest unworkable]        | V.weak //3180kHz NRH            | JkC | FRI |
| 2425//3205 | 2015 - 2040z      | 04 Jan | '375' 691 54 = 35322 ... 92315 000  | V.Weak//Weak                    | JkC | MON |
| 2435//3520 | 1910 - 1935z      | 04 Jan | '863' 691 54 = 35322 ... 92315 000  | V.Weak//Weak                    | JkC | MON |
| 2470//3545 | 1932 - 1940z      | 14 Jan | NRH                                 |                                 | JkC | THU |
| 2485//3160 | 1932 - 1940z      | 14 Jan | NRH                                 |                                 | JkC | THU |
| 2655//3195 | 2002 (IP) - 2027z | 01 Jan | 691 54 [... 92315 = 691 54 000]     | Weak//Weak (Repeat of 07 Dec15) | JkC | FRI |
|            | 2002 - 2023z      | 15 Jan | '866' 505 38 = 64757 ... 20902 000  | Weak/Fair                       | JkC | FRI |
|            | 2002z             | 22 Jan | [Unworkable except to confirm sked] | V.weak //3195kHz NRH            | JkC | FRI |
| 3195       | 2002 - 2022z      | 29 Jan | '866' 505 38 = 64757 ... 20902 000  | Weak //2655kHz NRH              | JkC | FRI |

**February 2016:**

|            |              |        |  |                    |     |     |
|------------|--------------|--------|--|--------------------|-----|-----|
| 2405//3180 | 2110 - 2128z | 19 Feb | '610' 164 35 = 30575 49228 ... 19765 000 | Weak//Fair         | JkC | FRI |
| 2470//3545 | 1932 - 1950z | 18 Feb | '910' 164 35 = 30575 49228 ... 19765 000 | Weak//Weak         | JkC | THU |
|            | 1932 - 2000z | 25 Feb | '910' 435 63 = 85705 ... 60867 000       | Fair//Fair         | JkC | THU |
| 2485       | 2042 - 2100z | 18 Feb | '382' 164 35 = 30575 49228 ... 19765 000 | Fair //3160kHz NRH | JkC | THU |
| 2485//3160 | 2042 - 2110z | 25 Feb | '382' 435 63 = 85705 ... 60867 000       | Fair//Fair         | JkC | THU |
| 2655//3195 | 2002 - 2020z | 19 Feb | '866' 164 35 = 30575 49228... 19765 000  | Weak//Fair         | JkC | FRI |

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| <p><b>M01b 2655//3195kHz 2002z 15 Jan16</b></p> <p>866 (R4m) 505 505 38 38 ==</p> <p>64757 21165 78189 72688 73296<br/>                 28440 78319 52081 49282 27102<br/>                 97570 68298 38921 29519 75750<br/>                 51175 71829 85569 65907 43097<br/>                 35983 19641 00651 72212 02917<br/>                 36424 05781 49784 13795 97456<br/>                 02549 15407 48149 07884 05722<br/>                 88742 41803 20902 ==</p> <p>505 505 38 38 000</p> <p style="text-align: center;"><i>Courtesy JkC</i></p> |
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| <p><b>M01b 2470//3545kHz 1932z 18 Feb16</b></p> <p>910 (R4m) 164 164 35 35 ==</p> <p>30575 49228 13793 59487 77686<br/>                 15631 19254 84811 79945 59648<br/>                 08168 40222 78692 26291 71476<br/>                 77609 15646 52753 15218 99415<br/>                 88062 22898 01825 20462 37980<br/>                 27900 13399 46648 14622 81191<br/>                 17136 49255 49883 18971 19765<br/>                 ==</p> <p>164 505 35 35 000</p> <p style="text-align: center;"><i>Courtesy JkC</i></p> |
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**M03** III ICW, some CW

The two remaining schedules for M03 appeared again in January, but apart from a report from Ary (AB) of a weak transmission on 04 February, nothing of M03 or the accompanying POL FSK has been heard for the remainder of the month.

The number of transmissions decreased dramatically during 2015, leaving only the 4505kHz & 4828kHz schedules on Mon/Wed & Thu/Sun respectively.

Have transmissions from M03 ceased completely now? Please keep a watch for this station both on the schedules & also while general monitoring as it's possible that it may have changed frequencies.

|      |              |        |  |                                 |         |     |
|------|--------------|--------|--|---------------------------------|---------|-----|
| 4505 | 1320 - 1336z | 18 Jan | 541/32 == 16953 85685....18206 96600 ==      | Weak/Fair (Variable) via Twente | BR      | MON |
|      | 1320 - 1323z | 25 Jan | 543/00 == 000                                | Good via Zielona Góra remote    | JkC     | MON |
|      | 1320z        | 08 Feb | NRH  |                                 | E.SMITH | MON |
|      | 1320z        | 10 Feb | NRH  |                                 | E.SMITH | WED |
|      | 1320z        | 17 Feb | NRH  |                                 | BR      | WED |
| 4828 | 1320 - 1323z | 07 Jan | 437/00 == 000                                | Fair                            | JkC     | THU |
|      | 1320 - 1336z | 21 Jan | 435/31 == 33349 03021 ... 29166 90672 == 000 | Good                            | JkC     | THU |
|      | 1320 - 1336z | 24 Jan | 435/31 == 33349 03021 ... 29166 90672 == 000 | Good                            | JkC     | SUN |
|      | 1320z        | 11 Feb | NRH  |                                 | E.SMITH | THU |

**Comparison between POL FSK & M03 messages 1305z & 1320z 21 January**

| <u>POL FSK</u> |       |       |       |       | <u>MORSE M03</u> |                       |       |       |       |          |
|----------------|-------|-------|-------|-------|------------------|-----------------------|-------|-------|-------|----------|
| 4505kHz        | 1305z |       |       |       | 21 Jan16         | 4828kHz               | 1320z |       |       | 21 Jan16 |
| 0437           | 0437  | 0437  | 0437  | 0437  |                  | 435/31                | (R3m) | ==    |       |          |
| 88888          | 88888 |       |       |       |                  | 33349                 | 03021 | 97033 | 91045 | 61972    |
| 33349          | 03021 | 97033 | 91045 | 61972 |                  | 51795                 | 19003 | 43266 | 00933 | 49616    |
| 51795          | 19003 | 43266 | 00933 | 49616 |                  | 52784                 | 45741 | 54841 | 80775 | 77830    |
| 52784          | 45741 | 54841 | 80775 | 77830 |                  | 84684                 | 33482 | 68876 | 39017 | 99218    |
| 84684          | 33482 | 68876 | 39017 | 99218 |                  | 00908                 | 86782 | 25688 | 40562 | 48948    |
| 00908          | 86782 | 25688 | 40562 | 48948 |                  | 39679                 | 17892 | 22315 | 30783 | 29166    |
| 39679          | 17892 | 22315 | 30783 | 29166 |                  | 90672                 |       |       |       |          |
| 90672          |       |       |       |       |                  | = 435/31              | (R5)  | =     |       |          |
| 88888          | 88888 |       |       |       |                  | (single group repeat) |       |       |       |          |
| 00035          | 00035 |       |       |       |                  | = 000                 |       |       |       |          |

*Courtesy JkC* *Courtesy JkC*

Another example of the two associated transmissions from Jim (JkC). The message is the same with the same additional stutter groups - both before & at the end of the message.

We suspect that the final two groups could be the GC (Msg length + 4 x stutter grps). Again have a correct count of 00035 ( 31 grp msg + 4 stutter grps).

**M08a** XVIII ICW / CW, some MCW

Our regular report & comprehensive logs from our Man in America - AnonUS

M08a began the New Year with all the known schedules still in place. The usual transmitter problems, hums, late startups and mixing with HM01 were all heard during January & February, there was either a change in scheduling or the Cubans' clock has drifted further with the transmissions now beginning 5 minutes before the hour.

Of note, on 12 January at 2300z all three call-ups ended with 1, the sequence of numbers was unusual as expected.

**January 2016:**

|      |       |        |  |        |     |
|------|-------|--------|--|--------|-----|
| 7554 | 2000z | 01 Jan | Brief transmitter check at 1952z but no Morse followed | AnonUS | FRI |
|      | 2000z | 02 Jan | [18262 22501 35022] Usual weekend call-ups             | AnonUS | SAT |
|      | 2000z | 05 Jan | [25401 38822 42251]                                    | AnonUS | TUE |
|      | 2000z | 07 Jan | [02252 15671 28011]                                    | AnonUS | THU |
|      | 2000z | 12 Jan | [36661 40002 53321]                                    | AnonUS | TUE |
|      | 2000z | 15 Jan | [41011 54342 67761]                                    | AnonUS | FRI |
|      | 2000z | 23 Jan | [18262 22501 35022] Usual weekend call-ups             | AnonUS | SAT |
|      | 2000z | 30 Jan | [18262 22501 35022] Usual weekend call-up              | AnonUS | SAT |
|      | 2000z | 31 Jan | Brief carrier but no Morse                             | AnonUS | SUN |

|                       |       |        |   |   |                       |        |
|-----------------------|-------|--------|---|---|-----------------------|--------|
| 8009                  | 2300z | 02 Jan | [18262 22501 35022]   | Usual weekend call-ups  | AnonUS                | SAT    |
|                       | 2300z | 03 Jan | [18262 22501 35022]   | Usual weekend call-ups  | AnonUS                | SUN    |
|                       | 2300z | 04 Jan | [86782 00111 13442]   |   | AnonUS                | MON    |
|                       | 2300z | 06 Jan | [84301 06622 20151]   |   | AnonUS                | WED    |
|                       | 2300z | 09 Jan | Already in progress with HM01 mixing in   |   | AnonUS                | SAT    |
|                       | 2300z | 11 Jan | Up late in progress   |   | AnonUS                | MON    |
|                       | 2300z | 18 Jan | [64502 85332 08651]   |   | AnonUS                | MON    |
|                       | 2300z | 20 Jan | [38131 42552 55881]   |   | AnonUS                | WED    |
|                       | 2300z | 23 Jan | [18262 22501 35022]   | Usual weekend call-up   | AnonUS                | SAT    |
|                       | 2300z | 25 Jan | [68862 82201 05521]   |   | AnonUS                | MON    |
|                       | 2300z | 30 Jan | [18262 22501 35022]   | Usual weekend call-ups. HM01 mixing with the signal                   | AnonUS                | SAT    |
| 8096                  | 1400z | 02 Jan | [18262 22501 35022]   | Usual weekend call-ups. Almost the entire TX was repeated at 1433z    | AnonUS                | SAT    |
|                       | 1400z | 03 Jan | Up late in progress   |   | AnonUS                | SUN    |
|                       | 1400z | 04 Jan | [40542 53062 66301]   |   | AnonUS                | MON    |
|                       | 1400z | 05 Jan | [16171 20501 33832]   |   | AnonUS                | TUE    |
|                       | 1400z | 06 Jan | [15462 27881 41222]   |   | AnonUS                | WED    |
|                       | 1400z | 07 Jan | Hum only  |   | AnonUS                | THU    |
|                       | 1400z | 08 Jan | [24421 36751 40272]   |   | AnonUS                | FRI    |
|                       | 1400z | 09 Jan | [18262 22501 35022]   | Usual weekend call-up   | AnonUS                | SAT    |
|                       | 1400z | 11 Jan | [25501 38822 52251]   |   | AnonUS                | MON    |
|                       | 1400z | 12 Jan | [23221 35652 48071]   |   | AnonUS                | TUE    |
|                       | 1400z | 14 Jan | [35742 58171 62502]   |   | AnonUS                | THU    |
|                       | 1400z | 18 Jan | [84072 07311 11732]   |   | AnonUS                | MON    |
|                       | 1400z | 20 Jan | [82071 03711 17732]   |   | AnonUS                | WED    |
|                       | 1400z | 21 Jan | Hum only, no Morse  |   | AnonUS                | THU    |
|                       | 1400z | 22 Jan | [72652 84081 07411]   |   | AnonUS                | FRI    |
|                       |       | 1400z  | 23 Jan  | [18262 22501 35022]   | Usual weekend call-up | AnonUS |
|                       | 1400z | 24 Jan | [18262 22501 35022]   | Usual weekend call-up   | AnonUS                | SUN    |
|                       | 1400z | 25 Jan | [17511 28241 32562]   |   | AnonUS                | MON    |
| 8135                  | 2300z | 05 Jan | [55012 67331 81661]   |   | AnonUS                | TUE    |
|                       | 2300z | 07 Jan | [86614 17851 36551 50640 83212 86704]   | HM01 Expected M08a in this time slot                                  | AnonUS                | THU    |
|                       | 2300z | 08 Jan | [00651 13172 36411]   | HM01 mixing with the Morse  | AnonUS                | FRI    |
|                       | 2300z | 12 Jan | [74481 85121 01241]   |   | AnonUS                | TUE    |
|                       | 2300z | 14 Jan | Up late in progress   |   | AnonUS                | THU    |
|                       | 2300z | 15 Jan | [15262 28502 32021]   |   | AnonUS                | FRI    |
|                       | 2300z | 17 Jan | [18262 22501 35022]   | Usual weekend call-ups  | AnonUS                | SUN    |
|                       | 2300z | 21 Jan | [42332 65751 78181]   | Transmitter problems? Morse turning to a crackle on several occasions | AnonUS                | THU    |
|                       | 2300z | 22 Jan | [36211 40532 53861]   |   | AnonUS                | FRI    |
|                       | 2300z | 24 Jan | [18262 22501 35022]   | Usual weekend call-ups  | AnonUS                | SUN    |
|                       | 2300z | 28 Jan | Characteristic hum on with a few unintelligible words from a SS/OM. Presume given the absence of transmissions for 2 days now there are transmitter or Morse problems |   | AnonUS                | THU    |
|                       | 2300z | 30 Jan | Transmitter check but no Morse followed   |   | AnonUS                | SAT    |
| <b>February 2016:</b> |       |        |   |   |                       |        |
| 7554                  | 2000z | 04 Feb | [54801 67222 71652]   |   | AnonUS                | THU    |
|                       | 2000z | 08 Feb | Carrier but no Morse  |   | AnonUS                | MON    |
|                       | 2000z | 09 Feb | [74372 87601 01031]   |   | AnonUS                | TUE    |
|                       | 2000z | 18 Feb | [87512 00842 13261]   |   | AnonUS                | THU    |
|                       | 2000z | 23 Feb | [62282 85621 08042]   |   | AnonUS                | TUE    |
|                       | 2000z | 28 Feb | [18262 22501 35022]   | Usual weekend call-ups  | AnonUS                | SUN    |
| 8009                  | 2300z | 01 Feb | Up late in progress   |   | AnonUS                | MON    |
|                       | 2300z | 08 Feb | Came up in progress at 2259z  |   | AnonUS                | MON    |
|                       | 2300z | 10 Feb | Characteristic Cuban hum but no Morse   |   | AnonUS                | WED    |
|                       | 2300z | 13 Feb | [18262 22501 35022]   | Usual weekend call-ups  | AnonUS                | SAT    |
|                       | 2300z | 16 Feb | Up in progress at 2259z on wrong frequency. Switched to correct frequency by 2302z  |   | AnonUS                | TUE    |
|                       | 1400z | 17 Feb | Up in progress at 2300z   |   | AnonUS                | WED    |
|                       | 1400z | 22 Feb | [58642 62071 75401]   |   | AnonUS                | MON    |
|                       | 2300z | 29 Feb | Message in progress at 2258z  |   | AnonUS                | MON    |
| 8096                  | 1400z | 02 Feb | [52772 65101 78431]   |   | AnonUS                | TUE    |
|                       | 1400z | 03 Feb | Up late in progress   |   | AnonUS                | WED    |
|                       | 1400z | 05 Feb | [46272 - - - - - - - -]   | Up late with 1st call-up repeated 5 times                             | AnonUS                | FRI    |
|                       | 1400z | 08 Feb | [18752 22181 45422]   |   | AnonUS                | MON    |
|                       | 1400z | 09 Feb | [68231 71662 84081]   |   | AnonUS                | TUE    |
|                       | 1400z | 10 Feb | [21051 44372 67711]   |   | AnonUS                | WED    |
|                       | 1400z | 14 Feb | [18262 22501 35022]   | Usual weekend call-ups  | AnonUS                | SUN    |
|                       | 1400z | 15 Feb | Transmitter check but no Morse  |   | AnonUS                | MON    |
|                       | 1400z | 17 Feb | [17461 21882 06731]   | Transmitter problems  | AnonUS                | WED    |
|                       | 1400z | 18 Feb | [70772 83211 05532]   |   | AnonUS                | THU    |
|                       | 1400z | 22 Feb | [04102 17521 21852]   |   | AnonUS                | MON    |
|                       | 1400z | 23 Feb | [66251 77881 81312]   |   | AnonUS                | TUE    |
|                       | 1400z | 29 Feb | [68822 72251 05572]   |   | AnonUS                | MON    |
| 8135                  | 2300z | 02 Feb | Up late in progress   |   | AnonUS                | TUE    |
|                       | 2300z | 04 Feb | [61851 74272 87611]   |   | AnonUS                | THU    |
|                       | 2300z | 05 Feb | [56871 60212 83632]   |   | AnonUS                | FRI    |
|                       | 2300z | 09 Feb | [22182 33722 46251]   |   | AnonUS                | TUE    |
|                       | 2300z | 11 Feb | Up late in progress   |   | AnonUS                | THU    |
|                       | 2300z | 14 Feb | [18262 22501 35022]   | Usual weekend call-ups  | AnonUS                | SUN    |

2300z 19 Feb [13341 26762 40102]  
 2300z 23 Feb [11701 24132 37452]

AnonUS  
 AnonUS

FRI  
 TUE

**Call-up Number Sequence Analysis**

Analysis of call-up spacings. (Spacing between the 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> digits of the call-ups). Example **43561 66881 78322 21 32 34 23**

As with previous observations the M08a call-ups follow a pattern between the three numbers. (See Issue 81 - Mar 2014 for full details)

|                               |                               |                               |
|-------------------------------|-------------------------------|-------------------------------|
| 40542 53062 66301 11 33 43 23 | 84072 07311 11732 11 33 34 32 | 74372 87601 01031 11 33 33 23 |
| 86782 00111 13442 11 33 33 23 | 64502 85332 08651 21 13 73 32 | 22182 33722 46251 11 13 64 33 |
| 16171 20501 33832 11 33 43 23 | 82071 03711 17732 11 14 70 32 | 21051 44372 67711 22 33 34 23 |
| 25401 38822 42251 11 33 43 23 | 38131 42552 55881 11 33 43 23 | 06731 17461 21882 11 13 64 32 |
| 55012 67331 81661 12 23 33 23 | 42332 65751 78181 21 33 43 23 | 70772 83211 05532 11 32 43 32 |
| 84301 06622 20151 12 23 34 23 | 72652 84081 07411 11 23 34 32 | 87512 00842 13261 11 23 33 32 |
| 02252 15671 28011 11 33 43 23 | 36211 40532 53861 11 33 33 23 | 13341 26762 40102 12 33 43 23 |
| 24421 36751 40272 11 23 34 32 | 17511 28241 32562 11 13 73 32 | 04102 17521 21852 11 33 43 23 |
| 00651 13172 36411 12 33 43 23 | 68862 82201 05521 21 33 33 32 | 58642 62071 75401 11 33 34 32 |
| 23221 35652 48071 11 23 43 32 | 52772 65101 78431 11 33 33 23 | 66251 77881 81312 11 13 64 32 |
| 36661 40002 53321 11 33 33 32 | 54801 67222 71652 11 33 33 23 | 62282 85621 08042 21 33 43 32 |
| 74481 85121 01241 11 15 61 32 | 61851 74272 87611 11 33 34 23 | 11701 24132 37452 11 33 33 32 |
| 35742 58171 62502 21 33 34 32 | 56871 60212 83632 12 33 34 32 | 68822 72251 05572 12 33 33 32 |
| 41011 54342 67761 11 33 34 32 | 18752 22181 45422 12 23 33 33 |                               |
| 15262 28502 32021 11 33 34 32 | 68231 71662 84081 11 23 43 32 |                               |

*Courtesy AnonUS*

We know that the weekend call-ups are always the same so checked some of the transmissions and confirmed that the message sent is always the same too. Whether this is for training purposes or for some other reason is unknown. By analyzing several transmissions we were able to eliminate any mistakes caused by fading or other issues. The messages transmitted in full are shown below.

18262 22501 35022 (R3 Minutes)

18262 18262 18262 18262 18262 BT BT BT

67153 41103 83237 44567 37012 54606 61875 42145 74333 08040  
 12860 45037 87327 14217 14170 63515 08148 16648 37024 55347  
 15728 51182 03531 44117 37125 05778 16624 67305 37676 42785  
 71785 15735 72832 14351 13574 54531 31660 54651 27047 04381  
 65523 46125 30474 13834 67041 15728 47563 08883 05656 50473  
 83782 26385 31034 63104 37744 07104 48744 74523 11022 66521  
 37343 27078 43762 56642 72404 41126 11164 25734 67128 66324  
 86827 58146 16321 20108 78558 30071 48323 37177 26103 17552  
 23367 65834 43565 02476 04222 18720 46571 18433 13781 22646  
 01173 00324 24155 18134 60804 04817 70501 34372 57142 41836  
 85857 60146 07600 21370 37660 11666 73576 40842 85530 80714  
 82742 35735 71372 12545 23846 47161 74023 34406 58750 31324  
 11603 70675 10240 31777 36110 52148 81845 17851 88153 58825  
 87137 85562 75123 81636 87462 37373 41786 08257 34541 00354  
 88151 67742 61514 08637 77346 76458 40768 71383 43312 75410

AR AR AR *Courtesy AnonUS*

22501 22501 22501 3501 22501 BT BT BT

68848 56241 55003 06300 75051 52537 20808 88334 53335 54867  
 85468 87275 22676 07232 33017 15388 25626 74715 44640 68285  
 10702 41148 07711 32276 01834 18502 16102 82504 64504 21640  
 06833 32162 32134 38800 64066 10111 86701 45582 73801 78475  
 28187 28620 18822 75515 23264 67865 85220 55707 40612 38236  
 30034 75603 62242 64411 41064 51320 63782 51256 55073 73170  
 81887 01748 05230 25026 40465 12817 23562 34348 35357 71388  
 55270 45613 12247 72658 57715 04686 34835 05304 63332 80651  
 31510 37673 50435 36445 11252 46014 47767 10314 23124 62178  
 28768 82847 73677 55786 40763 41307 76713 07726 48561 07447  
 86525 15046 35400 46313 10081 83626 25122 51643 45181 38026  
 57220 64415 15635 80710 72865 71343 04103 42300 56237 76443  
 57751 84438 28373 42601 60372 77347 88602 57168 56571 27604  
 04244 65784 28570 25414 71301 80088 06024 82130 48155 52107  
 20518 24770 28041 01348 57135 11447 33871 83454 15778 22206

AR AR AR *Courtesy AnonUS*

35022 35022 35022 35022 35022 BT BT BT

65453 58823 51471 22451 31866 27181 35622 37621 28844 14528  
 65800 23114 04752 04601 17403 25482 74877 15445 76558 20347  
 46856 61487 86510 47730 01182 72172 88888 78015 74487 63047  
 87603 65482 04761 84242 11780 36888 07862 50832 31173 03884  
 31513 88333 50307 60105 56604 60353 63787 84135 78068 52766  
 63314 61062 16162 35388 62075 28111 25076 56522 16277 37380  
 63436 03771 70170 41423 88708 78376 35826 24633 34262 43412  
 07732 74688 13830 81005 26328 47537 38677 32811 40780 64583  
 68334 75841 34434 05086 45885 02470 53811 72413 10314 88868  
 47176 12436 78470 42440 16108 23830 40607 03727 50242 08371  
 63335 15340 47383 74345 24102 60068 80347 22074 07424 46532  
 48418 80153 33251 68104 35460 08203 22043 14063 28665 66478  
 70174 53068 03836 87843 72553 27514 16757 58132 78615 50118  
 75861 38835 27738 44447 26801 51048 03657 23376 86425 21347  
 35727 48882 71546 72876 44280 34517 47634 58776 28682 64536

AR AR AR SK *Courtesy AnonUS*

**M12** IB ICW, some MCW / CW, short 0. Reuses many freqs year on year.

New ID's may be only for the month/sched shown, but not necessarily unknown . The reason for their reuse, some after long periods of time, is unknown.

As last year, many of the regular late M12 scheds were missing, due to the Russian 10 day New Year holiday, although there were some scheds still in use, particularly those early ones. Of the 14 transmissions logged from 01 - 09 Jan, all were null messages.

M12 msgs returned to full operation on Monday 11 Jan. Given the same occurs over the Xmas holidays too, we can only speculate that these missing scheds are not of immediate importance & perhaps carry routine traffic – if, indeed they carry any traffic at all.

**Asiatic M12 Schedules**

|                   |                 |        |                 |                 |                   |                          |    |     |
|-------------------|-----------------|--------|-----------------|-----------------|-------------------|--------------------------|----|-----|
| 15826/14576/13416 | 0020/0040/0100z | 06 Jan | 854 000         | Strong/Weak     | via Hong Kong SDR |                          | BR | WED |
|                   | 0020/0040/0100z | 09 Jan | 854 000         | Strong/Fair     | via Hong Kong SDR |                          | BR | SAT |
|                   | 0020/0040/0100z | 16 Jan | 854 000         | Weak/Good       | via Hong Kong SDR |                          | BR | WED |
|                   | 0020/0040/0100z | 23 Jan | 854 1 (214 53)  | 06808 50800...  | 37533 69734       | Strong via Hong Kong SDR | BR | SAT |
|                   | 0020/0040/0100z | 30 Jan | 854 000         | Strong/Fair     | via Hong Kong SDR |                          | BR | SAT |
| 18576/17436/---   | 0020/0040/0100z | 06 Feb | 548 000         | Strong          | via Hong Kong SDR |                          | BR | SAT |
|                   | 0020/0040/0100z | 10 Feb | 548 000         | Strong          | via Hong Kong SDR |                          | BR | WED |
|                   | 0020/0040/0100z | 17 Feb | 548 1 (386 125) | 09513 14403.... |                   | Strong via Hong Kong SDR | BR | WED |
|                   | 0020/0040/0100z | 20 Feb | 548 1 (386 125) | 09513 14403.... |                   | Strong via Mojave SDR    | BR | SAT |
|                   | 0020/0040/0100z | 27 Feb | 548 000         |                 |                   |                          | BR | SAT |

**European M12 Logs**

**January 2016:**

**New scheds in bold type**

|                   |                 |        |                   |                                       |                  |  |                  |     |
|-------------------|-----------------|--------|-------------------|---------------------------------------|------------------|--|------------------|-----|
| 4457/5157/---     | 0530/0550/0610  | 04 Jan | 417 000           |                                       |                  |  | BR               | MON |
|                   | 0530/0550/0610  | 11 Jan | 417 000           |                                       |                  |  | BR               | MON |
|                   | 0530/0550/0610  | 18 Jan | 417 000           |                                       |                  |  | BR               | MON |
|                   | 0530/0550/0610z | 25 Jan | 417 000           |                                       |                  |  | HFD              | MON |
| 5284/5784/---     | 0730/0750/0810z | 07 Jan | 277 000           |                                       |                  |  | E.SMITH          | THU |
|                   | 0730/0750/0810z | 14 Jan | 277 000           |                                       |                  |  | E.SMITH/HFD/tiNG | THU |
|                   | 0730/0750/0810z | 21 Jan | 277 000           |                                       |                  |  | BR               | THU |
|                   | 0730/0750/0810z | 28 Jan | 277 000           |                                       |                  |  | E.SMITH          | THU |
| 5361/4461/4061    | 2200/20/40z     | 06 Jan | 340 000           |                                       |                  |  | BR               | WED |
|                   | 2200/20/40z     | 13 Jan | 340 000           | Good                                  |                  |  | HFD/JkC          | WED |
|                   | 2200/20/40z     | 20 Jan | 340 1 (5637 115)  | 15090 70091 ... 60027 00421 000       | Good             |  | JkC              | WED |
|                   | 2200/20/40z     | 27 Jan | 340 000           |                                       |                  |  | BR               | WED |
| 5838/7438/9238    | 0600/20/40z     | 02 Jan | 842 000           |                                       |                  |  | BR               | SAT |
|                   | 0600/20/40z     | 09 Jan | 842 000           |                                       |                  |  | E.SMITH/HFD      | SAT |
|                   | 0600/20/40z     | 16 Jan | 842 000           |                                       |                  |  | E.SMITH          | SAT |
|                   | 0600/20/40z     | 23 Jan | 842 1 (5837 115)  |                                       |                  |  | BR               | SAT |
|                   | 0600/20/40z     | 30 Jan | 842 000           |                                       |                  |  | E.SMITH          | SAT |
| 7692/6792/5892    | 1310/30/50z     | 07 Jan | 678 000           | Good                                  |                  |  | JkC              | THU |
|                   | 1310/30/50z     | 09 Jan | 678 000           |                                       |                  |  | BR               | SAT |
|                   | 1310/30/50z     | 14 Jan | 678 1 (9307 161)  | 74144 79256....                       |                  |  | BR               | THU |
|                   | 1310/30/50z     | 16 Jan | 678 1 (9307 161)  | 74144 79256....                       |                  |  | BR/HFD           | SAT |
|                   | 1310/30/50z     | 21 Jan | 678 000           | Good                                  |                  |  | JkC              | THU |
|                   | 1310/30/50z     | 23 Jan | 678 000           |                                       |                  |  | BR               | SAT |
|                   | 1310/30/50z     | 28 Jan | 678 1 (510 161)   | 98623 83122 ..... 31136 99922 000 000 |                  |  | E.SMITH          | THU |
|                   | 1310/30/50z     | 30 Jan | 678 1 (510 161)   | 98623 83122 ..... 31136 99922 000 000 |                  |  | E.SMITH          | SAT |
| 8047/6802/5788    | 1800/20/40z     | 11 Jan | 463 1 (4146 140)  | NRH on 8047kHz                        |                  |  | BR               | MON |
|                   | 1900/20/40z     | 13 Jan | 463 1 (2457 145)  | 02246 53743 ... 61618 41705 000       | Weak             |  | HFD/JkC          | WED |
|                   | 1800/20/40z     | 18 Jan | 463 1 (7362 148)  |                                       |                  |  | BR               | MON |
|                   | 1900/20/40z     | 20 Jan | 463 1 (5974 142)  | 91876 46579 ... 61101 79490 000       | Fair             |  | JkC              | WED |
|                   | 1800/20/40z     | 25 Jan | 463 1 (3859 149)  |                                       |                  |  | BR               | MON |
|                   | 1900/20/40z     | 27 Jan | 463 1 (6196 142)  | 85994 31034 ... 10329 09624 000       | V.weak/Weak/Good |  | JkC              | WED |
| 9176/7931/6904    | 1900/20/40z     | 11 Jan | 257 1 (8523 88)   |                                       |                  |  | BR               | MON |
|                   | 1800/20/40z     | 13 Jan | 257 1 (1896 143)  | 10535 00111 ... 22026 62115 000       | Weak             |  | HFD/JkC          | WED |
|                   | 1900/20/40z     | 18 Jan | 257 1 (5433 84)   |                                       |                  |  | BR               | MON |
|                   | 1800/20/40z     | 20 Jan | 257 1 (8722 149)  | 38414 22803 ... 59545 46714 000       | Fair             |  | JkC              | WED |
|                   | 1900/20/40z     | 25 Jan | 257 1 (3 .20 90?) | Weak                                  |                  |  | BR               | MON |
|                   | 1800/20/40z     | 27 Jan | 257 1 (7699 132)  | 80414 99743 ... 76358 59999 000       | Weak/Fair/Good   |  | JkC              | WED |
| 10343/9264/8116   | 1930/1950/2010z | 12 Jan | NRH               |                                       |                  |  | BR               | TUE |
|                   | 1800/20/40z     | 14 Jan | 124 1 (9321 146)  | 92232 22378 ... 21849 52407 000       | V.Weak/Weak      |  | HFD/JkC          | THU |
|                   | 1930/1950/2010z | 19 Jan | 124 1 (2539 95)   | 47983 73460 ... 26272 95087 000       | Fair             |  | HFD/JkC          | TUE |
|                   | 1930/1950/2010z | 26 Jan | 124 1 (8652 105)  | NRH on 10343kHz                       |                  |  | BR               | TUE |
|                   | 1800/20/40z     | 28 Jan | 124 1 (9334 143)  | 82458 77526 ... 03141 30333 000       | V.weak / Weak    |  | JkC              | THU |
| 12205/13559/14728 | 1100/20/40z     | 11 Jan | 973 1 (8620 134)  |                                       |                  |  | BR/HFD           | MON |
|                   | 1100/20/40z     | 18 Jan | 973 1 (7130 114)  | 72456 70073...                        |                  |  | BR               | MON |
|                   | 1100/20/40z     | 25 Jan | 973 1 (4430 142)  | 58025 47068...                        |                  |  | BR/Schorschi     | MON |

|                        |                    |               |                  |                                     |              |                      |     |
|------------------------|--------------------|---------------|------------------|-------------------------------------|--------------|----------------------|-----|
| 12162/11566/10711      | 1700/20/40z        | 14 Jan        | 546 1 (4580 85)  | 46150 94623.... 0842 . 22297 000    | Weak         | HFD/JkC              | THU |
|                        | 1700/20/40z        | 21 Jan        | 546 1 (5425 85)  | 67976 18279 ... [fades to nil]      | Weak/ V.weak | JkC                  | THU |
|                        | 1700/20/40z        | 28 Jan        | 546 1 (6392 87)  |                                     |              | BR/JkC               | THU |
| 13369/14669/15969      | 1010/30/50z        | 07 Jan        | 369 000          | Strong                              |              | E.SMITH/HFD/tiNG     | THU |
|                        | 1010/30/50z        | 10 Jan        | 369 000          |                                     |              | BR                   | SUN |
|                        | 1010/30/50z        | 14 Jan        | 369 1 (5953 67)  | 00867 88253 ... 74070 79517 000 000 |              | AB/E.SMITH/Schorschi | THU |
|                        | 1010/30/50z        | 17 Jan        | 369 1 (5953 67)  |                                     |              | BR                   | SUN |
|                        | 1010/30/50z        | 21 Jan        | 369 000          |                                     |              | BR                   | THU |
|                        | 1010/30/50z        | 24 Jan        | 369 000          | Good                                |              | JkC                  | SUN |
|                        | 1010/30/50z        | 28 Jan        | 369 1 (7840 67)  | 92731 50785 ... 38998 34651 000 000 |              | E.SMITH              | THU |
|                        | 1010/30/50z        | 31 Jan        | 369 1 ( 7840 67) | 92731 50785...                      |              | BR                   | SUN |
| 13386/12189/11491      | 1500/20/40z        | 14 Jan        | 725 1 (6971 120) | 33326 88736 ... 21455 65494 000 000 |              | AB/HFD/JkC           | THU |
|                        | 1500/20/40z        | 21 Jan        | 725 1 (3248 147) | 71490 93000 ... 62056 90468 000     | Good         | JkC                  | THU |
|                        | 1500/20/40z        | 28 Jan        | 725 1 (8072 132) | 63348 37739 ... 03654 26946 000     | Good         | JkC                  | THU |
| <b>14687</b>           | <b>1520z</b>       | <b>01 Jan</b> | <b>963 000</b>   | <b>Fair</b>                         |              | JkC                  | FRI |
| <b>15987/14687/---</b> | <b>1500/20/40z</b> | 08 Jan        | 963 000          | Good                                |              | HFD/JkC              | FRI |
|                        | 1500/20/40z        | 15 Jan        | 963 000          | Fair                                |              | E.SMITH/JkC          | FRI |
|                        | 1500/20/40z        | 22 Jan        | 963 000          |                                     |              | BR                   | FRI |
|                        | 1500/20/40z        | 29 Jan        | 963 000          | Good                                |              | JkC                  | FRI |
| <b>16324/18124/---</b> | <b>0710/30/50z</b> | <b>06 Jan</b> | <b>314 000</b>   | <b>Fair/Weak</b>                    |              | BR                   | WED |
|                        | 0710/30/50z        | 13 Jan        | 314 000          |                                     |              | E.SMITH              | WED |
|                        | 0710/30/50z        | 20 Jan        | 314 000          |                                     |              | AB                   | WED |
|                        | 0710/30/50z        | 27 Jan        | 314 000          |                                     |              | BR/Schorschi         | WED |

**M12 13386/12189/11491kHz 2000/20/40z 14 Jan16**

369 1 (R2m) 5953 67 5953 67  
00867 88253 14340 43555 17146 76339 93456 94528 70880 68905  
08894 81937 11752 77819 07412 86054 18459 67228 28552 18123  
08893 27343 74247 20483 31426 99873 39642 55108 71834 62845  
59390 84305 92869 90961 23844 27862 15203 78536 20556 52011  
02433 76268 77895 69266 84393 17980 72123 95027 35860 92873  
46265 39026 71676 09622 46513 85405 35126 93950 16210 54371  
34723 66214 30353 36838 65467 74070 79517

000 000

*Courtesy AB/E.SMITH*

**February 2016:**

|                 |                 |        |                           |   |      |             |     |
|-----------------|-----------------|--------|---------------------------|---|------|-------------|-----|
| 4617/5317/---   | 0530/0550/0610z | 01 Feb | 638 000                   |   |      | E.SMITH     | MON |
|                 | 0530/0550/0610z | 08 Feb | 638 000                   |   |      | E.SMITH/HFD | MON |
|                 | 0530/0550/0610z | 15 Feb | 638 000                   |   |      | E.SMITH     | MON |
|                 | 0530/0550/0610z | 22 Feb | 638 000                   |   |      | E.SMITH     | MON |
|                 | 0530/0550/0610z | 29 Feb | 638 000                   |   |      | BR          | MON |
| 5429/4629/4029  | 2200/20/40z     | 03 Feb | 460 000                   |   |      | BR          | WED |
|                 | 2200/20/40z     | 10 Feb | 460 1 ( <b>4076 161</b> ) | 67759 44741....                         |      | BR          | WED |
|                 | 2200/20/40z     | 17 Feb | 460 1 (6706 151)          | 35947 39569 ... 04059 22710 000         | Weak | JkC         | WED |
|                 | 2200/20/40z     | 24 Feb | 460 000                   |   |      | BR          | WED |
| 5884/56884/---  | 0730/0750/0810z | 04 Feb | 888 000                   |   |      | BR          | THU |
|                 | 0730/0750/0810z | 11 Feb | 888 000                   |   |      | E.SMITH     | THU |
|                 | 0730/0750/0810z | 18 Feb | 888 000                   |   |      | E.SMITH/HFD | THU |
|                 | 0730/0750/0810z | 25 Feb | 888 000                   |   |      | E.SMITH     | THU |
| 7637/9137/10237 | 0600/20/40z     | 06 Feb | 612 000                   |   |      | E.SMITH/HFD | SAT |
|                 | 0600/20/40z     | 13 Feb | 612 1 ( <b>4076 161</b> ) | 67759 44741 ..... 97869 15040 000 000   |      | E.SMITH     | SAT |
|                 | 0600/20/40z     | 20 Feb | 612 1 (6706 151)          | 35947 39569 ..... 04059 22810 000 000   |      | E.SMITH     | SAT |
|                 | 0600/20/40z     | 27 Feb | 612 000                   |   |      | BR          | SAT |
| 8047/6802/5788  | 1800/20/40z     | 01 Feb | 463 1 (3742 142)          | 77909 90713....                         |      | BR/HFD      | MON |
|                 | 1900/20/40z     | 03 Feb | 463 1 (5367 136)          | 55252 22360 ..... 61306 08909 000 000   | Fair | E.SMITH     | WED |
|                 | 1800/20/40z     | 08 Feb | 463 1 (2630 140)          | 68070 77613....                         |      | BR          | MON |
|                 | 1900/20/40z     | 10 Feb | 463 1 (9396 131)          | 37141 86565....                         |      | BR          | WED |
|                 | 1800/20/40z     | 15 Feb | 463 1 (2254 141)          |   |      | BR          | MON |
|                 | 1900/20/40z     | 17 Feb | 463 1 (1749 140)          |   |      | BR          | WED |
|                 | 1800/20/40z     | 22 Feb | 463 1 (7170 146)          | 44380 09213....                         |      | BR          | MON |
|                 | 1900/20/40z     | 24 Feb | 463 1 (2708 131)          | 03006 64531.... 17096 07734 000         | Good | JkC         | WED |
| 9162/8062/7462  | 1310/30/50z     | 04 Feb | 104 000                   |   |      | E.SMITH/HFD | THU |
|                 | 1310/30/50z     | 06 Feb | 104 000                   |   |      | E.SMITH     | SAT |
|                 | 1310/30/50z     | 11 Feb | 104 1 (9944 141)          | 99687 56191 ..... 25917 11137 000 000   |      | E.SMITH     | THU |
|                 | 1310/30/50z     | 13 Feb | 104 1 (9944 141)          | 99687 56191 ..... 25917 11137 000 000   |      | E.SMITH     | SAT |
|                 | 1310/30/50z     | 18 Feb | 104 000                   |   |      | E.SMITH     | THU |
|                 | 1310/30/50z     | 20 Feb | 104 000                   |   |      | E.SMITH     | SAT |
|                 | 1310/30/50z     | 25 Feb | 104 000                   | Strong L.F. Intermittent QRM on 8062kHz |      | E.SMITH/JkC | THU |
|                 | 1310/30/50z     | 27 Feb | 104 000                   |   |      | BR          | SAT |

|                        |                    |               |                         |                        |                             |                    |  |             |     |
|------------------------|--------------------|---------------|-------------------------|------------------------|-----------------------------|--------------------|--|-------------|-----|
| 9176/7931/6904         | 1900/20/40z        | 01 Feb        | 257 1 (4762 81)         |                        |                             |                    |  | BR/HFD      | MON |
|                        | 1800/20/40z        | 03 Feb        | 257 1 (4311 148)        | 57249 18981 .....      | 46378 95054 000 000         | Fair               |  | E.SMITH     | WED |
|                        | 1900/20/40z        | 08 Feb        | 257 1 (5185 82)         | 82758 35844....        |                             |                    |  | BR          | MON |
|                        | 1800/20/40z        | 10 Feb        | 257 1 (3710 148)        | 14775 00125....        |                             |                    |  | BR          | WED |
|                        | 1900/20/40z        | 15 Feb        | 257 1 (1969 81)         |                        |                             |                    |  | BR          | MON |
|                        | 1800/20/40z        | 17 Feb        | 257 1 (1492 131)        | 19623 05484 ...        | 91788 25625 000             | Good               |  | JkC         | WED |
|                        | 1900/20/40z        | 22 Feb        | 257 1 (6914 84)         | 82726 65704....        |                             |                    |  | BR          | MON |
|                        | 1800/20/40z        | 24 Feb        | 257 1 (5353 145)        | 87972 58106 ...        | 70563 54761 000             | Good               |  | JkC         | WED |
| <b>9176</b>            | <b>1900z</b>       | <b>25 Feb</b> | <b>257 1 (7641 54)</b>  | <b>01936 53612 ...</b> | <b>60664 45858 000</b>      | <b>Good</b>        |  | JkC         | THU |
|                        | <b>1800/20/40z</b> | <b>29 Feb</b> | <b>257 1 (1394 149)</b> | <b>83429 47454....</b> |                             |                    |  | BR          | MON |
|                        | 1900/20/40z        | 29 Feb        | 257 1 (2657 82)         | 01704 58092....        |                             |                    |  | BR          | MON |
| 10343/9264/8116        | 1930/1950/2010z    | 02 Feb        | 124 1 (8173 109)        |                        |                             |                    |  | BR          | TUE |
|                        | 1800/20/40z        | 04 Feb        | 124 1 (1450 150)        | 42272 80458....        |                             |                    |  | BR          | THU |
|                        | 1930/1950/2010z    | 09 Feb        | 124 1 (6839 95)         | 0826 . . 5070....      | Poor sigs - NRH on 10343kHz |                    |  | BR          | TUE |
|                        | 1800/20/40z        | 11 Feb        | 124 1 (1198 134)        | 06 .54 59153....       | Weak                        |                    |  | BR          | THU |
|                        | 1930/1950/2010z    | 16 Feb        | 124 1 (4163 102)        | 33992 35449 ....       | 70395 91264 000             | V.weak/ Weak/ Fair |  | JkC         | TUE |
|                        | 1800/20/40z        | 18 Feb        | 124 1 (6019 148)        | 14908 56713.....       | 71166 51539 000             | Good               |  | JkC         | THU |
|                        | 1930/1950/2010z    | 23 Feb        | 124 1 (8724 97)         | 15766 51561....        |                             |                    |  | BR          | TUE |
|                        | 1800/20/40z        | 25 Feb        | 124 1 (3661 140)        | 26032 80439.....       | 24204 14750 000 000         |                    |  | AB/JkC      | THU |
| 12205/13559/14728      | 1100/20/40z        | 01 Feb        | 973 1 (2320 121)        | 40450 26393 .....      | 78406 06047 000 000         |                    |  | E.SMITH     | MON |
|                        | 1100/20/40z        | 08 Feb        | 973 1 (4644 113)        | 60913 53299 .....      | 17243 79716 000 000         |                    |  | AB/E.SMITH  | MON |
|                        | 1100/20/40z        | 15 Feb        | 973 1 (9552 122)        | 84089 61287 .....      | 94152 04881 000 000         |                    |  | E.SMITH     | MON |
|                        | 1100/20/40z        | 22 Feb        | 973 1 (1431 136)        | 02548 82724 .....      | 91436 93931 000 000         |                    |  | E.SMITH     | MON |
|                        | 1100/20/40z        | 29 Feb        | 973 1 (5780 135)        | 21061 58208....        |                             |                    |  | BR          | MON |
| 12162/11566/10711      | 1700/20/40z        | 04 Feb        | 546 1 (2046 83)         | 34576 67089....        |                             |                    |  | BR/HFD      | THU |
|                        | 1700/20/40z        | 18 Feb        | 546 1 (8569 85)         | 71412 99206 .....      | 91189 72573 000             | Fair               |  | JkC         | THU |
|                        | 1700/20/40z        | 25 Feb        | 546 1 (1408 87)         | 99156 54402 .....      | 57065 85509 000 000         |                    |  | AB/JkC      | THU |
| 13386/12189/11491      | 1500/20/40z        | 04 Feb        | 725 1 (4401 133)        | 02132 84903 .....      | 47108 15942 000 000         |                    |  | E.SMITH     | THU |
|                        | 1500/20/40z        | 18 Feb        | 725 1 (8637 117)        | 87257 09173 .....      | 14663 77417 000             | Good               |  | E.SMITH/JkC | THU |
|                        | 1500/20/40z        | 25 Feb        | 725 1 (6073 133)        | 13967 13480 .....      | 75179 25783 000 000         |                    |  | AB/JkC      | THU |
| 13569/14869/16269      | 1010/30/50z        | 04 Feb        | 582 000                 |                        |                             |                    |  | E.SMITH/HFD | THU |
|                        | 1010/30/50z        | 07 Feb        | 582 000                 |                        |                             |                    |  | BR          | SUN |
|                        | 1010/30/50z        | 11 Feb        | 582 1 (495 109)         | 19550 67230 .....      | 14699 11171 000 000         |                    |  | E.SMITH     | THU |
|                        | 1010/30/50z        | 18 Feb        | 582 1 (7861 73)         | 22433 47101 .....      | 38002 28420 000 000         |                    |  | E.SMITH     | THU |
|                        | 1010/30/50z        | 21 Feb        | 582 1 (7861 73)         | 22433 47101....        |                             |                    |  | BR          | SUN |
|                        | 1010/30/50z        | 25 Feb        | 582 000                 |                        |                             |                    |  | E.SMITH     | THU |
|                        | 1010/30/50z        | 27 Feb        | 582 000                 |                        |                             |                    |  | BR          | SUN |
| <b>16314/14814/---</b> | <b>1500/20/40z</b> | <b>05 Feb</b> | <b>384 000</b>          |                        |                             |                    |  | E.SMITH     | FRI |
|                        | 1500/20/40z        | 19 Feb        | 384 000                 | Good                   |                             |                    |  | E.SMITH/JkC | FRI |
| <b>18064/19464/---</b> | <b>0710/30/50z</b> | <b>10 Feb</b> | <b>049 000</b>          |                        |                             |                    |  | E.SMITH     | WED |
|                        | 0710/30/50z        | 17 Feb        | 049 000                 | Weak                   |                             |                    |  | E.SMITH     | WED |
|                        | 0710/30/50z        | 24 Feb        | 049 000                 |                        |                             |                    |  | E.SMITH     | WED |

#### M14 IA MCW / ICW Short 0

The technical problems that M14 was experiencing at the end of 2015 continue into the new year. Most of the transmissions were sent without problems, but on 30 January Ary (AB) logged an 0800z message that had both call-up errors , a repeat error in the message & several botched attempts at repeating the message. Ary's transcription is included below.

On 16 February, Edd (E.SMITH) logged a 128 group message that was also suffering from severe problems during the call-up, where a 361 call became 61 repeated for two minutes with an odd random figure additionally sent. The = = was also missing, although the message does appear to have been successfully sent.

#### January 2016:

|      |              |        |                |   |                   |                      |     |      |     |
|------|--------------|--------|----------------|---|-------------------|----------------------|-----|------|-----|
| 3721 | 1600 - 1604z | 19 Jan | 361 00000      | Weak  |                   |                      |     | JkC  | TUE |
| 4636 | 1820 - 1827z | 26 Jan | 186 (569 15) = | 11090 38276 ...   | 55176 28196 00000 | Good                 |     | JkC  | TUE |
| 4761 | 1920 - 1928z | 13 Jan | 748 (569 15) = | 11090 38276 ...   | 55176 28196 00000 | Good                 |     | JkC  | WED |
|      | 1920 - 1927z | 27 Jan | 748 (569 15) = | 11090 38276 ...   | 55176 28196 00000 | Good                 |     | JkC  | WED |
| 4975 | 1800 - 1804z | 01 Jan | 382 00000      | Good  |                   |                      |     | JkC  | FRI |
|      | 1800 - 1804z | 15 Jan | 382 00000      | Good  |                   |                      |     | JkC  | FRI |
| 5430 | 0800 - 0811z | 30 Jan | 171 (272 15)   | Errors with call-up followed by several botched repeat attempts |                   |                      |     | AB   | SAT |
| 5374 | 1700 - 1704z | 01 Jan | 382 00000      | Good  |                   |                      |     | JkC  | FRI |
|      | 1700 - 1704z | 15 Jan | 382 00000      | Good  |                   |                      |     | JkC  | FRI |
| 5560 | 0900z        | 09 Jan | 171 (272 15) = | 89105 78127 55945.....  | 16014 =           | Fair signal with QSB | MCW | RNGB | SAT |
| 5947 | 0600z        | 24 Jan | 382 00000      | Modulation w/ harmonics each 1 kHz                              |                   |                      |     | HFD  | SUN |
| 6767 | 0700z        | 24 Jan | 382 00000      |   |                   |                      |     | HFD  | SUN |

**February 2016:**

|   |                              |                  |  |      |   |                               |
|---|------------------------------|------------------|--|------|---|-------------------------------|
| 3721  | 1600 - 1604z<br>1600 - 1630z | 02 Feb<br>16 Feb | 361 00000 MCW<br>361 (820 128) 37613 01355 ..... 45543 26589 00000 MCW |      | E.SMITH<br>E.SMITH                      | TUE<br>TUE                    |
| Intro was a mess. Spent the first 2 minutes transmitting 61 with the odd random number thrown in. |                              |                  |  |      |   |                               |
| 4636  | 1820 - 1828z                 | 23 Feb           | 186 (133 15) 12345 ... 89078 00000                                     | Good | Obviously fake traffic (See transcript) | JkC TUE                       |
| 4761  | 1920 - 1928z                 | 24 Feb           | 748 (133 15) 12345 .. 89078 00000                                      | Good | Same fake message as 23 Feb             | JkC WED                       |
| 4975  | 1800 - 1803z                 | 19 Feb           | 382 00000  | Good |   | JkC FRI                       |
| 5374  | 1700 - 1703z                 | 19 Feb           | 382 00000  | Good |   | JkC FRI                       |
| 5430  | 0800z                        | 13 Feb           | 171  |      |   | HFD SAT                       |
| 5561  | 0900z                        | 13 Feb           | 171 ( . 79 15) = 98712....   |      |   | HFD SAT                       |
| 9412  | 1532z                        | 04 Feb           | 058 (346 72) == [5 fig grps] 00000                                     |      | Unusual freq - Beating with weak BC stn | PoSW THU                      |
| 14758   | 0930 - 0933z<br>0930 - 0934z | 10 Feb<br>25 Feb | 617 00000<br>617 00000   |      |   | E.SMITH<br>E.SMITH WED<br>THU |

**M14 4761kHz 1920z 13 Jan 16**  
748 (R4m) 569 569 15 15 ==  
  
11090 38276 68675 11652 79183  
39910 67182 55713 70193 57126  
50192 16732 49003 55176 28196 = =  
  
569 569 15 15 00000  
  
*Courtesy JkC*

**M14 5430kHz 0800 - 0811z 30 Jan16**  
  
**(0800z)**  
171 (R) **722 72** 15 15  
  
89205 89205 88127 **78127** 55945 55945 77806 77806 11321 11321  
16210 16210 52217 52217 69205 69205 15324 15324 53746 53746  
76089 76089 76201 76201 62189 62189 67220 67220 17014 17014  
  
272 272 15 15 00000  
  
**(0806z)**  
0571 78870 68857 63530 19721 90992 51797 37098 49525 14057  
64208 19778 15629 26714 66895 5245U  
  
**(0811z)**  
..... 2 21969 14915 26141 2611  
  
*Courtesy AB*

**M14 4636kHz 1820z 23 Feb 16**  
186 (R4m) 133 133 15 15 ==  
  
12345 32321 45451 89012 45456  
12356 12334 65656 78780 09876  
13456 76890 65991 76765 89078 = =  
  
133 133 15 15 00000  
  
*Courtesy JkC*

**M14 struggles to send a 15 group message on 30 January**

**The 23 Feb Message with fake groups**

**M23** O ICW  
No reports

**M24** IA MCW / ICW / MCWCC (high speed version of M14), short 0

|       |              |        |   |      |       |         |
|-------|--------------|--------|---|------|-------|---------|
| 8095  | 1530 - 1546z | 23 Feb | 343 (816 75) = 86637 ... 25168 = 816 75 00000 | Good | 23wpm | JkC TUE |
| 9073  | 1530 - 1546z | 25 Feb | 343 (816 75) = 86637 ... 25168 = 816 75 00000 | Fair |       | JkC THU |
| 10755 | 1500 - 1516z | 25 Feb | 343 (816 75) = 86637 ... 25168 = 816 75 00000 | Fair | 23wpm | JkC THU |
| 11487 | 1500 - 1513z | 18 Feb | 058 (493 72) = 74789 ... 30026 = 493 72 00000 | Good | 23wpm | JkC THU |

Jim (JkC) notes that the last time M24 appeared on 11487kHz, (01 Dec 2015, 1300z), the repeat was +30m on 9412kHz. Although he tried for 9412kHz, this was NRH & under heavy broadcast QRM & a further Search over 9-10MHz also found nothing.

**M24 11487kHz 1500z 18 Feb 16**  
058 (R4m) 493 493 72 72 ==  
  
74789 68273 97591 56152 46128 93496 01030 33286 98211 19498  
26437 74729 64477 81117 61272 59062 19235 32004 59302 57726  
07761 13847 80511 03334 31570 01487 10407 54946 18555 72343  
00910 71255 32667 73598 00006 27626 02846 85564 62366 37909  
75866 04692 58101 66988 22804 94630 21852 44984 53797 78809  
09404 19048 20804 72944 53996 03708 13026 80930 39543 15666  
74702 02556 32919 04025 99952 26458 42529 11851 84357 06782  
95322 30026 = =  
  
493 493 72 72 00000  
  
*Courtesy JkC*

**M24 8095kHz 1530z 23 Feb 16**  
343 (R4m) 816 816 75 75 ==  
  
86637 87548 89304 17229 43213 83203 49727 21389 30798 37756  
19216 20325 22306 76203 99877 85196 51630 33516 69079 90404  
03653 73429 17159 20917 44583 08900 93439 21082 59818 60152  
40235 83397 91510 11269 19525 00653 93031 51241 62000 29885  
42511 10449 93152 41593 82654 28465 16104 52642 79012 14165  
55869 66294 13891 84046 94719 67812 58106 89716 53357 49058  
87745 70470 97570 60542 38139 91909 75076 14341 12234 56534  
12207 86343 85539 97237 25168 = =  
  
816 816 75 75 00000  
  
*Courtesy JkC*

**M97** CW, partner station to V30 10375kHz Starts 1453 - 1500z (Variable) .

Due to the poor reception of this signal in both the UK and Canada, GlobalTuners receivers at Hong Kong, Mojave Desert & Sydney - as well as the Twente SDR, were used frequently to confirm the msg detail.

No logs received. Last heard with the SD84 message on 06 & 07 May 2015.

### Morse Stations - Not Number Related

**M51** XIX

#### **FAV22 call used on 3712.5kHz**

M51 was active on 3712.5kHz for many hours on Wed 17 February. Interestingly, at 1715z the fast CW groups ceased & the FAV22 call-up started followed by slow Morse lessons for Lundi, (Monday), at 420 grps/hr. This continued until 1802z when the FAV22 sign-off was sent. The station then immediately resumed the fast continuous groups & was still active at 2200z.

Apart from the incorrect day given for the slow Morse lessons, the FAV22 call-up also stated the frequencies in use as 3881/6825kHz. However, a check on both these frequencies showed that these were not in use at this time. (This same lesson was repeated on Fri 19 Feb - this time on the known FAV22 frequencies).

As usual when this station used frequencies within the 80m amateur band there were a number of attempts to jam the signal by disgruntled 'operators' by the use of swinging VFOs or transmitting a continuous carrier or sending Morse on the same frequency.

PoSW has also been following the activities of M51 & sends in this report;

The M51 CW continues to be active on 6825 and 3881 kHz, and I was surprised to find it going strong on the morning of Christmas day; I was away for a couple of days over the holiday but had time for a quick tune around the short-wave bands at around 0820 UTC on Friday 25-December and found these two frequencies active with CW. Something more than a training exercise here, surely? I doubt whether the keenest student of La Telegraphie would be at his studies on Christmas morning! *Thanks PoSW*

|            |                     |        |   |    |     |
|------------|---------------------|--------|---|----|-----|
| 3712.5     | 1640 (IP) - 2200z + | 17 Feb | Continuous grps - Ceasing for Lundi-Leçon from 1715 - 1802z                         | BR | WED |
| 3881//6825 | 1500z (IP)          | 26 Jan | Continuous grps - Mostly 5-ltr, but with occasional 5-number or 5-punctuation chars | BR | TUE |
|            | 1257 - 1510z        | 11 Feb | Continuous grps - Started immediately on the ending of the M51a 4ransmission        | BR | THU |
|            | 1523 - 2100z +      | 19 Feb | Continuous grps - Ceasing for Lundi-Leçon from 1715z - 1802z                        | BR | FRI |

**M51a** (FAV22) Daily Mon - Fri, Sun & some Sats. See NL 72 for details

|            |                      |        |                    |  |   |     |     |
|------------|----------------------|--------|--------------------|--|---|-----|-----|
| 3712.5     | <b>1715 - 1802z*</b> | 17 Feb | <b>Lundi-Leçon</b> | <b>01-1/1 Codé</b>   | 01-1/2 Clair, 01-1/3 Codé, 01-1/4 Clair (420 grps/hr) | BR  | WED |
| 3881//6825 | 1230 - 1302z         | 09 Feb | Mardi-Leçon        | 22-2/1 Codé  | 22-2/2 Clair, 22-2/3 Codé, 22-2/4 Clair (600 grps/hr) | BR  | TUE |
|            | 1230 - 1305z         | 10 Feb | Mercredi- Leçon    | 23-2/1 Codé, 23-2/2 Clair, 23-2/3 Codé, 23-2/4 Clair (720 grps/hr) | BR  | WED |     |
|            | 1230 - 1257z         | 11 Feb | Jeudi- Leçon       | 24-2/1 Codé, 24-2/2 Clair, 24-2/3 Codé, 24-2/4 Clair (840 grps/hr) | BR  | THU |     |
|            | 1230 - 1304z         | 12 Feb | Vendredi- Leçon    | 25-2/1 Codé, 25-2/2 Clair, 25-2/3 Codé, 25-2/4 Clair (960 grps/hr) | BR  | FRI |     |
|            | <b>1715 - 1802z*</b> | 19 Feb | <b>Lundi-Leçon</b> | <b>01-1/1 Codé</b>   | 01-1/2 Clair, 01-1/3 Codé, 01-1/4 Clair (420 grps/hr) | BR  | FRI |

\* Appear to be random unscheduled lessons - Day used for lesson was incorrect.

**M89** O

This is a summary of activity from the M89 stations.

#### **Regular schedules from 2SLC, RIS9 & ALSK Cease**

These call signs have been missing from all known frequencies since 16 Jan 16. A search has yet to find any new frequencies or call signs.

On 31 Dec 15, the Chinese PLA Second Artillery Corps was replaced by the PLA Rocket Force. This new Force will have more functions and troops than its former organization which could account for the disappearance of 2SLC, RIS9, and ALSK.

If nothing else, this is further proof that these three stations are linked/part of the same network. Another possibility is that these three stations have switched to some sort of digital mode on new frequencies,. although no digital modes have been noted on the old CW frequencies to date. *Jean-Paul (JPL)*

**Operator Chat from M89**

Op. chat & traffic reported on the following freqs. (All in kHz).

|      |      |      |      |      |      |      |      |       |
|------|------|------|------|------|------|------|------|-------|
|      |      | 5034 |      | 6326 |      |      |      |       |
|      |      | 5068 | 5352 | 6485 |      |      |      |       |
|      |      | 5123 | 5364 | 6556 |      |      |      |       |
|      |      | 5135 | 5436 | 6565 |      |      |      |       |
|      |      | 5147 | 5438 | 6573 |      | 8017 |      |       |
|      |      | 5177 | 5454 | 6586 |      | 8035 |      |       |
|      |      | 5186 | 5460 | 6611 |      | 8045 |      |       |
|      |      | 5192 | 5466 | 6621 |      | 8056 |      |       |
| 3320 | 4101 | 5197 | 5473 | 6633 | 7527 | 8069 | 9054 |       |
| 3516 | 4121 | 5197 | 5473 | 6637 | 7652 | 8101 | 9131 |       |
| 3702 | 4137 | 5201 | 5477 | 6637 | 7652 | 8123 | 9171 | 10126 |
| 3726 | 4351 | 5214 | 5486 | 6645 | 7654 | 8144 | 9180 | 10540 |
| 3789 | 4358 | 5220 | 5511 | 6666 | 7777 | 8321 |      | 10676 |
| 3870 | 4510 | 5226 | 5518 | 6704 | 7788 | 8451 |      | 10860 |
| 3894 | 4601 | 5234 | 5533 | 6821 | 7862 | 8720 |      |       |
|      | 4640 | 5282 | 5545 | 6841 | 7890 | 8745 |      |       |
|      |      | 5301 | 5555 | 6850 |      | 8878 |      |       |
|      |      | 5326 | 5572 | 6851 |      | 8888 |      |       |
|      |      | 5331 | 5588 | 6868 |      |      |      |       |
|      |      | 5340 | 5643 | 6871 |      |      |      |       |
|      |      | 5341 | 5692 | 6878 |      |      |      |       |
|      |      | 5347 | 5800 | 6916 |      |      |      |       |
|      |      |      |      | 6953 |      |      |      |       |
|      |      |      |      | 6958 |      |      |      |       |

**New Scheds for Jan / Feb 2016: From logs submitted from JPL**

|                    |                                      |                    |  |
|--------------------|--------------------------------------|--------------------|--|
| <u>3642//5801</u>  | New freq pairing for this Round Slip | First heard 11 Feb | V DKG6 (x3) DE 3A7D (x2)                         |
| <u>3732//NRH</u>   | New frequency for this Round Slip    | First heard 26 Jan | V JKDJ (x3) DE SLBC (x2)                         |
| <u>4640</u>        | New Round slip call sign             | First heard 22 Jan | VVV 3Z9 DE ZN4 (Uses same format as NYZ and FXM) |
| <u>4886//5177</u>  | New freq pairing for this Round Slip | First heard 29 Jan | V JKDJ (x3) DE SLBC (x2)                         |
| <u>8989//10180</u> | New frequency for 3A7D               | First heard 20 Jan | V DKG6 (x3) DE 3A7D (x2)                         |

**Chart of M89 Freq & Call signs heard in Jan / Feb 2016 New Scheds shown in Bold Type**

| <u>Freq in KHz</u>     | <u>Call Slip</u>                         |
|------------------------|--|
| 3300//NRH              | V MW3D (x3) DE 2SLC (x2)                 |
| 3642//NRH              | V DKG6 (x3) DE 3A7D (x2)                 |
| 3642//5320             | V DKG6 (x3) DE 3A7D (x2)                 |
| 3642//5801             | V DKG6 (x3) DE 3A7D (x2)                 |
| 3642//7602             | V DKG6 (x3) DE 3A7D (x2)                 |
| 3732//NRH              | V JKDJ (x3) DE SLBC (x2)                 |
| 3777//4532             | V M8JF (x3) DE RIS9 (x2)                 |
| 3777//4532//6793//8060 | V M8JF (x3) DE RIS9 (x2)                 |
| 3821//5644             | V DKSL (x3) DE ALSK V (x2)               |
| 4131//NRH              | V JKDJ (x3) DE SLBC (x2)                 |
| 4131//4886             | V JKDJ (x3) DE SLBC (x2)                 |
| 4532//NRH              | V M8JF (x3) DE RIS9 (x2)                 |
| 4532//6793//8060       | V M8JF (x3) DE RIS9 (x2)                 |
| 4640//NRH              | VVV 3Z9 DE ZN4                           |
| 4720//NRH              | VVV WNF (x3) DE FXM (x2)                 |
| 4860// NRH             | VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? |
| 4860// 6840            | VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? |
| 4886//5177             | V JKDJ (x3) DE SLBC (x2)                 |

| <u>Freq in kHz</u> | <u>Call Slip</u>                           |
|--------------------|--|
| 5177//NRH          | V JKDJ (x3) DE SLBC (x2)                   |
| 5588//NRH          | V MW3D (x3) DE 2SLC (x2)                   |
| 5644//NRH          | V DKSL (x3) DE ALSK V (x2)                 |
| 5801//10180        | V DKG6 (x3) DE 3A7D (x2)                   |
| 6421//NRH          | V DKSL (x3) DE ALSK (x2)                   |
| 6421//9131         | V DKSL (x3) DE ALSK (x2)                   |
| 6793//NRH          | V M8JF (x3) DE RIS9 (x2)                   |
| 6793//8060         | V M8JF (x3) DE RIS9 (x2)                   |
| 6840//NRH          | VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K |
| 6840//10640        | VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K |
| <b>8989//10180</b> | V DKG6 (x3) DE 3A7D (x2)                   |
| 10180//NRH         | V DKG6 (x3) DE 3A7D (x2)                   |

*Courtesy JPL*

**M89 6871kHz 0012 - 0014z 13 Jan 2016**  
 (Remote tuner Hong Kong) (IP - 0012z)

NR 1131/EX 0821 RMKS CQ BT MY9/OK8 AR NR  
 1131/EX 0821 RMKS CQ BT MY9/OK8 AR  
 NR 1131/EX 0821 RMKS CQ BT MY9/OK8 AR  
 QSY 17 QSY 17 VVV (0014z)

**M89 6821kHz 0014 - 0015z 13 Jan 2016**  
 ( Remote tuner Siberia) (IP - 0014z)

FFF NR 1171/EX 0818 BT H4Y/CQ3S AR (IP - 0014z)  
 NR 1171/EX 0818 BT H4Y/CQ3S AR  
 NR 1171/EX 0818 BT H4Y/CQ3S AR  
 QSY 18 QSY 18 VVV (0015z)

**M89 6821kHz 0018 - 0018z 13 Jan 2016**  
 ( Remote tuner Siberia) (IP - 0018z)

NR 1173/EX 0824 BT NB3/FEEE BT (IP - 0018z)  
 NB3/FW0H AR  
 QSY 16 QSY 16 VVV (0019z)

*Courtesy JPL*

**M89 6421kHz 1737 - 1739z 06 Jan 2016**  
 Possibly ALSK (Remote tuner Siberia) (IP - 1737z)

**New traffic format**

6421kHz1737z 06/01/16[(IP - JPL WED  
 01180713AAL (IP - Machine sent - 1737z)  
 9919228AAL  
 7226983AAL  
 278930AAL  
 102532AAL  
 508412AAL  
 AHR CD AR  
 09 AR  
 U W 15-IUL'A  
 01817AAL  
 160109090230847AAL  
 01285846AAL  
 1086062AAL  
 10011.AAL  
 1010606AAL  
 9877763AAL  
 2Q180IU AAL  
 54813AAL  
 160109092830029AAL  
 01180713AAL (1739z)

*Courtesy JPL*

As well as the above examples, only a couple from those monitored by Jean-Paul, it was irresistible for us not to have included the following two intercepts - purely for their bizarre & unusual content. Many thanks to JPL for sending these to us. Test transmissions or bored operators - You decide!

**M89 6611kHz 0912 - 0922z 05 Jan 2016**  
 (Remote tuner Siberia) (IP - 0912z) .

GHF BT (IP - Handsent - Slow CW)  
 AHCDEFGHL BT  
 ABCDEFGT EEEE (0913z)  
 KERLMNOPQI EEEE R K  
 XY.VZ AR  
 JKLMNOJ EEEE (0915z)  
 BT RTUVWXYZ  
 ABCDEFGHIJKL EEEE MNOPQRS EEEE (0916z)  
 BT AB BT  
 BT ABCDT EEEEE BT  
 ABCDEF EEEEE JKLMNOPQRS EEEE (0917z)  
 Q BT ABCDEFGHIJL BT  
 ABCDEFGHIJKLMNOPQRSEEEEE RSTUVWXYZ AR  
 (0918z)  
 BT ABCDEFGHIJL EEE L BT  
 ABCDEFGT EEEEE JKLMJ BT  
 ABCDEFGHIJKLMNOPQRSTUWXYZ AR (0920z)  
 BT ABCDEFGHIJKLMNOPQRSTUWXYZ AR (0921z)  
 BT 6 TA BT ABM EEEE ABCDE/ (0922z)

*Courtesy JPL*

**M89 5341kHz 2342 - 2352z 18 Jan 2016**  
 (Remote tuner Siberia) (IP - 2342z) .

OM5L K8N Q1SG MC76 BW4GFNVF N.34 EUTD  
 BM3C R4RS 4SNT VS9XT73AC81Z Y4WQ AR AR  
 (2349z)  
 50 50 AR AR 50 05 AR 4 AR (2349z)  
 FW FW FW FW FW  
 UW3EEEE TTTTT AR AR AR EEEE BT BT BT BT BT  
 AR AR (2350z)  
 AU34567DNTAU34567DNT AU34567DNT  
 AU34567DNT (Cont'd - 2351z)  
 FW FW FW (2352z)  
 UVT4567DNT AU34567DNT (Cont'd - 2352z)

**I LOVE 5 EEEEE FL ? ABCDEFGHIHJKLMNPO  
 QRSTUVWXYZ  
 ABCDEFGHIJKLMNOPQRSTUVWXYZ**

(Cont'd - 2354z) (Silent - 2355z)

*Courtesy JPL*

**DP Stations**

| <u>4375/NRH</u> | New frequency for this station | First heard | 26 Jan   | CQ DE DP91               |     |     |  |
|-----------------|--------------------------------|-------------|--|--------------------------|-----|-----|--|
| 3516            | 1600 (IP) - 1605z              | 18 Feb      | Calls to DP stations DP7 .41, DP7391, DP7491   | (Remote tuner Siberia)   | JPL | THU |  |
| 3894            | 1602 - 1607z                   | 27 Jan      | (Probably DP91) Calls to numerous DP+4 fig stns DP7791, DP7391, DP7491, DP7791, DP7091, DP7691, DP7791 | (Remote tuner Siberia)   | JPL | WED |  |
|                 | 1602 (IP) - 1603z              | 17 Feb      | (Probably DP91) Calls to DP+4 fig stns DP7691, DP7491  | (Remote tuner Siberia)   | JPL | WED |  |
|                 | 1605 (IP) - 1606z              | 18 Feb      | (Probably DP91) Calling DP7691 GB  | (Remote tuner Siberia)   | JPL | THU |  |
|                 | 1600 - 1604z                   | 19 Feb      | DP91 Calls to numerous DP+4 fig stns on 3516kHz DP7791, DP7591, DP7391, DP7691,                        | (Remote tuner Hong Kong) | JPL | FRI |  |
| 4375            | 1356 - 1412z                   | 18 Feb      | V CQ (x3) DE DP4096 (x2) (Sends letter O for zero)   | (Remote tuner Siberia)   | JPL | THU |  |

M95 Morse Logs

|   |   |                            |   |                          |     |     |
|---|---|----------------------------|---|--------------------------|-----|-----|
| 4225  | 1847z   | 04 Jan                     | V 7NPE (x3) DE QV5B (x2) (IP - Cont'd)  | (Remote tuner Hong Kong) | JPL | MON |
|   | 0300z   | 05 Jan                     | V 7NPE (x3) DE QV5B (x2) (IP - Cont'd)  | (Remote tuner Hong Kong) | JPL | TUE |
|   | 1551z   | 12 Jan                     | V 7NPE (x3) DE QV5B (x2) (IP - Cont'd)  | (Remote tuner Hong Kong) | JPL | TUE |
| 4243//9054  | <b>This appears to be a new M95 station, as message number differs from current XSV70 and XSV85 message numbers</b> |                            |   |                          |     |     |
|   | 1219 (IP) - 1226z   | 07 Feb                     | NR 043 CK 15 35 0207 1630 BT (//NRH)  | (Remote tuner Siberia)   | JPL | SUN |
|   | 1150 (IP) - 1157z   | 09 Feb                     | NR 049 CK 19 35 0209 1639 BT  | (Remote tuner Hong Kong) | JPL | TUE |
|   | 1148 (IP) - 1154z   | 12 Feb                     | NR 0050 CK 17 35 ... 2163 . . . .   | (Remote tuner Hong Kong) | JPL | FRI |
|   |   |                            | NR 0051 CK 22 35 0212 1640 BT   |                          | JPL | FRI |
|   | 1145 (IP) - 1156z   | 13 Feb                     | NR 26 CK 135 35 0213 1603 BT (No call sign sent)  | (Remote tuner Hong Kong) | JPL | SAT |
|   |   |                            | NR 081 CK 22 35 0213 1528 BT  | (Remote tuner Hong Kong) | JPL | SAT |
|   | 1145 (IP) - 1202z   | 16 Feb                     | NR 087 CK 28 35 0216 1520 BT  | (Remote tuner Hong Kong) | JPL | TUE |
|   |   |                            | NR 080 CK 21 35 0216 1532 BT  |                          | JPL | TUE |
|   | 1140 (IP) - 1150z   | 18 Feb                     | NR 086 CK 1 . 35 0218 1656 BT   | (Remote tuner Siberia)   | JPL | THU |
|   |   |                            | NR 091 CK 21 35 0218 1 .16 BT   |                          | JPL | THU |
|   |   |                            | NR 36 CK 075 35 0218 1735 BT  |                          | JPL | THU |
|   | 1140 (IP) - 1228z   | 17 Feb                     | NR 083 CK 19 35 0UA7 A649 BT  |                          | JPL | WED |
|   |   |                            | NR 089 CK 19 35 0UA7 A5AU BT  |                          | JPL | WED |
|   |   |                            | NR 34 CK 140 35 0.A7 A6T3 BT  |                          | JPL | WED |
|   |   |                            | NR 0218 49 0222 1040 BT   | (Remote tuner Hong Kong) | JPL | TUE |
|   | 1118 (IP) - 1201z   | 23 Feb                     | NR 001 22 35 0223 1057 BT   |                          | JPL | TUE |
|   |   |                            | NR 002 13 35 0223 1616 BT   |                          | JPL | TUE |
|   |   |                            | NR 46 143 35 0223 1719 BT   |                          | JPL | TUE |
|   |   |                            | NR 02 CK 18 49 0222 1030 BT   | (Remote tuner Hong Kong) | JPL | WED |
|   |   |                            | NR 03 CK 17 35 0224 1530 BT   |                          | JPL | WED |
|   | 1145 (IP) - 1212z   | 25 Feb                     | NR 005 CK 19 35 0225 1513 BT  | (Remote tuner Hong Kong) | JPL | THU |
|   |   |                            | NR 50 CK 112 35 0225 1601 BT  |                          | JPL | THU |
| NR 008 CK 19 35 0225 1629 BT                        |   |                            |   | JPL                      | THU |     |
| 1144 (IP) - 1200z                                   | 26 Feb  | NR 007 21 35 0226 1512 BT  | (Remote tuner Hong Kong)  | JPL                      | FRI |     |
|   |   | NR 52 115 35 0226 1614 BT  |   | JPL                      | FRI |     |
| 4283//7553  | Call Sign XSV70   |                            |   |                          |     |     |
|   | 0929 (IP) - 0954z   | 05 Jan                     | NR 13 CK 113 35 0105 0700   | (Remote tuner Hong Kong) | JPL | TUE |
|   | 0914 (IP) - 0953z   | 06 Jan                     | NR 15 CK 196 35 0105 1550   |                          | JPL | TUE |
|   |   |                            | NR 16 CK 151 35 0106 0700   | (Remote tuner Hong Kong) | JPL | WED |
|   |   |                            | NR 17 CK 115 35 0106 1554   |                          | JPL | WED |
|   | NR 18 CK 196 35 0106 1554   |                            | JPL   | WED                      |     |     |
| 0934 (IP) - 0954z                                   | 10 Feb  | NR 114 CK 194 35 0209 1556 | (Remote tuner Hong Kong)  | JPL                      | WED |     |
| NR 121 CK 91 35 0210 0505                           |   | JPL                        | WED   |                          |     |     |
| 5500  | 2137z   | 07 Feb                     | V 7NPE (x3) DE QV5B (x2) (IP - Cont'd)  | (Remote tuner Siberia)   | JPL | SUN |
|   | 1149z   | 09 Feb                     | V 7NPE (x3) DE QV5B (x2) (IP - Cont'd)  | (Remote tuner Hong Kong) | JPL | TUE |
|   | 0003z   | 10 Feb                     | V 7NPE (x3) DE QV5B (x2) (IP - Cont'd)  | (Remote tuner Hong Kong) | JPL | WED |
| 5678  | 2345 (IP) - 2358z   | 05 Feb                     | 05 05 05 05 (Long zero) VV A .NR .. GT 37652367D<br>(Switched to XSV85 sked on 8073kHz - 2358z) | (Remote tuner Siberia)   | JPL | FRI |
| 7553  | Call sign XSV70   |                            |   |                          |     |     |
|   | 0908 (IP) - 0924z   | 09 Jan                     | NR 27 CK 10 35 0109 1555  | (Remote Hong Kong)       | JPL | FRI |
|   | 0945 (IP) - 0945z   | 06 Feb                     | NR 119 CK .25 35 0.06 0705 (Unable to find //)  | (Remote Hong Kong)       | JPL | SAT |
|   | 0910 - 0957z  | 08 Feb                     | NR 115 CK 107 35 0208 0655  | (Remote Hong Kong)       | JPL | MON |
|   |   |                            | NR 116 CK 197 35 0208 152 .<br>NR 117 CK 245 35 0208 1523                                       |                          | JPL | MON |
| <i>(See also 4283//7553 above for // freq logs)</i> |   |                            |   |                          |     |     |
| 7554  | Call sign XSV70   |                            |   |                          |     |     |
|   | 0907 - 0954z  | 24 Jan                     | (Started on 7553 //9156kHz for Data & Speech- Switched to 7554//NRH for CW transmission)        |                          |     |     |
|   |   |                            | NR 70 CK 149 35 0124 0705<br>NR 71 CK 149 35 0124 1544  | (Remote tuner Hong Kong) | JPL | SUN |
| 7582  | Call sign QV5B  |                            |   |                          |     |     |
| 0932z   | 11 Jan  | V 7NPE (x3) DE QV5B (x2)   | (Remote tuner Hong Kong)  | JPL                      | MON |     |
| 7777  | Call sign XSV85   |                            |   |                          |     |     |
|   | 1122 - 1127z  | 27 Jan                     | 05 05 05 + grps (IP - Hand sent - Long zero)<br>(Op. changed to 8030kHz for the XSV85 sched)    | (Remote tuner Hong Kong) | JPL | WED |
|   | 2325 - 2335z  | 13 Feb                     | CBG DE XSV85 HR MSG GA C'Y (Cont.)  | (Remote tuner Hong Kong) | JPL | SUN |
| 8060  | 0011 (IP) - 0019z   | 15 Feb                     | 05 05 05 (Long zero) BT III AR  | (Remote tuner Siberia)   | JPL | MON |

Usual format is Initial call-up in voice USB, then to digital 4+4 mode LSB, finally, switching to CW  
 CW call-up is **V BNGC (x3) DE XSV85 (x2)** All logged via Remote tuner Hong Kong unless stated.

As predicted by JPL msgs from XSV85 restarted from 00001 in Jan 2016

|                   |        |  |                                       |     |     |
|-------------------|--------|--|---------------------------------------|-----|-----|
| 0006 - 0022z      | 04 Jan | NR 0010 CK 106 35 0104 0704 BT                                 |                                       | JPL | MON |
| 0001 - 0016z      | 07 Jan | NR 0016 CK 107 35 0107 0711 BT                                 |                                       | JPL | THU |
| 1130 - 1157z      | 08 Jan | NR 0019 CK 136 35 0108 1550 BT                                 |                                       | JPL | FRI |
| 0001 - 0007z      | 11 Jan | NR 0024 CK 115 35 0111 0710 BT                                 |                                       | JPL | MON |
| 0001 - 0006z      | 12 Jan | NR 0026 CK 102 35 0112 0710 BT                                 |                                       | JPL | TUE |
| 0001 - 0007z      | 13 Jan | NR 0028 CK 079 35 0113 0710 BT                                 |                                       | JPL | WED |
| 1129 - 1139z      | 15 Jan | NR 0033 CK 236 35 0115 1540 BT                                 |                                       | JPL | FRI |
| 0001 - 0009z      | 16 Jan | NR 0034 CK 94 35 0116 0708 BT                                  |                                       | JPL | SAT |
| 1128 - 1141z      | 16 Jan | NR 0035 CK 219 35 0116 1512 BT                                 |                                       | JPL | SAT |
| 1140 - 1141z      | 18 Jan | NR 0039 CK 238 35 0118 1542 BT                                 | (No voice or digital component sent)  | JPL | MON |
| 0001 - 0011z      | 19 Jan | NR 0040 CK 89 35 0119 0703 BT                                  |                                       | JPL | TUE |
| 0015 (IP) - 0015z | 20 Jan | NR 0042 CK 115 35 0120 0728 BT                                 |                                       | JPL | WED |
| 0001 - 0017z      | 22 Jan | NR 0048 CK 110 35 0122 0715 BT                                 |                                       | JPL | FRI |
|                   |        | NR 0049 CK 33 35 0122 0721 BT                                  |                                       | JPL | FRI |
| 0001 - 0019z      | 24 Jan | NR 0056 CK 81 35 0124 0659 BT                                  |                                       | JPL | SUN |
|                   |        | NR 0057 CK 21 35 0124 0704 BT                                  |                                       | JPL | SUN |
| 1140 - 1204z      | 24 Jan | NR 0058 CK 24 35 0124 1742 BT                                  | Extremely weak (Remote tuner Finland) | JPL | SUN |
|                   |        | NR 0059 CK 21 35 0124 1552 BT                                  |                                       | JPL | SUN |
| 0001 - 0012z      | 25 Jan | NR 0060 CK 83 35 0125 ..... BT                                 | (Too weak to copy)                    | JPL | MON |
| 1142 - 1147z      | 25 Jan | NR 0063 CK 308 35 0125 0551 BT                                 |                                       | JPL | MON |
| 1129 - 1203z      | 27 Jan | NR 0070 CK 256 35 0127 1611 BT                                 |                                       | JPL | WED |
|                   |        | NR 0071 CK 52 35 0127 1614 BT                                  |                                       | JPL | WED |
| 0001 - 0017z      | 29 Jan | NR 007 . CK ... 35 0129 0724 BT                                |                                       | JPL | FRI |
| 0001 - 0017z      | 06 Feb | NR 0105 CK 96 35 0206 0704 BT                                  |                                       | JPL | SAT |
|                   |        | NR 0106 CK 48 35 0206 0710 BT                                  |                                       | JPL | SAT |
| 1130 - 1142z      | 06 Feb | NR 0107 CK 26. 35 0206 1549 BT                                 |                                       | JPL | SAT |
|                   |        | NR 0108 CK 46 35 0206 1559 BT                                  |                                       | JPL | SAT |
| 0001 - 0019z      | 07 Feb | NR 0109 CK 96 35 0207 0700 BT                                  |                                       | JPL | SUN |
|                   |        | NR 0110 CK 46 35 0207 0708 BT                                  |                                       | JPL | SUN |
| 1130 - 1200z      | 07 Feb | NR 0111 CK 300 35 0207 1609 BT                                 |                                       | JPL | SUN |
|                   |        | NR 0112 CK 42 35 0207 1609 BT                                  |                                       | JPL | SUN |
| 0001 - 0013z      | 08 Feb | NR 0113 CK 34 35 0208 0705 BT                                  |                                       | JPL | MON |
|                   |        | NR 0114 CK 118 35 0208 0707 BT                                 |                                       | JPL | MON |
| 1130 - 1148z      | 09 Feb | NR 0119 CK 174 35 0209 1552 BT                                 |                                       | JPL | TUE |
| 0001 - 0006z      | 10 Feb | (Extremely weak - (Unable to copy message - mostly unreadable) |                                       | JPL | WED |
| 0006 (IP) - 0021z | 12 Feb | NR 0124 CK 109 35 0212 0714 BT                                 | (Remote tuner Siberia)                | JPL | FRI |
| 1140 (IP) - 1141z | 12 Feb | NR 0125 CK 252 35 0212 1545 BT                                 |                                       | JPL | FRI |
| 1130 - 1144z      | 13 Feb | NR 0128 CK 30 06 35 0213 AT5 BT                                |                                       | JPL | SAT |
| 1128 - 1200z      | 14 Feb | NR 0132 CK 38 35 0214 1536 BT                                  |                                       | JPL | SUN |
|                   |        | NR 133 CK 31 035 0214 1556 BT                                  |                                       | JPL | SUN |
| 0012 (IP) - 0015z | 15 Feb | CK 38 35 0215 0708 BT  | (Remote tuner Siberia)                | JPL | MON |
| 0202z (IP)        | 15 Feb | NIL SK GB  | (Remote tuner Siberia)                | JPL | MON |
| 1206 (IP) - 1219z | 15 Feb | NR 0137 CK 44 35 0215 1616 BT                                  | (Remote tuner Siberia)                | JPL | MON |
| 1131 - 1145z      | 16 Feb | NR 0140 CK 32 35 0216 1619 BT                                  |                                       | JPL | TUE |
|                   |        | NR 0141 CK 331 35 0216 1622 BT                                 | (Switched to 4243//9054kHz M95 Sked)  | JPL | TUE |
| 1129 - 1206z      | 17 Feb | NR 0144 CK 238 35 0217 1549 BT                                 |                                       | JPL | WED |
|                   |        | NR 0145 CK 22 35 0217 1605 BT                                  |                                       | JPL | WED |
| 1130 - 1158z      | 18 Feb | NR 0147 CK 49 35 0218 1541 BT                                  | (Remote tuner Siberia)                | JPL | THU |
|                   |        | NR 0148 CK 26 . 35 0218 1605 BT                                |                                       | JPL | THU |
| 0006 - 0020z      | 19 Feb | NR 0149 CK 13 . 35 0219 0705 BT                                |                                       | JPL | FRI |
|                   |        | NR 0150 CK 48 35 0219 0711 BT                                  |                                       | JPL | FRI |
| 1150 - 1151z      | 19 Feb | NR 0151 CK 330 35 0219 1614 BT                                 |                                       | JPL | FRI |
| 0006 - 0022z      | 18 Feb | NR 0153 CK 106 35 0220 0714 BT                                 |                                       | JPL | SAT |
|                   |        | NR 0154 CK 46 35 0220 0715 BT                                  |                                       | JPL | SAT |
| 0001 - 0024z      | 21 Feb | NR 0157 CK 141 35 0221 0711 BT                                 |                                       | JPL | SUN |
|                   |        | NR 0158 CK 30 35 0221 0716 BT                                  |                                       | JPL | SUN |
| 0001 - 0020z      | 22 Feb | NR 0161 CK 114 35 0222 0714 BT                                 |                                       | JPL | MON |
|                   |        | NR 0162 CK 39 35 0222 0715 BT                                  |                                       | JPL | MON |
| 1130 - 1208z      | 23 Feb | NR 0167 CK 255 35 0223 1626 BT                                 |                                       | JPL | TUE |
|                   |        | NR 0168 CK 37 35 0223 1630 BT                                  |                                       | JPL | TUE |
| 0010 (IP) - 0015z | 24 Feb | NR 0169 CK 104 35 0224 .103 BT                                 | Weak / fading                         | JPL | WED |
| 1137 - 1144z      | 24 Feb | NR 0171 CK 42 35 0224 1609 BT                                  |                                       | JPL | WED |
|                   |        | NR 0172 CK 292 35 0224 1610 BT                                 |                                       | JPL | WED |
| 1130 - 1201z      | 25 Feb | NR 0175 CK 272 35 0225 1555 BT                                 |                                       | JPL | THU |
|                   |        | NR 0176 CK 44 35 0225 1602 BT                                  |                                       | JPL | THU |
| 0001 - 0022z      | 26 Feb | NR 0177 CK 122 35 0226 0715 BT                                 |                                       | JPL | FRI |
| 1128 - 1200z      | 26 Feb | NR 0179 CK 336 35 0226 1602 BT                                 |                                       | JPL | FRI |
|                   |        | NR 0180 CK 42 35 0226 1609 BT                                  |                                       | JPL | FRI |
| 0001 - 0023z      | 27 Feb | NR 0181 CK 108 35 0227 0718 BT                                 |                                       | JPL | SAT |
|                   |        | NR 0182 CK 42 35 0227 0722 BT                                  |                                       | JPL | SAT |
| 1137 - 0002z      | 27 Feb | NR 0184 CK 290 35 0227 1540 BT                                 |                                       | JPL | SAT |

|                   |                   |  |  |                          |     |     |
|-------------------|-------------------|--|--|--------------------------|-----|-----|
| 8110              | Call sign QV5B    |  |  |                          |     |     |
|                   | 0841z             | 05 Jan   | V 7NPE (x3) DE QV5B (x2) (IP - Cont'd)   | (Remote tuner Hong Kong) | JPL | TUE |
|                   | 0018 - 0019z      | 07 Jan   | NR 2030 NIL SK GB NIL SK GB<br>BT 418/C464/5736/79/77/482/COMM/0034 AR                                   | (Remote tuner Hong Kong) | JPL | THU |
|                   | 0008z             | 12 Jan   | V 7NPE (x3) DE QV5B (x2) (IP - Cont'd)   | (Remote tuner Hong Kong) | JPL | TUE |
|                   | 1000z             | 08 Feb   | V 7NPE (x3) DE QV5B (x2) (IP - Cont'd)   | (Remote tuner Hong Kong) | JPL | MON |
|                   | 0955z             | 10 Feb   | V 7NPE (x3) DE QV5B (x2) (IP - Cont'd)   | (Remote tuner Hong Kong) | JPL | WED |
|                   | 0143z             | 15 Feb   | V 7NPE (x3) DE QV5B (x2) (IP - Cont'd)   | (Remote tuner Hong Kong) | JPL | MON |
| 8888              | Call Sign XSV85   |  |  |                          |     |     |
|                   | 0858 (IP) - 0902z | 24 Jan   | Traffic 3 fig grps - No msg headers logged   | (Remote tuner Hong Kong) | JPL | SUN |
|                   | 1029 (IP) - 1035z | 12 Feb   | Traffic 3-fig grps - No msg headers logged   | (Remote tuner Siberia)   | JPL | FRI |
|                   | 1118 (IP) - 1129z | 23 Feb   | NR 0048 CK 100 24 0215 1044 RMKS<br>NR 0167 CK 255 35 0223 1626 BT                                       | (Remote tuner Hong Kong) | JPL | TUE |
|                   |                   |  | Msg 0167 sent on 8073 M95 sked. Also sent 05 05 05 05 (Further proof that 05 Stations are lined to M95)  |                          |     |     |
| 9054              | 1145 (IP) - 1209z | 14 Feb   | NR 072 24 35 0 214 1650<br>NR 073 19 35 0214 1650<br>NR 083 21 35 0214 1546 BT<br>NR 28 136 35 02A4 A63A | (Remote Hong Kong)       | JPL | SUN |
|                   |                   |  |  |                          | JPL | SUN |
|                   |                   |  |  |                          | JPL | SUN |
|                   |                   |  |  |                          | JPL | SUN |
|                   | 2350 (IP) - 2359z | 14 Feb   | NR 074 CK A85 35 0215 0620 BT  | (Remote tuner Siberia)   | JPL | SUN |
|                   | 0001 (IP) - 0007z | 15 Feb   | NR 075 CK 25 35 0215 0722 BT<br>NR 29 CK 54 35 0215 0813 BT  | (Remote tuner Siberia)   | JPL | MON |
|                   |                   |  |  |                          | JPL | MON |
|                   | 0002 (IP) - 0006z | 19 Feb   | A HR UP SB TWK (0006z - Switched to 8073 M95 sked) (// Not checked)                                      |                          | JPL | FRI |
|                   | 2340 (IP) - 2359z | 20 Feb   | NR 093 CK 19 35 0221 0557 BT<br>NR 096 CK 21 35 0221 0743 BT<br>NR 41 CK 096 35 0221 0726 BT             | (Remote tuner Hong Kong) | JPL | SAT |
|                   |                   |  |  |                          | JPL | SAT |
|                   |                   |  |  |                          | JPL | SAT |
|                   | 2340 (IP) - 0013z | 21 Feb   | NR 41 CK 096 35 0221 0726 BT   | (Remote tuner Hong Kong) | JPL | SUN |
|                   | 2351 (IP) - 2359z | 23 Feb   | NR 002 CK 18 49 0222 0602<br>NR 003 CK 13 35 0224 0627   | (Remote tuner Hong Kong) | JPL | TUE |
|                   |                   |  |  |                          | JPL | TUE |
|                   | 0011 (IP) - 0007z | 24 Feb   | NR 002 CK 19 35 0224 0054 BT<br>NR 47 CK 029 35 0224 0618 BT   | (Remote tuner Hong Kong) | JPL | WED |
|                   |                   |  |  |                          | JPL | WED |
|                   | 2338 - 2357z      | 25 Feb   | NR 09 CK 17 35 0226 0615 BT<br>NR 006 CK 17 35 0226 0624 BT<br>NR 51 050 35 0226 0723 BT                 | (Remote tuner Hong Kong) | JPL | THU |
|                   |                   |  |  |                          | JPL | THU |
| 2340 - 2359z      | 26 Feb            | NR 008 CK 20 35 0227 0634 BT<br>NR 012 CK 14 35 0227 0636 BT<br>NR 53 CK 040 35 0227 0734 BT |  | JPL                      | FRI |     |
|                   |                   |  |  | JPL                      | FRI |     |
| 1144 (IP) - 1152z | 27 Feb            | NR 009 CK 26 35 0227 1520 BT<br>NR 54 CK 161 35 0227 1626 BT                                 | (Remote tuner Hong Kong)   | JPL                      | SAT |     |
|                   |                   |  |  | JPL                      | SAT |     |
|                   |                   |  | <i>(See also 4243/9054kHz listing)</i>   |                          |     |     |
| 9152              | 0935 (IP) - 0957z | 11 Feb   | NR 124 CK 134 35 0211 1715<br>NR 126 CK 256 35 0211 1615   | (Remote tuner Siberia)   | JPL | THU |
|                   |                   |  |  |                          | JPL | THU |

**M95 8073kHz 0001z 07 Jan 2016**

V BNGC (x3) DE XSV85 (x2)  
(IP) Chinese digital 4+4 QPSK 75/3000 - LSB - 0001z  
**BNGC (x3) DE XSV85 (x2)**  
Switched to CW - Cont'd - Hand sent - 0003z  
HR MSG GA (0005z)  
NR NR 0016 CK 107 35 0107 0711 BT BT  
TT7 3U4 3A4 TAU 773 TU5 773 357 4T3 NN3 (Cont'd - 0006z)  
AR MSG AGN (0010z)  
NR 0016 CK 107 35 0107 0711 BT  
TT7 3U4 3A4 TAU 773 TU5 773 357 4T3 NN3 (Cont'd - 0011z)  
AR AR  
(0016z - Switched to voice USB - Female operator)

*Courtesy JPL*

**M95 4284/7554kHz 0914z 06 Jan 2016**

(IP) XSV70 - Just missed call sign - Machine sent  
NR 17 CK 115 35 0106 1554  
TU3 TA4 TT6 3U6 3A5 TT4 773 354 N3D (Cont'd - 0915z)  
AHR MSG AGN  
NR 17 CK 115 35 0106 1554  
TA3 UT3 TT6 3U6 3A4 TT5 773 354 N3D (Cont'd - 0920z)  
AHR MSG GA  
NR 18 CK 196 35 0106 1554  
TA3 UT3 TT6 3U6 TT4 773 3AD 353 U46 35A (Cont'd - 0925z)  
A HR MSG GA  
NR 16 CK 151 35 0106 0700  
TA3 UT3 TT6 3.4 3A4 TT4 773 353 U46 35A (Cont'd - 0941z)  
AHR MSG AGN  
NR 16 CK 151 35 0106 0700  
TA3 UT3 TT6 3U3 3A4 TT4 773 353 U46 35A (Cont'd - 0948z)  
ZNN VA (0953z)

*Courtesy JPL*

## Oddities

We start the 'Oddities' section this time with a report from PoSW, who is a regular contributor to the group with his logs & observation - So over to PoSW;

The "Mystery Beacon", as I call it, is still, at the time of writing in late February, on 10237 kHz telling the world that he is "Common and precious".

**Short-lived Single Letter Transmission "W"**:- 11-Feb-16, Thursday:- 1620 UTC, 8112 kHz, strong CW sending the letter "W" slowly, not noticed before, stopped after 1622 UTC. Left a receiver on 8112 and heard it start up again at 1640 UTC, once more running for just two minutes. Had I paid a bit more attention I might have observed it finishing with the letter "K" which was the case on the following day:-

12-Feb-16, Friday:- 1400 UTC, 8112 kHz, "W" again, stopped after 1402 UTC and after a few seconds sent a single "K". Started again after 1420 UTC, ended after 1422 with a "K", no pause after the two minutes of "W". Started again after 1440 UTC, stopped just before 1442 then after a few seconds sent "W" four more times followed by "K". Looks like two minutes of "W" sent on the hour and at H + 20 minutes and H + 40 minutes. Something else for which it is difficult to see any purpose. Seems to have gone, not heard on subsequent days.

**Russian Woodpecker - or "Son of Russian Woodpecker", or someone else's Woodpecker and not Russian at all** - still very noticeable on the short wave bands. This distinctive pulsing sound, similar to the infamous "Russian Woodpecker" of the later Cold War years is still in business. I first noticed its return in early 2014, so two years ago. A characteristic rapid tapping sound of perhaps ten pulses per second moving up the band in non-uniform steps ranging from perhaps one hundred kHz to several hundred kHz. Not much of a nuisance because it only stays on a frequency for about thirty seconds before jumping up to the next one, just time to centre up the tuning on the receiver as best as one can because it is several kHz wide, and note the frequency.

Throughout 2014 and 2015 I often tracked it out of interest and every once in a while made a note in the log, the last time I bothered to do so in 2015 was on 4-November when I found it on 6795 kHz at 1600 UTC and following it for about ten minutes logged it on 14580 kHz at 1610 UTC. I did a search on that there Inter-Web thing to see if I could find out any further information but came up with very little. One thing seems to be clear is that it cannot be coming from the same site as the original Woodpecker because that location is well known and has long been abandoned and its massive antenna is now just so much scrap metal. Some speculation that it is coming not from Russia but from some other part of the world with a sense of paranoia such that they have established their own over-the-horizon-radar - if that is what it is - using old technology from the Soviet era; North Korea, Iran or China seem to be favourites.

On a few occasions recently, when I have had nothing better to do with my time, I have tracked the Woodpecker up in frequency until it reached the end of its excursion, i.e. it was not found on a higher frequency afterwards, but quickly re-tuning was then found on a much lower frequency and moving up again; for example, on 17-February, 1530 UTC, Woodpecker found on 16190 kHz, then at roughly 30 second intervals on 16260, 16560, 16750 and then 16870 kHz at 1532 UTC. Appeared to dwell on this frequency for well over the usual thirty seconds, perhaps a minute or so, but not found again on a higher frequency once it had departed 16870. However, tuning lower down the short-wave bands and starting an upwards sweep from about 7000 kHz, found the signal on 8740 kHz at 1535 UTC, 8990 at 1535:30s, it was on its way up again.

*Thanks PoSW - Your logs & observations are always appreciated. Keep that ear glued to the radio!*

## S28 'The Buzzer'

Ary (AB) tells us that the buzzer replaced its collective call sign MDZhB with a new one: ZhUOZ from 28 December 2015. This call sign change was also confirmed by Schorschi as demonstrated in his log of a message sent on 10 Jan. Is this a new reorganisation of the Russian defence network - or a continuation of that which is currently ongoing?

Reception of the buzzer on both 4625kHz & the new parallel transmission no 6998kHz is variable in the UK. The signal from 4625kHz being usually audible from late afternoons, while the 6998kHz is less predictable due to conditions - as anyone monitoring the 40m amateur band over the past few months will confirm!

Gary (HJH) was able to hear the 4635kHz signal at a fair strength on the afternoon of Thursday 14 January at this QTH near Cardiff, UK, using his Grundig Eton Satellit 750 with long wire - but couldn't receive the 6998kHz transmission, while Ary (AB) was able to report reception of 6998kHz at 1659 UTC from his Netherlands QTH.

|            |       |        |     |                     |     |         |     |
|------------|-------|--------|-----|---------------------|-----|---------|-----|
| 4625       | PM    | 14 Jan | S28 | 'The Buzzer' Marker | USB | HJH     | THU |
| 4625//6998 | 1659z | 14 Jan | S28 | 'The Buzzer' Marker | USB | AB      | THU |
| 6998       | 1346z | 06 Feb | S28 | 'The Buzzer' Marker |     | E.SMITH | SAT |

## Message Logs (from Schorschi)

|      |  |        |        |  |  |           |     |
|------|--|--------|--------|--|--|-----------|-----|
| 4625 | 1238z  | 10 Jan | Strong |  |  | Schorschi | SUN |
|      | ZhUOZ ZhUOZ 49 441 SDANN Yik 45 21 00 65 ZhUOZ ZhUOZ 49 441 SDANN Yik 45 21 00 65 Prijom! ZhUOZ ZhUOZ 25 172 AGREKOLIT 65 06 50 58 ZhUOZ ZhUOZ 25 172 AGREKOLIT 65 06 50 58 ZhUOZ ZhUOZ 25 172 AGREKOLIT 65 06 50 58 Prijom! |        |        |  |  |           |     |
| 4625 | 1500z  | 28 Jan | Strong |  |  | Schorschi | THU |
|      | ZhUOZ ZhUOZ 74 73 FENOKChILEN ZhUOZ ZhUOZ 74 73 FENOKChILEN Prijom   |        |        |  |  |           |     |
| 4625 | 1618z  | 28 Jan | Strong |  |  | Schorschi | THU |
|      | ZhUOZ ZhUOZ 72 451 OEORA 42 78 59 08 ZhUOZ ZhUOZ 72 451 OEORA 42 78 59 08 Prijom!]   |        |        |  |  |           |     |
| 4625 | 1624z  | 28 Jan | Strong |  |  | Schorschi | THU |
|      | ZhUOZ ZhUOZ 98 670 DIGRIDjA 04 31 69 60 ZhUOZ ZhUOZ 98 670 DIGRIDjA 04 31 69 60 Prijom!]   |        |        |  |  |           |     |

## S32 'Squeaky Wheel'

|      |       |        |  |        |  |           |     |
|------|-------|--------|--|--------|--|-----------|-----|
| 3828 | 1715z | 11 Jan | [... Alpha 45 Alpha 45 18 730 ... Prijom!]         | Good   |  | Schorschi | MON |
|      | 1737z | 18 Jan | [Dlja! ... Kak slyschna Kak slyschna? ... Prijom!] | Strong |  | Schorschi | MON |

**Contributors:** AB, AnonUS, BR, E.SMITH, HFD, HJH, JkC, JPL, PoSW, RNGB, Schorschi, tiNG *Thank you all for your logs.*

**VOICE STATIONS**

**E06 January/February log:**

**First/Third Thursday of month 2030z 4836kHz**

07/01 '321' 237 20 06132 75514 79681 94217 21443 31441 81797 17512 62689 33103 48930 93432 25709 93628 48683  
18809 85052 49870 63962 04884 237 20 00000 - On parade 2 minutes early. (An old repeat)

21/01 '321' 613 20 14259 ... 12250 613 20 00000] Up 2 minutes early. Old, old message! JkC

04/02 '321' 569 20 14259.....12250 569 20 00000] 2036z

18/02 '321' 569 20 14259 ... 12250 569 20 00000]2035z QSA2 QRM1 QSB1 JkC THU  
Old repeat

**Friday following First / Third Thursday 2130z 4760kHz**

22/01 I logged E06 as NRH, went away to make a sandwich, and when I returned there it was, very late, in call up.

2148z '472' 613 20 14259 ... 12250 613 20 00000] 2156z JkC

Old repeat

05/02 '472' 613 20 14259 22676 32782 32782 76723 89409 12215 74326 64070 90235 38085 59543 12319 74238 36664 12256 1  
8841 73311 98089 12250 613 20 00000

**First /Third Thursday (repeats Friday) 0600z 13945kHz 0700z 16350kHz**

07/01 & '139' 862 107 64372 81724 14385 72054 81584 06846 04728 94606 84381 50200 64340 86865 16541 64832 04228 07729 66959 42266 92236 22586  
21/01 68324 49631 57450 19012 44328 09468 07953 89354 91351 51891 10413 22402 05555 93811 04920 71320 91318 24889 53519 90049  
11975 04914 45862 55344 68749 02303 10436 16645 18878 28395 04789 40967 68804 47236 83202 45004 03433 65534 65237 31617  
37332 32490 53601 72907 98869 04163 74764 07069 83177 52089 40773 41181 34911 20815 55688 77161 46732 64051 15089 03037  
84446 14125 72083 16749 74743 64416 68259 74654 16467 69477 53017 81922 01366 92512 39710 67021 55244 54905 72049 07464  
35468 67486 99192 99016 45756 48234 82966 00000] 0722z

**0600z 17470kHz 0700z 20085kHz**

04/02 & '702' 568 134 85807 19320 26282 40263 61886.....37942  
18/02

**Other transmissions: 1730z 8157kHz**

17/02 '343' (4 mins) 681 57 09993 06272 ..... 61122] Very Strong Topol WED

**Transcript:**

'343' 681 57 09993 06272 10955 82060 57440 65439 45253 89906 98641 82370 89884 39807 16148 81312 98583  
37917 03117 14946 44200 70726 78200 82565 28359 47117 64593 69063 95126 60442 69176 84401 47118 62813 22695  
08258 87481 68778 66909 69536 36203 30587 99662 15429 94162 52220 13787 49716 53380 34381 90795 44991 76894  
67626 35308 58498 96702 15834 61122 681 57 00000

**1700z 10423kHz 1730z 8167kHz**

24/02 '801' 269 53 23984 ... 89782 269 53 00000] 1713z QSA4 QRM1 QSB2 JkC WED

**Transcript:**

'801' 269 53 23984 51833 37184 07381 65157 60863 62914 62665 93391 54374 58471 11993 55461 30469 10531 44580  
51627 36317 59313 58377 30889 88193 17520 48514 01974 70132 82343 61076 70970 65874 13972 79404 41570 03812  
79042 35098 38838 19600 82470 60916 42461 66138 36098 27757 40402 25603 37590 32909 38905 03212  
58028 31760 89782 269 53 00000

Thanks: RNGB, Ed Smith, JkC, Topol

**PoS/W reports:**

**First + Third Thursdays in the Month 2030 UTC Schedule** – although usually starts well before the half-hour:-

7-Jan-16:- 4,836 kHz, started 2028 UTC, calling "321", DK/GC "237 237 20 20". Not the twenty 5F groups starting with, "14259 22676 32782 twice..." which has been used many times over the past couple of years, but the one starting with, "06132 75514 796813..." which has been used more by the related G06 German schedules.

21-Jan-16:- 4,836 kHz, call "321" in progress when tuned in at 2029 UTC, DK/GC "613 613 20 20", and this evening the 5Fs were the sequence beginning, "14259 22676..", so not the same as on the 7<sup>th</sup>.

4-Feb-16:- 4,836 kHz, started a few seconds late for a change, call "321", DK/GC "569 569 20 20", 5Fs, "14259 22676 32782 32782..." and so on.

**Friday 2130 UTC Schedule Following First + Third Thursdays in the Month** - the above remarks concerning flexible start time apply here also:-

8-Jan-16:- 4,760 kHz, started about two minutes before the half-hour, call "472", DK/GC the much used "14259 22676 32782 32782...." sequence.

5-Feb-16:- 4,760 kHz, started after the half-hour, call "472", DK/GC "613 613 20 20" and, "14259 22676.....".

19-Feb-16:- 4,760 kHz, started early, "472" and "613 613 20 20" and 5Fs as on the 5<sup>th</sup>.  
Signal weaker than usual, sinking into the local noise QRM.

## **E07**

Not much new here, the known schedules continue to appear on the expected frequencies, that is the same as in the past few years for any particular month, and the low audio problem still makes copy difficult, especially where signals are not too strong.

### **Sunday + Wednesday Schedule, 1800 UTC Start:-**

3-Jan-16, Sunday:- 1800 UTC, 8,194 kHz, "172 172 172 000", weak signal with low audio level, difficult copy.  
1820 UTC, 6,794 kHz, second sending, also with low audio.

6-Jan-16, Wednesday:- 1800 UTC, 8,194 kHz, very low audio, unreadable, carrier went off just before 1802:30s UTC which means, "no message".  
1820 UTC, 6,794 kHz, "172 172 172 000", audio low but readable.

10-Jan-16, Sunday:- 1800 UTC, 8,194 kHz, weak signal with low audio, carrier off before 1802:30s UTC.  
1820 UTC, 6,794 kHz, "172 172 172 000", much better signal than first sending, no problem to copy.

17-Jan-16, Sunday:- 1800 UTC, 8,194 kHz, "172 172 172 000", S9 with low audio.

24-Jan-16, Sunday:- 1800 UTC, 8,194 kHz, "172 172 172 000", S9 with deep QSB, audio low but readable.  
1820 UTC, 6,794 kHz, second sending, much weaker signal, usually this is stronger than the 1800z.

3-Feb-16, Wednesday:- 1800 UTC, 10,219 kHz, very low audio, unreadable, carrier went off just before 1802:30s UTC, "No message", then.  
1820 UTC, 9,119 kHz, second sending, also with unreadable audio.

10-Feb-16, Wednesday:- 1820 UTC, 9,119 kHz, second sending, "215 215 215 000", S9 carrier, audio very low.

14-Feb-16, Sunday:- 1800 UTC, 10,219 kHz, "215 215 215 000", S9, audio just a little bit better than usual.  
1820 UTC, 9,119 kHz, second sending, S9 with deep rapid QSB.

17-Feb-16, Wednesday:- 1800 UTC, 10,219 kHz, "215 215 215 000", S9, audio better than most transmissions in recent times.  
1820 UTC, second sending, audio low but readable.

21-Feb-16, Sunday:- 1800 UTC, 10,219 kHz, "215 215 215 000", S9, reasonable - that is to say readable - audio. Not much traffic for E07 agents so far this year!

### **Monday + Wednesday Schedule, 2000 UTC Start:-**

6-Jan-16, Wednesday:- 2000 UTC, 6,982 kHz, "981 981 981 1" for a full message, DK/GC "914 74" x 2, reasonable audio, strong "XJT" churning away on the LF side.  
2020 UTC, 5,882 kHz, second sending, suffering from a BC station on 5,885.  
2040 UTC, 5,182 kHz, third sending, over S9 with deep QSB.

18-Jan-16, Monday:- 2000 UTC, 6,982 kHz, very weak signal, unreadable, carrier went off just before 2002:30s UTC.  
2020 UTC, 5,882 kHz, "981 981 981 000", S9 carrier but with very low audio.

27-Jan-16, Wednesday:- 2020 UTC, 5,882 kHz, very low audio and BC interference, carrier off just before 2022:30s UTC.

1-Feb-16, Monday:- 2000 UTC, 7,724 kHz, "798 798 798 000", audio low but readable.  
2020 UTC, 6,924 kHz, second sending, also with low audio.

8-Feb-16, Monday:- 2000 UTC, 7,724 kHz, and 2020 UTC, 6,924 kHz, both S9, audio low but readable, "798 798 798 000".

10-Feb-16, Wednesday:- 2000 UTC, 7,724 kHz, very weak signal, unreadable, carrier off just before 2002:30s UTC.  
2020 UTC, 6,924 kHz, also very weak and unreadable.

22-Feb-16, Monday:- 2020 UTC, 6,924 kHz, second sending, "798 798 798 000", audio low but readable.

### **Thursday Schedule, 2110 UTC Start:-**

7-Jan-16:- 2110 UTC, 6,777 kHz, weak signal and low audio, unreadable.  
2130 UTC, 5,449 kHz, S9 carrier and low audio, could just make out the "000".

21-Jan-16:- 2110 UTC, 6,777 kHz, weak signal and low audio.  
2130 UTC, 5,449 kHz, second sending, audio low but readable, "744 744 744 000".

4-Feb-16:- 2110 UTC, 6,777 kHz, "744 744 744 000", low audio, strong FSK signal on close frequency and an "XJT" churning away.  
2130 UTC, 5,449 kHz, second sending, carrier over S9 but audio very low.

11-Feb-16:- 2110 UTC, 6,777 kHz, "744 744 744 000", audio low, the "XJT" still in attendance.  
2130 UTC, 5,449 kHz, S9 but audio low.

[Txn PoSW]

**Other's Logs follow overleaf .....**

**E07 continued .....**

**Sunday/Wednesday**

**January 2016**

| 1800z | 8194kHz       | 1820z | 6794kHz | 1840z       | 5294kHz |                |
|-------|---------------|-------|---------|-------------|---------|----------------|
| 03/01 | 172 000       |       |         |             |         | Very weak      |
| 10/01 | 172 000       |       |         |             |         | Weak           |
| 13/01 | caerreir only |       |         | [1800z NRH] |         | Weak           |
| 17/01 | 172 000       |       |         |             |         | Weak, poor mod |
| 20/01 | 172 000       |       |         |             |         | Weak           |
| 24/01 | 172 000       |       |         |             |         | Weak           |
| 27/01 | 172 000       |       |         |             |         | Weak           |
| 31/01 | Unworkable    |       |         |             |         |                |

**February 2016**

| 1800z | 10219kHz     | 1820z | 9119kHz      | 1840z | 7519kHz |             |
|-------|--------------|-------|--------------|-------|---------|-------------|
| 03/02 | Carrier only |       | [1800/1820z] |       |         | Weak        |
| 17/02 | 215 000      |       |              |       |         | Strong      |
| 24/02 | 215 000      |       |              |       |         | Very strong |
| 28/02 | 215 000      |       |              |       |         | Fair        |

**Monday/Wednesday**

**January 2016**

| 2000z | 6982kHz                              | 2020z | 5882kHz                | 2040z                   | 5182kHz |      |
|-------|--------------------------------------|-------|------------------------|-------------------------|---------|------|
| 04/01 | 981 1 914 74 57490 (unworkable) 000  |       |                        |                         |         | Weak |
| 06/01 | 981 1 914 74 57490 ... 48286 000 000 |       |                        | [2000/2020z unworkable] |         | Weak |
| 11/01 | 981 000                              |       | [202z BCQRM5]          |                         |         | Fair |
| 13/01 | carrier, no mod                      |       | [2000z NRH]            |                         |         | Weak |
| 20/01 | 981 000                              |       | [2000z Very low audio] |                         |         | Weak |
| 27/01 | 981 000                              |       | [2020z NRH]            |                         |         | Weak |

**February 2016**

| 2000z | 7724kHz | 2020z | 6942kHz | 2040z                      | 5824kHz |                 |
|-------|---------|-------|---------|----------------------------|---------|-----------------|
| 01/02 | 798 000 |       |         | [Fair carrier, poor audio] |         | Weak            |
| 03/02 | NRH     |       |         | [2000/2020z]               |         |                 |
| 08/02 | 798 000 |       |         |                            |         | Weak audio      |
| 17/02 | 798 000 |       |         |                            |         | Low audio, fair |
| 24/02 | 798 000 |       |         |                            |         | Very strong     |

**Wednesday/Saturday**

**January 2016**

**0700z 8123kHz 0720z 9323kHz 0740z 1 10423kHz**

09/01 134 1 123 42 29216 50219 ... 26510 73992 000 000

134 1 123 42  
29216 50219 68239 38144 88342 13038 72768 75490 58901 87831  
59630 39932 14128 98966 89005 32580 07427 62024 81470 44154  
84081 56984 77158 89063 48426 27589 30879 43337 55913 21752  
26166 81711 10562 53251 16217 75058 94326 97465 93015 55578  
26510 73992 000 000 *Courtesy Edd*

13/01 134 1 123 42 29216 ... 73992 000 000

16/01 134 1 123 42 29216 ... 73992 000 000

30/01 134 000

**February 2016**

**0700z 10112kHz 0720z 11112kHz 0740z 12112/13112kHz**

03/02 111 000

06/02 111 000

Very strong

10/02 111 000

Very strong[Twente]

13/02 111 000

Fair

17/02 111 000

20/02 111 000

Weak

**Thursday**

**January 2016**

**2110z 6777kHz 2130z 5449kHz 2150z 4483kHz**

07/01 744 000 [2110z NRH]

Weak

21/01 744 000

Weak

28/01 744 000

Weak

**February 2016**

04/02 Carrier only

Very strong

11/02 744 000

Poor audio, weak

24/02 111 000 [0700z Fair, QRM3]

Strong

25/02 744 000

Strong

**E07a**

**Wednesday**

**January 2016**

**2100z 5877kHz 2120z 5277kHz 2120z 4577kHz**

06/01 825 1 11602 7516 71 98360 ... 51548 000 000

Fair

13/01 825 000

Fair to strong

20/01 825 1 16663 5808 77 26844 ... 66374 000 000 [2140z V.weak]

Very strong

825 1 16663 5808 77  
26844 79958 85809 52670 92803 36793 33635 63414 22561 46908  
12705 39705 28418 75075 30986 02873 41751 94986 32098 16763  
60768 38560 57683 30121 42688 40134 26384 17716 53664 89036  
34343 54495 57018 66104 84917 61362 67951 42329 31157 38006  
12966 92254 59092 96674 31810 04579 33360 24453 90958 72357  
85649 73928 62084 68625 39684 13171 86480 36433 00120 62920  
24502 48231 26149 52328 59458 14215 55538 99730 16495 54179  
67667 97854 36759 01485 62734 20334 66374  
000 000 *Courtesy JkC*

27/01 825 000

Strong

**E07a continued .....**

**February 2016**

|       |   |                |                    |
|-------|---|----------------|--------------------|
| 03/02 | 825 1 16663 5808 77 26844 ... 66374 000 000 | [Rpt of 20/01] | Strong             |
| 10/02 | 825 000                                     |                | Very strong, noisy |
| 17/02 | 825 000                                     |                | Weak, QRN2         |
| 24/02 | 825 000                                     |                | Strong, QSB2       |

**Thursday**

**January 2016**

| 0530z | 5111kHz                                     | 0550z | 5811kHz | 0610z | 6911kHz        |                  |
|-------|---|-------|---------|-------|----------------|------------------|
| 07/01 | 189 1 11602 7516 71 98360 ... 51548 000 000 |       |         |       |                | Extremely strong |
| 14/01 | 189 000                                     |       |         |       |                | Very strong      |
| 21/01 | 189 1 16663 5808 77 26844 ... 66374 000 000 |       |         |       | [0530z V.weak] | Strong           |
| 28/01 | 189 000                                     |       |         |       |                | Extremely strong |

**February 2016**

|       |   |                 |                |
|-------|---|-----------------|----------------|
| 04/02 | 189 1 16663 5808 77 26844 ... 66374 000 000 | [Rpt of 21/01]  | Very strong    |
| 11/02 | 189 000                                     | [0550z TTYQRM2] | Very strong    |
| 18/02 | 189 000                                     |                 | Fair, QRN2     |
| 25/02 | 189 000                                     |                 | Fair and noisy |

**Friday**

**January 2016**

| 1610z | 7632kHz                                    | 1630z | 6832kHz | 1650z | 5832kHz |             |
|-------|--|-------|---------|-------|---------|-------------|
| 01/01 | 688 000                                    |       |         |       |         | Very strong |
| 08/01 | 688 000                                    |       |         |       |         | Fair        |
| 15/01 | 688 1 32511 613 65 34090 ... 59817 000 000 |       |         |       |         | Very strong |

688 1 32511 613 65  
 34090 44631 75042 19719 14797 62543 53517 52587 16103 24659  
 47798 73789 01004 26625 70083 18025 18979 63760 53649 00529  
 37994 72102 80314 87093 30289 94700 07375 19137 46249 25797  
 41255 59271 40863 37478 34805 89424 10811 41090 55301 89210  
 84627 33245 11117 24266 68508 49251 41495 43078 99644 53693  
 53791 19732 64770 40867 05686 36971 19344 94317 49911 31814  
 33097 44599 72959 96271 59817  
 000 000 *Courtesy JkC*

|       |         |  |  |  |  |        |
|-------|---------|--|--|--|--|--------|
| 22/01 | 688 000 |  |  |  |  | Fair   |
| 29/01 | 688 000 |  |  |  |  | Strong |

**February 2016**

| 1610z | 9347kHz                                     | 1630z | 8147kHz | 1650z | 6847kHz |             |
|-------|---|-------|---------|-------|---------|-------------|
| 05/02 | 318 000                                     |       |         |       |         | Fair        |
| 12/02 | 318 1 61714 7921 55 47319 ... 53083 000 000 |       |         |       |         | Very strong |
| 19/02 | 318 000                                     |       |         |       |         | Strong      |
| 26/02 | 318 1 10197 7285 71 05645 ... 93370 000 000 |       |         |       |         | Fair/strong |

## Saturday

### January 2016

| 0900z | 11123kHz                                   | 0920z | 12123kHz | 0940z | 13423kHz    |             |
|-------|--|-------|----------|-------|-------------|-------------|
| 02/01 | 114 000                                    |       |          |       | [0920z NRH] | Fair, QSB3  |
| 09/01 | 114 000                                    |       |          |       | [0920z NRH] | Fair, noisy |
| 16/01 | 114 1 32511 613 65 34095 ... 59817 000 000 |       |          |       | [0920z NRH] | Very strong |
| 23/01 | 114 000                                    |       |          |       | [0920z NRH] | Fair        |
| 30/01 | 114 000                                    |       |          |       |             | Strong      |

### February 2016

| 0900z | 11053kHz                                    | 0920z | 12153kHz | 0940z | 13553kHz                     |             |
|-------|---|-------|----------|-------|------------------------------|-------------|
| 06/02 | 015 000                                     |       |          |       |                              | Fair        |
| 13/02 | 015 1 61714 7921 55 47319 ... 53083 000 000 |       |          |       | [0920z QRM4 nr final, OTHR?] | Strong      |
| 20/02 | 015 000                                     |       |          |       |                              | Very weak   |
| 27/02 | 015 1 10197 7285 71 06545 ... 93770 000 000 |       |          |       | [0940z weak]                 | Fair/strong |

Of E07a PoSW writes: The two E07a schedules which I monitor continue in 2016.

#### Saturday Schedule, 0900 UTC Start:-

2-Jan-16:- 0900 UTC, 11,123 kHz, "114 114 114 000", S8 SSB signal.

0920 UTC, 12,123 kHz, second sending, also S8.

9-Jan-16:- 0920 UTC, 12,123 kHz, missed 0900Z sending, "114 114 114 000", S8.

16-Jan-16:- 0900 UTC, 11,123 kHz, full message this morning, "114 114 114 1 32511", DK/GC "613 65" x 2, signal strength S7.

0920 UTC, 12,123 kHz, second sending, stronger, peaking S9.

0940 UTC, 13,423 kHz, third sending, also peaking S9.

6-Feb-16:- 0900 UTC, 11,053 kHz, "015 015 015 000", weak signal down in the noise.

0920 UTC, 12,153 kHz, second sending, much stronger, peaking S8.

13-Feb-16:- 0900 UTC, 11,053 kHz, full message, "015 015 015 1 61714", DK/GC "7921 55" x 2, much stronger signal than last time, S8 to S9.

0920 UTC, 12,153 kHz, second sending, peaking over S9.

0940 UTC, 13,553 kHz, third sending, also S9 or over.

#### Wednesday Schedule, 2100 UTC Start:-

6-Jan-16:- 2100 UTC, 5,877 kHz, "825 825 825 1 11602" for a full message. DK/GC "7516 71" x 2, over S9 SSB signal.

2120 UTC, 5,277 kHz, and 2140 UTC, 4,577 kHz, repeat transmissions, both S9+.

20-Jan-16:- 2100 UTC, 5,877 kHz, another full message, "825 825 825 1 16663", DK/GC "5808 77" x 2, over S9.

2120 UTC, 5,277 kHz, and 2140 UTC, 4,577 kHz, S9+ repeats.

27-Jan-16:- 2100 UTC, 5,877 kHz, and 2120 UTC, 5,277 kHz, both S9+, "825 825 825 000".

3-Feb-16:- 2100 UTC, 5,877 kHz, the return of the message heard on 20-Jan, "825 825 825 1 16663", and "5808 77".

2120 UTC, 5,277 kHz, and 2140 UTC 4,577 kHz, the repeats, all three transmissions somewhat weaker signals than usual

#### E11 log Jan/Feb

|         |       |  |  |           |     |
|---------|-------|--|--|-----------|-----|
| 4505kHz | 1605z | 03/01 [232/00]                               |  | Gert      | SUN |
|         | 1605z | 10/01 [232/00] Out 1608z S9                  |  | Malc      | SUN |
|         | 1605z | 17/01 [232/00] Out 1608z S9                  |  | Malc      | SUN |
|         | 1605z | 26/01 [232/00] Out 1608z S8                  |  | Malc      | TUE |
|         | 1605z | 31/01 [232/00] Out 1608z S9+10               |  | Malc      | SUN |
|         | 1605z | 02/02 [232/00] Out 1608z                     |  | Ed Smith  | TUE |
|         | 1605z | 07/02 [232/00]                               |  | Malc      | SUN |
|         | 1605z | 09/02 [232/00] Out 1608z S5                  |  | Malc      | TUE |
|         | 1605z | 16/02 [232/00] Out 1608z                     |  | Ed Smith  | TUE |
| 5082kHz | 1730z | 07/01 [416/00] Out 1733z QSA5 QRM1 QRN2 QSB2 |  | Thomas    | THU |
|         | 1730z | 21/01 [416/00]                               |  | RNGB      | THU |
|         | 1730z | 28/01 [416/00] Out 1733z S7                  |  | Malc, JkC | THU |
|         | 0450z | 01/02 [416/00] Out 0453z                     |  | Ed Smith  | MON |
|         | 1730z | 04/02 [416/00] Out 1733z S8                  |  | Malc      | THU |
|         | 0450z | 08/02 [416/00] Out 0453z                     |  | Ed Smith  | MON |
|         | 0450z | 15/02 [416/00] Out 0453z                     |  | Ed Smith  | MON |
|         | 1730z | 18/02 [416/00] Out 1733z QSA4 QRM1 QSB1      |  | JkC       | THU |

|         |   |   |                |     |
|---------|---|---|----------------|-----|
| 5409kHz | 1530z                                   | 07/01 [262/00] Good                         | RNGB           | THU |
|         | 1530z                                   | 21/01 [262/00] Out 1533z S9                 | Malc           | THU |
|         | 1530z                                   | 28/01 [262/00] Out 1533z S7                 | Malc , JkC     | THU |
|         | 1530z                                   | 11/02 [262/00] Out1533z S7                  | Malc           | THU |
|         | 1530z                                   | 18/02 [262/00]                              | Gary H         | THU |
| 5779kHz | 0315z                                   | 27/01 [253/00] Out 0318z Strong, QRM3, QSB2 | PLondon        | WED |
|         | 0315z                                   | 28/01 [253/00]                              | PLondon        | THU |
|         | 0315z                                   | 10/02 [253/00] Out 0318z Very strong        | PLondon        | WED |
|         | 0315z                                   | 18/02 [253/00] Out 0318z                    | Ed Smith       | THU |
| 6304kHz | 2000z                                   | 01/01 [576/00] Out 2003z QSA4 QRM1 QSB1     | JkC, Malc      | FRI |
|         | 2000z                                   | 22/01 [576/00] Out 2003z QSA4 QRM1 QSB3     | JkC            | FRI |
|         | 2000z                                   | 12/02 [576/00] Out 2003z S5                 | Malc           | FRI |
|         | 2000z                                   | 19/02 [576/00] Out 2003z QSA3 QRM1 QSB1     | JkC            | FRI |
| 6940kHz | 0820z                                   | 11/01 [438/00]                              | RNGB           | MON |
|         | 0820z                                   | 21/01 [438/00]                              | RNGB           | THU |
|         | 0820z                                   | 04/02 [438/00]                              | RNGB           | THU |
|         | 0820z                                   | 08/02 [438/00] Out 0823z                    | Ed Smith       | MON |
|         | 0820z                                   | 22/02 [438/00] Fair                         | RNGB           | MON |
| 7840kHz | 0645z                                   | 07/01 [517/00] Out 0648z                    | Ed Smith       | THU |
|         | 0645z                                   | 12/01 [517/00] Out 0648z                    | Ed Smith       | TUE |
|         | 0645z                                   | 21/01 [517/00] Good                         | RNGB           | THU |
|         | 0645z                                   | 02/02 [517/00]                              | RNGB           | TUE |
|         | 0645z                                   | 16/02 [517/00] Out 0648z                    | Ed Smith       | TUE |
| 7984kHz | 1205z                                   | 05/01 [469/00] Fair                         | RNGB           | TUE |
|         | 1205z                                   | 12/01 [469/00] Out 1208z                    | Ed Smith, Malc | TUE |
|         | 1205z                                   | 19/01 [469/00] Out 1208z S2                 | Malc           | TUE |
|         | 1205z                                   | 20/01 [469/00] Out 1208z S3                 | Malc           | WED |
|         | 1205z                                   | 02/02 [469/00] Out 1208z                    | Ed Smith       | TUE |
|         | 1205z                                   | 03/02 [469/00]                              | RNGB           | WED |
|         | 1205z                                   | 09/02 [469/00] Out 1208z S9                 | Malc           | TUE |
|         | 1205z                                   | 10/02 [469/00] Out 1208z S5                 | Malc           | WED |
| 8196kHz | 1450z                                   | 11/02 [441/00] Good                         | RNGB           | THU |
|         | 1450z                                   | 16/02 [441/00] Out 1453z                    | Ed Smith       | TUE |
|         | 1450z                                   | 18/02 [441/00]                              | RNGB           | THU |
| 9443kHz | 1705z                                   | 02/01 [392/00] Out 1708z S9                 | Malc           | SAT |
|         | 1705z                                   | 06/01 [392/00] Out 1708z QSA3 QRM1 QSB1     | JkC            | WED |
|         | 1705z                                   | 09/01 [392/00] Fair                         | RNGB           | SAT |
|         | 1705z                                   | 13/01 [392/00] Out 1708z S4                 | Malc           | WED |
|         | 1705z                                   | 16/01 [392/00] Out 1708z S3                 | Malc           | SAT |
|         | 1705z                                   | 27/01 [392/00]                              | Gary H, Malc   | WED |
|         | 1705z                                   | 10/02 [392/00] Out 1708z S9+10              | Malc           | WED |
|         | 1705z                                   | 13/02 [392/00] Out 1708z                    | Ed Smith       | SAT |
|         | 1705z                                   | 17/02 [392/00] Out 1708z QSA3 QRM1 QSB1     | JkC            | WED |
| 1705z   | 24/02 [392/00] Out 1708z QSA4 QRM1 QSB1 | JkC   | WED            |     |
| 9446kHz | 0830z                                   | 01/01 [649/00] Out 0833z S2                 | Malc           | FRI |
|         | 0830z                                   | 04/01 [649/00] Good                         | RNGB           | MON |
|         | 0900z                                   | 04/01 [534/00] Good                         | RNGB           | MON |
|         | 0830z                                   | 18/01 [649/00]                              | RNGB           | MON |
|         | 0900z                                   | 20/01 [534/00]                              | RNGB           | WED |
|         | 0830z                                   | 22/01 [649/00] Out 0833z S4                 | Malc           | FRI |
|         | 0830z                                   | 25/01 [649/00] Out 0833z S8                 | Malc           | MON |
|         | 0900z                                   | 25/01 [534/00] Good                         | RNGB, Malc     | MON |
|         | 0830z                                   | 29/01 [649/00] Out 0833z                    | Ed Smith       | FRI |
|         | 0830z                                   | 08/02 [649/00] Out 0833z S6                 | Malc           | MON |
|         | 0900z                                   | 08/02 [534/00] Out 0903z S6                 | Malc           | MON |
|         | 0900z                                   | 10/02 [534/00] Out 0903z S6                 | Malc           | WED |
|         | 0830z                                   | 12/02 [649/00] Out 0833z S7                 | Malc           | FRI |
|         | 0900z                                   | 15/02 [534/00] Out 0903z                    | Ed Smith       | MON |
|         | 0900z                                   | 17/02 [534/00] Out 0903z                    | Ed Smith       | WED |
|         | 0830z                                   | 29/02 [649/00] Out 0833z S5                 | Malc           | MON |
|         | 0900z                                   | 29/02 [534/00] Out 0903z S6                 | Malc           | MON |

|          |       |   |  |                |     |
|----------|-------|---|--|----------------|-----|
| 9950kHz  | 0930z | 06/01 [270/00]                          |  | RNGB           | WED |
|          | 0930z | 13/01 [270/00] Out 0933z                |  | Ed Smith, Malc | WED |
|          | 0930z | 14/01 [270/00] Out 0748z S5             |  | Malc           | THU |
|          | 0930z | 27/01 [270/00] Out 0933z S7             |  | Malc           | WED |
|          | 0930z | 28/01 [270/00] Out 0933z S3             |  | Malc           | THU |
|          | 0930z | 04/02 [270/00] Out 0933z S6             |  | Malc           | THU |
|          | 0930z | 10/02 [270/00] 0933z                    |  | Ed Smith       | WED |
|          | 0930z | 11/02 [270/00] Out 0933z S7             |  | Malc           | THU |
|          | 0930z | 18/02 [270/00]                          |  | RNGB           | THU |
| 10213kHz | 0745z | 04/01 [262/00] Out 0748z S7             |  | Malc           | MON |
|          | 0745z | 18/01 [262/00] Out 0748z S7             |  | Malc           | MON |
|          | 0745z | 25/01 [262/00] Out 0748z S5             |  | Malc           | MON |
|          | 0745z | 01/02 [262/00] Out 0748z S4             |  | Malc, Ed Smith | MON |
|          | 0745z | 08/02 [262/00] Out 0748z S6             |  | Malc           | MON |
|          | 0745z | 08/02 [262/00] Out 0748z                |  | Ed Smith       | MON |
|          | 0745z | 15/02 [262/00] Out 0748z                |  | Ed Smith       | MON |
|          | 0745z | 29/02 [262/00] Out 0748z S8             |  | Malc           | MON |
| 10429kHz | 0805z | 03/01 [311/00]                          |  | RNGB           | SUN |
|          | 0805z | 06/01 [311/00] Out 0808z S8             |  | Malc           | WED |
|          | 0805z | 13/01 [311/00] Out 0808z                |  | Ed Smith, Malc | WED |
|          | 0805z | 17/01 [311/00] Out 0808z S5             |  | Malc           | SUN |
|          | 0805z | 20/01 [311/00]                          |  | RNGB           | WED |
|          | 0805z | 24/01 [311/00]                          |  | RNGB           | SUN |
|          | 0805z | 10/02 [311/00] Out 0808z S9             |  | Malc           | WED |
|          | 0805z | 17/02 [311/00] Out 0808z                |  | Ed Smith       | WED |
|          | 0805z | 24/02 [311/00]                          |  | RNGB           | WED |
| 10448kHz | 1625z | 03/01 [972/00] Out 1628z S2             |  | Malc           | SUN |
|          | 1625z | 06/01 [972/00] Out 1628z QSA3 QRM1 QSB1 |  | JkC            | WED |
|          | 1625z | 24/01 [972/00] Out 1628z S2             |  | Malc           | SUN |
|          | 1625z | 27/01 [972/00]                          |  | Gary H, Malc   | WED |
|          | 1625z | 31/01 [972/00] Out 1628z S9             |  | Malc           | SUN |
|          | 1625z | 03/02 [972/00]                          |  | RNGB           | WED |
|          | 1625z | 07/02 [972/00] Out 1628z S4             |  | Malc           | SUN |
|          | 1625z | 10/02 [972/00] Out 1628z S7             |  | Malc           | WED |
|          | 1625z | 24/02 [972/00] Out 1628z QSA4 QRM1 QSB1 |  | JkC            | WED |
|          | 1625z | 28/02 [972/00] Out 1628z S9+10          |  | Malc           | SUN |
| 10800kHz | 0710z | 12/01 [633/00] Out 0713z                |  | Ed Smith       | TUE |
|          | 0710z | 26/01 [633/00] Out 0713z S9             |  | Malc           | TUE |
|          | 0710z | 02/02 [633/00] Out 0713z                |  | Ed Smith       | TUE |
|          | 0710z | 05/02 [633/00] Out 0713z S6             |  | Malc           | FRI |
|          | 0710z | 16/02 [633/00] Out 0713z                |  | Ed Smith       | TUE |
| 11107kHz | 2005z | 02/01 [363/00] Out 2008z S2             |  | Malc           | SAT |
|          | 2005z | 13/02 [363/00] Out 2008z QSA2 QRN4      |  | Ed Smith       | SAT |
| 12153kHz | 1045z | 12/01 [576/00] Out 1048z                |  | Ed Smith, Malc | TUE |
|          | 1045z | 19/01 [576/00]                          |  | RNGB           | TUE |
|          | 1045z | 09/02 [576/00] Out 1048z S7             |  | Malc           | TUE |
|          | 1045z | 16/02 [576/00] Out 1048z                |  | Ed Smith       | TUE |
| 12924kHz | 0710z | 09/01 [491/00] Out 0712z QSA1           |  | Ed Smith       | SAT |
|          | 0710z | 28/01 [491/00] Out 0713z QSA2           |  | Ed Smith       | THU |
|          | 0710z | 04/02 [491/00]                          |  | RNGB           | THU |
|          | 0710z | 11/02 [491/00] Good                     |  | RNGB           | THU |
| 13046kHz | 0600z | 29/01 [181/00] Out 0603z                |  | Ed Smith       | FRI |
|          | 0600z | 01/02 [181/00] Out 0603z QSA2           |  | Ed Smith       | MON |
|          | 0600z | 15/02 [181/00] Out 0603z                |  | Ed Smith       | MON |
| 14666kHz | 1345z | 02/01 [911/00] Weak                     |  | RNGB           | SAT |
|          | 1345z | 12/01 [911/00] Out 1348z                |  | Ed Smith, Malc | TUE |
|          | 1345z | 23/01 [911/00] Out 1348z S7             |  | Malc           | SAT |
|          | 1345z | 26/01 [911/00] Out 1348z S6             |  | Malc           | TUE |
|          | 1345z | 30/01 [911/00] Out 1348z                |  | Ed Smith       | SAT |
|          | 1345z | 02/02 [911/00] Out 1348z                |  | Ed Smith       | TUE |
|          | 1345z | 06/02 [911/00] Out 1348z S7             |  | Malc           | SAT |
|          | 1345z | 09/02 [911/00] Out 1348z S9             |  | Malc           | TUE |

|                                |       |  |                |     |
|--------------------------------|-------|--|----------------|-----|
| 15632kHz                       | 1540z | 03/01 [228/00] Out 1543z S1  | Malc           | SUN |
|                                | 1540z | 04/01 [228/00] Out 1543z S2  | Malc           | MON |
|                                | 1540z | 21/02 [228/00] Good  | RNGB           | SUN |
|                                | 1540z | 28/02 [228/00] Out 1543z S8  | Malc           | SUN |
|                                | 1540z | 29/02 [228/00] Out 1543z S2  | Malc           | MON |
| 16112kHz                       | 0745z | 07/01 [335/00] Out 0748z S2  | Malc           | TUE |
|                                | 0745z | 26/01 [335/00] Out 0748z S2  | Malc           | TUE |
|                                | 0745z | 28/01 [335/00] Out 0748z S2  | Malc           | THU |
|                                | 0730z | 29/01 [352/00] Out 0733z   | Ed Smith       | FRI |
|                                | 0745z | 04/02 [335/00] Out 0748z S2  | Malc           | THU |
|                                | 0730z | 05/02 [352/00] Out 0733z S2  | Malc           | FRI |
|                                | 0745z | 09/02 [335/00] Out 0748z S2  | Malc           | TUE |
|                                | 0745z | 11/02 [335/00] Out 0748z S9  | Malc           | THU |
|                                | 0730z | 12/02 [352/00] Out 0713z   | Ed Smith       | FRI |
|                                | 0745z | 16/02 [335/00] Out 0748z   | Ed Smith       | TUE |
| 18030kHz                       | 1300z | 12/01 [133/00] Out 1303z S3  | Malc           | TUE |
|                                | 1300z | 13/01 [133/00] Out 1303z S9  | Malc           | WED |
|                                | 1300z | 19/01 [133/00] Out 1303z S2  | Malc           | TUE |
|                                | 1300z | 20/01 [133/00] Out 1303z S2  | Malc           | WED |
|                                | 1300z | 26/01 [133/00] Out 1303z S2  | Malc           | TUE |
|                                | 1300z | 27/01 [133/00] Out 1303z S2  | Malc           | WED |
|                                | 1300z | 09/02 [133/00] Out 1303z S8  | Malc           | TUE |
|                                | 1300z | 10/02 [133/00] Out 1303z S9+10   | Malc           | WED |
| 20167kHz                       | 1225z | 08/02 [521/00] Out 1228z   | Ed Smith       | MON |
|                                | 1225z | 15/02 [521/00] Strong  | RNGB           | MON |
| <b><u>E11a log Jan/Feb</u></b> |       |  |                |     |
| 4505kHz                        | 1605z | 19/01 [236/38 25738 99485 50281 05721 46717 00981 52240 25435.....60013 48958]           | JkC, Malc      | TUE |
|                                | 1605z | 24/01 [236/38 25738.....etc] Out 1615z Repeat of Tuesday                                 | Malc           | SUN |
|                                | 1605z | 23/02 [233/37 17508 41547 42015 49367 05149 93649 27458.....18967 22540] Out 1615z       | JkC            | TUE |
|                                | 1605z | 28/02 [233/37 17508 .....etc] Repeat of Tuesday  | Malc           | SUN |
| 5082kHz                        | 1730z | 14/01 [413/35 01897 76090 85855 71053 28789 51957 71423 15629.....19168 26298]           | Malc           | THU |
|                                | 0450z | 22/02 [413/39 24786 05660 70172 72733 19232 26078 42858 99075.....49603 21929] Out 0500z | EdSmith        | MON |
|                                | 1730z | 25/02 [413/39 24786 ... 21929] Out 1740z Repeat of Monday QSA4 QRM1 QSB1                 | JkC            | THU |
| 5409kHz                        | 1530z | 14/01 [262/38 69483 49377 06538 15243 30808 85206 33462 .....44343 10387]                | RNGB, Malc     | THU |
|                                | 1530z | 25/02 [267/37 72296 ... 88928] Out 1539z QSA4 QRM1 QSB1                                  | JkC            | THU |
| 5779kHz                        | 0315z | 07/01 [255/35 A 88815 ... 69714] Out 0325z Fair, QSB to nil                              | PLondon        | THU |
|                                | 0315z | 03/02 [252/32 09042 34262 03472 90041 32288 67253 61847 05583.....51551 19502] Out 0524z | Ed Smith       | WED |
| 6304kHz                        | 2000z | 08/01 [577/40 49554 89124 95164 70207 69156 69175 82045.....04757 62419] Out 2011z S2    | Malc           | FRI |
| 6940kHz                        | 0820z | 15/02 [432/30 65981 70039 94983 34536 20650 04906 28911.....72378 64721]                 | RNGB           | MON |
|                                | 0820z | 18/02 [432/30 65981.....etc] Repeat of Monday  | RNGB           | THU |
| 7840kHz                        | 0645z | 28/01 [518/36 22937 69976 01827 22752 50622 53771 57126 33620.....15092 32510] Out 0654z | Ed Smith       | THU |
|                                | 0645z | 09/02 [512/34 57878 98480 10730 30281 28276 21317 43194 87313.....22748 38084] Out 0655z | Ed Smith       | TUE |
| 7984kHz                        | 1205z | 26/01 [461/35 27610.....72686] Out 1214z S3  | Malc           | TUE |
|                                | 1205z | 27/01 [461/35 27610.....etc] Repeat of Tuesday   | Malc           | WED |
|                                | 1205z | 16/02 [464/34 60978 51045 30277 45872 59909 37898 91458 07838.....17878 07065] Out 1214z | Ed Smith       | TUE |
| 8196kHz                        | 1450z | 23/02 [449/33 03207 92960 35572 72269 13144 47398 44976.....10678 17396] Out 1500z       | JkC            | TUE |
|                                | 1450z | 25/02 [449/33 03207 ... 17396] Repeat of Tuesday QSA4 QRM1 QSB1                          | JkC            | THU |
| 8680kHz                        | 1304z | 25/02 [I/P ...55755 35269 10333 96724 36517 35763 25794 32500 39350..... 02169 33766]    | JkC            | THU |
| 9443kHz                        | 1705z | 20/01 [396/35 90335 09850 90671 54322 19093 26409 86901.....63145 15408] BC QRM          | RNGB           | WED |
|                                | 1705z | 23/01 [396/35 90335.....etc] Repeat of Wednesday   | Malc           | SAT |
| 9443kHz                        | 1705z | 06/02 [394/39 35259 17199 13723 52703 83930 80851 68722.....95534 80671] Out 1715z S9+20 | Ed Smith, Malc | SAT |

|          |       |  |                |     |
|----------|-------|--|----------------|-----|
| 9446kHz  | 0830z | 11/01 [469/36 59899.....36232] Out 0839z S4  | Malc           | MON |
|          | 0900z | 11/01 [537/39 06932 31585 65917 66013 76077 90769 98247 42577.....etc] Fair              | RNGB           | MON |
|          | 0900z | 13/01 [537/39 06932 31585 65917 66013 76077 90769 98247.....19371 55387] Out 0910z       | Ed Smith       | WED |
|          | 0830z | 15/01 [649/36 59899.....36232] Repeat of Wednesday                                       | Malc           | FRI |
|          | 0830z | 01/02 [641/36 24345 07185 99012 08498 86931 78788 93908.....75566 44700]                 | RNGB, Malc     | MON |
|          | 0900z | 01/02 [537/32 53131 47998 60937 35486 17063 42126 47623 22234.....83294 50595]           | RNGB, Malc     | MON |
|          | 0900z | 03/02 [537/32 53131 47998.....83294 50595] Out 0909z                                     | Ed Smith       | WED |
|          | 0830z | 05/02 [641/36 24345.....etc] Repeat of Monday S7   | Malc           | FRI |
| 9950kHz  | 0930z | 20/01 [278/39 72174 04976 56182 91946 77067 17416 93415 14305.....75722 38679] Good      | RNGB           | WED |
| 10213kHz | 0745z | 11/01 [262/38 69483 49377 06538 15243 30808 85206 33462.....44343 10387] Good            | RNGB           | MON |
|          | 0745z | 22/02 [267/37 72296 14246 39768 91040 37420 64966 49781.....87194 88928] Out 0754z       | Ed Smith       | MON |
| 10429kHz | 0805z | 27/01 [311/35 85411.....34659] Out 0815z S8 QSB4   | Malc           | WED |
|          | 0805z | 03/02 [313/36 07803 32968 85801 39172 43831 45887 36233..... 61994 94866 OUT] 0815z      | RNGB, Ed Smith | WED |
| 10448kHz | 1625z | 13/01 [974/39 18314 58926 73058 85045 79092 05817 34677.....87096 61689] Out 1635z       | JkC            | WED |
|          | 1625z | 17/01 [974/39 18314.....etc] Repeat of Wednesday   | Malc           | SUN |
|          | 1625z | 17/02 [976/40 47883 33777 74722 67109 99494 30896 48455 82361.....64828 71560]           | JkC            | WED |
|          | 1625z | 21/02 [976/40 47883.....etc] Repeat of Wednesday   | Gary H         | SUN |
| 10800kHz | 0710z | 05/01 [634/32 26109 18586 86481 11505 41608 69882 87601 19408.....97663 52210]           | Ary            | TUE |
|          | 0710z | 23/02 [637/36 59074 48802 51192 21331 62945 17662 18668 38849.....43152 03579] Good      | RNGB           | TUE |
| 12153kHz | 1045z | 05/01 [577/40 49554 89124 95164 70207 69156 69175 82045 84125.....04757 62419] Good      | RNGB           | TUE |
|          | 1345z | 16/02 [912/34 10735 07365 36011 14108 17023 22334 52193 64481.....43331 01748] Out 1354z | Ed Smith       | TUE |
| 13046kHz | 0600z | 15/01 [188/34 30837 94870 00476 00756 57323 60201 39034 89051.....32658 65176] Out 0610z | Ed Smith       | FRI |
|          | 0600z | 08/02 [185/35 15028 77113 80977 59779 30679 53923 59744 24348.....14813 74227] Out 0609z | Ed Smith       | MON |
| 14666kHz | 1345z | 05/01 [917/37 51177.....19808] Out 1354z S9+10   | Malc           | TUE |
|          | 1345z | 16/02 [912/34 10735 07365 36011 14108 17023 22334 52193.....43331 01748] Out 1354z       | Ed Smith       | TUE |
| 15632kHz | 1540z | 11/01 [226/36 47683.....08051] Out 1550z S7  | Malc           | MON |
|          | 1540z | 07/02 [227/37 57581.....03122] Out 1543z S4  | Malc           | SUN |
| 16112kHz | 0745z | 21/01 [332/34 65419.....08929] Out 0754z S2  | Malc           | THU |
|          | 0745z | 02/02 [332/36 35050 82893 21252 33438 47718 78821 17965.....75448 36349]                 | RNGB           | TUE |
| 20167kHz | 1225z | 01/02 [524/37 50933 38024 89858 22756 42492 44640 05752 02232.....49851 0985] Out 1234z  | Ed Smith       | MON |
|          | 1225z | 05/02 [524/37 50933 38024 ..... 49851 09855] Out 1235z Repeat of Monday                  | Ed Smith       | FRI |

## E17z

### Thursday

#### January 2016

| 0800z | 11170kHz | 0810z   | 9820kHz  |                |
|-------|----------|---|----------|----------------|
| 07/01 |          | 674 251 8 48075 38765 ..... 65904 00000                         | [NRH UK] | fm Netherlands |
| 14/01 |          | 674 251 8 48075 38765 84829 85551 90045 99375 00015 65904 00000 |          | Weak           |
| 21/01 |          | Too weak  |          | Unworkable     |
| 28/01 |          | 674 201 5 34888 ... 43391 201 5 00000                           |          |                |

#### February 2016

|       |  |   |  |      |
|-------|--|---|--|------|
| 04/02 |  | Unworkable  |  |      |
| 11/02 |  | 674 305 8 69733 74537 57440 10597 33535 47660 93883 69901 305 8 00000 |  | Weak |
| 18/02 |  | 674 289 5 38034 37823 38230 48235 38702 289 5 00000                   |  |      |

## E25

There was a Possible E25 test on 9600 kHz:

|              |   |     |     |
|--------------|---|-----|-----|
| 9600kHz1237z | 28/02 Oriental music i.p., also at Twente SDR, 1230z tone and QRT, AM, QSA5   | MG  | SUN |
| 6140kHz1233z | 10/01[672] 1234z i.p. call only, AM weak,<br><i>Unusual transmission time for 6140kHz.</i>  | MG  | SUN |
| 6140kHz0800z | 03/02[360 1080 7221 4004 0696 3572 3017 7221 9405] 0805z AM Weak  | MG  | WED |
| 6140kHz0944z | 21/02[350 5176 4960 2021 7415 5074 4033 2318 8546 9537 7295 5553 4960] Started early at 0940z, stopped during repeat at 0943z. Proper session started at 0944z, EOM EOT at 0947z, carrier left up till 0956z. YL, AM QSA3 QSB3, | MG  | SUN |
| 6140kHz0900z | 24/02[111 MESSAGE 6X11 0570 2060 0055 69X5 0570 REBEAT 6X11] 0902z AM   | Edd | WED |
| 6140kHz0915z | 24/02[111 MESSAGE 6311 0570 2060 0055 6935 0570 REBEAT 6311] 0917z AM   | Edd | WED |
| 6140kHz0917z | 24/02[950 MESSAGE 2011 7541 1911 0424 3728 8080 5329] 0917z AM  | Edd | WED |
| 6140kHz0919z | 24/02[950 MESSAGE 2011 7541 1911 0424 3728 8080 9329 2554 1021 93X6 1511 REBEAT] 0920z AM   | Edd | WED |
| 9450kHz1114z | 23/02[880 889 6211 3001 2599 7699 6365 86... QRT] 1116z YL QRT during msg, AM QSA5,   | MG  | TUE |

## E25a

|               |  |    |     |
|---------------|--|----|-----|
| 9450 kHz1215z | 04/02[830 1] 1227z "Inte Omri", YL, ended "Mx3", "830 1" x2, "EOM EOT", AM QSA5  | MG | THU |
| 9450kHz 1215z | 25/02[830 20] off-frequency carrier (~ +350Hz) and "Inte Omri" song at 1209z, offset gone at 1218z, YL ended with EOM 8 EOT at 1220z, QRT at 1221z, AM QSA5, | MG | THU |

## G06

**Second + Fourth Thursdays in the Month Schedule, 1830 UTC Start** - although, as with the related E06 English Man schedules, usually starts well before the half-hour:-

14-Jan-16:- 4,519 kHz, in progress with "271" call when tuned in just after 1828 UTC, difficult copy at times due to strong "XJT" STANAG, whatever, on the HF side, and a big surprise because the message did not consist of the usual twenty 5F groups which has been the norm with this schedule for perhaps a couple of years. DK/GC "215 215 24 24", "32144 90049 99927....". So something a bit unusual, then.

11-Feb-16:- 4,519 kHz, call "271", DK/GC "613 613 15 15", so another deviation from the usual behaviour of this schedule, fifteen 5F groups, a cut down version of the long-standing "14259 22676....", finishing with group number fifteen, "36664". A clear frequency, no sign of the "XJT" which carved up this frequency on 14-January.

**Friday 1930 UTC Following the Second + Fourth Thursdays in the Month** - early starts also a feature with this schedule:-

15-Jan-16:- 4,792 kHz, call "436" started when tuned in after 1928 UTC, DK/GC "271 271 20 20", followed by the ever popular, "14259 22676 32782 32782...." sequence. S9 signal on a clear frequency.

29-Jan-16:- 4,792 kHz, started shortly after 1928 UTC, "436" and "271 271 20 20", 5Fs as on the 15<sup>th</sup>.

12-Feb-16:- 4,792 kHz, call "436", DK/GC "701 701 20 20", the 5F message starting "37839 35787 98273.....", used many times in the past, certainly in the first nine months of 2015 but not so much since then. Started about 30 seconds before the half-hour.

**First + Second Mondays in the Month 1700 + 1800 UTC Schedule:-**

11-Jan-16:- 1801 UTC, 4,562 kHz, "574 574 574 00000", weak signal, probably started well before the hour because it stopped just before 1802 UTC. Unable to find a transmission at 1700 UTC.

1-Feb-16:- 1659 UTC, 3,696 kHz, first sending found in progress, "574 574 574 00000", S7 to S8 inside the 80 metre amateur band, stopped 1702 UTC.

1758 UTC, 4,562 kHz, second sending starting two minutes before the hour.

8-Feb-16:- 1700 and 15 seconds UTC, started a bit late for a change, 3,696 kHz, "574 574 574 00000", peaking S9, strong amateur SSB activity on close frequency.

1800 UTC, 4,562 kHz, second sending, S9, strong "XJT" on HF side.

[Txn PoSW]

**Other's logs:**

**Monday**

**January 2016**

**0800z 5320kHz**

|       |           |      |
|-------|-----------|------|
| 04/01 | 329 00000 | Weak |
| 18/01 | 329 00000 | Weak |

**G06 continued .....**

**February 2016**

01/02 329 00000 Strong

**January 2016**

**1658z 3696kHz 1758z 4562kHz**

04/01 574 00000 Weak

11/01 574 00000 Fair

**February 2016**

01/02 574 00000 [111 test at 1652 and 1739z] Strong

08/02 574 00000 Strong, QRM

15/02 320 00000

**Wednesday**

**January 2016**

**1200z 4912kHz 1300z 4039kHz**

13/01 574 00000 [1300z NRH] Weak

**February 2016**

03/02 574 00000 [1300z NRH] Very weak

10/02 574 00000

**Thursday**

**January 2016**

**1300z 4460kHz**

21/01 329 00000 Early, Weak

**February 2016**

18/02 329 00000 Weak

**January 2016**

**1830z 4519kHz**

14/01 271 015 24 30144 ... 35449 015 24 00000 Weak

At 1752z there was a single „111“, at 1803z „she“ said „111 11“ and at 1822 there was „111 1“ before the regular transmission started irregularly too early.

271 015 24  
32144 90049 99927 83591 58271 54424 64075 37801 75361 67479  
75779 52862 42956 65581 69906 35108 52400 24068 98414 96084  
30025 69145 74845 35749  
015 24 00000 *Courtesy JkC*

28/01 271 271 20 14259 ... 12250 271 20 00000 Strong

**February 2016**

11/02 271 613 15 14259 ... 36664 613 15 00000 Very strong

25/02 271 613 15 14259 ... 36664 613 15 00000

271 613 15  
14259 22676 32782 32782 76723  
89409 12215 74326 64070 90235  
38085 59543 12319 74238 36664  
613 15 00000 *Courtesy JkC*

G06 continued .....

Friday

January 2016

1930z 4792kHz

29/01 436 271 20 14259 ... 12250 271 20 00000 Up early1928z Strong

February 2016

12/02 436 701 20 ?????? ... 04594 701 20 000 000 Strong

### S06 et al [PoSW's Observations]

Into 2016, and it appears that one S06 schedule which has not survived into the New Year is the weekly Saturday 1600 or 1605 UTC transmission, or at least I have not been able to find it at either start time. This one had been around for years, I think for as long as I have been following the number station scene. In the last two months of 2015 it was on either 6,778 kHz at 1600 UTC or on 5,073 kHz at 1605 UTC with call "491" and had been four minutes of "no message" for some time. It was usually a good signal and no problem to find. I would expect it to be in the same part of the short-wave spectrum, but no sign of it so far. On the plus side, an occasional schedule - in the sense that it has appeared before for a few weeks at a time - with call "480" at 1700 and 1730 UTC has turned up again in January. So onto schedules which have been logged in the first months of 2016:-

#### First + Third Saturdays in the Month 2000 + 2100 UTC Schedule:-

2-Jan-16:- 2100 UTC, 3,513 kHz, weak signal inside 80 metre amateur band surrounded by CW, "614 614 614 00000". Unable to find a sending at 2000Z, but at least we know this schedule is running in the New Year.

16-Jan-16:- 2000 UTC, 4,031 kHz, the first sending, "614 614 614 00000", I don't know how I missed this on the 2<sup>nd</sup>, S8 to S9 on a clear frequency.

2100 UTC, 3,513 kHz, second sending, S7, stronger than last time, again surrounded by amateur Morse.

20-Feb-16:- 2000 UTC, 4,031 kHz, "614 614 614 00000", S7 to S8.

2100 UTC, 3,513 kHz, second sending, weak signal, down in the local noise QRM which starts to become a problem at these low frequencies.

#### First + Third Fridays in the Month 2000 + 2100 UTC Schedule - (or 1900 + 2000 UTC because this one sometimes moves back or forth by an hour for reasons not connected with the seasonal changes of the clocks):-

15-Jan-16:- 2100 UTC, 5,733 kHz, "761 761 761 00000", must be the second sending, nothing found at 2000Z but must be between one and two MHz higher in frequency.

Sure enough, this one moved by one hour in February. Since in the previous month a transmission had been found at 2100Z it was reasonable to assume that the first sending would be at 2000Z on a higher frequency, but:-

5-Feb-16:- 2000 UTC, 5,736 kHz:- "761 761 761 00000", actually found at about 2002 UTC, having spent a fruitless couple of minutes searching higher up the band for the first sending before wondering if there had been a one-hour shift; and so it proved to be so I guess the first sending would have been at 1900Z this evening.

19-Feb-16:- 1900 UTC, 7,812 kHz, the first sending, just a little bit higher in frequency than I thought it would be, "761 761 761 00000", S6 to S7. 2000 UTC, 5,736 kHz, the second sending, also about S6 to S7.

#### Sunday + Tuesday 1700 + 1730 UTC Schedule:-

17-Jan-16, Sunday:- 1702 UTC, 6,774 kHz, a surprise find whilst idly tuning around on a cold English winter's evening not really expecting to discover anything of interest. S06 Man

calling "480", then DK/GC "269 269 41 41". Strong signal, in carrier suppressed mode or at least carrier greatly reduced, receiver needed to be in USB mode for clear copy. Ended before 1712 UTC.

1730 UTC, 5,436 kHz, second sending, also carrier suppressed or reduced, peaking S9.

This "480" schedule has been heard in the past at these times, puts in appearance for a few weeks then goes away. Was logged in 2015 in March on 7,827 + 6,793 kHz and in April on 10,867 + 7,473 kHz.

19-Jan-16, Tuesday:- 1700 UTC, 6,774 kHz, call "480", DK/GC "735 735 44 44", S8 to S9.

1730 UTC, 5,436 kHz, second sending, both transmissions with carrier this time to make them more or less AM compatible.

24-Jan-16, Sunday:- 1700 UTC, 6,774 kHz, call "480", DK/GC "912 912 44 44", signal strength peaking S9.

1730 UTC, 5,436 kHz, second sending, S6 to S7 at first but quickly came up to S9.

26-Jan-16, Tuesday:- 1700 UTC, 6,768 kHz, a slight drop in frequency, SSB suppressed carrier mode, "480" and DK/GC "637 637 44 44".

1730 UTC, 5,436 kHz, second sending, also SSB, weaker FSK signal on a close frequency.

31-Jan-16, Sunday:- 1700 UTC, 6,774 kHz, in SSB carrier suppressed mode, S9+, very strong signal, "480" as always, DK/GC "192 192 45 45".

1730 UTC, 5,436 kHz, second sending, over S9 for most of the time.

2-Feb-16, Tuesday:- a change of frequencies for a new month, no sign of "480" on 6,774, plus or minus, at 1700Z promotes activation of "lost contact procedure";-

1702 UTC, 8,187 kHz, found with call-up in progress, still "480", DK/GC "657 657 41 41",

transmitted with carrier, none of the background noise which was noticeable throughout January, S9 signal.

1730 UTC, 6,779 kHz, second sending, close to a strong "XJT", much reduced with the receiver in USB mode.

7-Feb-16, Sunday:- 1700 UTC, 8,187 kHz, "480" as always, DK/GC "391 391 40 40", signal strength varying between S6 to S9, "with carrier" mode.

1730 UTC, 6,779 kHz, second sending, very strong signal, S9+, and this time carrier suppressed USB.

9-Feb-16, Tuesday:- 1700 UTC, 8,187 kHz, DK/GC "726 726 44 44".

1730 UTC, 6,779 kHz, second sending, both transmissions in carrier suppressed mode.

14-Feb-16, Sunday:- 1700 UTC, 8,187 kHz, DK/GC "139 139 45 45", over S9, with carrier.  
1730 UTC, 6,779 kHz, also S9 with carrier.

16-Feb-16, Tuesday:- 1700 UTC, DK/GC "567 567 42 42", well over S9, with carrier.  
1730 UTC, 6,779 kHz, second sending, the "XJT" on the LF side very strong this evening.

This seems to be the end of "480", not found on Sunday 21-Feb or on Tuesday the 23<sup>rd</sup>.

#### **S06s YL:-**

##### **Monday 0900 + 0910 UTC Schedule, Call "872":-**

4-Jan-16:- 0900 UTC, 14,675 kHz, DK/GC "941 941 5 5", weak signal, difficult copy, "65656 53735 61088 02440 5??54".  
0910 UTC, 12,830 kHz, second sending, way down in the noise, largely unreadable.

11-Jan-16:- 0900 UTC, 14,675 kHz, DK/GC "941 941 5 5", "65656 53735 61088 02440 59354", same as last week then.  
0910 UTC, 12,830 kHz, second sending, very weak signal.

18-Jan-16:- 0900 UTC, 14,675 kHz, DK/GC "914 914 5 5", "31900 48366 36534 32840 48436", S6 with deep QSB.  
0910 UTC, 12,830 kHz, second sending, as always very weak signal.

1-Feb-16:- 0900 UTC, 14,675 kHz, DK/GC "964 964 5 5", "31704 91596 47308 92107 40398", S6 to S7.  
0910 UTC, 12,830 kHz, second sending, weak signal.

##### **Tuesday 0730 + 0740 UTC Schedule, Call "427":-**

19-Jan-16:- 0740 UTC, 11,532 kHz, missed 0730Z sending, DK/GC "850 850 6 6", "46062 68672 97478 39685 30485 96632", S9 signal.

26-Jan-16:- 0730 UTC, 7,410 kHz, "850 850 6 6", and 5Fs as on the 19<sup>th</sup>. S5 to S7.  
0740 UTC, 11,532 kHz, second sending, peaking S8 with deep QSB.

16-Feb-16:- 0730 UTC, 7,410 kHz, something a bit strange here, the 5Fs were the same as when I last remembered to tune into this one on 26-January - the same six 5F groups - but I read the D/K as "508", and not "850" as was the case then. A distinct pause between the fifth 5F, "30485" and the sixth and final 5F, "96632". S9 signal.  
0740 UTC, 11,532 kHz, S9+, very strong. Unusually, the carrier stayed on for a while after the end, came up with an audio tone at 0747 UTC before going off air just before 0748.

23-Feb-16:- 0734 UTC, 7,410 kHz, tuned in late having lost track of the time over the Shredded Wheat and coffee, caught the last 5Fs and ending, "..... 39685 30485 96632 508 508 6 6 00000", looks like the same message as last Tuesday.  
0740 UTC, 11,532 kHz, second sending, message confirmed as same as last time.

##### **Wednesday 1000 + 1010 UTC Schedule, Call "729":-**

13-Jan-16:- 1000 UTC, 12,365 kHz, DK/GC "536 536 8 8", a larger number of 5F groups than with most S06s transmissions, "33365 47183 81436 36388 94323 45547 48082 39581", S6 to S7.

1010 UTC, 14,280 kHz, second sending inside the 20 metre amateur band. Didn't the RSGB used to run something called the "intruder watch" at one time to report and make protests to the appropriate authorities over this kind of thing?

20-Jan-16:- 1000 UTC, 12,365 kHz, DK/GC "503 503 6 6", "37391 37446 86535 89203 33244 39054".  
1010 UTC, 14,280 kHz, second sending over-riding an amateur SSB QSO.

27-Jan-16:- 1000 UTC, 12,365 kHz, "503 503 6 6" and same 5Fs as last Wednesday, S9 signal.  
1010 UTC, 14,280 kHz, second sending, S8 with deep QSB.

3-Feb-16:- 1000 UTC, 12,365 kHz, DK/GC "516 516 8 8", peaking S9, 5Fs "48992 45648 34061 83314 33623 37319 37717 48130".  
1010 UTC, 14,280 kHz, second sending, signal varying between S6 and S9.

17-Feb-16:- 1000 UTC, 12,365 kHz, DK/GC "403 403 5 5", "45326 30478 39686 37977 32397", S7.  
1010 UTC, 14,280 kHz, second sending, weaker signal, several amateur stations taking countermeasures, whistling into the microphone and shouts of "QSY from this frequency" heard.

24-Feb-16:- 1000 UTC, 12,365 kHz, DK/GC "403 403 5 5", 5Fs the same as last Wednesday. S9+, very strong signal.  
1010 UTC, 14,280 kHz, second sending, also S9+, over-riding weaker amateur stations on frequency.

##### **Thursday 0900 + 0910 UTC Schedule, Call "167":-**

7-Jan-16:- 0900 UTC, 12,952 kHz, DK/GC "843 843 5 5", "74931 48720 75920 66839 11534", S9+, very strong signal.  
0910 UTC, 13,565 kHz, second sending, also S9+.

14-Jan-16:- 0900 UTC, 12,952 kHz, DK/GC "843 843 5 5", and 5Fs same as last time. S9+ signal.  
0910 UTC, 13,565 kHz, second sending, S9+.

4-Feb-16:- 0900 UTC, 12,952 kHz, DK/GC "250 250 8 8", "82707 06123 22536 88280 84116 53718 78927 34694", over S9.  
0911 UTC - no voice heard until 0911 - 13,565 kHz, second sending, S9+.

11-Feb-16:- 0900 UTC, 12,952 kHz, same message as on the 4<sup>th</sup>.

##### **Thursday 1200 + 1210 UTC Schedule, Call "425":-**

7-Jan-16:- 1200 UTC, 12,155 kHz, DK/GC "819 819 6 6", "74930 88925 77401 63789 00134 56472", not too strong, S6 at best.  
1210 UTC, 10,920 kHz, or rather 1212 UTC because there was a wide-band S9+ buzz over this part of the short-wave spectrum which made copy of

S06s impossible, someone's Over The Horizon Radar, perhaps? But at 1212 UTC the owners must have pulled the big switch because it went off suddenly, leaving the second sending clear at a reasonable S7.

21-Jan-16:- 1200 UTC, 12,155 kHz, DK/GC "801 801 6 6", "48318 32229 43306 80458 36533 34067", S9+, very strong signal.  
1210 UTC, 10,920 kHz, second sending, over S9.

28-Jan-16:- 1200 UTC, 12,155 kHz, "801 801 6 6", 5Fs the same as on the 21<sup>st</sup>. S9+ signal.  
1210 UTC, 10,920 kHz, second sending, peaking S9.

4-Feb-16:- 1200 UTC, 12,155 kHz, DK/GC "830 830 6 6", "33365 47183 81326 36388 94323 45547", S9+ very strong signal.  
1210 UTC, 10,920 kHz, second sending, S8 to S9.

**Friday 0930 + 0940 UTC Schedule, Call "516":-**

1-Jan-16:- 0930 UTC, 11,780 kHz, DK/GC "248 248 7 7", "11171 64385 82707 06123 22536 88280 84116", S9+ signal.  
0940 UTC, 12,570 kHz, second sending, also S9+.

8-Jan-16:- 0930 UTC, 11,780 kHz, DK/GC and 5Fs same as last time. S9 signal over-riding a weaker broadcast station inside what is generally regarded as the 25 metre BC band.  
0940 UTC, 12,570 kHz, second sending, S7 to S8.

22-Jan-16:- 0930 UTC, 11,780 kHz, DK/GC "289 289 7 7", 5Fs "46062 68672 97478 39685 30485 96632 52537", S7.  
0940 UTC, 12,570 kHz, second sending, peaking S8.

29-Jan-16:- 0930 UTC, 11,780 kHz, "516 516 516 00000", "no message" says, "Young Olga". S9+, very strong signal.  
0939 UTC, 12,570 kHz, started about one minute early, second sending, also S9+.

5-Feb-16:- 0930 UTC, 11,780 kHz, DK/GC "928 928 7 7", "33796 13577 74526 46647 79302 53516 25616", S7 with weaker BC station underneath.  
0940 UTC, 12,570 kHz, second sending, S8.

12-Feb-16:- 0930 UTC, 11,780 kHz, DK/GC "928 928 7 7", and 5Fs the same as last time.  
S9+, very strong signal this morning.  
0940 UTC, 12,570 kHz, second sending, also S9+.

19-Feb-16:- 0930 UTC, 11,780 kHz, DK/GC "298 298 7 7", DK/GC "77620 58069 61732 74537 57440 10597 23521", over S9.  
0940 UTC, 12,570 kHz, second sending, also over S9.

**S06 log January 2016**

**Daily Mon- Fri 0400z 15721kHz**  
**No reports**

**Thursdays (Repeats following day) 0830z kHz 0930zkHz 13469kHz (frequencies may vary slightly)**  
07/01 '824' NRH  
14/01 '824' 605 39 31965 44414 23019 23948 23597 99338 02856 56114 84016 72706 92752 54384 86784 81033 93822 91977 11255 62369 77738  
09360 45276 58568 41827 08473 50102 08589 19344 22850 04698 38778 74603 12039 71627 61051 37674 53788 51710 14932  
58294 605 39 00000  
21/01 '824' 137 40 40282 03586 86850 58236 22048 58338 65146 46888 23705 21427 68565 73675 55236 12655 20609 53549 53577 02624 78850  
72203 11328 50007 90053 05427 92270 72907 15706 90507 07145 21483 63893 29380 48113 44028 88468 28191 05361 63702  
41432 02984 137 40 00000

**Fridays (1st & 3rd) 2000z 7812kHz 2100z 5736kHz (frequencies may vary slightly)**  
01/01 '761' 00000  
15/01 '761' 00000

**Saturdays (1st/2nd/3rd and 4th) 1600z kHz or 1605z kHz**

**Saturdays (1st/3rd) 2000z 4031kHz 2100z 3513kHz (frequencies may vary slightly)**  
02/01 '614' 00000  
16/01 '614' 00000

**Ad hock training net ?**

06/01 8161kHz 1711z '480' 793 48 02233.....54890 793 48 00000] 1713z QSA4 JkC WED  
6968kHz 1730z '480' 793 48 02233.....54890 793 48 00000] 1743z QSA4 JkC WED  
See transcript

**Transcript**

'480' 793 48 02233 32666 02585 01921 66086 88729 54680 04965 79335 25984 41166 70541 92449 13303 85017 16590 36384 51092 13958 39941  
74423 34229 30007 61753 67546 19795 69197 29868 40529 18027 92425 68208 21206 48133 98220 41359 58310 86475 50996 72436  
47109 34818 96901 58261 82515 27048 56151 54890 793 48 00000

13/01 5436kHz 1740z '480' .....58228 64164 573 48 00000] 1743z JkC  
THU See transcript

It looks as though S06 is another net re-using groups. GR35-48 of the in progress transmission today are the same as GR10-23 of a 2014 ID 480 transmission (reproduced below):

S06 7361kHz 1730z 18/03/14  
'480' 193 42  
85415 05660 12561 99127 26660 43262 00411 46085 73746 **95785**  
**34200 61430 26548 96964 43742 38222 82233 19822 36036 44229**

96640 58228 64164 97053 71641 44441 06586 08875 20979 70370  
05853 69226 10439 27337 32993 35938 53868 48569 32626 22126  
84886 91515 193 42 00000

19/01 6774kHz 1700z 19/01 '480' 735 44 64950 ... 96901 735 44 00000] 1712z JkC TUE  
See transcript  
5436kHz 1730z 19/01 '480' 735 44 64950 ... 96901 735 44 00000] 1742z JkC TUE

'480' 735 44 26084 47466 34377 10233 10401 79513 57755 49501 13643 28472 84385 02233 32666 02585 01921 66086 88729  
54680 04965 79335 25984 41166 70541 92449 13303 85017 16590 36384 51092 13958 72436 47109 34818 96901  
735 44 00000

This message is the same as 17/02/2015 with a different DK. Also, GR01-19 of S06 06/01/2016 are the same as 22-40 of this message. (Thanks Jim)

26/01 6768kHz 1700z 26/01 '480' 637 44 78430.....43347 637 44 00000] 1712z JkC TUE  
Moved down 9kHz. See transcript  
26/01 5436kHz 1730z 26/01 '480' 637 44 78430.....etc]

'480' 637 44 78430 31192 49124 23068 95405 58261 82515 27048 56151 54890 39941 64423 34229 30007 61753 67546 19795 69197 29868 40529  
18027 92425 68208 21206 48133 98220 41359 58310 86475 50996 73201 71458 72797 15128 28810 62853 29344 45434 04714 58814  
36804 26660 57159 43347 637 44 00000

### S06s January log:

#### Sunday

3rd/10th 0630/40 13470/16515 '524' 913 6 09394 76911 75155 96918 97067 58604  
17th/24th '524' No reports

#### Monday

4th/11th 0830/40 8057/8530 '371' 284 5 96320 36793 53038 76342 15009  
18th/25th '371' 256 8 37391 37446 86525 89203 33244 39054 35843 37259  
4th/11th 0900/10 14675/12830 '872' 941 5 65656 53735 61088 02440 59354  
18th/25th '872' 914 5 31900 48366 36534 32840 48436  
4th/11th 1300/10 8420/10635 '831' 942 5 45847 23013 89758 52343 79628  
18th/25th '831' 254 6 38311 81228 33428 93171 43979 36922

#### Tuesday

5th/12th 0600/10 16145/14240 '438' 570 6 24035 48115 24151 51902 52985 53006  
19th/26th '438' 526 7 31704 91596 47308 92107 40398 85417 33485  
5th/12th 0700/15 5250/6320 '374' 510 6 14645 80477 86200 84706 42227 61735  
19th/26th '374' 501 6 42169 35797 33873 39235 93515 45031  
5th/12th 0730/40 7410/11537 '427' 589 6 95051 13808 71909 83981 24035 48115  
19th/26th '427' 850 6 46062 68672 97478 n39685 30485 96632  
5th/12th 0800/10 11945/13195 '352' 410 6 40614 77249 40678 17976 21816 42997  
19th/26th '352' 810 6 52401 63919 92699 14600 47248 48754  
5th/12th 1000/10 6440/5660 '893' 461 5 01405 15003 24357 60583 54545  
19th/26th '893' 207 5 20534 11160 43494 37638 16070  
5th/12th 1100/10 5035/5975 '754' 298 6 80454 42729 32175 48654 89864 48446  
19th/26th '754' 203 6 57440 10597 23521 47660 92883 69901  
5th/12th 1500/10 6845/9170 '537' 498 6 88997 83755 89983 34084 86339 99811  
19th/26th '537' 204 6 79302 53516 25616 26069 96813 14199

#### Wednesday

6th/13th 0530/40 7425/9069 '464' No reports  
16th.23rd '464' 238 5 58604 41438 02092 68362 01653  
6th/13th 0820/30 8417/9262 '471' 592 6 83465 46018 37387 84234 98769 46521  
20th/27th '471' 923 5 84498 48832 49484 49607 33446  
6th/13th 0830/40 11535/11830 '745' 289 6 32183 32488 89266 49920 34969 47367  
20th/27th '745' 231 6 80458 33282 36533 31752 33076 83233  
6th/13th 1000/10 12365/14280 '729' 536 8 33365 47183 81436 36388 94323 45547 48082 39581  
20th/27th '729' 503 6 37391 37446 86535 89203 33244 39054

#### Thursday

7th/14th(E17z) 0800/10 11170/9820 '674' 251 8 48075 38765 84829 85551 90045 99375 00015 65904  
21st/28th '674' 201 5 34888 33661 37167 37671 43391  
7th/14th 0900/10 5765/6315 '624' 918 5 75894 00672 85411 23147 09583  
21st/28th '624' 831 5 34031 33430 37536 34906 39698  
7th/14th 0900/10 12952/13565 '167' 843 5 74931 48720 75920 66839 11534  
21st/28th '167' 298 5 92971 30490 46481 33987 37393  
7th/14th 0930/40 8812/9540 '314' 827 5 78493 00838 01653 85637 90337  
21st/28th '314' 286 5 11394 30307 31450 38153 39650  
7th/14th 1200/10 12155/10920 '425' 819 6 74930 88925 77401 63789 00134 56472  
21st/28th '425' 801 6 48318 32229 43306 80458 36533 34067

#### Friday

1st/8th 0930/40 11780/12570 '516' 248 7 11171 64385 82707 06123 22536 88280 84116

15th/22nd '516' 289 7 46062 68672 97478 39685 30485 96632 52537

**Saturday**

2nd 1200/10 8680/8260 '254' No reports

Thanks to RRGB, JkC, Malc, Ed Smith

**S06 log February 2016**

**Daily Mon- Fri 0400z 15721kHz**  
**No reports**

**Thursdays (Repeats following day) 0830z 17450kHz 0930z 15614kHz (frequencies may vary slightly)**

04/02 '842' 537 41 02064 49896 48476 06921 94303 69028 66906 78462 76588 41521 25619 07852 75625 61912 77350 34048 37559 92649 67911 28948  
11103 98460 01778 94104 74897 01915 13643 87236 13796 83609 63111 64455 73769 75428 94733 49162 50110 20300 30545 63527  
88614 537 41 000000

11/02 '842' 906 42 56704 76689 70507 58008 57304 36504 39879 87503 73734 42223 80359 19559 33359 92462 68997 34221 85414 53399 11645 10623  
49951 22234 54055 51241 82893 71236 95820 20325 11893 45776 74327 32406 22682 14816 10911 51861 00590 97260 36417 89433  
56929 12648 00000] 0941z

18/02 '842' 751 43 08308 50267 21237 26125 43598 83239 33454 22707 00633 77308 64587 88856 16521 45999 72180 36882 53717/ 51221 63904 70732  
37976 96744 83679 50384 37007 25288 15874 06556 32815 73905 80997 12942 21614 67371 21341 08560 07300 54224 99992 84580  
11371 15191 61672 751 43 00000

25/02 '842' 396 44 '????' '????' '????' '????' '????' 05395 08180 10046 75599 92144 81937 07296 46251 7785? 24975 56234 65846 81083 21223 06955  
12065 01343 98735 27441 38384 48774 96973 33719 93561 85290 91209 05644 69325 06824 22502 30521 87241 21369 06678 41750  
60665 02517 20747 44670 396 44 00000

**Fridays (1st & 3rd) 1900z 7812kHz 2000z 5736kHz (frequencies may vary slightly)**  
19/02 '761' 00000

**Saturdays (1st/3rd) 2000z 4031kHz 2100z 3513kHz (frequencies may vary slightly)**  
06/02 '614' 00000  
20/02 '614' 00000

**Tuesday Training schedule? (may repeat other days) 8187kHz/6779kHz 1700z/1730z**

16/02 '480' 567 42 85415 05660 12561 99127 26660 43262 00411 46085 73746 95785 34200 61430 27548 96964 43742 38222 82233 19822 36036 44229  
96640 58228 64164 97053 71641 44441 06586 08875 20979 70370 05853 69226 10439 27337 32993 35938 53868 48569 32626 22126  
84886 91515 567 42 00000 (this is a repeat of 18/03/2014 with different DK). Thanks to JkC

**S06s February log:**

**Sunday**

7th/14th 0630/40 13470/16515 '524' 830 6 41077 86907 84183 30025 37286 48992  
21st/28th '524' 801 6 37655 30146 34476 92326 41043 36472

**Monday**

1st/8th 0830/40 8057/8530 '371' 542 6 93615 84408 42179 52573 39788 36311  
15th/22nd '371' 820 6 33796 13577 74526 46647 97302 53516  
1st/8th 0900/10 14675/12830 '872' 964 5 31704 91596 47308 92107 40398  
15th/22nd '872' 451 6 80534 11160 43494 37638 16070 48834  
1st/8th 1300/10 8420/10635 '831' 974 5 58936 32738 84354 84061 43245  
15th/22nd '831' 524 6 38449 32465 41248 37387 84244 47367

**Tuesday**

2nd/9th 0600/10 16145/14240 '438' 569 7 88397 44942 37008 39333 48951 89083 89348  
16th/23rd '438' 597 6 33365 47183 81326 36388 94324 89348  
2nd/9th 0700/15 5250/6320 '374' 981 6 33279 44878 83314 33623 48130 (Only 5 groups sent)  
16th/23rd '374' 250 6 48992 45648 34061 83314 33623 37319  
2nd/9th 0730/40 7410/11537 '427' 953 6 46062 68672 97478 39685 30485 96632  
16th/23rd '427' 508 6 46062 68672 97478 39685 30485 96632  
2nd/9th 0800/10 11945/13195 '352' 917 6 21767 53672 11834 81022 36903 41412  
16th/23rd '352' 847 6 52401 63919 92 99 14600 74248 48754  
2nd/9th 1000/10 6440/5660 '893' 271 5 52401 63919 92699 14600 44248  
16th/23rd '893' 210 5 11171 64385 82707 06123 22536  
2nd/9th 1100/10 5035/5975 '754' 832 6 33797 13577 74526 46647 79302 53516  
16th/23rd '754' 890 6 37947 39747 31323 31829 47694 54123  
2nd/9th 1500/10 6845/9170 '537' 481 6 88620 58069 61732 74537 57440 10597  
16th/23rd '537' 201 6 38034 37823 38230 48235 38702 44520

**Wednesday**

3rd/10th 0530/40 7425/9069 '464' 870 5 43873 43343 96394 88446 87183  
17th/24th '464' 280 5 32474 32388 49873 31492 34793  
3rd/10th 0820/30 8417/9262 '471' 539 6 77620 58069 61732 74537 57440 10597  
17th/24th '471' 520 6 74248 48754 65125 41879 84648 42036

|           |         |             |   |
|-----------|---------|-------------|---|
| 3rd/10th  | 0830/40 | 11535/11830 | '745' 213 6 11171 64385 82707 06123 22536 88280             |
| 17th/24th |         |             | '745' 912 6 22536 88280 84116 53718 78927 34694             |
| 3rd/10th  | 1000/10 | 12365/14280 | '729' 516 8 48992 45648 34061 83314 33623 37319 37717 48130 |
| 17th/24th |         |             | '729' 403 5 45326 30478 39686 37977 32397                   |

**Thursday**

|                |         |             |   |
|----------------|---------|-------------|---|
| 4th/11th(E17z) | 0800/10 | 11170/9820  | '674' 205 8 61732 74537 57440 10597 23521 47660 92883 69901 |
| 18th/25th      |         |             | '674' 289 5 38034 37823 38330 48235 38702                   |
| 4th/11th       | 0900/10 | 5765/6315   | '624' 205 8 61732 74537 57440 10597 23521 47660 92883 69901 |
| 18th/25th      |         |             | '624' 987 5 49294 38064 31724 37234 39316                   |
| 4th/11th       | 0900/10 | 12952/13565 | '167' 250 8 82707 06123 22536 88280 84116 53718 78927 34694 |
| 18th/25th      |         |             | '167' 498 5 37947 39947 31323 31829 47694                   |
| 4th/11th       | 0930/40 | 8812/9540   | '314' 258 6 87183 32211 85443 34947 83434 49930             |
| 18th/25th      |         |             | '314' 298 5 46062 68672 94478 39685 30485                   |
| 4th/11th       | 1200/10 | 12155/10920 | '425' 830 6 33365 47183 81326 36388 94323 45547             |
| 18th/25th      |         |             | '425' 873 6 21767 53672 11834 81022 36903 41412             |

**Friday**

|           |         |             |  |
|-----------|---------|-------------|--|
| 5th/12th  | 0930/40 | 11780/12570 | '516' 928 7 33796 13577 74526 46647 79302 53516 254616 |
| 19th/26th |         |             | '516' 298 7 77620 58069 61732 74537 57440 10597        |

**Saturday**

|     |         |           |           |
|-----|---------|-----------|-----------|
| 6th | 1200/10 | 8680/8260 | '254' NRH |
|-----|---------|-----------|-----------|

Thanks to RNGB, JkC, Malc,

**S11a log Jan/Feb**

|         |       |   |                            |           |     |
|---------|-------|---|----------------------------|-----------|-----|
| 4828kHz | 0455z | 08/01 [329/32 73309 41825 29511 20290 53064 53321 31991.....19720 22275]        | KOHEЦ 0505z                | Ed Smith  | FRI |
|         | 0455z | 12/01 [321/00]  | KOHEЦ 0458z                | Ed Smith  | TUE |
|         | 0455z | 29/01 [321/00]  | KOHEЦ 0458z                | Ed Smith  | FRI |
|         | 0455z | 02/02 [321/00]  | KOHEЦ 0458z                | Ed Smith  | TUE |
| 5815kHz | 1955z | 01/01 [371/00]  | Konyetz 1958z S3           | Malc      | FRI |
|         | 1955z | 08/01 [372/34 18544 38355 73586 18558 17300 17222 81288 52559.....43347 96849]  | S5                         | JkC, Malc | FRI |
|         | 1955z | 13/01 [371/00]  | KOHEЦ 1958z QSA4 QRM1 QSB2 | JkC       | WED |
|         | 1955z | 20/01 [371/00]  | Konyetz 1958z S9+10        | Malc      | WED |
|         | 1955z | 22/01 [371/00]  | KOHEЦ 1958z QSA4 QRM1 QSB1 | JkC       | FRI |
|         | 1955z | 27/01 [371/00]  | Konyetz1958z S3            | Malc      | WED |
|         | 1955z | 03/02 [379/38 60319 91553 89221 69669 43293 92109 86652.....25601 26288]        | KOHEЦ 2006z                | Ed Smith  | WED |
|         | 1955z | 10/02 [371/00]  | S5                         | Malc      | WED |
|         | 1955z | 12/02 [371/00]  | Out 1958z S9+10            | Malc      | FRI |
|         | 1955z | 24/02 [371/00]  | KOHEЦ 1958z QSA4 QRM1 QSB1 | JkC       | WED |
| 7504kHz | 0915z | 01/01 [484/00]  | Konyetz 0918z S3           | Malc      | FRI |
|         | 0915z | 05/01 [484/00]  | Weak                       | RNGB      | TUE |
|         | 0915z | 12/01 [484/00]  | Weak                       | RNGB      | TUE |
|         | 0915z | 15/01 [484/00]  | Konyetz 0918z S2           | Malc      | FRI |
|         | 0915z | 19/01 [487/34 52581 77053 81369 69367 65279 47021 64195.....62726 08157]        |                            | RNGB      | TUE |
|         | 0915z | 22/01 [487/34 52581.....etc]  | Repeat of Tuesday          | Malc      | FRI |
|         | 0915z | 26/01 [484/00]  | S4                         | Malc      | TUE |
|         | 0915z | 29/01 [484/00]  |                            | Malc      | FRI |
|         | 0915z | 02/02 [484/00]  |                            | RNGB      | TUE |
|         | 0915z | 05/02 [484/00]  | S5                         | Malc      | FRI |
|         | 0915z | 12/02 [481/32 14279 78104 72406 93170 08119 63711 99766 46815 .....11422 23147] | 0925z S6                   | Malc      | FRI |
|         | 0915z | 16/02 [484/00]  | Fair                       | RNGB      | TUE |
|         | 0915z | 23/02 [484/00]  |                            | RNGB      | TUE |
| 9200kHz | 1625z | 02/01 [831/00]  |                            | RNGB      | SAT |
|         | 1625z | 05/01 [831/00]  | KOHEЦ 1628z QSA3 QRM3 QSB1 | JkC       | TUE |
|         | 1625z | 09/01 [831/00]  | KOHEЦ 1628z S6             | Malc      | SAT |
|         | 1625z | 16/01 [834/32 28030.....54396]  | 1634z S9                   | Malc      | SAT |
|         | 1625z | 19/01 [831/00]  | Konyetz 1628z S8           | Malc      | TUE |
|         | 1625z | 23/01 [831/00]  | Konyetz 1628z S9           | Malc      | SAT |
|         | 1625z | 26/01 [831/00]  | S5                         | Malc      | TUE |
|         | 1625z | 30/01 [831/00]  | KOHEЦ 1648z                | Ed Smith  | SAT |
|         | 1625z | 09/02 [839/38 72918 21727 68585 19484 87859 76380 85745.....04258 85477]        | Konyetz 1636z S9           | Malc      | TUE |
|         | 1625z | 13/02 [839/38 ВНИМАНИЕ 72918 21727.....04248 85477]                             | KOHEЦ 1636z                | Ed Smith  | SAT |
|         | 1625z | 23/02 [831/00]  | KOHEЦ 1628z QSA4 QRM2 QSB1 | JkC       | TUE |

|          |        |   |          |     |
|----------|--------|---|----------|-----|
| 9610kHz  | 1020z  | 01/01 [426/00] Konyetz 1023z S2   | Malc     | FRI |
|          | 1020z  | 12/01 [426/00] KOHEI 1023z  | Ed Smith | TUE |
|          | 1020z  | 15/01 [426/00] Konyetz 1023z S2   | Malc     | FRI |
|          | 1020z  | 19/01 [421/37.....VNIMANIE 87110.....25817]   | Malc     | TUE |
|          | 1020z  | 22/01 [421/37 87110 02103 42474 21153 38265 18125 28032 81809.....72892 25817] Weak     | RNGB     | FRI |
|          | 1020z  | 26/01 [426/00] S7   | Malc     | TUE |
|          | 1020z  | 29/01 [426/00]  | Malc     | FRI |
|          | 1020z  | 02/02 [421/33 53270 53134 60319 18032 12126 54851 00277 12888.....41192 37594]          | RNGB     | TUE |
|          | 1020z  | 05/02 [421/33 53270.....etc] Repeat of Tuesday S7                                       | Malc     | FRI |
|          | 1020z  | 09/02 [426/00]  | Malc     | TUE |
|          | 1020z  | 12/02 [426/00] Out 1023z S5   | Malc     | FRI |
|          | 1020zx | 26/02 [426/00] Fair   | RNGB     | FRI |
| 12530kHz | 1015z  | 07/01 [472/39 69533 58138 99278 54658 66328 98795 72498 19305.....53197 99358] Fair/QSB | RNGB     | THU |
|          | 1015z  | 14/01 [475/00] 1018z S7   | Malc     | THU |
|          | 1015z  | 25/01 [475/00] Good   | RNGB     | MON |
|          | 1015z  | 28/01 [475/00] Konyetz 1018z S7   | Malc     | THU |
|          | 1015z  | 01/02 [475/00]  | Malc     | MON |
|          | 1015z  | 08/02 [475/00] Weak   | RNGB     | MON |
|          | 1015z  | 15/02 [475/33 93427 95899 80090 68196 95787 83331 73070.....24826 55510] KOHEI 1025z    | Ed Smith | MON |
|          | 1015z  | 29/02 [475/00] S9   | Malc     | MON |
| 19099kHz | 0715z  | 04/01 [382/00] Weak   | RNGB     | MON |
|          | 0715z  | 11/01 [382/00] Weak   | RNGB     | MON |
|          | 0715z  | 25/01 [389/33 08159 43823 03126 67369 56529 79775 31311.....22358 40212] Very weak      | RNGB     | MON |
|          | 0715z  | 01/02 [382/00] Weak   | RNGB     | MON |
|          | 0715z  | 08/02 [382/00] Weak   | RNGB     | MON |
|          | 0715z  | 22/02 [387/33 43540 77945 67145 60799 60394.....64610 64829] ? Very weak                | RNGB     | MON |

### V02a

V02a continued to make its rare appearances with one each in both January and February. As usual the transmissions were in LSB mode and appeared only in the 2000z time slot.

|         |       |                            |          |     |
|---------|-------|----------------------------|----------|-----|
| 7554kHz | 2000z | 21/0 [A06211 10531 23062]  | MaleAnon | THU |
| 7554kHz | 2000z | 11/02 [A77611 81142 14461] | MaleAnon | THU |

### V07

#### Sunday

#### January 2016

| 0100z | 16037kHz                             | 0120z | 14637kHz | 0140z | 12.137kHz |
|-------|--------------------------------------|-------|----------|-------|-----------|
| 03/01 | 661 000                              |       |          |       | Very weak |
| 10/01 | 661 000                              |       |          |       | Weak      |
| 17/01 | 661 000                              |       |          |       | Weak      |
| 24/01 | 661 1 339 85 70002 ... 75373 000 000 |       |          |       | Fair      |

661 1 339 85  
70002 37538 13784 79341 90128  
27738 83238 77288 23299 25935  
83319 20557 18881 81935 48424  
02525 30351 41837 23910 85019  
77319 31395 42803 99483 24387  
23335 83042 59039 03377 33522  
78370 24478 25035 34553 42500  
33299 04781 33489 33545 21725  
43341 14548 59218 29295 70058  
73829 30822 23273 53178 12720  
57237 73032 30305 70349 33134  
02735 55473 03822 02810 01303  
41734 03932 51745 27253 89405  
40270 50834 09919 85547 90582  
93012 38353 74593 73373 83989  
52757 00323 27190 03544 18345  
23791 51937 15138 21834 75373  
000 000 *Courtesy DanAr*

|       |         |  |  |  |      |
|-------|---------|--|--|--|------|
| 31/01 | 661 000 |  |  |  | Weak |
|-------|---------|--|--|--|------|

#### February 2016

| 0100z | 18368kHz    | 0120z | 16268kHz | 0140z | 13968kHz         |
|-------|-------------|-------|----------|-------|------------------|
| 07/02 | 329 1 ..... |       |          |       | Weak, unworkable |

|       |                                      |              |
|-------|--------------------------------------|--------------|
| 14/02 | 329 000                              | Strong + hum |
| 21/02 | 329 1 133 67 49307 ... 37783 000 000 | Weak         |
| 28/02 | 329 000                              | Very weak    |

**V21 The Babblers**

The Babblers continues to be mostly weak and difficult to copy. Most transmissions during January/February were of the counting variety although operational traffic was heard on one occasion and added a little insight into their operations. Unusually a SS/YL was heard on two occasions. On 27/28 Feb on 5637kHz two different voices were heard and each had a different style of counting.

Expect the transmissions to switch to 1300z when the clocks "Spring forward" in March.

Logs

|                        |  |     |
|------------------------|--|-----|
| V21 6529kHz 1400z 1/1  | Weak, two counts to 60 audible.  | FRI |
| V21 5637kHz 1400z 1/1  | Very weak signal.  | FRI |
| V21 6529kHz 1408z 9/1  | [40, 40.....] Found in progress.   | SAT |
| V21 5637kHz 1409z 9/1  | [...40, 40, 40, 40, 40, 20 END] SS/YL for a change. Both Babblers counting to 40 today.  | SAT |
| V21 6529kHz 1408z 17/1 | Present but too weak to copy.  | SUN |
| V21 5637kHz 1409z 17/1 | Very weak but multiple counts to 32 audible.   | SUN |
| V21 5637kHz 1409z 18/1 | Present but too weak to copy.  | MON |
| V21 6529kHz 1408z 18/1 | Present but too weak to copy.  | MON |
| V21 5637kHz 1400z 23/1 | [...40, 40, 40, 40, 40, 40, 40, 40, 40, 40, 30, 40, 40, 40, 10 END] Found in progress, SS/YL counting.   | SAT |
| V21 6529kHz 1400z 23/1 | [...30, 20, 40, 10, 10, 20, 20, 30, 40, 20, 50, 20, 20, 40, 10...] Found in progress. Fast delivery,   | SAT |
| V21 6529kHz 1400z 24/1 | Present but too weak to copy.  | SUN |
| V21 6529kHz 1400z 29/1 | Weak, some counts to 30 heard.   | FRI |
| V21 5637kHz 1400z 30/1 | Present but too weak to copy.  | SAT |
| V21 6529kHz 1400z 30/1 | Preseent but too weak to copy.   | SAT |
| V21 5637kHz 1400z 31/1 | Barely audible but definitely the Babbler.   | SUN |
| V21 6529kHz 1400z 31/1 | Weak, some counts to 40 heard.   | SUN |
| V21 5637kHz 1400z 12/2 | Too weak to copy.  | FRI |
| V21 5637kHz 1400z 13/2 | Too weak to copy.  | SAT |
| V21 6529kHz 1400z 13/2 | Too weak to copy.  | SAT |
| V21 6529kHz 1400z 14/2 | Too weak to copy.  | SUN |
| V21 5637kHz 1400z 27/2 | [...40, 50, 50, 50, 40, 50, 40, 40, 40, 30, 32, 40, change voice, 11, 42, restart at 22 count to 39, restart at 31 count to 72, 22, 52, 52, 22 END.] Found in progress | SAT |
| V21 5637kHz 1400z 28/2 | [00 30, 40, 40, 40, 40, 40, 40, 5, 5, 50, 11, 40, 40, 40, 40, 40, 30, 30, 40, New voice 50, 100 END  | SUN |

**Operational traffic.**

V21 5637kHz 23/1 1300z SS/OM reading strings of numbers including:

23 23 330 25 25.....29 29 336 244 136.....26 26 336 223 336 223 06.....30 30 394 228 394 228 06.....00 31 00 31 344 363 344  
364 07.....27 27 344 399 344 399.....00 32 00 32 336 138 008 08.....30 30 394 ????.....31 31 320 132 00 38 00 38 131 136  
229 11 00 8 11.....32 32 336 229 336 229 11.....33 33 336 ????.....32 32 336 411 16.....  
32 32 336 411 336 411 16.....00 35 00 35 196 221 196 221 11 00 16.....

## Analysis

On 23/1 some operational traffic was found at 1300z. The format appears to have changed slightly in that the "coordinates" appear to be sent twice most of the time at least. One more piece of intelligence about their system has become apparent. The messages seem to consist of "Target Number" "Target Coordinates" "Minute time stamp" But some of the target numbers were given with leading zeros. It becomes apparent that this indicates a new target as subsequent reports for that target number do not contain the leading zeros. There also seems to be a trailing 00 after the coordinates and in some cases an 8 was heard preceding the minute stamp. In this case at least this appears to indicate the local hour. Z -5 hours for Cuba, 1300z = 0800 Local. Note also that in the example above 00 38 is transmitted out of sequence, and probably should have been 00 33. Two examples shown below are for target "32" first appearance at 1308z and a subsequent transmission at 1311z note the 00s in the first message.

00 32 00 32 336 138 00 8 08

32 32 336 229 336 229 11

In addition it is possible that there is an indication when a target is dropped, as was heard twice during the above transmission, unfortunately the phrase used was unintelligible even for our Spanish interpreter.

Normally the 5637kHz transmissions are found in progress but on 28/2 we caught the beginning of the transmission and interestingly it began with "00" which we had a few days earlier deduced meant first transmission for a particular target/message.

## V24

I reported on Feb 15, 2016, that it appeared South Korean station V24 had possibly returned to activity.

Recap, V24 was last reported to have transmitted on June 16, 2015. In November of 2015 there were some music transmissions on two long time V24 frequencies, 36 hours of the same Korean pop song looped continuously on both 4900 kHz and 6215 kHz. On February 14, 2016, the station was reported on a Japanese language forum, using 5290 kHz at 1430z. Unfortunately I had given up recording for and searching for V24 at the end of January 2016, two weeks previously (let this be a lesson, they are not gone until they are gone). While recording for another station I coincidentally recorded that frequency at that time, but on an antenna pointed the wrong way, so I can say there was a carrier present at that time, but I got no usable audio.

I started watching for this station again the next day, Feb 15, 2016.

V24 Logs, 15 February to 21 February, 2016:

V24 6215kHz 1500z 15/02/2016 [intro music Korean pop, YL, KK, 5f] Token MON  
V24 5290kHz 1430z 17/02/2016 [intro music Korean pop, YL, KK, 5f] Token WED  
V24 6310kHz 1400z 18/02/2016 [intro music Korean pop, YL, KK, 5f] Token THU  
V24 6215kHz 1500z 19/02/2016 [intro music Korean pop, YL, KK, 5f] Token FRI  
V24 6310kHz 1400z 20/02/2016 [intro music Korean pop, YL, KK, 5f] Token SAT  
V24 6215kHz 1500z 20/02/2016 [intro music Korean pop, YL, KK, 5f] Token SAT  
V24 6310kHz 1400z 21/02/2016 [intro music Korean pop, YL, KK, 5f] Token SUN  
V24 4900kHz 1500z 21/02/2016 [intro music Korean pop, YL, KK, 5f] Token SUN

At this point I have to wonder if the station is still shaking out operations. This is a small data set to try and look at trends, but we have to start someplace.

Note that the times of operation are so far only during the 1400, 1430, and 1500 time slots. In the past V24 used a time frame as wide as 1130z to 1640z time slots although more typically the time period from 1230 to 1630z was used (an example schedule from 2011 here

[http://www.tokenradio.net/Radio/SharedFiles/NumbersTfer/V24\\_M94\\_sched\\_V\\_3\\_0\\_Jul\\_2011.JPG](http://www.tokenradio.net/Radio/SharedFiles/NumbersTfer/V24_M94_sched_V_3_0_Jul_2011.JPG) ). Although at the time it apparently ceased operations in June 2015 it had narrowed to 1300z to 1530z (schedule from early 2015 here

[http://www.tokenradio.net/Radio/SharedFiles/NumbersTfer/V24\\_sched\\_V\\_11\\_0\\_1Q\\_2015.JPG](http://www.tokenradio.net/Radio/SharedFiles/NumbersTfer/V24_sched_V_11_0_1Q_2015.JPG) ). I have been making daily wideband (4000 kHz to 9000 kHz) recordings from 1100z to 1700z to search for new frequencies and to confirm operational times and frequencies.

Recording of the Feb 15, 1500z, 6215 kHz, transmission here:

<https://www.youtube.com/watch?v=wxalaT0ozlg>

Recording of the Feb 21 (today), 1500z, 4900 kHz transmission here:

<https://www.youtube.com/watch?v=2PEqspk6F9M>

The annotations on the Feb 21 transmission are for the benefit of some South Korean listeners. This station has a fair following in Korea and Japan, this has swelled quite a bit in the last couple of years and has exploded in the last week. They have developed some interesting theories on the use and source location of the station. One of those theories is that it uses the same transmitters as Echo of Hope does on 4885 kHz when EoH is not active. I think the source of this theory is what might be jammer or Echo of Hope audio cross talk is sometimes heard in the V24 audio. The purpose of my annotations is to show that both Echo of Hope on 4885 kHz and V24 on 4900 kHz were active at the same time.

Thanks T!

**V26**

7553kHz0900z 11/01 [(IP) (Remote tuner Hong Kong)] JPL MON  
(IP - In Chinese digital 4+4 QPSK 75/3000 - LSB - 0900z)  
(Switched to voice - USB - 0922z) (End of V26 sked - 1002z) (Monitored until 1018z for M95 without luck)

From T!

Note that this morning (January 12, 2016) in the 1300 UTC time frame the CHN 4+4 modem associated with V26 was in alternate sidebands. On 4283 and 7553 kHz it was in LSB, and on 9153 kHz it was in USB. Such mode changes are not that uncommon for this station. I have a set of SDR IQ recordings around of V26 itself on different modes for each freq. 4283 kHz was LSB, 7553 kHz was AM, and 9153 kHz was USB, however as normal they were all parallel transmissions of the same audio.

Follow up, and the V26 following the CHN 4+4 on 9153 was in LSB starting at 1309 UTC, January 12, 2016, while 7553 and 4283 were in USB.

9153 kHz 1309z 12/01/16 (yl/cc 3f, broken English letters, end 1344z) [note LSB mode] Token TUE  
7553 kHz 1309z 12/01/16 (yl/cc 3f, broken English letters, end 1344z) [note USB mode] Token TUE  
4283 kHz 1309z 12/01/16 (yl/cc 3f, broken English letters, end 1344z) [note USB mode] Token TUE

9054kHz1138z 16/02[([4243) (Remote tuner Hong Kong)] JPL TUE  
(Into Chinese voice - USB - Female)  
(Switched to CW (M95) - 1148z)  
(This appears to be a regular sked)

9054kHz1045z 18/01(IP) (Remote tuner Hong Kong)] JPL THU  
(In Chinese voice - LSB - Female - Cont'd - 1045z)

9054kHz1138z 19/01/16[(IP) (/ 4243) (Remote tuner Hong Kong)] JPL FRI  
(In Chinese voice - LSB - Female - Cont'd - // 4243 - 1138z)

9054kHz1257z 22/02[(IP) (Silent - 1258z) (/ 4243) (Remote tuner Hong Kong)] JPL MON

9054kHz1212z 23/02[(IP - Female - Chinese - USB - // 4243) (Remote tuner Hong Kong)] JPL TUE

9054kHz1212z 25/02[(IP - Female - Chinese - USB - // 4243) (Remote tuner Hong Kong)] JPL TUE

4243kHz1203z 26/02[(IP - Female - Chinese - USB - // 9054) (Remote tuner Hong Kong)] JPL FRI

8073kHz1204z 26/02[(IP - Male - Chinese - USB) (Remote tuner Hong Kong)] JPL FRI

9054kHz1203z 26/02[(IP - Female - Chinese - USB - // 4243) (Remote tuner Hong Kong)] JPL FRI

8073kHz0025z 27/02[(Female - Chinese - USB - // N/H) (Remote tuner Hong Kong)] JPL SAT

9054kHz0005z 27/02(Female - Chinese - USB - // N/H) (Remote tuner Hong Kong)] JPL SAT

**Polytones**

**XPA c**

**Wednesday/Saturday**

**January 2016**

| 0700z | 9108kHz | 0720z             | 10908kHz | 0740z        | 12208kHz |                       |
|-------|---------|-------------------|----------|--------------|----------|-----------------------|
| 02/01 | 192 000 | 02417 00001 00000 | 10140    |              |          | Very strong           |
| 06/01 | 192 000 | 02839 00001 00000 | 10140    | [Poor condx] |          | Weak rising to strong |
| 09/01 | 192 000 | 03338 00001 00000 | 10140    |              |          | Very strong           |
| 13/01 | 192 1   | 02817 00109 86678 | 76306    | [Poor condx] |          | Weak rising to strong |
| 16/01 | 192 1   | 02817 00109 86678 | 76306    |              |          | Very strong, QRM3     |

192 192 192 1 192 192 192 1 192 192 192

02817 00109 86678 45963 20774 27518 73400 71505 90116 84144  
28426 41826 24259 63293 64444 33819 79948 68543 31658 99320  
18127 76881 68538 70405 60141 56403 22616 32589 99422 55630  
42957 92258 48085 29174 20120 42791 03795 62506 19942 16229  
91979 89065 53340 98463 64119 49026 45933 21038 45022 34313  
84199 59433 12792 89157 65458 11196 14873 22286 07547 10000  
60333 22633 09551 20154

59067 16959 28153 84031 10700 71520 57628 28062 81791 81501  
35918 25831 45361 23921 51299 35624 65685 86352 61567 91557  
51613 57280 05484 24942 63150 14700 93912 05039 52447 99234  
57472 81562 10801 92180 40299 77934 25248 72771 36636 45418  
60161 53571 25332 98056 03183 21660 08471 76306+++++++  
+++++++

|       |                                 |             |
|-------|---------------------------------|-------------|
| 20/01 | 192 000 09592 00001 00000 10140 | Very strong |
| 23/01 | 192 000 07814 00001 00000 10140 | Very strong |
| 27/01 | 192 1 01849 00167 78965 47335   | Very strong |
| 30/01 | 192 1 01849 00167 78965 47335   | Very strong |

**February 2016**

| 0700z | 11409kHz                        | 0720z | 13509kHz | 0740z        | 14609kHz |              |
|-------|---------------------------------|-------|----------|--------------|----------|--------------|
| 03/02 | 456 1 03388 00227 64958 20633   |       |          |              |          | Very strong  |
| 06/02 | 456 1 03388 00227 64958 20633   |       |          |              |          | Very strong  |
| 10/02 | 456 1 07163 00261 08319 50233   |       |          |              |          | Very strong  |
| 13/02 | 456 1 07165 00261 08319 50233   |       |          | [0740z QRM3] |          | Very strong  |
| 17/02 | 456 000 08690 00001 00000 10140 |       |          | [0740z Fair] |          | Very strong  |
| 20/02 | 456 000 05058 00001 00000 10140 |       |          |              |          | Strong       |
| 24/02 | 456 000 09249 00001 00000 10140 |       |          |              |          | Very strong  |
| 27/02 | 456 000 07236 00001 00000 10140 |       |          |              |          | Strong, QSB2 |

XPA e

**Tuesday/Thursday**

**January 2016**

| 1900z | 7891kHz                         | 1920z | 6791kHz | 1940z                   | 5391kHz |                            |
|-------|---------------------------------|-------|---------|-------------------------|---------|----------------------------|
| 05/01 | Null Msg                        |       |         |                         |         | Extremely weak, unworkable |
| 07/01 | 873 000 07947 00001 00000 10140 |       |         | [1900/1920z unworkable] |         | Weak                       |
| 12/01 | Null Msg                        |       |         |                         |         | Extremely weak, unworkable |
| 14/01 | Msg                             |       |         |                         |         | Extremely weak, unworkable |
| 19/01 | Msg                             |       |         |                         |         | Extremely weak, unworkable |
| 21/01 | 873 1 07039 00245 76195 24142   |       |         | [1900/1920z NRH]        |         | Weak, QSB to nil           |
| 26/01 | 813 000 03089 00001 00000 10140 |       |         | [1920/1940z unworkable] |         | Extremely weak             |
| 28/01 | 873 000 04628 00001 00000 10140 |       |         | [1920/1940z unworkable] |         | Fair                       |

**February 2016**

| 1900z | 8123kHz                         | 1920z | 7523kHz | 1940z                   | 6823kHz  |                       |
|-------|---------------------------------|-------|---------|-------------------------|----------|-----------------------|
| 02/02 | Message 5m38s long              |       |         |                         |          | All slots unworkable  |
| 04/02 | 158 1 00602 00313 65831 42032   |       |         | [1940z unworkable]      | 5m38s lg | Weak and noisy        |
| 09/02 | 158 000 05270 00001 00000 10140 |       |         | [1940z unworkable]      |          | Very weak [Twente]    |
| 11/02 | 158 000 06004 00001 00000 10140 |       |         | [1920/1940z unworkable] |          | Very weak             |
| 16/02 | 158 1 06273 00319 03541 70372   |       |         |                         |          | Weak, QSB3            |
| 18/02 | 158 1 06273 00319 03541 73072   |       |         |                         |          | Fair                  |
| 23/02 | Full Msg 4m23s lg               |       |         |                         |          | Very weak, unworkable |
| 25/02 | 158 1 09138 00205 75285 03460   |       |         | [1940z weak, QRM3/4]    | 4m23s lg | Strong                |

**XPA2 m**

**Sunday/Tuesday**

**January 2016**

| <b>1300z</b> | <b>16138kHz</b>         | <b>1320z</b> | <b>14438kHz</b> | <b>1340z</b> | <b>13438kHz</b> |                  |
|--------------|-------------------------|--------------|-----------------|--------------|-----------------|------------------|
| 03/01        | 02041 00001 00000 10140 |              |                 |              |                 | Extremely strong |
| 05/01        | 04671 00001 00000 10140 |              |                 | [1300z Fair] |                 | Weak             |
| 10/01        | 04456 00001 00000 10140 |              |                 |              |                 | Very strong      |
| 12/01        | 07186 00001 00000 10140 |              |                 |              |                 | Fair             |
| 17/01        | 00469 00121 15552 72131 |              |                 |              |                 | Fair             |
| 19/01        | 00469 00121 15552 72131 |              |                 |              |                 | Very strong      |
| 23/01        | 03615 00001 00000 10140 |              |                 |              |                 | Extremely strong |
| 26/01        | 08160 00001 00000 10140 |              |                 |              |                 | Fair             |
| 31/01        | 05135 00083 67617 16733 |              |                 |              |                 | Strong           |

**February 2016**

| <b>1500z</b> | <b>16338kHz</b>         | <b>1520z</b> | <b>14538kHz</b> | <b>1520z</b>            | <b>13538kHz</b> |             |
|--------------|-------------------------|--------------|-----------------|-------------------------|-----------------|-------------|
| 02/02        | 05135 00083 67617 16733 |              |                 |                         |                 | Strong      |
| 07/02        | 02241 00001 00000 10140 |              |                 |                         |                 | Very strong |
| 14/02        | 09562 00067 06812 73372 |              |                 |                         |                 | Very strong |
| 16/02        | 09562 00097 06812 73372 |              |                 |                         |                 | Very strong |
| 21/02        | 03059 00001 00000 10140 |              |                 | [1520/1540z unworkable] |                 | Weak        |
| 23/02        | 06571 00001 00000 10140 |              |                 | [1520/1540z unworkable] |                 | Weak        |
| 28/02        | 01127 00089 48085 63305 |              |                 |                         |                 | Fair/Strong |

**XPA2 p**

**Monday/Wednesday**

**January 2016**

| <b>0800z</b> | <b>15978kHz</b>         | <b>0820z</b> | <b>14978kHz</b> | <b>0840z</b>            | <b>14378kHz</b> |                   |
|--------------|-------------------------|--------------|-----------------|-------------------------|-----------------|-------------------|
| 04/01        | 06683 00001 00000 10140 |              |                 |                         |                 | Very strong       |
| 06/01        | 05549 00001 00000 10140 |              |                 |                         |                 | Very strong       |
| 11/01        | 01968 00001 00000 10140 |              |                 |                         |                 | Strong, some QSB2 |
| 13/01        | 05209 00001 00000 10140 |              |                 |                         |                 | Strong            |
| 18/01        | 03663 00191 42640 31056 |              |                 |                         |                 | Very strong       |
| 20/01        | 03663 00191 42640 31056 |              |                 |                         |                 | Fair              |
| 25/01        | 03725 00001 00000 10140 |              |                 |                         |                 | Fair, some QSB3   |
| 26/01        | 07158 00001 00000 10140 |              |                 | [0800/0820z Weak, QSB3] |                 | Strong            |

**February 2016**

| <b>0800z</b> | <b>15983kHz</b>         | <b>0820z</b> | <b>14783kHz</b> | <b>0840z</b> | <b>13883kHz</b> |             |
|--------------|-------------------------|--------------|-----------------|--------------|-----------------|-------------|
| 01/02        | 07413 00001 00000 10140 |              |                 |              |                 | Very strong |
| 03/02        | 05517 00001 00000 10140 |              |                 |              |                 | Strong      |
| 08/02        | 05237 00001 00000 10140 |              |                 |              |                 | Very strong |
| 10/02        | 01877 00001 00000 10140 |              |                 |              |                 | Very strong |

|       |                         |                              |                |
|-------|-------------------------|------------------------------|----------------|
| 15/02 | 06969 00001 00000 10140 |                              | Very strong    |
| 17/02 | 02200 00001 00000 10140 |                              | Very strong    |
| 22/02 | 01437 00125 25553 55435 | [0840z Strong]               | Weak and noisy |
| 24/02 | 05861 00001 00000 10140 | [0800z dropped out at start] | Very strong    |
| 29/02 | 04101 00001 00000 10140 |                              | Very strong    |

**XPA2 r**

**Friday/Saturday**

**January 2016**

| 1400z | 16167kHz                | 1420z | 14663kHz | 1440z                          | 13923kHz |             |
|-------|-------------------------|-------|----------|--------------------------------|----------|-------------|
| 01/01 | 06166 00001 00000 10140 |       |          |                                |          | Very strong |
| 02/01 | 06994 00001 00000 10140 |       |          |                                |          | Very strong |
| 08/01 | 04633 00001 00000 10140 |       |          | [1420z Fair QSB2]              |          | Very strong |
| 09/01 | 04456 00001 00000 10140 |       |          | [1420z, missed PC malfunction] |          | Very strong |
| 15/01 | 05118 00073 64200 20605 |       |          |                                |          | Fair        |
| 16/01 | 05118 00073 64200 20605 |       |          |                                |          | Very strong |
| 22/01 | 01116 00001 00000 10140 |       |          |                                |          | Fair        |
| 23/01 | 01971 00001 00000 10140 |       |          |                                |          | Very strong |
| 29/01 | 02592 00107 89547 17406 |       |          |                                |          | Very strong |
| 30/01 | 04621 00001 00000 10140 |       |          |                                |          | Strong      |

**February 2016**

| 1400z | 18667kHz                | 1420z | 17419kHz | 1440z | 16212kHz |             |
|-------|-------------------------|-------|----------|-------|----------|-------------|
| 05/02 | 05868 00089 12635 22654 |       |          |       |          | Fair        |
| 06/02 | 05868 00089 12635 22654 |       |          |       |          | Very strong |
| 12/02 | 03510 00001 00000 10140 |       |          |       |          | Very strong |
| 13/02 | 05113 00001 00000 10140 |       |          |       |          | Very strong |
| 19/02 | 03666 00073 03726 07271 |       |          |       |          | Very strong |
| 20/02 | 03666 00073 03726 07271 |       |          |       |          | Very strong |
| 26/02 | 04723 00075 26498 21210 |       |          |       |          | Weak, QSB2  |
| 27/02 | 04723 00075 26498 21210 |       |          |       |          | Fair/strong |

**XPA2 t**

**Tuesday/Friday**

**January 2016**

| 0700z | 13472kHz                | 0720z | 14772kHz | 0740z | 16272kHz |
|-------|-------------------------|-------|----------|-------|----------|
| 12/01 | 05613 00121 63264 56520 |       |          |       |          |

05613 00121 63264 77390 74059 32605 84508 91324 32810 37171  
94197 64475 42418 84812 12705 64107 60428 74490 57044 70597  
24541 27324 63725 08239 78445 74717 52206 14864 05288 19663  
57480 22882 11432 17089 15097 95545 63699 83428 36142 93270  
29652 06678 48595 97580 97423 96007 37406 96071 12773 49173  
49669 83452 95088 81708 06129 22331 49881 88330 70258 60988  
88508 30017 57178 10869 14600 34510 99586 02568 54717 26749  
51288 55531 35503 89580 88766 67114 06705 84795 30688 99853  
66839 01660 08793 80932 19217 06580 25491 50116 52365 05782  
32644 62719 22303 53826 73551 90784 06558 08667 29042 09769  
74393 82362 16504 95547 89422 85313 41116 02374 99962 62446  
06787 90420 02758 28489 03686 22028 05233 78456 60953 16335  
04456 45320 94044 56520

*Courtesy Ary*

|       |                         |                                     |                      |
|-------|-------------------------|-------------------------------------|----------------------|
| 15/01 | 05613 00121 63264 56520 | [0700/0720z NRH]                    | Strong [Twente]      |
| 19/01 | 09776 00001 00000 10140 | [all slots heard in UK, best 0740z] | Strong [Twente]      |
| 22/01 | 09391 00001 00000 10140 |                                     | Fair [Twente]        |
| 26/01 | 04549 00087 27458 22620 | [all slots heard in UK, best 0740z] | Very strong [Twente] |
| 29/01 | 04549 00087 27458 22620 |                                     | Very strong [Twente] |

04549 00087 27458 13637 32728 83671 48498 86694 11659 80713  
39758 61332 05449 94325 05208 98050 57003 62202 91001 10450  
31754 43535 92447 34506 24317 32093 78104 53491 85314 07172  
90136 45589 26113 64496 88301 46095 36549 50436 01154 02601  
76667 88910 07261 11641 94306 40139 34885 64652 70841 22431  
94449 10678 36172 58219 39390 90131 59470 56684 86813 61331  
61115 87832 14586 90496 22065 29550 15413 93271 00198 72886  
25696 38031 55812 33672 78019 47387 72295 68738 27568 52418  
44332 22387 77216 82736 74713 82615 37532 65805 68345 22620  
*Courtesy PLdn*

## February 2016

| 0700z | 14558kHz                | 0720z | 15958kHz | 0740z           | 17458kHz |                          |
|-------|-------------------------|-------|----------|-----------------|----------|--------------------------|
| 02/02 | 07110 00001 00000 10140 |       |          |                 |          | Very strong[Twente]      |
| 05/02 | 06005 00001 00000 10140 |       |          |                 |          | Very strong[Twente]      |
| 09/02 | 04544 00139 84814 06125 |       |          |                 |          | Very strong[Twente]      |
| 12/02 | 04544 00139 84814 06125 |       |          |                 |          | Extremely strong[Twente] |
| 16/02 | 05162 00001 00000 10140 |       |          | [0740z TTYQRM3] |          | Very strong              |
| 19/02 | 01862 00001 00000 10140 |       |          |                 |          | Weak                     |
| 23/02 | 06381 00001 00000 10140 |       |          |                 |          | Very strong[Twente]      |
| 26/02 | 09037 00001 00000 10140 |       |          |                 |          | Very strong              |

## DATA

|  |   |     |     |
|--|---|-----|-----|
| FSK POL 9179kHz 1610z<br>Associated S11a = 831/00  | 05/01[0877 (R5) 00000 (R10)]1611z QSA3 QRM1 QSB1                                      | JkC | TUE |
| FSK POL 9179kHz 1615z  | 05/01[0877 (R5) 00000 (R10)]1616z QSA3 QRM1 QSB1                                      | JkC | TUE |
| FSK POL 4505kHz 1305z<br>Associated M03 = 437/00   | 07/01[0437 (R5) 00000 (R10)]1306z QSA3 QRM1 QSB1                                      | JkC | THU |
| FSK POL 4505kHz 1310z  | 07/01[0437 (R5) 00000 (R10)]1311z QSA3 QRM1 QSB1                                      | JkC | THU |
| FSK POL 9179kHz 1610z<br>Associated S11a = 831/00  | 19/01[0877 (R5) 00000 (R10)]1611z QSA4 QRM1 QSB1                                      | JkC | TUE |
| FSK POL 9179kHz 1615z  | 19/01[0877 (R5) 00000 (R10)]1616z QSA4 QRM1 QSB1                                      | JkC | TUE |
| FSK POL 4505kHz 1305z 21/01[0437 (R5) 88888 (R2) 33349 ... 29166 88888 (R2) 00035 (R2)]1306z QSA4 QRM1 QSB1<br>Associated M03 = 435/31 See transcript  |   | JkC | THU |
| FSK POL 4505kHz 1310z 21/01[0437 (R5) 88888 (R2) 33349 ... 29166 88888 (R2) 00035 (R2)]1311z QSA4 QRM1 QSB1  |   | JkC | THU |
| FSK POL 4505kHz 1305z/1310z 21/01<br>0437 (R5)<br>88888 88888<br>33349 03021 97033 91045 61972 51795 19003 43266 00933 49616<br>52784 45741 54841 80775 77830 84684 33482 68876 39017 99218<br>00908 86782 25688 40562 48948 39679 17892 22315 30783 29166<br>90672<br>88888 88888<br>00035 00035<br><i>Courtesy JkC</i> |   |     |     |
| FSK POL 4505kHz 1305z<br>Associated M03 = 435/31 Repeat of 21/01/16  | 24/01[0437 (R5) 88888 (R2) 33349 ... 29166 88888 (R2) 00035 (R2)]1306z QSA4 QRM1 QSB1 | JkC | SUN |
| FSK POL 4505kHz 1310z  | 24/01[0437 (R5) 88888 (R2) 33349 ... 29166 88888 (R2) 00035 (R2)]1311z QSA4 QRM1 QSB1 | JkC | SUN |
| FSK POL 4828kHz 1305z<br>Associated M03 = 543/00 [Zielona Góra remote]   | 25/01[0537 (R5) 00000 (R10)]1306z QSA4 QRM1 QSB1                                      | JkC | MON |
| FSK POL 4828kHz 1310z  | 25/01[0537 (R5) 00000 (R10)]1311z QSA4 QRM1 QSB1                                      | JkC | MON |

DATA continued .....

M42c,
11077kHz 1015z
9160kHz 1025z
7507kHz 1035z

FSK 200/500, with header, which doesn't happen too often. 2 Messages.
Messages as sent and written down as 5fgs

211110009777423182507200839
=7971 005661553438915960
=8592 035381525692004148
=8193 671502792522302111
=8454 979797681705600153
=8245 092228459366341148
=8176 17427990723575782
=8217 734171758666239150
=8328 15858572586354226
=8309 80060566167664157
=90410 250294346519044119
=80511 43436704601882575
=85912 91437563215423835
=81913 58194093384435590
=83214 533618013708412115
=85015 75095267956032058
=80616 46168069689603498
=87117 28066534719050120
=81918 702918604701765139
=84519 48475647499531513
(=85020 96967886278532474

=88921 92848359593034344
=82522 783653380786603109
=86723 48265687357568144
=83224 77243635813470682
=89425 465220661037299139
=84526 93106644431007157
=82927 45265931700058068
=84228 720810000000000153
=72029 00000000000000107
=72030 00000000000000067
=87331 11100097779834288
=83532 250730095988100151
=83433 68389170530323264
=83834 07243119507907199
=82835 593114208380927119
=84036 10650145992533728
=86237 30386194934461385
=88838 945252261565473108
=86239 65775920934646789
=80140 51027561631288471
=86241 734999563696657122

=83842 53671243766158072
=84743 684544442843959152
=84244 23142678496602211
=83845 08527964622424985
=87546 840181356672222130
=77547 323445329415556110
=83248 183493437973128178
=82349 26206449231345490
=89350 974778256448488151
=85951 83805301144144534
=87952 779378899059305109
=85253 71611891684392288
=84554 11745421468069794
=87855 816913039930455100
=86756 274229110705971132
=86857 98335547055590299
=85858 166680954619991127
=87359 315325595087321142
=87260 94118205085296064
=87761 35266595363221153
=85362 153187006167592100
=85463 38108489587309363
)57664 00000++++++219

11100 09777 42318 25072 00839

00566 15534 38915 03538 15256 92004 67150 27925 22302 97979
76817 05600 09222 84593 66341 17427 99072 35757 73417 17586
66239 15858 57258 63542 80060 56616 76641 25029 43465 19044
43436 70460 18825 91437 56321 54238 58194 09338 44355 53361
80137 08412 75095 26795 60320 46168 06968 96034 28066 53471
90550 70291 86047 01765 48475 64749 95315 96967 88627 85324
92848 35959 30343 78365 33807 86603 48265 68735 75681 77243
63581 34706 46522 06610 37299 93106 64443 10071 45265 93170
00580 72081 00000

11100 09777 98342 25073 00959 88100 68389 17053 03232 07243
11950 79071 59311 42083 80927 10650 14599 25337 30386 19493
44613 94525 22615 65473 65775 92093 46467 51027 56163 12884
73499 95636 96657 53671 24376 61580 68454 44428 43959 23142
67849 66022 08527 96462 24249 84018 13566 72222 32344 53294
15556 18349 34379 73128 26206 44923 13454 97477 82564 48488
83805 30114 41445 77937 88990 59305 71611 89168 43922 11745
42146 80697 81691 30399 30455 27422 91107 05971 98335 54705
55902 16668 09546 19991 31532 55950 87321 94118 20508 52960
35266 59536 32211 15318 70061 67592 38108 48958 73093 00000

Thanks Ary

FSK POL 9179kHz1610z 23/02[0877 (R5) 00000 (R10)]1611z QSA4 QRM2 QSB1 JkC TUE
Associated S11a = 831/00
FSK POL 9179kHz1615z 23/02[0877 (R5) 00000 (R10)]1616z QSA4 QRM2 QSB1 JkC TUE

HYBRID MODES

HM01

HM01 began the New Year on all the expected times and frequencies. As at the end of 2015 the callups remained the same and did not increment until 2100z on 7/1 when only callup 4 changed to a new number. All callups began incrementing upwards the following day. Presumably this was the end of the Cubans' Christmas holiday. Things continued as expected until 15/1 when the callups reverted to those from the 8th with the exception of callup 4 which was new. The callups then incremented as expected until 27/1 when callup 1's last digit reached 9 at which point all callups again returned to those from the 8th except once more for callup 4 which was a brand new number.

On 30/1 all last digits incremented -1 before continuing with +1 increments the following day.

On 23/1 8/2 and 12/2 the callups at 1600z began with the previous days endings before stopping and restarting with the correct callups.

On 7/1, 19/2 and probably 19/1 a single new callup appeared in the 2100z time slot. These callups always seem to end with a 0 and do not remain with the last digit as 1 for two days as the other callups do. We noted the following entry from the March/April 2015 newsletter "On 19/3 at 1600z callup 1 again changed to one ending in 0 (85760). As had been noted in the last newsletter a similar thing has happened on the 19th of the odd numbered months on two previous occasions. If the pattern holds true expect a callup ending in 0 on May 19th."

The original prediction did not prove to be true but it does seem that there is a special significance to the 19th.

On 2/1 and 22/2 the 1600z transmissions started with a Spanish language broadcast rather than HM01

As usual a few files not ending in .TXT were transmitted including 50470671.F1C 50415132.F1C. Both of these files ended in F1C and as expected the first two digits of the file names were 50.

**Logs**

HM01 11435kHz 1600z 1/1 [36551 86614 17851 07036 83212 86704] Same callups as yesterday. FRI  
 HM01 11435kHz 1600z 2/1 [36551 86614 17851 07036 83212 86704] Same callups as yesterday. SAT  
 HM01 11435kHz 1600z 3/1 [36551 86614 17851 07036 83212 86704] Same callups as yesterday. SUN  
 HM01 11435kHz 1600z 4/1 [36551 86614 17851 07036 83212 86704] Same callups as yesterday. MON  
 HM01 11435kHz 1600z 5/1 [36551 86614 17851 07036 83212 86704] Same callups as yesterday. TUE  
 HM01 11435kHz 1600z 6/1 [36551 86614 17851 07036 83212 86704] Same callups as yesterday. WED  
 HM01 11435kHz 1600z 7/1 [36551 86614 17851 07036 83212 86704] THU  
 HM01 16180kHz 2100z 7/1 [36551 86614 17851 50640 83212 86704] Note 4th callup has changed, all the rest remain the same. THU \*  
 HM01 11435kHz 1600z 8/1 [36551 86615 17851 50641 83213 86705] New callup that appeared yesterday incremented +1, 50641 = 37555064.TXT. FRI  
 HM01 11435kHz 1600z 9/1 [36552 86616 17852 50642 83214 86706] SAT  
 HM01 11435kHz 1600z 10/1 [36553 86617 17853 50643 83215 86707] SUN  
 HM01 11435kHz 1600z 11/1 [36554 86618 17854 50644 83216 06711] New callup position 6, 06711 = 50470671.FIC. MON  
 HM01 11435kHz 1600z 12/1 [36555 86619 17855 50645 83217 06711] TUE  
 HM01 11435kHz 1600z 13/1 [36556 40001 17856 50646 83218 06712] New callup position 2, 40001 = 67164000.TXT. WED  
 HM01 11435kHz 1600z 14/1 [36557 40001 17857 50647 01531 06713] New callup position 5, 01531 = 56100153.TXT. THU  
 HM01 11435kHz 1600z 15/1 [36551 86615 17851 73041 83213 86705] Reverted to callups from 8/1 except the special callup in position 4 has been replaced with 73041 presumably that should have been the new callup in that slot. 73041 = 54417304.TXT. FRI  
 HM01 11435kHz 1600z 16/1 [36552 86616 17852 73042 83214 86706] SAT  
 HM01 11435kHz 1600z 17/1 [36553 86617 17853 73043 83215 86707] SUN  
 HM01 11435kHz 1600z 18/1 [36553 86617 17853 73043 83215 86707] Same callups as yesterday. MON  
 HM01 11435kHz 1600z 19/1 [36553 86617 17853 73043 83215 86707] Same callups as yesterday. TUE  
 HM01 11435kHz 1600z 20/1 [36555 86619 17855 73045 83217 04111] New callup position 6, 04111 = 68820411.TXT. WED  
 HM01 11435kHz 1600z 21/1 [36556 23211 17856 73046 83218 04112] New callup position 2 23211 = 06372321.TXT. Callup 6 unexpectedly incremented to 2 indicating it may have been present on 19/1 as 04110. THU  
 HM01 11435kHz 1600z 22/1 [36557 23211 17857 73047 03241 04113] New callup position 5, 02431 = 45400243.TXT. FRI  
 HM01 11435kHz 1600z 23/1 [36558 23212 18481 50071 02431 04114] Started with yesterday's callups before switching to the correct ones. New callups positions 3 and 4 18481 = 50071. SAT  
 HM01 11435kHz 1600z 24/1 [36559 23213 18481 50071 02432 04115] SUN  
 HM01 11435kHz 1600z 25/1 [36559 23213 18481 50071 02432 04115] Same callups as yesterday. MON  
 HM01 5855kHz 0500z 27/1 [36551 86615 17851 54701 83213 86705] Callups have reverted to those used on 8/1 except callup 4 has changed to 54701. 54701 = 43065470.TXT. WED  
 HM01 11435kHz 1600z 27/1 [36552 86616 17852 54702 83214 86706] WED  
 HM01 11435kHz 1600z 28/1 [36552 86616 17852 54702 83214 86706] Same callups as yesterday. THU  
 HM01 11435kHz 1600z 29/1 [36553 86617 17853 54703 83215 86707] FRI  
 HM01 11435kHz 1600z 30/1 [36552 86616 17852 54702 83214 86706] Last digits of callups have incremented -1 since yesterday. SAT  
 HM01 11435kHz 1600z 30/1 [36552 86616 17852 54702 83214 86706] SUN  
 HM01 11435kHz 1600z 1/2 [36552 86616 17852 54702 83214 86706] Started with a Spanish radio station before switching to the callups. MON  
 HM01 11435kHz 1600z 2/2 [36553 86617 17853 54703 83215 86707] TUE  
 HM01 11435kHz 1600z 3/2 [36554 86618 17854 54704 83216 38021] New callup position 6, 38021 = 56133802.TXT. WED  
 HM01 11435kHz 1600z 4/2 [36555 86619 17855 54705 83217 38021] THU  
 HM01 11435kHz 1600z 5/2 [36556 65201 17856 54706 83218 38022] New callup position 2, 65201 = 20006520.TXT. FRI  
 HM01 11435kHz 1600z 6/2 [36557 65201 17857 54707 84001 38023] New callup position 5, 84001 = 24548400.TXT. SAT  
 HM01 11435kHz 1600z 7/2 [36558 65202 78431 54708 84001 38024] New callup position 3, 78431 = 58067843.TXT. SUN  
 HM01 11435kHz 1600z 8/2 [36559 65203 78431 50871 84002 38025] New callup position 4, 50871 = 35325807.TXT. Started with yesterday's callups before switching. MON  
 HM01 11435kHz 1600z 9/2 [51531 65204 78432 50871 84003 38026] New callups position 1 51531 = 44635153.TXT. TUE  
 HM01 11435kHz 1600z 10/2 [51531 65205 78433 50872 84004 38027] WED  
 HM01 11435kHz 1600z 11/2 [51532 65206 78434 50873 84005 38661] New callup position 6, 38661 = THU  
 HM01 11435kHz 1600z 12/2 [51533 65207 78435 50874 84006 38661] Started with yesterday's callups before switching to the correct ones. FRI  
 HM01 11435kHz 1600z 13/2 [51534 71031 78436 50875 84007 38662] New callup position 2, 71031 = 03387103.TXT. SAT  
 HM01 11435kHz 1600z 14/2 [51535 71031 78437 50876 84008 38663] SUN  
 HM01 11435kHz 1600z 15/2 [51536 71032 78438 50877 84009 38664] Up late with a very loud hum. MON  
 HM01 11435kHz 1600z 16/2 [51537 71033 78439 50878 55381 38665] New callup position 5, 55831 = 17525538.TXT. TUE  
 HM01 11435kHz 1600z 17/2 [51538 71034 68351 50879 55381 38666] New callup position 3, 68351 = 28886835.TXT. WED  
 HM01 11435kHz 1600z 18/2 [51539 71035 68351 84771 55382 38667] New callup position 4, 84771 = 60478477.TXT. THU  
 HM01 11435kHz 1600z 19/2 [75661 71036 68352 84771 55383 38668] New callup position 1, 75661 = 53647566.TXT. FRI  
 HM01 11435kHz 2100z 19/2 [75661 71036 68352 84771 55383 39890] New callup in position 6 since 1600z, 39890 = 06483989.TXT. FRI  
 HM01 11435kHz 1600z 20/2 [75661 71037 68353 84772 55384 39891] New position 6 callup incremented +1 since yesterday's appearance. SAT  
 HM01 11435kHz 1600z 21/2 [75662 51321 68354 84773 55385 39892] New callup position 2, 51321 = 50415132.FIC. SUN  
 HM01 11435kHz 1600z 22/2 [75663 51321 68355 84774 55386 39893] MON  
 HM01 11435kHz 1600z 22/2 [75664 51322 68356 84775 55387 39894] Started with a Spanish speaking broadcast station. TUE  
 HM01 11435kHz 1600z 27/2 [75668 51326 40531 84779 54423 39898] New callups positions 3 and 5, 40531 = 14344053.TXT, 54423 = 53385442.TXT. SAT  
 HM01 11435kHz 1600z 28/2 [75669 51327 40532 36261 54424 34411] New callups positions 4 and 6, 36261 = 87543626.TXT, 34411 = 70023441.TXT. SUN  
 HM01 11435kHz 1600z 29/2 [15721 51328 40533 36261 54425 34411] New callup position 1, 15721 = 63721572.TXT. MON

**Other's logs**

**January 2016**

|               |  |       |     |
|---------------|--|-------|-----|
| 10715kHz2200z | 01/01 (36551 86614 17851 07036 83212 86704) QSA2 | DanAR | FRI |
| 2200z         | 06/01 (36551 86614 17851 07036 83212 86704) QSA1 | DanAR | WED |
| 2200z         | 10/01 (36553 86617 17853 50643 83215 86707) QSA3 | DanAR | SUN |
| 2200z         | 11/01 (36554 86618 17854 50644 83216 06711) QSA2 | DanAR | MON |
| 2200z         | 13/01 (36556 40001 17856 50646 83218 06712) QSA2 | DanAR | WED |
| 2200z         | 15/01 (36551 86615 17851 73041 83213 86705) QSA2 | DanAR | FRI |
| 2200z         | 17/01 (36553 86617 17853 73043 83215 86707) QSA3 | DanAR | SUN |
| 2215z         | 18/01 (36553 86617 17853 73043 83215 86707) QSA2 | DanAR | MON |
| 2200z         | 20/01 (36555 86619 17855 73045 83217 04111) QSA2 | DanAR | WED |
| 2200z         | 22/01 (36557 23211 17857 73047 02431 04113) QSA2 | DanAR | FRI |
| 2200z         | 25/01 (36551 86614 17851 54700 83212 86704) QSA2 | DanAR | MON |

-Back to old msg , except 4th group-

|                 |  |       |     |
|-----------------|--|-------|-----|
| 2200z           | 27/01 (36552 86616 17852 54702 83214 86706) QSA2 | DanAR | WED |
| 2200z           | 29/01 (36553 86617 17853 54703 83215 86707) QSA2 | DanAR | FRI |
| 16180kHz2100z   | 02/01 (36551 86614 17851 07036 83212 86704) QSA2 | DanAR | SAT |
| 17480 khz 2200z | 05/01 (36551 86614 17851 07036 83212 86704) QSA3 | DanAR | TUE |
| 2200z           | 28/01 (36552 86616 17852 54702 83214 86706) QSA3 | DanAR | THU |
| 2200z           | 30/01 (????? ????? 17853 54702 8321? ?????) QSA2 | DanAR | SAT |

## February 2016

|               |   |       |     |
|---------------|---|-------|-----|
| 10715kHz2200z | 01/02(36552 86616 17852 54702 83214 86706) QSA2 | DanAR | MON |
| 2200z         | 03/02(36554 86618 17854 54704 83216 38021) QSA2 | DanAR | WED |
| 2200z         | 08/02(36559 65203 78431 50871 84002 38026) QSA1 | DanAR | MON |
| 2200z         | 10/02(51531 65205 78433 50872 84004 38027) QSA2 | DanAR | WED |
| 2200z         | 12/02(51533 65207 78435 50874 84006 38661) QSA3 | DanAR | FRI |
| 22:00z        | 14/02(51535 71031 78437 50876 84008 38663) QSA2 | DanAR | SUN |
| 22:00z        | 15/02(51536 71032 78438 50877 84009 38664) QSA2 | DanAR | MON |
| 22:00z        | 19/02(75661 71036 68352 84771 55383 39890) QSA2 | DanAR | FRI |
| 22:00z        | 28/02(34411 75669 51327 40532 36261 54424) QSA2 | DanAR | SUN |
| 22:00z        | 29/02(34411 15721 51328 40533 36261 54425) QSA2 | DanAR | MON |
| 16180kHz2100z | 23/02(75664 51322 68356 84775 55387 39894) QSA2 | DanAR | TUE |
| 17480kHz2200z | 02/02(36553 86617 17853 54703 83215 86707) QSA3 | DanAR | TUE |
| 2200z         | 04/02(36555 86619 17855 54705 83217 38021) QSA2 | DanAR | THU |
| 2200z         | 09/02(51531 65204 78432 50871 84003 38026) QSA2 | DanAR | TUE |
| 2200z         | 11/02(51532 65206 78434 50873 84005 38661) QSA3 | DanAR | THU |
| 2200z         | 13/02(51534 71031 78436 50875 84007 38662) QSA3 | DanAR | SAT |
| 2200z         | 16/02(51537 71033 78439 50878 55381 38665) QSA3 | DanAR | TUE |
| 2200z         | 18/02(51539 71035 68351 84771 55382 38667) QSA2 | DanAR | THU |

Although primarily a US Monitor's station PoSW in England writes, 'The HM01 Mixed Mode station from Cuba still less than impressive; on those days when frequencies in the 9 MHz band are used in the UK morning signal strengths are often fairly good but the depth of modulation is often very low which makes copy a pain, a bit like E07. If the audio level was similar to that of a broadcast station, copying would be no problem. When 11,635 and 11,462 MHz are used, signals are usually very weak and unreadable.'

## X06 Mazielka [Ic]

All the best to you for 2016. Here are the last logs of December 2015 and then the ones of January/February this year. First a small correction to EN91 : On October 28th 2015 (Wed), the end time of the transmission on 18660 kHz was wrong. Here the right log :  
20151028 Wed 1133-1134 18660 621543 Peter, Antonio Shortie, G248

| Date     | Day | UTC       | Freq  | Scale  | Monitor           | Comments                            |
|----------|-----|-----------|-------|--------|-------------------|-------------------------------------|
| 20151224 | Thu | 0754-0757 | 12126 | 521634 | Antonio/IT        | G61                                 |
| 20151224 | Thu | 0815-0817 | 16153 | 153624 | Antonio           | G249                                |
| 20151224 | Thu | 1510-1513 | 10214 | 263145 | Danix/PL          | G256                                |
| 20151227 | Sun | 1250      | 14538 | 1--6-- | Schorschi         | Strong X06b before XPA2             |
| 20151228 | Mon | 0735-0742 | 13517 | 463125 | Danix             | G222                                |
| 20151228 | Mon | 1105-1109 | 13423 | 412635 | Danix, Peter      | New (or error) scale, R             |
| 20151228 | Mon | 1255-1304 | 15656 | 364152 | Peter             | Poor to strong, with breaks, G73    |
| 20151230 | Wed | 0930-0935 | 12177 | 364152 | Kopf              | Fair, R                             |
| 20160102 | Sat | 0838-0839 | 11123 | 1--6-- | Ary/NL            | X06b w/ QRM from E07a test tones(1) |
| 20160108 | Fri | 1252&1255 | 16167 | 1--6-- | Schorschi         | Strong X06b before XPA2             |
| 20160111 | Mon | 0946-0947 | 13423 | 421635 | André/FR          | G74                                 |
| 20160113 | Wed | 0754-0758 | 14655 | 164253 | Peter             | Fair, G395                          |
| 20160113 | Wed | 0810-0811 | 20950 | 435621 | Peter             | Good, G98                           |
| 20160113 | Wed | 0838-0839 | 14379 | 521634 | Ary               | Just before XPA (mistake?), R       |
| 20160113 | Wed | 0840-0842 | 13369 | 412356 | Peter             | Poor, G97                           |
| 20160113 | Wed | 0851-0859 | 16116 | 134265 | Peter             | Poor, G90                           |
| 20160113 | Wed | 1055-1059 | 15878 | 621543 | Peter             | Alert 7 (G102) 1 Poor to fair       |
| 20160113 | Wed | 1101-1104 | 18660 | 621543 | Peter             | 7.2 Good                            |
| 20160113 | Wed | 1122-1137 | 15878 | 621543 | Peter             | 7.3 Good                            |
| 20160114 | Thu | 0814-0816 | 16153 | 153624 | Antonio           | G249                                |
| 20160114 | Thu | 1517-1519 | 10214 | 263145 | Peter             | G111(2)                             |
| 20160115 | Fri | 0925-0927 | 18197 | 645321 | Peter             | Good, G194                          |
| 20160115 | Fri | 1049-1123 | 14501 | 361245 | Peter,<br>Antonio | G190(3)                             |
| 20160117 | Sun | 1241      | 16138 | 1--6-- | Schorschi         | Strong X06b before XPA2             |
| 20160117 | Sun | 1307-1310 | 13481 | 452163 | Danix             | Alert 2 (G403, new group) 1         |
| 20160117 | Sun | 1313-1317 | 10181 | 452163 | Danix             | 2.2                                 |
| 20160117 | Sun | 1739      | 8194  | 1--6-- | Schorschi         | X06b with QSA2 before E07           |
| 20160118 | Mon | 0745-0753 | 18750 | 641523 | Peter             | Good, G337                          |
| 20160119 | Tue | 0901-0904 | 12157 | 165423 | Peter             | Good, G151                          |
| 20160119 | Tue | 0917-0921 | 18206 | 246531 | Peter             | Good, G153                          |
| 20160119 | Tue | 0948-0957 | 15687 | 154263 | Peter             | Alert 2 (G184) 1 Good               |
| 20160119 | Tue | 1001-1002 | 14358 | 154263 | Peter             | 2.2 Weak                            |
| 20160120 | Wed | 0745      | 15978 | 1--6-- | Ary               | X06b sent twice before XPA2         |

| Date     | Day | UTC       | Freq  | Scale  | Monitor  | Comments                        |
|----------|-----|-----------|-------|--------|--|---------------------------------|
| 20160120 | Wed | 0925-0930 | 14631 | 362154 | Peter,<br>Antonio                                  | Fair in UK, G170                |
| 20160120 | Wed | 0943-0946 | 17430 | 214356 | Peter,<br>Antonio                                  | Weak in UK, G394                |
| 20160120 | Wed | 1105-1111 | 16115 | 215346 | Peter  | Good, G167                      |
| 20160121 | Thu | 1235-1242 | 18575 | 352416 | Peter  | Weak, G179                      |
| 20160124 | Sun | 1138      | 14865 | 261453 | Peter  | Shortie on new freq, good, G285 |
| 20160125 | Mon | 0934-0938 | 13517 | 463125 | Antonio  | G222                            |
| 20160127 | Wed | 1159-1205 | 14944 | 621543 | Schorschi  | S9, G248                        |
| 20160128 | Thu | 0759-0809 | 14419 | 521634 | Peter  | Fair but getting weaker, G261   |
| 20160128 | Thu | 0803-0808 | 16153 | 153624 | Peter  | Fair but getting weaker, G249   |
| 20160128 | Thu | 1503-1505 | 10214 | 263145 | Peter  | Good and clear, G256            |
| 20160128 | Thu | 1616-1621 | 9106  | 564213 | Peter  | Alert 2 (G263) 1 Fair           |
| 20160128 | Thu | 1621-1623 | 10535 | 564213 | Peter  | 2.2 Weak                        |
| 20160129 | Fri | 1105-1114 | 14863 | 615243 | Peter  | Fair, G305                      |
| 20160129 | Fri | 1410-1417 | 6879  | 124536 | Schorschi  | New scale, S9, R                |
| 20160131 | Sun | 0800-0804 | 14947 | 351264 | Peter  | S1, G404 (new group)            |
| 20160201 | Mon | 0833-0844 | 18750 | 641523 | Peter  | Alert 2 (G5) 1 Poor             |
| 20160201 | Mon | 0836-0837 | 12152 | 432516 | Antonio,<br>Peter                                  | G6                              |
| 20160201 | Mon | 0844-0850 | 13506 | 641523 | Peter  | 2.2 S1(4)                       |
| 20160201 | Mon | 1709      | 11438 | 532614 | RNGB   | G4 (end time missing)           |
| 20160201 | Mon | 0843-0846 | 12149 | 154263 | Peter  | Poor, G7                        |
| 20160203 | Wed | 0746-1059 | 8038  | 124536 | Manolis/GR,<br>Antonio,<br>Kopf, Ary,<br>Schorschi | R                               |
| 20160203 | Wed | 0930-0937 | 13465 | 362154 | Peter  | Fair, G32                       |
| 20160203 | Wed | 1004      | 17430 | 214356 | Peter  | Fair, G24                       |
| 20160203 | Wed | 1107-1109 | 16116 | 215346 | Kopf   | I. p., R                        |
| 20160206 | Sat | 1329-1339 | 10335 | 154632 | Danix  | R                               |
| 20160208 | Mon | 0824      | 17475 | 145632 | André  | Shortie (only 40 secs), G141    |
| 20160208 | Mon | 0934-0941 | 13517 | 463125 | Peter  | Alert 3 (heavy hum, G77) 1      |
| 20160208 | Mon | 0938      | 9923  | 463125 | Peter  | 3.2                             |
| 20160208 | Mon | 0943-0949 | 16117 | 463125 | Peter  | 3.3                             |
| 20160210 | Wed | 0829-0833 | 11483 | 412356 | Peter  | Good, G97                       |
| 20160210 | Wed | 0912-0919 | 13419 | 465132 | Peter  | Good, G100                      |
| 20160211 | Thu | 0844-0845 | 16153 | 153624 | Danix  | G249                            |
| 20160211 | Thu | 0941-0945 | 13506 | 164532 | Peter  | Strong, G106                    |
| 20160216 | Tue | 0804-0856 | 12157 | 165423 | Peter  | Good and long, G151             |
| 20160216 | Tue | 0917-0923 | 18206 | 246531 | Peter,Danix  | Good in UK, G153                |
| 20160216 | Tue | 0941-0949 | 15687 | 154263 | Peter,Danix  | Good in UK, G148                |
| 20160217 | Wed | 0924-0927 | 13465 | 362154 | Schorschi,<br>Danix                                | S9 in DE, G170                  |
| 20160217 | Wed | 0941-0945 | 17430 | 214356 | Antonio  | G394                            |
| 20160219 | Fri | 0932-0936 | 20837 | 645321 | André  | G194                            |
| 20160219 | Fri | 1016-1023 | 12215 | 361245 | Danix  | G190                            |
| 20160221 | Sun | 1717&1718 | 10219 | 1--6-- | Schorschi  | X06b before E07 with S9         |
| 20160225 | Thu | 1628-1630 | 12158 | 564213 | Danix  | G263                            |
| 20160226 | Fri | 0937-0941 | 12177 | 356412 | Danix  | G271                            |
| 20160226 | Fri | 1315      | 18667 | 1--6-- | Schorschi  | X06b before XPA2, S9            |

- 1) Again at 0841
- 2) Fair distorted with background carrier
- 3) Started "361254" (changed 1059)
- 4) First use of this frequency for this group

PoSW writes: X06 6-Tone Repeating:- I don't hear many of these and the ones I do find usually vanish within a minute or two of them being tuned in, almost as if they know I am onto them. One exception to this was logged in early February because it ran for several hours:-

3-Feb-16, Wednesday:- 0740 UTC, 8,038 kHz, close to a WEFAX station on the HF side, S7 to S8. Expected it to go off suddenly as is usually the case with X06, but was still on when checked again at 0811, 0850, 0900, 0925, 1000, 1015 and 1055 UTC. The WEFAX which had been a weak signal earlier was now very strong. The X06 had gone when I next checked the frequency at 1125 UTC.

With thanks to all our contributors: Ary, Edd, BR, DanAr, DoK, E, HJH, JkC, Jochen, Malc, MaleAnon, PoSW, PLdn, RNGB, Schorshi, T!, tING, Apologies to anyone missed.

## **THE INTERESTING BITS!**

Firstly an additional article sent in by reader Karl Ulm:

### **A NAME BEHIND THE NUMBERS**

**By KARL ULM**

In May 2015 a television news programme was broadcast in the United States revealing information about a Russian "illegal" agent called "Jack Barsky" who had operated in America during the Cold War. He had been detected by the FBI and co-operated with them for a period of time.

Of interest is the fact that he was controlled via a Morse code numbers station. His case reveals some of the human detail behind radio transmissions which can appear monotonous and technical.

The illegal agent was East German and had been born Albrecht Dittrich. In 1970 he was a chemistry student in Jena, East Germany and had been hoping to go into teaching. A knock on his door one day from a mystery man who sought to discuss his future career prospects would change his life forever. The visitor was from the Stasi and he hoped to recruit this star student into the world of espionage because he was young, keen and bright. He was recruited and given radio and tradecraft training in East Berlin before being passed to the KGB for more advanced training in Moscow including intensive English language and counter-surveillance tuition. The Russians had selected him to work as an elite illegal agent to live as a citizen of the United States. He was sent to America by the KGB in 1978 after two years' training using the identity of Jack Barsky, a child who had died in America in 1955. A KGB officer had found the child's grave and obtained his birth certificate in preparation for an identity theft for an illegal agent infiltrated into the US who would be of approximately the same age.

Barsky's role was to integrate into American society and become a businessman, cultivate people and support the KGB in whatever tasks they assigned to him. His main role was to get close to US National Security Advisor Zbigniew Brzezinski but with the "legend" (background story) he was assigned, this would be rather ambitious. Barsky studied computing at college in New York, supported by a part-time courier job after entering the US on a false Canadian passport. The KGB did not seem to understand how US citizenship was obtained and it would be many years before he became a full US citizen. In citizenship interviews he struggled to answer questions on his background and took some time to get a social security number because he had no work background in America.

To communicate with Moscow Barsky would receive a Morse code message on his short-wave radio at 2115 each Thursday. The messages would take an hour to write down and three hours to decode. Every two years he would travel to East Germany and Moscow to meet his handlers using roundabout routes and different passports. He had a wife and child in East Germany from his university days and an American wife and two children in the US. Neither family knew about the other. None knew he was a spy. His German wife thought he worked at Baikonur Space Centre in Kazakhstan and could only return to the GDR occasionally. Barsky existed as two different people with two different lives. After 10 years in 1988, the KGB sent him a "radiogram" as they called it to inform him that his cover was blown and he was likely to be arrested by the FBI. He was directed to Staten Island to a dead-drop where an oil can containing a passport and money would be waiting. He would have to ditch his unsuspecting American wife and child and disappear. He said that he was unable to locate the can and then he refused to leave for the East. He apparently liked American life and capitalism too much to abandon it for life in the utopia of East German socialism. He told the KGB that he was infected with HIV and could only be treated in the US so could not travel. It was clear that he was not going to come "home" so the KGB told his East German wife that he was dead. He hoped to just stay where he was and Moscow would forget about him. Why the KGB thought that he was about to be detected is unknown, perhaps FBI traitor Robert Hanssen tipped them off? In 1992 KGB archivist/defector Mitrokhin revealed his name to the West in the papers he passed to western intelligence. A search for Barsky in the US led the FBI to him and he was kept under surveillance. He was seen meeting a Cuban man who turned out to be a friend and not involved in espionage. A hide was constructed by the FBI on a hill overlooking Barsky's house and the FBI even moved agents into the house beside his residence. Barsky's home was also bugged and during a row with his wife, he was heard to admit to being a spy which undoubtedly helped to defuse the domestic situation!

In 1997, the FBI arranged for Barsky's car to be stopped by the police on a bridge and then an FBI agent approached him. He was not arrested but was offered the chance to co-operate and reveal his story. He was not an active spy by that time so was more use to the FBI out of jail rather than serving a lengthy sentence. In a motel he revealed all and served as a useful source on espionage techniques and communications, being interviewed by the NSA. He thought that his radio transmissions originated in Cuba apparently. Barsky's employer, a New York energy company and before that an IT company, never knew that he had been a spy. Although he had a slight foreign accent, he told everyone that he was from New Jersey and his mother was German and they spoke the language at home.

Barsky was producing political assessments which he sent back to Moscow examining what Americans thought about particular issues. He was also able to copy computer programmes from IT companies to help Soviet industry. Part of his job involved clearing dead-drops as well as providing profiles of possible agents he encountered. Morse code messages he received instructed him to locate a renegade KGB agent in Canada and to evaluate US opinion on the Red Army's invasion of Afghanistan. Alarming in 1988 after having refused to go back East, he was approached on a railway station in New York by a man dressed in black who spoke with a Russian accent whispering to him that if he did not return to the East he would be killed. He still did not return. Barsky eventually went public and revealed who he was, likely also to get money to fund his divorce. His employer fired him, his American wife divorced him and his German wife, who thought he was dead, wanted nothing further to do with him. It was a stunning revelation to his American children. What on earth did he achieve apart from wrecking and wasting his own life? It appeared to be a lot of work with little to show for it and there must have been many more people left like this after the Cold War ended. Barsky has now remarried, had another child and has discovered God apparently. In 2014 he was granted US citizenship, 34 years after entering America.

How many more sad and bizarre tales lie behind the strings of numbers pouring out on short-wave into the ether every day? We will likely never know but the ENIGMA will continue.....!

*Thanks for the excellent article*

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**"WE SHARE THE SAME PURPOSE, NOT THE SAME BACKGROUND"**

From E

PoSW's Items of Interest in the Media:-

Problems facing short-wave radio enthusiasts in the mainstream media:- It is not often that the concerns of those engaged in the Radio Hobby make it into the press, but the *Daily Telegraph* of 21-January carried on its letters page an item headlined, "Radio disruption":-  
 "Sir – As many short-wave listeners will have noted, the level of background noise has risen in recent years, obliterating many weaker stations. Much of this noise is caused by emissions from computer networks of the type that send their signal via the mains supply.

According to EU regulations, this type of equipment must be tested by its makers to ensure that it does not cause undue interference to any other equipment. No doubt when checked in laboratory conditions, with the mains supply filtered and buried deep in walls, the equipment will comply - but in the real world, house wiring acts as an aerial. These emissions are causing colossal interference."

And that was from Harry Leeming, of Heysham, Lancashire; and, living as we do in an age of dumbed – down know - nothingness, I would guess that no more than one in ten thousand *Telegraph* readers had the faintest idea of what Mr Leeming was going on about. Russian spies finding plenty

to do in the UK, according to an article in *The Times* newspaper of 25-January. "Russia's spying on Britain is back to Cold War level", is the headline over a piece written by Marc Bennetts which says, "The number of Russian spies operating in Britain is comparable or higher than during the Cold War, according to Russia's leading expert on President Putin's security services.

Andrei Soldatov, a Moscow based journalist and author, said that there were likely to be at least 30 agents in the United Kingdom. Some operate under diplomatic cover while others - so-called 'illegal' agents - use false identities to pose as British citizens, Mr Soldatov said.

A third group of agents are Russian nationals, often businessmen, living openly in Britain. 'These people are usually recruited and trained by the Russian security services to gather intelligence,' he said.

Besides London, towns and cities close to Royal Navy bases are targets, he said. These include Clyde, home to the UK's nuclear deterrent, as well as a new generation of hunter-killer submarines, and Devonport in Plymouth, the largest naval base in western Europe. There are three Russian intelligence services with active agents in Britain: the GRU military intelligence agency, the SVR foreign intelligence service, and the FSB, the main successor to the KGB.

Mr Soldatov said that the agents were involved in activities including gathering secret information on Britain's military campaign in Syria, on military hardware, science and technology, and on Westminster politics. Russians opposed to Mr Putin's long rule are also a target. 'The FSB is mostly concerned with gathering information about people who might present some kind of threat to the authorities in Russia, such as Russian dissidents living in the UK,' Mr Soldatov said.

Mr Soldatov, who in 2014 was named 'perhaps the most prominent critic of Russia's surveillance apparatus' by the CIA whistle-blower Edward Snowden, has been questioned by FSB investigators a number of times.

His comments come after an inquiry found that President Putin, a former FSB chief and KGB officer, probably approved the murder of the dissident Alexander Litvinenko in London.

London has become something of a home-from-home for opposition figures forced to flee Russia to escape jail or worse. On Thursday, Andy Burnham, the shadow home secretary, said that the government should review the security of other Russians.

Vladimir Ashurkov, a banker turned opposition activist, left Russia in 2014 shortly before prosecutors charged him with fraud. 'I definitely feel more secure on the streets of London than in Moscow, where I would be arrested on politically motivated charges,' he said. 'I hope that the British security services have taken stricter measures.' Mr Ashurkov, who denies the fraud charges, was granted asylum last year."

The perils of running a radio station - in Afghanistan; a short item in *The Times* of 3-February has the headline, "NATO attacks Isis radio station in Afghanistan", and says, Kabul - Coalition aircraft attacked a new Islamic State radio station in the eastern Afghan province of Nangarhar as part of NATO's campaign to stop the group taking root in the country. A spokesman for the provincial governor said that the raid on Monday night involved Afghan ground forces and destroyed an Islamic State broadcaster in Achin, killing 29 militants, including eight working on the radio and an on-line operation. It remains to be seen whether the attack has silenced the Isis transmission, which have recently increased from an hour a day to 90 minutes and are now broadcast in Dari as well as the Pashto language."

Alan Gross in the news. Alan Gross, who he? Well, I thought I had heard this name somewhere before when I saw a story about him in the *I* newspaper of 18-December. Then remembered there was a passing reference to Mr Gross in an Enigma Newsletter - En 84, towards the bottom of page 3, "American Alan Gross, a USAID operative" mentioned in connection with a communications system called "Broadband Global Area Network". I guess this is the same geezer. The headline in the *I* is, "Jailed by Cuba, but no enemy of the state" - "Alan Gross tells Fenit Nirappil of his 'surreal' life back in the US", which continues:- "As a prisoner of the Cuban government for five years, Alan Gross walked 10,000 steps a day to pass the time and preserve his strength.

Now, a year after his release his daily strolls take him through the 'capital of the free world'. The former subcontractor for the United States Agency for International development ambles miles from his home in north-west Washington DC.

Mr Gross, a development worker, was arrested in 2009 on suspicion of trying to destabilise the Communist regime. He was working in Cuba, helping the local Jewish community access the internet.

A year ago today, President Obama announced that Mr Gross had been freed in a deal involving an exchange of prisoners. Mr Obama also declared plans to re-establish ties with Cuba after more than 50 years.

'Coming home was just an incredible sense of happiness,' Mr Gross says. 'From the day I was arrested, my life became a bit surreal, and it still is today.' When he returned from Cuba, there was no home to return to. Mr Gross's wife, Judy, had sold the property in Potomac, Maryland, to pay off legal and other bills.

Mr Gross went from low-profile NGO worker to speaking with the President, sitting with the First Lady, Michelle Obama, during the State of the Union Address, dining with former US Attorney General Eric Holder and visiting Pope Francis. He routinely fields phone calls from people looking to invest in Cuba.

During five years in a Cuban military hospital, Mr Gross shed more than 100lb and lost five teeth.

Maryland Democratic Congressman Chris Van Hollen, who flew with other politicians and officials to retrieve Mr Gross, said his former constituent is now a valuable advocate for normalising relations with Cuba.

'He's a great person to take on that cause because he has been the victim of this particular Cuban government,' Mr Van Hollen said.

'He knows the problems with this particular regime, but has lent his voice to those who recognise that the best way to improve the condition of the Cuban people is to increase communications and interaction between our two peoples.'

Mr Gross says he has met members of the Congress to describe his experience. Mr Gross says, 'I'm angry at what happened. But my sincere interest is to focus more on the next five years than the past five, and I think that I'll get over my anger. The clear majority of Cuban Americans are in favour of normalisation, and I think that's a demonstration that they are getting over their anger. They might have lost everything in Cuba, I lost everything too.'

Droning on - and from way up there:- "Drones will spy from the stratosphere", says a headline over a short item by Deborah Haynes, Defence Editor, in *The Times* of 3-February

which says, "Britain will buy the world's first high-altitude drone to spy from the stratosphere for months at a time.

The solar-powered Zephyr aircraft will be used by special forces and regular soldiers as part of a £2 billion boost to intelligence gathering capabilities, defence sources said. The Ministry of Defence is to spend £10.6 million on two prototypes to be built in the UK. Test flights are expected next year.

'They will be able to fly higher and for longer to gather constant, reliable information over vast areas,' Michael Fallon, the Defence Secretary said. The aircraft flies at 70,000 ft, twice the height of a commercial airliner, but weighs only 30kg (66lb). The Zephyr, which travels at about 30mph is called a high altitude pseudo-satellite because it is a cross between a drone and a satellite.

It holds the record for the longest flight, 14 days, for an unrefuelled aircraft and could remain airborne for months thanks to its solar batteries. It carries communications equipment that will enable soldiers standing 400 miles apart to talk via radio. Cameras will provide unprecedented continuous coverage of terrain.

The programme has been developed by Airbus Group in Farnborough. Its design is so commercially sensitive that even the blueprint for the two propellers on its front is top secret.”

Point to Ponder:- “A society in which consumption has to be artificially stimulated in order to keep production going is a society founded on trash and waste, and such a society is a house built upon sand”. (Dorothy L Sayers).

### Spectre's News Round

#### Now that Litvinenko's murder 'probably' points to Putin, what's next for British relations with Russia?

[www.telegraph.co.uk](http://www.telegraph.co.uk) 24-01-2016

Blame has been pinned unambiguously on the Russian state for the murder of the ex-KGB officer, but David Cameron seems to be doing little in response

Dealing with rogue states is easiest when they are weak and far away. A nuclear superpower on your doorstep with a penchant for murder is another matter.

That is the dilemma facing David Cameron in the wake of the inquiry into the murder of Alexander Litvinenko, which published its report on Thursday.

Had the 2006 poisoning of Mr Litvinenko, an ex-KGB officer, gone as planned, it would have attracted little notice. Polonium is a rare and normally undetectable poison: it kills with alpha radiation, measurable only with highly specialised equipment.

In the small community of Russian émigré dissidents in London, the message would have been clear: you are allowed to leave the motherland, but if you mount propaganda operations against the Kremlin, you will be killed.

MI6 would have been alarmed, too: Mr Litvinenko was on a modest monthly stipend in return for sharing his expertise into the overlap between high-level corruption and organised crime. From its Vauxhall Cross headquarters, the spy agency was mounting a joint investigation with Spanish intelligence, code-named Operation Vespa, into the Kremlin's involvement in Russian gangsterdom in Spain.

Yet the mysterious death of a secret source would have not become a public scandal. It would not have led to the freezing of ties with the Russian security service, the FSB. And it would not have led to a public inquiry, with a report unambiguously pinning blame on the Russian state for the murder of a British citizen in the heart of London – in a way that exposed countless other people to radioactive contamination.

Only a last-minute hunch, to test Mr Litvinenko's urine for alpha-radiation, gave the authorities an idea of what had really happened.

The initial response in late 2006 was robust. Russian intelligence officers were expelled from London. Contact with the FSB was reduced to the bare minimum – over the Sochi Winter Olympics, for example.

But after that, Britain tried to get back to business as usual. The Blair-era honeymoon was over, but it was still deeply unfashionable to talk of containing, let alone confronting the Kremlin.

It was after the Litvinenko murder that I began writing my book *The New Cold War*. When it was published in 2008, it attracted acclaim from hawkish Russia-watchers, especially in eastern Europe. But the pinstriped consensus in London, Washington, Berlin and other capitals was that my book was alarmist nonsense.

Russia, the conventional wisdom maintained, was a capitalist country, albeit with some flaws. It had a pluralist political system, with elections, courts and institutions. Mr Putin was an unpleasant fellow, but he had brought stability to his country and restored national pride. We could do business with him – both commercial and diplomatic.

Those considerations far outweighed the anger felt about the murder of Mr Litvinenko. Although there was no doubt within our security and intelligence agencies that the Russian state was directly involved in the affair, it was more convenient for politicians to pretend otherwise. Moreover the chorus of Kremlin-lovers in the City, business and elsewhere had their own reasons to downplay the murder.

They helped push the exotic, distracting conspiracy theories swirled around the case. Mr Litvinenko, it was said, was hardly a hero. He hung out with dubious characters – indeed, he was financially dependent on Boris Berezovsky, the late Russian émigré tycoon. He was a marginal figure, a gadfly. If someone swatted him, too bad.

Mr Litvinenko is not the only person to pay with his life. Mr Putin's time in power is peppered with unexplained, convenient deaths – in Russia and abroad. A year ago, my friend Boris Nemtsov, a leader of Russia's beleaguered opposition, was gunned down in one of the most heavily policed parts of Moscow, within a stone's throw of the Kremlin.

Notable mysteries in this country include the British intelligence officer Gareth Williams – the “body in the bag” – who had been investigating Russian state cooperation with international organised crime. He was found dead in the bath of his MI6 safehouse in Pimlico. The investigation into his death has got nowhere, and reeks of a cover-up.

Alexander Perepilichny, who knew the details of a huge money-laundering scam involving corrupt senior Russian officials, was found dead near his Surrey home in 2012. The local police, shamefully, did not believe that his whistleblowing could have a bearing on his murder. It has now turned out that he had traces of a rare poison in his stomach. A full inquiry into that murder could have bring sensational revelations that would echo those surrounding Mr Litvinenko's death.

Despite official indifference and obfuscation, Marina Litvinenko, and her son Anatoly, have maintained an astonishing dignity and resolve. Whatever faults her husband had, his choice of spouse was admirable. Thanks to the admirable Ben Emmerson QC of Matrix Chambers, who offered his services free of charge, she was able to surmount the many legal obstacles which the authorities placed in the way of a full inquiry.

Whatever else may result from Sir Robert Owen's report, it is at a minimum a triumphant vindication for the indomitable Mrs Litvinenko and her band of loyal allies.

"MI5 has said that the number of Russian spies operating in the UK has reached Soviet era levels, between 30 and 40 in all."

Now she is demanding that Britain respond to the report with tough sanctions against Russia. But here she is all too likely to be disappointed. The overwhelming (albeit mistaken) priority in Downing Street and the Foreign Office is to gain Russian support over Syria. Only the Kremlin, the thinking goes in London, Washington and other Western capitals, can help bring the Assad regime in Damascus to the negotiating table.

Russia knows this. It uses the carnage in Syria as a basis for nationalist tub-thumping at home, and for diplomatic mischief abroad. It pretends to be a potential partner in the hope of extracting concessions. In truth, Kremlin ties to the murderous Syrian leadership are a prime cause of the war, not a potential solution.

To be fair, Britain's policy towards Russia has changed substantially in recent years. We have strongly supported Nato's tougher stance towards defending its vulnerable frontline states in Eastern Europe. Britain is going to send 1,000 troops to Poland (not least because Mr Cameron wants Polish support in his negotiations with the European Union). Britain has boosted its efforts, alone and with allies, to catch Russian spies. It has begun – belatedly but commendably – to get to grips with Russia's propaganda offensive in the West.

Theresa May gave a stern-sounding statement in the Commons on Thursday, where she announced an asset freeze against the two men named by the inquiry as perpetrators of the murder: Dmitry Kovtun and Andrei Lugovoi.

But it hardly seems likely that these two men have any assets in the British financial system. They may be scoundrels, but they are not stupid.

Meanwhile, MI5 has said that the number of Russian spies operating in the UK has reached Soviet era levels, between 30 and 40 in all. Though they are presumably working hard to recruit sources, nobody gets prosecuted for cooperating with them.

Far more effective would be to investigate the tide of Russian dirty money which swills through the streets of the City. British banks, law firms, accountants and others have behaved with blatant, shameless greed in their dealings with Russia.

Our most important company, BP, is in bed with Rosneft, an oil company which is a loosely disguised arm of the Russian state. Its riches are based on theft: a fixed auction in which it picked up the most valuable assets of Yukos, once Russia's foremost oil company.

Yukos was doomed when its founder, Mikhail Khodorkovsky, publicly accused Mr Putin of corruption. The oilman went to jail, and his company was bankrupted in a series of financial show trials. Rosneft picked up the pieces for a pittance.

Yet the City of London saw nothing wrong in allowing Rosneft to list its shares in 2006 – only weeks before Mr Litvinenko was murdered. That was the equivalent of letting foreigners sell stolen property on the streets of London. Far from calling the police, our financiers queued up to take a cut.

Such behaviour does not just corrupt our own system. It sends a dreadful message to Russia, too. It makes the Russian leadership believe that our system is not essentially different from theirs. Money rules and might is right. We just disguise it better with a lot of talk about democracy and the rule of law.

Sir Robert Owen, with his formidable intellect and forensic questioning, epitomises the real strength of the British system. He has produced a flawless report: lucid, measured and convincing. Its devastating, irrefutable conclusion of state-sponsored murder is embarrassing to our government. One cannot imagine that happening in Russia.

Judicial integrity may be little consolation, though, as Britain's political leadership wiggles away from actually doing anything in response to an astonishing, brazen crime by a country which believes – apparently rightly – that it can get away with murder.

[www.telegraph.co.uk](http://www.telegraph.co.uk)

#### **More Russian spies in Britain now than during Cold War, security expert claims**

[www.rt.com](http://www.rt.com) 25-01-2016

Potentially more Russian spies are operating in Britain now than during the Cold War, a Russian security expert has said.

Speaking to the Times on Monday, Moscow-based journalist and intelligence expert Andrey Soldatov said there are at least 30 Russian spooks spread across the UK operating under diplomatic cover or a false identity. A third group of spies are Russian nationals, often businessmen, who live openly in the UK, he said.

Soldatov said each of these groups are recruited and trained by Russian security services to collect intelligence. London and towns and cities close to Royal Navy bases are reportedly common targets.

He claims there are currently three Russian intelligence bodies with active operatives in the UK: the GRU military intelligence agency; the SVR foreign intelligence service; and the FSB.

Russian agents are allegedly gathering secret data on the UK's military campaign in Syria, on military technology and science, and on political developments in Westminster.

Soldatov, who was branded perhaps the most "prominent critic of Russia's surveillance apparatus" by NSA whistleblower Edward Snowden in 2014, has been interrogated by FSB investigators on a number of occasions.

"The FSB is mostly concerned with gathering information about people who might present some kind of threat to the authorities in Russia, such as Russian dissidents living in the UK," he said.

Evidence of British and US spy activities in Russia has also captured headlines.

MI6 was reportedly forced to suspend spy activity due to exposure in "hostile states" following Snowden's leaks. In June 2015, the Sunday Times alleged both Moscow and Beijing had cracked top-secret encrypted documents leaked by Snowden and thus learnt of MI6 methods.

The paper cited unnamed officials in Prime Minister David Cameron's office, the Home Office and national security services as its sources.

Snowden, who fled to Russia via Hong Kong in June 2013, is believed to have collected some 1.7 million documents from US government computers. He maintains he leaked them to secure privacy and civil liberties worldwide.

London is perceived by some as a safe haven for Russian opposition figures who have fled their homeland. Soldatov's remarks come after a UK inquiry found that Russian President Vladimir Putin "probably sanctioned" the murder of Russian spy Alexander Litvinenko in London in 2006.

In the wake of the inquiry, Shadow Home Secretary Andy Burnham called upon the government to review the death of a second Russian dissident that occurred on British soil.

Businessman Aleksandr Perepilichny had fled to Britain after uncovering information linked to an investigation into a £148 million (US\$211 million) Russian money-laundering operation.

In the run up to his death, he was working to uncover fraud in Swiss bank accounts, while also being sued by a Moscow consultancy firm. Police had initially excluded the possibility of foul play following his death in 2012, but a preliminary inquest hearing in 2015 revealed that the tycoon may have been poisoned by a rare substance.

Reflecting on the matter, Burnham suggested Perepilichny's inquest be upgraded to a public inquiry. The Russian businessman was one of two men named as the main suspects in the murder of Litvinenko.

In December, Britain's Investigatory Powers Tribunal (IPT) was told that GCHQ is "persistent" in its hacking of phones and computers across the globe. The spy agency's surveillance techniques include microphones and cameras built into devices to spy on people, and technology that locates peoples' position and accesses their documents.

[www.rt.com](http://www.rt.com)

#### **China denies spy charge against Canadian is retribution against Ottawa**

[www.theglobeandmail.com](http://www.theglobeandmail.com) 29-01-2016

The Chinese government has denied claims it has charged a Canadian man with spying as an act of retribution for the arrest and extradition proceedings against a Chinese man wanted by the United States for allegedly stealing fighter-jet documents.

Kevin Garratt was indicted this week after investigators "discovered some new evidence" regarding his "accumulation of information in China," foreign ministry spokeswoman Hua Chunying said Friday.

"The competent Chinese authorities will deal with the case in accordance with the law," she said, in response to a question from The Globe and Mail about the links between Mr. Garratt's indictment and the case against Su Bin, a Chinese man accused by American authorities of masterminding a hacking plot to steal military secrets. He was arrested in Vancouver not long before Mr. Garratt was detained in China with his wife, Julia, nearly 18 months ago.

The Christian couple ran a coffee shop and conducted humanitarian work in Dandong, a Chinese city on the border with North Korea. Julia Garratt has since been released on bail, but barred from leaving China or speaking with media.

The couple's children have expressed disbelief that they could be spies after living in China for much of the last three decades running kindergartens and community centres supported by Canadian church groups.

Canadian officials have said they believe the two have become pawns used by Beijing as a tit-for-tat against Ottawa.

The cases against Mr. Su and Mr. Garratt bear a number of parallels. Mr. Su was arrested on June 28, 2014; the Garratts were detained on Aug. 4 of that year.

Mr. Su is suspected of stealing and selling military secrets, Mr. Garratt of "accepting tasks" to gather intelligence on China for Canadian spy services.

Mr. Su is midway through an appeal of a judicial order committing him to extradition. U.S. Department of Justice documents revealed by The Globe and Mail on Jan. 22 say two "Chinese military officers" played key roles. Mr. Bin stands accused of giving hacking advice "to a foreign power."

China subsequently denied that its military was involved, and Mr. Garratt was indicted six days after the Globe report on charges of spying and stealing state secrets, according to a brief announcement made by China's state-run Xinhua news agency.

The charges against Mr. Garratt present a new test for the Justin Trudeau government, which has sought to dramatically improve Canada's relations with China, including talks toward a free-trade agreement.

They have also illustrated how the Chinese justice system can be used as a political tool.

Mr. Garratt is being held in a Chinese detention centre in Dandong, and has only been allowed to see lawyers once in nearly a year and a half. He has suffered health problems over the course of his long custody, and has not yet received a chance to defend himself in court.

The Chinese justice system mandates time standards for investigating suspects and bringing them to trial. But it is riddled with so many loopholes and exceptions – particularly in politically sensitive cases – "that it is possible to simultaneously handle the case in accordance with the law and hold somebody for an extended period of time in ways that violate all expectations for due process and fair trial under international law," said Joshua Rosenzweig, an independent human-rights researcher in Hong Kong.

"So they can really take as long as they want."

James Zimmerman, a Beijing-based lawyer for the Garratt family, said he could not comment on the indictment reported in Chinese media, saying he would wait to receive official documents from the court.

In Beijing, meanwhile, China's foreign ministry also batted away concerns from the Garratts' extended family that the couple were detained because of their Christian faith.

"He has been indicted because of spying and stealing China's state secrets," Ms. Hua said. "It has nothing to do with his religion."

[www.theglobeandmail.com](http://www.theglobeandmail.com)

**Longstanding US-UK Spying on Israeli Military Operations. Israel Also Spies America...**

[www.globalresearch.ca](http://www.globalresearch.ca) 31-01-2016

It's no surprise. Nations routinely spy on allies and adversaries. Today's sophisticated technology makes it easier than ever.

On Friday, Israeli and Western media reported Washington and Britain accessed Israeli military aircraft video feeds – letting them monitor IDF operations in Gaza, along with watching for potential strikes on Iran.

US and UK intelligence cracked special IDF encryption years ago. They've been monitoring communications between Israeli warplanes, drones and military bases.

Edward Snowden-released NSA documents and photos revealed it. Israel expressed disappointment but not surprise, over-hyping what it called "an earthquake...the worst leak in the history of (its) intelligence."

Tracking is done from a Royal Air Force installation near Mount Olympus, the highest point on Cyprus.

An anonymous Israeli official said the breach means Washington and Britain "forcibly stripped us, and, no less important, that probably none of our encrypted systems are safe from them."

A 2008 UK intelligence (GCHQ) report called access "indispensable for maintaining an understanding of Israeli military training and operations, and thus an insight into possible future developments in the region."

"In times of crisis, this access is critical and one of the only avenues to provide up to the minute information and support to US and allied operations in the area."

The White House declined to comment, only saying spying is conducted for national security reasons. It's espionage, stealing other countries' secrets for political, economic and military advantage.

It's not about keeping us safe. America hasn't had an enemy since Japan surrendered at WW II's end.

Domestic spying has nothing to do with national security. It's for control, transforming America into a police state, its most disadvantaged citizens victimized, thousands wrongfully imprisoned for political reasons.

Earlier released Snowden documents revealed global NSA spying, at home and abroad, including on allied world leaders. Big Brother is real, no longer fiction. Privacy no longer exists.

Unconstitutional mass surveillance is standard practice. Obama escalated what his predecessors began, secretly authorizing illegal intrusions into the lives of ordinary US citizens, monitoring their electronic and telephonic communications without judicial authorization, waging war on freedom, spying more aggressively worldwide than any previous regime in history.

Netanyahu spokesman Mark Regev once said "Israel does not spy on the United States of America."

Not according to the CIA, calling Israel America's main regional spy threat. Numerous Israeli officials are involved – with close ties to foreign military, intelligence and criminal sources.

In 2011, former CIA counterintelligence/military intelligence officer Philip Girdaldi accused Israel of stealing everything it gets its hands one, including military, political, industrial, commercial, technological, economic and financial secrets.

Annual FBI reports prominently feature Israeli spying on America. Washington's Government Accountability Office (GAO) earlier said Israel "conducts the most aggressive espionage operation against the United States of any US ally."

The Pentagon accused Israel of "actively engag(ing) in military and industrial espionage in the United States. An Israeli citizen working in the US who has access to proprietary information is likely to be a target of such espionage."

Despite longstanding close ties, past and current US national security officials consider Israel a frustrating ally, a genuine counterintelligence threat.

Its technical capability and human resources match some of America's best – with direct access to top-level US political, military and intelligence sources, enlisting them to steal American secrets.

Israel gets virtually anything it wants from Washington, its intrusive spying overlooked.

Their imperial ties matter more, longstanding partners in naked aggression and other high crimes.

[www.globalresearch.ca](http://www.globalresearch.ca)

**Russia wants to fly more spy planes over the U.S., and the Pentagon can't stop it**

In this March 27, 2008, file photo, the Pentagon is seen in this aerial view in Washington. (AP Photo/Charles Dharapak, File)

Russia filed a request Monday to fly a spy plane carrying advanced digital cameras over the United States. The move presents the United States with a dilemma: How does Washington respond at a time when Moscow and Washington are at odds over Syria and Ukraine and senior U.S. defense officials have identified Russia as the No. 1 existential threat to America?

It would be complicated for the United States to block Russia's request. The Treaty on Open Skies, which was first approved in 1992 and went into effect in 2002, allows signatories to fly unarmed aircraft carrying video and still cameras, infrared scanning devices and certain forms of radar over the territory of other treaty members. Inspections are carried out to make sure the cameras used meet the terms of treaty and are not too powerful.

Navy Capt. Jeff Davis, a Pentagon spokesman, said Monday that the treaty, which was ratified by the Senate, helps prevent any misinterpretation of military action that could lead to armed conflict.

"We have to remember that while we have pretty good intelligence on a lot of the world, a lot of other countries don't necessarily have that great of intelligence on us," Davis said. "So, in the interest of transparency and [avoiding] miscalculation on their part, sometimes it's worthwhile to allow them to have a look at what you're doing or what you're not doing."

Davis said the United States carries out Open Skies flights regularly, and Russia "has done it many times before," as well. In 2014, for example, U.S. pilots described flying Open Skies missions over Russia from Yokota Air Base in Japan.

But concerns have been raised about allowing Russia to carry out more Open Skies flights. In a letter from Adm. Cecil Haney to Rep. Mike Rogers (R.-Ala.) obtained by The Associated Press, the admiral said the treaty has become a critical component of Russia's collection of intelligence against the United States.

"In addition to overflying military installations, Russian Open Skies flights can overfly and collect on Department of Defense and national security or national critical infrastructure," wrote Haney, chief of the U.S. Strategic Command. "The vulnerability exposed by exploitation of this data and costs of mitigation are increasingly difficult to characterize."

In this March 27, 2008, file photo, the Pentagon is seen in this aerial view in Washington. (AP Photo/Charles Dharapak, File)

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Gen. Joseph F. Dunford, the nominee to be chairman of the Joint Chiefs of Staff, called Russia's behavior "nothing short of alarming" at a Senate Armed Services Committee hearing on his nomination.

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Marine Lt. Gen. Vincent Stewart, the military's top intelligence officer, said during a House Armed Services Committee hearing last year that he was "very concerned" about how Russia was using the Open Skies treaty to observe the United States, but declined to elaborate in an open, unclassified hearing.

"The Open Skies construct was designed for a different era," Stewart said, adding that he would "love" to talk about it in a session closed to the public.

Treaty members have examined how to modernize the agreement to account for digital cameras, rather than "wet film" devices that were widely used when the treaty was adopted.

The new Russian request comes as Turkey and Russia argue over planned Russian Open Skies flights over southern Turkey that were planned for this month. Russian officials said the requests were denied by the government in Ankara in open violation of the treaty. The rejection "testifies to the desire of the Turkish side to hide some activity probably taking place in areas that the Russian plane was to have flown over," according to Russia's TASS news agency.

Turkey dismissed the allegations, saying in a statement that observation flights are performed when both parties reach an agreement on a mission plan. Russia and Turkey have exchanged a series of tense messages since Nov. 24, when Turkey shot down a Russian bomber near Turkey's border.

**Reuters 26/02/2016**

**Putin to spy service: Defend Russian elections from foreign foes**

MOSCOW (Reuters) - President Vladimir Putin said on Friday he had seen specific intelligence suggesting Russia's foreign enemies were preparing for parliamentary elections later this year and ordered the security service to head off any external interference.

Putin, addressing the country's FSB security service, said foreign intelligence agencies had become much more active in 2015 and that the activities of more than 400 foreign spies had been thwarted with 23 of them charged with criminal offences.

He singled out parliamentary elections in September - which will be held at a time when Russia is navigating an economic crisis fueled by low oil prices, Western sanctions, and a weak rouble - as a particular threat to the Kremlin.

"We need to head off any external attempts to interfere in the elections, in our domestic political life," said Putin. "You know that certain kinds of (political) technologies exist and have already been used in many countries."

Referring to what he said was a direct threat to Russia's sovereignty, he said the FSB had supplied him with specific intelligence that "foreign enemies" were preparing for the elections.

"Everyone should know that we will assiduously work to defend our interests."

**Russia Today 27/02/2016**

**CIA tried to kill Castro by lacing diving suit with tuberculosis**

The CIA reportedly came up with some outlandish plots to kill former Cuban leader Fidel Castro, but this could just be the craziest yet. The US National Security Archive published information that Washington tried to give Castro a diving suit contaminated with tuberculosis.

The National Security Archive alleges that the US government contacted lawyer James Donovan to conduct secret negotiations with Castro. Given Donovan's connections to the Cuban leader, the CIA believed they could use this to their advantage to try and assassinate Castro.

"At some point during Donovan's negotiations with Castro" several officials in the covert operations division "devised a plan to have Donovan be the unwitting purveyor of a diving suit and breathing apparatus, respectively contaminated with Madura foot fungus and tuberculosis bacteria, as a gift for Castro," a passage from the National Security Archive reveals.

However, the plan was ultimately shelved after Donovan's handler Milan Miskovsky, a CIA lawyer, told him to make sure that the diving suit he had managed to obtain for Castro was not tampered with by the CIA.

Donovan met with Castro in 1963 and during one of those meetings, handed over a diving suit and a watch as a gift. The diving suit was chosen because both Donovan and Castro enjoyed diving. However, the suit was not contaminated following Miskovsky's tipoff.

Donovan is the central figure in the Oscar-nominated movie, "Bridge of Spies," with his role in the film played by actor Tom Hanks. During the film he tries to negotiate the exchange of captured American U-2 pilot Francis Gary Powers for Soviet intelligence agent Rudolf Abel.

While one of the most famous plots to try and kill Castro involved an exploding cigar, which was meant to blow up in his face, declassified information mentioned how the CIA also plotted to try and use the Cuban leader's love of strawberry milkshakes to try and kill him.

There was also another plot, which was to play on Castro's fascination with scuba diving, the CIA reportedly invested in a number of scuba-related items. The idea was to find a shell big enough to catch his attention and to fit enough explosives to serve as a booby trap.

The last attempt surfaced in 2000 when Miami exiles planned to blow up an auditorium in Panama where Castro was scheduled to give a speech.

**Salon 27/02/2016**

**Secrets, lies and the iPhone: A CIA whistleblower talks about Obama's bizarre secrecy obsession — and why Hillary and Bernie won't talk about it**

This isn't about Apple vs. the FBI — it's about a "progressive" president with a dismal record on civil liberties

It's one of the enduring mysteries of Barack Obama's presidency, as it sinks toward the sunset: How did this suave and intelligent guy, with the cosmopolitan demeanor, the sardonic sense of humor and the instinct for an irresistible photo-op, end up running the most hidden, most clandestine and most secrecy-obsessed administration in American history? And what does the fact that nobody in the 2016 campaign — not Bernie Sanders, not Hillary Clinton, not anybody — ever talks about this mean for the future? The answer to the second question is easy: Nothing good. The answer to the first one might be that those things are unrelated: Personality doesn't tell us anything about policy, and our superficial judgments about political leaders are often meaningless.

Bill Moyers warned me about this some years ago, when I asked him how he evaluated George W. Bush as a person. He wasn't much interested in character or personality in politics, he said. Lyndon Johnson had been one of the most difficult people he'd ever known, and Moyers had never liked him, but Johnson was an extraordinarily effective politician. I wasn't sharp enough to ask the obvious follow-up question, which was whether Johnson's personal flaws had fed into his disastrous policy errors in Vietnam.

Bill Moyers has forgotten more about politics than I will ever know, but the thing is, I do perceive a relationship between surface and substance, and I believe we learn something important about people almost right away. George W. Bush was profoundly incurious about the world, and insulated by layers of smarter people and money. Richard Nixon was always a creep. Bill Clinton wanted to make you cry and get your panties off. Ronald Reagan never had any idea what day it was. Barack Obama seems like a smart, funny, cool guy, and maybe he's too much of all those things for his own good.

Maybe we will look back decades from now and perceive the Obama paradox — the baffling relationship between his appealing persona and his abysmal record on surveillance, government secrecy and national security — in a different light. For one thing, whatever they told him between November of 2008 and January of 2009 must have been really scary.

I called up John Kiriakou, a former CIA agent who spent 23 months in federal prison thinking this stuff over, to see if he could help. Kiriakou is one of the nine government leakers or whistleblowers that the Obama White House and/or the Justice Department has sought to prosecute under the Espionage Act, a law passed under Woodrow Wilson during World War I that was meant to target double agents working for foreign governments. (Among the other eight actual or prospective defendants are Chelsea Manning and Edward Snowden.) Under all previous presidents, incurious George included, the Espionage Act was used for that purpose exactly three times. If you're keeping score, that's nine attempted prosecutions in seven years, versus three in 91 years.

Kiriakou had a whole lot to say, especially about former Attorney General Eric Holder and current CIA director John Brennan, whom he sees as the prime movers behind the administration's secrets-and-lies agenda — and also as the guys who railroaded him over what he describes as a minor indiscretion. Kiriakou spent 15 years in the CIA, first as an analyst and then as a covert operative. He was involved in the capture of Abu Zubaydah, and apparently knew that the alleged senior al-Qaida operative was waterboarded by CIA interrogators, although he was not directly involved.

Kiriakou's decision to talk about CIA torture in a 2007 interview ultimately landed him in prison. But it's an arcane and suggestive tale and, at least officially, his crime had nothing to do with what he said about Zubaydah and waterboarding. Kiriakou revealed the last name of a covert agent — inadvertently and in passing, he says — to an ABC News journalist named Matthew Cole, who said he was planning to write a book but was actually gathering information for defense lawyers working with detainees at Guantánamo Bay. Later, Kiriakou believes, Cole became a government informant. The whole thing would puzzle John le Carré and Immanuel Kant put together.

Even though Kiriakou's purported offense occurred when George W. Bush was in the White House, it was Obama's Justice Department that decided to investigate and prosecute him, a three-year process that left him bankrupt, unemployed and more than a million dollars in debt. In the end, he wound up spending nearly two years in prison because he mentioned one person's last name in one email. When it comes to why the Obama administration has repeatedly taken that approach, Kiriakou sounds just about as puzzled as the rest of us.

I laid out my limited understanding of the Obama paradox, pretty much the way I did a few paragraphs ago, and Kiriakou sighed. "If this had not happened to me, I would be looking at the Obama presidency as one of the most successful and most progressive presidencies in my lifetime, on everything from gay rights to the economy," he said. "His foreign policy has been largely successful, if you don't necessarily focus on the Middle East. But I just can't get past these whistleblower prosecutions, most especially my own.

"People ask me all the time if I blame Obama for this, and I tell them I don't think Obama has any idea who I am," he went on. Holder and Brennan had the president's ear, Kiriakou believes, and for reasons of their own they were devoted to punishing all leakers who made the administration look bad. "I still have friends in the White House. I still have friends in the CIA. They tell me that it was John Brennan who was the real impetus behind these prosecutions, when he was assistant national security advisor for counterterrorism. Brennan was obsessed with leaks just like Holder was obsessed with leaks, and it was Brennan who pushed these prosecutions forward."

What we see now, at the tail end of Obama's presidency, is the FBI (which is under the authority of the Justice Department and hence the White House) trying to force Apple to hack open the world's most popular and beloved handheld device, one of whose principal selling points is its unbreakable encryption. Although the president has taken no visible role in the iPhone struggle, it exemplifies what you might call the Obama line: I'm a reasonable guy and this is a special case. Don't you trust me with your secrets?

"People just don't seem to understand that this case has very broad civil liberties connotations," Kiriakou says. "This is not a fight between Apple and the FBI. If Apple allows the FBI in this one time, what's gonna stop them from asking another time? Indeed, the FBI has now asked for access to nine different phones in nine different cases. All the other cases are drug cases. So that has started already. Then, if such a back door exists, repressive regimes are going to use it and hackers are going to use it and the next thing you know everybody's got access to your phone. I mean, haven't we given up enough of our civil liberties already? All these incremental losses of our civil liberties over the years, that people either don't sense or don't care about, are bad enough. Now we have to worry about the FBI going into our phones anytime they want."

Obama came into office promising to run the most transparent and open White House in history and has done precisely the opposite. His administration has kept entire areas of national security, intelligence and anti-terrorism policy under the cloak of executive privilege. That includes the drone war that has killed several thousand people in at least six different countries. Despite the best efforts of international watchdog groups, we will probably never know its full scale and scope, or how many civilians have died in drone strikes.

It also includes the infamous "kill list" of individuals whom the president has personally determined are subject to summary execution without trial. If one person has Obama's ear on this question, it would seem to be John Brennan, who during his tenure at the CIA has transformed the agency into a clandestine military force with no uniforms, no systems of accountability and no obligation to respect the ordinary rules of war.

At least two known individuals on the kill list have been United States citizens, including the influential al-Qaida imam Anwar al-Awlaki, who was born in New Mexico. (Awlaki's teenage son, also an American citizen, was himself killed by a drone a few weeks after his father. His death is believed to have been collateral damage.) It was a year and a half after Awlaki's death before the legal framework that supposedly authorized the president to kill him was discussed in public, and that only happened after a non-classified Justice Department memo was leaked to the press, perhaps with permission from above.

That all sounds like old news in the middle of an increasingly unhinged election year whose sole foreign policy issue is the national panic over ISIS, a group that, if we stretch the point, might plausibly be held responsible for the deaths of a few dozen Americans. But just because none of this is a campaign issue does not mean it has gone away. Drone pilots are beginning to speak out about the video-game deaths they inflict on strangers thousands of miles away. A group of Air Force veterans recently published a letter to Obama in the Guardian describing the drone war as a "fundamental recruitment tool" for groups like ISIS and a driving force of terrorism. The wife of another imprisoned CIA leaker, Jeffrey Sterling (who has consistently denied any wrongdoing), has mounted a campaign aimed at convincing Obama to pardon her husband before he leaves office, which is one reason I had John Kiriakou's phone number.

On the other end of the spectrum, Donald Trump has captured a different segment of the national mood by suggesting that however many people Obama is killing in secret, it isn't enough. Other Republican candidates are somewhat less eager to talk about the drone war or the previous president's policies of "extraordinary

rendition” and “enhanced interrogation.” Trump, to say the least, is not other Republicans. He has more or less promised to bring back the Bush torture policy on steroids, stripped of any prevarication or mixed emotions.

It would be ludicrous to expect Hillary Clinton, a longtime national-security insider with close ties to the intelligence community, to adopt a different approach in the White House. Kiriakou says that an aide to Bernie Sanders wrote him a letter while he was in prison, telling him that the Vermont senator believed he had provided an important national service by revealing the CIA torture program. But issues of surveillance, spying and secrecy are never mentioned in Sanders’ fire-and-brimstone campaign speeches, which largely focus on the “free stuff.” That’s “extremely disappointing,” Kiriakou says, but suggests that Sanders’ team tested out that material and discovered that it didn’t resonate with voters.

So what’s the deal with Barack Obama? How did our coolest-ever president also turn out to be the one who pursued leakers and whistleblowers with a vengefulness and vigor without precedent in American history? To paraphrase what one of Stalin’s defeated rivals wrote in a letter to the dictator on the eve of his execution, why was John Kiriakou’s destruction useful or necessary to Obama? “I’m not sure that I can answer that question,” Kiriakou said, “and, believe me, I’ve thought about this a lot over the last four years.”

Then he pretty much did answer it, and the answer is depressing. “When you’ve got four shiny stars on your shoulder and you’re described as the ‘president’s favorite general’ and you say something that makes the president look good, you’re not going to get an espionage charge.” He is talking there about retired Gen. James Cartwright, who is suspected of leaking info about Stuxnet, the CIA computer virus that targeted Iran’s nuclear program, but was never prosecuted. “Or when you have those four shiny stars on your shoulder and you leak to your freaking girlfriend the names of 10 covert operatives, you get a pass.” That would be Gen. David Petraeus, the former CIA head who revealed far more information than Kiriakou did, and served no jail time.

“Or when you’re Hillary Clinton and you’ve got whatever it is now, 83 top-secret documents on your private server, you’re gonna get a pass,” Kiriakou continued. “It’s when you report on waste, fraud, abuse or illegality, or you embarrass the government or contradict a policy, that’s when the whole weight of the government is gonna crash down on your head.”

The Guardian 28/02/2016

#### **Keeping mum: Hugh Bonneville reveals his mother worked at MI6**

Downton Abbey actor tells Desert Island Discs his mother never discussed her work and he only made the connection years later  
A child’s view of their parents’ job can often be somewhat vague at the best of times. But the actor Hugh Bonneville has revealed that it was only decades later that he found out where his mother was going to work: MI6 .

Bonneville, best known for his long stint playing the Earl of Grantham in ITV’s Downton Abbey, told BBC Radio 4’s Desert Island Discs that even long into her retirement his mother refused to say what her work had involved.

“When I was about 10 she said: ‘I’m going to go and take a job for three days a week,’ and I burst into tears and said: ‘You’re leaving me, you hate me. I’m going to pack my bags and leave now. You’re an awful mother,’” the actor recalled, in quotes released to newspapers before the Sunday broadcast.

He continued: “Spin forward 30 more years and she’d retired. And we used to drop her off at her office sometimes at Lambeth North and I opened the newspaper one day and it said: ‘Century House, MI6 building, to be sold.’”

“I looked at the photograph and I said: ‘Mum, that’s your office,’ and she said: ‘Hmmm, yes, dear,’ and I said: ‘You’re a spy!’ And she said: ‘No, I’m not a spy, dear.’”

If his mother – known as “the Colonel” to some friends – was indeed not a spy, then both Bonneville and his father never discovered what she did.

After her death aged 85, the actor said, he asked his father whether she had discussed the work. “He said: ‘Never – she just went to the office.’”

Bonneville nonetheless said he thought the work was more likely to have been administrative rather than frontline. “So all I know is she didn’t have special umbrellas or knives coming out of her toecaps or anything like that.

“She did just work in the office but I’m extremely proud, not only that she found fulfilment in that work, as well as bringing up us kids, but that she never spoke about it.”

In other quotes released in advance by the BBC, Bonneville recounted the pressure of filming his Downton Abbey scenes with Dame Maggie Smith, who played his formidable mother.

“I can remember the very first scene I did with her and I was absolutely terrified, and I think I can remember the last scene with her and I was absolutely terrified,” he said.

“She is the most astonishing actress. Her wit is legendary, as you say, and she doesn’t suffer fools. And you raise your game, you have to.”

**From 'E'**

**Russia's spying on Britain is back to Cold War level**

[See also RT piece from Spectre 3000].

Plymouth, home to Devonport, the largest naval base in western Europe, could be a target for Russian spies

Marc Bennetts Moscow

January 25 2016

The number of Russian spies operating in Britain is comparable or higher than during the Cold War, according to Russia's leading expert on President Putin's security services. Andrei Soldatov, a Moscow-based journalist and author, said that some operate under diplomatic cover while others — so-called "illegal" agents — use false identities to pose as British citizens.

A third group of agents are Russian nationals, often businessmen, living openly in Britain. "These people are usually recruited and trained by the Russian security services to gather intelligence," he said.

Besides London, towns and cities close to Royal Navy bases are targets, he said. There are three Russian intelligence services with active agents in Britain: the GRU military intelligence agency, the SVR foreign intelligence service, and the FSB, the main successor agency to the KGB. Mr Soldatov said that the agents were involved in activities including gathering secret information on Britain's military campaign in Syria, on military hardware, science and technology, and on Westminster politics.

Russians opposed to Mr Putin's long rule are also a target. "The FSB is mostly concerned with gathering information about people who might present some kind of threat to the authorities in Russia, such as Russian dissidents living in the UK," Mr Soldatov said.

Mr Soldatov, who in 2014 was named "perhaps the single most prominent critic of Russia's surveillance apparatus" by the CIA whistleblower Edward Snowden, has been questioned by FSB investigators a number of times.

His comments come after an inquiry found that President Putin, a former FSB chief and KGB officer, probably approved the murder of the dissident Alexander Litvinenko in London.

London has become something of a home-from-home for opposition figures forced to flee Russia to escape jail or worse. On Thursday, Andy Burnham, the shadow home secretary, said that the government should review the security of other Russians who could be at risk.

Vladimir Ashurkov, a banker turned opposition activist, left Russia in 2014 shortly before prosecutors there charged him with fraud. "I definitely feel more secure on the streets of London than in Moscow, where I would be arrested on politically motivated charges," he said. Mr Ashurkov, who denies the fraud charges, was granted political asylum last year.

"I hope that the British security services have taken stricter measures after the Litvinenko murder and more recently after [the liberal politician] Boris Nemtsov's murder in Moscow, and that a Russian operative would not be able to roam the streets of London unhindered," he said.

**GCHQ rejected me over my loyalty to God, says chess star: Chess Master loses employment tribunal appeal over claim he was refused job because of his admission**

By Christian Gysin for the Daily Mail

<http://www.dailymail.co.uk/news/article-3290913/GCHQ-rejected-loyalty-God-says-chess-star-Chess-Master-loses-employment-tribunal-appeal-claim-refused-job-admission.html>

A Chess master claims he was turned down for a job at the top secret GCHQ intelligence base because of his 'devout' Christianity and 'loyalty to God over his country'.

Charlie Storey insisted his admissions – which also included drug-taking as a young man - were behind his rejection for a highly prized job after he went through a gruelling selection process at the listening station in Cheltenham, Gloucestershire.

He was eventually turned down for the job for 'national security' reasons, and later lost an Employment Tribunal case heard in Bristol before he launched an appeal against that decision.

Charlie Storey insisted his admissions – which also included drug-taking as a young man - were behind his rejection for a highly prized job  
Now an Employment Appeal Tribunal has ruled that he did not miss out on the job because of his religious beliefs or the drugs issue.

Mr Storey, 44, from Whitley Bay, North Tyneside, has always maintained that speaking about his religious beliefs cost him the chance of the job at GCHQ.

During the interview process he told GCHQ officials that 'without doubt, if required to choose between his loyalty to his country and his loyalty to God, he would choose his loyalty to God whatever the outcome'.

While he admitted he had taken recreational drugs for a period of nine months, he regarded this as the actions of a young man and said he was now psychologically fit and well.

However, in a further twist GCHQ learned from his medical records that he had suffered a 'drug-induced psychosis' in 1991 when he was just 20

During the interview process he told GCHQ officials that 'without doubt, if required to choose between his loyalty to his country and his loyalty to God, he would choose his loyalty to God whatever the outcome'

After attending a string of vetting interviews more than six years ago, Mr Storey was finally informed that he was not regarded as a 'suitable candidate' in 2009 and was therefore refused security clearance.

Mr Storey - who is a computer forensics specialist and a World Chess Federation Grand Master – had claimed at his original employment tribunal two years ago that he had been a victim of both religious and disability discrimination.

In a hearing which was held partly behind closed doors for 'security reasons' it was claimed that concerns about Mr Storey were raised partly because of his religious beliefs and the drug issue.

But the tribunal then ruled that his devout Christian beliefs and past disability linked to drugs and a psychotic episode were not the overriding reason for the refusal of security clearance.

While GCHQ admitted it has a policy that it would rarely consider job applicants who had ever suffered bipolar disorder or a psychotic illness, the tribunal said this 'did not amount to a blanket ban'.

The Bristol-based panel subsequently ruled that Mr Storey had not been less favourably treated because of his disability or religious beliefs. The decision of the tribunal has now been backed and confirmed in an Employment Appeal Tribunal ruling by The Honourable Mrs Justice Simler (correct).

The judge in her decision said GCHQ's security concerns were 'separate and distinct' from Mr Storey's past disability and his religious beliefs were also of 'no concern' in themselves.

She ruled that GCHQ were therefore entitled to conclude that 'the effect those beliefs might have on his behaviour and judgment in the workplace' did raise national security issues.

On a recent chess blog, Mr Storey wrote how he was hoping for a multi-million pay-out.

He said: 'I am looking forward to recycling my discrimination pay-out of anything up to £5 million into developing Junior Chess through my 'The National Chess Syllabus & Bandana Exam System'.'

The qualified science teacher now plans to take his case to the European Court of Human Rights.

He said after the latest ruling: 'The whole process has been ridiculous. I've been fighting this for seven years and the next stage is Europe.'

Mr Storey's CV reveals he is an IT security consultant and 'qualified ethical hacker' who also runs his own computer repairs business. He gives online advice to advanced chess players and has coached some of the England chess squad juniors.

<http://www.dailymail.co.uk/news/article-3290913/GCHQ-rejected-loyalty-God-says-chess-star-Chess-Master-loses-employment-tribunal-appeal-claim-refused-job-admission.html>

*Thanks E*

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March 2016

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|-----|-----|-----|-----|-----|-----|-----|----------------|-----|------|-----|---------------------------|----------------------------|
|     |     |     |     |     |     | x   | 0100/0120/0140 |     | V07  | 01B | 18074/15874/14374<br>883  |                            |
|     |     |     |     |     |     | x   | 0300/0320/0340 |     | V07  | 01B |                           | 14823/13423/11523<br>845   |
|     |     | x   | x   |     |     |     | 0315           |     | E11  | 03  | 7850<br>253/00            | 7850<br>253/00             |
| x   | x   | x   | x   | x   |     |     | 0400           |     | S06  | 01A | 15721<br>480              | 15721<br>480               |
|     |     |     | x   |     |     |     | 0430/0450/0510 |     | E07A | 01B |                           | 6788/ 7488/ 9322<br>741    |
| x   |     |     |     |     |     |     | 0430/0450/0510 |     | M12  | 01B |                           | 5792/ 6992<br>796, search  |
| x   |     |     |     |     |     |     | 0450           |     | E11  | 03  | 6304<br>416/00            | 6304<br>416/00             |
|     | x   |     |     | x   |     |     | 0455           |     | S11A | 03  | 5358<br>321/00            | 5358<br>321/00             |
| x   |     | x   |     | x   |     | x   | 0500           |     | HM01 | 18  | 5855                      | 5855                       |
|     | x   |     | x   |     | x   |     | 0500           |     | HM01 | 18  | 11462                     | 11462                      |
|     |     |     |     |     | x   |     | 0500/0520/0540 |     | M12  | 01B |                           | search                     |
|     |     |     | x   | x   |     |     | 0500/0600      | 1/3 | E06  | 01A |                           | 17470/<br>951, search      |
|     |     | x   |     |     |     |     | 0530/0540      |     | S06S | 01A | 9296/10365<br>464         | 9296/10365<br>464          |
|     |     |     | x   |     |     |     | 0530/0550/0610 |     | E07A | 01B | 6922/ 8122/ 9322<br>913   |                            |
| x   |     |     |     |     |     |     | 0530/0550/0610 |     | M12  | 01B | 5792/ 6992<br>796, search |                            |
|     |     | x   |     | x   |     |     | 0545           |     | E11  | 03  | 15915<br>348/00           | 15915<br>348/00            |
| x   |     | x   |     | x   |     | x   | 0600           |     | HM01 | 18  | 10345                     | 10345                      |
|     | x   |     | x   |     | x   |     | 0600           |     | HM01 | 18  | 14375                     | 14375                      |
| x   |     |     |     | x   |     |     | 0600/0610      |     | E11A | 03  | 181/00, search            | 181/00, search             |
|     | x   |     |     |     |     |     | 0600/0610      |     | S06S | 01A | 15855/16485<br>438        | 15855/16485<br>438         |
|     |     | x   |     |     | x   |     | 0600/0620/0640 |     | E07  | 01B |                           | 9064/10264/11464<br>024    |
|     |     |     |     |     | x   |     | 0600/0620/0640 |     | M12  | 01B | 8158/ 9258/10658<br>126   |                            |
|     |     | x   |     |     | x   |     | 0600/0620/0640 |     | XPAC | 01B |                           | 10359/11559/13559          |
|     |     |     | x   | x   |     |     | 0600/0700      | 1/3 | E06  | 01B | 16230/19325<br>864        |                            |
|     |     |     |     |     |     | x   | 0600/0700      |     | M14  | 01A | 6824/6990<br>382          | 6824/6990<br>382           |
|     |     |     |     |     |     | x   | 0630/0640      |     | S06S | 01A | 22185/20050<br>524        | 22185/20050<br>524         |
|     |     |     | x   |     |     |     | 0630/0650/0710 |     | M12  | 01B |                           | 7484/ 8084/<br>402, search |
|     | x   |     | x   |     |     |     | 0645           |     | E11  | 03  | 10800<br>517/00           | 10800<br>517/00            |
| x   |     | x   |     | x   |     | x   | 0700           |     | HM01 | 18  | 9330                      | 9330                       |
|     | x   |     | x   |     | x   |     | 0700           |     | HM01 | 18  | 13435                     | 13435                      |

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|     |     |     |     |     |     | x   | 0700           |     | M01   | 01B | 6510<br>463                      | 6510<br>463                      |
|     | x   |     |     |     |     |     | 0700/0710 (15) |     | S06S  | 01A | 5760/ 6930<br>374                | 5760/ 6930<br>374                |
|     |     | x   |     |     | x   |     | 0700/0720/0740 |     | E07   | 01B | search                           |                                  |
|     |     |     |     | x   |     |     | 0700/0720/0740 |     | M12   | 01B | 9338/10638/12138<br>338          |                                  |
|     |     | x   |     |     | x   |     | 0700/0720/0740 |     | XPAc  | 01B | 11409/13509/14609                |                                  |
|     | x   |     |     | x   |     |     | 0710           |     | E11   | 03  | 10221<br>633/00                  | 10221<br>633/00                  |
|     |     |     | x   |     | x   |     | 0710           |     | E11   | 03  | 14769<br>491/00                  | 14769<br>491/00                  |
| x   |     | x   |     |     |     |     | 0715           |     | S11A  | 03  | 14940<br>382/00, <b>check</b>    | 14940<br>382/00, <b>check</b>    |
|     |     |     |     | x   |     | x   | 0730           |     | E11   | 03  | 15825<br>352/00                  | 15825<br>352/00                  |
|     | x   |     |     |     |     |     | 0730/0740      |     | S06S  | 01A | 7425/11560<br>11560/12140<br>427 | 7425/11560<br>11560/12140<br>427 |
|     |     |     | x   |     |     |     | 0730/0750/0810 |     | M12   | 01B | 6784/7684/8184<br>761            |                                  |
| x   |     |     |     |     |     |     | 0745           |     | E11   | 03  | 10213<br>262/00                  | 10213<br>262/00                  |
|     | x   |     | x   |     |     |     | 0745           |     | E11   | 03  | 14575<br>335/00                  | 14575<br>335/00                  |
| x   |     |     |     |     |     |     | 0800           | 1/3 | G06   | 01A | 6810<br>329                      | 6810<br>329                      |
| x   |     | x   |     | x   |     | x   | 0800           |     | HM01  | 18  | 9065                             | 9065                             |
|     | x   |     | x   |     | x   |     | 0800           |     | HM01  | 18  | 10635                            | 10635                            |
|     |     |     | x   |     |     |     | 0800/0810      |     | E17Z  | 01A | 14260/12930<br>674               | 14260/12930<br>674               |
|     | x   |     |     |     |     |     | 0800/0810      |     | S06S  | 01A | 11635/10420<br>352               | 11635/10420<br>352               |
|     |     |     |     |     | x   |     | 0800/0820/0840 |     | E07A  | 01B |                                  | 12218/13418/14418<br>244         |
| x   |     | x   |     |     |     |     | 0800/0820/0840 |     | XPA2p | 01B | 15956/14956/13956                |                                  |
|     |     |     |     |     | x   |     | 0800/0900      |     | M14   | 01A | 5430/ 5561<br>171                | 5430/ 5561<br>171                |
|     |     | x   |     |     |     | x   | 0805           |     | E11   | 03  | 11450<br>311/00                  | 11450<br>311/00                  |
| x   |     |     | x   |     |     |     | 0820           |     | E11   | 03  | 9960<br>438/00, <b>check</b>     | 9960<br>438/00, <b>check</b>     |
|     |     | x   |     |     |     |     | 0820/0830      |     | S06S  | 01A | 8630/ 9255<br>471, <b>check!</b> | 8630/ 9255<br>471, <b>check!</b> |
| x   |     |     |     | x   |     |     | 0830           |     | E11   | 03  | 10690<br>649/00                  | 10690<br>649/00                  |
| x   |     |     |     |     |     |     | 0830/0840      |     | S06S  | 01A | 9220/ 8270<br>371                | 9220/ 8270<br>371                |
|     |     | x   |     |     |     |     | 0830/0840      |     | S06S  | 01A | 11854/12140<br>745               | 11854/12140<br>745               |
|     |     |     | x   | x   |     |     | 0830/0930      |     | S06   | 01A | 19415/16268<br>842               | 19078/16318<br>842               |
| x   |     | x   |     |     |     |     | 0900           |     | E11   | 03  | 9399<br>534/00                   | 9399<br>534/00                   |
| x   |     | x   |     | x   |     | x   | 0900           |     | HM01  | 18  | 9240                             | 9240                             |

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|     | x   |     | x   |     | x   |     | 0900           |    | HM01 | 18  | 11462                              | 11462                              |
| x   |     |     |     |     |     |     | 0900/0910      |    | S06S | 01A | 14580/13165<br>872                 | 14580/13165<br>872                 |
|     |     |     | x   |     |     |     | 0900/0910      |    | S06S | 01A | 12952/13565<br>167                 | 12952/13565<br>167                 |
|     |     |     | x   |     |     |     | 0900/0910      |    | S06S | 01A | 5744/ 6524<br>624                  | 5744/ 6524<br>624                  |
|     |     |     |     |     | x   |     | 0900/0920/0940 |    | E07A | 01B | 11133/12133/13433<br>114           |                                    |
|     | x   |     |     | x   |     |     | 0915           |    | S11A | 03  | 7317<br>484/00                     | 7317<br>484/00                     |
|     |     | x   | x   |     |     |     | 0930           |    | E11  | 03  | 8803<br>270/00                     | 8803<br>270/00                     |
|     |     |     | x   |     |     |     | 0930/0940      |    | S06S | 01A | 9081/10514<br>314                  | 9081/10514<br>314                  |
|     |     |     |     | x   |     |     | 0930/0940      |    | S06S | 01A | 12140/13515<br>516, search         | 12140/13515<br>516, search         |
| x   |     | x   |     | x   |     | x   | 1000           |    | HM01 | 18  | 5855/ 9155                         | 5855/ 9155                         |
|     | x   |     | x   |     | x   |     | 1000           |    | HM01 | 18  | 12180                              | 12180                              |
|     | x   |     |     |     |     |     | 1000/1010      |    | S06S | 01A | 6410/ 7340<br>893                  | 6410/ 7340<br>893                  |
|     |     | x   |     |     |     |     | 1000/1010      |    | S06S | 01A | 13365/14505<br>729                 | 13365/14505<br>729                 |
|     |     |     | x   |     |     | x   | 1010/1030/1050 |    | M12  | 01B | 14769/16269/18169<br>721           |                                    |
| x   |     |     | x   |     |     |     | 1015           |    | S11A | 03  | 16112<br>475/00                    | 16112<br>475/00                    |
|     | x   |     |     | x   |     |     | 1020           |    | S11A | 03  | 9960<br>426/00                     | 9960<br>426/00                     |
|     | x   |     |     |     |     |     | 1045           |    | E11  | 03  | 8102<br>576/00                     | 8102<br>576/00                     |
|     | x   |     |     |     |     |     | 1100/1110      |    | S06S | 01A | 6190/ 7230<br>754                  | 6190/ 7230<br>754                  |
| x   |     |     |     |     |     |     | 1100/1120/1140 |    | M12  | 01B | 12205/13559/14728<br>973           | 12205/13559/14728<br>973           |
|     |     | x   |     |     |     |     | 1200           | ?  | G06  | 01A | <b>x5915</b><br><b>574, search</b> | <b>x5915</b><br><b>574, search</b> |
| x   |     |     |     |     |     |     | 1200/1210      |    | S06S | 01A | 9145/11460<br>831                  | 9145/11460<br>831                  |
|     |     |     | x   |     |     |     | 1200/1210      |    | S06S | 01A | 12415/14212<br>425                 | 12415/14212<br>425                 |
|     |     |     |     |     | x   |     | 1200/1210      |    | S06S | 01A | 10350/ 8520<br>254                 | 10350/ 8520<br>254                 |
|     |     |     |     |     | x   |     | 1200/1210/1220 |    | M42C | 01C |                                    | 18206/16159/14551                  |
|     | x   | x   |     |     |     |     | 1205           |    | E11  | 03  | 9443<br>469/00, <b>check</b>       | 9443<br>469/00, <b>check</b>       |
|     | x   | x   |     |     |     |     | 1300           |    | E11  | 03  | 15632<br>133/00                    | 15632<br>133/00                    |
|     |     | x   |     |     |     |     | 1300           | ?  | G06  | 01A | <b>x5458</b><br><b>574, search</b> | <b>x5458</b><br><b>574, search</b> |
|     |     |     | x   |     |     |     | 1300           |    | G06  | 01A | 4598<br>329                        | 4598<br>329                        |
|     |     |     |     |     | x   |     | 1300/1310/1320 |    | M42C | 01C | 18437/16305/14719                  |                                    |

| Mon | Tue | Wed | Thu | Fri | Sat | Sun | UTC            | wk  | Stn   | Fam | Mar<br>kHz, ID, ...                | Apr<br>kHz, ID, ...                |
|-----|-----|-----|-----|-----|-----|-----|----------------|-----|-------|-----|------------------------------------|------------------------------------|
|     |     |     | x   |     | x   |     | 1310/1330/1350 |     | M12   | 01B | 12214/10814/ 9214<br>282           | 14468/13568/12178<br>451           |
| x   |     | x   |     |     |     |     | 1320           |     | M03   | 03  | 5463<br>543/00                     | 5463<br>543/00                     |
|     |     |     | x   |     |     | x   | 1320           |     | M03   | 03  | 9150<br>437/00                     | 9150<br>437/00                     |
|     | x   |     |     |     | x   |     | 1345           |     | E11   | 03  | 13046<br>911/00                    | 13046<br>911/00                    |
|     |     |     |     | x   | x   |     | 1400/1420/1440 |     | XPA2r | 01B | 18667/17419/16212                  |                                    |
|     |     |     |     |     | x   |     | 1500           |     | M01   | 14  | 6260<br>463                        | 6260<br>463                        |
|     | x   |     |     |     |     |     | 1500/1510      |     | S06S  | 01A | 6464/ 7242<br>537                  | 6464/ 7242<br>537                  |
|     |     |     | x   |     |     |     | 1500/1520/1540 |     | M12   | 01B | 13386/12189/11491<br>725           | 13386/12189/11491<br>725           |
|     | x   |     |     |     |     | x   | 1500/1520/1540 |     | XPA2m | 01B | 16138/14438/13438                  |                                    |
|     |     |     |     | x   |     | x   | 1500/1520/1540 |     | XPA2p | 01B |                                    | 16147/14947/14447                  |
|     |     |     |     | x   |     |     | 1510/1530/1550 |     | E07A  | 01B |                                    | 12174/11074/10274<br>102           |
|     |     |     | x   |     |     |     | 1530           |     | E11   | 03  | 10330<br>262/00                    | 10330<br>262/00                    |
| x   |     |     |     |     |     | x   | 1540           |     | E11   | 03  | 15915<br>228/00                    | 15915<br>228/00                    |
| x   | x   | x   | x   | x   | x   | x   | 1600           |     | HM01  | 18  | 11435                              | 11435                              |
|     |     |     |     |     | x   |     | 1600 (1605)    |     | S06   | 01A | 7643 (6809)<br>491                 | 7643 (6809)<br>491                 |
|     |     |     |     | x   |     |     | 1610/1630/1650 |     | E07A  | 01B | 11473/10173/ 9373<br>413           |                                    |
|     |     | x   |     |     |     | x   | 1625           |     | E11   | 03  | 10448<br>978/00                    | 10448<br>978/00                    |
| x   |     |     |     |     |     |     | 1700           | 1/2 | G06   | 01A | <b>x4632</b><br><b>574, search</b> | <b>x4632</b><br><b>574, search</b> |
| x   | x   | x   | x   | x   | x   | x   | 1700           |     | HM01  | 18  | 11530                              | 11530                              |
|     |     | x   |     |     |     | x   | 1700/1720/1740 |     | E07   | 01B |                                    | 12123/10703/ 8123<br>171           |
| x   |     |     |     |     |     |     | 1700/1720/1740 |     | M12   | 01B | 11435/10598/ 9327<br>938           | 11435/10598/ 9327<br>938           |
|     |     |     | x   |     |     |     | 1700/1720/1740 |     | M12   | 01B | 13386/12189/11491<br>725           | 13386/12189/11491<br>725           |
|     |     |     |     | x   |     |     | 1700/1800      | 1/3 | M14   | 01A | 5945/ 5477<br>382                  | 5945/ 5477<br>382                  |
|     |     | x   |     |     | x   |     | 1705           |     | E11   | 03  | 10213<br>392/00                    | 10213<br>392/00                    |
|     |     |     | x   |     |     |     | 1730           |     | E11   | 03  | 9371<br>416/00                     | 9371<br>416/00                     |
|     |     | x   |     |     |     |     | 1740/1840      | 3   | E06   | 01A | 2015: 13433/10166<br>634, search   |                                    |
| x   |     |     |     |     |     |     | 1800           | 1/2 | G06   | 01A | <b>x5380</b><br><b>574, search</b> | <b>x5380</b><br><b>574, search</b> |
| x   | x   | x   | x   | x   | x   | x   | 1800           |     | HM01  | 18  | 11635                              | 11635                              |
|     | x   |     | x   |     |     |     | 1800           |     | M01   | 14  | 5475<br>463                        | 5475<br>463                        |
|     |     | x   |     |     |     | x   | 1800/1820/1840 |     | E07   | 01B | 13419/12139/10739<br>417           |                                    |

| Mon | Tue | Wed | Thu | Fri | Sat | Sun | UTC            | wk  | Stn   | Fam | Mar<br>kHz, ID, ...      | Apr<br>kHz, ID, ...        |
|-----|-----|-----|-----|-----|-----|-----|----------------|-----|-------|-----|--------------------------|----------------------------|
| x   |     | x   |     |     |     |     | 1800/1820/1840 |     | M12   | 01B | 8047/ 6802/ 5788<br>463  | 8047/ 6802/ 5788<br>463    |
|     |     | x   |     |     |     |     | 1800/1820/1840 |     | M12   | 01B | 9176/ 7931/ 6904<br>257  | 9176/ 7931/ 6904<br>257    |
|     |     |     | x   |     |     |     | 1800/1820/1840 |     | M12   | 01B | 10343/ 9264/ 8116<br>124 | 10343/ 9264/ 8116<br>124   |
|     | x   |     |     |     |     | x   | 1800/1820/1840 |     | XPA2m | 01B |                          | 14538/13538/12138          |
| x   |     |     |     |     |     |     | 1810           |     | M01B  | 14  |                          | 3535, 4590<br>420          |
|     |     |     |     |     | x   |     | 1810/1820/1830 |     | M42C  | 01C | 12184/10292/ 8054        | 14517/12196/10413          |
|     | x   |     |     |     |     |     | 1820           | 2/4 | M14   | 01A | 5945<br>346              | 5945<br>346                |
|     |     |     | x   |     |     |     | 1830           | 2/4 | G06   | 01A | 5934<br>579              | 5934<br>579                |
|     |     |     | x   |     |     |     | 1832           |     | M01B  | 14  |                          | 3510, 4605<br>201          |
|     |     |     | x   |     |     |     | 1900/1910/1920 |     | M42C  | 01C |                          | 9186/ 6989/ 5127           |
| x   |     | x   |     |     |     |     | 1900/1920/1940 |     | E07   | 01B |                          | 12108/10708/ 9208<br>172   |
| x   |     |     |     |     |     |     | 1900/1920/1940 |     | M12   | 01B | 9176/ 7931/ 6904<br>257  | 9176/ 7931/ 6904<br>257    |
|     |     | x   |     |     |     |     | 1900/1920/1940 |     | M12   | 01B | 8047/ 6802/ 5788<br>463  | 8047/ 6802/ 5788<br>463    |
|     | x   |     | x   |     |     |     | 1900/1920/1940 |     | XPA2p | 01B |                          |                            |
|     |     |     |     | x   | x   |     | 1900/1920/1940 |     | XPA2r | 01B |                          | 17462/16114/14828          |
|     | x   |     | x   |     |     |     | 1900/1920/1940 |     | XPAe  | 01B | 9362/ 8062/ 7462         | 10943/10243/ 9243          |
|     |     |     |     | x   |     |     | 1900/2000      | 1/3 | S06   | 01A |                          | 9.../ 7...<br>761, search  |
|     |     |     |     |     | x   |     | 1900/2000      | 1/3 | S06   | 01A |                          | x5124/ 4443<br>614, search |
|     |     |     |     | x   |     |     | 1902           |     | M01B  | 14  |                          | 3625, 4941<br>153          |
| x   |     |     |     |     |     |     | 1910           |     | M01B  | 14  | 3625, 4440<br>153        |                            |
| x   |     |     |     |     |     |     | 1915           |     | M01B  | 14  |                          | 3644, 4454<br>771          |
|     |     | x   |     |     |     |     | 1920           | 2/4 | M14   | 01A | 5464<br>537              | 5464<br>537                |
|     | x   |     | x   |     |     |     | 1925           |     | E11   | 03  | 15915<br>348/00          | 15915<br>348/00            |
|     |     |     |     | x   |     |     | 1930           | 2/4 | G06   | 01A | 5442<br>947              | 5442<br>947                |
|     | x   |     |     |     |     |     | 1930/1950/2010 |     | M12   | 01B | 10343/ 9264/ 8116<br>124 | 10343/ 9264/ 8116<br>124   |
|     |     | x   |     |     |     |     | 1930/1950/2010 |     | M12   | 01B | 11435/10598/ 9327<br>938 | 11435/10598/ 9327<br>938   |
|     |     | x   |     | x   |     |     | 1955           |     | S11A  | 03  | 4016<br>371/00           | 4016<br>371/00             |
|     |     |     |     | x   |     |     | 2000           |     | E11   | 03  | 7377<br>576/00           | 7377<br>576/00             |
|     | x   |     | x   |     |     |     | 2000           |     | M01   | 14  | 5020<br>463              | 5020<br>463                |
|     |     |     | x   |     |     |     | 2000/2010/2020 |     | M42C  | 01C | 7602/ 5756/ 4469         |                            |
| x   |     | x   |     |     |     |     | 2000/2020/2040 |     | E07   | 01B | 9273/ 7873/ 6873<br>288  |                            |

| Mon | Tue | Wed | Thu | Fri | Sat | Sun | UTC            | wk  | Stn  | Fam | Mar<br>kHz, ID, ...        | Apr<br>kHz, ID, ...             |
|-----|-----|-----|-----|-----|-----|-----|----------------|-----|------|-----|----------------------------|---------------------------------|
|     |     | x   |     |     |     |     | 2000/2020/2040 |     | E07A | 01A |                            | 8144/ 6944/ 5744<br>147, search |
| x   | x   | x   | x   | x   | x   | x   | 2000/2020/2040 |     | M12  | 01B | 8047/ 6802/ 5788<br>463    | 8047/ 6802/ 5788<br>463         |
|     |     |     |     | x   |     |     | 2000/2100      | 1/3 | S06  | 01A | 9.../ 7...<br>761, search  |                                 |
|     |     |     |     |     | x   |     | 2000/2100      | 1/3 | S06  | 01A | x5124/ 4443<br>614, search |                                 |
|     |     |     |     | x   |     |     | 2002           |     | M01B | 14  | 3625, 4941<br>153          |                                 |
|     |     |     |     |     | x   | x   | 2005           |     | E11  | 03  | 8186<br>363/00             | 8186<br>363/00                  |
|     |     |     |     | x   |     |     | 2010           |     | M01B | 14  |                            | 3520, 4585(4940)<br>582         |
|     |     |     | x   |     |     |     | 2010/2030/2050 |     | E07  | 01B |                            | 9387/ 7526/ 5884<br>358         |
| x   |     |     |     |     |     |     | 2015           |     | M01B | 14  | 3644, 4454<br>771          |                                 |
|     |     |     | x   |     |     |     | 2030           | 1/3 | E06  | 01A | 5186<br>891                | 5186<br>891                     |
|     |     |     | x   |     |     |     | 2042           |     | M01B | 14  | 3715, 4570<br>477          |                                 |
| x   |     | x   |     | x   |     | x   | 2100           |     | HM01 | 18  | 11635                      | 11635                           |
|     | x   |     | x   |     | x   |     | 2100           |     | HM01 | 18  | 16180                      | 16180                           |
|     |     | x   |     |     |     |     | 2100/2120/2140 |     | E07A | 01A | 5877/ 5277/ 4577<br>825    |                                 |
|     |     | x   |     |     |     |     | 2100/2120/2140 |     | M12  | 01B |                            | 6793/ 5893/ 4593<br>785         |
|     |     |     |     | x   |     |     | 2110           |     | M01B | 14  | 3520, 4585(4940)<br>582    |                                 |
|     |     |     | x   |     |     |     | 2110/2130/2150 |     | E07  | 01B | 7516/ 5836/ 4497<br>584    |                                 |
|     |     | x   |     |     | x   |     | 2110/2130/2150 |     | M12  | 01B |                            | 11469/10469/ 9169<br>441        |
|     |     |     |     | x   |     |     | 2130           | 1/3 | E06  | 01A | 5197<br>634                | 5197<br>634                     |
| x   |     | x   |     | x   |     | x   | 2200           |     | HM01 | 18  | 10715                      | 10715                           |
|     | x   |     | x   |     | x   |     | 2200           |     | HM01 | 18  | 17480                      | 17480                           |
|     |     | x   |     |     |     |     | 2200/2220/2240 |     | M12  | 01B | 5763/ 5163/ 4463<br>714    |                                 |
| x   |     | x   |     | x   |     | x   | 2300           |     | HM01 | 18  | 11530                      | 11530                           |

## M01 FREQUENCY LIST

Frequencies may vary by a few kHz

**JAN FEB NOV DEC**

**M01/1**

**197**

| DAY       | TIME UTC | FREQ kHz |
|-----------|----------|----------|
| TUE / THU | 1800     | 5320     |
| TUE / THU | 2000     | 4490     |
| SAT       | 1500     | 5810     |
| SUN       | 0700     | 5465     |

**MAR APRIL SEPT OCT**

**M01/2**

**463**

| DAY       | TIME UTC | FREQ kHz |
|-----------|----------|----------|
| TUE / THU | 1800     | 5475     |
| TUE / THU | 2000     | 5020     |
| SAT       | 1500     | 6260     |
| SUN       | 0700     | 6510     |

**MAY JUNE JULY AUG**

**M01/3**

**025**

| DAY       | TIME UTC | FREQ kHz |
|-----------|----------|----------|
| TUE / THU | 1800     | 5280     |
| TUE / THU | 2000     | 4905     |
| SAT       | 1500     | 6435     |
| SUN       | 0700     | 6780     |

| Mon | Tue | Wed | Thu | Fri | Sat | Sun | UTC       | wk | Stn  | Fam | Jan<br>kHz, ID, ...         | Feb<br>kHz, ID, ...         | Mar<br>kHz, ID, ...    | Apr<br>kHz, ID, ...    | Remarks   |
|-----|-----|-----|-----|-----|-----|-----|-----------|----|------|-----|-----------------------------|-----------------------------|------------------------|------------------------|---|
|     | x   | x   |     |     |     |     | 0315      |    | E11  | 03  | 5779<br>253/00              | 5779<br>253/00              | 7850<br>253/00         | 7850<br>253/00         | since 01/14, last log 02/16                               |
| x   |     |     |     |     |     |     | 0450      |    | E11  | 03  | 5082<br>416/00              | 5082<br>416/00              | 6304<br>416/00         | 6304<br>416/00         | since 02/10, last log 02/16<br>2nd transmission Thu 1730z |
| x   |     |     | x   |     |     |     | 0455      |    | S11A | 03  | 4828<br>321/00              | 4828<br>321/00              | 5358<br>321/00         | 5358<br>321/00         | since 09/14, last log 02/16                               |
|     | x   |     | x   |     |     |     | 0545      |    | E11  | 03  | <del>13046<br/>181/00</del> | <del>13046<br/>181/00</del> | 15915<br>348/00        | 15915<br>348/00        | since 06/11, last log 09/15                               |
| x   |     |     | x   |     |     |     | 0600/0610 |    | E11A | 03  | 13046<br>181/00             | 13046<br>181/00             | 181/00, search         | 181/00, search         | since 07/15, last log 02/16                               |
| x   |     | x   |     |     |     |     | 0645      |    | E11  | 03  | 7840<br>517/00              | 7840<br>517/00              | 10800<br>517/00        | 10800<br>517/00        | since 07/09, last log 02/16                               |
| x   |     |     | x   |     |     |     | 0710      |    | E11  | 03  | 10800<br>633/00             | 10800<br>633/00             | 10221<br>633/00        | 10221<br>633/00        | since 02/11, last log 02/16                               |
|     |     |     | x   | x   |     |     | 0710      |    | E11  | 03  | 12924<br>491/00             | 12924<br>491/00             | 14769<br>491/00        | 14769<br>491/00        | since 07/15, last log 02/16                               |
| x   | x   |     |     |     |     |     | 0715      |    | S11A | 03  | 19099<br>382/00             | 19099<br>382/00             | 14940<br>382/00, check | 14940<br>382/00, check | since 05/14, last log 02/16                               |
|     |     |     | x   | x   |     |     | 0730      |    | E11  | 03  | 16112<br>352/00             | 16112<br>352/00             | 15825<br>352/00        | 15825<br>352/00        | since 04/15, last log 02/16                               |
| x   |     |     |     |     |     |     | 0745      |    | E11  | 03  | 10213<br>262/00             | 10213<br>262/00             | 10213<br>262/00        | 10213<br>262/00        | since 03/14, last log 02/16<br>2nd transmission Thu 1530z |
| x   |     | x   |     |     |     |     | 0745      |    | E11  | 03  | 16112<br>335/00             | 16112<br>335/00             | 14575<br>335/00        | 14575<br>335/00        | since 10/11, last log 02/16                               |
|     |     | x   |     |     | x   |     | 0805      |    | E11  | 03  | 10429<br>311/00             | 10429<br>311/00             | 11450<br>311/00        | 11450<br>311/00        | since 07/14, last log 02/16                               |
| x   |     | x   |     |     |     |     | 0820      |    | E11  | 03  | <b>6940</b><br>438/00       | <b>6940</b><br>438/00       | 9960<br>438/00, check  | 9960<br>438/00, check  | since 10/09, last log 01/16                               |
| x   |     |     | x   |     |     |     | 0830      |    | E11  | 03  | 9446<br>649/00              | 9446<br>649/00              | 10690<br>649/00        | 10690<br>649/00        | since 01/10, last log 02/16                               |
| x   | x   |     |     |     |     |     | 0900      |    | E11  | 03  | 9446<br>534/00              | 9446<br>534/00              | 9399<br>534/00         | 9399<br>534/00         | since 10/05, last log 02/16                               |
| x   |     |     | x   |     |     |     | 0915      |    | S11A | 03  | 7504<br>484/00              | 7504<br>484/00              | 7317<br>484/00         | 7317<br>484/00         | since 01/10, last log 02/16                               |
|     |     | x   | x   |     |     |     | 0930      |    | E11  | 03  | 9950<br>270/00              | 9950<br>270/00              | 8803<br>270/00         | 8803<br>270/00         | since 02/14, last log 02/16                               |
| x   |     | x   |     |     |     |     | 1015      |    | S11A | 03  | 12530<br>475/00             | 12530<br>475/00             | 16112<br>475/00        | 16112<br>475/00        | since 04/10, last log 02/16                               |
|     | x   |     | x   |     |     |     | 1020      |    | S11A | 03  | 9610<br>426/00              | 9610<br>426/00              | 9960<br>426/00         | 9960<br>426/00         | since 02/10, last log 02/16<br>2nd transmission Thu 1730z |
| x   |     |     |     |     |     |     | 1045      |    | E11  | 03  | 12153<br>576/00             | 12153<br>576/00             | 8102<br>576/00         | 8102<br>576/00         | since 01/12, last log 02/16<br>2nd transmission Fri 2000z |
| x   | x   |     |     |     |     |     | 1205      |    | E11  | 03  | <b>7984</b><br>469/00       | <b>7984</b><br>469/00       | 9443<br>469/00, check  | 9443<br>469/00, check  | since 03/10, last log 02/16                               |
| x   | x   |     |     |     |     |     | 1300      |    | E11  | 03  | 18030<br>133/00             | 18030<br>133/00             | 15632<br>133/00        | 15632<br>133/00        | since 08/13, last log 02/16                               |
| x   |     | x   |     |     |     |     | 1320      |    | M03  | 03  | 4505<br>543/00              | 4505<br>543/00              | 5463<br>543/00         | 5463<br>543/00         | since 08/13, last log 02/16                               |
|     |     |     | x   |     | x   |     | 1320      |    | M03  | 03  | 4828<br>437/00              | 4828<br>437/00              | 9150<br>437/00         | 9150<br>437/00         | since 02/11, last log 01/16                               |
| x   |     |     |     |     | x   |     | 1345      |    | E11  | 03  | 14666<br>911/00             | 14666<br>911/00             | 13046<br>911/00        | 13046<br>911/00        | since 10/15, last log 02/16                               |
|     |     |     | x   |     |     |     | 1530      |    | E11  | 03  | 5409<br>262/00              | 5409<br>262/00              | 10330<br>262/00        | 10330<br>262/00        | since 06/14, last log 02/16<br>2nd transmission Mon 0745z |
| x   |     |     |     |     | x   |     | 1540      |    | E11  | 03  | 15632<br>228/00             | 15632<br>228/00             | 15915<br>228/00        | 15915<br>228/00        | since 03/11, last log 02/16                               |
|     |     | x   |     |     | x   |     | 1625      |    | E11  | 03  | 10448<br>978/00             | 10448<br>978/00             | 10448<br>978/00        | 10448<br>978/00        | since 02/15, last log 02/16                               |
|     |     | x   |     |     | x   |     | 1705      |    | E11  | 03  | 9443<br>392/00              | 9443<br>392/00              | 10213<br>392/00        | 10213<br>392/00        | since 02/14, last log 02/16                               |
|     |     |     | x   |     |     |     | 1730      |    | E11  | 03  | 5082<br>416/00              | 5082<br>416/00              | 9371<br>416/00         | 9371<br>416/00         | since 03/10, last log 02/16<br>2nd transmission Mon 0450z |
| x   |     | x   |     |     |     |     | 1925      |    | E11  | 03  | <del>5815<br/>371/00</del>  | <del>5815<br/>371/00</del>  | 15915<br>348/00        | 15915<br>348/00        | since 07/15, last log 10/15                               |
|     |     | x   | x   |     |     |     | 1955      |    | S11A | 03  | 5815<br>371/00              | 5815<br>371/00              | 4016<br>371/00         | 4016<br>371/00         | since 02/14, last log 02/16                               |
|     |     |     |     | x   |     |     | 2000      |    | E11  | 03  | 6304<br>576/00              | 6304<br>576/00              | 7377<br>576/00         | 7377<br>576/00         | since 03/12, last log 02/16<br>2nd transmission Tue 1045z |
|     |     |     |     | x   | x   |     | 2005      |    | E11  | 03  | 11107<br>363/00             | 11107<br>363/00             | 8186<br>363/00         | 8186<br>363/00         | since 03/14, last log 02/16<br>2nd transmission Thu 1530z |

| Mon | Tue | Wed | Thu | Fri | Sat | Sun | UTC  | wk  | Stn | Fam | Jan<br>kHz, ID, ... | Feb<br>kHz, ID, ... | Mar<br>kHz, ID, ...  | Apr<br>kHz, ID, ...  | Remarks  |
|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|---------------------|---------------------|----------------------|----------------------|--|
| x   |     |     |     |     |     |     | 0800 | 1/3 | G06 | 01A | 5320<br>329         | 5320<br>329         | 6810<br>329          | 6810<br>329          | since 07/10, last log 02/16<br>repeat at Thu 1300Z                                   |
|     | x   |     |     |     |     |     | 1200 | ?   | G06 | 01A | 4912<br>574         | 4912<br>574         | x5915<br>574, search | x5915<br>574, search | since 10/14, last log 02/16<br>yearly changing frequencies + id<br>repeat at 1300Z   |
|     | x   |     |     |     |     |     | 1300 | ?   | G06 | 01A | 4039<br>574         | 4039<br>574         | x5458<br>574, search | x5458<br>574, search | since 10/14, last log 02/16<br>yearly changing frequencies + id<br>repeat from 1200Z |
|     |     | x   |     |     |     |     | 1300 |     | G06 | 01A | 4460<br>329         | 4460<br>329         | 4598<br>329          | 4598<br>329          | since 09/11, last log 01/16<br>repeat from Mon 0800Z                                 |
| x   |     |     |     |     |     |     | 1700 | 1/2 | G06 | 01A | 3690<br>574         | 3690<br>574         | x4632<br>574, search | x4632<br>574, search | since 04/10, last log 02/16<br>yearly changing frequencies + id<br>repeat at 1800Z   |
| x   |     |     |     |     |     |     | 1800 | 1/2 | G06 | 01A | 4562<br>574         | 4562<br>574         | x5380<br>574, search | x5380<br>574, search | since 05/09, last log 02/16<br>yearly changing frequencies + id<br>repeat from 1700Z |
|     |     | x   |     |     |     |     | 1830 | 2/4 | G06 | 01A | 4519<br>271         | 4519<br>271         | 5934<br>579          | 5934<br>579          | since 05/01, last log 02/16<br>repeat at Fri 1930Z                                   |
|     |     |     | x   |     |     |     | 1930 | 2/4 | G06 | 01A | 4792<br>436         | 4792<br>436         | 5442<br>947          | 5442<br>947          | since 04/01, last log 02/16<br>repeat from Thu 1830Z                                 |

## Current HM01 Schedules

| Freq 1 | Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|--------|--------|--------|---------|-----------|----------|--------|----------|
| 5855   | 0500   | 0500   |         | 0500      |          | 0500   |          |
| 11462  |        |        | 0500    |           | 0500     |        | 0500     |
| 10345  | 0600   | 0600   |         | 0600      |          | 0600   |          |
| 14375  |        |        | 0600    |           | 0600     |        | 0600     |
| 9330   | 0700   | 0700   |         | 0700      |          | 0700   |          |
| 13435  |        |        | 0700    |           | 0700     |        | 0700     |
| 9065   | 0800   | 0800   |         | 0800      |          | 0800   |          |
| 11635  |        |        | 0800    |           | 0800     |        | 0800     |
| 9240   | 0900   | 0900   |         | 0900      |          | 0900   |          |
| 11462  |        |        | 0900    |           | 0900     |        | 0900     |
| 5855   | 1000   | 1000   |         | 1000      |          | 1000   |          |
| 9155   | 1000   | 1000   |         | 1000      |          | 1000   |          |
| 12180  |        |        | 1000    |           | 1000     |        | 1000     |
| 11435  | 1600   | 1600   | 1600    | 1600      | 1600     | 1600   | 1600     |
| 11530  | 1700   | 1700   | 1700    | 1700      | 1700     | 1700   | 1700     |
| 11635  | 1800   | 1800   | 1800    | 1800      | 1800     | 1800   | 1800     |
| 11635  | 2100   | 2100   |         | 2100      |          | 2100   |          |
| 16180  |        |        | 2100    |           | 2100     |        | 2100     |
| 10715  | 2200   | 2200   |         | 2200      |          | 2200   |          |
| 17480  |        |        | 2200    |           | 2200     |        | 2200     |

**XPA[Sched c & e] and XPA2[Sched m, r & t] Russian Intelligence Multitone Systems**  
**[Radiogramma] Transmission Schedules**

| Zulu >     | 0600/0700 Sched c<br>Wednesday/Saturday<br>USB 10baud |       |       | 1730/1900 Sched e<br>Tuesday / Thursday<br>USB 10baud |       |      | XPA2 Sched m Various<br>Sun/Tue<br>H 00 H+20 H+40<br><i>1300,1500,1800,2000,2100</i> |              |              | XPA2 Sched r<br>Various Fri/Sat<br>H 00 H+20 H+40<br><i>1400, 1900, 2100</i> |              |              |
|------------|---|-------|-------|---|-------|------|--|--------------|--------------|--|--------------|--------------|
| Month<br>v |   |       |       |   |       |      |  |              |              |  |              |              |
| Jan        | 9108  | 10908 | 12208 | 7891  | 6791  | 5391 | <i>16138</i>   | <i>14438</i> | <i>13438</i> | <i>16167</i>   | <i>14663</i> | <i>13923</i> |
| Feb        | 11409   | 13509 | 14609 | 8123  | 7523  | 6823 | <i>16338</i>   | <i>14538</i> | <i>13538</i> | <i>18667</i>   | <i>17419</i> | <i>16212</i> |
| Mar        | 11409   | 13509 | 14609 | 9362  | 8062  | 7462 | <i>16138</i>   | <i>14438</i> | <i>13438</i> | <i>18667</i>   | <i>17419</i> | <i>16212</i> |
| Apr        | 10359   | 11559 | 13559 | 10943   | 10243 | 9243 | <i>14538</i>   | <i>13538</i> | <i>12138</i> | <i>17462</i>   | <i>16114</i> | <i>14828</i> |
| May        | 10868   | 12168 | 13368 | 10438   | 9938  | 9138 | <i>14538</i>   | <i>13538</i> | <i>12138</i> | <i>17462</i>   | <i>16114</i> | <i>14828</i> |
| June       | 11409   | 13509 | 14609 | 10438   | 9938  | 9138 | <i>14738</i>   | <i>13438</i> | <i>12138</i> | <i>16167</i>   | <i>14663</i> | <i>13923</i> |
| July       | 11409   | 13509 | 14609 | 10943   | 10243 | 9243 | <i>14538</i>   | <i>13538</i> | <i>12138</i> | <i>15967</i>   | <i>13884</i> | <i>12217</i> |
| Aug        | 10868   | 12168 | 13368 | 12187   | 10787 | 9387 | <i>14738</i>   | <i>13438</i> | <i>12138</i> | <i>16167</i>   | <i>14663</i> | <i>13923</i> |
| Sept       | 10359   | 11559 | 13559 | 11576   | 10476 | 9276 | <i>14538</i>   | <i>13538</i> | <i>12138</i> | <i>16167</i>   | <i>14663</i> | <i>13923</i> |
| Oct        | 10868   | 12168 | 13368 | 9362  | 8062  | 7462 | <i>16338</i>   | <i>14538</i> | <i>13538</i> | <i>17462</i>   | <i>16114</i> | <i>14828</i> |
| Nov        | 11409   | 13509 | 14609 | 8123  | 7523  | 6823 | <i>18238</i>   | <i>16238</i> | <i>14438</i> | <i>17462</i>   | <i>16114</i> | <i>14828</i> |
| Dec        | 7756  | 9056  | 10656 | 8164  | 7364  | 5864 | <i>14538</i>   | <i>13538</i> | <i>12138</i> | <i>15967</i>   | <i>13884</i> | <i>12217</i> |

**Notes:**

Freqs shown in *italics* indicate unsure freqs, or en bloc transmissions that are believed to have closed.

- XPA c 0600/0700z schedule appears to be robust with reasonably strong signals into UK
- XPA e 1730/1900z schedule E appears robust; sometimes difficult to receive in Great Britain, monitor in Slovenia has good success.
- XPA2 m Repetitive frequency triplets, appears robust, generally strong into UK
- XPA2 r Schedule appears robust; generally very strong signals to UK
- XPA2 p Six day variable schedule, separate document

Updated 03/03/2016

**XPA2 p Russian Intelligence Multitone Systems [Radiogramma] Transmission Schedules**

| <b>Zulu H+20</b> | <b>Sun</b> |       |       | <b>Mon</b> |       |       | <b>Tue</b> |       |       | <b>Wed</b> |       |       | <b>Thu</b> |       |       | <b>Fri</b> |       |       | <b>Sat</b> |  |  |
|------------------|------------|-------|-------|------------|-------|-------|------------|-------|-------|------------|-------|-------|------------|-------|-------|------------|-------|-------|------------|--|--|
| <b>Jan 0800</b>  |            |       |       | 15978      | 14978 | 14378 |            |       |       | 15978      | 14978 | 14378 |            |       |       |            |       |       |            |  |  |
| <b>Feb 0800</b>  |            |       |       | 15983      | 14783 | 13883 |            |       |       | 15983      | 14783 | 13883 |            |       |       |            |       |       |            |  |  |
| <b>Mar 0800</b>  |            |       |       | 15956      | 14956 | 13956 |            |       |       | 15956      | 14956 | 13956 |            |       |       |            |       |       |            |  |  |
| <b>Apr 1500</b>  | 16147      | 14947 | 14447 |            |       |       |            |       |       |            |       |       |            |       |       | 16147      | 14947 | 14447 |            |  |  |
| <b>May 1500</b>  | 16314      | 15814 | 14514 |            |       |       |            |       |       |            |       |       |            |       |       | 16314      | 15814 | 14514 |            |  |  |
| <b>June 1900</b> |            |       |       |            |       |       | 15884      | 14984 | 14384 |            |       |       | 15884      | 14984 | 14384 |            |       |       |            |  |  |
| <b>July 1900</b> |            |       |       |            |       |       | 15884      | 14984 | 14384 |            |       |       | 15884      | 14984 | 14384 |            |       |       |            |  |  |
| <b>Aug 1900</b>  |            |       |       |            |       |       | 16314      | 15814 | 14514 |            |       |       | 16314      | 15814 | 14514 |            |       |       |            |  |  |
| <b>Sept 1500</b> | 16147      | 14947 | 14447 |            |       |       |            |       |       |            |       |       |            |       |       | 16147      | 14947 | 14447 |            |  |  |
| <b>Oct 1500</b>  | 16147      | 14947 | 14447 |            |       |       |            |       |       |            |       |       |            |       |       | 16147      | 14947 | 14447 |            |  |  |
| <b>Nov 0800</b>  |            |       |       | 16073      | 14973 | 14373 |            |       |       | 16073      | 14973 | 14373 |            |       |       |            |       |       |            |  |  |
| <b>Dec 0800</b>  |            |       |       | 15861      | 14761 | 13561 |            |       |       | 15861      | 14761 | 13561 |            |       |       |            |       |       |            |  |  |

**XPA2 p**

Appears to be a robust schedule  
Strong into UK

**SPECIAL MATTERS**

**Operation Jallaa: Nil Return**



**MESSAGES:**

**'E'** . Mni Tnks – trouble with PO delayed letter until 12/01. Last OK, thanks. Stay well/GL.

**RELEVANT WEBSITES**

ENIGMA 2000 Website: <http://www.enigma2000.org.uk>

Frequency Details can be downloaded from: <http://www.cvni.net/radio/>

More Info on 'oddities' can be found on Brian of Sussex' excellent web pages: <http://www.brogers.dsl.pipex.com/page2.html>

Time zone information: <http://www.timeanddate.com/library/abbreviations/timezones/>

Encyclopedia of Espionage, Intelligence, and Security <http://www.espionageinfo.com/>

**EyeSpyMag!**

<http://www.eyespymag.com>

| 2016           |    |    |    |                 |    |    |    |                  |    |    |    |    |    |    |    |    |    |    |    |    |
|----------------|----|----|----|-----------------|----|----|----|------------------|----|----|----|----|----|----|----|----|----|----|----|----|
| <b>January</b> |    |    |    | <b>February</b> |    |    |    | <b>March</b>     |    |    |    |    |    |    |    |    |    |    |    |    |
| Su             | M  | Tu | W  | Th              | F  | Sa | Su | M                | Tu | W  | Th | F  | Sa | Su | M  | Tu | W  | Th | F  | Sa |
|                |    |    |    |                 | 1  | 2  | 1  | 2                | 3  | 4  | 5  | 6  |    | 1  | 2  | 3  | 4  | 5  |    |    |
| 3              | 4  | 5  | 6  | 7               | 8  | 9  | 7  | 8                | 9  | 10 | 11 | 12 | 13 | 6  | 7  | 8  | 9  | 10 | 11 | 12 |
| 10             | 11 | 12 | 13 | 14              | 15 | 16 | 14 | 15               | 16 | 17 | 18 | 19 | 20 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 17             | 18 | 19 | 20 | 21              | 22 | 23 | 21 | 22               | 23 | 24 | 25 | 26 | 27 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| 24             | 25 | 26 | 27 | 28              | 29 | 30 | 28 | 29               | 27 | 28 | 29 | 30 | 31 |    |    |    |    |    |    |    |
| 31             |    |    |    |                 |    |    |    |                  |    |    |    |    |    |    |    |    |    |    |    |    |
| <b>April</b>   |    |    |    | <b>May</b>      |    |    |    | <b>June</b>      |    |    |    |    |    |    |    |    |    |    |    |    |
| Su             | M  | Tu | W  | Th              | F  | Sa | Su | M                | Tu | W  | Th | F  | Sa | Su | M  | Tu | W  | Th | F  | Sa |
|                |    |    |    |                 | 1  | 2  | 1  | 2                | 3  | 4  | 5  | 6  | 7  |    | 1  | 2  | 3  | 4  |    |    |
| 3              | 4  | 5  | 6  | 7               | 8  | 9  | 8  | 9                | 10 | 11 | 12 | 13 | 14 | 5  | 6  | 7  | 8  | 9  | 10 | 11 |
| 10             | 11 | 12 | 13 | 14              | 15 | 16 | 15 | 16               | 17 | 18 | 19 | 20 | 21 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 17             | 18 | 19 | 20 | 21              | 22 | 23 | 22 | 23               | 24 | 25 | 26 | 27 | 28 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 24             | 25 | 26 | 27 | 28              | 29 | 30 | 29 | 30               | 31 | 26 | 27 | 28 | 29 | 30 |    |    |    |    |    |    |
|                |    |    |    |                 |    |    |    |                  |    |    |    |    |    |    |    |    |    |    |    |    |
| <b>July</b>    |    |    |    | <b>August</b>   |    |    |    | <b>September</b> |    |    |    |    |    |    |    |    |    |    |    |    |
| Su             | M  | Tu | W  | Th              | F  | Sa | Su | M                | Tu | W  | Th | F  | Sa | Su | M  | Tu | W  | Th | F  | Sa |
|                |    |    |    |                 | 1  | 2  | 1  | 2                | 3  | 4  | 5  | 6  |    | 1  | 2  | 3  |    |    |    |    |
| 3              | 4  | 5  | 6  | 7               | 8  | 9  | 7  | 8                | 9  | 10 | 11 | 12 | 13 | 4  | 5  | 6  | 7  | 8  | 9  | 10 |
| 10             | 11 | 12 | 13 | 14              | 15 | 16 | 14 | 15               | 16 | 17 | 18 | 19 | 20 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 17             | 18 | 19 | 20 | 21              | 22 | 23 | 21 | 22               | 23 | 24 | 25 | 26 | 27 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 24             | 25 | 26 | 27 | 28              | 29 | 30 | 28 | 29               | 30 | 31 | 25 | 26 | 27 | 28 | 29 | 30 |    |    |    |    |
| 31             |    |    |    |                 |    |    |    |                  |    |    |    |    |    |    |    |    |    |    |    |    |
| <b>October</b> |    |    |    | <b>November</b> |    |    |    | <b>December</b>  |    |    |    |    |    |    |    |    |    |    |    |    |
| Su             | M  | Tu | W  | Th              | F  | Sa | Su | M                | Tu | W  | Th | F  | Sa | Su | M  | Tu | W  | Th | F  | Sa |
|                |    |    |    |                 |    | 1  | 1  | 2                | 3  | 4  | 5  |    | 1  | 2  | 3  |    |    |    |    |    |
| 2              | 3  | 4  | 5  | 6               | 7  | 8  | 6  | 7                | 8  | 9  | 10 | 11 | 12 | 4  | 5  | 6  | 7  | 8  | 9  | 10 |
| 9              | 10 | 11 | 12 | 13              | 14 | 15 | 13 | 14               | 15 | 16 | 17 | 18 | 19 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 16             | 17 | 18 | 19 | 20              | 21 | 22 | 20 | 21               | 22 | 23 | 24 | 25 | 26 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 23             | 24 | 25 | 26 | 27              | 28 | 29 | 27 | 28               | 29 | 30 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |    |    |    |
| 30             | 31 |    |    |                 |    |    |    |                  |    |    |    |    |    |    |    |    |    |    |    |    |

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