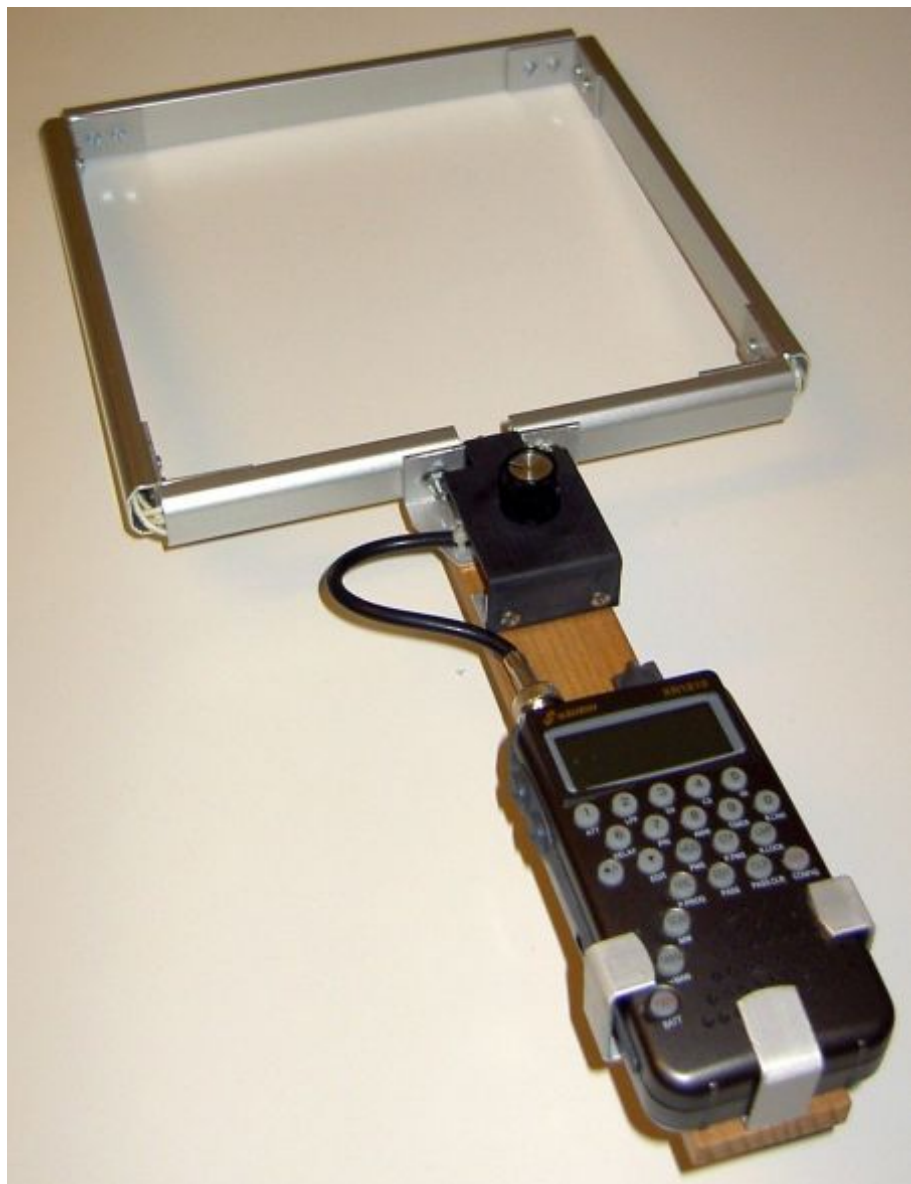# ENIGMA 2000 NEWSLETTER

http://www.enigma2000.org.uk

Shielded Loop covering 4000 to 10000kHz
Made by member Fritz Nusser to trace QRM
Fritz kindly let us use this image to promote homebrewing

ISSUE 64

May 2011

http://www.enigma2000.org.uk

EDITORIAL

Welcome all to Issue 64.

In the intro to last Issue (63) we commented on the remarkable happenings around the world, well the past two months have been even more tumultuous.

The long term effects of all these events are impossible to even guess at but the world is a different place today to the one of four months ago – and there will be no going back.

To the interested observer one thing has certainly stood out amongst all others; the emergence of the so called "Arab Spring."

This comes not as a result of any form of radicalism or terrorism or rebellion, or any of the other negative things it's being called, but from the overwhelming desire of normal hard working families to have their voices heard, listened to, and to live in peace.

Their absolute determination to throw off the shackles of dictatorship and systems of absolute control and exchange them for processes of self determination and individual choice.

Their journey from feudalsim is very likely to be a long, painful, and bloody one – as the past few weeks have shown.

None of this has been reflected by the activities of our Number Stations.

Enjoy, once again, our efforts

Paul & Mike L

The quick roundup

E10 Desk, Ian rounds off the demise of this station with his thoughts and opinions – but that's not the last we've seen of him.

M12, still comes up with more new ID's – highlighted in Brian's Charts

Comment

Unfortunately there is no **Morse Station** overview/synopsis for this Newsletter.
Mike L through a series of unrelated but concurrent events needed to devote much time to family matters.

Thanks are given to our CW contributors and any relevant logging information will be incorporated into the next Issue.

GERMAN BRANCH REPORT

Many events and logs - the report from E2K's German Branch (E2Kde) and X06 team

Hallo liebe Freunde und Kollegen der deutschen Branche und des X06 Teams von E2K (Hello dear friends and colleagues of E2K's German Branch and the X06 team)

Many things happened in these 2 months, not only in the German Branch. As you all know, the X06 team organized "logging weeks", which will be reported below. But first of all the events in and around E2Kde:

Lunch lecture about numbers stations at Delft University

Peter Staal from Holland already introduced it at our Cologne meeting last year (see NL61), and it was held on February 8th. You can have a listen and a watch on Youtube at www.youtube.com/watch?v=h1XuKA8Kj4w (49 minutes long!). Peter also brought numbers sound samples from Conet, but unfortunately in bad quality (except for the G16 "November Uniform" at the beginning). However, the lecture itself was excellent. Dank je well, Peter, for sharing.

Publicity

In March and April, the media were again interested in the subject of numbers stations, especially in the Berlin region. On March 16th, the internet channel www.rockradio.de in Berlin brought an interesting programme about numbers stations, where one of Germany's great pioneers of this subject, Christian Spremberg, was interviewed for, who is now living in Berlin. The used sound samples came from the Conet Project (as so often), only one of them, the G08, came from SIS Germany. (I should also be interviewed, but technical problems made it impossible; luckily we have Christian, who made it excellently as usual. Thanks for that, dear friend.)

One day before this transmission, I was interviewed by Peter Illmann from the "Krimi Show", a programme on the Berlin internet channel www.hoerbuchfm.de. This programme was transmitted on April 4th and was also OK. This time without sound samples, but with piano playing from me (criminal story themes like James Bond for example).

On April 15th, I was interviewed life during the programme "Schöne Woche" (Nice week), transmitted on Radio1, the first programme of the public station "Radio Berlin-Brandenburg (RBB)". The moderators made their programme in a "pseudo-cool" style and were not really interested in the subject. The man, who requested this interview, seemed to be more interested, but gave it further to his colleagues, who were responsible for moderating the whole transmission. The used sound samples came from me this time (E06, XPA).

All 3 programms you can hear at
http://schrott.sven-freitag.de/index.php?dir=kasette (in German). Thanks to FreakE2Kde for uploading these programmes, which he got from me in Erfurt on cassette.

On April 13th, FreakE2Kde (Sven in Eastern Germany) made another kind of publicity in the "Lateline", a youth programme, which is transmitted on some public German youth radio programmes together. He reported about his own experiences with numbers stations as a newcomer. He also brought a sound sample, the G02 from Conet. It was interesting for us fans, but I think, the moderator was not as interested as we would be, because the subject was new for him, although he heard a numbers station as a teeny. This programme (of course also in German) you can hear on demand. Please ask Sven (Sven@sven-freitag.de).

There is one common thing in all 4 interviews: A general introduction into numbers stations was given for the public, but nothing about existing documents, for example from the Ministry of State Security (Stasi) of the German Democratic Republic, which are available nowadays. There you can find many interesting facts about numbers stations and deciphering methods. Joerg Drobick, one of our specialist in this subject, brings interesting stuff on his website, and some hot news we already presented, for example in EN 60.

E2Kde meeting in Erfurt

Without doubt, the main event for the German Branch was the 3rd official E2Kde meeting, held in the restaurant "Don Giovanni", near the main train station in Erfurt on April 23rd. Before that, I had an internal meeting with MariusE2Kde at the Bodensee in Southwestern Germany. Unfortunately he couldn't come to Erfurt. Also Peter Staal from Holland was not at the meeting because of time misleedings. That was very sad, because he had many interesting documents, which he couldn't show us (hopefully he will join us at the next meeting). Anyway, it was successful. Although the live-stram, which we wanted to build up, didn't work, we had connection to 3 others from the German Branch via Skype, so that we were 7 all in all (4 in Erfurt). Everyone of us came with his receiver and other equipment. Although we couldn't receive numbers stations at this QTH because of too much QRM, we talked about E25 and other stations. Also we discussed the possibility of a bigger meeting with the hobbyfriends from abroad in UK. Most of us are interested in such a meeting, but this can not happen before September. So there is the suggestion to make a UK meeting next year, perhaps in summer. This year, some E2Kde members have some changes in job and private life, including myself, who will move within Marburg this year. The group had the idea to make a new E2Kde meeting in Marburg in my new house, when I will live there. This could happen in September for example.

The interviews, which are mentioned above, were presented in Erfurt, also the X07 from Karl-HeinzE2Kde, who also couldn't come. This station is historical, recorded in the mid-80s. You can also find it on Sven's page together with the interviews (link see above) and a musical trailer for this meeting, consisting in a music box melody: the overture to Mozart's opera "Don Giovanni" (suitable to the QTH) and then myself playing the piano and singing a changed text of the popular "Bason Street Blues" (2 files: spieluhr.ogg and don-giovanni.ogg).

There are also photos of the meeting, which are available on Sven's page too, but in another directory:
http://schrott.sven-freitag.de/index.php?dir=erfurt (especially interesting for all, who could not join us at our meeting).

X06 logging weeks

From March 21st to 27th, the X06 team organized a big "loggin week", where we wanted to find as many X06 stations as we could. We were supported by other mailing lists like E2K of course, Spooks/Numbers&Oddities and SIS Germany, and got 7 additional supporters: 3 from the USA, Eddy from Australia, Gary Neville from UK and Chris and Sven (Brumm and Freak), both E2Kde. As we all feared, this week brought not many signals from X06, so it was a similar result like 2007, as we had the first logging weeks. But interestingly, there were some special X06b transmissions, which came on 4 freqs, which differed in only 1 MHz, as you can see in the logs section below. This behaviour we could monitor in the following weeks too. After the 1st logging week we decided to extend it, and the signal catches increased. As you can see, there's a lot of X06 traffic in these 2 months. Peter, our "vice-Kopf", is analyzing the signals with support of Hans and possibly Kopf. We hope to present some interesting results from him in one of the next newsletter reports. And here is the amount of signals:

X06 Mazielka (1C) logs section

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Date     Day UTC       Freq  Scale  Monitor       Comments
20110301 Tue 0905-0915  9450 165423 Hans/NO       Fair with strong BC station on freq
20110302 Wed 1356-1357 14650 215346 Peter/UK      Weak – then CROWD36 after 6 mins
20110302 Wed 1546-1553 14871 156234 Peter         S4-7 with some background QRM
20110302 Wed 1614       10731 314265 Peter         Weak shortie (30 secs)
20110304 Fri 0937-0940 14570 324615 Peter         S7 clear
20110304 Fri 1000-1005 12215 361245 Peter         S4 clear with hum
20110304 Fri 1256-1308 16117 463125 Peter         S9+ beautiful clean sig with fading
20110310 Thu 0852-0854  7988 561243 Hans          Fair
20110310 Thu 1008-1010 11411 164532 Hans          Strong
20110311 Fri 0827-0911  9320 2-–4-– Hans          Weak to fair, some QSB
20110311 Fri 0844-0848 14863 615243 Hans          Weak in local noise
20110311 Fri 0858-0900 10653 356412 Peter         S8-9 good
20110311 Fri 1310-1315 14871 156234 Peter         S8-9 good in AM but with fading
20110311 Fri 1409-1414 14871 156234 Peter         Poor S2-3 with QRM
20110311 Fri 1704-1710 12118 164253 Peter         S9+ with strong carrier over
20110312 Sat 1212-1213 16276 314265 Peter         Weak
20110312 Sat 1218       11525 156234 Peter         Weak shortie (15 secs)
20110312 Sat 1431-1432 16276 314265 Peter         Strong and clear
20110313 Sun 1122       16060 261453 Leif Dehio    Extremely rare scale and freq
20110313 Sun 1845-1900  7411 165324 BrummE2Kde    Rare freq, weak with fading
20110314 Mon 1538-1542 12195 314265 Peter         S4
20110315 Tue 1022-1024 14812 246531 Peter         Alert type 2(1)
20110315 Tue 1026-1031 18206 246531 Peter         2(2)
20110316 Wed 2310-2317  5831 164532 Dave/IE       Good
20110318 Fri 1021-1023 14501 361245 Peter         S8 good
20110318 Fri 1023-1029 14824 625413 Peter         S1-2
20110318 Fri 1056-1057 16115 215346 Peter         S1
20110318 Fri 1450-1500 14650 215346 Peter         S3-7
20110318 Fri 1612-1625 12207 215346 Peter         S2-4
20110321 Mon 0747-0753 14655        Peter         X06 intro (S4), followed by CROWD36
20110321 Mon 0757-0800  9450 1---6- Hans          X06b (only short snatch caught)
20110321 Mon 0800-0807      1---6- KopfE2Kde      X06b heard in progress (ca. 9 mHz)
20110321 Mon 1640-1642 11438 532614 Peter         S8-9 good
20110322 Tue 0606-0608 14871 156234 Hans          Weak
20110322 Tue 1636-1644 10202 215346 Peter         S7-8 good
20110322 Tue 2136-2151  6962 164532 4D/US, E/UK   Alert 2(1) Weak (US)
20110322 Tue 2153       8131 164532 E/UK          2(2) Shortie
20110323 Wed 0750-0800 12300 1-2-3- Hans          X06b with good signal
20110323 Wed 0850-0853 11483 412356 Peter         S5-6 good
20110323 Wed 0900-0905 16116 134265 Kopf          Good
20110324 Thu 0834-0837  9065 561243 Hans          Strong with some digital QRM
20110324 Thu 1001-1005 11411 164532 Hans          Weak/fair
20110324 Thu 1217-1222 13300 1---6- Hans          X06b (1 of 4 freqs with this scale)
20110324 Thu 1223-1224 14300 1---6- Hans          X06b (2 of 4 freqs)
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20110324 Thu 1225-1226 12300 1---6- Hans         X06b (3 of 4, the usual test freq)
20110324 Thu 1227-1228 13300 1---6- Hans         X06b, comeback on the 1st freq
20110324 Thu 1229-1230 11300 1---6- Hans         X06b (4 of 4 freqs)
20110326 Sat 1217-1219 14871 156234 LU5EMM       Weak
20110328 Mon 0824       8088 532614 RNGB         Shortie, then CROWD36 at 0828 UTC
20110329 Tue 0728      12300 4----- Hans         X06b with single tone
20110329 Tue 0731      13300 4----- Hans         X06b, moved from 12300 kHz
20110329 Tue 0732      11300 4----- Hans         X06b, moved from 13300 kHz
20110329 Tue 0733      14300 4----- Hans         X06b (last transmission)
20110329 Tue 0838-0839 11300 4----- Hans         Short comeback
20110329 Tue 1047-1052 14655 146253 Peter        Fair
20110329 Tue 1132-1136 14655 164253 Peter        Fair to good
20110329 Tue 1437      12120 164253 Peter        Fair shortie (23 secs) with BC over
20110330 Wed 1110-1113 14655 164253 Hans         Strong
20110330 Wed 1202-1207 12167 621543 Peter        S1-3
20110330 Wed 1211-1213 14655 164532 Peter        V. poor but readable (diff. scale)
20110330 Wed 1447-1449 12224 463125 Hans         Alert 4(1) Fair/strong (i. p.)
20110330 Wed 1450-1500  9923 463125 Hans         4(2) Strong
20110330 Wed 1500-1508  9105 463125 Hans, RNGB   4(3) Strong
20110330 Wed 1510-1513 13517 463125 Hans, RNGB   4(4) Fair
20110401 Fri 0830-0832 14650 215346 Hans         Strong
20110401 Fri 0832-0840 13961 216354 Hans         Weak/fair
20110401 Fri 1014-1021 14824 625413 Peter        Fair (NO), S3-7 good (UK)
20110401 Fri 1022-1024 14501 361245 Peter, Hans Fair/strong (NO), S9+ (UK)
20110401 Fri 1032-1034 14871 156234 Peter        S3-5, but with heavy QRM
20110401 Fri ca. 1045 12300 1--5-- Hans         Weak X06b (only some secs)
20110401 Fri ca. 1045 14300 1--5-- Hans         Fair X06b (only some secs)
20110401 Fri 1245      18245 231654 Hans         Weak shortie (30secs) w/ rare scale
20110401 Fri 1342-1347 14871 156234 Peter, Dave Good
20110401 Fri 1413-1427 14650 215346 Peter        Strong
20110401 Fri 1503-1506  9300 21--65 Hans         X06b - carrier on and off during TX
20110401 Fri 1902-1908 ?9235 156234 Peter        Good freq (auto recorded)
20110401 Fri 2004-2008  7527 164532 Danix/PL     Monitored i. p.
20110403 Sun 1638       8123 1--6-- Hans         Very strong X06b, heard for 2 secs!
20110404 Mon 0725-0729 10161 165324 Peter        S4 with carrier over
20110404 Mon 1540-1542 12199 532614 Hans         Strong
20110404 Mon 1552-1602 13961 216354 Hans         Weak, QSB3
20110404 Mon 1608-1611  9076 215346 Hans         Strong
20110405 Tue 0730-0815 12300 1--6-- Hans         Weak
20110405 Tue 0815       9300 1--6-- Hans         Strong
20110405 Tue 0929-0936 14812 246531 Peter        Alert 2(1) Fair
20110405 Tue 0937-0941 17421 246531 Peter        2(2) Better than above
20110406 Wed 0725-0731 17445 362154 Eddy/AU
20110406 Wed 1018-1021 18346 214356 Peter        Good
20110408 Fri 0759-0815 12213 615243 Hans, Peter Alert3(1) Fair/strong (NO), S6 (UK)
20110408 Fri 0826-0830 11556 615243 Peter,Hans      3(2) S5 (UK), weak (NO)
20110408 Fri 0832-0838 14863 615243 Hans, Peter 3(3) Weak (NO), S2-3 (UK)
20110408 Fri 0841-0949 11300 6----- Peter        X06b with single tone (S2)
20110408 Fri 0839-0848 12300 6----- Hans         Parallel TX to 11300 kHz
20110408 Fri 1018-1021 10653 356412 Peter        S7 with fading
20110408 Fri 1025-1032 19611 256134 Peter        S7-9
20110410 Sun 1039-1041 16058 261453 Wolfgang     Very rare scale on new freq!
20110411 Mon 0729-0833  8500 1--5-- Hans         X06b, weak start, then fair/strong
20110411 Mon 0920-0925 14300 5--234 Leif, Mike  X06b with S5
20110411 Mon 0943-0944 13200 1--5-- Peter        X06b, too weak to get AM readings
20110411 Mon 0951-0953 12100 1--5-- Peter        Weak X06b
20110411 Mon 0952-0957 13517 463125 Hans, Peter Weak/fair (NO), strong (UK)
20110411 Mon 1302      15656 364152 Hans         Very weak shortie (only 15 secs)
20110411 Mon 1315-1323 12224 463125 Peter        Alert 3(1) Good
20110411 Mon 1327-1336  9923 463125 Hans,LU5EMM 3(2) V.weak/weak (NO), low&QRM (AR)
20110411 Mon 1334-1335 13517 463125 Hans         3(3) Fair
20110412 Tue 1000-1005 11025 612534 Peter        Alert 2(1) Some "start/stop" errors
20110412 Tue 1011      12100 612534 Peter        2(2) Fair shortie (15 secs)
20110413 Wed 0746-0750 16045 435621 Peter        Fair
20110413 Wed 0807-0810 10814 412356 Peter        Alert 2(1) Good with CROWD36 over
20110413 Wed 0811-0813 11483 412356 Peter        2(2) Good
20110414 Thu 0741-0743  9388 561243 Peter        Good
20110414 Thu 0940      13506 164531 Peter        Shortie (only 10 secs), good
20110414 Thu 1517-1519  7545 564213 Peter        Good
20110414 Thu 1605-1612 14871 156234 Peter        Fair to weak
20110415 Fri 0638      14871 156234 Eddy/AU
20110418 Mon 0705-0749 10500 2--3--RNGB          X06b (i. P.)
20110418 Mon 0816-0848 12500 2--3-- Peter        X06b with S9+ in AM
20110418 Mon 1149-1151 12300 5--6-- Peter        X06b (this time caught in USB)
20110419 Tue 0819-0821  9450 165423 RNGB         Monitored i. p.
20110420 Wed 1933-1940  8131 164532 FrankE2Kde   Monitored i. p.
20110421 Thu 1803-1804  8105 314265 Frank        Monitored i. p.
20110425 Mon 0929      10372 463125 Peter
20110426 Tue 1348-1352 14871 156234 Peter        Weak
20110427 Wed 0736-0738  8104 412356 Hans         Fair
20110427 Wed 0817-0820 13419 465132 Peter        Very strong & bang-on freq with AM
20110427 Wed 0853      16116 134265 Peter        Weak shortie
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20110427 Wed 1019-1043 10800 1-—4-- Hans        X06b, fair/strong (i. p.)
20110428 Thu 1413-1416 14650 215346 Hans        Alert 2(1) Weak to strong
20110428 Thu 1418-1426 13979 215346 Hans        2(2) Strong, minor QSB
20110428 Thu 1525       17175        Gary/UK     Shortie (too short to ID the scale)
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MINSA = Much Interesting Nice Stuff again! Especially the X06b signals are most interesting and let expect more. Thanks a lot to all members of the X06 team and the busy supporters in the past weeks.

For now I say as usual "Auf Wiedersehen" and "Good-bye"

Jochen Schäfer, KopfE2Kde and X06 Teamkopf – also via Skype; please contact „NumbersKopf".

VOICE STATIONS

As stated in the last newsletter setting up for auto recording needs some forethought and planning.

The image, left, shows PLdn's set up in a Norwich Hotel on the occasion of a double birthday celebration.

When this was taken E06 0030z 24/04 had already begun and was retuned to allow a quality recording to be made.

The four 'alarm' settings were set for E06 at 0030 and 0130z on Sat and Sunday and XPA2 0200 & 0240z daily.

Good intercept on Monday 25th April too – all using the G3's telescopic antenna.

E06 [1A]

PoSW's logs:

First + Third Thursdays in the Month 2030 UTC Schedule:-
3-Mar-11, 5,186 kHz:- started approx. 40 seconds before the half-hour. Calling "891", DK/GC "123 123 15 15". Seasonal change of frequency from 4,836 kHz of the winter months. Strong signal but with the distortion noted in the past.

17-Mar-11, 5,186 kHz, "891" and "123 123 15 15" again, still with the "rasping and tearing" distortion.

7-Apr-11, 5,186 kHz, started approx. 45 seconds late, call "891", DK/GC "356 356 15 15".
Good signal, good audio, none of the rasping noises which usually accompany these E06 transmissions.

Friday 2130 UTC Schedule:-
4-Mar-11, 5,197 kHz, call "634", DK/GC "124 124 15 15" with the usual rasping noises.

18-Mar-11, 5,197 kHz, "634" and "124 124 15 15" again.

8-Apr-11, 5,197 kHz, call "634", DK/GC "105 105 15 15". S9 signal with the rasping noises not noted on yesterday's 2030z sending.

22-Apr-11, 5,197 kHz, "634" and "105 105 15 15" again, good signal with no distortion on the speech.

RNGB's E06 log March/April

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Thurs    03/03   20.29   5186    '891' 123 15 23456 12345 32132 43562 13678.....54678
Friday   04/03   21.30   5197    '634' 124 15 23421 54632 78906 54356 24314.....09898
Weds     09/03   19.20   4523    '829' 00000
Thurs    10/03   07.00   15850   '864' 531 87 79133 34814 77458 00535 64152
Friday   11/03   06.00   13890   '864' 531 87 79133 34814 77458 00535 64152
Sat      12/03   02.30   4923    '759' 601 32 68788 90471 81967 81837.....97927
Sun      13/03   12.20   6793    '829' 00000
Thurs    24/03   07.00   15850   '864' 00000
Sun      27/03   02.30   4923    '759' 216 34 34685 49567 54064 37998 64030.....98770

Sun      03/04   00.30   6918    '759' 406 31 28633 11344 59678 96402 31488.....90353
Thurs    07/04   20.30   5186    '891' 356 15 12356 86743 90879 45566 23410.....37128
Fri      08/04   21.30   5197    '634' 105 15 76587 99765 23405 05641 78435.....85301
Sat      09/04   00.30   6918    '759' 821 36 38970 38692 31375 29056 33228.....70003
Weds     13/04   19.20   4523    '829' 00000
Thurs    14/04   05.00   13530   '951' 842 163 65110 90018 43512 97996.....92065
Thurs    14/04   06.00   14910   '951' 842 163 65110 90018 43512 97996.....92065
Sat      16/04   00.30   6918    '759' 248 30 43150 35014 74977 06468 89473.....53575
Thurs    21/04   06.00   14910   '951' 460 137 37321 46942 17810 53323 60972.....
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5

Other's E06 logs:

March 2011

4923kHz 0230z	05/03[759 284 31 20599 ... 18222 284 31 00000(f)]Fair, QRM2		PLdn	SAT
0230z	06/03[759 284 31 20599 ... 18222 284 31 00000(f)]0240z Fair	(9m37s)	PLdn	SUN
0230z	13/03[759 601 32 68788 ... 97927 601 32 00000(f)] 0140z, Strong/fair, QSB2	(9m47s)	PLdn, gil	SUN
0230z	19/03[759 208 31 04835 … 90710 208 31 00000(f)] 0240z Strong	(10m27s)	PLdn	SAT
0230z	20/03[759 208 31 04835 … 90710 208 31 00000(f)] 0240z Strong	(10m27s)	PLdn	SUN
0230z	26/03[759 216 34 34685 … 98770 216 34 00000(f)] 0240z Very strong	(10m02s)	PLdn	SAT
0230z	27/03[759 216 34 34685 … 98770 216 34 00000(f)] 0240z Very strong	(10m02s)	PLdn	SUN
5186kHz 2030z	17/03[891 123 15 23456 12345 32132 43562 13678 87906 45678			
	34532 34567 56432 34532 35675 43564 21342 54678] 2037z Fair		Hans	THU
5197kHz 2130z	04/03[634 124 15 23421 … 09898 124 15 00000(s)]2137z Fair, QRM2	(6m43s)	PLdn	FRI
2130z	18/03[634 124 15 23421 … 09898 124 15 00000(s)] 2138z Strong	(7m41s)	PLdn	FRI
5879kHz 0130z	13/03[759 601 32 68788 … 97927 601 32 00000(f)] 0140z, Weak readable	(9m47s)	PLdn, gil	SUN
0130z	19/03[759 208 31 04835 … 90710 208 31 00000(f)] 0140z Strong	(10m27s)	PLdn	SAT
0130z	27/03[759 216 34 34685 … 98770 216 34 00000(f)] 0140z Very strong	(10m02s)	DanAr, PLdn	SUN
5884kHz 0130z	06/03[759 284 31 20599 … 18222 284 31 00000(f)]0140z Weak, readable	(9m37s)	PLdn	SUN
5886kHz 0130z	20/03[759 208 31 04835 … 90710 208 31 00000(f)] 0140z Strong	(10m27s)	PLdn	SUN
16302kHz 1241z	23/03[657]		PS	WED

April 2011

5133kHz 0130z	02/04[759 406 31 28633 11344 ....90353 406 31 00000 and then 75]		DanAr, PLdn	SAT
0130z	03/04[759 406 31 28633 … 90353 406 31 00000] 0140z Strong	(9m36s)	Hans, PLdn	SUN
0130z	08/04[759 821 36 38970 … 70003 821 36 00000(f)]0140z Very strong	(10m27s)	PLdn	SAT
0130z	10/04[759 821 36 38970 … 70003 821 36 00000(f)]0140z Strong, QRM2	(10m27s)	PLdn	SUN
0130z	16/04[759 248 30 43150 … 53575 248 30 00000(f)] 0139z Strong	(9m23s)	PLdn	SAT
0130z	17/04[759 248 30 43150 … 53575 248 30 00000(f)] 0139z Strong	(9m23s)	PLdn	SUN
0130z	23/04[759 681 32 67212 … 25478 681 32 00000(f)] 0140z Very strong	(9ms45s)	PLdn	SAT
0130z	24/04[759 681 32 67212 58900 72892 66554........158876 25478 681 32 00000]		DanAr, PLdn	SUN
0130z	30/04[759 306 48 39848 … 46943 306 48 00000(f)] 0142z Strong	(12m26s)	PLdn	SAT
5186kHz 2030z	07/04[891 356 15 12356 … 37128 356 15 00000(s)] 2137z Very Strong	(6m43s)	PLdn	THU
5197kHz 2130z	08/04[634 105 15 76587 … 85301 105 15 00000(s)]2138z Strong	(7m41s)	PLdn	FRI
2130z	22/04[634 105 15 76587 … 85301 105 15 00000(s)]2138z Strong	(7m41s)	PLdn	FRI
6793kHz 1220z	17/04[829 00000] Weak		Hans	SUN
6918kHz 0030z	02/04[759 406 31 28633 … 90353 406 31 00000] 0040z Strong, QRM2	(9m36s)	PLdn	SAT
0030z	03/04[759 406 31 28633 … 90353 406 31 00000] 0040z Strong	(9m36s)	Hans, PLdn	SUN
0030z	08/04[759 821 36 38970 … 70003 821 36 00000(f)]0040z Strong, QRM2	(10m27s)	PLdn	SAT
0030z	10/04[759 821 36 38970 … 70003 821 36 00000(f)]0040z Strong	(10m27s)	PLdn	SUN
0030z	16/04[759 248 30 43150 … 53575 248 30 00000(f)] 0039z Strong	(9m23s)	DanAr,PLdn	SAT
0030z	17/04[759 248 30 43150 … 53575 248 30 00000(f)] 0039z Strong	(9m23s)	PLdn	SUN
0030z	23/04[759 681 32 67212 … 25478 681 32 00000(f)] 0040z Very strong	(9ms45s)	PLdn	SAT
0030z	30/04[759 306 48 39848 … 46943 306 48 00000(f)] 0042z Strong	(12m26s)	PLdn	SAT
6925kHz 0030z	24/04[759 681 32 67212 … 25478 681 32 00000(f)] 0040z Fair, QSB3 . '759 759' sent on 6918kHz 0030z			
		(9ms45s)	PLdn	SUN
7409kHz 1125z	17/04 with counts. Strong signal, carrier off 1129z		Hans	SUN
8116kHz 0508z	03/04[English O/M reading message with repeated 5F groups ending 368 368 50 50 00000]		PPA	SUN
13530kHz 0500z	21/04[951 460 137 37321 46942 .... 02769] 0527z Weak to Strong (QSB3)		Hans	THU
	14910kHz tried one hour later, heard a weak carrier but no voice.			

Those who monitored the 5133kHz 0130z 30/04 commented on the off freq test tone; Spectre3000 [via Spooks and pvt mail to PLdn] commented on the break in the word 'seven' on the 759 sequence. Yours truly didn't hear it, no idea why, but here is an audiogram taken from Spectre3000's sound sample [with permission – tnx]:
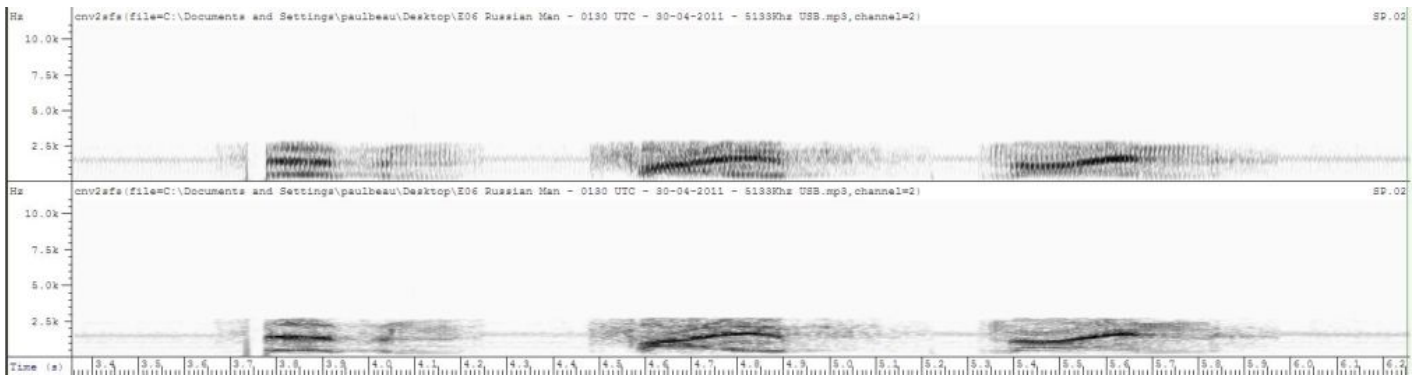
E07 [1B]

PoSW's logs:

Sunday + Wednesday Schedule:-
9-Mar-11, Wednesday:- 1820 UTC, 9,068 kHz, "906 906 906 000", reasonable audio.

13-Mar-11, Sunday:- 1800 UTC, 9,923 kHz, "906 906 906 000". low audio, carrier QRT 1802 and 28s UTC.
1820 UTC, 9,068 kHz, second sending, very low mod.

16-Mar-11, Wednesday:- 1820 UTC, 9,068 kHz, "906 906 906 1", DK/GC "554 45" x 2, second sending of a "full message" transmission. S9 signal with reasonable audio.
1840 UTC, 7,697 kHz, third sending, same frequencies as in march of past few years.

23-Mar-11, Wednesday:- 1800 UTC, 9,923 kHz, "906 906 906 000".

3-Apr-11, Sunday:- 1720 UTC, 10,703 kHz, "171 171 171 1", DK/GC "289 79" x 2.
Second sending, has shifted by one hour with the start of summertime so still starts at 6 pm UK time.
1740 UTC, 8,123 kHz, third sending.

10 Apr-11, Sunday:- 1700 UTC, 12,123 kHz, "171 171 171 1", DK/GC "241 77" x 2.
S9 signal. Reasonable mod, slight background buzz.
1720 UTC, 10,703 kHz, second sending, an unusually strong S9+ signal.
1740 UTC, 8,123 kHz, third sending, peaking over S9 with deep QSB.

17-Apr-11, Sunday:- 1700 UTC, 12,123 kHz, "171 171 171 1", DK/GC "782 70" x 2. S9 signal. Reasonable mod.
1720 UTC, 10,703 kHz and 1740 UTC, 8,123 kHz, repeats.

24-Apr-11, Sunday:- 1720 UTC, 10,703 kHz, "171 171 171 1", DK/GC "703 44" x 2.
Strong signal with reasonable mod.
1740 UTC, 8,123 kHz, third sending, very strong signal.

Monday + Wednesday Schedule:-
7-Mar-11, Monday:- 2020 UTC, 7,873 kHz, "288 288 288 000", low mod but readable.
Frequencies in march last year were 9,273 + 7,873 + 6,873 kHz.

9-Mar-11, Wednesday:- 2000 UTC, 9,273 kHz, weak signal, local QRM, unreadable. Carrier
QRT just before 2002 and 30s UTC.

Thursday Schedule:-
3-Mar-11:- 2110 UTC, 7,516 kHz, "584 584 584 000". Strong BC station on 7,520.
2130 UTC, 5,836 kHz, second sending, interference from a broadcaster on 5,840.

10-Mar-11:- 2110 UTC, 7,516 kHz and 2130 UTC, 5,836 kHz, both with broadcast interference, "584 584 584 000".

17-Mar-11:- 2110 UTC, 7,516 kHz, "584 584 584 000".

Wednesday E07a SSB Schedule:-
9-Mar-11:- 2100 UTC, 5,864 kHz, "815 815 815 000". Close to a strong BC station inside the 49 metre band.
2120 UTC, 5,164 kHz, second sending

16-Mar-11:- 2100 UTC, 5,864 kHz and 2120 UTC, 5,164 kHz, both strong signals, "815 815 815 000".

23-Mar-11:- 2100 UTC, 5,864 kHz, "815 815 815 1 69996" - calling up for a "full message". DK/GC "700 45" x 2.
2120 UTC, 5,164 kHz, second sending.
2140 UTC, 4,564 kHz, third sending with strong "XJT" close by.

20-Apr-11:- 2000 UTC, 8,173 kHz, "147 147 147 000".
2020 UTC, 7,473 kHz, second sending. Now on summertime frequency schedule and has shifted by one hour UTC so still starts at 9 pm UK time.

RNGB's E07 log March/April

Tues	01/03	08.00	6893	'841' 000
Weds	02/03	18.00	9923	'906' 000
Thurs	03/03	08.00	6893	'841' 000
Sun	06/03	18.00	9923	'906' 000
Tues	08/03	08.00	6893	'841' 000
Weds	09/03	18.00	9923	'906' 000
Thurs	10/03	08.00	6893	'841' 000
Thurs	10/03	21.30	5836	'584' 000
Weds	23/03	20.20	7873	'288' 000
Thurs	24/03	08.00	6893	'841' 000
Weds	30/03	21.00	5864	'815' 000
Thurs	31/03	21.10	7516	'584' 749 90 10950 87029 25918 77403 82834.....85843
Weds	06/04	20.00	8173	'147' 000
Weds	13/04	20.00	8173	'147' 000
Thurs	14/04	07.00	6941	'902' 000
Thurs	14/04	20.10	9387	'358' 000
Sun	17/04	17.00	12123	'171' 782 70 72553 16199 09279 34056.....61241
Sun	17/04	17.20	10703	'171' 782 70 72553 16199 09279 34056.....61241
Tues	19/04	07.20	8041	'902' 000

Other's logs:

March 2011

Freq	Time	Log	Duration	Logger	Day
4497kHz	2150z	24/03[584 1 749 90 10950 ... 85843 000 000]2202z Strong	(11m31s)	PLdn	THU
	2150z	31/03[584 1 749 90 10950 …85843 000 000]2202z Strong	(11m32s)	PLdn, FN	THU
5836kHz	2130z	03/03[584 000] Very strong signal, weak noise		FR	THU
	2130z	10/03[584 000] Strong signal		FR	THU
	2130z	17/03[584 000]2132z Strong, BCQRM2/3	(2m13s)	PLdn, FN	THU
	2130z	31/03[584 1 749 90 10950 … 85843 000 000]2142z Strong	(11m32s)	PLdn, FN	THU
6893kHz	0800z	10/03[QRM Dig Sta]		FN	THU
	0800z	17/03[QRM5 dig. Sta]		FN	THU
7493kHz	0820z	01/03[841 000] Strong		Hans	TUE
	0820z	03/03[841 000] Fair/Strong Weak audio		Hans	THU
	0820z	10/03[841 841 841 000]		FN	THU
	0820z	17/03[841 841 841 000]		FN	THU
7516kHz	2110z	03/03[584 000] Strong signal, weak noise		FR	THU
	2110z	10/03 [584 000] Very strong signal,QSB		FR	THU
	2110z	17/03[584 000] Strong signal		FR	THU
	2110z	31/03[584 1 749 90 10950]		FN	THU
7697kHz	1840z	16/03[906 10554 45 70357 … 72941 000 000]1847z Weak, readable	(7m02s)	PLdn, HJH	WED
	1840z	20/03[906 10554 45 70357 … 72941 000 000]1847z Weak, readable	(7m02s)	PLdn	SUN
	1840z	27/03[906 1 611 41 55655 … 4(7)014 000 000]1849z Fair, started late, QRM2	(6m46s)	PLdn	SUN
	1840z	30/03[906 1 611 41 55655 … 46014 000 000]1846z Strong	(6m40s)	PLdn	WED
7873kHz	2020z	28/03[288 000]		E	WED
	2020z	28/03[288 000]2022z Fair	(2m13s)	PLdn	MON
	2020z	30/03[288 288 288 000]		FN	WED
9068kHz	1820z	02/03[906 906 906 000]		FN, PLdn	WED
	1820z	06/03[906 000] Strong signal, QRM		FR	SUN
	1820z	09/03[906 906 906 000]		FN	WED
	1820z	13/03[906 000] Strong signal, QRM		FR, FN	SUN
	1820z	23/03[906 000] 1822z Strong	(2m13s)	HJH,PLdn	WED
	1820z	30/03[906 1 611 41 55655 … 46014 000 000]1826z Fair	(6m40s)	PLdn	WED
9273kHz	2000z	28/03[288 000]2002z Weak	(2m13s)	PLdn	MON
	2000z	30/03[288 288 288 000]		FN	WED
9923kHz	1800z	02/03[906 906 906 000]		FN	WED
	1800z	06/03 [906 000] Strong signal, QRM		FR	SUN
	1800z	09/03[906 906 906 000]		FN	WED
	1800z	13/03[906 000] Strong signal, QRM		FR, FN	SUN
	1800z	23/03[906 000] Fair, BCQRM3	(2m13s)	HJH, PLdn	WED
	1800z	27/03[906...] rest of message unworkable due to Godsquad BC QRM		HJH	SUN
10173kHz	1635z	25/03/11[i/p ... 000 000] fair signal 3222 usb		GN	FRI

April 2011:

6941kHz	0700z	05/04[902 902 902 000]		FN	TUE
	0700z	19/04[902 000] 0702z Strong (Very weak audio)		Hans	TUE
	0700z	21/04[902 902 902 000]		FN, Hans	THU
7526kHz	2030z	07/04[358 358 358] BCQRM hardly audible		FN	THU
	2030z	14/04[358 358 358 000]		FN	THU
	2030z	21/04[358 1 752 79 48231 ... 01755 000 000] 2040z Strong		AEC	THU
8041kHz	0720z	05/04[902 902 902 000]		FN	TUE
	0720z	21/04[902 902 902 000]		FN	THU
8123kHz	1740z	03/04[171 1 289 79 53770 … 07198 000 000]Fair audio, strong carrier.	(10m31s)	Hans,PLdn	SUN
	1740z	06/04[171 1 289 79 53770 … 07195 000 000] Strong	(10m28s)	FN, AEC	WED
	1740z	10/04[171 1 241 77 26267 ... 73952 000 000] 1750z Weak/Fair		AEC, Baris	SUN
	1740z	13/04[171 1 241 77 26267 ... 73952 000 000] 1710z Fair , QRM2	(10m14s)	PLdn	WED
	1740z	17/04[171 1 782 70 72553 … 61241 000 000]Strong carrier, weak audio	(9m38s)	Hans,PLdn	SUN
	1740z	20/04[171 1 782 70 72553 … 61241 000 000]Weak, QRN3	(9m38s)	Hans,PLdn	WED
	1740z	24/04[171 1 703 44 98450]		FN	SUN
	1740z	27/04[171 703 44 98450 … 95703 000 000]1727z Fair	(6m59s)	PLdn	WED
9387kHz	2010z	07/04[358 358 358] BCQRM hardly audible		FN	THU
	2010z	14/04[358 358 358 000]		FN	THU
10703kHz	1720z	03/04[171 1 289 79 53770 … 07198 000 000] Fair, QRN3	(10m31s)	PLdn, Hans	SUN
	1720z	06/04[171 1 289 79 53770 … 07195 000 000] Strong	(10m28s)	FN, AEC	WED
	1720z	10/04[171 1 241 77 26267 ... 73952 000 000] 1730z Weak/Fair QRM3		AEC	SUN
	1720z	13/04[171 1 241 77 26267 ... 73952 000 000] 1710z Fair	(10m14s)	PLdn	WED
	1720z	17/04[171 1 782 70 72553 … 61241 000 000]Fair	(9m38s)	PLdn	SUN
	1720z	20/04[171 1 782 70 72553 … 61241 000 000]Fair, QRM3/4	(9m38s)	HJH, PLdn	WED
	1720z	24/04[171 1 703 44 98450]		FN	SUN
10708kHz	1920z	04/04[172 000] 1923z Strong		AEC, FN	MON
	1920z	06/04[172 000] Strong carrier, fair audio	(2m13s)	PLdn	WED
	1920z	11/04[172 000] Strong		Hans	MON
	1920z	13/04 Carrier only		PLdn	WED
	1920z	18/04 [172 000]Fair	(2m13s)	PLdn	MON
	1920z	25/04[172 000] Strong carrier, weak audio	(2m13s)	PLdn	MON
	1920z	27/04[172 000]Strong (2m13s) PLdn WED			
12108kHz	1900z	04/04[172 000] 1903z Weak/Fair		AEC, FN	MON
	1900z	06/04[172 000] Strong carrier, very weak audio	(2m13s)	FN, AEC	WED
	1900z	11/04[172 000] Strong		Hans	MON
	1900z	13/04 QRM5		PLdn	WED
	1900z	18/04[172 000]Fair	(2m13s)	PLdn	MON
	1900z	20/04[172 000] Strong		Hans	WED
	1900z	25/04 Strong carrier only, dropping at 1905z to rise again for ~2mins	(4m07s)	PLdn	MON
	1900z	27/04[172 000]Fair, QRM2	(2m13s)	PLdn	WED
12123kHz	1700z	03/04[171 1 289 79 53770 … 07198 000 000] Strong	(10m31s)	PLdn, Hans	SUN
	1700z	06/04[171 1 289 79 53770 … 07195 000 000] Strong	(10m28s)	FN, AEC	WED
	1700z	10/04[171 1 241 77 26267 ... 73952 000 000] 1710z Fair		AEC	SUN
	1700z	13/04[171 1 241 77 26267 ... 73952 000 000] 1710z Strong , QRM2	(10m14s)	PLdn	WED
	1700z	17/04[171 1 782 70 72553 … 61241 000 000]Strong,	(9m38s)	PLdn	SUN
	1700z	20/04[171 1 782 70 72553 … 61241 000 000]Strong,	(9m38s)	PLdn	WED
	1700z	24/04[171 1 703 44 98450]		FN	SUN

E07a

"411 411 411 000"

Spectral image from E07a transmission at 0450z 14th April, 2011 received on the WinRADIO G31DDC 'Excalibur' by PLdn.
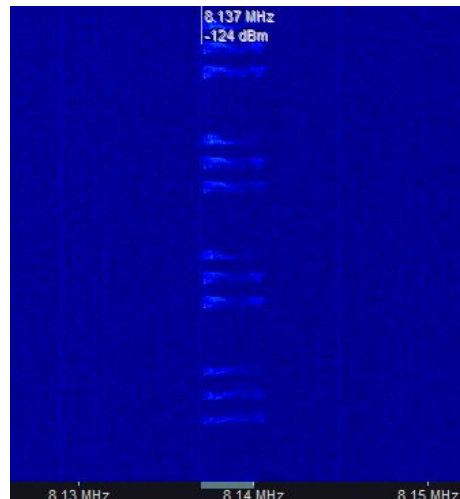
March 2011

4564kHz	2140z	02/03[815 1 69996 700 45 10314 … 24151 000 000] 2146z Strong	(6m19s)	PLdn	WED
	2140z	23/03[815 1 69996 700 45 10314 … 24151 000 000] 2146z Strong, XJTQRM2	(6m19s)	PLdn, E	WED
5146kHz	0530z	02/03[188 1 69996 700 45 10314 … 24151 000 000] 0536z Strong	(6m19s)	Hans, PLdn	WED
	0530z	09/03[815 815 815 000]		FN, PLdn, Hans	WED
	0530z	17/03[188 000]Strong	(2m14s)	PLdn	THU
	0530z	24/03[188 1 69996 700 45 10314 … 24151 000 000] 0536z Strong	(6m19s)	PLdn	THU
	0530z	31/03[188 000] 0532z Strong	(2m13s)	PLdn	THU
5164kHz	2120z	02/03[815 1 69996 700 45 10314 … 24151 000 000] 2126z Strong	(6m19s)	PLdn	WED
	2120z	09/03[815 815 815 000]		FN, PLdn	WED
	2120z	16/03[815 000] Strong	(2m14s)	PLdn	WED
	2120z	23/03[815 1 69996 700 45 10314 … 24151 000 000] 2126z Strong	(6m19s)	PLdn	WED
	2120z	30/03[815 000] 2122z Strong	(2m13s)	PLdn	WED
5846kHz	0550z	02/03[188 1 69996 700 45 10314 … 24151 000 000] 0556z Strong	(6m19s)	PLdn	WED
	0550z	09/03[188 188 188 000]		FN, PLdn	WED
	0550z	17/03[188 000]Strong (2m14s)		PLdn	THU
	0550z	24/03[188 1 69996 700 45 10314 … 24151 000 000] 0556z Strong	(6m19s)	PLdn	THU
	0550z	31/03[188 000] 0552z Strong	(2m13s)	PLdn	THU
5864kHz	2100z	02/03[815 1 69996 700 45 10314 … 24151 000 000] 2106z Strong	(6m19s)	PLdn,FN	WED
	2100z	16/03[815 000] Strong	(2m14s)	PLdn,GD	WED
	2100z	23/03[815 1 69996 700 45 10314 … 24151 000 000] 2106z Strong	(6m19s)	PLdn	WED
	2100z	30/03[815 000] 2102z Strong	(2m13s)	PLdn	WED
6846kHz	0610z	02/03[188 1 69996 700 45 10314 … 24151 000 000] 0616z Strong	(6m19s)	PLdn	WED
	0610z	24/03[188 1 69996 700 45 10314 … 24151 000 000] 0616z Strong	(6m19s)	PLdn	THU

April 2011

7437kHz	0430z	07/04[411 000] Strong	(2m13s)	PLdn	THU
	0430z	14/04[411 000] Fair	(2m13s)	PLdn	THU
	0430z	21/04[411 000] Strong	(2m13s)	FN,PLdn	THU
	0430z	28/04[411 000] Strong	(2m13s)	PLdn	THU
7473kHz	2020z	06/04[147 000] Strong	(2m13s)	HJH, FN, AEC	WED
	2020z	13/04[147 000] Strong, HETQRM2	(2m13s)	HJH,PLdn	WED
	2020z	20/04[147 000] Strong, HETBCQRM2	(2m13s)	PLdn	WED
	2020z	27/04[147 000] Very strong, BCQRM2	(2m13s)	PLdn	WED
8137kHz	0450z	07/04[411 000] Strong	(2m13s)	PLdn	THU
	0450z	14/04[411 000] Fair	(2m13s)	PLdn	THU
	0450z	21/04[411 000] Strong	(2m13s)	FN,PLdn	THU
	0450z	28/04[411 000] Strong	(2m13s)	PLdn	THU
8173kHz	2000z	06/04[147 000] Strong	(2m13s)	FN, AEC	WED
	2000z	13/04[147 000] Strong	(2m13s)	HJH, PLdn	WED
	2000z	20/04[147 000] Strong	(2m13s)	PLdn	WED
	2000z	27/04[147 000]Strong, XJTQRM2	(2m13s)	PLdn	WED

E10 - One Last Desk Report

As most of you will be aware the last log of E10 was from the early hours of March 1st when at 01:30 station YHF passed a 21 group message starting MFTCW. Since then nothing has been heard of E10 and since nearly two months has passed we have to assume that E10 in its analogue HF form is no more.

Many people were surprised by the timing of E10's demise vanishing as she did the period of the biggest upheaval in the Middle East since the birth of Israel. However many of the groups regular E10 monitors had noticed with some surprise that the station didn't appear to react to earlier upheavals in Egypt in any way. In the past during events in the Middle East E10 has suddenly increased the number of messages it sends often activating time slots that have been inactive for years to carry some of the new messages. When this didn't happen there was some private correspondence between some of the groups E10 watchers wondering if we were about to see yet another stage in E10s slow decline.

Before I describe the stages in this decline lets go back into E10 history. The first logs I have seen for E10 are in books from the early 1980's however I have also seen mention of logs of what sound like E10 from the 1970's. Sadly before the original Enigma group numbers monitoring wasn't as organised as it is today and since there were no "official" station designators so stations were frequently confused or not recognised. Looking back at the logs from the 1980's and 90's there were a few different E10 stations but it seems that as one station vanished another appeared.

The first stage in the decline began when the E10a "special strings" vanished. These consisted of the E10 voice repeating its callsign followed by a string of letters and numbers. The first sign of something happening was on March 15th 2006 when E10 sent her one and only plain text message ..

KPAG1O2O3D4N5I6G7H8T

The famous GOODNIGHT string. This wasn't the last special string however that honour is reserved for one sent by MIW on 9th May 2006. The E10a messages did continue but only carrying traffic consisting of a single letter.

Next in July 2007 E10 stations MIW , KPA , VLB , SYN and CIO vanished from the airwaves. These stations were oddities in that in the past they either carried standard E10 traffic or special strings however they had been reduced to sending all null messages except for what appeared to be on special occasions.

Then in November 2007 the group received its last report of E10 station JSR. This had been a standard E10 station although it was noticeable that its traffic levels had been falling. This was followed in July 2008 by the last report of E10 station FTJ another standard E10 station which again had seen falling traffic levels. One note of interest about FTJ was that during March 2008 one of the messages it had been carrying was G73 message first group BOMZH. Then in July 2009 the very same message was carried by EZI. This is as far as I can gather the only time the same message has been sent by different E10 stations. It is a kind of proof that some of the recipients of FTJ messages had moved on to other E10 stations. Possibly FTJ and JSR were taken off air due to falling traffic levels.

March 2010 saw a huge change to E10 operations. Before this date most E10 stations had transmitted during each 30 minute time slot 24 hours a day but from now on (apart from in a few time slots such as the 19:30 one) only one station transmitted during each slot. Then as previously mentioned March 2011 saw the final E10 log. You will notice that a lot of things seem to happen to E10 during March although that may just be a coincidence.

My particular theory for the demise of E10 was that it was slowly losing "customers" due to modern technology. Remember E10 probably wasn't just sending messages to agents in the field but perhaps also to military special forces and may be even as a back up communications system to Israeli embassies. The E10a special strings appear to have been aimed at a very specific customer who must have had an alternative communications system by summer 2006.
After that it appears we began to see a slow migration of the remaining users over to the new communication system. As the customers left we lost JSR then FTJ followed by many slots in March 2010 until all the customers had gone in March 2011 and E10 could then leave the airwaves.

The question on everyones lips is what has replaced E10 ? I can see four possible alternatives ..

1) Satellite - Israel has a small military satellite capability and transmitting messages from them wouldn't be technically very hard. They may also be allowed to use the US military fleet of satellites or could simply pay for bandwidth on commercial satellites such as Inmarsat or Iridium. Satellite receivers can be made very small and don't need a large antenna any more.

2) VHF/UHF or microwave transmissions from an aircraft. An orbiting communications relay aircraft high above Israel could send messages to much of the Middle East. This isn't a new method of espionage communications having been used by German Intelligence in WW2 to communicate with the stay behind agents in liberated Paris during 1944 and 45 from specially modified Junker 88 aircraft. The one drawback to this that agents in say London or Paris would be out of range.

3) Internet. There are few countries that don't now have access to the Internet. It may be heavily monitored and censored in countries such as Iran and Syria but it would be easy to send encrypted messages via innocuous looking websites.

4) Digital HF. As most people these days have a PC or smart phone it would be easy to give agents a special decoding application that decodes digital data sent to them via HF. Cuban Intelligence seems to have been a world leader in this field with its SK01 transmissions or perhaps the fact that Cuban intelligence has a pretty small budget and has had to use adapted ham radio technology means they are the only such signals found by the amateur numbers hunters so far.

So that's it my last E10 desk report its been fun writing them and I hope you have enjoyed reading them. This wouldn't however be my last column for the NL as the E2K management have asked me to take on another desk and which I have agreed to do.

Ian Wraith (April 2011)
P.S I lastly I would like to thank everyone who sent E10 logs over the last few years. Without your Patience and effort I wouldn't have had much to write about.

A very big thanks to IanW for his input with this station and his willingness to take over the E10 desk at the drop of a hat when his predecasor was taken ill and no longer able to continue. Thanks a lot Ian, a difficult job, done exceedingly well……. Paul and Mike on behalf of our readers.

E11[III]

March/April:

4909kHz	1445z	02/03[287/00] Fair		RNGB	WED
	0900z	03/03[248/00]		RNGB	THU
	0900z	05/03[248/00]		RNGB	SAT
	0900z	10/03[248/00] Fair		RNGB	THU
	0900z	12/03[248/00]		RNGB	SAT
	0900z	31/03[248/00] Fair		RNGB	THU
	0900z	14/04[248/00] Very weak		RNGB	THU
5737kHz	1240z	13/03[349/00] Fair		RNGB	SUN
6304kHz	0450z	07/03[416/00] Strong		Hans	MON
	0450z	14/03[416/00] Fair		RNGB	MON
	0450z	28/03[416/00] Strong		Hans	MON
	0450z	18/04[416/00] Out 0453z Strong	(3m22s)	PLondon	MON
	0450z	25/04[416/00] Out 0453z Very strong	(3m23s)	PLondon	MON
6433kHz	1050z	11/04[127/00] Strong		Hans	MON
	1050z	17/04[127/00] Very weak, DIGIQRM3		PLondon	SUN
	1050z	18/04[127/00] Weak, CWDATAQRM3		PLondon	MON
6814kHz	0820z	01/03[438/00]		RNGB	TUE
	0821z	03/03[438/00]		RNGB	THU
	0820z	15/03[438/00] Strong		Hans	TUE
	0820z	17/03[438/00] Strong		Hans	THU
	0820z	29/03[438/00] Fair		RNGB, GD	TUE
	0820z	05/04[438/00] Strong		Hans	TUE
	0820z	12/04[438/00]		RNGB	TUE
	0820z	19/04[438/00] Fair		RNGB	TUE
7449kHz	1045z	02/03[469/00] Strong		RNGB	WED
	1045z	09/03[469/00]		RNGB	WED
	1045z	30/03[469/00]		RNGB	WED
	1045z	05/04[469/00] Strong		Hans	TUE
	1045z	19/04[469/00] Out 1048z Fair	(3m22s)	PLondon	TUE
	1045z	20/04[469/00] Out 1048z Strong, QRN2	(3m22s)	PLondon	WED
	1045z	26/04[469/00] Out 1048z Weak		PLondon	TUE
	1045z	27/04[469/00] Strong		Hans	WED
8800kHz	0930z	02/03[270/00]		RNGB	WED
	0930z	03/03[270/00]		RNGB	THU
	0930z	09/03[270/00]		RNGB	WED
	0930z	10/03[270/00] Strong		GD, Hans	THU
	0930z	17/03[270/00] Strong		Hans	THU
	0930z	30/03[270/00]		RNGB	WED
	0930z	13/04[270/00] Fair		RNGB	WED
	0930z	14/04[270/00]		RNGB	THU
	0930z	21/04[270/00]Very weak, QRN3 – just audible		PLondon	THU
9371kHz	1730z	03/03[416/00] Good with BC QRM		RNGB	THU
	1730z	07/04[416/00] Good, some QRM		RNGB	THU
	1730z	21/04[416/00] Out 1733z Fair, QRN3	(3m22s)	PLondon, Hans	THU
	1730z	28/04[416/00] Out 1733z Strong	(3m16s)	PLondon	THU
9399kHz	0900z	14/03[534/00]		RNGB	MON
	0900z	21/03[534/00] Weak		Hans	MON
	0900z	28/03[534/00]		RNGB	MON
	0900z	30/03[534/00]		RNGB	WED
	0900z	04/04[534/00] Weak		Hans	MON
	0900z	18/04[534/00] Out 0903z Weak	(3m16s)	PLondon	MON
	0900z	27/04[534/00] Out 0903z Strong	(3m16s)	PLondon	WED
10221kHz	0710z	08/03[633/00]		RNGB	TUE
	0710z	11/03[633/00] Weak		Hans	FRI
	0710z	18/03[633/00] Fair		Hans	FRI
	0710z	22/03[633/00] Fair		Hans	TUE
	0710z	29/03[633/00] Good		RNGB, GD, Hans	TUE
	0710z	05/04[633/00] Fair		Hans	TUE
	0710z	12/04[633/00]	(3m24s)	RNGB, PLondon	TUE
	0710z	22/04[633/00] Fair		RNGB	FRI
10690kHz	0830z	07/03[649/00] Fair		Hans	MON
	0830z	10/03[649/00] Good		RNGB, GD	THU
	0830z	14/03[649/00] Good		RNGB	MON
	0830z	21/03[649/00] Fair		Hans	MON
	0830z	04/04[649/00] Weak/Fair		Hans	MON
	0830z	18/04[649/00]		RNGB	MON
	0830z	21/04[649/00] Fair		Hans	THU

10800kHz	0645z	01/03[517/00]		RNGB	TUE
	0645z	15/03[517/00] Weak		Hans	TUE
	0645z	17/03[517/00] Weak		Hans	THU
	0645z	22/03[517/00] Fair		Hans	TUE
	0645z	29/03[517/00] Fair	(3m21s)	RNGB, Hans	TUE
	0645z	31/03[517/00]		RNGB	THU
	0645z	05/04[517/00] Weak		Hans	TUE
	0645z	07/04[517/00]		RNGB	THU
	0645z	26/04[517/00] Fair		Hans	TUE
15915kHz	1155z	13/04[718/00] Strong		RNGB	WED
	1540z	17/04[228/00] Good	(3m19s)	RNGB, PLondon	SUN
	1540z	18/04[228/00] Good		RNGB	MON
	1155z	20/04[718/00] Out 1158z Weak	(3m16s)	PLondon	WED
	1155z	21/04[718/00] Strong		RNGB	THU
	1155z	27/04[718/00] Out 1158z Strong	(3m22s)	PLondon	WED
	1155z	28/04[718/00] Out 1158z Weak		PLondon	THU

E11a
March/April:

4909kHz	0900z	07/04[243/37 91642 74996…..06970] Very Weak		RNGB	THU
6814kHz	0820z	08/03[435/35 58083 50323 27152 93593 21350…..86821] Out 0829.30z		RNGB	TUE
	0820z	10/03[435/35 58083 50323 27152 93593 21350]		GD	THU
7449kHz	1045z	12/04[462/37 49986 56972 20479 62468 65696…..94866] Fair		RNGB	TUE
	1045z	13/04[462/37 49986 etc] repeat of Tuesday		RNGB	WED
8800kHz	0930z	28/04[277/30 A 20930 ….]End not heard; weak, PULSEQRM2		PLondon	THU
9371kHz	1730z	14/04[411/38 37261 23798 78783 34026 19487…..81550] Good		RNGB	THU
9399kHz	0900z	07/03[532/35 A 41864 18744 .... 24034] Out 0909z Fair BC-QRM3		Hans	MON
	0900z	09/03[532/35 41864 18744 90898 67095 67387…..24034] Out 0910z		RNGB	WED
	0900z	11/04[533/36 A 54537 17139 .... 27715] 0910z Weak		Hans	MON
	0900z	13/04[533/36 54537 17139 75620 23620 09702…..27715] Good, Out 0910z		RNGB	WED
10221kHz	0710z	01/03[636/30 96811 10936 71455 28186 50192…..45832] Out 0719z Good		RNGB	TUE
	0710z	04/03[636/30 96811 etc] Good	(8m52s)	RNGB	FRI
	0710z	26/04[631/38 A72344 Ö 46773] Out 0720z Weak, QSB2	(10m16s)	PLondon	TUE
	0710z	29/04[631/38 A 72344 98154 .... 46773] 0720z Fair QSB3		Hans	FRI
10690kHz	0830z	28/03[644/33 23292 76533 26305 93837 76210…..47684] Good		RNGB	MON
	0830z	11/04[641/38 A 83214 73690 .... 57921] 0840z V.weak/weak		Hans	MON
	0830z	14/04[641/38 83214 73690 93599 03447 67351…..57921]		RNGB	THU
10800kHz	0645z	10/03[510/37 89847 01856 42931 37655 68370…..72937] Good		RNGB, Hans	THU
	0645z	19/04[519/33 68569 72274 93920 49171 98152…..41992] Good	(9m39s)	RNGB, PLondon	TUE
	0645z	21/04[519/33 A68569 … 41992] Out 0655z Weak and noisy,	(9m39s)	PLondon	THU
12153kHz	1600z	10/03[? /21 52457 11407 57643 34681 38850…..83487] Strong		RNGB	THU
	1600z	17/03[645/20 A 22260 63852 .... 13396] Fair		Hans	THU
	1600z	21/03[643/21 A 45896 91203 .... 60638] 1607z Strong		Hans	MON
	1600z	31/03[641/25 51260 94143 60810 42839 71229…..81673] Out 1608z		RNGB	THU
	1600z	07/04[643/20 22853 66722 45343 86474 47542…..41844] Good,	(7m0s)	RNGB	THU
	1600z	11/04[64?/?? 66819 72122…..05230] QRM		RNGB	MON
	1600z	14/04[641/20 09107 47407 58065 92461 95468…..00023]		RNGB	THU
	1600z	18/04[643/20 80638 47941 62047 12456 38413…..21346] Good, Out 1607z		RNGB, PLondon	MON
	1600z	21/04[641/21 17282 15326 95113 53160 39217…..11534] Strong		RNGB, PLondon	THU
	1600z	25/04[643/20 A 09575….. 68977] Out 1607z Fair	(6m35s)	PLondon	MON
	1600z	28/04[641/20 A 88087….. 81852] Out 1607z Strong	(7m15s)	PLondon	THU
15915kHz	1540z	10/04[222/37 28173 92332 58726 86482 83554…..23205] Fair		RNGB	SUN
16112kHz	1015z	28/03[477/30 22628 75036 23255 91326 44548…..18817] Out 1028.30z		RNGB	MON

E17z
March 2011

12930kHz	0810z	10/03[674 839 5 09817]	FN	THU
	0810z	17/03[674 923 5 15357 01989 73224 42277 76294 923 5 0 0 0 0 0]0815z QSA2 QRM	JO	THU
14260kHz	0800z	03/03[674 839 5 09817 67152 38948 56473 78231]	GD	THU
	0800z	10/03[674 839 5 09817]	FN, GD	THU
	0800z	17/03[674 923 5 15357 01989 73224 42277 76294 923 5 0 0 0 0 0]0805z QSA3	JO, GD	THU
	0800z	24/03[674 923 5 15357 01989 73224 42277 76294 923 5 0 0 0 0 0] Repeat of last week, poor signal	GD	THU

April 2011

12930kHz 0810z	14/04[674-910/5=40015]		H-FD	THU
0810z	21/04[n.hrd. QRM dig. Sta]		FN	THU
14260kHz 0800z	07/04[674 910 5 40015 80792 55599 43533 45584]		GD	THU
0800z	14/04[674-910/5=40015]		H-FD	THU
0800z	21/04[674 891 5 45569]		FN, Hans, GD	THU

<u>E23 [**XI**]</u> <u>Frequencies and Times. All SSB</u> [From AnonUK]

Since December 2004 skeds have become erratic, and may not stick to correct weeks. Some voice transmissions have been heard in week 2
Week 1 Usually starts on the first Monday of the Month, but there have been variations to this.
Times are not rigid, has been known to start as early as Hour + 52 [Tnx AnonUK]. Week 2 was M04 Not heard since September 2000

	Week 1		Week2		Week 3		Week 4	
	Time	Freq	Time	Freq	Time	Freq	Time	Freq
Monday	0957	6507			0757	4832	0757	5340
	1157	8188			0957	6200	0957	8188
	1257	5340			1157	8188	1157	7250
					1257	6507		
Wednesday	0957	6507			0757	4832	0757	5340
	1157	8188			0957	6200	0957	8188
	1257	5340			1157	8188	1157	7250

<u>E25 [O]</u>

A lot of activity occurred on 9450 kHz during the past two months, permitting successful reception for many European listeners. What a bliss! Your logs were flooding my mailbox (well, I'm exaggerating a little bit), thus there is a slight possibility I missed to include some of your logs in the current Newsletter. I encourage all E25 fans to spend some time reading the E2K guidelines for proper logs submission. This will reduce the probability your column editor to ignore some of your precious logs in the future.

Egypt didn't switch to DST this year. So no schedule shifts were observed. (Good news for E25 monitors; it was nothing more than a complication.)
The previous Government was planning to take a decision to cancel DST time in 2011 before the revolution. The transitional government has declared a law of canceling the daylight saving time on April 20, 2011. [Wikipedia]

Some Agents were getting the same message for an unusually long period of time. Notably, Agent 440 is getting (even today, May 4th) the same message since 22/02. Agent 275 had the same message from 23/02 till 25/03, but no further message for him occurred since then. Also, Agent 555 had the same message from 22/02 till 07/03. (Today, May 4th, he got a new message.) Finally, the same message was sent to Agent 222 from 08/04 till 27/04.

And as usual, the voice-generating device which E25 operators use, still operates erratically. The voice had a varying tempo, sometimes creating a lot of confusion to E25 listeners (amateur or not!). Furthermore, WinXP sounds were transmitted before, during or after the messages. Examples of such odd transmissions can be found at hfsurfing.blogspot.com/search/label/E25.

March 2011

9450kHz 1200z	04/03[275 5716 **4031** <u>3390</u> 1618 7357 9077 0504 7127 8900 5148 7498 3471 <u>3390</u> (as of 23/02)]YL		ThomasE2Kde	FRI
1230z	04/03[555 9104 **6031** <u>8741</u> 0413 3253 8882 6157 7803 8487 0312 8828 2497 <u>8741</u> (as of 22/02)]			
	ALM YL irregular, BC QRM		WolfgangE2Kde	FRI
1230z	04/03 (as above)		ThomasE2kde	FRI
1249z	04/03[440 8237 **4031** <u>4710</u> 2377 1161 8115 5905 2141 0105 3069 1730 7939 <u>4710</u> (as of 22/02)]			
	YL irregular, breaks, BC QRM		WolfgangE2Kde	FRI
1310z	04/03 Oriental music along with BC QRT 1320z		WolfgangE2Kde	FRI
9450kHz 1228z	05/03[555 (as of 22/02)]ALM YL irregular spaces, Strong		MG	SAT
1244z	05/03[440 (as of 22/02)]YL irregular spaces, Strong		MG	SAT
1342z	05/03[227 17 220 18 19 20 222 5279 **4411** <u>0810</u> 5897 2744 2999 2440 4217 0585 4482 <u>0810</u>]			
	ALM YL irregular spaces, BC QRM, Strong		MG	SAT
1350z	05/03 Very weak, but audible in USB, in progress with the "fooor" - "sevin" lady		Kopf	SAT
9450kHz 1200z	06/03[275 (as of 23/02)]YL irregular 75 Mx2 then calling 275, Strong, carrier left up		MG, Fox	SUN
1204z	06/03[start not heard, starting with MSG, 5718 4031 3390 1618 7357 9077 0534 7127 8900 5148			
	7498 3471 3390 RPT (3x) rpt of msg]		Gert	SUN
1224z	06/03[555 (as of 22/02)]ALM YL irregular, Strong, carrier left up		MG, Fox	SUN
1226z	06/03[555 (as of 22/02)]Music for 4 min 'arouh li meen'		Gert	SUN
1245z	06/03[440 (as of 22/02)]YL clg early 440 twice, irregular, EOM, carrier left up, QRT 1300z		MG, Fox	SUN
1246z	06/03[440 (as of 22/02)]EOM only		Gert	SUN
1314z	06/03[785 37]YL, Strong, Mx3, Rx3, EOM, carrier left up		MG, Fox	SUN
1315z	06/03[785 37 repeated for 2 minutes, than MSG (x3) RPT (x3) EOM - no message was send]		Gert	SUN
1345z	06/03[227 17 220 18 19 20 222 (as of 05/03)]ALM YL erratic, Strong, carrier left up, QRT 1358z		MG, Fox	SUN
1345z	06/03[(as of 05/03)]music 'arouh li meen' chaotic and difficult to copy		Gert	SUN
9450kHz 1200z	07/03[275 (as of 23/02]YL, Strong, EOM only, carrier left up		MG	MON
1228z	07/03[555 (as of 22/02)]ALM YL irregular, Strong, 5 grps after Rx3 then carrier left up		MG	MON
1247z	07/03[440 (as of 22/02)]YL irregular, broken, Mx2 Strong		MG	MON

9450kHz 1244z	09/03[440 (as of 22/02)]start not heard only logged the repeat [message recovered by MG]	Dev556	WED
6140kHz 0802z	10/03[185 1199 9410 1360 3186 7608 3786 8646 6041 5620]YL, EOM, Strong, QSB2	MG	THU
1000z	10/03[570 6733 1011 4209 7803 6430 8567 2907 4664 3535]YL, Strong	MG	THU
9450kHz 1200z	10/03[275 (as of 23/02)]YL, Strong, carrier left up, WinXP sounds	MG	THU
1230z	10/03[557 6]ALM, YL, Strong, QRT 1236z	MG	THU
	Transmission not audible in North of England, but S7 fully readable on SDR internet radio in Austria	Brixmis	THU
1244z	10/03[440 (as of 22/02)]Carrier 1238z, YL, Strong, some pauses, EOM only	MG	THU
	(Same comment as above)	Brixmis	THU
6140kHz 0813z	11/03[187 96]Carrier off-freq, i.p. 0808Z, YL, ended Mx2	MG	FRI
9450kHz 1200z	11/03[275 (as of 23/02)]Carrier i.p. YL only the 2 first groups sent, QRT 1206z	MG, ThomasE2Kde	FRI
1250z	11/03[440 (as of 22/02)]WinXP sound, YL, EOM only, carrier left up till 1310z	MG, RN, Brixmis	FRI
6140kHz 0802z	13/03[364 14]YL Strong, ended Mx3 EOT	MG	SUN
0918z	13/03[950 **7021** 3156 <u>8610</u> 5680 2577 2917 8503 3231 8199 4881 3320 <u>8610</u>]YL, QRN, WinXP sounds	MG	SUN
0929z	13/03[135 133 7984 8585 0855 8546 4671 6134 7961 1347 2399]YL, QRN during half of the TX	MG	SUN
0958z	13/03[570 7737 4142 7624 1308 8978 3344 3109 8208 2085 2408 8652 2057]YL eats some numbers	MG	SUN
9450kHz 1244z	14/03[440 (as of 22/02)]missed call, quite noisy reception in Roma, carrier still up at 1250z	AE	MON
1247z	14/03 Just caught the end of message (probably same as 11/03) using an SDR radio in Austria	Brixmis	MON
1244z	14/03 conditions were very poor, weak and noisy	PLdn	MON
1313z	14/03[785 38 780 9198 **4080** <u>4110</u> 0514 9719 2265 5518 <u>4110</u>]WinXP sounds after EOM EOT	AE	MON
1312z	14/03 conditions were very poor, weak and noisy, carrier till 1321z	PLdn	MON
9450kHz 1322z	15/03[785 39 40]WinXP sounds at beginning, YL eats numbers, ended Mx3. Good reception in Roma	AE	TUE
6140kHz 0758z	16/03[116 **5080** 4236 7840 2705 9558 2939 6752 9710]tone YL EOM only	MG	WED
9450kHz 1145z	16/03[275 (as of 23/02)]Tone, YL, irregular	AE	WED
1242z	16/03[440 (as of 22/02)]OM singing, tone, YL. Heard on SDR receiver in Austria. Good signal	Brixmis, AE	WED
6140kHz 0801z	17/03[116 (as of 16/03)]	MG	THU
9450kHz 1205z	17/03[275 (as of 23/02)]YL, EOM only. Heard on remote SDR receiver in Austria	Brixmis, AE	THU
1244z	17/03[440 (as of 22/02)]"44" at 1226z, YL, EOM only QRT 1250z. Heard on remote SDR receiver in Austria	Brixmis, AE	THU
9450kHz 1243z	18/03[440 (as of 22/02)]YL irregular EOM, heard on SDR based radio in Austria	Brixmis, AE	FRI
6140kHz 0845z	19/03[804 8788 <u>4870</u> 7119 2314 0630 4337 2520 <u>4870</u> **8190**]YL, Strong, no EOT	MG	SAT
1000z	19/03[570 9735 5091 5019 2302 6464 8015 9908 6318 5901 1265 4239 0825 5162 6722 1785 6401 6270]YL	MG	SAT
9450kHz 1157z	19/03[275 (as of 23/02)]Carrier, YL, Very Strong	MG, AE	SAT
1243z	19/03[440 (as of 22/02)]YL, Very Strong, no EOT	MG, AE	SAT
6140kHz 0800z	20/03[116 **6011** 1030 4930 8755 5510 7889 5288 5226 6906 1122 8809]YL Fair, QSB, QRN	MG	SUN
0900z	20/03[111 3780 <u>8440</u> **7031** 5105 1176 5858 8705 2360 7593 4306 0548 8883 <u>8440</u>]EOM, WinXP sounds	MG	SUN
9450kHz 1243z	20/03[275 5716 4031 339... (starts as of 23/02) pause 440(as of 22/02)]YL, switches call during msg, V. Strong	MG, AE	SUN
1313z	20/03[785 41 780 1991 **5021** <u>6210</u> 3557 6510 8438 6257 2523 6388 5341 6051 <u>6210</u>]Up 1310z,YL V. Strong	MG, AE	SUN
6140kHz 0800z	21/03[116 (as of 20/03)]YL, QRN	MG	MON
6140kHz 0846z	22/03[804 5783 <u>0250</u> 7111 9719 2090 3031 3780 <u>0250</u> **9190**]0840z carrier off-freq, QRT 0842z. Tone, WinXP sounds (unplugging a USB device) Fair	MG	TUE
9450kHz 1202z	22/03[275 (as of 23/02)]YL irregular	AE	TUE
1245z	22/03[440 (as of 22/2)]YL irregular, EOM only	AE	TUE
6140kHz 0842z	23/03[804 (as of 22/03)]Tone, QRN, Fair then Strong	MG	WED
9450kHz 1201z	23/03[275 (as of 23/02)]YL very weak	AE	WED
1245z	23/03[440 (as of 22/02)]YL, EOM only, carrier up from 1240z, Good	AE	WED
1316z	23/03[785 42 43 780 9049 **6070** <u>2830</u> 9526 6815 6632 <u>2830</u>] YL, EOM only, carrier up from 1313z, Strong	AE	WED
6140kHz 0800z	24/03[012 6107 7590 9937 1287 8308 6191 9287 7858]YL, slow, Strong	MG	THU
0845z	24/03[804 (as of 22/03)]YL, Strong	MG	THU
1046z	24/03[126 39]YL slow, Mx3, Rx3, EOM	MG	THU
9450kHz 1200z	24/03[275 (as of 23/02)]YL, EOM only. Good	AE	THU
1246z	24/03[440 (as of 22/02)]YL, EOM only. Good	AE	THU
1315z	24/03[780 785 44 45 780 1959 **7011** <u>8220</u> 9135 8503 4659 4967 9007 8165 0544 <u>8220</u>] YL, carrier up at 1310z, Strong	AE	THU
6140kHz 0800z	25/03[012 (as of 24/03)]YL AM, S3-4	MG	FRI
9450kHz 1200z	25/03[275 (as of 23/02)]YL AM Very strong, WinXP sounds then QRT	MG	FRI
1244z	25/03[440 (as of 22/02)]YL QRT during repeat	MG	FRI
1315z	25/03[785 44 45 780 (as of 24/03)]YL V. Strong WinXP sounds	MG	FRI
6140kHz 0800z	26/03[017 79]YL Strong, 2 WinXP sounds	MG	SAT
6140kHz 0844z	27/03[804 8183 8720 1572 6432 6530 0695 1503 **0280**]YL Strong msg no structure*	MG	SUN
1001z	27/03[570 9730 2091 3191 2654 1826 7680 2682 1585 2959 1063 7758 3576 4721 5009]YL EOM Fair	MG	SUN
9450kHz 1036z	27/03[440]YL call only twice, carrier up 1017z, Very Strong, carrier left up*	MG	SUN
1223z	27/03[440]YL call only, Very Strong, carrier left up	MG	SUN
1245z	27/03[440 (as of 22/02)]YL, Very Strong, EOM only, QRT 1252z	MG, AE	SUN

6140kHz 0845z	28/03[806 3]YL Mx3 Rx3 carrier up at 0839z, Strong	MG	MON
1011z	28/03[570 (as of 27/03)]YL, EOM only	MG	MON
6140kHz 0822z	29/03 Tone, 0824z music, QRT 0825z, encrypted voice QRM. USB transmitter*	MG	TUE
0931z	29/03[135 13]YL varying speed, Mx3, Rx3, EOM EOT	MG	TUE
6140kHz 1000z	30/03[570 0833 4042 7973 8582 9938 6586 0126 7801 6376 7026 3534 5955 4429]slow, Strong, WinXp snd	MG	WED
6140kHz 1002z	31/03[570 (as of 30/03)]YL slow, last grp 449 OK at repeat	MG	THU

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9450kHz 1245z	01/04[440 (as of 22/02)]YL slow "EOM ...37" then QRT	MG	FRI
1245z	01/04 characters heard, too weak to resolve ended 1251z	PLdn	FRI
6140kHz 1028z	02/04[672 8327 3015 4153 1374 8476 1229 0265 4676]YL, Strong, QRN	MG	SAT
1045z	02/04[128 5162 **5521** 3390 7771 2803 5610 7823 2302 5404 2319 3863 3390]variable speed	MG	SAT
9450kHz 1313z	02/04[785 46]YL Mx3 and again785 46, Mx2, WinXP shutdown sound, then QRT	MG	SAT
6140kHz 0800z	03/04[116 **7011** 4733 5990 8720 5444 2806 8280 4152 8966 7873 1349]YL, Strong	MG	SUN
9450kHz 1252z	03/04[440 (as of 22/02)]YL, in progress, WinXP sound	MG	SUN
1315z	03/04[785 47 48]YL, Mx3 Rx3 EOM EOT WinXP sound, then QRT	MG	SUN
6140kHz 0800z	04/04[116 (as of 03/04)]YL Strong	MG	MON
0930z	04/04[135 13]YL Mx3 Rx3 EOM EOT	MG	MON
1046z	04/04[126 40]YL Mx3 Rx3 EOM EOT	MG	MON
9450kHz 1248z	04/04[440 (as of 22/02)]YL, pause during repeat, WinXP sounds	MG	MON
9450kHz 1246z	05/04[440 (as of 22/02)]YL, slow, missed a number	MG, AE	TUE
1315z	05/04[785 50 51 788 49]TL, slow ended 78... rptd, Mx3, Rx3, EOM EOT	MG, AE	TUE
9450kHz 1320z	06/04[780 9391 **8060** 5610 9554 7854 5610]YL, pauses, Mx3	MG	WED
6140kHz 0800z	07/04[012 7100 4470 5708 6738 2215 0871 5827 0815] carrier 0756z, YL, Very Strong (peaks +10dB) QSB3 WinXP sounds no EOM EOT QRT 0817z	MG	THU
9450kHz 1315z	07/04[440 (as of 22/02)]YL, carrier up at 1307z, eats a number, QRT 1321z	MG, AE	THU
9450kHz 1245z	08/04[440 (as of 22/02)]repetition not completed, YL, Fair	AE	FRI
1345z	08/04[222 *8040* **5490** 2370 4475 72xx 3874 289x 5792 2370] YL, at 1307z windows sounds, then man's voice in Arabic with echo effect, at 1345z song. Fair	AE	FRI
6140kHz 0800z	09/04[360 **6421** 4880 3351 9836 8953 3361 4186 6507 3344 4586 4880 5390] 0753z OM music, WinXP sounds, YL, "EOM 3...", Strong	MG	SAT
9450kHz 1244z	09/04[440 (as of 22/02)]Carrier up at 1236z, YL, Very Strong, EOM EOT WinXP sounds carrier QRT 1257z	MG	SAT
1315z	09/04[780 9040 **9021** 9110 9035 7303 6678 3399 9081 5029 7318 0750 9110] Carrier 1300z, YL Very Strong, WinXP sounds, carrier left up, various WinXP sounds heard later	MG	SAT
1345z	09/04[222 *8040* **5490** 2370 4475 7272 3874 2893 5792 2370 (as of 08/04)] ALM along with WinXP sounds, slow, YL at 1350z QRT at 1356z	MG	SAT
6140kHz 0800z	10/04[364 15 116 **8090** 4935 7150 7593 3637 3909 6348 4455 1689]YL "15 36 rptd Mx3"	MG	SUN
1036z	10/04[672 9327 6045 4190 3335 5599 2118 4238 8091 1276 2904 5827 6428 7925 2679 2751] YL pause at 1037z, continued at 1039z, some numbers not spoken initially, EOM only	MG	SUN
1102z	10/04 Very short piece from ALM, at 1108 broken "440" only once	MG	SUN
9450kHz 1245z	10/04[440 (as of 22/02)]YL QRN started at 1252z, EOM only at 1254z	MG, AE	SUN
1315z	10/04[785 54 780 (as 09/04)] Carrier up at 1256z, WinXP sounds in between, YL "78" rptd at 1320z, some numbers not spoken initially, pauses at 1325z	MG, AE	SUN
9450kHz 1245z	11/04[440 (as of 22/02)]just first and second groups repeated then stopped, carrier out at 1254, YL, Good	AE	MON
6140kHz 0800z	12/04[017 80]carrier 0758z, WinXP sounds, YL, Mx3, Rx3, WinXP sounds, "1", Strong, QSB3, carrier left up	MG	TUE
0815z	12/04[185 2197 8010 3785 5439 7143 7691 8510 1868 5651]YL, pauses, QRT 0820z, Strong, QSB3	MG	TUE
0915z	12/04[950 **8041** *2140* 8610 0627 3947 8890 7839 2042 1599 1993 5054 0466 3135 8610]IO, 0920z YL, EOM	MG	TUE
0945z	12/04[135 51]IO 0947z pauses 0951z continues, 0955z YL, Mx2 "6"	MG	TUE
1032z	12/04[672 0429 7092 7720 9797 9458 6139 3484 9157]YL	MG	TUE
9450kHz 1248z	12/04[440 (as of 22/02)]up at 1242z, YL, 1254z EOM EOT 1255z ALM a couple of seconds, carrier left up	MG	TUE
1348z	12/04[222 (as of 08/04)]ALM, YL 1354z, EOM EOT 1359z, ALM 1400z carrier left up	MG	TUE
6140kHz 1000z	13/04[672 (as of 12/04)]YL, variable tempo	MG	WED
6140kHz 0828z	14/04[701 6813 **4010** **2490** 1899 3485 4955 4240 4277 4010]Tone 0826z, YL	MG	THU
0932z	14/04[133 0237 3399 3265 5371 6609 2397 4267 3877 5970 0659 3396]Tone 0925z, YL	MG	THU
6140kHz 0842z	16/04[804 7583 **3860** 7572 0823 8755 5647 2087 2260 6259 8859 3860 **1221**]Tone 0840z, YL slow	MG	SAT
6140kHz 0844z	17/04[804 (as of 16/04)]YL	MG	SUN
9450kHz 1244z	17/04[440 (as 0f 22/02)]Carrier 1241z, YL, EOM only, carrier QRT at 1252z	MG	SUN
1245z	17/04[440 (as of 22/02)]EOM at 1251z, carrier off 1252z. Fair, QSB3	Hans	SUN

6140kHz 0800z	18/04[012 9150 7060 0389 1575 8799 7168 7560 4296 5328 3621 5133 5811]YL fast then slow	MG	MON
0815z	18/04[185 3195 7520 7661 9939 5454 0154 5354 4615 7175 5238 6210 3399 0954 6941 9245] YL fast then slow	MG	MON
0831z	18/04[701 5913 4010 **3431** 5980 1626 1789 3511 4496 0936 3077 2051 3477 4010]YL fast then slow	MG	MON
0846z	18/04[806 4]YL initially irregular, Mx3, Rx3 at 0849z, something spoken at 0852z	MG	MON
0932z	18/04[133 6650 1102 8697 5646 9515 3718 8944 2272 7668 4395]YL, initially low audio	MG	MON
9450kHz 1249z	18/04[440 (as of 22/02)]Carrier up 1247z, YL	MG	MON
6140kHz 0800z	19/04[012 (as of 18/04)]YL, Strong, crackling noise, QSB2	MG	TUE
0815z	19/04[185 (as of 18/04)]YL, Strong, QSB2	MG	TUE
0830z	19/04[702 17]YL, Mx3	MG	TUE
0931z	19/04[133 (as of 18/04)]YL, Strong, crackling noise, QSB2, EOM EOT "133 13..." QRT	MG	TUE
9450kHz 1246z	19/04[440 (as of 22/02)]Carrier up 1239z, YL, Very Strong	MG, AE	TUE
6140kHz 1003z	20/04[570 1873 1064 9854 3916 5302 3524 8510 5577 4629 0121 1895 5181 1569 4776 6763]YL Rx4	MG	WED
6140kHz 0814z	21/04[185 4190 8951 0162 5605 6067 2849 8867 3963]YL pause during call, Strong, QSB2, carrier left up	MG	THU
0829z	21/04[140 0432 9021 8150 8032 7729 **3370** 9021]YL, EOM, Strong, QSB3, QRT 0838z	MG	THU
0959z	21/04[570 (as of 20/04)]YL, QRN, Weak		
9450kHz 1315z	21/04[788 49 52 53 55 785 56]Carrier up at 1304z, gone erratic and fast at 1321z, at 1323z "78" repeated, Mx3 Rx3 EOM EOT, WinXP sounds, QRT at 1326z. Very Strong	MG, AE	THU
6140kHz 0815z	22/04[185 (as of 21/04)]Carrier up at 0800z, YL eats numbers, carrier left up, "185" sporadically before/after	MG	FRI
0830z	22/04[145 1]YL eats numbers, difficult to understand, Mx3, Rx3, QRT at 0835z	MG	FRI
9450kHz 1313z	23/04[785 49 57 788 52 53 55]then 78 (repeated) Message (once and nothing sent) YL Strong	AE	SAT
1347z	23/04[222 (8 grps as of 08/04)]1334z song (just one second), 1341z complete song, YL, no repetition, Strong	AE	SAT
6140kHz 0901z	24/04[111 5381 3310 **8011** 1793 1043 5779 0182 3458 8870 6451 3310]WinXP startup sound, BC QRM4 (Radio Gloria Intl.)	MG	SUN
9450kHz 1315z	24/04[788 52 53 55 785 58]Carrier up 1251z, 78 repeated at 1326z, Mx3, Rx3, EOM, QRT 1331z, Strong	MG, AE	SUN
9450kHz 1246z	25/04[440 (as of 22/02)]YL, Rx2, misses some numbers, QRT 1253z, Very Strong	MG	MON
1315z	25/04[785 59 60]Carrier up 1312z, WinXP sounds, YL, Mx1, WinXP sounds, QRT 1320z	MG, LD	MON
1344z	25/04[222 (as of 08/04)]ALM, YL	MG	MON
9450kHz 1246z	26/04[440 (as of 22/2)]Carrier up at 1243z, YL, WinXP sounds, 1307z "7" carrier left up, Very Strong	MG	TUE
1314z	26/04[785 61]YL, 1319z ALM for 1sec, QRT at 1326z	MG	TUE
1346z	26/04[222 (as 08/04)]ALM, YL, Very Strong, QRT 1354z	MG	TUE
9450kHz 1246z	27/04[440 (as of 22/02)]Carrier up at 1244z, YL	MG, AE, LD	WED
1346z	27/04[222 (as 08/04)]"785 62" then ALM, YL, "222" at 1350z, EOM EOT 1355z	MG, LD, FreakE2Kde	WED
6140kHz 1001z	28/04[575 59]YL, Strong, QSB3, EOM EOT QRT 1003z	MG	THU
9450kHz 1315z	28/04[788 63 64]YL, EOM EOT 1322z	MG, FreakE2Kde	THU

Thanks Manolis.

G06[1A]

PoSW's Log:

First + Second Mondays in the Month 1700 + 1800 UTC Schedule:-
7-Mar-11:- 1800 UTC, 4,864 kHz, second sending, "439 439 439 00000". S9 signal, usual slow delivery. Found approx. one minute into the transmission. Was on 4,587 kHz in February.

14-Mar-11:- 1800 UTC, 4,864 kHz, "439 439 439 00000".

Unable to find this one in April; was heard on 4,787 + 5,412 kHz in April last year.

Thursday 1830 UTC Schedule:-
10-Mar-11:- 5,934 kHz, seasonal change of frequency from 4,519 kHz of the past few months. Inside 49 metre broadcast band, severe interference at times. Call "579", DK/GC "732 732 15 15".

14-Apr-11:- 5,934 kHz, call "579", DK/GC "487 487 15 15", difficult copy due to broadcast interference.

Friday 1930 UTC Schedule:-
11-Mar-11:- 5,442 kHz, call "947", DK/GC "456 456 15 15". Change of frequency from 4,792 kHz of the winter months. Good signal, interference free.

25-Mar-11:- 5,442 kHz, "947" and "456 456 15 15" again.

15-Apr-11:- 5,442 kHz, started approx. 20 seconds late, call "947", DK/GC "833 833 15 15".

G06 continued
March 2011

4457kHz	1700z	07/03 zeroes only		Hans	MON
4864kHz	1800z	07/03[439 00000(s)] Strong QSB2		Hans	MON
5442kHz	1930z	11/03[947 456 15 12453 ... 68879 00000] Strong signal, QRM, QSB		FR	FRI

947 456 15
12453 23564 35764 46875 57687
08796 99768 08642 13579 43543
21320 23550 64505 50540 68879
00000

	1931z	25/03[947 456 15 12453 ... 68879 456 15 00000]1939z Fair	(7m32s)	PLd, E	FRI

April 2011

4457kHz	1700z	04/04[439 00000(s)] Strong QSB2		Hans	MON
5442kHz	1930z	15/04[947 833 15 31478 … 87536 833 15 00000(s)]1937z Strong	(7m16s)	PLdn	FRI
	1930z	29/04[947 835 15 31478 … 87536 835 15 00000(s)]1937z Very strong	(7m16s)	PLdn	FRI
5934kHz	1830z	14/04[579 487 15 79426 … 63921 487 15 00000(s)]1837z Fair, BCQRM3/4	(7m06s)	PLdn, RNGB	THU
	1830z	28/04[579 …]Occasional character heard, MxBCQRM3/4		PLdn	THU
6774kHz	0800z	04/04[215 00000(s)] Weak/Fair		Hans	MON
		11/04[215 00000(s)] Strong		Hans	MON

G11[III]

5815kHz	1755z	01/03[278/30 14057 78594 41704 54548 54334…..68422] Strong		RNGB	TUE
	1325z	04/03[293/36 00109 62366 04788 56333 52943…..80100]		RNGB	THU
	1755z	06/03[278/30 14057 etc] repeat of Tuesday		RNGB	SUN
	1755z	08/03[270/00]		RNGB	TUE
	1325z	11/03[299/00] Weak/Fair		Hans	FRI
	1325z	12/03[299/00]		RNGB	SAT
	1755z	22/03[270/00] Strong with lousy audio		Hans	TUE
	1755z	29/03[270/00] Strong		RNGB	TUE
	1325z	01/04[299/33 A 12886 74990 .... 79953] 1335z Weak		Hans	FRI
	1325z	02/04[299/33 A 12886 74990 .... 79953] 1335z Weak		Hans	SAT
	1755z	03/04[270/00] Strong		Hans	SUN
	1755z	05/04[270/00] Strong (Poor sound quality)		Hans	TUE
	1325z	08/04[299/00] Very weak		RNGB, Hans	FRI
	1755z	10/04[270/00] +10db sounded compressed		Mndbs, RNGB	SUN
	1755z	12/04[277/37 77307 39791 62016 40342 10336…..85486] Ende 1806z [277737 sent]		RNGB	TUE
	1325z	15/04[299/00] Weak		Hans	FRI
	1325z	16/04[299/00] Weak		Hans	SAT
	1755z	17/04[277/37 77307 39791 62016 etc] repeat of Tues. Bad audio	(10m47s)	RNGB, Hans	SUN
	1755z	19/04[270/00] Ende 1758z, Strong, audio distorted. Other waveform on freq.		PLondon	TUE
	1755z	26/04[270/00] Ende 1758z Very strong	(3m22s)	PLondon	TUE
	1325z	29/04[299/00] Weak		Hans	FRI
	1325z	30/04[299/00] V.weak		Hans	SAT
6433kHz	2000z	06/03[262/00]		RNGB	SUN
	2000z	11/03[262/00] Fair		RNGB	FRI
	2000z	13/03[262/00] Strong		RNGB	SUN
	2000z	15/04[262/00] Ende 2003z Strong, DATAQRM2	(3m16s)	PLondon, Hans	FRI
	2000z	17/04[262/00] Ende 2003z Strong	(3m22s)	PLondon	SUN
	2000z	22/04[262/00] Ende 2003z Strong	(3m19s)	PLondon	FRI
7317kHz	0940z	07/03[275/00] Strong		Hans	MON
	0940z	17/03[275/00] Strong		Hans	THU
	0940z	21/03[278/30 26553 46694 91084 09612 74564…..17805] Ende 0949z		Randy, Hans	MON
	0940z	28/03[275/00] Strong		RNGB	MON
	0940z	04/04[271/38 A 86751 04025 .... 25722] 0950z Strong		Hans	MON
	0940z	11/04[275/00] Strong		Hans	MON
	0940z	14/04[275/00] Strong		RNGB	THU
	0940z	18/04[275/00] Ende 0943z Strong	(3m25s)	PLondon	MON
	0940z	21/04[275/00] Ende 0943z Fair	(3m22s)	PLondon, RNGB	THU
	0940z	25/04[275/00] Ende 0943z Fair	(3m16s)	PLondon	MON
	0940z	28/04[275/00] Ende 0943z Strong	(3m23s)	PLondon	THU
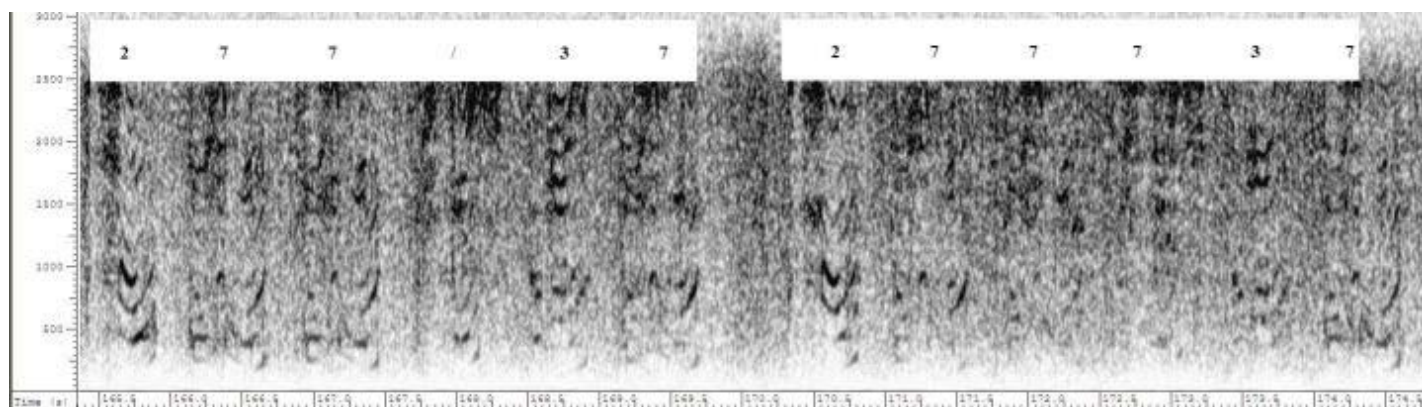
G11 5815kHz 1755z   12/04   277737 sent in place of 277/37 during run up to message

S06 [1A]

We start with RNGB's report, followed by PoSW and then others, with some duplication.

S06

I was listening for ID 285 on the 2nd Monday of the month (April) on 9095kHz at 20.15z but nothing heard except jet-noise. Looked nearby and nothing found. At 21.15 7630kHz produced nothing either so went looking again. S06 was found on 8130kHz but using January's ID of 121
Thought this may have been operator error but subsequently on the 4th Monday of the month it was still using ID 121 and 8130khz at 21.15z. Nothing found at 20.15z
Will be interesting to see what turns up in May!
ID 480 has been active on most days of the week using last year's frequencies of 9225/6810 and 8130/5765
Messages repeated after 30 mins instead of usual hour apart. It will have gone by May (frequencies too low to copy? Or maybe just a seasonal event?)

S06 March log:

Weds	02/03	09.30	9225	480 536 21 12495 16306 29330 42936 71583.....70658
Weds	02/03	09.38	9225	480 716 23 21849 62102 90041 63122 20559.....09751
Weds	02/03	13.00	8130	480 536 21 12495 16306 29330 42936 71583.....70658
Weds	02/03	18.00	5735	471 00000
Thurs	03/03	19.05	5127	349 00000
Sat	05/03	16.05	7612	134 00000
Sat	05/03	19.35	4628	366 00000
Sat	05/03	20.30	6791	703 00000
Sat	05/03	21.30	5854	703 00000
Mon	07/03	19.05	5127	349 00000
Weds	09/03	09.30	9225	480 ? 43 groups
Wed	09/03	13.00	8130	480 197 43 42465 19286 61750 89485 07687
Wed	09/03	18.00	5735	471 00000
Thurs	10/03	09.30	9225	480 762 41 95389 28164 99900 24008 27146.....34723
Thurs	10/03	19.00	5771	349 00000
Sat	12/03	16.05	7625	134 00000
Mon	14/03	09.30	9225	480 513 42 58134 37725.....98326
Mon	14/03	19.05	5127	349 00000
Weds	23/03	09.30	9225	480 395 44 64950 21574 35374 12960.....96901
Weds	23/03	13.00	8130	480 395 44 64950 21574 35374 12960.....96901
Weds	23/03	18.05	5070	471 00000
Thurs	24/03	19.00	5784	349 00000
Sat	26/03	19.30	5797	366 00000
Mon	28/03	08.30	9225	480 657 42 49345 63705 33499 13833…..
Mon	28/03	19.05	5127	349 00000
Weds	30/03	08.30	9225	480 527 4??
Thurs	31/03	19.00	5784	349 00000

S06 April log:

Sat	02/04	16.00	8162	134 00000
Sat	02/04	19.30	5787	366 00000
Mon	11/04	08.30	9225	480 too weak to copy message
Mon	11/04	19.00	5784	349 00000
Mon	11/04	21.15	8130	121 00000
Tues	12/04	08.30	9225	480 253 41 groups
Tues	12/04	18.01	5890	286 00000
Weds	13/04	08.30	9225	480 359 41 01629 97794 84566 13530.....87676
Weds	13/04	12.00	8130	480 359 41 01629 97794 84566 13530.....87676
Weds	13/04	18.00	5735	471 00000
Thurs	14/04	08.30	9225	480 952 43 ?.....43336…..

19

S06 April log continued:

Thurs	14/04	12.00	8130	480 952 43 ? 71002.....43336
Thurs	14/04	19.00	5784	349 00000
Sat	16/04	16.00	8162	134 00000
Sat	16/04	19.00	6791	703 00000
Sat	16/04	19.35	4628	366 00000
Sat	16/04	20.00	5848	703 00000
Mon	18/04	08.30	9225	480 536 40 58515 79072 08746 16733 34362.....09893
Weds	20/04	08.30	9225	480 217 40 34415 80223.....54765
Weds	20/04	12.00	8130	480 217 40 34415 80223.....54765
Thurs	21/04	19.00	5784	349 00000

S06c

15817kHz 0623z 19/04 [11206] 0625z Strong (i/p)	Hans	TUE
13972kHz 0700z 19/04 [11132] 0704z Strong (i/p)	Hans	TUE
10202kHz 0642z 27/04 [11060] 0644z i/p Strong	Hans	WED

Restart at 0650z, ended 0654z

S06 variant
Tues 1st March
7331kHz 0737z   ??544 x3 12418 x2 (OM)

S06s
Thursday's ID 624 was found sending nulls on the first 2 weeks of March at 10 minute intervals from1400 to 1450
It was back to sending normal messages by the 4th week of March on the scheduled frequencies.
The first Saturday of the month continues with ID 254 but no repeat frequency found yet, and it sends same message for 2 months. A strange one indeed!

S06s March log:

Monday

7th/14th	1300/1310	9145/11460	'831'
21st/28th			'831' 407 5 39884 32781 28301 45273 44070
7th/14th	1600/1610	8040/6830	'176'
21st/28th			'176' 948 5 47732 42554 25407 88664 14515

Tuesday

1st/8th	0600/0610	14080/12355	'438' 962 5 45751 83455 50587 47431 46802
15th/22nd			'438' 951 6 35555 71176 73422 87755 41963 85501
1st/8th	0700/0715	5760/6930	'374' 912 5 63627 93516 67624 54410 63561
15th/22nd			'374' 986 5 35484 35082 25437 68424 49706
1st/8th	0800/0810	7320/9840	'418' 930 5 94870 54667 54363 71883 06744
15th/22nd			'418' 260 5 15575 48145 17464 44564 82458
1st/8th	0800/0810	11635/10420	'352' 401 6 67100 13450 20197 34116 72587 49848
15th/22nd			
1st/8th	1230/1240	? / 5805	'278' 410 5 63207 21065 63450 79651 55298
15th/22nd			
1st/8th/15	1500/1510	6464/7242	'537' 819 6 15357 01898 73224 42277 76294 37536

Wednesday

2nd/9th	0530/0540	10835/12170	'153' 429 6 99578 25364 35551 57588 28571 32575
2nd/9th	0820/0830	7605/9255	'471' 802 5 20869 21340 54058 24118 55048
16th/23rd			'471' 286 5 67345 92688 87965 57144 32658
2nd/9th	0830/0840	7335/11830	'745' 821 6 71212 54293 11961 44222 38324 84459
16th/23rd			'745' 901 6 78886 25853 21544 96247 72322 23744
2nd/9th	0840/0850	9480/11040	'328' 976 5 53989 38362 50545 04145 80997
16th/23rd			'328' 967 5 52553 36717 56556 14154 68764
2nd/9th	1000/1010	13365/14505	'729' 864 5 72453 18252 24649 00413 43642
16th/23rd			'729' 806 5 67453 89674 34215 56553 89660
2nd/9th	1200/1210	7120/6415	'481' 209 5 54019 16494 65166 41937 57460
16th/23rd			'481' 260 5 47623 79834 12175 80945 34312
2nd/9th	1230/1240	7620/8105	'967' 843 5 18375 68045 74555 56358 56412
16th/23rd			'967' 238 5 33751 89664 09785 23122 65644

Thursday

3rd (E17z)	0800/0810	14260/12930	'674' 839 5 09817 67152 38948 56473 78231
17th			'674' 923 5 15357 01989 73324 42277 76294
3rd/10th	0900/0910	12952/13565	'167' 928 5 78365 44230 98142 67822 10298
17th/24th			'167' 948 5 99228 77544 04816 56557 51269
3rd/10th	1200/1210	12560/13065	'425' 918 6 67846 35628 90278 88923 82123 76567
17th/24th			'425' 987 6 42053 82914 48527 54184 73101 10585
3rd/10th	1230/1240	8650/7385	'314' 902 5 25269 82096 13947 54034 55531
17th/24th			'314' 958 6 24351 04221 14022 84187 65862 29148
3rd/10th	1400/10/20/30/40/50	?	
		/5410/6270/6770/7135/7650	'624' 00000
24th		5320/4845	'624' 978 5 20163 29076 57605 45532 62630

Friday

4th/11th	0600/0610	6340/5470	'934' 871 5 51371 80694 87586 55656 94256
18th/25th			'934' 287 5 47455 45858 31265 55746 86153
4th/11th	0700/0710	7795/8695	'196' 273 5 82790 51738 68186 45553 42820
18th/25th			'196' 248 5 35150 81821 02555 01960 83157
4th/11th	0930/0940	12140/13515	'516' 902 7 32739 40215 52605 24523 17341 74841 84039
18th/25th			'516' 940 7 65855 64295 56776 97544 54434 53654 38585

Saturday

5th/12th	1200/1210	10350/?	'254' 837 6 50050 54558 34745 58575 48805 57985

Monday

4th/11th	1200/1210	9145/11460	'831' 472 6 10928 76843 67332 91765 33990 56743
18th/25th			'831'
4th/11th	1600/1610	8040/6830	'176' 834 5 78326 45362 81920 48365 89221
18th/25th			'176' 938 5 95672 71514 72202 46457 03176

Tuesday

5th/12th	0600/0610	14080/12355	'438' 957 6 10672 39486 56473 09918 67823 60156
19th/26th			'438' 279 5 21065 63450 79651 55298 63207
5th/12th	0700/0715	5760/6930	'374' 218 5 50297 15244 64985 35524 83371
19th/26th			'374' 809 5 23970 45531 24959 31442 36822
5th/12th	0800/0810	7320/9840	'418' 960 5 49523 35895 82654 55555 57289
19th/26th			'418' 203 5 28145 04235 58974 54446 45040
5th/12th	0800/0810	11635/10420	'352' 987 6 66651 85324 35734 54225 35862 64030
19th/26th			'352' 408 6 78154 55724 92173 83623 58565 99120
5th/12th	1230/1240	? / 5805	
19th/26th			
5th/12th	1500/1510	6464/7242	'537' 412 6 84480 67410 37767 78924 57184 47545
19th/26th			'537' 894 6 48428 45313 34571 64497 55259 84845

Wednesday

6th/13th	0530/0540	10835/12170	'153' 468 7 79646 77197 12866 54004 43453 61190 94855
20th/27th			'153' 479 6 55959 89504 42543 34813 42020 42742
6th/13th	0820/0830	7605/9255	'471' 295 6 groups ? (very weak)
20th/27th			'471' 830 6 96587 41896 80895 52956 13524 51786
6th/13th	0830/0840	7335/11830	'745' 286 9 55637 38955 66775 27465 44512 05943 55273 64266
	44157		
20th/27th			'745' 932 6 38165 35446 57922 57857 95144 18454
6th/13th	0840/0850	9480/11040'	
20th/27th			'328' 591 6 74856 44856 55958 09475 94584 44532
6th/13th	1000/1010	13365/14505	'729' 538 6 71677 15375 38659 95250 32856 59355
20th/27th			'729' 541 6 47442 67525 28187 03655 85024 48133
6th/13th	1200/1210	7120/6415	
20th/27th			
6th/13th	1230/1240	7620/8105	'967'
20th/27th			'967' 241 5 45841 11571 73426 50081 47212
6th/13th	1900/1910	9220/8270	'371' 980 5 99228 77544 04816 56557 51269
20th/27th			'371' 402 6 84459 72528 50628 45812 95668 45147

Thursday

7th/ (E17z}0800/0810		14260/12930	
21st/28th			
7thy/14th	0900/0910	12952/13565	'167' 942 5 34244 52159 27271 18219 41344
21st/28th			'167' 832 5 33356 25402 34582 67394 45052
7th/14th	1200/1210	12560/13065	'425' 980 6 73268 44316 95557 05470 44057 93711
21st/28th			'425' 801 6 53304 93457 49176 01505 95298 73355
7th/14th	1230/1240	8650/7385	'314' 872?6
21st/28th			
7th/14th	1400/1410	5320/4845	
21st/28th			

Friday

1st/8th	0600/0610	6340/5470	'934' 806 5 43157 03875 87102 23559 55363
15th/22nd			'934' 276 5 60264 45074 51182 54743 37035
1st/8th	0700/0710	7795/8695	'196' 280 5 67562 72165 48142 56732 32867
15th/22nd			'196' 278 5 46118 08235 59473 61645 43959
1st	0934/0944	12140/13515	'516' 248 7 17424 32124 23345 00824 79041 71615 34416
8th			Frequencies keyed but no voice!
15th/22nd			'516' 942 7 39198 19584 33363 54197 63857 78523 84675

Saturday

2nd	1200/1210	10350/?	'254' 837 6 50050 54558 34745 58575 48805 57985

From PoSW:

All loggings are the usual four minute "no message" - with one exception, the fourth Monday in the month schedule on 25-April, my very last one of this session, transmitted a "full message" of 63 x 5F groups.

Saturday 1600 or 1605 UTC Schedule:-
26-Feb-11:- 1600 UTC, 7,728 kHz, "134 134 134 00000". Heard on several occasions in the past couple of months at 1605z on 6,788 kHz, first time heard on the hour. Suspicious carrier noted on 7,728 at 1555z after a search when no pre-transmission activity evident on 6,788.

12-Mar-11:- 1605 UTC, 7,625 kHz, seasonal change of frequencies, "134 134 134 00000".
Not actually found until about three minutes into the transmission although a carrier had been noted on 7,625 earlier but I had assumed this was a broadcast station warming up because, unusually, it was on a multiple of 5kHz.

26-Mar-11:- 1600 UTC, 8,162 kHz, "134 134 134 00000". Found approx. one minute into the transmission, good signal.

9-Apr-11:- 1600 UTC, 8,162 kHz, still around in April, "134 134 134 00000".

16-Apr-11:- 1600 UTC, 8,162 kHz, "134 134 134 00000", a surprisingly weak signal.

23-Apr-11:- 1605 UTC, 7,612 kHz, "134 134 134 00000". 13 kHz lower than when heard
on 12-march at 1605z, found approx 30 seconds into the transmission when nothing heard
on 7,625. Good signal, heterodyne from a weak BC station on 7,610 removed by using the receiver in USB mode.

Saturday 1930 or 1935 UTC Schedule:-
26-Feb-11:- 1935 UTC, 3,842 kHz, "366 366 366 00000". Weak signal, reasonable copy with the receiver in USB mode.

5-Mar-11:- 1935 UTC, 4,628 kHz, moving up in frequency as the hours of daylight increase,
"366 366 366 00000". Strong signal peaking S9+. Carrier on 4,628 noted at 1927z after a
quick search when no pre-transmission routine found on 3,842.

19-Mar-11:- 1930 UTC, 5,797 kHz, start-up on the half-hour, "366 366 366 00000", S9+ with deep modulation.

2-Apr-11:- 1930 UTC, 5,787 kHz, "366 366 366 00000", 10 kHz lower than last time and a weaker signal, S6 to S7. Has stayed on UTC with the start of British Summer Time so is now on at 8.30 pm.

9-Apr-11:- 1930 UTC, 5,787 kHz, "366 366 366 00000".

16-Apr-11:- 1935 UTC, 4,628 kHz, "366 366 366 00000". Much weaker signal than when heard on this frequency on 5-March.

Saturday 2030 + 2130 UTC Schedule:-
5-Mar-11:- 2030 UTC, 6,791 kHz, "703 703 703 00000", like the other schedules has moved higher in frequency in March. Found approx one minute into the transmission, was on 4,859 kHz in January and February. Signal strength S7 to S8.
2130 UTC, 5,854 kHz, repeat sending, as far as I am aware the other Saturday S06 transmissions do not have a repeat and I didn't realise that this one did until I studied the E2K newsletter. S9+ signal.

19-Mar-11:- 2030 UTC, 6,791 kHz, "703 703 703 00000". S9+ signal, very strong. Carrier up 2005z, tone heard 2013z, single "703" in Rusky after 2015z.
2130 UTC, 5,852 kHz, second sending, I made it two kaycees lower than last time. Weaker than the first sending, complete opposite of when last heard. Also interference from a broadcaster on 5,850.

Couldn't find a 2130z sending on Saturday 2-April.

Monday + Thursday 1900 or 1905 UTC Schedule:-
28-Feb-11, Monday:- 1905 UTC, 3,838 kHz, "349 349 349 00000". Good signal peaking over S9.

3-Mar-11, Thursday:- 1905 UTC, 5,127 kHz, the expected seasonal change of frequency,
heard on this frequency in the springtime last year or at 1900z on 5,784, plus or minus.
"349 349 349 00000". Good signal peaking over S9.

7-Mar-11, Monday:- 1905 UTC, 5,127 kHz, "349 349 349 00000", strong signal.

10-Mar-11, Thursday:- 1900 UTC, 5,771 kHz, "on the hour" start-up, "349 349 349 00000".
Very strong signal with deep audio, copied well on the legendary "DM-906" three quid radio with digital readout and short telescopic antenna from the "Superdrug" store.

14-Mar-11, Monday:- 1905 UTC, 5,127 kHz, "349 349 349 00000".

21-Mar-11, Monday:- 1905 UTC, 5,125 kHz - not 5,127 this evening, usual "no message"
with S9 signal.

28-Mar-11, Monday:- back to 5,127 kHz, 1905 UTC, "349 349 349 00000", S9+. As expected has stayed on UTC with the "spring forward" of the clocks yesterday so now appears at 8.05 pm in the UK instead of 7.05.

31-Mar-11, Thursday:- 1900 UTC, 8 pm British Summer Time, 5,784 kHz, "349 349 349 00000".

7-Apr-11, Thursday:- 1900 UTC, 5,784 kHz, "349 349 349 00000", very strong signal.

11-Apr-11, Monday:- 1900 UTC, 5,784 kHz, "349 349 349 00000"

14-Apr-11, Thursday:- 1900 UTC, 5,784 kHz, "349 349 349 00000".

25-Apr-11, Monday:- 1900 UTC, 5,784 kHz, "349 349 349 00000", strong signal.

Wednesday 1800 or 1805 UTC Schedule:-
9-Mar-11:- 1800 UTC, 5,735 kHz, "471 471 471 00000". S9 signal, heard on this frequency in March last year or alternatively at 1805z on 5,070 kHz

16-Mar-11:- 1800 UTC, 5,735 kHz, "471 471 471 00000".

23-Mar-11:- 1805 UTC, 5,070 kHz, "471 471 471 00000", much weaker signal than when heard on 5,735.

30-Mar-11:- 1805 UTC, 5,070 kHz, now British Summer Time is in force appears at 7.05 pm, "471 471 471 00000".

Second + Fourth Mondays in the Month Schedule:-
14-Mar-11:- expected this S06 Russian OM to show up at 2115 UTC on 7,680 kHz repeated
2215 UTC 5,395 kHz with call "492" because this was the case in March of past few years. However, not found at 2115z but a search at 2215 found the following;-
6,795 kHz, "492 492 492 00000". So looks as if the frequencies have changed although the call remains the same. Presumably the 2115 UTC sending would have been 1 to 2 MHz higher. Carrier on 6,795 noted just after 2200z.

28-Mar-11:- 2115 UTC, 8,070 kHz, "492 492 492 00000", the first sending. Very weak signal, found approx. three minutes into the transmission. 2215 UTC, 6,795 kHz, second sending with a much stronger signal. Has stayed on UTC for the remainder of March following the start of British Summer Time but if it follows the same routine as in previous years in April will shift by one hour to still appear at 9.15 and 10.15 pm in the UK.

11-Apr-11:- 2015 UTC, 10,430 kHz, "121 121 121 00000". Has done the expected one hour shift. The only other number station of this family being so considerate to the intended recipient was the first + third Friday M14 MCW which ran for many years but which I haven't been able to find since December. Signal strength S6 to S7, carrier with tone found 2006z, single Russian "121" after 2008z.
2115 UTC, 8,130 kHz second sending, very weak signal flattened by strong "XJT", unable to confirm S06 until 2118z when - here's a funny thing - the "XJT" went off as though someone had pulled the plug leaving S06 reasonably clear. Even more strange:- strong SSB speech in what appeared to be Spanish language, I am sure this was the XJT transmitter now in voice mode. Unable to understand much of transmission but "Cambio" at end of speech and "Cuatro cero seis" repeated several times and in accented English, "Mike Whisky this is Delta Romeo".

Last year's log shows 9,095 and 7,630 kHz for this schedule in April with call "285".

25-Apr-11:- 2015 UTC, 10,430 kHz, - expected the usual four minutes of "00000" but:-
Calling "121" for a full message! Agent 121 gets a wakeup call, leaps out of his comfortable chair and tries to remember where he hid his one-time decoding pads! I cannot remember when I last heard a full message from this schedule or any other S06 in the UK evening time if it comes to that. DK/GC "849 849 63 63", "24669 92649......ended approx.
2030 UTC, last 5Fs "......89474 08782".
2115 UTC, 8,130 kHz, second sending, good signal, none of the interference noted on the 11th.

26-Apr-11, Tuesday:- 2015 UTC, 10,430 kHz, a full message means a repeat on the following day.
2115 UTC, 8,143 kHz, second sending, 13 kHz up on yesterday, perhaps because of a strong pulse type signal extending from 8,117 to 8,140 kHz approx, over-the-horizon radar perhaps or who knows what?

March 2011

4787kHz 2000z	05/03[837 462 15 34508 ... 42651 462 15 00000(f)] OM +10db		Mndbs	SAT
5798kHz 1900z	17/03[349 00000] Strong		Hans	THU
6810kHz 0900z	29/03[480 327 41 23166 48412....] Weak		Hans	TUE
9073kHz 1217z	21/03[i/p ending: ...23076 30489 268 34 then 975 801/26 01588 93235 .... 41863 801 26 00000] 1223z.		Hans	MON
9225kHz 0930z	10/03[480-762/41=95389...]		Gert	THU
9371kHz 1200z	24/03[352 176/40 20784 29632....] V.weak		Hans, JO	THU

Several errors, first one already in the "352" calls. I gave up monitoring thisone after around 8 mins because of the weak signal and noise.

9371kHz1217z	24/03[352 904 16 27386 57242 22312 LG 93918 - 1220z 904 904 16 16 00000] QSA 3 QSB 3		JanO	THU

April 2011:

5735kHz1800z	20/04[471 00000] Strong		Hans	WED
5784kHz1900z	11/04[349 00000] Strong		Hans	MON
6340kHz0600z	29/04[934 934 934 00000] YL		BR	FRI
6791kHz1900z	02/04[703 703 703 00000]		BR	SAT
6810kHz0900z	04/04[480 561 42 70589 82923 26824...] V.weak		Hans	MON
0900z	19/04[480 356 41 71673 15788 .... 00470] Weak		Hans	TUE
0900z	20/04[480 217 40 34415 80223 .... 54765] very weak, barely audible		Hans	WED
7612kHz 1605z	23/04[134 00000] Strong		Hans	SAT
8130kHz1200z	11/04[480 639 42 40851 22630 .... 09922] 1211z Fair QSB3		Hans	MON
8162kHz 1600z	02/04[134 00000] Strong		Hans	SAT

1600z	16/04[134 00000] 1604z Strong	Hans	SAT
9225kHz 0830z	19/04[480 356 41 71673 15788 .... 00470] Weak/Fair	Hans	TUE
0830z	20/04[480 217 40 34415 80223 .... 54765] 0841z Weak	Hans	WED
16311kHz0930z	08/04[842 670 34 48908 14666 .... 52887] 0940z Weak with echo	Hans	FRI
16318kHz 0931z	29/04[842] Fair strength and echo	Hans	FRI

S06c
April 2011:

10202kHz 0642z	27/04 [11060] 0644z i/p Strong (Restart at 0650z, ended 0654z)	Hans	WED
13972kHz 0700z	19/04[11132] 0704z Strong (i/p)	Hans	TUE
15817kHz 0623z	19/04[11206] 0625z Strong (i/p)	Hans	TUE

S06s
March 2011

4845kHz1410z	17/03[624 918 5 20163]	FN	THU
5320kHz1400z	17/03[624 918 5 20163]	FN	THU
5470kHz0610z	11/03[934 871 5 51371 80394 87586 55656 94256 00000] Strong signal, QRM	FR, FN	FRI
5805kHz1240z	01/03[278 410 5 62307 21065 63450 79651 55298 410 5 00000]Weak/Fair QSB2	Hans	TUE
5760kHz0700z	01/03[374 912 5 63627 93516 67624 54410 63511 912 5 00000]Strong	Hans	TUE
0700z	15/03[374 986 5 35484 35082 25437 68424 49706 986 5 00000]Fair/Strong	Hans	TUE
0700z	29/03[374 374 374 00000]	FN	TUE
6270kHz1420z	03/03[624 00000] Fair/Strong Rpts: 1430z: 6770kHz, 1440z: 7135kHz, 1450z: 7650kHz	Hans	THU
6340kHz0600z	11/03[934 871 5 51371 80394 87586 55656 94256 00000] Strong signal, QRM, QSB	FR, FN	FRI
6415kHz1210z	02/03[481 209 5 54019]	FN	WED
6464kHz1500z	01/03[537 819 6 15357]	FN	TUE
6830kHz1610z	21/03[176 948 5 47732 42554 25407 88664 14515 948 5 00000] Fair	Hans	MON
6930kHz 0715z	22/03 [374 986 5 35484 35082 25437 68424 49706] Fair	Hans	TUE
0715z	29/03[374 374 374 00000]	FN	TUE
7120kHz1200z	02/03[481 209 5 54019]	FN	WED
7242kHz1510z	01/03[537 819 6 15357]	FN	TUE
7320kHz 0800z	08/03[418 930 5 94870 54667 54363 71883 06744 930 5 00000] Weak	Hans	TUE
0800z	15/03[418 260 5 15575 48145 17464 44564 82458 260 5 00000] Strong	Hans	TUE
7335kHz0830z	09/03[745 821 6 71212]	FN	WED
7385kHz1240z	03/03[314 902 5 25269]	FN	THU
7605kHz0820z	02/03[471 802 5 20869]	FN	WED
7620kHz1230z	02/03[967 843 5 18375]	FN	WED
7795kHz0700z	04/03[196 273 5 82790 51738 68186 45553 42820 00000] Very strong	FR	FRI
0700z	11/03[169 273 5 82790 51738 68186 45553 42820 00000] Very strong signal	FR	FRI
0700z	18/03[196 248 5 35150 81821 02555 01960 83157 00000] Very strong signal	FR	FRI
8105kHz1240z	02/03[967 843 5 18375]	FN	WED
8270kHz1910z	30/03[371 371 371 00000]	FN	WED
8650kHz1230z	03/03[314 902 5 25269 82096 13947 54034 55531 902 5 00000] Strong Hans,	FN	THU
1230z	17/03[314 958 6 24351 04221 14022 84187 65862 29148 958 6 00000] Fair/Strong	Hans	THU
8695kHz0710z	04/03[196 273 5 82790 51738 68186 45553 42820 00000] Strong signal, weak noise, QSB	FR	FRI
0710z	11/03[169 273 5 82790 51738 68186 45553 42820 00000] Very strong signal QRM	FR	FRI
0710z	18/03[196 248 5 35150 81821 02555 01960 83157 00000] Very strong signal	FR	FRI
9145kHz1200z	21/03[831 407 5 39884 32781 28301 45273 44070 407 5 00000] Fair	Hans	MON
9220kHz1900z	30/03[371 371 371 00000]	FN	WED

9255kHz 0830z	02/03[471 802 5 20869]	FN	WED
9480kHz 0840z	02/03[328 976 5 53989]	FN	WED
11040kHz 0850z	02/03[328 976 5 53989]	FN	WED
10835kHz 1000z	09/03[153 429 6 99578]	FN	WED
11830kHz 0840z	09/03[745 821 6 71212]	FN	WED
12140kHz 0930z	04/03 [516 902 7 32739 40215 52605 42923 17341 74841 84039 00000] Very strong	FR, FN	FRI
0930z	11/03 [516 902 7 32739 40295 52605 24523 17341 74841 84039 00000] Medium QRM,QSB	FR	FRI
0930z	18/03[516 940 7 65855 64295 56776 97544 54434 53654 38585 00000] V.strong sigs, weak noise	FR, Hans	FRI
0930z	25/03[516 940 7 ... 00000] 0935z Fair	SL	FRI
12170kHz 1010z	09/03[153 429 6 99578]	FN	WED
12355kHz 0610z	01/03[438 962 5 45751 83455 50587 47431 46802 962 5 00000]Weak	Hans	TUE
0610z	08/03[438 962 5 45751 83455 50587 47431 46802 962 5 00000] Fair QSB2	Hans	TUE
0610z	15/03[438 951 6 35555 71176 73422 87755 41963 85501 951 6 00000] Fair/Strong	Hans	TUE
0610z	22/03[438 951 6 35555 71176 73422 87755 41963 85501] Fair	Hans, SL	TUE
0610z	29/03[438 438 438 00000]	FN	TUE
12560kHz 1200z	03/03[425 918 6 67846 35628 90278 88923 82123 76567 918 6 00000] Strong	Hans, FN	THU
1200z	10/03[425 918 6 67846 35628 90278 88923 82123 76567 918 6 0 0 0 0 0]1205z QSA5	JO	THU
1200z	17/03[425 987 6 42053 82914 48527 54184 73101 10585 987 6 00000] Strong Hans,	JO	THU
1200z	24/03[425 987 6 ... 00000] 1205z Good	SL	THU
12952kHz 0900z	03/03[167 928 5 78365]	FN	THU
0900z	17/03[167 948 5 99228 77544 04816 56557 51269 948 5 00000] Fair/Strong	Hans, FN	THU
0900z	24/03[167 498 5 99228 77544 04816 56557 51269] Fair/Strong	Hans	THU
13065kHz 1210z	03/03[425 918 6 67846]	FN	THU
1210z	10/03[425 918 6 67846 35628 90278 88923 82123 76567 918 6 0 0 0 0 0]1205z QSA5	JO	THU
1210z	17/03[425 987 6 42053 82914 48527 54184 73101 10585 987 6 0 0 0 0 0]1215z QSA5	JO	THU
1210z	24/03[425 987 6 ... 00000] 1215z Weak	SL	THU
13365kHz 1000z	02/03[729 864 5 72453]	FN	WED
1000z	09/03[729 864 5 72453 18252 24649 00413 43642 864 5 0 0 0 0 0]1005z QSA5	JO	WED
1000z	16/03[729 806 5 67453 89674 34215 56553 89660 806 5 0 0 0 0 0]1005z QSA5	JO	WED
13515kHz 0940z	04/03[516 902 7 32739 40215 52605 42923 17341 74841 84039 00000] Strong QRM, QSB	FR, FN	FRI
0940z	11/03[516 902 7 32739 40215 52605 24523 17341 74841 84039 902 7 00000] Good	AE, FR	FRI
0940z	18/03[516 940 7 65855 64295 56776 97544 54434 53654 38585 00000] Strong signal, QRM, QSB	FR	FRI
13565kHz 0910z	03/03[167 928 5 78365]	FN	THU
0910z	17/03[167 948 5 99228 77544 04816 56557 51269 948 5 0 0 0 0 0]0915z QSA5	JO, FN	THU
14080kHz 0600z	22/03[438 951 6 35555 71176 73422 87755 41963 85501] Weak/Fair	Hans, SL	TUE
0600z	29/03[438 00000(s)] Fair	Hans, FN	TUE
14505kHz 1010z	02/03[729 864 5 72453]	FN	WED
1010z	09/03[729 864 5 72453 18252 24649 00413 43642 864 5 0 0 0 0 0]1005z QSA5	JO	WED
1010z	16/03[729 806 5 67453 89674 34215 56553 89660 806 5 0 0 0 0 0]1015z QSA4/5	JO	WED

April 2011:

4845kHz 1410z	14/04[624 970 5 21767]	FN	THU
1410z	21/04[462 890 5 48035] weak signal	FN	THU
5320kHz 1400z	14/04[624 970 5 21767]	FN	THU
1400z	21/04[462 890 5 48035]weak signal FN THU		
5470kHz 0610z	01/04[934 806 5 43157]	FN	FRI
5760kHz 0700z	12/04[374 218 5 50297 15244 64985 35524 83371] Weak	Hans	TUE
5805kHz 1240z	05/04[278 906 5 75858]	FN	TUE
6340kHz 0600z	01/04[934 806 5 43157 03875 87102 23559 55363] Fair	Hans, FN	FRI
0600z	29/04 [934 000] Weak	Hans	FRI
6415kHz 1210z	06/04[481 296 5 20163] weak signal	FN	WED
6464kHz 1500z	12/04[537 412 6 84480]	FN	TUE
1500z	26/04[537 894 6 48428 45313 34571 64497 55259 84845] Weak digi-QRM3	Hans	TUE
6930kHz 0715z	05/04[374 218 5 50297 15244 64985 35524 8337]	GD, FN	TUE
0715z	12/04[374 218 5 50297 15244 64985 35524 83371] Strong	Hans	TUE

7120kHz 1200z	06/04[481 296 5 20163]	FN	WED
7242kHz1500z	12/04[537 412 6 84480]	FN	TUE
1510z	26/04[537 894 6 48428 45313 34571 64497 55259 84845] Fair	Hans	TUE
7320kHz0800z	05/04[418 960 5 49523 35895 82654 55555 57289]	GD, FN	TUE
7335kHz 0830z	06/04[745 286 9 55637]	FN	WED
7385kHz1240z	07/04[314 892 5 46062]	FN	THU
7605kHz 0820z	06/04[471 295 6 54718]	FN	WED
0820z	20/04[471 830 6 96587 41896 80891 52956 13524 51786] Weak	Hans	WED
7620kHz1230z	13/04[967 284 5 94682]	FN	WED
7795kHz 0600z	29/04 [196 000] Weak	Hans	FR
8105kHz1240z	13/04[967 284 5 94682]	FN	WED
8270kHz1910z	20/04[371 402 6 84459 72528 50628 45812 95668 45147] Fair	Hans	WED
8650kHz 1230z	07/04[314 892 5 46062]	FN	THU
9145kHz 1200z	04/04[831 472 6 10928 76843 67332 91765 33990 56743] Fair	Hans	MON
9220kHz 1900z	06/04[371 980 5 99228]	FN	WED
1900z	20/04[371 402 6 84459 72528 50628 45812 95668 45147] Weak QRN3	Hans	WED
9255kHz0830z	06/04[471 295 6 54718]	FN	WED
9480kHz 0840z	06/04[328 475 6 31055]	FN	WED
9840kHz0810z	05/04[418 960 5 49523]	FN	TUE
10350kHz 1200z	02/04[254 837 6 50050 54558 34745 58575 48805 57985] Fair (1210z not found)	Hans	SAT
10420kHz 0810z	05/04[352 987 6 66651 85324 35734 54225 35862 64030] Weak	Hans	TUE
0810z	19/04[352 408 6 78154 55724 92173 83623 58565 99120] Fair	Hans	TUE
10835kHz0530z	13/04[153 468 7 79646]	FN	WED
11040kHz 0850z	06/04[328 475 6 31055]	FN	WED
0850z	20/04[328 591 6 74856 44856 55958 09475 94584 44532] Strong	Hans	WED
113065kHz1210z	07/04[425 980 6 73268]	FN	THU
11460kHz1210z	11/04[831 472 6 10928 76843 67332 91765 33990 56743] Weak	Hans	MON
11635kHz 0800z	05/04[352 987 6 66651 85324 35734 54225 35862 64030]	GD	TUE
0800z	12/04[352 987 6 66651 85324 35734 54225 35862 64030] Strong	Hans	TUE
11830kHz 0840z	06/04[745 286 9 55637]	FN	WED
0840z	20/04[745 932 6 38165 35446 57922 57857 95144 18454] Fair	Hans	WED
12140kHz 0933z	01/04[516 248 7 17424]	FN	FRI
12170kHz0540z	13/04[153 468 7 79646]	FN	WED
12355kHz0610z	05/04[438 957 6 10672]	FN	TUE
0610z	12/04[438 957 6 10672 39486 56473 09918 67823 60156] Weak	Hans	TUE
0610z	19/04[438 279 5 21065 63450 79651 55298 63207] Strong	Hans	TUE
12560kHz 1200z	07/04[425 980 6 73268]	FN	THU
12930kHz0810z	14/04[n.hrd. QRM5 Dig station]	FN	THU
12952kHz0900z	14/04[167 942 5 34244]	FN	THU
0900z	21/04[167 832 5 33356]	FN	THU
13355kHz1010z	13/04[729 538 6 71677]	FN	WED
13365kHz1000z	20/04[729 541 6 47442 67525 28187 03655 85024 48133] Strong	Hans	WED
13515kHz 0944z	01/04[516 248 7 17424]	FN	FRI
13565kHz0910z	14/04[167 942 5 34244]	FN	THU
0910z	21/04[167 832 5 33356]	FN	THU
14080kHz0600z	05/04[438 957 6 10672 39486 56473 09918 67823 60156] Weak	Hans, FN	TUE
0600z	12/04 Too weak to copy	Hans	TUE

0600z	19/04[438 279 5 21065 63450 79651 55298 63207] Strong		Hans	TUE
14260kHz 0800z	14/04[674 910 5 40015] EE speaking YL, stops in mid txt		FN	THU
14505kHz 1000z	13/04[729 538 6 71677]		FN	WED
1010z	20/04[729 541 6 47442 67525 28187 03655 85024 48133] Strong		Hans	WED

S11a[III]

March/April:

4909kHz 1355z	18/04[254/00] Very weak		RNGB	MON
5815kHz 1020z	02/03[220/33 09761 24112 91515 71628 64238…..98706] Konyets 1033z		RNGB	WED
	An unusual 5min 30s call-up before start of message			
1020z	09/03[221/00]		RNGB	WED
1020z	30/03[221/00]		RNGB	WED
1020z	02/04[221/00] Weak		Hans	SAT
1020z	30/04[228/31 V 16130 97670...] V.weak (Not sure of these numbers)		Hans	SAT
9960kHz 1020z	01/03[420/35 68259 68071 09512 82104 77261…..41344] Good		RNGB	TUE
1020z	08/03[426/00]		RNGB	TUE
1020z	11/03[426/00] Good		RNGB, Hans	FRI
1020z	18/03[426/00] Fair		Hans	FRI
1020z	29/03[426/00] Fair		RNGB	TUE
1020z	01/04[426/00] Good		RNGB	FRI
1020z	05/04[426/00] Fair		Hans	TUE
1020z	08/04[426/00] Good		RNGB, Hans	FRI
1020z	12/04[427/37 62539 43802 60852 08681 12330…..32970] Good		RNGB	TUE
1020z	19/04[426/00] Konyets 1023z	(3m15s)	PLondon	TUE
1020z	22/04[426/00] Weak, QRM3. End not heard		PLondon	FRI
1020z	29/04[426/00] Weak QSB2		Hans	FRI
16112kHz 1015z	14/04[475/00] Good		RNGB	THU
1015z	21/04[475/00] Fair, QSB faded before end.		PLondon	THU
1015z	25/04[477/32 V77327…..77524] Konyets 1025z Noisy and weak	(10m11s)	PLondon	MON
1015z	28/04[477/32…..] Fair QRM3/4		PLondon	THU

S21 [XIV]
March 2011:

4454kHz 1842z	17/03[454 782/30 58849 50745 .... 74670] 1852z //4854 Strong		Hans	THU
4854kHz 1842z	17/03[454 782/30 58849 50745 .... 74670] 1852z //4454 Strong		Hans	THU
1842z	22/03[454 782/30 58849 50745....] Strong DIGI-QRM4. str carrier only on //4454kHz		Hans	TUE

April 2011:

4454kHz 1842z	21/04[454 374 30 35565 08212 .... 97911] 1853z Strong		Hans, GD	THU
4854kHz 1842z	21/04[454 374 374 30 30 ....]		GD	THU

V02a [XVIII]

PoSW's logs

1-Mar-11, Tuesday:- 0700 UTC, 5,883 kHz, "Atencion, 86522 23881 72621", S9 signal.

3-Mar-11, Thursday:- 0700 UTC, 5,883 kHz, "Atencion, 14062 70802 30622".

4-Mar-11, Friday:- 0700 UTC, 5,800 kHz, started up on the wrong frequency with "Atencion, 17241 48151 46512". Suddenly vanished at approx. 30 seconds past the hour and re-appeared on the correct frequency, 5,883 kHz.

5-Mar-11, Saturday:- 0700 UTC, 5,883 kHz, "Atencion, 41341 43301 17231". Must have started exceptionally early, call-up in progress when tuned in 30s before the hour, "41341"
repeated and into 5Fs 0701z.
0758 UTC, early start, 5,898 kHz, "41341 43301 17231" - as earlier.

6-Mar-11, Sunday:- 0738 UTC, 5,883 kHz, last few minutes of a transmission, S9 signal, ended after 0741z with 3 x "Finale"
0800 UTC, 5,883 kHz, started 30s before the hour and on the wrong frequency. "Atencion,
42432 12121 41762". Was still on 5,883 at 0810z.

8-Mar-11, Tuesday:- 0700 UTC, 5,883 kHz, "Atencion, 22712 27732 72501"

11-Mar-11, Friday:- 0700 UTC, 5,883 kHz, "Atencion, 31382 35281 77531".

12-Mar-11, Saturday:- 0800 UTC, 5,898 kHz, "Atencion, 12872 88582 82211". Weak signal, difficult copy.

13-Mar-11, Sunday:- 0800 UTC, 5,898 kHz, "Atencion, 56481 78572 00221".

17-Mar-11, Thursday:- 0700 UTC, 5,883 kHz, "Atencion, 54491 06801 40222".

19-Mar-11, Saturday:- 0700 UTC, 5,898 kHz - wrong frequency for 0700z start - "Atencion, 00442 54521 04372". Vanished from 5,898 after 0704z and re-appeared on 5,883.
0759 and 20s UTC, early start, 5,898 kHz, "00442 54521 04372" - as earlier.

20-Mar-11, Sunday:- 0659 and 20s UTC, 5,883 kHz, "Atencion, 85332 87751 81472".
0759 and 20s UTC, 5,898 kHz, "85332 87751 81472" again.

22-Mar-11, Tuesday:- 0700 UTC, 5,883 kHz, "Atencion, 45241 14722 70672". Interference from a strong CW station on a close frequency sending groups of five letters.

24-Mar-11, Thursday:- 0659 and 15 seconds UTC, 5,883 kHz, "Atencion, 03231 72222 07521".

25-Mar-11, Friday:- 0700 UTC, 5,883 kHz, tuned in this morning and found not the Cuban YL but MCW Morse, presumably M08a, sending, "AWIDN WRNNA DUAGA"

26-Mar-11, Saturday:- 0700 UTC, 5,883 kHz, the usual voice this morning, "Atencion, 50071 46271 21211".

27-Mar-11, Sunday:- 0659 and 15s UTC, early start, 5,883 kHz, "Atencion, 40831 45372 74681". Summer Time started this morning, V02a stays on UTC so now appears one hour later local time.

0759 and 15s UTC, 5,898 kHz, "40831 45372 74681" again.

2-Apr-11, Saturday:- 0700 UTC, 5,883 kHz, "Atencion, 80841 00841 48681".
0800 UTC, 5,898 kHz, MCW Morse instead of voice, "NAGAN IGDRA IWTWA",
then "NAGAN" repeated followed by "= = =" and into groups of letters at 0802z.

10-Apr-11, Sunday:- 0700 UTC, 5,883 kHz, carrier only, no voice when monitored until 0705z.

March 2011

Freq/Time	Date/Log		Observer	Day
4174kHz 0300z	14/03[A72612 26542 74102] fair		gil	MON
5135kHz 0100z	19/03 YLSS "Atencion" into 5# groups		Rich	SAT
5417kHz 0200z	04/03[A18771 8.722 ..762] Very weak sig, start of every number cut off		dj	FRI
0200z	25/03 Unreadable due to audio dropouts.		dj	FRI
5883kHz 0700z	01/03[A86522 23881 72671 LG08133] Finalé(R3) 0742z Strong.			
	0800z sent msg#1 for 10 minutes then off.	(42m05s)	DanAr PLdn	TUE
0700z	03/03[A14062 70802 30622 LG84734]Finalé(R3) 0743z Weak, QSB2	(42m38s)	PLdn	THU
0700z	04/03[A17241 48151 46512 LG06559] Fimalé(R3) 0743z Fair to weak, QSB2	(42m30s)	DanAr, PLdn	FRI
0659z	05/03[A41341 43301 17231 LG12137]Finalé(R3)0740z Strong	(40m40s)	PLdn	SAT
0659z	06/03[A42432 12121 41762 LG80462]Finalé(R3) 0742z Fair	(42m37s)	DanAr, PLdn	SUN
0800z	06/03[A42432 12121 ....] Ran for 23mins		DanAr	SUN
0659z	07/03[A61222 28652 41732 Last sent grp 7808] Fair. Ended prematurely with SK01		PLdn	MON
0700z	08/03[A22712 27732 72501 LG02304] Finalé(R3) 0742z Fair, QSB2	(41m38s)	PLdn	TUE
0700z	10/03 Blank Carrier, Strong		PLdn	THU
0700z	11/03[A31382 35281 77531 LG 41624] -Low signal and QRN5-		DanAr, PLdn	FRI
0700z	12/03[A62001 02141 54082 LG 21621]		DanAr, PLdn	SAT
0659z	13/03[A56481 78572 00221 LG88532] Finalé(R3) Fair, QRN3	(42m24s)	PLdn	SUN
0700z	14/03[A76531 05612 58302 LG26633] Finalé(R3) 0743z Fair, QRM2 at end	(42m46s)	PLdn	SUN
0700z	14/03[A76531 05612 58302 LG26633] Finalé(R3) 0743z Fair, QRM2 at end	(42m46s)	PLdn	MON
0659z	15/03[A67001 65051 78731 LG68145] Finalé(R3) 0741z Strong	(42m22s)	PLdn	TUE
0700z	17/03[A54491 06801 40222 LG79217] Finalé(R3) 0742z Strong	(42m23s)	DanAr, PLdn	THU
0659z	18/03[A12271 60422 75862 LG23677] Finalé(R3) 0741z Strong	(42m24s)	DanAr, PLdn	FRI
0705z	19/03[n nnnnn 54521 04372 LG53001]Finalé(R3) 0741z Strong to fair by end	(42m13s)	PLdn, DanAr	SAT
0659z	20/03[A85332 87751 81472 LG22335] Finalé(R3) 0741z Fair	(42m14s)	PLdn	SUN
0659z	21/03[A26822 78561 26011 LG33677]Finalé(R3) 0741z Strong, SK01 at start	(42m20s)	DanAr, gil, PLdn	MON
0659z	22/03[A45241 14722 70672 LG55205]Finalé(R3) 0741z Strong	(42m20s)	DanAr, PLdn	TUE
0659z	24/03[A03231 72222 07521 LG05275]Finalé(R3) 0741z Weak, noisy	(42m20s)	PLdn	THU
0659z	26/03[A50071 46271 21211 LG93269] Finalé 0741z Strong	(42m10s)	PLdn	SAT
0659z	27/03[A40831 45372 74681 LG33578] Finalé(R3) 0741z Strong, QRN2	(41m58s)	PLdn	SUN
0700z	29/03[A62352 02311 62832] Weak to unreadable		PLdn	TUE
0659z	31/03[A23432 32381 84222 LG15061]Strong	(42m14s)	PLdn	THU
5898kHz 0800z	01/03[(A86522) 23881 72671 {LG70142]Finalé(R3) 0842z Fair. 9m51s not transmitted at start			
	[see 5883 01/03]	(42m06s)	PLdn	TUE
0800z	03/03[A14062 70802 30622 LG84734]Finalé(R3) 0842z Fair, QSB2	(42m32s)	PLdn	THU
0800z	04/03[A17241 48151 46512 LG06559] Fimalé(R3) 0842z Fair to weak, QSB2	(42m28s)	PLdn	FRI
0759z	05/03[A41341 43301 17231 LG12137]Finalé(R3)0840z Strong, QSB2 at end	(40m40s)	PLdn	SAT
0722z	06/03[41762 LG80462]Finalé(R3) 0842z Fair first groups missing	(42m37s)	PLdn	SUN
0759z	07/03[A61222 28652 41732] Fair, noisy. Ended prematurely with SK01		PLdn	MON
0800z	08/03[A22712 27732 72501 LG02304] Fair, QSB to nil before end.	(41m38s)	PLdn	TUE
0800z	10/03[A02602 17842 47082 LG47566] Finalé(R3) Fair	(42m32s)	PLdn	THU
0800z	12/03[A12872 88582 82211] Then QRN4/5 impossible to copy		PLdn	SAT
0800z	13/03[A56481 78572 00221 LG88532] Finalé(R3) Fair, QRN2 QSB2/3	(42m24s)	PLdn	SUN
0800z	14/03[A76531 05612 58302 LG16078] Finalé(R3) 0843z Fair	(42m46s)	PLdn	SUN
0800z	14/03[A76531 05612 58302 LG16078] Finalé(R3) 0843z Fair	(42m46s)	PLdn	MON
0759z	15/03[A67001 65051 78731] Fair,QSB2 fading to nil		PLdn	TUE

0800z	17/03[A54491 06801 40222 LG79217] Weak, readable. QSB3 at end		PLdn	THU
0759z	18/03[A12251 60422 75862 LG75330] Finalé(R3) 0841z Fair, QRM2, QSB2 towards end	(42m24s)	PLdn	FRI
0759z	19/03[A00442 54521 04372 LGnnn00]Finalé(R3) 0841z Strong to weak by end. Local QRM3	(42m13s)	PLdn	SAT
0759z	20/03[A85332 87751 81472] 0833z Fair, QRM2 Finished prematurely mid msg 3		PLdn	SUN
0759z	21/03[A26822 78561 26011 LG33677]Finalé(R3) 0841z Strong, QSB2	(42m20s)	PLdn	MON
0803z	22/03[A45241 14722 70672 LG55205]Finalé(R3) 0841z Fair,start 2m38z	(42m20s)	PLdn	TUE
0759z	24/03[A03231 72222 07521] Very weak, noisy with QSB2. Unreadable		PLdn	THU
0759z	26/03[A50071 46271 21211] Fair; changed to SK01 at 0826z		PLdn	SAT
0759z	27/03[A40831 45372 74681 LG60288] 0841z Fair to Weak at end. Restart 48s into sending		PLdn	SUN
0759z	28/03[55202 84552 74101] Strong		Sage	MON
0800z	29/03 Carrier to start, weak characters to unreadable		PLdn	TUE
0759z	31/03[A23432 32381 84222 LG131nn]Weak, QRM2, QSB	(42m14s)	PLdn	THU
6768kHz 0100z	05/03 [ ] mostly over, no idents.		JonFL, RR	SAT
0400z	07/03[A66241..] Fair up late i/p, stopped at 0412z		Gil, dj	MON
0400z	28/03[A54361 07442 02171] Good sig. Strong sig, poor audio.		dj	MON
6855kHz 0301z	07/03[A66241..] Strong up early		Gil, dj	MON
0300z	14/03[A12822 21162 25832] strong		gil	MON
0300z	28/03[A54361 07442 02171] Good sig. Strong sig, lousy audio.		dj	MON
7519kHz 0109z	12/03[. 32731 .] end 0141z fair (mixed with Family Radio)		gil	SAT
7520kHz 0202z	12/03[A07301 . .] end 0141z (mixed with Family Radio) fair LSB		gil, dj	SAT
7554kHz 2000z	24/03 i/p changing to CW 2013z, 3 grps then QRT 2013z		Sage	THU
8186kHz 0800z	26/03 VG sig. Caught late.		dj	SAT
9040kHz 0901z	09/03[A12291 51812 22411] weak		gil	WED
0900z	16/03 .... Very weak sig, bad audio too.		dj	WED
9240kHz 1000z	09/03[A12291 ....]Very weak sig		dj	WED
1000z	16/03[A30151 31731 78561 Weak sig.		dj	WED
12180kHz 1900z	03/03 [..... ....] Very weak sig. Up late IP. Started as MCW, switched to CW, then V2a		dj	THU
1900z	31/03 I/P Strong** buried under mcw carrier and audio so strong that the words were distorted.		Sage	THU
13380kHz 2000z	03/03[A84061 60012 02102] Weak sig		dj	THU
2013z	08/03[i/p] lsb fair		Gil	TUE
2000z	10/03[A1681 45748 2100]		dj, gil	THU
2000z	15/03[2000z 15/03[A58431 38132 80342] fair		gil, Sage	TUE
2000z	29/03[A63772 27722 27311] Weak sig. Sig carried V2a and coverage of a soccer match.		Dj, Sage	TUE

April 2011

4035kHz 0400z	04/04[A 6830. ..172 1122.] Blkd by a periodic carrier		dj	MON
0400z	11/04[A02551 85751 85552] Weak sig		dj	MON
5883kHz 0700z	01/04[A25322 42741 62132 LG07711]Finalé(R3) 0743z Weak, QRM2/3	(42m50s)	PLdn, DanAr	FRI
0659z	03/04[A77641 22751 28021 LG22560]Finalé(R3) 0741z Fair, weak to end, QRM2/4	(41m36s)	Hans,PLdn	SUN
0659z	04/04[A18771 67121 83422 LG38587]Finalé(R3) 0741z Strong	(41m45s)	PLdn	MON
0700z	05/04[A 81052 06312 70082 - YL/SS]		MS	TUE
0700z	07/04[A57301 48782 57322]		GD	THU
0659z	10/04 Carrier only		PLdn	SUN
0700z	11/04[A 67321 33631 04541] Weak QSB3		Hans	MON
0700z	15/04[A 16301 10562 65511] (YL/SS)		MS	FRI
0659z	11/04[A2242n 2836n 76411] Very weak and noisy		PLdn	SUN
0700z	21/04[A41227 73752 11781]		GD	THU
5898kHz 0800z	01/04[A25322 42741 62132] Fair/Strong		Hans,PLdn	FRI
0759z	04/04[A18771 67121 83422] Weak, QRN3, QSB to nil		PLdn, Hans	MON
0800z	05/04[A 81052 06312 70082 - YL/SS]		MS	TUE
0759z	10/04 Carrier only		PLdn	SUN
0800z	16/04[A58941 71731 78331] Weak QSB3		Hans	SAT
6766kHz 0400z	11/04[8.172 86802 9..2.]Caught late. Expected on 6768		dj	MON
6768kHz 0400z	18/04[A21582 00251 88052]		dj	MON
6855kHz 0300z	04/04 .... Blkd by a periodic carrier		dj, MS	MON

Blkd: skeds sound like they are being blocked by an empty carrier that is xmted at the beginning of each number. Lasts about 1/2 second and sounds like it is actually triggered by the audio.[dj].

6855kHz 0300z	11/04 .... Good sig. Up late, Caught late		dj	MON
0300z	18/04 YL/SS Tough copy Transmitter problems?		RICH, dj	MON
9040kHz 0900z	06/04[A27341 70671 26721] Weak sig		dj	WED
0900z	13/04A[37252 42472 53512] Good sig		dj	WED

	0900z	27/04[A27531 57332 24211]	dj	WED

13380kHz	2000z	07/04 I/P Over modulated and unintelligible	Sage	THU
	2000z	19/04[24222 34343 35450]? QRN	Sage	TUE
	2000z	26/04[A47202 71631 75352] Weak sig. Poorly modulated signal.	dj	TUE
	2000z	28/04[A 76871 13386 33762 Weak sig. Poorly modulated again	dj	THU

V07 [IB]

Nothing heard from this one for sometime…….

Freq list vs month from AnonUK:

January	0600 10879	0620 12179	0640 13479 814
February	0600 13366	0620 14866	0640 16266 382
March	0600 14387	0620 16087	0640 17487 304
April	0600 14387	0620 16087	0640 17487 304
May	0600 14621	0620 16321	0640 17521 635
June	0600 14621	0620 16321	0640 17521 635
July	0600 13837	0620 14937	0640 16697 896
August	0600 13837	0620 14937	0640 16697 896
Sept	0600 13381	0620 14781	0640 16281 372
October	0600 14521	0620 15821	0640 17421 584
November	0600 12152	0620 13552	0640 14952 159
December	0600 9272	0620 10672	0640 12172 261 [Tnx AnonUK]

V13 [0]
March 2011
See http://www.youtube.com/watch?v=nEh-wCByCcM

04/03

9505kHz	1200z	04/03 USB V13 CCYL New Star #4. Msg set: 03-1. Weak. Very poor readability. Caught late, at 1230z. Apparently faded in toward the end of the schedule. There was no signal present when the transmission would have started.	dj	FRI

08/03

9505kHz	1200z	08/03 USB V13 CCYL New Star #4. Msg set: 03-1. Weak. Poor readability.	dj	TUE
9505kHz	1300z	08/03 USB V13 CCYL New Star #4. Msg set: 03-1. Weak. Poor readability.	dj	TUE

Units: 12073 (46 grps), 13690 (47 grps), 10988 (43 grps), 16343 (41 grps) 16769 (43 grps)

14/03

9505kHz	1200z	14/03 USB V13 CCYL New Star #4. Msg set: 3-2. Good sig.	dj	MON
9505kHz	1300z	14/03 USB V13 CCYL New Star #4. Msg set: 3-2. Good sig.	dj	MON

Units: 19386 (44 grps), 12188 (42 grps), 10387 (41 grps), 16403 (40 grps) 16861 (44 grps)

19/03

New message set.

9505kHz	1200z	19/03 USB V13 CCYL New Star #4. Msg set: 3-3. Good sig.	dj	SAT
9505kHz	1300z	19/03USB V13 CCYL New Star #4. Msg set: 3-3.	dj	SAT

Units: 15161 (47 grps), 12396 (45 grps), 13546 (45 grps), 14283 (87 grps) 10836 (42 grps)

Note that the initial preamble for unit 14283 indicated a group count of 87. The unit was actually sent two identical 41-group messages. Details on kentfoto dot com slash spooks.

20/03

9505kHz	1200z	20/03 USB V13 CCYL New Star #4. Msg set: 1-3-3. VG sig.	dj	SUN
9505kHz	1300z	20/03 USB V13 CCYL New Star #4. Msg set: 1-3-3.	dj	SUN

21/03

9505kHz	1200z	21/03 USB V13 CCYL New Star #4. Msg set: 1-3-3. Good sig.	dj	MON
9505kHz	1300z	21/03 USB V13 CCYL New Star #4. Msg set: 1-3-3.	dj	MON

Units: 15161 (47 grps), 12396 (45 grps), 13546 (45 grps), 14283 (87 grps) 10836 (42 grps)

26/03

9505kHz	1200z	26/03 USB V13 CCYL New Star #4. Msg set: 03-4. Good sig.	dj	SAT
9505kHz	1300z	26/03 USB V13 CCYL New Star #4. Msg set: 03-4.	dj	SAT

Units: 12328 (46 grps), 13401 (44 grps), 14957 (45 grps), 10729 (47 grps) 13909 (41 grps)

28/03

9505kHz 1200z28/03 USB V13 CCYL New Star #4. Msg set: 03-4. Good sig.	dj	MON
9505kHz 1300z28/03 USB V13 CCYL New Star #4. Msg set: 03-4. Good sig.	dj	MON

Units: 12328 (46 grps), 13401 (44 grps), 14957 (45 grps), 10729 (47 grps) 13909(41 grps)

April 2011:

Ary advises freqs in use since 01/04 and also sends at 0500 and 0600z - thanks Ary.

17/04

New frequency and message set.

9725kHz 1200z17/04 USB V13 CCYL New Star #4. Msg set: 11-04-1.		dj	SUN
09725kHz 1300z17/04 USB V13 CCYL New Star #4. Msg set: 11-04-1. Good sig.		dj	SUN

Units: 19386 (40 grps), 13546 (41 grps), 14957 (40 grps), 10387 (41 grps) 16861 (43 grps)

19/04

9725kHz 1200z 19/04 USB V13 CCYL New Star #4. Msg set: 11-04-1. sent preambles 2x, then sig dropped out		dj	TUE

1300z schedule was a no-show.

23/04

9725kHz 1200z 23/04 USB V13 CCYL New Star #4. Msg set: 11-04-2.		dj	SAT
9725kHz 1300z 23/04 USB V13 CCYL New Star #4. Msg set: 11-04-2. Weak		dj	SAT

Units: 15161 (40 grps), 12188 (44 grps), 13401 (48 grps), 10729 (43 grps) 10836 (43 grps)

30/04

9725kHz1200z30/04 USB V13 CCYL New Star #4. Msg set: 11-04-3.		dj	SUN
9725kHz1300z30/04 USB V13 CCYL New Star #4. Msg set: 11-04-3. QRM.		dj	SUN

Units: 12396 (42 grps), 12328 (46 grps), 14283 (88 grps*), 16403 (41 grps) 17909 (47 grps)

*Unit 14283 was sent two 44-group messages while the initial preamble reported
88 groups. (don't ask me why... they're spooks!)

V21 [Babbler]
April 2011:

5637kHz 1254z	19/04 Fair to good signal, usual long pause's, varying speed of reading and background noise's.		SR	TUE

V24 and M94

Changes, from T

Most transmissions seem to have changed and some frequency / time combinations have new music, possibly indicating that although the frequency and time are the same the recipient might be different.

On May 1 I also wrote that although V24 / M94 was in transition the frequencies used and time frames were the same as before, 4500, 4600, 4900, 5115, 5715, 6215, 6330, and 6730 kHz between the times of 1200 to 1630 UTC. This is incorrect after May 1 (although was correct up until that day, through the end of April).
While I can not yet confirm all frequencies (only 4600, 5715, 6215,and 6330 have been used so far this month that I have been able to receive) I
can for sure say V24 / M94 has moved outside the 1200 to 1630 time frame it has used for years.

This morning there were transmissions at 1100 (6215 kHz), 1120 (5715 kHz), and 1140 UTC (6215 kHz) in addition to transmissions inside the 1200 to 1630 time frame. Nine transmissions total in one day, all V24, from 1100 to 1500 UTC, I have never seen V24 / M94 send that many in one day before. And I did not start looking until 1100 UTC, so there could have been transmissions earlier.

Because of this I can say only a few things about V24 / M94 at this time, and most of them are statements of what I don't know, vs what I do.

V24 / M94 has shifted to using time slots outside the traditional (for them) 1200 to 1630 UTC window. Exactly what these time changes are is unknown at this time, but includes multiple transmissions before 1200 UTC. I have not been able to confirm any transmissions after 1630 UTC, but because of propagation I may not be able to confirm them even if they are happening. The transmission times seem heavily weighted to earlier, instead of later. Most of the transmissions for the last few days appear to be before 1400 UTC. It is possible this weighting of times is caused by my propagation conditions and I might be missing latter transmissions.

V24 has started using time slots ending in 20 and 40 (such as 1120 and 1140), something it has not done in the past several years, and possibly has never done. Time slots ending in 00 and 30 (such as 1300 and 1330) are still being used but so far the 30 time slot has not been seen in combination with a preceding 20 or a following 40 time slot.

Since May 1 no M94 transmissions have been noted, in the same time frame last month there were two. The two M94 time slots and frequencies that should have happened did have transmissions, but they were V24 instead of M94. However, this happened January 1, 2011 also, and eventually M94 fell back into its old time slots.

It is simply going to take some time to figure out the details of all of these changes. In the mean time look for V24 / M94 on all of its old frequencies and in any time slot from at least as early as 1100 and as late as 1630 (and maybe outside of these times as well).

<u>**V26**</u>
March 2011:

9153kHz 1000z	19/03 USB V26 CCYL. Mostly Ch Mandarin, missed preamble. 3-fig groups. Fair readability.	dj	SAT
9153kHz 0939z	20/03 USB V26 CCYL. Mostly Ch Mandarin 3-fig groups. Missed preamble. Very weak.	dj	SUN
9153kHz 1340z	20/03 USB V26 CCYL. Mostly Ch Mandarin 3-fig groups. Missed preamble Very weak.Very poor readability.	dj	SUN
9153kHz 0937z	21/03 USB V26 CCYL. Mostly Ch Mandarin 3-fig groups. Started without preamble. Weak.	dj	MON
9153kHz 1114z	29/03 Chinese station also on 4283, 7553kHz	EW, Token	TUE

<u>**XM Whales**</u>

4485kHz 1830z	04/04 S9+ signal here, VERY noisy....	Hans	MON

<u>**POLYTONES**</u>

<u>**XPA2**</u>

Apart from the apparent regular schedules that seem to turn up RNGB uncovered a marathon sending session on 30thMarch:

12141kHz 1310z	30/03[02198 00069 34691.....03612 00000 00000 01792 00047 88453.....457775]	RNGB	WED

These sendings were repeated at 1313, 1324, 1331, 1354z and all on the same frequency, prompting Richard to write, "There were probably more sendings."

An interesting two message format too, suggesting this sending occurs as a schedule.

Other XPA2 sendings:
March 2011

Sun/Tue

16138kHz 1500z	01/03[04886 00001 00000 10140]	(2m11s)	Hans	TUE
14438kHz 1520z	01/03[04886 00001 00000 10140]	(2m11s)	Hans	TUE
13438kHz 1540z	01/03[04886 00001 00000 10140]	(2m11s)	Hans	TUE
16138kHz 1500z	06/03[03357 00001 00000 10140]Strong	(2m12s)	PLdn	SUN
14438kHz 1520z	06/03[03357 00001 00000 10140]Strong	(2m12s)	PLdn	SUN
13438kHz 1540z	06/03[03357 00001 00000 10140]Fair	(2m12s)	PLdn	SUN
16138kHz 1500z	08/03[03886 00001 00000 10140]Strong	(2m13s)	PLdn	TUE
14438kHz 1520z	08/03[03886 00001 00000 10140]Strong	(2m13s)	PLdn	TUE
13438kHz 1540z	08/03[03886 00001 00000 10140]Strong	(2m13s)	PLdn	TUE
16138kHz 1500z	13/03[08352 00001 00000 10140]Strong	(2m13s)	PLdn	SUN
14438kHz 1520z	13/03[08352 00001 00000 10140]Strong	(2m13s)	PLdn	SUN
13438kHz 1540z	13/03[08352 00001 00000 10140]Strong	(2m13s)	PLdn	SUN
16138kHz 1500z	15/03[00897 00059 28988 74012]Strong	(2m56s)	PLdn	TUE
14438kHz 1520z	15/03[00897 00059 28988 74012]Strong	(2m56s)	PLdn	TUE
13438kHz 1540z	15/03[00897 00059 28988 74012]Strong	(2m56s)	PLdn	TUE
16138kHz1500z	20/03[00897 00059 28988 54130] Fair	(2m56s)	PLdn	SUN
14438kHz1520z	20/03[00897 00059 28988 54130] Fair	(2m56s)	PLdn	SUN
13438kHz1540z	20/03[00897 00059 28988 54130] Fair	(2m56s)	PLdn	SUN
16138kHz1500z	22/03[01352 00001 00000 10140] Fair	(2m11s)	PLdn	TUE
14438kHz1520z	22/03[01352 00001 00000 10140] Fair	(2m11s)	PLdn	TUE
13438kHz1540z	22/03[01352 00001 00000 10140] Fair	(2m11s)	PLdn	TUE
16138kHz 1500z	27/03 [06857 00125 42026 16471] Strong	(3m47s)	PLdn	SUN
14438kHz 1520z	27/03 [06857 00125 42026 16471] Strong	(3m47s)	PLdn	SUN
13438kHz 1540z	27/03 [06857 00125 42026 16471] Strong	(3m47s)	PLdn	SUN
16138kHz1500z	29/03[06857 00125 42026 16471] Strong	(3m47s)	PLdn	TUE
14438kHz1520z	29/03[06857 00125 42026 16471] Strong	(3m47s)	PLdn	TUE
13438kHz1540z	29/03[06857 00125 42026 16471] Strong	(3m47s)	PLdn	TUE

Tue/Thu

|				
5892kHz 2030z	01/03[01991 00001 00000 10140]Strong	(2m11s)	PLdn	TUE
5239kHz 2050z	01/03[01991 00001 00000 10140]Strong BCQRM4	(2m11s)	PLdn	TUE
4639kHz 2110z	01/03[01991 00001 00000 10140]Strong	(2m11s)	PLdn	TUE
5892kHz 2030z	08/03[01991 00001 00000 10140]Very strong	(2m13s)	PLdn	TUE
5239kHz 2050z	08/03[01991 00001 00000 10140]Very strong	(2m13s)	PLdn	TUE
4639kHz 2110z	08/03[01991 00001 00000 10140]Very strong	(2m13s)	PLdn	TUE

5892kHz	2030z	10/03[00661 00225 39403 75057]Strong	(5m03s)	PLdn	THU
5292kHz	2050z	10/03[00661 00225 39403 75057]Very strong	(5m03s)	PLdn	THU
4639kHz	2110z	10/03[00661 00225 39403 75057]Very strong	(5m03s)	PLdn	THU
5892kHz	2030z	15/03[01991 00001 00000 10140]Strong	(2m11s)	PLdn	TUE
5239kHz	2050z	15/03[01991 00001 00000 10140]Strong	(2m11s)	PLdn	TUE
4639kHz	2110z	15/03[01991 00001 00000 10140]Strong	(2m11s)	PLdn	TUE
5892kHz	2030z	17/03[01991 00001 00000 10140]Strong	(2m11s)	PLdn	THU
5239kHz	2050z	17/03[01991 00001 00000 10140]Strong	(2m11s)	PLdn	THU
4639kHz	2110z	17/03[01991 00001 00000 10140]Strong	(2m11s)	PLdn	THU
5892kHz	2030z	22/03[01991 00001 00000 10140]Fair	(2m11s)	PLdn	TUE
5239kHz	2050z	22/03[01991 00001 00000 10140]Fair	(2m11s)	PLdn	TUE
4639kHz	2110z	22/03[01991 00001 00000 10140]Fair	(2m11s)	PLdn	TUE
5892kHz	2030z	24/03[01991 00001 00000 10140] Strong	(2m11s)	PLdn	THU
5239kHz	2050z	24/03[01991 00001 00000 10140] Strong	(2m11s)	PLdn	THU
4639kHz	2110z	24/03[01991 00001 00000 10140] Strong	(2m11s)	PLdn	THU
5892kHz	2030z	29/03[00542 00219 57440 73067]Very strong	(4m59s)	PLdn	TUE
5239kHz	2050z	29/03[00542 00219 57440 73067]Very strong	(4m59s)	PLdn	TUE
4639kHz	2110z	29/03[00542 00219 57440 73067]Very strong	(4m59s)	PLdn	TUE
5892kHz	2030z	31/03[00542 00219 57440 73067]Very strong	(4m59s)	PLdn	THU
5239kHz	2050z	31/03[00542 00219 57440 73067]Very strong	(4m59s)	PLdn	THU
4639kHz	2110z	31/03[00542 00219 57440 73067]Very strong	(4m59s)	PLdn	THU

XPA2
April 2011

XPA2 5077kHz 0240z 07/04/2011
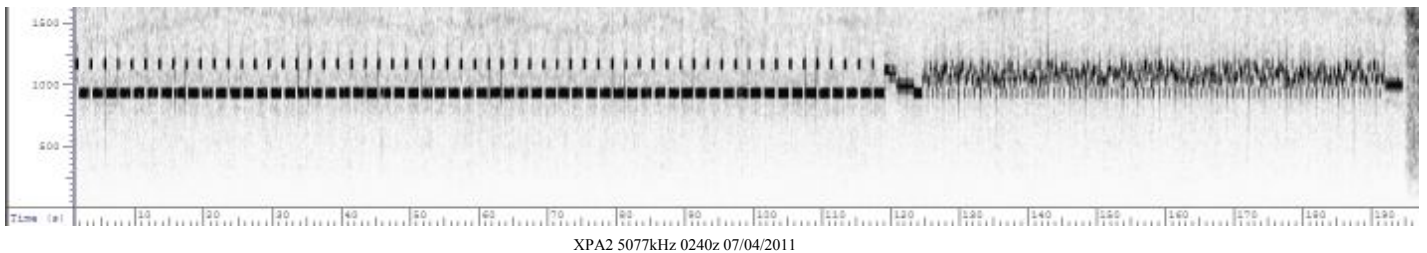
Sun/Mon/Tue/Wed/Thu/Fri

6967kHz	0200z	07/04[04282 00085 05866 12171] Strong; freq incorrect, adj ±1kHz.	(3m27s)	PLdn	THU
5836kHz	0210z	07/04[04282 00085 05866 12171] Strong;	(3m27s)	PLdn	THU
5077kHz	0220z	07/04[04282 00085 05866 12171] Strong;	(3m27s)	PLdn	THU
6967kHz	0200z	11/04[01955 00139 69537 52223] Very strong	(3m57s)	PLdn	MON
5836kHz	0210z	11/04[01955 00139 69537 52223] Very strong	(3m57s)	PLdn	MON
5077kHz	0220z	11/04[01955 00139 69537 52223] Very strong	(3m57s)	PLdn	MON
6967kHz	0200z	13/04[09522 00128 60007 03464] Strong	(3m48s)	PLdn	WED
5836kHz	0210z	13/04[09522 00128 60007 03464] Strong	(3m48s)	PLdn	WED
5077kHz	0220z	13/04[09522 00128 60007 03464] Strong	(3m48s)	PLdn	WED
6967kHz	0200z	17/04[09048 00147 01988 63164] Very strong	(4m03s)	PLdn	SUN
5836kHz	0210z	17/04[09048 00147 01988 63164] Very strong	(4m03s)	PLdn	SUN
5077kHz	0220z	17/04[09048 00147 01988 63164] Very strong	(4m03s)	PLdn	SUN
6967kHz	0200z	19/04[01846 00090 12714 72127] Very strong	(3m20s)	PLdn	TUE
5836kHz	0210z	19/04[01846 00090 12714 72127] Very strong	(3m20s)	PLdn	TUE
5077kHz	0220z	19/04[01846 00090 12714 72127] Very strong	(3m20s)	PLdn	TUE
6967kHz	0200z	22/04[01174 00122 45172 06370] Very strong	(3m44s)	PLdn	FRI
5836kHz	0210z	22/04[01174 00122 45172 06370] Very strong	(3m44s)	PLdn	FRI
5077kHz	0220z	22/04[01174 00122 45172 06370] Very strong	(3m44s)	PLdn	FRI
6967kHz	0200z	25/04[03146 00080 44904 70063] Strong	(3m12s)	PLdn	MON
5836kHz	0210z	25/04[03146 00080 44904 70063] Strong	(3m12s)	PLdn	MON
5077kHz	0220z	25/04[03146 00080 44904 70063] Strong	(3m12s)	PLdn	MON
6967kHz	0200z	28/04[03642 00080 46403 52403]Very strong	(3m11s)	PLdn	THU
5836kHz	0210z	28/04[03642 00080 46403 52403]Very strong	(3m11s)	PLdn	THU
5077kHz	0220z	28/04[03642 00080 46403 52403]Very strong	(3m11s)	PLdn	THU
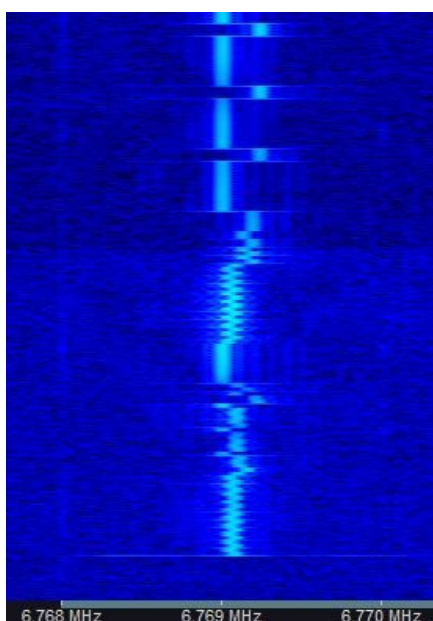
This image shews XPA2 in spectral view as received 6768kHz 2010z 26/04, the message: 04478 00001 00000 10140

The reason the blue background changes is because my ANC-4 Noise remover was switched off to see if the PLT QRM was still there [it was]!

Tue/Thu

7568kHz	1950z	12/04[02491 00001 00000 10140] Very strong			RNGB	TUE
6768kHz	2010z	12/04[02491 00001 00000 10140] Very strong			RNGB	TUE
8068kHz	1930z	14/04[04913 00001 00000 10140] Very strong	(2m11s)	PLdn, RNGB		THU
7568kHz	1950z	14/04[04913 00001 00000 10140] Very strong	(2m11s)	PLdn		THU
6768kHz	2010z	14/04[04913 00001 00000 10140] Very strong	(2m11s)	PLdn		THU
8068kHz	1930z	19/04[04913 00001 00000 10140] Very strong	(2m11s)	PLdn		TUE
7568kHz	1950z	19/04[04913 00001 00000 10140] Very strong	(2m11s)	PLdn		TUE
6768kHz	2010z	19/04[04913 00001 00000 10140] Very strong	(2m11s)	PLdn		TUE
8068kHz	1930z	21/04[04913 00001 00000 10140] Very strong	(2m11s)	PLdn		THU
7568kHz	1950z	21/04[04913 00001 00000 10140] Very strong	(2m11s)	PLdn		THU
6768kHz	2010z	21/04[04913 00001 00000 10140] Very strong	(2m11s)	PLdn		THU
8068kHz	1930z	26/04[04478 00001 00000 10140] Strong	(2m11s)	PLdn		TUE
7568kHz	1950z	26/04[04478 00001 00000 10140] Very strong	(2m11s)	PLdn		TUE
6768kHz	2010z	26/04[04478 00001 00000 10140] Very strong	(2m11s)	PLdn		TUE
8068kHz	1930z	28/04[04478 00001 00000 10140] Very strong	(2m11s)	PLdn		THU
7568kHz	1950z	28/04[04478 00001 00000 10140] Very strong	(2m11s)	PLdn		THU
6768kHz	2010z	28/04[04478 00001 00000 10140] Strong	(2m11s)	PLdn		THU

Mon/Tue/Wed/Fri

13373kHz	1810z	19/04 No details			H-FD	TUE
14362kHz	1800z	27/04[01949 00081 55062 21622]	(3m12s)	Hans		WED
13373kHz	1810z	27/04[01949 00081 55062 21622]	(3m12s)	Hans		WED
12206kHz	1820z	27/04[01949 00081 55062 21622]	(3m12s)	Hans		WED
14362kHz	1800z	29/04[02608 00099 87014 06613]Very Strong	(3m28s)	PLdn		FRI
13373kHz	1810z	29/04[02608 00099 87014 06613]Very Strong	(3m28s)	PLdn		FRI
12206kHz	1820z	29/04[02608 00099 87014 06613]Very Strong	(3m28s)	PLdn		FRI

Vietnamese Station (VTN)

It has been a little while since I reported on the Vietnamese numbers station on 10255 kHz, USB. Mostly this is because the VTN has been sending nothing but an approximate 1kHz tone for a few months.

To recap, the VTN most commonly sends three identical messages per day starting at about 1600 UTC. Actual start times vary but typically the first message starts between 1557 and 1603, with 1600 being the most common.
The station was first reported in February of 2010 with a Vietnamese language YL and 5f format.
The message is read by human but recorded on a PC (PC error sounds have been noted in the audio).
From March of 2010 to September of 2010 all messages have been OM, although it was probably not all the same OM. The station typically
sent the same message many days in a row, so that in the period from February of 2010 to September of 2010 only 5 unique messages were actually noted, despite there being well over 100 individual transmissions.

The last numbers transmission I heard from this station was on September 14, 2010. Starting September 26, 2010 an approximate 1 kHz tone was noted on the frequency starting within seconds of the anticipated start time for the numbers station. This 1 kHz tone lasted about 5 seconds longer than the anticipated numbers transmission.
From September 26, 2010 to March 6, 2011 this activity continued, with the tone occasionally changing duration, as if the message length had changed. These changes in length were about as frequent as changes in message length when voice was being sent. It should be noted that the 1 kHz tone did not contain data, it was a simple 1 kHz tone.
My initial assessment the first few days was that a test tone had been accidently sent instead of the numbers audio. I still believe that is the most likely case for the entire 6 month period, however I am at a loss to explain how such an error could go on so long and remain unnoticed by the operators. Possibly there are other frequencies in use, and this is a backup, that might explain why they were so slow in fixing it or why it went so long undetected if that was the case.

On March 7, 2011, numbers again were noted on the frequency in a post to the E2K Group. This time it was again YL in Vietnamese in 5f format. I have no recordings of March 3 to March 6, 2011, so I am not sure exactly what day the numbers resumed, when the tone transmissions had gone on for so long I started recording only every few days instead of daily.
Interestingly, on March 8, 2011, the day after the report to E2K of voice, the tone again was sent, again a few seconds longer than the message on March 7 and since March 11.

Since March 11, 2011, the station has transmitted three identical messages each day. The start time for the first message is about 1600 UTC. All messages sent since then have been the same 30 group message with the same IDs being sent, each message is identical to all of the others and is apparently a single recording played three times a day.

The current 30 group message length is about 6 minutes and 16 seconds.

- 03/11/2011, 10255 kHz USB, 1600:29 UTC 30 grp msg 1, 1607:06 UTC msg 2, 1613:44 UTC msg 3
- 03/12/2011, 10255 kHz USB, 1600:30 UTC 30 grp msg 1, 1607:08 UTC msg 2, 1613:43 UTC msg 3
- 03/13/2011, 10255 kHz USB, 1600:32 UTC 30 grp msg 1, 1607:08 UTC msg 2, 1613:44 UTC msg 3
- 03/14/2011, 10255 kHz USB, 1600:29 UTC 30 grp msg 1, 1607:05 UTC msg 2, 1613:42 UTC msg 3
- 03/15/2011, 10255 kHz USB, 1600:29 UTC 30 grp msg 1, 1607:05 UTC msg 2, 1613:41 UTC msg 3
- 03/16/2011, 10255 kHz USB, 1600:27 UTC 30 grp msg 1, 1607:03 UTC msg 2, 1613:39 UTC msg 3
- 03/17/2011, 10255 kHz USB, 1600:24 UTC 30 grp msg 1, 1607:51 UTC msg 2, 1615:17 UTC msg 3
- 03/18/2011, 10255 kHz USB, 1600:24 UTC 30 grp msg 1, 1607:49 UTC msg 2, 1615:15 UTC msg 3
- 03/19/2011, 10255 kHz USB, 1600:23 UTC 30 grp msg 1, 1607:50 UTC msg 2, 1615:15 UTC msg 3
- 03/20/2011, 10255 kHz USB, 1600:21 UTC 30 grp msg 1, 1607:47 UTC msg 2, 1615:13 UTC msg 3

Thanks T

Further intercepts:

10255kHz 1600z   21/03 USB YL calling and Vietnamese 5-fig msg acty.   dj   MON

Next, a follow up to the piece on auto-monitoring as requested by a few interested members.

Sound switching

Following the piece in the ENIGMA Newsletter En63 on remote interception a number of emails were received asking what circuit I used.

The circuit was not of my design but was taken from an old RSGB manual on NBFM circuitry.
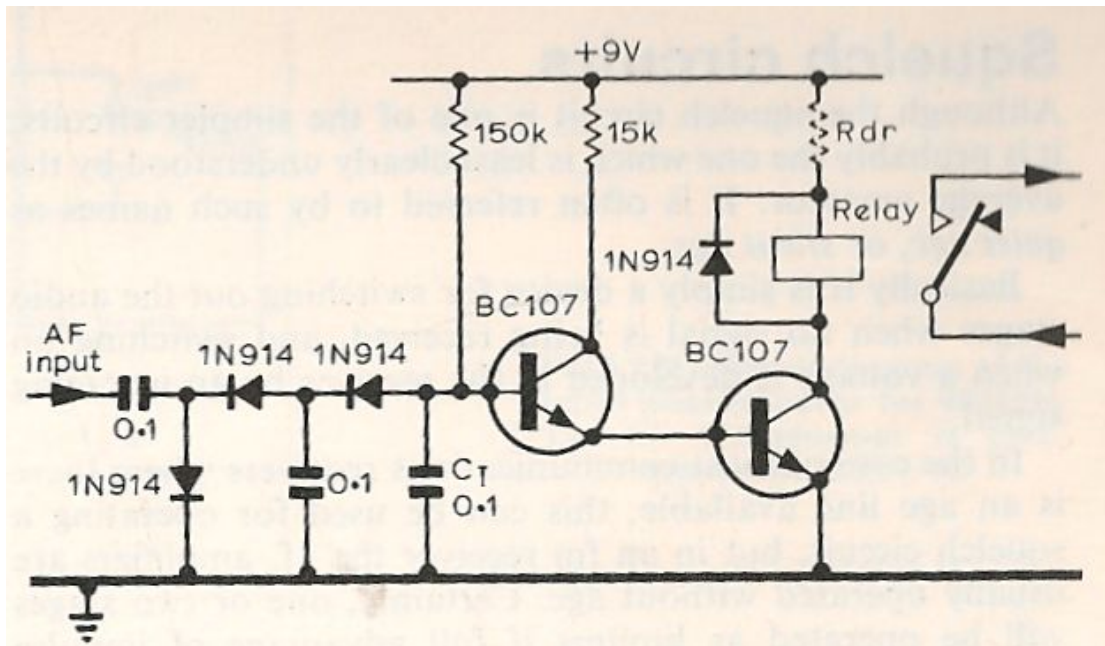
The circuit in its original form was shown as a 'Squelch Control Circuit.' However I saw its potential for cassette recorder control.

So, how does it work? The heart of this circuit is the Darlington Pair formed by the two BC107 transistors. If you don't have these BC108/109,183 and so on all work as did the UHF transistor the BF180.

A reasonable signal on the base of the first transistor causes the relay to change its state [I used a four pole change over relay here with its coil r of 185Ω].

The dotted resistor, Rdr. was selected to limit the current through the second transistor.; the diode across it also a protective component used to stop the back emf ruining the semiconductor. I limited the current around 25mA and used a preset for Rdr..

The 100n capacitor marked C_T sets the time constant for relay switching.

I had no need to modify this value but fitted an electrolytic across the relay coil to ensure a slow switch off. With no auto braking on the cassette player The sound was actually removed about half a second before the unit switched off; if comms commenced before the relay operated the unit continued to record without the accompanying wowing.

Connecting to a radio.

Because I used this with an early scanner I used the headphone out put via a centre tapped driver transformer, the LT44.

I can't recall the specs but I suspect 20kΩ on the tapped winding and 1kΩ on the ther.

Some experimentation called for there methinks but audio from scanner on 1k and audio to the recorder mic socket from 20kΩ and the audio to the switch from one side of the tapped secondary.

Audio I/p to recorder via a suitable potentiometer 1kΩ to allow some control of the audio level.

Using today's components the 1N914 is replaced by the 1N4148.

This circuit allowed unattended recordings to be made efficiently and with tape/time limitation

Apologies to PoSW and readers. Due to a total cock up by PLdn the News Items from PoSW have been lost and will not appear in this issue.

The loss was due to my computer mismanagement causing the loss of data from the NL file and the back-up retained from PoSW's offering.

Gizza Job Mister………

It's an interesting world and certainly somewhere in Central London where GCHQ apparently provides intelligence that protects national security.

Wonder where it is – seems there's a few sites we don't know about in and around London.

Geoff Prime, the disgraced spy worked in London for sometime in a language facility but I wonder what this one does?

You won't need qualifications for this post it says – wonder if anyone will actually apply given the wage?

One place I worked at on 'certain MoD work' used to advertise for engineers. One of our more qualified blokes with a BEng. used to mock, "The ability to read and write could be useful as would an insight into Ohms' Law."

With the money paid here the applicant will obviously have to speak several African languages, one hundred Indian dialects, Arabic and be able to defuse bomb vests whilst sending coded messages at 40wpm on a Morse Key encrypted in their heads.

Remember – say nowt

It's MHz not mHz

Electronic Technicians – yet again!

Looks like the availability of quality Electronic Technicians is a little sparse at the moment. Either there's too many electronic bods who have retrained to become bankers, or no redundant bankers are retraining as electronic technicians ☺

Perhaps our Security Service might like to consider Apprentice Entry or 'Youth in Training' with day release to attract those with an interest from the start.

They could even look at a 'continual service pension' to attract those from the military or even take a walk round Universities and chat to the technicians there.

It seems obvious the right candidate isn't applying – or having applied isn't worth employing.

There's a skills test available online, I achieved 9/10 and faulted on a GSM data speed.
I also had to check a truth table but I did my qualification in early 1970's so not a bad performance methinks.

You need a driving licence and I suspect be young enough not to smell of wee and biscuits so no point in my applying.

Remember, Ferme la bouche on this one and Brits only.

However, not all is lost if you speak Pashto or Somali……………………………………..

If you're already employed……….

Thanks to E we can shew this interesting request for tender on behalf of Interpol.

From the subject of the call for bids it woiuld seem that INTERPOL is at least updating its comms system yet again.

There will be those of us reading this that can recall the days od simple teleprinter interception, or sometimes just Morse.

Despite the antennae dedicated to INTERPOL being sited near to my then place of abode I never knowingly intercepted anything from GMP although I remember intercepting a detailed message from a continental station describing someone they would like the recipients [in South America somewhere] to apprehend.

The news wires were always a good target as were the UN.

Happy Days indeed!

SEE ALSO: "Beady Eyes for Britain" Gizza job special! Page 45

Blast at Moscow bus stop near security academy
http://uk.news.yahoo.com/22/20110309/tpl-uk-russia-blast-aa3debf.html

A blast tore through a bus stop Wednesday 09/03 near Moscow's training centre for the federal security services, injuring no one, police and the national anti-terror committee said.
"An unidentified explosive device blew up at a bus station at about 4.30 pm (1:30 p.m. British time)," said spokesman Nikolai Sintsov, from the national anti-terror committee.

A police spokesman confirmed there were no casualties from the explosion near the FSB Academy, which trains future security officers. The explosion comes on the first day of a visit by U.S. Vice President Joe Biden.

A decade after federal forces drove separatists out of power in a second war in Chechnya, analysts say the Kremlin is waging a losing battle with militants in its mainly Muslim North Caucasus region, who want to carve out a separate Islamic state.

Last week the rebels' Chechen-born leader Doku Umarov threatened in a video address more attacks on major targets across Russia, six weeks after a suicide bomber killed 37 people at Russia's busiest airport.

Interfax news agency quoted the national anti-terror committee as saying there was some damage to cars near the bus stop Wednesday.

(Reporting by Alexei Anishchuk and Tanya Ustinova, writing by Amie Ferris-Rotman)

http://uk.news.yahoo.com/22/20110309/tpl-uk-russia-blast-aa3debf.html

Before you read on about Britain's part in the Middle East you must recall that St Tony of BLiar [Tony Blair] who used Britain to write his CV for his next job a sa Middle East Peace Envoy………you can see the worth of the bloke in this job as Arab State after state rebels against the feudal system of itsTribal ruling class.

SAS had secret computer codes in their pockets
Hala Jaber; David Leppard; Michael Smith; Marie Woolf; Simon McGee; Richard
The Times and The Sunday Times (Times Newspapers Limited.)
Sunday, March 13, 2011, 01:44 PM

THE SAS is facing a serious security breach after Libyan rebels discovered that soldiers captured during a bungled operation were carrying on scraps of paper the usernames and passwords for secret computer systems.
Sources in Benghazi, the largest Libyan city in opposition control, told The Sunday Times last week that they had seized a store of sensitive communications equipment when the MI6 and SAS mission went wrong nine days ago.
The rebels found personal details needed to access the computers on notes among their captives' belongings. "It is so inept, it is unbelievable," one expert said.
The rebels tapped the usernames and passwords into the confiscated computers. One system opened with a screen that read "Sunata deployed". It appeared to be a program for accessing a secure military network.
A rebel source said: "It takes you right into the MoD system in the UK."
Asked whether the rebels had accessed the system, he said: "Yes we did. We were, of course, curious. But as a courtesy to the UK we will not divulge all, but just enough to let them know that we know. It's a good thing this hasn't fallen into enemy hands." The rebels said much of the equipment was marked "Secret: UK eyes only."
One rebel with military experience said: "Some of the communications systems they carried is the stuff that you only see in the movies." He described it as "espionage equipment".

The haul included five laptop computers, six GPS trackers, two "Bgans" — said to be "broadband global area network" systems, eight satellite telephones and shortwave radios, plus lithium batteries and solar panels for recharging.

The Libyans seized maps marking "Suluk" as a landing location in red and "Gaminis" as an extraction point in yellow; passports, including three from different countries in the name of one man; and a fistful of credit cards, mostly from Barclays.

Components for explosives, "portable welding machines", office equipment and five guns were also taken.

A source confirmed that two sophisticated communications systems had been seized. The source claimed this did not leave MI6's systems vulnerable, and that the captured MI6 computer was "clean".

The Ministry of Defence denied that its main network could be accessed.

However, senior MoD sources could give no assurances about systems used by the directorate of special forces.

The captured SAS computers are understood to hold confidential documents.

The Sunday Times has also learnt that the MI6/SAS group was released only after the Foreign Office faxed a plaintive letter to the rebels, requesting "all the usual courtesies" for the captured "diplomatic mission".

Last week one US newspaper mocked the debacle as "Britain's excellent Libyan adventure". William Hague, the foreign secretary, remains under fire and David Cameron is said to be privately furious. The National Security Council is to report on what went wrong.

THE mission was mounted as ministers struggled to formulate a clear policy on the uprising in Libya.

Amid talk of imposing a no-fly zone, they wanted to forge links with the emerging leaders of the opposition to Muammar Gadaffi, the Libyan dictator.

Hague was in telephone contact with Abdul Fattah Younis, a former Libyan minister who has defected from Gadaffi's regime. However, the regime still has control of telecommunications and can intercept calls and cut off networks.

A plan was drawn up to send an MI6 mission into Libya, with Sir John Sawers, the head of the service, and Hague being fully briefed on the details. Hague is said to show an especially close interest in MI6's work and to have approved dozens of secret missions. He says he alerted Libyan rebels to the plans.

The mission's objective, according to government sources, was to establish secure communications with the rebels and scout out a base in Benghazi for British diplomats.

At its core was a young MI6 officer who is a specialist in the Middle East. A Cambridge graduate, he joined the Secret Intelligence Service, as MI6 is known, in 2001, underwent language training in Cairo and served in Iraq. The officer and two other men were accompanied by five SAS soldiers.

Judging by airline boarding passes also seized among their belongings, at least one of the team began the mission by travelling from Cairo to Frankfurt and on to Milan.

The group is believed to have flown from Malta to Crete, where the US has a substantial airbase at Souda Bay, probably to disguise their intentions.

Two special forces Chinook helicopters, equipped with sophisticated navigation systems for low-level night flying, then set off for Libya, probably refuelling en route on the Royal Fleet Auxiliary vessel Argus.

One Chinook carried the team, dressed in black civilian clothes and armed with what were described as five small machineguns; the other was "in the background, hanging around", in case of trouble.

Why was such a clandestine route chosen?

Why did the men not simply cross the border from Egypt or sail into Benghazi? Critics suggest MI6 favours the cloak-and-dagger approach.

And the SAS, according to Patrick Mercer, the Conservative MP who served as a colonel in the army, has developed a tendency when planning operations "not to forget the film rights".

On the other hand, a government source said the route had been chosen because the team was carrying sensitive communication equipment that it could not risk being discovered at any border crossings.

Either way, at 3am on Friday March 4, a Chinook landed near Suluk, a town about 30 miles south of Benghazi. Its target was a farmhouse where Thomas Smith, an honorary consul from the British embassy in Tripoli, had reportedly been working as an administrator for five months.

The area is rural and locals became suspicious when Smith was seen leaving the farm compound at an unusual hour. Helicopters were heard and two cars arrived filled with men in dark clothing who began unloading equipment. Farmers feared the interlopers were mercenaries hired by Gadaffi. They let the men enter the farmhouse, then surrounded it with machineguns. The members of MI6/SAS team faced a dilemma. If they fought or summoned help from a rescue team based in Malta, it would cause uproar. Their aim was to generate good relations, not bloodshed. Rebel sources say some shots were fired.

British sources say the team was simply roughed up, with one man suffering a minor injury.

What is clear is that soon after landing, the entire team was captive and bound with plastic cuffs.

Ahmed Albira, a farm manager, telephoned rebel headquarters in Benghazi, which told him to keep the men under guard until forces arrived and took them to the city.

"Of course they were roughed up at the beginning," said a rebel source, who claimed the men initially refused to identify themselves. "For all we know, they were mercenaries hired by Gadaffi."

Eventually, the team said it was from the British Foreign Office and had come to help the rebels, asking to speak to Younis and Mustafa Abdul Jalil, a leader of the recently formed "national council" for Libya.

A rebel source said: "We contacted both men, who denied knowing any of them [the captives] or that they had been contacted by anyone warning them that these men were on a mission to see them."

The Britons then told their captors that they had flown from a British ship and the Libyans allowed them one telephone call, suggesting they get the ship to send an official letter confirming who they were.

The result was a faxed note on the headed paper of the Foreign Office. It read: "We take this opportunity to confirm that [name withheld] is at the head of an eight-man United Kingdom diplomatic mission ...

We would be grateful if you could afford this mission all the usual courtesies and assistance." Smith, the honorary consul, was allowed to meet some rebel figures, though it is not clear who.

The rest of the team, said the rebel source, "came to realise their mission had failed and just wanted to leave".

Some rebels wanted to keep the captives as bargaining chips; others wanted to set them free. The latter prevailed, on one condition. "We specified that a British ship come and collect them to confirm they belong to her and to the United Kingdom," a rebel said. The team eventually boarded HMS Cumberland, which set sail for Malta.

The MI6 men and the SAS were airlifted off even before it reached port.

HAGUE was in his Yorkshire constituency when he heard the men had been captured; Cameron was in Cardiff, doing a series of local media interviews, when an aide whispered the news to him. Such was the secrecy that few others knew, including senior figures within the MoD. One senior Downing Street aide said that the first he knew of the debacle was "when I read about it in The Sunday Times". That report forced Hague to make a statement in the Commons on Monday, where he suffered the mockery of Douglas Alexander, Labour's shadow foreign secretary. Was it true, Alexander asked, that "the Benghazi courthouse that is serving as the headquarters of the interim national council is but two miles from where HMS Cumberland was berthed"? It was true, admitted Hague. The implication was that diplomats could simply have walked in to meet rebel leaders. That is the view in Libya. One rebel familiar with the episode said: "Why did they have to come through the back window and not the front door?" The Libyans remain suspicious that there was more to the mission than admitted. Some British observers believe the presence of a second helicopter suggests that part of the purpose was to extract people from the ground. British officials maintain it was purely diplomatic, undertaken clandestinely to protect vital communications equipment. Whatever the truth, the equipment was lost. And with it some of the hard-earned reputation of MI6 and the SAS.

Additional reporting: David Leppard, Michael Smith, Marie Woolf, Simon McGee, Richard Woods

Followed by……

Special Forces scandal as officers are held 'for trying to leak secrets'
By Stephen Wright, David Williams and Ian Drury
Last updated at 8:39 AM on 9th April 2011

http://www.dailymail.co.uk/news/article-1375048/SAS-officers-held-trying-leak-secrets-Libya-Afghanistan.html

Two senior Special Forces officers suspected of leaking details of highly sensitive covert operations have been arrested under the Official Secrets Act, the Daily Mail can reveal.

The unprecedented arrests came as members of the SAS and SBS were deployed in Libya in preparation for airstrikes and to liaise with rebels and identify stranded British oil workers for rescue.

It was unclear last night what the officers are suspected of leaking, but it is understood it involves attempts to pass it to a major broadcaster.

The investigation is focused primarily on information relating to the war in Afghanistan against the Taliban and Al Qaeda. But it is also looking at secret information the men had access to about Libya and other countries where Special Forces have been operating.

Such is the sensitivity of the case that the Cabinet Office, the Ministry of Defence and the Home Office are being regularly briefed on its progress by anti-terrorist officers. Whitehall officials last night described the allegations against the men, who would have had a high security clearance, as 'extremely serious'.

Neither officer has been named. One was based in the heart of the MoD headquarters in central London where the Libyan operation was being planned.

As the crisis in Libya developed, Britain moved in SAS men. They were joined later by members of the SBS and soldiers from the Special Services Support Group, including communications specialists.

The arrests on March 2 took place two days before an MI6 officer and several members of the SAS were held by rebel forces near the centre of anti-Gaddafi operations in the eastern port city of Benghazi.

The humiliating detention, after they had been flown in by a Chinook helicopter under the cover of darkness in an operation sanctioned by Foreign Secretary William Hague, was a huge embarrassment for Britain and the SAS. The arrested officers were held for 24 hours as detectives and specialists from Scotland Yard's SO15 Counter Terrorism Command carried out searches.

They were fingerprinted and forced to pose for a police mugshot and provide a DNA sample before being released on bail. It is believed that police have searched offices and addresses linked to the two suspects.

Because of the sensitivity of the probe, the searches were carried out very discreetly.
Phone logs, text message records and emails are being examined. A report is being prepared for the Crown Prosecution Service, which will decide whether the men will face criminal charges.

A Scotland Yard spokesman said: 'On the evening of Wednesday March 2, officers arrested two men aged 33 and 35 on suspicion of breaching the Official Secrets Act 1989.

'Both men were taken to a central London police station.

'On Thursday March 3, both of them were bailed to return to a police station. They were bailed to return in May. Four searches were carried out in connection with the arrests.'

The force added: 'The investigation is being conducted by Counter Terrorism Command. It is not terror related.

We are not prepared to discuss any details of who the suspects are.'

Members of the Special Forces are operating deep inside Libya, calling-in air strikes and gathering intelligence on Nato targets and senior figures within the Gaddafi administration.

They are also continuing to play a key role in covert operations in Afghanistan, most notably against Taliban field commanders.

In recent years, there has been growing concern in the military and Government over the amount of information about Special Forces operations being leaked to the media.

Some former SAS men have made a fortune out of stories about operations. Andy McNab's first book Bravo Two Zero, the story of an eight-man patrol compromised behind enemy lines in Iraq during the first Gulf war in 1991, made him a millionaire and broke for others the previously guarded code of secrecy surrounding the elite Regiment.

A spokesman for the MoD last night confirmed that two members of the Armed Forces had been arrested.

http://www.dailymail.co.uk/news/article-1375048/SAS-officers-held-trying-leak-secrets-Libya-Afghanistan.html

One has to wonder who the recipients of this information were -------------but surely not too har to work outd.

Remove your secret agents or 'marriage' is over, spies tell CIA Zahid Hussain
The Times and The Sunday Times (Times Newspapers Limited.)

Pakistan's intelligence service has told the CIA to dismantle a "shadow network" of operatives, as both agencies struggle to contain the fallout from the most serious breakdown of trust since 9/11.
The Inter-Services Intelligence agency (ISI) is furious about a CIA operation in which more than 50 agents were in Pakistan without its knowledge. "They have to dismantle those networks if they really want our cooperation," an ISI official told The Times. "We've said to them, 'Do it with us, not behind our backs'." A candid press release, written by the ISI but not sent, accused its US partners of "arrogance" and a lack of respect to its hosts, and bluntly laid out the extent of US dependence on ISI help.
The crisis broke after the arrest of Raymond Davis over the shooting of two Pakistani youths in a Lahore street last month, and subsequent claims that Mr Davis was working for the CIA. Contacts at the highest level have helped both sides to pull back from the brink of a total breakdown over the past few days. Leon Panetta, the CIA chief, phoned his counterpart, General Shuja Pasha, in an attempt to defuse the row, The Times can disclose. The top military leaderships of both countries met on Wednesday at one of only three such summits to have taken place to plot the course of the Afghan conflict. It was planned in advance of the row but resulted in frank exchanges on the secret CIA programme.
The meeting in Oman, attended by Admiral Michael Mullen and General David Petraeus on the US side and General Ashfaq Kayani for Pakistan reflects the determination not to allow the tensions to disrupt operations.
However, there is anger over what is seen as US duplicity. Mr Panetta has been told that the CIA must, at the very least, name other agents.
Stills taken from Mr Davis's digital camera include images of military installations on the Indian-Pakistan border and religious seminaries.
The CIA's Pakistani partners say that they feel betrayed. "We had been working very closely, so closely that our lives literally depended on one another," one senior official said.
ISI officials believe that the CIA took advantage of a relaxation of visa rules in July 2010 to insert scores of intelligence "contractors". They note that 400 visa applications were processed by the Pakistani Embassy in Washington over a single weekend. About 1,800 visas have been issued to US officials under the new rules.
Tensions between the ISI and CIA have been mounting for months. A summons issued against General Pasha to appear in a New York court in connection with the Mumbai attacks was followed by the disclosure of the identity of the CIA station chief, forcing him to leave Pakistan. The two spy agencies have seen many ups and downs.
Partners in the Cold War operation against the Soviets in Afghanistan, relations reached rock bottom in the 1990s when Pakistan sponsored the Taleban regime. However, they rebuilt their partnership after 9/11. One ISI official conceded that it was a "dysfunctional marriage" but said that there would be no divorce.
Raymond Davis shot dead two men in the street

Russia spy suspect working for MP 'met agent at Westminster'
David Brown
The Times and The Sunday Times (Times Newspapers Limited.)
Added on Friday, March 18, 2011, 08:16 AM

A former parliamentary researcher accused of spying for Moscow is alleged to have met a Russian agent in a Westminster block where MPs have their offices, it emerged yesterday.
Ekaterina Zatuliveter, 25, is accused of inviting the agent to Portcullis House opposite the Houses of Parliament in December 2008. She is fighting deportation amid allegations that she used her position as an assistant to the Liberal Democrat MP Mike Hancock to pass information to Russian Intelligence.
The Special Immigration Appeals Commission was told yesterday that MI5 believes Ms Zatuliveter was "ripe for recruitment" as a Russian spy when she was selected to be introduced to Mr Hancock on a visit to Moscow in 2006. Tim Owen, QC, representing Ms Zatuliveter, described the evidence against her as "truly pathetic".
He said: "It is a case that proceeds on the basis of a truly unpleasant Victorian assumption about the way men and women of a certain age should behave." Ms Zatuliveter began working for Mr Hancock, 64, in November 2006, soon after she arrived in Britain to study for a master's degree at the University of Bradford. She was given a pass to the Commons and was paid £250 a month from his expenses before becoming his parliamentary assistant.
Mr Owen said there is "no evidence whatsoever" to support the case of Theresa May, the Home Secretary, that Ms Zatuliveter is a serious risk to national security. Ms Zatuliviter met the alleged agent "U" on a Tube train "spontaneously" after they attended the same event, Mr Owen said. "U" invited her to a meeting but she later e-mailed "U" to cancel. Ms Zatuliveter had been banned from visiting Parliament or contacting Mr Hancock, and required to notify the Home Secretary 48 hours in advance if she wanted to meet anyone other than her immediate family and legal team.
The Home Secretary has banned her from sending a letter to Mr Hancock, the MP for Portsmouth South, but Mr Justice Mitting gave her approval to send one letter to an unidentified man, believed to be the MP, to be approved by the Home Secretary.
The judge said that "she is entitled in her own words to say he must not get in contact". Much of the hearing was held behind closed doors with Ms Zatuliveter and her lawyers excluded while she was represented by a court-appointed advocate. She was stopped at Gatwick last August and arrested in early December. She will not be able to challenge her deportation until a four-day hearing in October. Her solicitor, Tessa Gregory, said that she "vehemently denies" the spying claims and that she was in a "truly Kafkaesque position" of not knowing all the evidence against her.

Followed by……..

'Russian spy' granted legal aid to battle deportation
Martin Bentham, Home Affairs Editor Martin Bentham, Home Affairs Editor

http://www.thisislondon.co.uk/standard/article-23938678-russian-spy-granted-legal-aid-to-battle-deportation.do

Alleged Russian spy Katia Zatuliveter has won legal aid to help fight her case against deportation, the Evening Standard has learned.

Taxpayers' money will be used for her appeal against the Home Secretary's decision to send her home - despite huge cuts in funding for cases involving thousands of Britain's poorest people.

Ms Zatuliveter, 25, a former aide to MP Mike Hancock, has hired one of the country's top QCs. The move is likely to cost the public tens of thousands of pounds, if not more. But ministers are seeking to implement a contentious £350 million cut in the £2 billion legal aid budget.

Tory MP Patrick Mercer, a former shadow security minister, said: "There is even-handedness, but this is going too far. Why should a foreign national alleged to have been spying against this country receive British taxpayers' money to help her fight her case? Times are hard and we can't afford this." Ms Zatuliveter was arrested in December after MI5 told Home Secretary Theresa May it believed she had been passing information to Russian intelligence. She denies involvement in spying.

She is said to have had a meeting at Westminster's Portcullis House with a man MI5 believed to be a Russian agent. As Mr Hancock's parliamentary aide, Ms Zatuliveter had access to potentially sensitive information given to the Commons defence committee.

She was held at an immigration detention centre but granted bail. She will try to overturn the deportation order at a hearing at the Special Immigration Appeals Commission, due to be held in October.

At a hearing earlier this year, her barrister Tim Owen QC claimed there was "no evidence whatsoever" that she was a national security threat. Mr Owen has worked on the cases of Chelsea gun siege victim Mark Saunders, and G20 protest casualty Ian Tomlinson.

In a statement, Ms Zatuliveter has accused the Government of "abusing people's human rights" and "discriminating" against her on the basis of her "nationality, gender and age".

Ms Zatuliveter was on a highly skilled migrant visa and came to Britain to study at Bradford University. She began working for Mr Hancock, Liberal Democrat MP for Portsmouth South, in November 2006.

She was given a House of Commons pass and initially paid expenses only, but later became a full-time researcher helping the MP with his work on the defence committee.

Her alleged espionage follows warnings from MI5 director general Jonathan Evans that Russian spying in the UK has returned to Cold War levels. It also follows the deportation of a Russian spy ring, including ex-British resident Anna Chapman, from the US. Ms Chapman, who had joint Russian/UK citizenship, was stripped of her British passport and barred from this country.

A spokesman for the Legal Services Commission confirmed Ms Zatuliveter had been granted funding. He said legal aid was available for deportation ap-peals depending on a person's income and whether they had a reasonable prospect of winning.

How much will be paid will not be disclosed until after the case. QCs working on legal aid cases receive a basic fee of up to £250 an hour. Further payments will be made to Ms Zatuliveter's solicitors, and the bill for Home Office lawyers and court expenses will boost the total cost even more.

A Legal Services Commission spokesman added: "Special Immigration Appeals Commission cases involve the removal or exclusion of an individual from the United Kingdom on national security or other public interest.

"These are not cases which the litigant could resolve themselves, since they may not be able to see all the evidence against them, nor use alternative forms of advice or assistance or access alternative funding. Legal aid is therefore available if the applicant's case passes strict financial means and legal merits tests."

The Ministry of Justice is planning to remove legal aid for advice on debts, welfare benefits, clinical negligence, divorce and many child access cases. Critics, including the Law Society, claim this will hurt many of the country's most vulnerable people.
http://www.thisislondon.co.uk/standard/article-23938678-russian-spy-granted-legal-aid-to-battle-deportation.do

FBI may get your census secrets
Marie Woolf
The Times and The Sunday Times (Times Newspapers Limited.)
Added on Sunday, March 27, 2011, 01:32 PM

IF you have a liaison of a compromising nature planned for tonight you had better be careful. An MP has warned that because it is "census night" and government IT security is so poor, details of anyone who stays overnight at a property may fall into the wrong hands, or even end up on an FBI database. The MP, Roger Godsiff, says that anyone worried about others knowing what they are up to might be best advised to stay alone in front of the television with a pizza and reschedule their date. By law, householders are required to write on their census forms the names of permanent residents, tenants, lodgers and visiting friends who stay overnight on March 27 or face a criminal record and a fine of up to £1,000. Godsiff, Labour MP for Birmingham Hall Green, said: "The government record on IT and data protection is appalling. It would be prudent, if you don't want in the future to have some embarrassing information in the public domain, to spend the evening in front of the television." Godsiff has tabled a Commons motion warning about the involvement of Lockheed Martin, an arms firm, in gathering information for the census. He claims that the company, which has close links with the US defence department, may be liable to an order under the country's Patriot act to disclose the information to the American authorities.

Bloody marvelous, many of us have rattled on about this with no ears listening – wonder if this piece in The Times wil cut anywhere?

Dyson: China has spy bugs in UK universities
Robert Watts ; Jack Grimston
The Times and The Sunday Times (Times Newspapers Limited.)
Added on Sunday, March 27, 2011, 01:33 PM

THE inventor Sir James Dyson has warned that Chinese students are infiltrating British universities to steal technological and scientific secrets and even planting software bugs to relay the information to China.
Dyson, best known for inventing the bagless vacuum cleaner, said he had evidence that the bugs were left by postgraduates to ensure the thefts continued after they had returned home.
He said the extent to which foreign students dominated many science, technology and engineering research posts, often paid for by the British taxpayer, was "madness". "As an exporter and someone developing technology here, it's very disheartening to see these universities being used by foreign countries and foreign companies," said Dyson.
Universities acknowledge the threat from espionage, particularly by Chinese students, and are taking measures to counter it.
Nicola Dandridge, chief executive of Universities UK, said: "We are very aware this is going on and we are taking it very seriously." The concerns have emerged just days after Theresa May, the home secretary, watered down plans to slash the number of foreign students in Britain.
Dyson said: "Britain is very proud about the number of foreign students we educate at our universities, but actually all we are doing is educating our competitors. "Foreign governments and businesses are prepared to pay quite a lot of money for people to study at Cambridge, Imperial College and other Russell [Group] universities because they appreciate the value of these research posts. "
They go back home taking that science and technology knowledge with them and then they start competing with us. This is mad — it is madness. "I've seen frightening examples.
Bugs are even left in computers so that the information continues to be transmitted after the researchers have returned home." A number of such cases have been uncovered at British universities, with leading research institutions the most heavily targeted.
David Willetts, the universities minister, said: "This is not something foreign students should be doing in the UK. I will study very carefully the evidence that James Dyson has got."
Academics who go to China and other "risky" countries are advised to leave their laptops and mobile phones at home or to take disposable ones.
This is to avoid information being stolen from them or of software bugs being planted which send data to China once the academic has returned to Britain. Nearly 57,000 Chinese now study in the UK, a rise of more than 21% since 2009.

Although business, finance and economics are the most popular subjects, there are more than 3,000 Chinese studying electronic engineering and another 1,510 on computer science courses. Manchester, with 1,890 Chinese in the academic year 2009-10, is the most popular university overall, while Southampton has the highest number of postgraduates from China — 945.

Some individual courses are dominated by foreign students. At Warwick, 45 of the 70 computer science postgraduate students and 95 out of 183 of those studying engineering come from outside the European Union. Dyson has broader concerns about the small numbers of British students who are prepared to take up postgraduate research posts because they are paid as little as £20,000 a year. He fears that higher tuition fees will only encourage more science, engineering and technology graduates to take better-paid jobs in industry. Additional reporting: Eleanor Newman

Line X springs to mind here! It's high time the total twats who run Britain PLC realise that the rest of the world don't operate by the rules of cricket; business, immigration and diplomacy is a rotten, stinking business and its no wonder Britain gets shat on from everywhere else. Our international activities still utilise 19th century methods.

Spooks' secret TEMPEST-busting tech reinvented by US student
Young boffin blows gaff on mystery BAE submarine kit
By Lewis Page
Posted in Physics, 10th March 2011 13:01 GMT

http://www.theregister.co.uk/2011/03/10/through_metal_comms_n_power_reinvented/
A mysterious secret technology, apparently in use by the British intelligence services in an undisclosed role, has been reinvented by a graduate student in America.

Full details of the working principles are now available.
BAE Systems' wireless through-hull comms demo at Farnborough 2010.

Works through glass, too.

Tristan Lawry, doctoral candidate in electrical and computer engineering, has developed equipment which can transmit data at high rates through thick, solid steel or other barriers. Significantly, Lawry's kit also transmits power. One obvious application here would be transmission through the steel pressure hull of a submarine: at the moment such hulls must have hundreds of penetrations for power and data cables, each one adding expense, weight and maintenance burden.

Regular Reg readers will recall that just such kit has previously been developed in the UK labs of arms globocorp BAE Systems: company boffins exhibited it at last year's Farnborough airshow, like Lawry suggesting that it would be of use in submarines. Intriguingly, the BAE inventors also revealed to the Reg that "other parties" within the British government – whom they couldn't name – had asked them to keep secret all details of how their equipment works.

This naturally enough led us to suspect that similar gear had in fact previously been developed in the secret labs of the UK government: the intelligence services are known to have large technical arms which occasionally invent things well before they are discovered elsewhere. The best-known example of this is public-key encryption, secretly developed by British communications spook-boffins years before being independently reinvented in US academia.

Just what the British spooks are doing with the through-metal power'n'comms gear is, of course, a secret. Nonetheless it's no secret at all that these days communications and computer systems can be remotely eavesdropped upon simply by picking up their own internal emissions: a properly-equipped van parked outside a building can snoop into electronics inside even if they make no use of wireless connections. This sort of thing is expensive and very difficult – not something that most organisations have to worry about – but serious spooks can and do carry out such operations.

This has led to the adoption of electromagnetic shielding and many other systems – for instance in accordance with the so-called TEMPEST standards – to protect systems which routinely handle highly sensitive data. Even if intruders manage to get in at some point and plant a receiver or bug inside such a room or building, it still won't be able to transmit what it picks up out through the shielding: and also its battery will run down after a while.

So how does it work?

If you had the through-metal technology now reinvented by Lawry, however, your intruder – inside mole or cleaner or pizza delivery, whatever – could stick an unobtrusive device to a suitable bit of structure inside the Faraday cage of shielding where it would be unlikely to be found. A surveillance team outside the cage could stick the other half of the kit to the same piece of metal (perhaps a structural I-beam, for instance, or the hull of a ship) and they would then have an electronic ear inside the opposition's unbreachable Faraday citadel, one which would need no battery changes and could potentially stay in operation for years.

Spooks might use such techniques even where there was no Faraday cage, simply to avoid the need for battery changes and detectable/jammable radio transmissions in ordinary audio or video bugs.

Naturally, if you knew how such equipment worked you might be able to detect or block it – hence the understandable plea from the British spooks to BAE to keep the details under wraps.

Unfortunately for the spooks, Lawry has now blown the gaff: his equipment works using ultrasound. His piezo-electric transducers send data at no less than 12 megabytes a second, plus 50 watts of power, through 2.5 inches of steel – and Lawry is confident that this could easily be improved upon. It seems certain that performance could be traded for range, to deal with the circumstances faced by surveillance operatives rather than submarine designers.

It also seems pretty much certain, now that they know what they're looking for, that counter-surveillance people will begin sticking transducers of their own onto the walls of their secure facilities and rooms. If they pick up ultrasonic vibrations – which will travel a long way if they're capable of carrying 50 watts of power – they'll know that they've been penetrated, and either hunt down the kit or just start transmitting jamming ultrasonics of their own.

Who knows, such countermeasures may already be routine in some circles, or the tech may well be in secret use for some completely different purpose. But the mere fact of the government suppression of BAE's technology tends to indicate that some sort of valuable trickery along these lines has been – or still is – going on.

The spooks will just have to hope that whoever-it-is doesn't watch this vid in which Lawry explains how his kit works ...

http://www.youtube.com/watch?v=dc51vpEgoYA&feature=player_embedded

... or read this statement from the Rensselaer Polytechnic Institute, where he's working on his PhD. The through-barriers kit has put Lawry in the running to win a $30,000 student prize, which may be causing certain boffins in Blighty's secret labs to grind their teeth even more. ®

http://www.theregister.co.uk/2011/03/10/through_metal_comms_n_power_reinvented/

and

http://www.youtube.com/watch?v=dc51vpEgoYA&feature=player_embedded

also worth a look:

http://www.youtube.com/watch?v=71IMEYUwGow&feature=relmfu

GCHQ goes to school for its new generation of spies
JoannaSugden
From The Times, Saturday, January 8th, 2011.

Spies from GCHQ, the Government's listening post, are going into schools to help with lessons and recruit future codebreakers.
A shortage of science and language graduates with the necessary skills to work for the undercover communications service has led it to start working with children as young as 12. Attracting British pupils from ethnic minorities who speak a foreign language of interest to the service and who meet stringent nationality and security requirements is also part of the operation.
GCHQ linguists and scientists run after-school clubs and taster sessions for languages that are rarely taught in Britain. The aim is to provide pupils with a basic understanding of the mission of GCHQ and get them interested in a possible career as a codebreaker or secret service scientist.
Pupils learn how to transmit messages in code and use wire-sniffing devices provided by GCHQ to bust fictional drug-trafficking rings. They can also pick up some Farsi, Dutch, Korean and other rare languages in short sessions with a linguist from GCHQ.
Gordon Rae, head of languages at Chosen Hill School, a comprehensive in Gloucester, said that the visits from GCHQ had increased interest and participation in language classes.
"What's exciting is that they know they are listening to linguists who are basically spying and intercepting secret files in other languages," Mr Rae said.
"They are the third secret service and the pupils are mesmerised by these people who are working on a global scale in counter-terrorism."
The visits allowed the most talented pupils an insight in to the kinds of careers that would be open to them if they continued studying languages that few British people spoke, he I added. One sixth-former who has benefited from GCHQ input is to study Arabic and Mandarin at university.
The secondary school joined with five others this week to hold a conference for 250 children on rare languages, hosted by six volunteers from GCHQ. "All the schools want to promote languages at A level because it's a battle and it's a hard- one to win," Mr Rae said. Language classes in some schools had such low numbers that they would struggle to survive the forthcoming cuts.
Schools taking part in the programmes have reported an increased uptake of languages at GCSE and A level, in contrast with a national drop-off in the popularity of languages at school level. Since the Labour Government scrapped the requirement to study a modern foreign language at GCSE in 2003, there has been a sharp decline in numbers continuing with the subject beyond the age of 14.
Officials at GCHQ believe that as a result they will not have enough candidates with specialist language abilities to select from unless they step in to get young pupils interested in a linguistic career.
Their 30 ambassadors are going out on request to schools across the country to promote the take-up of languages. They also work in local schools to encourage children to see science as a possible career path.
Pupils at Pittville School in Cheltenham also have an after-school science club run in part by GCHQ volunteers. Their aim is to encourage interest in science, technology, engineering and maths and relate the so-called Stem subjects to real life. The students take part in problem-solving and team-building activities and learn to use GCHQ equipment.
Guy Plowright, 13, who takes part in the club, said: "It's exciting to know we have met real-life spies. I would like to work at GCHQ because the things they do look very interesting.
From The Times, Saturday, January 8th, 2011.

Beady Eyes for Britain Gizza job special!

[This full page recruitment special appeared in the Metro Newspaper on p55 Thursday 17th March, 2011].

All joking aside, I think this is an excellent advert and it not only says a lot to recruit the 'Mobile Surveillance Officer' but also suggests the target too. [*and if you're IC1, I wouldn't bother applying*]. Now read on…….

The case studies are interesting; I sent a text to my daughter whilst she was on the train on her way to work, 'Look on P55 Metro, job for Dad.' She sent back [*on a secure line of course*] 'That's long hours.' I returned, 'Just dreams…' In fact, age and driving licence apart, my daughter would have a better chance of being employed here that I would.

The reason, my daughter is mixed race; white British and Indian. As such she could pass as a Mediterranean type, of Indian/Pakistan/Sri Lankan type, Caribbean [India in the Caribbean], Anglo-Indian.

If you want to know why that is a special trait one needs to read around the periphery of the main storyline: 'In their own words' features two persons from general backgrounds; The case study features the story of an IT officer who made the change. Their names? Speaks volumes: Sandeep, Sunita and Priya. Two women, one man and not your usual Anglo-Saxon names. They certainly don't want your white skinned resident here, do they?

Which reminds me of a certain comment on a recruiting caravan for another job: 'Try not to give application forms to our light skinned brethren……'

SPECIAL MATTERS:

Operation Jallaa: 0

MESSAGES:

E: Thanks E all rxd.All well tnx. 73 P

RELEVANT WEBSITES

ENIGMA 2000 Group: http://groups.yahoo.com/group/enigma2000

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

Chart Section Index

Logging Abbreviations explained.

The ENIGMA 2000 Standard logging should take this form without any personalised abbreviations:

E07 10436kHz 1740z   07/06[414 1 563 102 92632 … 09526 0 0 0   0 0 0] 1753z Fair QRM2 QSB2   PLdn SUN

Station:	E07	[Traits of stations in ENIGMA Control List]
Freq:	kHz	[As above 10436kHz]
Time:	z	[Always 24hour clock, 'z' states GMT/UTC]
Date:	day/month [As above 7th June]	

Msg detail: Varies with station
ID taken from 100kHz fig in freqs: 414 [freqs used in this schedule were 13468, 12141 and 10436kHz]
Msg count   1
Dk [decode key]:   563
Gc [group count]:   102
First group of msg: 92632
Text between grps: **…**
Last group: 09526 [where more than one group is stated the use of LG ahead group
                                                                                                                         indicates 'Last Group.']

Ending: 0 0 0   0 0 0
Time msg ends: 1753z
Received signal strength assessment: Fair
Noise   QRM2
Fading to signal   QSB2

Monitor: PLdn

Day heard: SUN

Unknown: unk

Repeat: R   [which can be expanded to mean]:

Repeated :   R5m [repeated 5 mins]; R5s[repeated 5seconds], R5x [Repeated 5 times]

Received signal strength assessment.

Some receivers possess 'S' meters that give a derived indication of signal strength caused by changes within that receiver. Calibration may, or may not be accurate and the scale, may or may not, be the same as that on other receivers. Some receivers have no meter yet produce acceptable results.

Therefore we prefer the quality of the signal to be assessed by the particular monitor.

Guidance for this can be sought from the Q code:

QSA What is the strength of my signals (or those of...)?
The strength of your signals (or those of...) is...
1) scarcely perceptible.
2) weak.
3) fairly good.
4) good.
5) very good.
[QSA1 S0 to S1;   QSA2 S1 to S3;   QSA3 S3 to S6;   QSA4 S6 to S9;   QSA4 S9 and above]

Sooner than put a numerical value we state: Very Weak, Weak, Fair, Strong or Very Strong.

Noise, Static and Fading.

Again guidance from the Q code:

Noise:

QRM Are you being interfered with?
I am being interfered with
1) nil
2) slightly
3) moderately
4) severely
5) extremely.

Note: in the sample the monitor has stated QRM2 which means 'slight noise'; had the interference been from a broadcast station you might have read 'BC QRM2' and so on.

Static [Lightning and other atmospheric disturbance]:

QRN Are you troubled by static?
I am troubled by static
1) nil
2) slightly
3) moderately
4) severely
5) extremely.

Fading [Propagational disturbance]

QSB Are my signals fading?
Your signals are fading
1) nil
2) slightly
3) moderately
4) severely
5) extremely.

Note: in the sample the monitor has stated QSB2 which means 'slight fading' where the received signal obviously fades but the message is still intelligible.

The use of QRM1, QRN1 and QSB1 is not expected; if there is no such aberration to the signal it need not be stated.

Day Abbreviation

Self explanatory: SUN, MON, TUE, WED, THU, FRI, SAT

Mode used in transmission

Generally the mode of transmission is not stated, being available in the ENIGMA Control List. Should the expected mode change then this can be stated as: CW [Carrier Wave] MCW[Modulated Carrier Wave] ICW [Interrupted Carrier Wave] generally associated with Morse transmission; AM [Amplitude Modulation], LSB [Lower Sideband], USB[Upper Sideband] generally associated with Voice transmission.

Languages used

The ident of a station generally states the language in use, E [English], G[German] S [Slavic], V[All other languages].

Non voice stations

M [Morse and TTY]   SK [Digital modes]   X [Other modes]

Ideally we would like to see logs offered in our standard format allowing the editorial staff to process the results quickly rather than having to manually re-format. Anyone submitting logs should refrain from using their own abbreviations or shortening our abbreviations eg. Su Mo Tu etc.

See a correct example below which is now self explanatory:

V02a 5883kHz 0700z   06/06[A63752 57781 31521] Fair QRN2 end uk   PLdn SAT

And the incorrect version:

V2a 5883k 07:00 06/06/2009   A/63752- 57781- 31521 S3   PLdn   SA

Additional Info:

Own station idents should not be used.

When an unidentifiable station is submitted please supply the obvious details:

Freq, Time start and end, Date, Message content, particularly preamble and message content and ending. Language details are helpful, particularly any strange pronunciations.

Other details about stations can be found in the ENIGMA Control List available from Group files or sent when you joined.

European Number Systems

English	zero	one	two	three	four	five	six	seven	eight	nine
Bulgarian	nul	edín	dva	tri	chétiri	pet	shest	sédem	ósem	dévet
French	zero	un	deux	trois	quatre	cinq	six	sept	huit	neuf
German^	null	eins	zwei	drei	vier	fünf	sechs	sieben	acht	neun
Spanish	cero	uno	dos	tres	cuatro	cinco	seis	siete	ocho	nueve
Czech	nula	jeden	dva	tr^i	chtyr^i	pêt	shest	sedm	osm	devêt
Polish	zero	jeden	dwa	trzy	cztery	pie,c'	szes'c'	siedem	osiem	dziewie,c'
Romanian	zero	unu	doi	trei	patru	cinci	s,ase	s,apte	opt	nouâ
Slovak*	nula	jeden	dva	tri	shtyri	pät'	shest'	sedem	osem	devät'
* West	nula	jeden	dva	try	shtyry	pet	shest	sedem	ossem	devat
* East	nula	jeden	dva	tri	shtyri	pejc	shesc	shedzem	osem	dzevec
Serbo-Croat	nula	jèdan	dvâ	trî	chètiri	pêt	shêst	sëdam	ösam	dëve:t
Slovene	nula	ena	dva	tri	shtiri	pet	shest	sedem	osem	devet
Russian	null	odín	dva	tri	chety're	pyat'	shest'	sem'	vósem'	dévyat'

^ Some German numerals have a radio accent. The numbers in question are:

2 ZWEI   pronounced by some TXs, as TSWO .

5 FUNF   some pronounce it as FUNUF poss hrd as a fast TUNIS

9 NEUN pronounced by some as NEUGEN.

This is totally in keeping with some German armed forces stations and corresponds to our WUN, FOWER, FIFE, NINER

Arabic Numerals [E25 and V08]

English	zero	one	two	three	four	five	six	seven	eight	nine
	0	1	2	3	4	5	6	7	8	9
Arabic	sifr	wahid	itnien	talata	arba	khamsa	sitta	saba	tamanya	tissa
	.	١	٢	٣	٤	٥	٦	٧	٨	٩

Numeral systems used on selected Slavic Stations [*Stations apparently discontinued*]

	S11a Cherta	*S10d*	*S11 Presta*	*S17c*
0	nul	Nula*	zero	Nula*
1	adinka	Jeden^	yezinka	Jeden^
2	dvoyka	dva	dvonta	dva
3	troyka	tri '	troika	tri '
4	chetyorka	shytri	chidiri	shytri
5	petyorka	pyet	peyonta	pyet
6	shest	shest	shes	shest
7	syem	sedoom	sedm	sedoom
8	vosyem	Osoom~	osem	Osoom~
9	dyevyet	devyet	prunka	devyet

Notes: *   Nula heard as nul

^ Jeden heard as yedinar
'   Tri heard as 'she'
~ Osoom often heard as bosoom or vosoom.
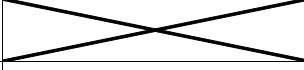
Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	May kHz, ID, ...	Jun kHz, ID, ...
					x	x	0030		E06	01A	8099 759	8142 759
					x	x	0230		E06	01A	6949 759	7608 759
	x		x				0340/0400/0420		M12	01B	8173/ 9173/10173 111	8173/ 9173/10173 111
x							0400		E11	03	5176 416/00	5176 416/00
x		x					0400/0420/0440		M12	01B	7643/ 9143/ 9943 619 search	8156/ 9256/10356 123
	x		x				0410/0430/0450		M12	01B	9992/11013/12184 901	9992/11013/12184 901
			x				0430/0450/0510		E07A	01B	7437/ 8137/ 9137 411	7437/ 8137/ 9137 411
x							0500/0520/0540		M12	01B	7611/ 9111/10511 615 search	7838/ 9238/10738 827
			x	x			0500/0600		E06	01A	14460 460	14710 348
	x						0530/0540		S06S	01A	11435,12650 153	11435,12650 153
	x						0600/0610		S06S	01A	16735/15230 438	16735/15230 438
			x				0600/0610		S06S	01A	8340/ 5810 934	8340/ 5810 934
			x				0600/0610		S06S	01A	7845/ 9125 196	7845/ 9125 196
	x		x				0600/0620/0640		XPA	01B	10327/11627/13427	10327/11627/13427
					x	x	0600/0700		E06	01A	16170 460	16240 348
x			x				0630		E11	03	9371 649/00	9371 649/00
	x		x				0645		E11	03	**ex 6941** **517/00, search**	**ex 6941** **517/00, search**
						x	0700		M01	14	6780 025	6780 025
	x						0700/0710(15)		S06S	01A	5430/ 6780 374	5430/ 6780 374
	x		x				0700/0720/0740		E07	01B	7978/ 9178/ 9978 919, search	8127/ 9327/ 131, search
x		**x**					**0710**		**E11**	**03**	**633/00, search**	**633/00, search**
	x						0730/0740		S06S	01A	7335/11830 745	7335/11830 745
			x				0800		E17Z	01A	16780/12850/ 674	16780/12850/ 674
x							0800		G06	01A	6948 2315, search	6948 2315, search
	x						0800/0810		S06S	01A	14373/12935 352	14373/12935 352
	x	x					0800/0810		S06S	01A	7245/ 9670 418	7245/ 9670 418
x			x				0820		E11	03	**ex 5737** **438/00, search**	**ex 5737** **438/00, search**
	x						0820/0830		S06S	01A	6755/ 5835 471	6755/ 5835 471
			x				0840/0850		S06S	01A	10120/ 9670 328	10120/ 9670 328
x		x					0900		E11	03	**ex 11116** **534/00, search**	**ex 11116** **534/00, search**
			x		x		0900		E11	03	**4909** **248/00**	**4909** **248/00**

Prediction May/June   26.04.2011

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	May kHz, ID, ...	Jun kHz, ID, ...
		x					0900/0910		S06S	01A	12952/13565 167	12952/13565 167
	x		x				0915		S11A	03	484/00, search	484/00, search
		x					0930		E11	03	**ex 5432** **270/00, search**	**ex 5432** **270/00, search**
		x					0930/0940		S06S	01A	10290/ 9655 516	10290/ 9655 516
x			x				**0940**		G11	03	**ex 6252** **275/00, search**	**ex 6252** **275/00, search**
	x						1000/1010		S06S	01A	14580/16020 729	14580/16020 729
	x						1000/1010		S06S	01A	10175/12215 895	10175/12215 895
						x	1000/1010		S06S	01A	893 search	893 search
x			x				1000		S11A	03	16388 475/00	16388 475/00
	x		x				1020		S11A	03	**ex 10210** **426/00**	**ex 10210** **426/00**
	x			x			1020		S11A	03	**5815** **221/00**	**5815** **221/00**
	x	x					1045		E11	03	**8759** **469/00**	**8759** **469/00**
x						**x**	**1045/1050**		**E11**	**03**	**127/00, search**	**127/00, search**
	x	x	x				1115		M03	03	**7837** **272/00 (Tue) &** **650/00 (Wed/Thu**	**7837** **272/00 (Tue) &** **650/00 (Wed/Thu**
	x			**x**			**1135/1140**		**M03**	**03**	**6524** **786/00**	**6524** **786/00**
		x					**1200**		**G06**	**01A**	**search** **439**	**search** **439**
x							1200/1210		S06S	01A	10230/12165 831	10230/12165 831
	x						1200/1210		S06S	01A	7765/ 6815 481	7765/ 6815 481
		x					1200/1210		S06S	01A	10410/ 9690 425, search	10410/ 9690 425, search
	x						1230/1240		S06S	01A	7650/ 278 search	7650/ 278 search
	x						1230/1240		S06S	01A	7545/ 8220 967	7545/ 8220 967
		x					1230/1240		S06S	01A	9255/ 7630 314	9255/ 7630 314
	x					**x**	**1240**		**E11**	**03**	**6906** **349/00**	**6906** **349/00**
		x					**1300**		**G06**	**01A**	**search** **439**	**search** **439**
x							1300/1320/1340		M12	01B	13926/ 919	search
						x	**1320**		**M03**	**03**	**43#/00, search**	**43#/00, search**
					x	x	1325		G11	03	**5815** **299/00**	**5815** **299/00**
	x						1400/1420/1440		XPA	01B	11467/10367/ 9167	12167/11067/10267
	x					x	1445		E11	03	**4909** **267/00, search**	**4909** **267/00, search**
						x	1500		M01	14	6434 025	6434 025
	x						1500/1510		S06S	01A	6666/ 7744 537	6666/ 7744 537

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	May kHz, ID, ...	Jun kHz, ID, ...
		x					1505		M01B	14	5958 159	5958 159
				x			1515		M01B	14	5810 158	5810 158
	x				**x**		**1535**		**M03**	**03**	**798/00, search**	**798/00, search**
						x	1600 (1605)		S06	01A	134, search	134, search
x							1600/1610		S06S	01A	9256/ 7889 176	9256/ 7889 176
x							1700		G06	01A	5742 892, search	5742 892, search
			x			x	1700/1720/1740		E07	01B	13388/12088/10118 301	13468/12141/10436 414
			x				1700/1720/1740		M12	01B	8047/ 6802/ 5788 463	8047/ 6802/ 5788 463
			x			x	1700/1720/1740		M12	01B	12137/10837/9937 189	10742/10142/ 9242 712
	x		x				1702		M45	14	5074, 5474 074	5074, 5474 074
			x				1730		E11	03	**ex 6836 416/00, search**	**ex 6836 416/00, search**
	x		x				1730/1750/1810		XPA	01B	10438/ 9938/ 9138	10438/ 9938/ 9138
	x		x				1742		S21	14	4973, 5373 973	4973, 5373 973
	x			x			1755		G11	03	**5815 270/00**	**5815 270/00**
x							1800		G06	01A	5152 892	5152 892
	x		x				1800		M01	14	5280 025	5280 025
		x					1800 (1805)		S06	01A	5865/ 6770 471	5865/ 6770 471
x							1800/1820/1840		M12	01B	9176/ 7931/ 6904 257	9176/ 7931/ 6904 257
			x				1800/1820/1840		M12	01B	10343/ 9264/ 8116 124	10343/ 9264/ 8116 124
x							1810		M01B	14	5125, 5735 364	5125, 5735 364
	x						1820		M14	01A	6856 163	6856 163
			x				1830	2/4	G06	01A	6887 842	6887 842
			x				1832		M01B	14	5095, 5760 815	5095, 5760 815
x			x				1900 (1905)		S06	01A	6984/ 7982 349	6984/ 7982 349
			x				1900/1910		S06S	01A	10170/ 9110 371	10170/ 9110 371
x			x				1900/1920/1940		E07	01A	14812/13412/11512 845	15824/14624/ 865
		x	x				1900/1920/1940		M12	01B	13582/12082/10382 503	✕
x							1900/1920/1940		M12	01B	9176/ 7931/ 6904 257	9176/ 7931/ 6904 257
				x	x		1900/2000	1/3	M14	01A	9060/ 8180 724, search	9060/ 8180 724, search
				x			1902		M01B	14	5075, 5465 336	5075, 5465 336
x							1915		M01B	14	5150, 5475 858	5150, 5475 858
			x				1920	2/4	M14	01A	5932 417	5932 417

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	May kHz, ID, ...	Jun kHz, ID, ...
				x			1930	2/4	G06	01A	5943 218	5943 218
					x		1930 (1935)		S06	01A	366, search	366, search
			x				1942		M01B	14	5065, 5805 936	5065, 5805 936
				x		**x**	**2000**		**G11**	**03**	262/00, search	262/00, search
	x				x		2000		M01	14	4905 025	4905 025
					x		2000/2020/2040		E07A	01A	8173/ 7473/ 5773 147	8173/ 7473/ 5773 147
					x		2010		M01B	14	4895, 5340 467	4895, 5340 467
					x		2010/2030/2050		E07	01B	11539/10547/ 9388 553	12213/10714/ 9347 273
x							2015/2115	2/4	S06	01A	10270/ 8145 802	12195/10840 947
					x		2030		E06	01A	5948 724	5948 724
						x	2030 (2035)	1/3	G06	01A	10163/11437 364	10163/11437 364
			x				2100/2120/2140		M12	01B	9241/ 7541/ 6841 258	9986/ 9086/ 903, search
			x				2100/2120/2140		M12	01B		13582/12082/10382 503
					x		2130		E06	01A	5731 315	5731 315

Prediction May/June   26.04.2011

M12   Log1 Mar 2011

Brian - S.E. England

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Tue 1	0440	5829	0500	6929	0520	8029	890	418	211
	2200	5938	2220	4938	2240	4038	338	710	143
Wed 2	0500	6784	0520	7584	0540	9184	751	277	103
	1500	10968	1520	10168	1540	9128^	543	736	241
	1800	8047^	1820	6802	1840	5788	463	4433	74
	1830	10623	1850	9323^	1910	8123^	631	450	157
	2200	5763	2220	5163	2240	- - -	714	0 0 0	
Thu 3	0440	5829	0500	6929	0520	8029	890	???	??
	0730	6784	0750	7684	0810	- - -	761	0 0 0	
	1900	10343	1920	9264	1940	8116^	124	9572	89
	2000	9176	2020	7931^	2040	6904^	257	530	52
Fri 4	0700	9338^	0720	10638	0740	12138	338	710	143
Sat 5	None	Found							
Sun 6	1830	10623	1850	9323^	1910	8123	631	450	157
Mon 7	0500	6784	0520	7584	0540	9184	751	120	79
	0530	5792	0550	6992	0610	- - -	796	0 0 0	
	0600	6859**	0620	7959**	0640	9259**	892	636	65
	1300	11524	1320	10424	1340	9324^	543	926	189
	1900	9176^	1920	7931^	1940	6904	257	5714	44
	2000	9176	2020	7931^	2040	6904	257	2652	69

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Tue 8	0440	5829	0500	6929	0520	8029	890	281	181
	2200	5938	2220	4938	2240	4038	338	141	165
Wed 9	0500	6784	0520	7584	0540	9184	751	120	79
	1500	10968	1520	10168	1540	9128^	543	926	189
	1800	8047^	1820	6802	1840	5788	463	9760	89
	1830	10623	1850	9323	1910	8123	631	184	109
	2200	5763	2220	5163	2240	- - -	714	0 0 0	
Thu 10	0440	5829	0500	6929	0520	8029	890	281	181
	0730	6784	0750	7684	0810	- - -	761	0 0 0	
	1800	9176	1820	7931	1840	6904	257	7108	56
	2000	9176	2020	7931^	2040	6904^	257	5985	54
Fri 11	0700	9338^	0720	10638	0740	12138	338	141	165
Sat 12	None	Found							
Sun 13	1830	10623	1850	9323^	1910	8123	631	184	109
Mon 14	0500	6784	0520	7584	0540	- - -	751	0 0 0	
	0530	5792	0550	6992	0610	- - -	796	0 0 0	
	0600	6859**	0620	7959**	0640	- - -	892	0 0 0	
	1300	11524	1320	10424	1340	9324^	543	357	91
	1900	9176	1920	7931	1940	6904	257	4565	65
	2000	9176^	2020	7931	2040	6904	257	2938	82

Highlighted cell indicates new or changed loggings
--- Indicates no 3rd transmission sent as message 0 0 0
^ Weak reception   NH Not Heard   NF Not Found

* Time of transmissions offset due to length of message
** ID 892 Msgs transmitted in MCW

M12   Log2 Mar 2011

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Tue 15	0440	5829	0500	6929	0520	8029	890	892	63
	1930	10343	1950	9264	2010	8116^	124	7298?	52?
	2200	5938	2220	4938	2240	4038	338	446	97
Wed 16	0500	6784	0520	7584	0540	- - -	751	0 0 0	
	1500	10968	1520	10168	1540	9128^	543	357	91
	1800	8047^	1820	6802	1840	5788	463	5671	64
	1830	10623	1850	9323	1910	- - -	631	0 0 0	
	2200	5763	2220	5163	2240	- - -	714	0 0 0	
Thu 17	0440	5829	0500	6929	0520	8029	890	892	63
	0730	6784	0750	7684	0810	- - -	761	0 0 0	
	1800	9176^	1820	7931^	1840	6904^	257	5332	91
	1900	10343	1920	9264	1940	8116	124	8234?	50
	2000	9176	2020	7931^	2040	6904^	257	9849	52
Fri 18	0700	9338^	0720	10638	0740	12138	338	446	97
Sat 19	None	Found							
Sun 20	1830	10623	1850	9323^	1910	8123	631	725	113
Mon 21	0500	6784	0520	7584	0540	9184	751	584	129
	0530	5792	0550	6992	0610	- - -	796	0 0 0	
	0600	6859**	0620	7959**	0640	- - -	892	0 0 0	
	1900	9176^	1920	7931^	1940	6904	257	4125	40
	2000	9176	2020	7931^	2040	6904	257	8.85	52

Highlighted cell indicates new or changed loggings
--- Indicates no 3rd transmission sent as message 0 0 0
^ Weak reception   NH Not Heard   NF Not Found

Brian - S.E. England

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Tue 22	0440	5829	0500	6929	0520	8029	890	160	51
	1930	10343	1950	9264	2010	8116^	124	3630	61
	2200	5938	2220	4938	2240	4038	338	108	87
Wed 23	0500	6784	0520	7584	0540	9184	751	584	129
	1500	10968^	1520	10168	1540	9128	543	698	157
	1800	8047^	1820	6802	1840	5788	463	9048	88
	1830	10623	1850	9323	1910	8123	631	636	43
	2200	5763	2220	5163	2240	- - -	714	0 0 0	
Thu 24	0440	5829	0500	6929	0520	8029	890	160	51
	0730	6784	0750	7684	0810	- - -	761	0 0 0	
	1800	9176	1820	7931	1840	6904	257	4409	54
	1900	10343	1920	9264	1940	8116	124	415	58
	2000	9176^	2020	7931^	2040	6904^	257	9129	64
Fri 25	0700	9338^	0720	10638	0740	12138	338	108	87
Sat 26	None	Found							
	UK	change	to	BST		+ 1Hr			
Sun 27	1830	10623	1850	9323^	1910	8123	631	636	43
Mon 28	0500	6784	0520	7584	0540	9184	751	452	111
	0530	5792	0550	6992	0610	- - -	796	0 0 0	
	0600	6859**	0620	7959**	0640	- - -	892	0 0 0	
	1300	11524	1326*	10424	1352*	9324	543	427	293
	1900	9176	1920	7931	1940	6904	257	1370	73

* Time of transmissions offset due to length of message
** ID 892 Msgs transmitted in MCW

M12   Log1 Apr 2011

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Fri 1	0600	9317^	0620	10617^	0640	12217	417	296	71
Sat 2	None	Found							
Sun 3	1830	11164	1850	9964	1910	9164	191	538	103
Mon 4	0400	6972	0420	8172	0440	- - -	913	0 0 0	
	0500	6878**	0520	8078**	0540	- - -	803	0 0 0	
	1300	14964	1320	13972	1340	12164	991	249	243
	1700	9176^	1720	7931	1740	6904	257	3462	75
	1800	9176	1820	7931	1840	6904	257	7944	63
	1900	9176	1920	7931	1940	6904	257	316	71
Tue 5	0340	5829	0400	6929	0420	8029	890	524	175
	1830	10343	1850	9264	1910	8116	124	1462	62
	2100	7817	2120	6817	2140	5817	417	260	93
Wed 6	0400	6972	0420	8172	0440	- - -	913	0 0 0	
	1500	13918	1520	12218	1540	10748	991	349	243
	1700	8047	1720	6802	1740	5788	463	6305	50
	1830	11164	1850	9964	1910	9164	191	430	153
	2100	6793	2120	5893	2140	- - -	785	0 0 0	
Thu 7	0340	5829	0400	6929	0420	8029	890	524	175
	1700	9176	1720	7931	1740	6904	257	6554	82
	1700	10343	1720	9264	1740	8116	124	2398	73
	1800	10343	1820	9264	1840	8116	124	2458	65
	1900	9176	1920	7931	1940	6904	257	4758	36

Brian - S.E. England

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Fri 8	Not	Monit	-ored						
Sat 9	None	Found							
Sun 10	1830	11164	1850	9964	1910	9164	191	430	153
Mon 11	1300	14964	1320	13972	1340	12164	991	403	247
	1700	9176^	1720	7931	1740	6904	257	9841	77
	1800	9176^	1820	7931	1840	6904	257	2173	51
	1900	9176^	1920	7931	1940	6904	257	5901	57
Tue 12	0340	5829	0400	6929	0420	8029	890	496	59
	1830	10343	1850	9264	1910	8116	124	9823	59
	2100	7817	2120	6817	2140	5817	417	211	69
Wed 13	0400	6972	0420	8172	0440	9372	913	798	91
	1500	13918	1520	12218	1540	10748	991	403	247
	1700	8047^	1720	6802	1740	5788	463	6092	83
	1830	11164	1850	9964	1910	9164	191	985	145
	2100	6793	2120	5893	2140	- - -	785	0 0 0	
Thu 14	0340	5829	0400	6929	0420	8029	890	496	59
	1700	9176^	1720	7931	1740	6904	257	4434	71
	1700	10343	1720	9264	1740	8116	124	6295	70
	1800	10343	1820	9264	1840	8116	124	9277	74
	1900	9176^	1920	7931	1940	6904	257	6794	64

Highlighted cell indicates new or changed loggings
--- Indicates no 3rd transmission sent as message 0 0 0
^ Weak reception   NH Not Heard   NF Not Found

*   **Time of transmissions offset due to length of message**
** **ID 803 Msgs transmitted in MCW**

M12   Log2 Apr 2011

Brian - S.E. England

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Fri 22	0600	9317	0620	10617^	0640	12217	417	963	117
Sat 23	None	Found							
Sun 24	1830	11164	1850	9964	1910	9164	191	184	149
Mon 25	0400	6972	0420	8172	0440	9372	913	314	115
	0500	6878**	0520	8078**	0540	- - -	803	0 0 0	
	1300	14964^	1320	13972	1340	12164	991	157	175
	1700	9176	1720	7931	1740	6904	257	3093	72
	1800	9176	1820	7931	1840	6904	257	7394	64
	1900	9176	1920	7931	1940	6904	257	1297	94
Tue 26	0340	5829	0400	6929	0420	8029	890	921	129
	1830	10343	1850	9264	1910	8116	124	1285	60
	2100	7817	2120	6817	2140	5817	417	458	105
Wed 27	0400	6972	0420	8172	0440	9372	913	314	115
	1500	13918	1520	12218	1540	10748	991	157	175
	1700	8047	1720	6802	1740	5788	463	2899	80
	1830	11164	1850	9964	1910	9164	191	166	113
	2100	6793	2120	5893	2140	- - -	785	0 0 0	
Thu 28	0340	5829	0400	6929	0420	8029	890	921	129
	1700	9176^	1720	7931	1740	6904	257	7789	58
	1700	10343	1728*	9264	1740	8116	124	3632	78
	1800	10343	1820	9264	1840	8116	124	7404	85
	1900	9176^	1920	7931	1940	6904	257	585	63

* **124 Call heard briefly at 1728z – No other transmission heard. Technical problems?**

** **ID 803 Msgs transmitted in MCW**

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Fri 15	0600	9317^	0620	10617^	0640	12217	417	211	69
Sat 16	None	Found							
Sun 17	1830	11164	1850	9964	1910	9164	191	985	145
Mon 18	0400	6972	0420	8172	0440	9372	913	856	133
	0500	6878**	0520	8078**	0540	- - -	803	0 0 0	
	1300	14964^	1320	13972	1340	12164	991	404	161
	1700	9176	1720	7931	1740	6904	257	6488	71
	1800	9176	1820	7931	1840	6904	257	2006	48
	1900	9176	1920	7931	1940	6904	257	8306	89
Tue 19	0340	5829	0400	6929	0420	8029	890	810	73
	1830	10343	1850	9264	1910	8116	124	1667	55
Wed 20	0400	6972	0420	8172	0440	9372	913	856	133
	1500	13918	1520	12218	1540	10748	991	405	161
	1700	8047^	1720	6802	1740	5788	463	2412	65
	1830	11164	1850	9964	1910	9164	191	184	149
	2100	6793	2120	5893	2140	- - -	785	0 0 0	
Thu 21	0340	5829	0400	6929	0420	8029	890	810	73
	1700	9176^	1720	7931	1740	6904	257	???	??
	1700	10343	1720	9264	1740	8116	124	4230	75
	1800	10343	1820	9264	1840	8116	124	6590	67
	1900	9176	1920	7931	1940	6904	257	7120	51

Highlighted cell indicates new or changed loggings
--- Indicates no 3rd transmission sent as message 0 0 0

^ Weak reception   NH Not Heard   NF Not Found

M12   Log2 Mar 2011   (Residue)

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Cont...									
Tue 29 Mar	0440	5829	0500	6929	0520	8029	890	826	169
	1830	10343	1850	9264	1910	8116	124	1899	57
	2200	5938	2220	4938	2240	4038	338	296	71
Wed 30 Mar	1500	10968^	1526*	10168	1553*	9128	543	427	293
	1700	8047^	1720	6802	1740	5788	463	8573	85
	1830	10623	1850	9323	1910	8123	631	538	103
	2200	5763	2220	5163	2240	- - -	714	0 0 0	
Thu 31 Mar	0440	5829	0500	6929	0520	8029	890	826	169
	0730	6784	0750	7684	0810	- - -	761	0 0 0	
	1700	9176	1720	7931	1740	6904	257	8607	52
	1700	10343	1720	9264	1740	8116	124	9148	75
	1900	10343	1920	9264	1940	8116	124	316	71
	1900	9176^	1920	7931^	1940	6904^	257	614	71

M12   Log2 Apr 2011 (Residue)

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Cont...									
Fri 29 Apr	0600	9317^	0620	10617^	0640	12217	417	296	71
Sat 30 Apr	None	Found							

* Time of transmissions offset due to length of message

Highlighted cell indicates new or changed loggings

--- Indicates no 3rd transmission sent as message 0 0 0

^ Weak reception   NH Not Heard   NF Not Found

Family 1A   History and May predictions - 3rd May 2011

Station Day	time (utc)	2011 February	2011 March	2011 April	2011 May	ID Feb	ID Mar	ID Apr	ID May	week
G06 mon	08.00	5463	6774	6774	6948	215	215	215	215	every
G06 mon	17.00	3854	4457	4457		439	439	439	439	1 & 2
G06 mon	18.00	4587	4864	4864	4958	439	439	439	439	1 & 2
S06 mon	19.00/05	3192/3838	5784/5127	5784/5127	7982/6984	349	349	349	349	every
S06 mon	20.15	xxxxx	xxxxx	?		xxx	xxx	121		2 & 4
S06 mon	21.15	6965	7680	8130		684	492	121		2 & 4
S06 mon	22.15	5320	5395	xxxxx	xxxxx	684	492	xxx	xxx	2 & 4
M14 tues	07.00	?	8120	8120		178	362	362	362	2
M14 tues	08.00	5895	7395	7395		178	362	362	362	2
S06 tues	18.00	3645		5890		617		286		1 & 2
M14 tues	18.20	4636	5947	5947	6856	186	346	346	163	2 & 4
G06 wed	12.00		5864	5864		439	439	439	439	1 & 2
G06 wed	13.00				6834 ?	439	439	439	439	1 & 2
S06 wed	18.00/05	3540/3160	5735/5070	5735/5070	6770/5865	471	471	471	471	every
M14 wed	19.20	4761	5463	5463	5932	748	537	537	417	2 & 4
E06 wed	19.20	4036	4523	4523	5267	829	829	829	829	2
S06 wed	19.20	4528				632				2
S06 wed	19.30/05					366	366	366	366	Sat R
S06 wed	20.00/05					134	134	134	134	Sat R
E06 thur	05.00	xxxxx	xxxxx	13530	14460	xxx	xxx	951	460	every
E06 thur	06.00		13890	14910	16170	702	864	951	460	every
E06 thur	07.00	17470	15850	xxxxx	xxxxx	702	864	xxx	xxx	every
G06 thur	18.30	4519	5934	5934	6887	271	579	579	842	2 & 4
S06 thur	19.00/05	3192/3838	5784/5127	5784/5127	7982/6984	349	349	349	349	every
E06 thur	20.30	4836	5186	5186	5948	321	891	891	724	1 & 3
S06 fri	09.30		16318	16311			842	842	842	?
G06 fri	19.30	4792	5442	5442	5943	436	947	947	218	2 & 4
E06 fri	21.30	4760	5197	5197	5731	472	634	634	315	1 & 3
E06 sat	00.30	xxxxx	xxxxx	6918	8099	xxx	xxx	759	759	every
E06 sat	01.30	5846	5879	5133	6949	759	759	759	759	every
E06 sat	02.30	4817	4923	xxxxx	xxxxx	759	759	xxx	xxx	every
M14 sat	09.00	5561	5561	5561?		171	171	171		every
S06 sat	16.00/05	7728/6788	8162/7612	8162/7612	8157/	134	134	134	134	every
S06 sat	19.00	xxxxx	xxxxx	6791		xxx	xxx	703	703	1 & 3
S06 sat	19.30/35	3209/3842	5797/4628	5787/4628		366	366	366	366	every
S06 sat	20.00	xxxxx	xxxxx	5848		xxx	xxx	703	703	1 & 3
S06 sat	20.30	4859	6791	xxxxx	xxxxx	703	703	703	xxx	1 & 3
S06 sat	21.30	4024	5854	xxxxx	xxxxx	703	703	703	xxx	1 & 3
E06 sun	11.20	?	?	7409?		829	829	829	829	2
E06 sun	12.20	5913	6793	6793		829	829	829	829	2

NH = Not heard

R = repeat if there is a message on Saturday

E07 Regular Schedules

Monday

	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
1900				12108	14812	15824	14812	14378	12108	10243		
1920				10708	13412	14624	13412	13458	10708	9243		
1940				9208	11512	13524	11512	10958	9208	7943		
2000	6982	7724	9273								7724	7478
2020	5882	6924	7873								6924	6778
2040	5182	5824	6873								5824	5278

Tuesday

	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
0700				6941	7978	8127	8127	6941	6893	5782		
0720				8041	9178	9327	9327	8041	7493	6982		
0740				9241	9978	10127	10127	9241	8193	7582		
0800	5416	5867	6893								5867	5234
0820	5816	6767	7493								6767	5734
0840	*6916*	7367	8193								7367	6834

Wednesday

	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
1700				12123	13388	13468	13468	13388	12223	11454		
1720				10703	12088	12141	11454	12088	11062	9423		
1740				8123	10118	10436	10126	10504	10116	8123		
1800	6774	7697	9923								8183	6982
1820	5836	6863	9068								6982	5836
1840	4893	5938	7697								5938	4938
1900				12108	14812	15824	14812	14378	12108	10243		
1920				10708	13412	14624	13412	13458	10708	9243		
1940				9208	11512	13524	11512	10958	9208	7943		
2000	6982	7724	9273								7724	7478
2020	5882	6924	7873								6924	6778
2040	5182	5824	6873								5824	5278
2000				8173	8173	8173	8173	8173	8173	5864		
2020				7473	7473	7473	7473	7473	7473	5164		
2040				5773	5773	5773	5773	5773	5773	4564		
2100	5864	5864	5864								5864	5864
2120	5164	5164	5164								5164	5164
2140	4564	4564	4564								4564	4564

Thursday

	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
0430				7437	7437	7437	7437	7437	7437	5146		
0450				8137	8137	8137	8137	8137	8137	5846		
0510				9137	9137	9137	9137	9137	9137	6846		
0530	5146	5146	5146								5146	5146
0550	5846	5846	5846								5846	5846
0610	6846	6846	6846								6846	6846
0700				6941	7978	8127	8127	6941	6893	5782		
0720				8041	9178	9327	9327	8041	7493	6982		
0740				9241	9978	10127	10127	9241	8193	7582		
0800	5416	5867	6893								5867	5234
0820	5816	6767	7493								6767	5734
0840	6916	7367	8193								7367	6834
2010				9387	11539	12213	11539	10753	9387	7516		
2030				7526	10547	10714	10547	9147	7526	5836		
2050				5884	9388	9347	9388	7637	5884	4497		
2110	6777	6777	7516								6777	6777
2130	5449	5449	5836								5449	5449
2150	4483	4483	4497								4483	4483

Sunday

	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
1700				12123	13388	13468	13468	13388	12223	11454		
1720				10703	12088	12141	11454	12088	11062	9423		
1740				8123	10118	10436	10126	10118	10116	8123		
1800	6774	7697	9923								8183	6982
1820	5836	6863	9068								6982	5836
1840	4893	5938	7697								5938	4938

The hundredths digit in each frequency trio gives the ID
i.e. 6**7**74 5**8**36 4**8**93 = 788

Revised 3rd November 2010

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Mar kHz, ID, ...	Apr kHz, ID, ...	May kHz, ID, ...	Jun kHz, ID, ...	General Remarks
x							0400		E11	03			5176 416/00	5176 416/00	since 02/10, last log 08/10 summer sked (cf 0445/0450Z)
x							0445 (0450)		E11	03	6304 416/00	6304 416/00			**since 02/10, last log 03/11** **summer sked still at 0400Z?**
x		x					0630		E11	03			9371 649/00	9371 649/00	since 02/10, last log 08/10 summer sked **(cf 0830Z)**
	x	x					0645		E11	03	10800 517/00	10800 517/00	**ex 6941** 517/00, **search**	**ex 6941** 517/00, **search**	**since 07/09, last log 04/11** **changed 0605Z in 12/10**
	x		**x**				**0710**		**E11**	03	10221 633/00	10221 633/00	633/00, **search**	633/00, **search**	**since 02/11, last log 04/11**
x		x					0820		E11	03	6814 438/00	6814 438/00	**ex 5737** 438/00, **search**	**ex 5737** 438/00, **search**	**since 10/09, last log 04/11** **changed from 0755Z in 02/11**
x		x					0830		E11	03	10690 649/00	10690 649/00			**since 01/10, last log 04/11** **changed from 0730Z in 01/11** **summer sked still at 0630Z?**
x	x						0900		E11	03	9399 534/00	9399 534/00	**ex 11116** 534/00, **search**	**ex 11116** 534/00, **search**	**since 10/09, last log 04/11** **changed from 0850Z in 09/10**
			x		x		0900		E11	03	4909 248/00	4909 248/00	4909 248/00	4909 248/00	since 02/10, last log 03/11 **changed from 0725Z in 12/10**
	x		x				0915		S11A	03	484/00, search	484/00, search	484/00, search	484/00, search	**since 01/10, last log 03/11** **changed from 0855Z in 12/10**
	x						0930		E11	03	8800 270/00	8800 270/00	**ex 5432** 270/00, **search**	**ex 5432** 270/00, **search**	**since 02/10, last log 04/11** **changed from 0540Z in 11/10**
x			x				**0940**		G11	03	7317 275/00	7317 275/00	**ex 6252** 275/00, **search**	**ex 6252** 275/00, **search**	**since 01/10, last log 04/11** **changed from 0935Z in 12/10**
x			x				1000		S11A	03			16388 475/00	16388 475/00	since 04/10, last log 08/10 summer sked (cf 1015Z)
x			**x**				1015		**S11A**	03	475/00, **search**	475/00, **search**			**since 04/10, last log 02/11** **changed from 1300Z in 01/11**
	x			x			1020		S11A	03	9960 426/00	9960 426/00	**ex 10210** 426/00	**ex 10210** 426/00	**since 02/10, last log 04/11** **changed from 0730Z in 01/11**
		x			x		1020		S11A	03	5815 221/00	5815 221/00	5815 221/00	5815 221/00	**since 01/09, last log 04/11** **changed from 0950Z in 12/10**
	x	x					1045		E11	03	7469 469/00	7469 469/00	8759 469/00	8759 469/00	**since 03/10, last log 04/11** **changed from 0825Z in 11/10**
x						**x**	1045/1050		E11	03	6433 127/00	6433 127/00	127/00, **search**	127/00, **search**	**since 01/10, last log 04/11** **changed frpm 0915Z in 11/10**
	x	x	x				1115		M03	03	9150 272/00 **(Tue) &** 650/00 **(Wed/Thu**	9150 272/00 **(Tue) &** 650/00 **(Wed/Thu**	7837 272/00 **(Tue) &** 650/00 **(Wed/Thu**	7837 272/00 **(Tue) &** 650/00 **(Wed/Thu**	**since 10/09, last log 04/11** **changed from 0910Z in 11/10**
x			**x**				1135/1140		M03	03	6977 786/00	6977 786/00	6524 786/00	6524 786/00	**since 02/10, last log 04/11** **changed from 0955Z in 11/10**
x						**x**	1240		E11	03	5737 349/00	5737 349/00	6906 349/00	6906 349/00	**since 08/09, last log 03/11** **changed from 1025Z in 11/10**
						x	1320		M03	03	9150 43#/00	9150 43#/00	43#/00, **search**	43#/00, **search**	**since 02/11, last log 04/11**
			x	x			1325		G11	03	5815 299/00	5815 299/00	5815 299/00	5815 299/00	**since 03/10, last log 04/11** **changed from 1305Z in 11/10**
	x			x			1445		E11	03	4909 267/00	4909 267/00	4909 267/00, **search**	4909 267/00, **search**	**since 01/10, last log 03/11** **changed from 1405Z in 11/10**
x			**x**				1535		M03	03	798/00, **search**	798/00, **search**	798/00, **search**	798/00, **search**	**since 11/10, last log 02/11**
	x						1730		E11	03	9371 416/00	9371 416/00	**ex 6836** 416/00, **search**	**ex 6836** 416/00, **search**	**since 03/10, last log 03/11** **changed from 1830Z in 11/10**
x				x			1755		G11	03	5815 270/00	5815 270/00	5815 270/00	5815 270/00	**since 02/10, last log 04/11** **changed from 1205Z in 11/10**
			x			**x**	2000		**G11**	03	6433 262/00	6433 262/00	262/00, search	262/00, search	**since 01/11, last log 04/11** **ex E11 1910Z 11/09-10/10**

Family 3

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Mar kHz, ID, ...	Apr kHz, ID, ...	May kHz, ID, ...	Jun kHz, ID, ...	General Remarks
x							0800		G06	01A	6774 215, search	6774 215, search	6948 2315, search	6948 2315, search	since 07/10, **last log 04/11**
		x					**1200**		**G06**	**01A**	**5864** **439**	**5864** **439**	**search** **439**	**search** **439**	**since 01/11, last log 03/11 yearly changing id**
		x					**1300**		**G06**	**01A**	439, search	439, search	**search** **439**	**search** **439**	**since 04/09, last log 01/11 yearly changing id**
x							1700		G06	01A	**4457** 439	**4457** 439	5742 892, search	5742 892, search	since 04/10, **last log 04/11** yearly changing id
x							1800		G06	01A	439, search	439, search	5152 892	5152 892	since 05/09, last log 02/11 yearly changing id
			x				1830	2/4	G06	01A	5935 579	5935 579	6887 842	6887 842	since 05/01, **last log 04/11**
				x			1930	2/4	G06	01A	5442 947	5442 947	5943 218	5943 218	since 04/01, **last log 04/11** rpt of Thu 1830Z
					x		2030 (2035)	1/3	G06	01A	8023 364	8023 364	10163/11437 364	10163/11437 364	since 11/09, last log 12/10 yearly changing id

G06   26.04.2011

S06s schedule - amended 7th May 2011

Day	time (utc)	jan feb nov dec	mar apr sep oct	may jun jul aug	ID	
mon	12.00	8420	9145	10230	831	1 hour later
mon	12.10	10635	11460	12165	831	Nov to March
mon	16.00	7436	8040	9256	176	
mon	16.10	6668	6830	7889	176	
tue	06.00		14080	16735	438	
tue	06.10		12355	15230	438	
tue	07.00	5250	5760	5430	374	
tue	07.15	6320	6930	6780	374	
tue	08.00	5810	7320	7245	418	
tue	08.10	7440	9840	9670	418	
tue	08.00	10265	11635	14373	352	
tue	08.10	9135	10420	12935	352	
tue	12.30	5810	4 mhz?	7650	278	
tue	12.40	6770	5805		278	
tue	15.00	5070	6464	6666	537	
tue	15.10	6337	7242	7744	537	
wed	05.30	9435	10835	11435	153	
wed	05.40	11075	12170	12650	153	
wed	07.30	7335	7335	7335	745	1 hour later
wed	07.40	11830	11830	11830	745	Nov to April
wed	08.20	6880	7605	6755	471	
wed	08.30	7840	9255	5835	471	
wed	08.40	9260	9480	10120	328	
wed	08.50	11415	11040	9670	328	
wed	10.00	12365	13365	14580	729	
wed	10.10	14280	14505	16020	729	
wed	12.00	7030	7120	7765	481	
wed	12.10	6305	6415	6815	481	
wed	12.30	4580	7620	7545	967	
wed	12.40	6420	8105	8220	967	
wed	19.00	8530	9220	10170	371	
wed	19.10	7520	8270	9110	371	
thu E17z	08.00	11170	14260	16780	674	
thu E17z	08.10	9820	12930	12850	674	
thu	09.00	12952	12952	12952	167	
thu	09.10	13565	13565	13565	167	
thu	12.00	10580/12155	12560	12155	425	
thu	12.10	9950/10920	13065	14535	425	
thu	12.30	7865	8650	9255	314	
thu	12.40	5310	7385	7630	314	
thu	14.00	5320	5320	5320	624	
thu	14.10	4845	4845	4845	624	
fri	06.00	5460	6340	8340	934	
fri	06.10	7070	5470	5810	934	
fri	06.00	7150	7795	7845	196	1 hour later
fri	06.10	8215	8695	9125	196	Oct to March
fri	09.30	11780	12140	10290	516	
fri	09.40	12570	13515	9655	516	
sat	12.00	?	10350	12460	254	Only
sat	12.10	8260	?		254	week 1

Current Cuban Skeds Heard From 0000-0700 UTC
This covers 1900-0200 local EDT in the USA
(March-April 2011)

	0000	0100	0200	0300	0400	0500	0600	0700
SUN								*5883(P)*
						5898(P)	5800(S)	

	0000	0100	0200	0300	0400	0500	0600	0700
MON				*4174()*	*4035()*	*12180(SK)*	*11435(SK)*	*5883(P)*
				6855(P)	*6768(S)*	*13380(SK)*	*11532(SK)*	
						5898(P)	5800(S)	

	0000	0100	0200	0300	0400	0500	0600	0700
TUE					*6768()*	*12120(SK)*		*5883(P)*
					5117()	*13380(SK)*		
						8009(P)	8009(S)	
						5898(P)	5800(S)	

	0000	0100	0200	0300	0400	0500	0600	0700
WED						*12120(SK)*	*11435(SK)*	*5800(SK)*
						13380(SK)	*11532(SK)*	
							9063(SK)0600	
							5898(SK)0630	
						5810(P)	5810(S)	9153(P)

	0000	0100	0200	0300	0400	0500	0600	0700
THUR						*13380(SK)*		*5883(P)*
						12120(SK)		
				10445(P)	11565(S)	5898(P)	5800(S)	

	0000	0100	0200	0300	0400	0500	0600	0700
FRI		*4028(P)*	*5417(S)*			*12120(SK)*	*11435(SK)*	*5883(P)*
		7520(?)	*7520(?)*			*13380(SK)*	*11532(SK)*	
						5898(P)	5800(S)	
								9153(P)

	0000	0100	0200	0300	0400	0500	0600	0700
SAT		*4028(P)*	*5417(S)*	*6855()*			*11435(SK)*	*5883(P)*
		5135(S)					*11532(SK)*	
		6768()				5898(P)	5800(S)	

It appears the two SK01 skeds at 0500z that appear Monday through Friday, may have been discontinued. The was only one intercept and that was at the beginning of March.

New possible skeds found:

Monday	**0300z**	**4174m**	**Gil**
Tuesday	**0400z**	**5117m**	**PresentedIn4D**
Tuesday	**0500/0600z**	**8009m**	**Gil**
Friday	**0100/0200z**	**7520m**	**Gil and DJ**
Saturday	**0100z**	**5135m**	**Rich**
Saturday	**0100z**	**6768m**	**Jon-FL**
Saturday	**0300z**	**6855m**	**Gil**

Thanks

	0800	0900	1000	1100	1200	1300	1400	1500
SUN	5898(S)							
		10432(P)	9112(S)					

	0800	0900	1000	1100	1200	1300	1400	1500
MON	5898(S)							
	8186(SK)	9063(SK)						
						8096(P)	8096(S)	
						12116(P)	12134(S)	
		10432(P)	9112(S)					

	0800	0900	1000	1100	1200	1300	1400	1500
TUE	5898(S)		8186(SK)1000					
	8180(SK)	8180(SK)	7890(SK)1030					
		5947(SK)0900						
		5930(SK)0930						
						12214(P)	13374(S)	

	0800	0900	1000	1100	1200	1300	1400	1500
WED	5800(SK)	9040(P)	9240(S)					
	8186(SK)	9063(SK)						
						10714(P)	10857(S)	
	9063(S)					8096(P)	8096(S)	

	0800	0900	1000	1100	1200	1300	1400	1500
THUR	5898(S)		8186(SK)1000					
	8180(SK)	8180(SK)	7890(SK)1030					
		5947(SK)0900						
		5930(SK)0930				12116(P)	12134(S)	

	0800	0900	1000	1100	1200	1300	1400	1500
FRI	5898(S)							
						8096(P)	8096(S)	
						12214(P)	13374(S)	
	9063(S)	10432(P)	9112(S)	4478()		9505()		

	0800	0900	1000	1100	1200	1300	1400	1500
SAT	5898(S)	9040(P)	9240(S)					
	8186(SK)	9063(SK)						
		5947(SK)0900						
		5930(SK)0930						
				4478()				

It appears the 1300/1400z M8a sked on Monday and Friday may be discontinued. Only one intercept reported.

New skeds found:

Friday	**1100z**	**4174m**	**DJ**
Saturday	**1100z**	**4174m**	**DJ**

Thanks

SUN	1600	1700	1800	1900	2000	2100	2200	2300

MON	1600	1700	1800	1900	2000	2100	2200	2300
	6768(SK)							
				6785(P)	7554(S)		7519(P)	8009(S)
			8097(P)	8097(S)				

TUE	1600	1700	1800	1900	2000	2100	2200	2300
	6768(SK)							
				12180(P)	*13380(S)*			
							7526(P)	8135(S)
				6785(P)	7554(S)			

WED	1600	1700	1800	1900	2000	2100	2200	2300
	6768(SK)							
				6785(P)	7554(S)		7519(P)	8009(S)
			8097(P)	8097(S)		6932(P)	6854(S)	

THUR	1600	1700	1800	1900	2000	2100	2200	2300
	6768(SK)			*12180(P)*	*13380(S)*			
							8009(P)	8135(S)
				6785(P)	7554(S)	6932(P)	6854(S)	

FRI	1600	1700	1800	1900	2000	2100	2200	2300
	6768(SK)							
				6785(P)	7554(S)		7519(P)	8135(S)
			8097(P)	8097(S)				

SAT	1600	1700	1800	1900	2000	2100	2200	2300
			8097(P)	8097(S)				

Notes:
Skeds in MCW mode indicated in shaded cell.
V2a skeds are indicated in italic fonts.
M8a skeds are indicated in normal fonts.
The primary or first sked is indicated with (P).
The secondary, second or repeat sked is indicated with (S).
All skeds normally begin on the hour.
Frequencies listed as ( ), denote primary or secondary sked not determined.
Frequencies listed without ( ), denotes a possible sked.

SK01 notes: At present SK01 seems to be using exclusively RDFT mode.

New skeds noted:
Saturday 1800z   8097m   kd4kym
Saturday 1800z   8097m   kd4kym

--Updated May 5, 2011—

Cuban Desk Contributors:
  Barry_BS3 (Tennessee, USA)
  "dj" westli1 (California, USA)
  Jon-FL (Florida, USA)
  MS (Michigan, USA)
  Westt1us (Florida, USA)
  Kd4kym (South Carolina, USA)
  Rich Ray
  gilbertovernamas

XPA Polytones

March 2011

XPA c [MFSK-20 Russian Intelligence Multitone System] 10bd

1. 0700z: 10327kHz 2. 0720z: 11627kHz 3. 0740z: 13427kHz

| | Mode: USB | [Tue/Fri] |

ID/msg/serial no/gc/dk/end grp

01Tue	NRH
04 Fri	NRH
08Tue	NRH
11Fri	NRH
15Tue	NRH
18Fri	NRH
22Tue	NRH
25Fri	NRH
29Tue	NRH

Schedule c 070z

Not found despite searches.

Thought to be defunct

XPAd [MFSK-20 Russian Intelligence Multitone System] 10bd

Tue: 1.1400z: 9167kHz 2. 1420z: 8167kHz 3. 1440z: 6967kHz

| ID119 | Mode: USB | [Sun/Tue] |

ID/msg/serial no/gc/dk/end grp

01Tue	119 000 08277 00001 00000 10140	[2m26s]
06Sun	Operation returned to 1400z	
08Tue	119 000 08357 00001 00000 10140	[2m26s]
13Sun	119 1 00267 00213 22393 00713	
15Tue	119 1 00267 00213 22393 00713	[4m36s]
20Sun	119 000 09873 00001 00000 10140	[2m26s]
22Tue	119 000 03384 00001 00000 10140	[2m26s]
27Sun	119 000 09873 00001 00000 10140	[2m26s]
29Tue	119 000 03384 00001 00000 10140	[2m26s]

Schedule d 1400z

Appears the split schedule finishes for March. Variable signal strengths.

XPA e [MFSK-20 Russian Intelligence Multitone System] 10bd

1. 1900z: 9362kHz 2. 1920z: 8062kHz 3. 1940z: 7462kHz

| ID304 | Mode: USB | [Tue/Thu] |

ID/msg/serial no/gc/dk/end grp

01Tue	304 1 00364 00165 67277 61300	[4m27s]
03Thu	304 1 00364 00165 67277 61300	[4m27s]
08Tue	304 1 00609 00207 44733 22137	[4m32s]
10Thu	304 1 00609 00207 44733 22137	[4m32s]
15Tue	304 1 00211 00173 57931 77333	[4m11s]
17Thu	304 1 00211 00173 57931 77333	[4m11s]
22Tue	304 1 00756 00301 58688 47270	[5m31s]
24Thu	304 1 00756 00301 58688 47270	[5m31s]
29Tue	304 1 00751 00167 47128 01510	[4m08s]

Schedule e 1900z

Usually strong for first two slots of this schedule and fair for the last.

March 2011

XPA b [MFSK-20 Russian Intelligence Multitone System] 10bd

1.0540z: 8078kHz 2. 0600z: 9278kHz 3. 0620z: 11078kHz

ID820   Mode: USB   **[Tue/Thu]**

NOTE: Day change, was Mon/Wed

ID/msg/serial no/gc/dk/end grp

01Tue   Not Found

03Thu   Not Found

08Tue   820 1 07914 00233 38305 10244   [4m 48s]

10Thu   820 2 00596 00115 04127 77302 00000 00000
              07994 00233 38305 10244   [6m07s]

15Tue   820 1 00761 00059 35570 37112   [3m04s]

17Thu   820 000 07748 00001 00000 10140   [2m 26s]

22Tue   820 1 00560 00155 37469 72777   [4m00s]

24Thu   820 1 00121 00151 77321 75270   [3m58s]

29Tue   820 2 00436 00197 63187 30445 00000 00000
              00121 00151 77321 75270   [6m02s]

31Thu   820 1 00436 00197 63187 30445   [4m27s]

Schedule b 0540z

Fair to strong sigs across the schedule. Note two message format
used twice [reception problems]?

XPA c [MFSK-20 Russian Intelligence Multitone System] 10bd

1.0700z: 10327kHz 2. 0720z: 11627kHz 3. 0740z: 13427kHz

ID364	Mode: USB	[Tue/Fri]
	ID/msg/serial no/gc/dk/end grp	
01Fri	NRH	
05Tue	NRH	
08Fri	NRH	
12Tue	NRH	
15Fri	NRH	
19Tue	NRH	
22Fri	NRH	
26Tue	NRH	
29Fri	NRH	

Schedule c 0700z

Not found despite searches.

Thought to be defunct

XPA [MFSK-20 Russian Intelligence Multitone System] 10bd

1.1400z: 11467kHz 2. 1420z: 10367kHz 3. 1440z: 9167kHz

ID431	Mode: USB	[Sun/Tue]	
	ID/msg/serial no/gc/dk/end grp		
03Sun	431 000 09573 00001 00000 10140	[2m26s]	
05Tue	431 000 09651 00001 00000 10140	[2m26s]	
10Sun	431 1 00148 00141 69246 47470	[3m52s]	
12Tue	431 1 00148 00141 69246 47470	[3m52s]	
17 Sun	431 000 09573 00001 00000 10140	[2m26s]	
19Tue	431 000 09651 00001 00000 10140	[2m26s]	
24Sun	431 000 03384 00001 00000 10140	[2m25s]	
26Tue	431 000 03535 00001 00000 10140	[2m26s]	

Schedule d 1400z

Transmissions on this schedule mainly weak to fair. The split schedule has finished for now.

XPA [MFSK-20 Russian Intelligence Multitone System] 10bd

1. 1900z: 10943kHz 2. 1920z: 10243kHz 3. 1940z: 9243kHz

ID922	Mode: USB	[Tue/Thu]	
	ID/msg/serial no/gc/dk/end grp		
05Tue	922 1 00678 00151 56932 24456	[3m58s]	
07Thu	922 1 00678 00151 56932 24456	[3m58s]	
12Tue	922 1 07592 00249 94782 44360	[4m57s]	
14Thu	922 1 07592 00249 94782 44360	[4m57s]	
19Tue	922 1 00974 00215 45769 66551	[4m37s]	
21Thu	922 1 00974 00215 45769 66551	[4m37s]	
26Tue	922 1 00179 00273 71507 57140	[5m16s]	
28Thu	922 1 00179 00273 71507 57140	[5m16s]	

Schedule e 1900z

Variable signal strengths from strong, once very strong, to weak.

XPA [MFSK-20 Russian Intelligence Multitone System] 10bd

1.0440z: 7919kHz 2. 0500z: 9139kHz 3. 0520z: 10419kHz

ID934   Mode: USB   **[Tue/Thu]**

ID/msg/serial no/gc/dk/end grp

05Tue	934 1 00467 00055 80947 10450	[2m57s]
07Thu	934 1 00467 00055 80947 10450	[2m57s]
12Tue	934 1 00372 00081 70967 32627	[3m16s]
14Thu	934 1 00372 00081 70967 32627	[3m16s]
19Tue	934 1 00148 00059 66315 13447 [2m59s]	
21Thu	934 2 04027 00115 92365 51343 00000 00000	
	00148 00059 66315 13447	[4m14s]
26Tue	934 2 00857 00287 12276 24553 00000 00000	
	04027 00115 92365 5134	[6m36s]
28Thu	934 2 00986 00399 71167 72465 00000 00000	
	00857 00287 12276 24553	[8m38s]

Schedule b 0440z

Signals usually strong for first two sendings and fair for the last.

Perusal above will show the two message format, suggesting difficulty with reception.

The best being the last one, being nearly 9 mins duration and consisting of a total of 692 groups.