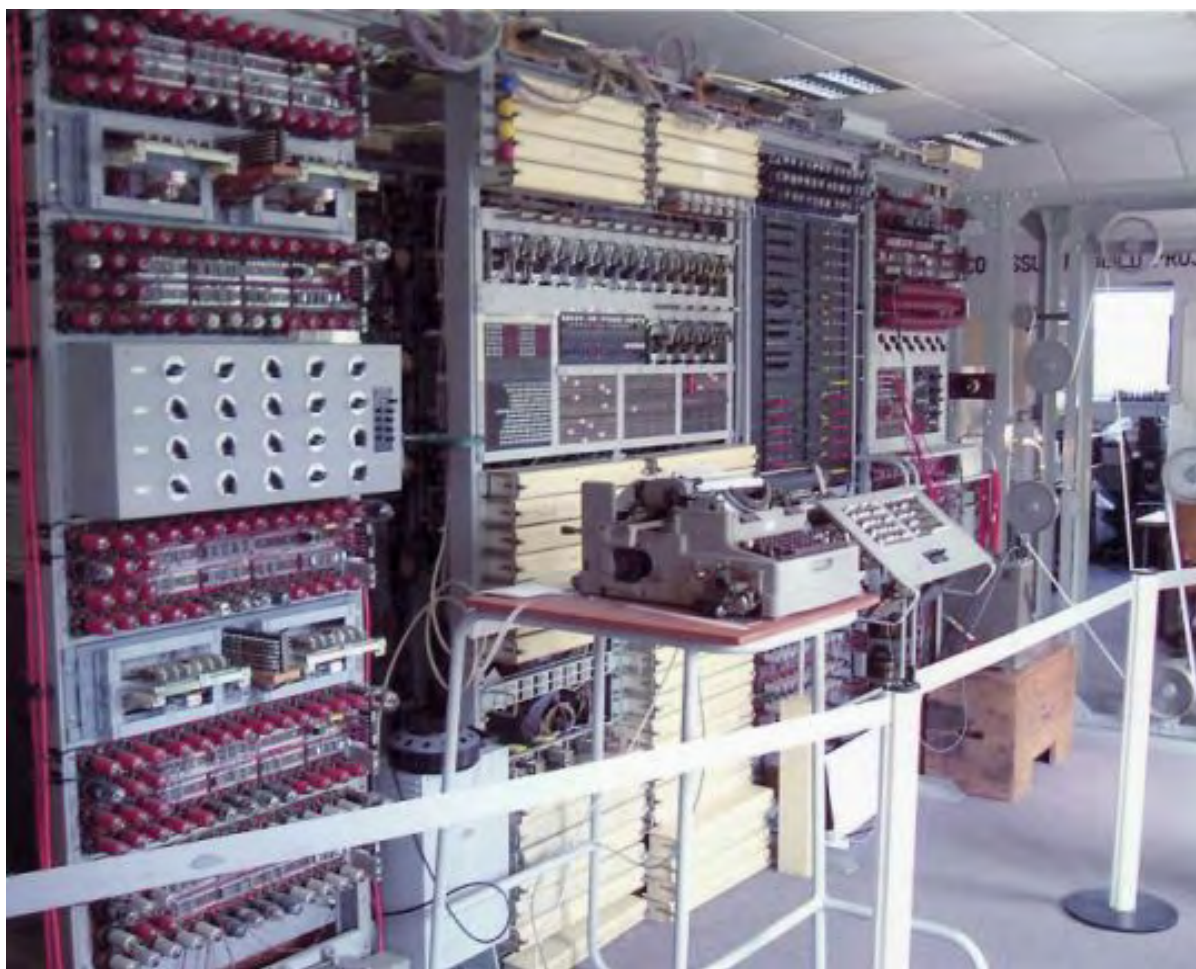# ENIGMA 2000 NEWSLETTER

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Colossus, the world's first electronic computer, as seen at Bletchley Park National Codebreaking Centre.

Colossus was the worlds first electronic computer and designed by Dr Tommy Flowers to break the German Lorenz encryption, or Tunny as it was known at Bletchley. It was so secret that its use by GCHQ [the Soviets had picked up German Lorenz machines and refurbished them to use during the Cold War] continued into the '60s whilst the US boasted of their world first with their ENIAC machine. [See BBC2 Codebreaker, broadcast 2100 26/10/2011]. There was more to codebreaking than just Enigma.
Dr Flowers received no public recognition other than a road name and an educational centre bearing his name [now closed].

The LateTony Sale, computer scientist, museum curator and MI5 Scientific officer led a team to rebuild Colossus years after Churchill 'apparently' ordered their destruction. [Read more inside]. The rebuild, now working, is a standing ovation to the memory of its designer, Dr Tommy Flowers.

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Tony Sale [Front Cover pic]

Taken from 'The Times' Thursday, September 01, 2011

A computer scientist and historian who worked at the Science Museum in London and was a founding member of the Computer Conservation Society, Tony Sale was best known for his remarkable feat in building a replica of the wartime Colossus machine, Britain's first real computer and the device that played a decisive role in code breaking at Bletchley Park.
The early code breaking that played such a part in winning many of the vital campaigns of the Second World War, ranging from the fight against Rommel in the Western Desert through the Battle of the Atlantic fought against the U-boats to the campaign in northwest Europe in 1944-45, had been done by hand at Bletchley.

As the war progressed the mathematician and cryptanalyst Alan Turing became convinced that aspects of this process could be mechanised. Through a number of evolutionary stages, beginning with a 24-valve machine christened Heath Robinson, the first computer-style machine called Colossus, which was largely the brainchild of the telecommunications engineer Tommy Flowers (obituary November 10, 1998), was built at Dollis Hill, Northwest London, in 1943, and transported to Bletchley.
Although Flowers himself described it as a "string and sealing wax affair" the code-cracking Colossus could do in hours what had previously taken weeks. Although Colossus was not what today would be recognised as a computer, its development was a decisive step in the intelligence war, and it arrived just in time to tackle the flood of information interception and collating problems that were to be associated with the Normandy campaign.

A 2,400-valve Colossus Mk II, replacing the original 1,500-valve Colossus, was ready in time for D-Day itself. Eleven such machines were built, but at the end of the war all but two were destroyed on the orders of Churchill, as were all the plans for them. The survivors were removed to GCHQ at Cheltenham where they were thought to have remained in operation until 1958, eventually being dismantled some time between then and 1960.

Extraordinary secrecy surrounded the details of Colossus long after they could have had any interest to modern computer scientists or to any potential enemy. In 1991 Sale was working at the Science Museum in London, restoring some early British computers, when he became convinced that it would be possible to rebuild Colossus. He began the search for information on the machine which amounted only to eight wartime photographs that had been taken of the machine in addition to some fragments of circuit diagrams "which some engineers had kept illegally, as engineers always do", as Sale later remarked. Over the next 14 years Sale led a team that re-created the Colossus computer from scratch.

At the same time he and colleagues also started a campaign to save Bletchley Park from demolition by property developers. As a result of this great effort, today the Colossus replica may be seen in all its antiquated splendour at the National Museum of Computing at Bletchley Park. Anthony Edgar Sale (Tony to friends and colleagues) was born in 1931 and educated at Dulwich College. At the age of 12 he demonstrated his engineering genius by building a robot which he called George out of Meccano.

This prototype was to be substantially improved when in 1949 he joined the RAF as a radar specialist at RAF Debden in Essex, and embarked on a new George, using scrap metal from a crashed RAF Wellington bomber. Powered by a pair of motorcycle batteries inside his chest, this new George could walk, turn his head, move his arms and sit down. George attracted official attention and approval at Debden, and was put on display at open days at the RAF base.

After leaving the RAF Sale worked at Marconi Research Laboratories, and later for the Security Service (MI5) where he served for six years as a scientific officer, rising to become the intelligence agency's principal scientific officer. In the meantime he had become a member of the British Computer Society of which he was subsequently to become its technical director, and in 1988 a Fellow.
For a number of years after leaving the Security Service he established and ran a computer software company before, in 1989, joining the Science Museum, where he became interested in the history of the British computer and as a curator managed the museum's Computer Restoration Project. From this he came to believe that it would be possible to reconstruct the Colossus computer. In 1989 he was one of a group that established the Computer Conservation Society.
He was also involved in the campaign to save Bletchley Park from property development. At Bletchley he founded the National Museum of Computing to preserve the nation's ageing computers and it was there that the re-created wartime Colossus found a home and became the centrepiece on its completion in 2007. Visitors to the museum can also see Sale's robot George among the other creations on display.

Last November Sale had reactivated the robot after decades of inactivity, replacing the original motorcycle batteries with lithium ones. As Sale said at the time: "I dug him out of the garage where he had been standing for 45 years, I had a fair bit of confidence he would work again and luckily I was right. I put some oil on the bearings and added a couple of new lithium batteries in his legs, switched him on and away he went. It was a lovely moment." In 1992 Sale had become secretary of the Bletchley Park Trust of which he was later a trustee. For his Colossus work he was awarded the Comdex IT Personality of the Year in 1997 and in 2000 received the Silver Medal of the Royal Scottish Society of Arts. Sale is survived by his wife Margaret and by three children.

Tony Sale , computer historian and conservationist, was born on January 30, 1931. He died on August 28, 2011, aged 80

[Taken from 'The Times' Thursday, September 01, 2011]

Editorial

In the Comment section of NL66 Mike L stated his intention to cancel July and August for 2012 and have 3 Septembers instead – Guess what, that plan is also scrapped.

September and October have turned out to be his most uncomfortably traumatic since the start of E2k.

We thought the computer problems in August were bad enough but little did we know of what was to hit us through September and October. Three consecutive total systems failures on different machines, including the back-up, which between them wiped out 5 years worth of research notes and archives and all had to be rebuilt file by file to avoid the loss of even more.

Large chunks of the NL got themselves re-written three times, as late as 30th Oct.

Better not to dwell on Pauls gas supply tribulations – that's a story of its own.

Both of us are relieved to see this Newsletter being put to bed.

Enjoy, once again, our (heroic :)) efforts, time to get some sleep.

Paul & Mike L

The quick roundup

M12 Ops having a bit of a rest, no sign of the brain crunching super messages for this issue.

M23 Not only sends its annual message but also a 3 message transmission, first we have noticed in many years of logging (or first ever sent, Ed)which fortunately JPL caught in full. Paul also noted the use of 'mirrored' groups, see entry.

M45, error ? or not – see M01 entry

M89 More new freqs logged plus it comes up with more entertainment in the shape of the HJ4I / YI4K pair bursting onto the scene with a huge flurry of messages – then promptly going away, we wonder for how many years this time.

Comment

We 're beginning to wonder here at Enigma Towers how many more major incidents this year is going to throw at us, it just keeps coming faster than we can keep up with it.

The most recent examples include the one that impinges very closely on our hobby;-

Russian (allegedly) spies arrested in Germany – not only in Germany but one of them in Jochens (Kopf E2kde) home town of Marburg, apparently while listening to her radio.

The media, both local and international, of course applied their highly developed investigative skills and came up with the usual Pre-Packaged off target complete and utter rubbish.

E2k on the other hand applied its dustbin searching skills (basic investigation) which pointed us in the general direction of a Polytone transmission being auto decoded, sooner or later we will find out if we were right.

The bright side for E2k was that Jochen,now known to some in the German media as an intelligent 'Talking Head' once again received interview requests, thus ably imparting some sense into the hysteria.

There are still too many conflicting stories floating about though.

Gaddafi, Muammar– gone at last. A somewhat inglorious end, including mutilation, according to some accounts but we cannot help wondering what road the Libyan people are going to find themselves travelling down over the coming months.

Gaddafi, Saif – being widely pursued across the deserts of Southern Libya by quite an assortment of parties interested in his health and wellbeing !!!! - or is the reported 10 Million US Dollars + Gold Bullion in the baggage got something to do with it ?

One scenario we will be keeping a very close eye on in the coming months is the tense relationship between Iran/Israel/ USA. There have been steady rumblings since the summer that the course of events here are deteriorating rapidly and with this weeks news that the Israeli Mil has test fired a medium range ballistic missile must give cause for concern to the Arabian Gulf Nations.

Morse Stations

Freqs are generally +- 1k

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

M01/2 XIV MCW, hand (463 sked for Sept - Oct)

Will change to M01/1 sked ID 197 for Nov - Feb)

No repeat mssgs sent

5474	18.00z	01 Sept	'463' 320 30 = = 29140
5475	18.00z	08 Sept	'463' 505 30 * * 36981 note the '= =' missing ?
5020	20.00z	"	'463' *** 30 = = 77766, fair, slow
6261	15.00z	10 Sept	'463' 332 30 = = 92747, strong, fast
6510	07.00z	11 Sept	'463' 487 30 = = 47512, strong, errors
5475	18.00z	13 Sept	'463' 486 30 = = 83624, strong,slow, Link11 QRM
5020	20.00z	"	'463' 774 30 = = 56656, good, slow
6261	15.00z	17 Sept	'463' 144 30 = = 81429, strong, exlt op
6508	07.00z	18 Sept	'463' 441 30 = = 06511, fair
5475	18.00z	22 Sept	'463' 523 30 = = 60378, strong, uncorrected errors
5475	18.00z	27 Sept	'463' 287 30 = = 15582, strong, slow, DK only x1

Here's a very interesting one caught by CB and BR

5474	18.00z	29 Sept	'463' 418 30 = = 43074, strong, errors

Prior to, during and after this TX Chris and Brian heard another station sending 'dits' and then '280 32 000 which Chris thought may have been an M01a :-

It was an M45 sending, on its May-Aug 5474 freq sending a Sept '555' 280 32 TX -at the wrong time / wrong freq !!!!! - Operator cock-up ? , Pirate ? Change of habit ?

5017	20.00z	29 Sept	'463' 199 30 = = 07605, v strong, sent one '563'
5475	18.00z	04 Oct	'463' 667 30 = = 97623, strong, slow
5475	18.00z	11 Oct	'463' 673 30 = = 53506, strong, slow-stilted
5020	18.00z	13 Oct	'463' 087 30 * * 20253, strong, fast, missed = =
			This TX sent on wrong freq, this is 20.00z freq.
6261	15.00z	15 Oct	'463' 324 30 = = 82555, strong, QSB
6508	07.00z	16 Oct	'463' .... = 38504, v poor, almost u/r
5474	"	18 Oct	'463' 071 30 = = 60901, fair, noise
5475	18.00z	20 Oct	'463' 134 30 = = 94307, strong, slow, data QRM
6508	07.00z	30 Oct	'463' 209 30 = = *****, v weak, improving

M01 logs
September:

5020kHz2000z	06/09[463 345 30 = 80730 ... 74796 = 345 30 000] 2010z Fair RTTYQRM3 QSB2	Spectre	TUE

```
463 345 30 =
80730 58442 39450 46306 59895 11194 92304 35400 41910 06421
20345 42054 17984 12095 64598 31289 82020 32015 63931 81927
81802 06512 01931 80611 40129 23022 23922 29780 31188 74796
= 345 30 000                    Courtesy Spectre
```

5020kHz 2000z	27/09[463 348 30 = 64017 ...] 2010z Very Weak QRN3 QSB3	Spectre	TUE

5474kHz1800z	06/09[463 022 30 = 84496 ...] 1810z Very Weak QRN4 QSB3	Spectre	TUE
1800z	15/09[463 784 30 = 68669 ... 56743 = 784 30 000] 1810z Weak QRN2 QSB2	Spectre	THU
1800z 22/09[463 523 30 = 60378 ... 71579 = 523 30 000] 1809z Fair QRM3 QSB2		Spectre	THU

```
463 523 30 =
60378 45015 37793 93984 11696 34638 51029 88202 23245 22544
69951 50050 51561 45174 90935 77842 62846 44901 95931 63764
10566 99561 10179 69770 82429 27422 65792 79537 13586 71579
= 523 30 000                    Courtesy Spectre
```

6508kHz 0700z	18/09 [463 441 30 = 06511 ... 62534 = 441 30 000] 0709z Weak QRN2 QSB2	Spectre	SUN

October:

5020kHz2000z	06/10[463 873 30 = 73913 ... 30822 = 873 30 000] 2013z QRN3 QSB3	Spectre	THU

```
463 873 30 =
73913 41050 63310 25017 85068 83202 26528 36191 17301 94905
85404 76358 76436 73076 96330 05028 85029 49274 13145 74821
60491 74395 00886 76395 84155 61321 17097 17172 20681 55439
86914 30822
= 873 30 000
(Note 32 groups were sent instead of 30.)        Courtesy Spectre
```

6261kHz1500z	08/10[463 415 30 = 70738 ... 66989 = 415 30 000] 1509z Fair QRM4 QSB2	Spectre	SAT

```
463 415 30 =
70738 01061 57224 89404 70760 20774 37006 77245 92264 20283
71359 99380 50749 68890 68042 81414 51715 31446 63248 42287
15047 87725 46472 00888 11174 59792 97397 33455 31764 66989
= 415 30 000                    CourtesySpectre
```

M01a (formerly end of month TXs, now random)
RNGB catches this strange TX

8131	18.00z	19 Sept	333 03247 03247 333 03247 03247 R	
	18.03z	changes to 333 03177 984 984 03177 03177	R	
	18.09z	changes to 984 984 984 03107 03107 984 984 R		
		TX ends 128.17z with 111 000		
7811	19.15z	20 Sept	i/p 871 871 871 20892 20892	R
6992	23.17z	22 Sept	i/p 926 926 926 39256 39256	R

M01b
Messages repeated

3510//4605	18.32z	01 Sept	201 106 31 = = 86025
3625//4440	19.02z	02 Sept	153 106 31 = = 86025
3520//4585	20.10z	"	582 106 31 = = 86025
4440	19.04z	09 Sept	153 106 31 = = 86025, weak, v slow, QRM
3644//4454	19.15z	19 Sept	771 618 38 = = 68073
3510//4605	18.32z	29 Sept	201 618 38 = = 68073
3536//4591	18.11z	03 Oct	420 618 38 = = 68073
6509	07.00z	09 Oct	463 37757 97759..... 63324 = 236 30 000, Odd format ?
5811	15.15z	14 Oct	158 450 30 = = 68132
4441//3626	19.02z	"	153 618 38 = = 68037
5941	15.05z	27 Oct	159 450 30 = = 68132
3510	18.32z	"	201 550 * * = = 35307, v weak

M01b logs
September:

4440kHz1902z	02/09[153 106 31 = 86025 ... 99035 12345 = 106 31 000] 1921z Fair QRN3 QSB2	Spectre	FRI

4585kHz2010z	09/09[582 106 31 = 86025 ... 99035 12345 = 106 31 000] 2027z Weak QRN2 QSB2	Spectre	FRI

```
4440/4585kHz 2010z 09/09 Transcript:
582 106 31 =
86025 86423 96574 40460 34002 00467 62773 69028 53738 03382
69828 49124 62754 03121 40131 27335 33387 21836 86724 25957
14752 95200 28549 13387 32196 62002 12569 73149 98185 99035
12345
= 106 31 000                    Courtesy Spectre
```

4590kHz 1810z	12/09[420 106 31 = 86025 ... 99035 12345 = 106 31 000] 1823z Weak QRN3 QSB3	Spectre	MON

5810kHz 1515z	23/09[158 135 30 = 62811 ...] 1531z Very Weak QRN3 QSB2	Spectre	FRI

October:

4585kHz2010z	07/10[582 618 38 = 68073 ... 93010 = 618 38 000] 2030z Fair QRN2 QSB3				Spectre	FRI

582 618 38 =
68073 52249 78901 94062 78779 74440 52257 94339 46757 16580
63362 43548 31043 16474 50285 08289 67347 51668 31861 90972
57287 94797 62853 65171 36322 49937 31270 65964 33097 12741
08880 72377 25071 12516 89660 61133 56322 93010
= 618 38 000   *Courtesy Spectre*

M01c
No reports

M03 III ICW, some CW

9150	11.15z	08 Sept		650/00
9150	13.20z	08/22 Sept	437/00	
6977				
9150	11.15z	20 Sept		272/00
6977	15.35z	"		798/00
9150	11.15z	29 Sept		650/00
6977	11.40z	04/08 Oct	786/00	
6977	11.40z	18 Oct		781 38 = 24822
"	15.35z	"		798/00
9150	11.15z	19 Oct		650/00
9150	13.20z	19 Oct		435 37 = 45283
6977	11.40z	26 Oct		786/00
6977	15.35z	"		790/38 = 45618

M03logs
September:

6977kHz 1140z	24/09[786/00] 1143z Weak QRN2 QSB2		Spectre	SAT
9150kHz1115z	20/09[272/00] 1118z Fair QRN2 QSB2		Spectre	TUE
1320z	22/09[437/00] 1323z Weak QRN2 QSB2		Spectre	THU
1320z	25/09[437/00] 1323z Fair QRN2 QSB2		Spectre	SUN
1115z	28/09[650/00] 1118z Weak QRN2 QSB3		Spectre	WED

October:

6977kHz1140z	01/10[786/00] 1143z Fair QRN2 QSB2		Spectre	SAT
1140z	25/10[786/00] 1143z Fair QRN3 QSB2		Spectre	TUE
9150kHz1115z	25/10[276/31 = 24924 ... 37848 = 000] 1131z Fair QRN2 QSB2		Spectre	TUE

276/31 =
24924 28230 31081 48996 17256 05013 96289 02540 31207 06517
31865 88329 18416 33625 03251 56319 07722 59089 88511 15133
84531 30011 92274 06449 31816 80678 28459 11044 44373 36199
37848
= 000   *Courtesy Spectre*

9150kHz1115z	26/10[450/37 = 57917 ... 74314 = 000] 1133z Weak QRN2 QSB2		Spectre	WED

450/37 =
57917 65561 31182 02151 89813 72355 45668 33197 29251 85503
53542 02713 50903 48888 03894 12122 48193 79441 12081 78527
50222 56521 82683 94656 15137 31125 06557 19667 98547 60147
15755 19571 65583 81957 64252 97672 74314
= 000   *Courtesy Spectre*

M03c (Stutter groups)
No reports

M03d
No reports

M03e
No reports

M08a XVIII ICW / CW, some MCW
These are the frequencies logged during the period, to be read in conjunction with Mark Slatens charts.

Mark reports a possible new sked Monday, 0300z, 6376 – 6380, any confirmations welcome.
Freqs
5800, 5898, 8135,

Above use/are MCW
5883, 5900, 6785, 6855, 6932, 7519, 7526, 7554, 8009, 8097,10445, 10714

M08c
No reports

M08d
No reports

M12 **IB** ICW, some MCW / CW, short 0. Reuses many freqs year on year.
To be read in conjunction with Brians included monthly charts.
New ID's may be only for the month/sked shown, but not necessarily unknown , all are clearly identified on Brians charts. The reason for their reuse, some after long periods of time, is unknown.

10343/9264/8116	18.00/20/40z	01 Sept	124 1
6842/7942/9142	05.00/20/40z	05 Sept	891 1
14372/13472/11472	13.00/20/40z	"	344 1
8047/6802/5788	17.00/20/40z	07 Sept	463 1
6793/5893	21.00/20z	07 Sept	785 000
08 Sept 18.00 – see comment in M12a			
13412/11512/10412	22.00/20/40z	09 Sept	**454** 000 **New** ID, per Pldn & GN
15926/13926/12126	18.30/50/19.10zz	11 Sept	991 1 946 203 08093 **New** Sked, per Danix
14873	10.03z	12 Sept	i/p **222** 1, no DK/GC, very long mssg ends 1100z
			New ID. (a special ?, Ed)
9083/10183/11083	05.00/20/40z	14 Sept	**910** 000 **New** ID, nice one from Eddy in Oz
13524/11524	15.00/20z	"	344 000
15926/13926/12126	18.30/50/19.10z	"	911 1 358 177
9264/8116	18.20/40z	"	124 1
11469/10469/9169	21.10/30/50z	"	**441** 1 842 89 **New** ID
9176/7931/6904	17.00/20/40z	15 Sept	257 1
6793/5893	21.00/20z	21 Sept	785 00
10848/9324/7964	13.00/20/40z	03 Oct	839 1 712 207 69660 ….. 61263
9176/7931/6904	17.00/20/40z	"	257 1
" "	18.00/20/40z	"	"
"	19.00/20/40z	"	"
6835	12.30z	04 Oct	**186** 1 1974 56 **New** ID
7832/9232/10232	05.00/20/40z	05 Oct	**822** 1 789 59 **New** ID/sked
9223/8193/7463	15.00/20/40z	"	**839** 1 712 207 69660 ….. 61263 **New** ID/sked
8047/6802/5788	17.00/20/40z	"	463 1
5814/5214	21.00/20z	"	826 00
9269	21.30z	"	**229** 000 **New** ID, Wed/Sat
10269/9269	21.10/30z	08Oct	**229** 00 " "
10804/9324/7964	13.00/20/40z	10 Oct	839 1
10269/9269/7969	21.10/30/50z	12 Oct	229 1 346 107 full set freqs found, **New** sked
10343/9264/8116	18.00/20/40z	13 Oct	124 1
10973/10273/9273	22.00/20/40z	14 Oct	**922** 1 751 72 full set freqs found. **New** sked
9176	19.00z	17 Oct	257 1 **First log from Zambia**
9233/8193/7463	15.00/20/40z	19 Oct	839 1 437 189 95600
7931/6904	19.20/40z	31 Oct	257 1

M12 logs
September:

5893kHz2120z	28/09[785 785 785 000] 2122z Fair QRN2 QSB2		Spectre	WED
6793kHz2100z	28/09[785 785 785 000] 2102z Fair QRN2 QSB2		Spectre	WED
6904kHz1940z	12/09[257 1 118 98 68590 ... 71264 000 000] 1948z Fair QRN3 QSB2		Spectre	MON
7931kHz1920z	12/09[257 1 118 98 68590 ... 71264 000 000] 1928z Fair QRN3 QSB2		Spectre	MON
9176kHz1900z	12/09[257 1 118 98 68590 ... 71264 000 000] 1908z Fair QRN3 QSB2		Spectre	MON
13472kHz1320z	12/09[344 344 344 000] 1322z Fair QRN2 QSB2		Spectre	MON
14375kHz1300z	12/09[344 344 344 000] 1302z Fair QRN2 QSB2		Spectre	MON

October:

5214kHz2120z	05/10[826 826 826 000] 2122z Fair XJTQRM3		Spectre	WED
5814kHZ2100z	05/10[826 826 826 000] 2102z Fair QRN2 QSB2		Spectre	WED
7964kHz1340z	24/10[839 1 174 155 88204 ... 96968 000 000] 1352z Fair QRN3 QSB2		Spectre	MON
9324kHz1320z	24/10[839 1 174 155 88204 ... 96968 000 000] 1332z Fair QRN3 QSB2		Spectre	MON
10804kHz1300z	24/10[839 1 174 155 88204 ... 96968 000 000] 1312z Fair QRN3 QSB2		Spectre	MON
	"			

M12a (two message variant)
The above entries are a good example of the M12a behaviour for repeat messages. The first message in one TX becomes the second of the next TX. See Brians charts for further detail.

10343/9264/8116	18.00/20/40z	08 Sept	124 2 704 94 98829
			124 2 2487 57 – first TXsuddenly stops, then the 2nd & 3rd Txs send 124 1

704 but with the repeated 98829 first group = M12 sendings.
Possibly an operator error.

9176/7931/6904	17.00/20/40z	20 Oct	257 3879 92
			257 2860 92

M14 **IA** MCW / ICW / MCWCC, short 0

18041	05.00z	09 Sept	952 374 51 = = 56794
5464	19.20z	14 Sept	537 732 15 = = 14782
5945	18.20z	27 Sept	346 596 15
4518	16.00z	04 Oct	913 00000
8193 MCW	18.00z	09 Oct	269 00000
5947	19.19z	11 Oct	346 941 15 = = **12345 6789**9
5241	23.05z	23 Oct	*** 842 15

M14a (two message variant)
No reports

M18 **IC** Time strings, UTC+4

3881	19.55z	04 Oct	0200 0200 0201 0201, a bit fast !

M23 **O** ICW

5345	16.58/17.58z	07/11/14 Sept	'579' R12
5345	16.00z	15 Sept	'246' R15 = 31 31 = 06519

The annual mssg from M23 caught by GD, a remarkable catch. It repeated and was i/p at 17.23z caught by Spectre and Paul, now will it fire up again for 18.00z ?

Well it looks as if it did, as in the meantime JPL had intercepted this lot with more interesting results – **3 different messages being sent.**
We do not know if this 'normal', which we have previously missed, or something very special as our archive info does not make comment.

15 Sep 10 1621 -1627 5345 CW M23 (In traffic) BT (1822z) 31 (x2) BT 06519
(Long zeros) (Thurs) (// N/H) (GlobalTuners Germany) JPL

Here is a copy of what was sent:

(In traffic – long zeros)

..993 30450 71030 BT

? ? (IMI IMI)

BT 31 31 BT (1622z)

06519 05403 00427 81809 97275 92762 31308 24072 42537 66393

48020 91157 86528 43753 82086 35420 03537 08311 62810 73732
23563 41108 54348 48586 12877 054e (1627z stopped - would normally ends
with AR AR)

15 Sep 10 1700 -1725 5345 CW M23 246 (R15) (Message sent - see below) (Long
zeros) (Thurs) (// N/H) (GlobalTuners Germany) JPL)

246 (Cont'd) (1700z)

BT 32 32 BT (1715z)

34197 06803 89886 19954 57703 92103 49229 48913 30255 57462

53249 46783 89992 21255 39315 49205 67998 10982 52661 46683

23821 81210 72145 70484 03181 21585 79144 92725 20351 95825

30860 71379

BT IMI IMI BT

32 32 BT

34197 (Repeat of above message) (Did not get to the end of the message as
the GlobalTuners was changed frequency by another user at 1725z)

15 Sep 10 1800 -1827 5345 CW M23 246 (R15) (Message sent - see below) (Long
zeros) (Thurs) (// N/H) (GlobalTuners Germany/Italy) (JPL)

BT 31 31 BT

57070 13806 09782 15468 90302 424.. (Again, Globaltuner was tuned to
another freq to another user) (Note that this message 31 is different from
the other one above)

(Appears to have sen 3 different messages!)

Then all is repeated again here, quite a 'cornucopia' of loggings

5345	16.00z	19/20/21 Sept	246 R15 31 = 06519 …., 19th timed out on repeat
5345	17.00z	"	246 R15 31 = 34197 ….. 19th timed out on repeat
5345	18.00z	"	246 R15 31 = 57070
5345//4980	08.29z	20 Sept	246 R15 31 31 =

57070 **13806** 09782 15468 90302 42294 80197 84132 64449 06497
01249 12528 60481 70674 59976 92878 15217 56673 37983 31431
52561 22952 25531 11465 18239 35589 39797 89358 48660 78538
60831 32257 BT
IMI IMI

On the three 20 Sept loggings Paul noted another little quirk, that the 2nd & 30th gp figures were reversed,
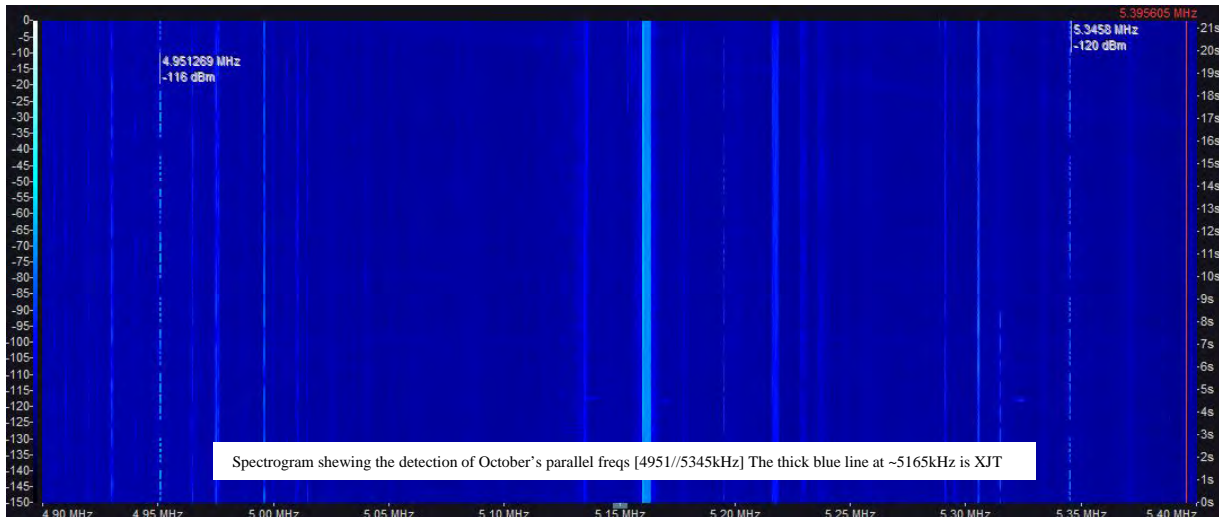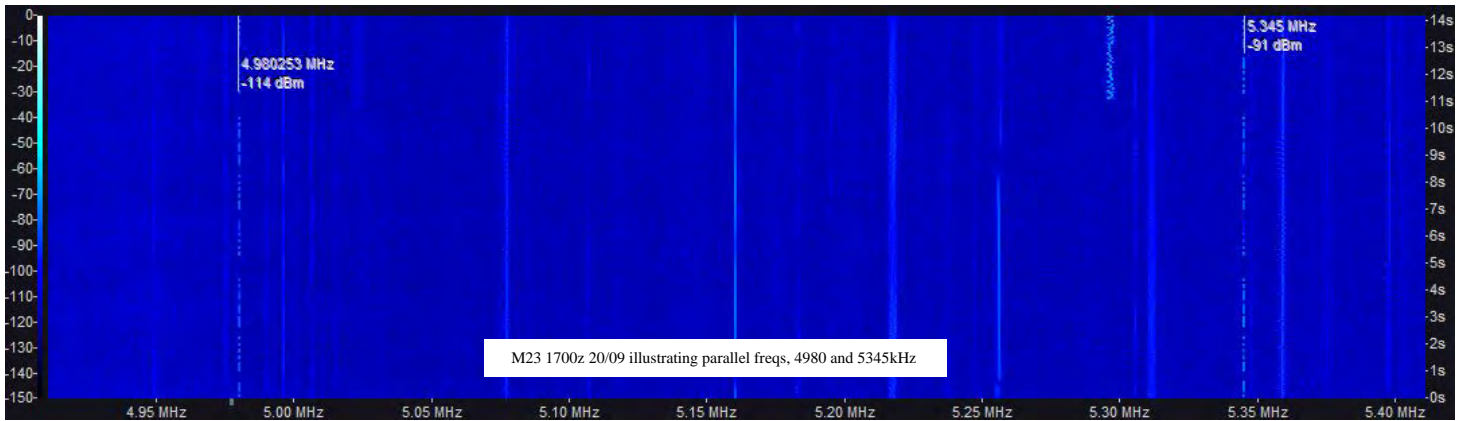as shown in above entry.
The same three messages were logged again on 21/22 Sept at the earlier times of 06.29/07.29/08.31z

5345	16.58z	13 Oct	246 R – no mssg sent
5435//4951	0.30/11.30/14.20/15.20	16 Oct	246 R "
" "	" "	17 Oct	246 R "

Congratulations to all who caught these interesting TXs.

M23 logs
September:

5345kHz	1806z	02/09 [(I.P.) CW 579 Repeated] 1916z Fair QRN2 QSB2	Spectre	FRI
	1709z	06/09 [(I.P.) CW 579 Repeated] 1710z Fair QRN2 QSB2	Spectre	TUE
	1800z	08/09 [CW 579 Repeated] 1810z Fair QRN2 QSB2	Spectre	THU
	1700z	09/09 [CW 579 Repeated] 1710z Fair QRN2	Spectre	FRI
	1800z	09/09 [CW 579 Repeated] 1810z Fair QRN2	Spectre	FRI
	1600z	10/09 [CW 579 Repeated] 1610z Fair QRN2 QSB2	Spectre	SAT
	1700z	10/09 [CW 579 Repeated] 1710z Fair QRN2 QSB2	Spectre	SAT
	1800z	10/09 [CW 579 Repeated] 1810z Fair QRN2 QSB2	Spectre	SAT
	1700z	11/09 [CW 579 Repeated] 1710z Fair QRN2 QSB2	Spectre	SUN
	1800z	11/09 [CW 579 Repeated] 1810z Fair QRN2 QSB2	Spectre	SUN
	1700z	12/09 [CW 579 Repeated] 1710z Fair QRN2 QSB2	Spectre	MON
	1800z	12/09 [CW 579 Repeated] 1810z Fair QRN2 QSB2	Spectre	MON
	1700z	13/09 [CW 579 Repeated] 1710z Fair QRN2 QSB2	Spectre	TUE
	1800z	13/09 [CW 579 Repeated] 1810z Fair QRN2 QSB2	Spectre	TUE

M23 1700z 20/09 illustrating parallel freqs, 4980 and 5345kHz

Spectrogram shewing the detection of October's parallel freqs [4951//5345kHz] The thick blue line at ~5165kHz is XJT

October:

5345kHz 1029z	18/10[246(R)] 1051z Very strong //4951kHz		PLdn	TUE
5345kHz 1129z	18/10[246(R)] 1051z Very strong //4951kHz		PLdn	TUE
5345kHz1658z	30/10[579(R)] 1810z Very strong ended '57' //4951kHz		PLdn	SUN
5345kHz1758z	31/10[579(R)] 1810z Very strong ended '57' 4951kHz		DoK, PLdn	MON

SEE DoK's charts at end of Newsletter Section for his analysis of this station using archival and live records

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

10190	19.05z	22 Oct	512 049 53 = 91346

M24a as M24 with 2nd addressee hand keyed, rarely intercepted.
No report

M39 ICX? ICW / MCW
No reports

M44
No reports

M45/2 XIV (Sept/Oct) MCW, slow, hand, paired gps
Will change to M45/1 for Nov-Feb on 3525//4025 at 18.02z clg '525'

4555//4955	18.02z	06 Sept	555 280 32 = 38383 (as S21 sending 18.42z)
4955//4555	"	27 Sept	555 (R4) 280 32 …..
4555	"	30 Sept	555 R, v weak, almost u/r
4955//4555	"	18 Oct	555
" "	"	20 Oct	555 443 34 = 92211

M50 XIV MCW
No reports

M51

Usual activity, expertly logged by Spectre

September:

4889kHz1958z	01/09 [NR 60 S 01 21:58:33 1983 BT KSNRN ...] Fair QRN3 QSB2	Spectre	THU
2100z	01/09 [NR 70 S 01 23:00:48 1983 BT OIBBN ... RIWNK BT] 2107z Fair QRN2 QSB2	Spectre	THU
2107z	01/09 [NR 71 S 01 23:07:08 1983 BT ELURS ... CRPER BT] 2113z Fair QRN2 QSB2	Spectre	THU
2113z	01/09 [NR 72 S 01 23:13:22 1983 BT RSQES ... ORVWH BT] 2119z Fair QRN2 QSB2	Spectre	THU
2119z	01/09 [NR 73 S 01 23:19:28 1983 BT ZOQTG ... YBXG* BT] 2126z Fair QRN2 QSB2	Spectre	THU
2157z	01/09 [NR 79 S 01 23:57:18 1983 BT EMKGP ... PRQKQ BT] 2203z Fair QRN2 QSB2	Spectre	THU
2203z	01/09 [NR 80 S 02 00:03:30 1983 BT BYRKE ... OSPSP BT] 2209z Fair QRN2 QSB2	Spectre	THU
2209z	01/09 [NR 81 S 02 00:09:45 1983 BT IODTU ... MFIUY BT] 2216z Fair QRN3 QSB2	Spectre	THU
2216z	01/09 [NR 82 S 02 00:16:01 1983 BT XOBFY ... IJBGI BT] 2222z Fair QRN3 QSB2	Spectre	THU
2222z	01/09 [NR 83 S 02 00:22:13 1983 BT MFWYN ... IGSQC BT] 2228z Fair QRN3 QSB2	Spectre	THU
2253z	01/09 [NR 88 S 02 00:53:06 1983 BT BGURN ... WHUFZ BT] 2259z Fair QRN3 QSB2	Spectre	THU
2259z	01/09 [NR 89 S 02 00:59:21 1983 BT KBHOO ... VD*XM BT] 2306z Fair QRN3 QSB2	Spectre	THU
2331z	01/09 [NR 04 S 02 01:31:12 1983 BT FVSAY ... KGWXO BT] 2338z Fair QRN3 QSB3	Spectre	THU
2350z	01/09 [NR 07 S 02 01:50:03 1983 BT DEWPM ... VTXKJ BT] 2356z Fair QRN2 QSB2	Spectre	THU
2356z	01/09 [NR 08 S 02 01:56:20 1983 BT OWZVI ... KNGQD BT] 0002z Fair QRN2 QSB3	Spectre	THU
0002z	02/09 [NR 09 S 02 02:02:17 1983 BT OPQLQ ... AZTZD BT] 0008z Fair QRN2 QSB3	Spectre	FRI
0008z	02/09 [NR 10 S 02 02:08:32 1983 BT SXHIN ... WMZJC BT] 0014z Fair QRN2 QSB3	Spectre	FRI
0014z	02/09 [NR 11 S 02 02:14:50 1983 BT GEBBB ... MDABM BT] 0020z Fair QRN2 QSB3	Spectre	FRI
0021z	02/09 [NR 12 S 02 02:21:20 1983 BT NJAVE ... YMHFD BT] 0027z Fair QRN2 QSB3	Spectre	FRI
0027z	02/09 [NR 13 S 02 02:27:12 1983 BT AQQBO ... QJITQ BT] 0033z Fair QRN2 QSB3	Spectre	FRI
0033z	02/09 [NR 14 S 02 02:33:27 1983 BT DZDFT ... FSSKQ BT] 0039z Fair QRN2 QSB2	Spectre	FRI

4889kHz 0033z 02/09 Transcript:

NR 14 S 02 02:33:27 1983 BT
DZDFT XTRQA RZARJ BRMDP SMJBF TTTKB SXCJB YHSIZ SEQSQ LSEIW
PKREV HJBAU YXXPL JGBUD SPGPS TVMPP WDQXR EYBQK XGQBK CYIBR
TEUIH HMPTG MLFTR SHGKJ VIOQD HAFWU BWSLD KGLTR OWNEX GMIAV
UTFOM HBBGD XJFPE FEPGI OHKER SZKBF LBJBN AJNEP OLLWQ TUJCY
VLISN QRJZD URFQE PDUGM FPAEG IVDEO VXALS BEKCW BKFYY ABBXB
KGXPO TTUNJ YYDLN CPIRF GHULF DGFSN GDKWC QWAVP SDVMM UMJFN
IMFFJ RYJXZ MNAQC EPMMD XERWM RGSOI CMLIV OMNWN PSOYT EQAGP
QVYBB USTNH YGZYL NURJS SNDLZ LJQLC ZIHSC BRWHP CBMNY QSKOG
TCMCG VMUKZ FATLM JKCSQ ZRRYJ UHATC HNZPK YUGOB YJXJL IPOKE
NMRFQ HMRRR YGZAW JDQQR OLNBU MBSEX RNWLF AGUCD AYVHM FSSKQ
BT   *Courtesy Spectre*

4889kHz 0039z	02/09 [NR 15 S 02 02:39:41 1983 BT RVOYG ... UMSJI BT] 0045z Fair QRN2 QSB3	Spectre	FRI
0045z	02/09 [NR 16 S 02 02:45:54 1983 BT TNYTP ... WKVGV BT] 0052z Fair QRN2 QSB3	Spectre	FRI
0052z	02/09 [NR 17 S 02 02:52:05 1983 BT GBQJT ... EVNRY BT] 0058z Fair QRN3 QSB3	Spectre	FRI
0058z	02/09 [NR 18 S 02 02:58:18 1983 BT MMOPU ... LOWHT BT] 0104z Fair QRN2 QSB3	Spectre	FRI
0104z	02/09 [NR 19 S 02 03:04:26 1983 BT ZSRCD ... WIVOB BT] 0110z Fair QRN2 QSB3	Spectre	FRI
0110z	02/09 [NR 20 S 02 03:10:46 1983 BT WYWAQ ... CHDBF BT] 0116z Fair QRN3 QSB3	Spectre	FRI

5115kHz 2023z	01/09 [NR 64 S 01 22:23:20 1983 BT TPQQD ... EGZLX BT] 2028z Fair QRN2 QSB2		Spectre	THU
5426kHz 2203z	16/09 [NR 06 S 15 00:03:51 1983 BT GBRJC ... XGJRB BT] 2210z Fair QRN2 QSB2		Spectre	FRI

M51 5426kHz 2203z 16/09 Transcript:

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NR 06 S 15 00:03:51 1983 BT
GBRJC GSBUD PXQGA IRNZV UULAY EVLGZ MUUCP NQAHN YGDFV DGXTR
LMXAP GWRUK MWCON EPQYU FMMJU FFOUN RBBDY DMNFO KHUNV WINPP
UOYFV YDZSC PEACT TZEJC OCSVC DZBOW PNQJO XSYUV ILJMV WQOCC
FYVAZ YGXNE VMSSA GWLIY PIVGK YLWXE EBQWM RPWCA CCIEH YIIHL
HAMJZ HQUTE YIBCW KHWDC GTZLN HTDTS WLNSQ BJHSB WJIDL KVZJY
HLJHD RISUM POKQL EIXPA YONQT AAECQ KUYZW ZEYCU DPWBF BXCAN
BIEXR PCPIN VIJWC AEFJG OMTEQ KLNBP GZDBC LTLIU VSZUR BYGQG
P*VGS JTWSP NMWNB CWIRY QWWBB KEYVP KOLVM CHNBR LRJXR TAILN
PIJHS UGNAM FEQNE YLOWG HFQWZ TWLCS ISFKA XNGKC XFTOJ QQWBQ
ANBUY DEGOS GGVKQ LESKU AAVGH LMIKM DYMNW TSEGG FBJWS XGJRB
BT
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* = Not Heard.   *Courtesy Spectre*

5426kHz 2210z	16/09 [NR 07 S 15 00:10:05 1983 BT IVGVG ... GRRAP BT] 2216z Fair QRN2 QSB2		Spectre	FRI
2216z	16/09 [NR 08 S 15 00:16:29 1983 BT FQCBD ... OOUAT BT] 2222z Fair QRN2 QSB2			
2222z	16/09 [NR 09 S 15 00:22:31 1983 BT EZQLS ... TTPUE BT] 2228z Fair QRN2 QSB2			
2228z	16/09 [NR 10 S 15 00:28:49 1983 BT JXMRY ... GCLNZ BT] 2235z Fair QRN2 QSB2			
2235z	16/09 [NR 11 S 15 00:35:02 1983 BT SOZIO ... RGBHN BT] 2241z Fair QRN2 QSB2			
2241z	16/09 [NR 12 S 15 00:41:18 1983 BT XENBB ... *AFPV BT] 2247z Fair QRN2 QSB2			
2247z	16/09 [NR 13 S 15 00:47:33 1983 BT GWVHM ... HNFOE BT] 2253z Fair QRN2 QSB2			
2253z	16/09 [NR 14 S 15 00:53:46 1983 BT SFTYG ... NOPNR BT] 2259z Fair QRN2 QSB2			
2259z	16/09 [NR 15 S 15 00:59:59 1983 BT BIMSE ... WZFTI BT] 2306z Fair QRN2 QSB2			
2306z	16/09 [NR 16 S 15 01:06:09 1983 BT HLIWV ... NSATJ BT] 2312z Fair QRN2 QSB2			
2212z	16/09 [NR 17 S 15 01:12:29 1983 BT NIKNA ... KZKGN BT] 2318z Fair QRN2 QSB2			
2318z	16/09 [NR 18 S 15 01:18:48 1983 BT FYMMY ... BKEHK BT] 2325z Fair QRN2 QSB2			
2325z	16/09 [NR 19 S 15 01:25:05 1983 BT BTQHO ... MPXPQ BT] 2331z Fair QRN2 QSB2			
2331z	16/09 [NR 20 S 15 01:31:22 1983 BT JPOPB ... UNUKU BT] 2337z Fair QRN2 QSB2			
2337z	16/09 [NR 21 S 15 01:37:40 1983 BT LVNLL ... VXBCA BT] 2343z Fair QRN2 QSB2			
2343z	16/09 [NR 22 S 15 01:43:56 1983 BT PTPUM ... AISAO BT] 2350z Fair QRN2 QSB2			
2350z	16/09 [NR 23 S 15 01:50:08 1983 BT BZGPB ... KRCCT BT] 2356z Fair QRN2 QSB2			
2356z	16/09 [NR 24 S 15 01:56:21 1983 BT EKTWC ... PPQFV BT] 0002z Fair QRN2 QSB2			
0002z	17/09 [NR 25 S 15 02:02:30 1983 BT JCYKW ... HZBXU BT] 0008z Fair QRN2 QSB2		Spectre	SAT
0008z	17/09 [NR 26 S 15 02:08:48 1983 BT SAENE ... YJKVB BT] 0014z Fair QRN2 QSB2			
0014z	17/09 [NR 27 S 15 02:14:51 1983 BT LLLCG ... WBRCT BT] 0020z Fair QRN2 QSB3			
0020z	17/09 [NR 28 S 15 02:20:58 1983 BT SFLAK ... JLQWN BT] 0026z Fair QRN2 QSB3			
0026z	17/09 [NR 29 S 15 02:26:14 1983 BT UGNJX ... GHUCD BT] 0033z Fair QRN2 QSB3			
0033z	17/09 [NR 30 S 15 02:33:31 1983 BT COYHS ... GFFGA BT] 0039z Fair QRN2 QSB3			
0039z	17/09 [NR 31 S 15 02:39:51 1983 BT ZWAIH ... GBJFG BT] 0046z Fair QRN2 QSB3			
0046z	17/09 [NR 32 S 15 02:46:02 1983 BT DTKTW ... TNBMS BT] 0052z Fair QRN2 QSB3			
0052z	17/09 [NR 33 S 15 02:52:14 1983 BT WOKQZ ... RJJGE BT] 0058z Fair QRN2 QSB3			
0058z	17/09 [NR 34 S 15 02:58:26 1983 BT BOPQJ ... BRCVZ BT] 0103z Fair QRN2 QSB3			
0104z	17/09 [NR 35 S 15 03:04:28 1983 BT HAYEJ ... EWQGJ BT] 0110z Fair QRN2 QSB3			
0110z	17/09 [NR 36 S 15 03:10:38 1983 BT REBBF ... KNDKZ BT] 0116z Fair QRN2 QSB3			
0116z	17/09 [NR 37 S 15 03:16:57 1983 BT RIPUP ... MEOTD BT] 0123z Fair QRN2 QSB3			
0123z	17/09 [NR 38 S 15 03:23:12 1983 BT INDRJ ... YWOLC BT] 0129z Fair QRN2 QSB3			
0129z	17/09 [NR 39 S 15 03:29:29 1983 BT ZRNBC ... EYOQN BT] 0135z Fair QRN2 QSB3			
0135z	17/09 [NR 40 S 15 03:35:49 1983 BT LUXBL ... FSVJH BT] 0142z Fair QRN2 QSB3			
0142z	17/09 [NR 41 S 15 03:42:02 1983 BT PRDPX ... SYRZY BT] 0148z Fair QRN2 QSB3			
0148z	17/09 [NR 42 S 15 03:48:22 1983 BT IAJIM ... WWLND BT] 0154z Fair QRN2 QSB3			
0154z	17/09 [NR 43 S 15 03:54:35 1983 BT JJXGR ... QLQQJ BT] 0200z Fair QRN2 QSB3			
0200z	17/09 [NR 44 S 15 04:00:52 1983 BT ZXWAB ... MLUGT BT] 0206z Fair QRN2 QSB3			
0206z	17/09 [NR 45 S 15 04:04:07 1983 BT VQQSA ... TSWGD BT] 0213z Fair QRN2 QSB3			
0213z	17/09 [NR 46 S 15 04:13:20 1983 BT KPEXE ... CVRRT BT] 0219z Fair QRN2 QSB3 S			

M51 5426kHz 0213z 17/09 Transcript:

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NR 46 S 15 04:13:20 1983 BT
KPEXE TWJNS GUKRO TOFUM PNDKL FSKXV CFCTH WLMZC AGQSZ EVEHC
VCNAW VILNH CLMPZ ZLUMZ QHVYD LKLOA IHUPN ZFYLU IQSLD BWOEJ
JUNMF IYUDQ WOFGH TDWNE GNUVD MQFZF EKDMW DUJJV LZPTU AAOUH
YWSJV QRGBK YHEEP PPKSS VZORG HKEXK UVEAA TMBNM FTSQF ANVHG
KJBVQ ZWTUV YUKES OYLAK RZOFT PKTRT FLVAU JSEGL ZPJRU YOBNX
SFFNF LWBZK OCFMG VYTTP WLQRO EYVLZ HAEJA YWZHL LFTOX QKLRN
POUQO TATVQ TMDGB ZWCAB RUJUQ XLAKC FKZMT QFAJD IBNOK OENNY
SSBMM ZNXRN SOZNO SDYGG NHFWL YVNOP NIRUW QRZQJ ETIBO EZUBT
WTKND ZWFND HHMFH XZTBE CCCEO MQZQC FBQID KSEUQ AATUU QPKRY
WGYBG ZDDDW ZFYRM ICTJJ XJHGJ QUPHN PVKGC BEDEX BZGPH CVRRT
BT
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                                                                 Courtesy Spectre

6818kHz 1123z	17/09 [NR 40 S 15 13:23:23 1983 BT YAADF ... XPCZW BT] 1129z Fair QRN2 QSB3		Spectre	SAT
1949z	17/09 [NR 27 S 15 21:49:32 1983 BT USXJX ... AJFFR BT] 1955z Fair QRN2 QSB3			
1955z	17/09 [NR 28 S 15 21:55:44 1983 BT QWRFH ... BEENR BT] 2001z Fair QRN2 QSB3			
2001z	17/09 [NR 29 S 15 22:01:50 1983 BT OGLFG ... VVDNJ BT] 2008z Fair QRN2 QSB3			
2008z	17/09 [NR 30 S 15 22:08:04 1983 BT PVDOT ... (TX Switched Off)] 2010z Fair QRN2 QSB3			

October:

5426kHz1949z	04/10[NR 82 O 04 21:49:56 1983 BT EATZW ... ULFTJ BT] 1956z Fair QRN2 QSB2	Spectre TUE	
5426kHz1956z	04/10[NR 83 O 04 21:56:07 1983 BT BFVDK ... YBPEJ BT] 2002z Fair QRN2 QSB2		
5426kHz2002z	04/10[NR 84 O 04 22:02:21 1983 BT HDOYK ... ETMZS BT] 2008z Fair QRN2 QSB2		
5426kHz2008z	04/10[NR 85 O 04 22:08:41 1983 BT SDLGD ... TWNUT BT] 2014z Fair QRN2 QSB2		
5426kHz2014z	04/10[NR 86 O 04 22:14:42 1983 BT PUHXE ... NCZBM BT] 2020z Fair QRN3 QSB2		
5426kHz2020z	04/10[NR 87 O 04 22:20:56 1983 BT ZYNFZ ... FAZBH BT] 2027z Fair QRN3 QSB2		
5426kHz2027z	04/10[NR 88 O 04 22:27:09 1983 BT EDHWH ... FTTAZ BT] 2033z Fair QRN3 QSB2		
5426kHz2033z	04/10[NR 89 O 04 22:33:20 1983 BT RWJBL ... BEDVQ BT] 2039z Fair QRN3 QSB3		
5426kHz2039z	04/10[NR 90 O 04 22:39:33 1983 BT JNVQF ... CDJPJ BT] 2045z Fair QRN3 QSB2		
5426kHz2045z	04/10[NR 01 O 04 22:45:47 1983 BT HRIJF ... EADXI BT] 2049z Fair QRN3 QSB3		
5426kHz2049z	04/10[NR 02 O 04 22:49:55 1983 BT EPTMX ... BAJMX BT] 2055z Fair QRN2 QSB3		
5426kHz2055z	04/10[NR 03 O 04 22:55:15 1983 BT ETFTA ... PTDTJ BT] 2100z Fair QRN2 QSB3		
5426kHz2100z	04/10[NR 04 O 04 23:00:19 1983 BT VSLQH ... QTIHA BT] 2110z Fair QRN3 QSB3		
5426kHz2110z	04/10[NR 05 O 04 23:10:35 1983 BT SFYIA ... YKLAT BT] 2116z Fair QRN3 QSB3		

NR Ø6 O Ø4 23:16:49 1983 BT
JCUYC GDEMP WRUPP AZLMC SOTLB LSOKI YLTQE MVVMY JNKBZ BHTVI
HLIBH ZOVSH QJWCA OYJPJ VSSXU OEWDY EQDJA UWECG JLNAJ YRWFG
GGMXT OFSDC WWQRD JNIPB PKLAI BNJNH AKHGG BAEYX OHWAG TKLGQ
ASDYS QBSXY SQPRC OMXHI GBXJA AECCK MEJMF KYNOO RKPOA SUUCH
QNLTH MQQYT JPF*E UNGYQ KSMNU NNQHZ MFKDU GTUTV KSTBM KSGAU
POZNN JIBIK IMQXH NTMBB TRNYQ OEZRO AITPL XOCIM SOHDA RCVQB
SXQLX GDLJI HSBAH OSAUB JCZFN DRADF XDCIZ NYHIR YZJSZ XFBNT
UBRBL HAECP VRARG QVMRT MZWTF VYATS JSQRY MMGPH KEYFM DDQSA
GDZSV VREHF BDNTK VVHKG WWETN OUVKN UAFXH UIXDC SM*DA QUAPK
SDGTP KWOMM LUSOH JUXQB MLFXE LUQQL CPVKV HHMQU ESPNQ TOVYJ

5426kHz2116z	04/10[NR 06 O 04 23:16:49 1983 BT JCUYC ... TOVYJ BT] 2123z Fair QRN3 QSB3	Spectre	TUE
5426KHz2123z	04/10[NR 07 O 04 23:23:04 1983 BT UREJA ... HGIGD BT] 2129z Fair QRN3 QSB3		
5426kHz2129z	04/10[NR 08 O 04 23:29:09 1983 BT LFCZJ ... SHCLC BT] 2135z Fair QRN3 QSB3		
5426kHz2135z	04/10[NR 09 O 04 23:35:30 1983 BT CKCTR ... HRFSW BT] 2141z Fair QRN3 QSB3		
5426kHz2141z	04/10[NR 10 O 04 23:41:51 1983 BT GCDVS ... IYUMP BT] 2148z Fair QRN3 QSB3		
5426kHz2148z	04/10[NR 11 O 04 23:48:12 1983 BT KXGUY ... TUIBT BT] 2154z Fair QRN3 QSB3		
5426kHz2340z	04/10[NR 29 O 05 01:40:38 1983 BT LDVQQ ... TWEIB BT] 2346z Fair QRN3 QSB3		
5426kHz2346z	04/10[NR 30 O 05 01:46:52 1983 BT RSYCA ... NATSH BT] 2353z Fair QRN3 QSB3		
5426kHz2353z	04/10[NR 31 O 05 01:53:01 1983 BT DOFHN ... PZVWT BT] 2359z Fair QRN2 QSB3		
5426kHz2359z	04/10[NR 32 O 05 01:59:18 1983 BT UQKQM ... YEVVB BT] 0005z Fair QRN3 QSB3		

NR 33 O Ø5 Ø2:Ø5:31 1983 BT
GHVFZ RVROQ QYXNL PSCAY OXFTP HDFNN HCLFL WKALJ LDDBH PITWT
IZKAD WZDVH LKVRI KJESQ AXBVR CQJTX JNCDB OHMAD RXGSH CDTHG
EWWUX MTIVB BQTAI OZJZA BJBZM QPHSL NLGAH HGJKI CURFH DNSTD
MMFDR OYFRU VEUGT EOEBC DQWPB MDHTD HOEMM JWXUM OTYZL HSNBZ
GSBEY JSZEE QNWCK LNHMK KHEDK IJJNY EWIQU VJZDX CAGVW FPHVN
XOMLP LFCXK ULJRT TKSKD XEIJG ZEHES SDZCZ QXVUN ZPKSZ VQHRD
TNOFC FVGTN OYEPG VELED BLBCP NPMYY SNFSU GLYSY YDIAB TPUNK
OXDVC KULSK KSHLZ CEBDJ CPKCY NAWOE XXEGQ DPCUA VBNES QNDKE
TQUUZ MARLQ EGJHH ZOJQW OSOMP CSAOA FSRLC KWBCM MDZNH VAOOT
SPMTL QQVRQ CZHLA SVKOS VMCVB PIOSC HBAKD MFRPB KSKCM VSXKW
BT

5426kHz0005z	05/10 [NR 33 O 05 02:05:31 1983 BT GHVFZ ... VSXKW BT] 0011z Fair QRN3 QSB3	Spectre	WED
5426kHz0011z	05/10[NR 34 O 05 02:11:44 1983 BT SCWXB ... KTAHK BT] 0017z Fair QRN3 QSB3		
5426kHz0018z	05/10[NR 35 O 05 02:18:01 1983 BT OIJVM ... GWQXC BT] 0024z Fair QRN3 QSB3		
5426kHz0024z	05/10[NR 36 O 05 02:24:20 1983 BT JIAJA ... HYFIM BT] 0030z Fair QRN3 QSB3		
5426kHz0030z	05/10[NR 37 O 05 02:30:33 1983 BT TVNIV ... KRCOY BT] 0036z Fair QRN3 QSB3		
6818kHz1957z	17/10[NR 08 O 17 21:57:17 1983 BT UBJYT ... VWMKI BT] 2003z Fair QRN2 QSB2	Spectre	MON

NR Ø9 O 17 22:Ø3:28 1983 BT
TLISP SSJWG KQARJ PJMGM TJNCG JEXUF WEVHU TJPWV ENVZN QMYDR
YIDCK IHOGN BPAPY SDCCI AGPWY BKXQH AMMXX FKXYL MIVJM FOAML
IBCGI QTKJQ WARFD HNPHR FBLQE CSUQP KLNPV XCMJN ZRYXJ JOONY
UXGPW CHWVW SBPPG JSSDB FSYNL FWPPT LLEHD IXXJO WITCB IBLAN
IJBHZ GTMAT LRWCT XJSXJ PQOMK QFYPP WQYJY LUSZS ZTNCL KJGJM
MOGDJ ATSOS MFBTW IBGEH BKVTQ UVRVF VIQNQ YSCKN ZTJKG YLPCS
YESJX AUHSU RCWFO GBKPG OKSDY WVTQS VSYBJ TPZGC TGDQE HSOWQ
YKWYC UZZAB XJKBZ KJHXH PQUII WYTXE LKJWP SYPFT UFFIG MZHRZ
IPSFN VEKZA EVECJ LMQFI LYWXC QCOWJ EGWXT BTIFC NTWCN UCGWQ
EQNVV HWMWW PCMAB FCHKY ZJKOP JYDPV MWKCG MZWHB WVENX NATMY
BT

6818kHz2003z	17/10[NR 09 O 17 22:03:28 1983 BT TLISP ... NATMY BT] 2009z Fair QRN2 QSB2		
6818kHz2009z	17/10[NR 10 O 17 22:09:52 1983 BT HOQWZ ... GGIPI BT] 2016z Fair QRN2 QSB2		
6818kHz2016z	17/10[NR 11 O 17 22:16:00 1983 BT QZTXD ... VLMVE BT] 2022z Fair QRN2 QSB2		
6818kHz2022z	17/10[NR 12 O 17 22:22:25 1983 BT ACLDS ... JJNET BT] 2028z Fair QRN2 QSB2		
6818kHz 2028z	17/10[NR 13 O 17 22:28:44 1983 BT BDMIN ... HYSNY BT] 2035z Fair QRN2 QSB2		
6818kHz 2035z	17/10[NR 14 O 17 22:35:01 1983 BT YQIZJ ... MMJNW BT] 2041z Fair QRN2 QSB2		
6818kHz 2041z	17/10[NR 15 O 17 22:41:19 1983 BT WSVXI ... RTISW BT] 2047z Fair QRN2 QSB2		
6818kHz 2047z	17/10[NR 16 O 17 22:47:34 1983 BT QINKS ... UDFZX BT] 2053z Fair QRN2 QSB2		

818kHz1924z	25/10[NR 73 O 25 21:24:53 1983 BT BDMFK ... SFO*S BT] 1931z Fair QRN2 QSB3	Spectre	TUE

BT NR 73 O 25 21:24:53 1983 BT
BDMFK SMSPD QCLDE VPADG ZFUHK HQTTU QNSZW FGOCW MMFLH XGPBN
BDUCU IDMSR TKBGB OVBJQ WVEGQ DBMDF KWRMZ ETFTH HBECL CDPNM
OVDNG DWRCB TVNLL EAPZE GMCKO TKYWA SZBOH IGWKK CHGZI MLVXD
AMEPT NVTOX ZMUUM TZVNE NJDJV KOLLI ZYPDS WPJDL TJHJV YXYXV
LVALU CZEWS UKYVL XHQZT JZACI DOHUD ANERL IZTFR WTPGZ BPEBV
ANQNM BRWKA YXIHX OYKAC HLZAN WQMFL OJUZL PLLSP JUQIC WPHKW
QOBLP AZNXJ NQHDA HSKJX VHDME ARFGV HSAYO VBHMI DSBVQ ZMGWO
VEGBC MWTRQ SCSTR RABOJ GBCVJ LXYZO PERJD YHOXJ ORRAN NPSUX
DXBJZ TGDIY GRCAU XMCHD PXKEW RDIDM JKVML EKXQZ ZAVUY IHLIP
NPHMD EUARI BAJUP VBCJH OCWFM YBVJY NSXAR JXDYD XKOWR SFO*S
BT

6818kHz1931z	25/10[NR 74 O 25 21:31:12 1983 BT FMHDY ... PIQSA BT] 1937z Fair QRN2 QSB3	Spectre	TUE
6818kHz1937z	25/10[NR 75 O 25 21:37:33 1983 BT EMUJX ... AOXKP BT] 1943z Fair QRN2 QSB3		
6818kHz1943z	25/10[NR 76 O 25 21:43:48 1983 BT MMJZD ... ECGIR BT] 1950z Fair QRN2 QSB3		
6818kHz1950z	25/10[NR 77 O 25 21:50:24 1983 BT KEUEG ... TMDQD BT] 1956z Fair QRN2 QSB3		
6818kHz1956z	25/10[NR 78 O 25 21:56:21 1983 BT DDXCT ... DBVVQ BT] 2002z Fair QRN2 QSB3		
6818kHz2002z	25/10[NR 79 O 25 22:02:26 1983 BT ENDHZ ... GMDUI BT] 2005z Fair QRN2 QSB3		

9320kHz1322z	24/10[NR 63 O 24 15:22:45 1983 BT SKIZD ... PATIA BT] 1327z Fair QRN3 QSB2	Spectre	MON
9320kHz1327z	24/10[NR 64 O 24 15:27:56 1983 BT TMKOY ... BGMAE BT] 1335z Fair QRN3 QSB2		
9320kHz1335z	24/10[NR 65 O 24 15:35:10 1983 BT SZDCE ... NKFAC BT] 1341z Fair QRN3 QSB2		
9320kHz1341z	24/10[NR 66 O 24 15:41:30 1983 BT *QIRT ... CXIRF BT] 1347z Fair QRN3 QSB2		
9320kHz1406z	24/10[NR 70 O 24 16:06:09 1983 BT WREMP ... JWRGH BT] 1412z Fair QRN3 QSB2		
9320kHz1412z	24/10[NR 71 O 24 16:12:21 1983 BT ZZIBH ... CARKX BT] 1418z Fair QRN3 QSB2		
9320kHz1418z	24/10[NR 72 O 24 16:18:39 1983 BT ILUAJ ... REHTT BT] 1425z Fair QRN3 QSB3		

Spectre kindly sent a number of sample messages [Thanks]. To preserve space a small representative files are shewn for M51.

M55 **O**
No reports

M62 **O**
No reports

M76 **O**
No reports

M87 **O**
 No reports

M89 **O**

The 'VVV' calls with 'QSA' ending appear to have ceased.
J-PL keeps a close eye on this station and makes good use of the Global Tuners network, as do a few other members which combined has added some more new freqs to our watch lists.
The short hand sent messages appear to have reduced but turn up in 'bunches' – tests ?

4860//6840	19.20	17/27 Sept	VVV Q2M de NYZ		
4225//5500	19.27z	"	V	7NPE de QV5B	
3797	19.32z	"	V	H2FL de DRV8	
10799	01.26z	18 Sept	V	WITN de GNXG with Intro Tfc	
(NR 45 RMKS 7 ..30198.9..N123 6/.../1930 LZ5/..3/9003/98.8 etc ,poor copy)					
3297	15.28z	18 Sept	V	GKVZ de Q7NW	
10180 New	11.30z	24 Sept	i/p	DKG6 de 3A7D , per EW	
10779	17.53z	"	V	WITN de GNXG	
5500//4225	18.16z	25 Sept	V	7NPE de QV5B	
10180	02.19z	"	V	DKG6 de 3A7D	
8040	22.58z	27 Sept	V	H2FL de DRV8	
6773	22.16z	28 Sept	V	H2FL de DRV8	
3642	22.18z	"	V	DKG6 de 3A7D	
4860//6840	22.20z	"		VVV Q2M de NYZ	
4982	13.33z	30 Sept	V	HJ4I de YI4K in traffic sending	

192 80 09 30 2139 BT etc, This call only heard on 4770 previously, No // found yet but there are probably another 3 day/night freqs out there. 4982 also now heard at 16.52 / 19.53 / 22.32z

4982	12.15z	02/06 Oct	V	HJ4I de YI4K , TX in extended repeating
				traffic, poss test or exercise.
5207 New	10.09z	04 Oct	V	HJ4I de YI4K, short hand sent mssg, x6 then at 11.48z starts sending

multiple short messages, already up to No 168 for the month.
YI4K not heard from 7 Oct – short term station ? New freqs ?
JPL turned up this additional info:-
ITU Monitoring, Tokyo some years ago placed it at.
Bearing 281 deg
Loc   E115 52 N32 37
This is additional to the Newsletter 66 update.
So it's not new but an irregular- wonder the purpose (Ed)

10640//6840	01.22z	07 Oct	VVV Q2M de NYZ	
6840//4860	19.20z	11 Oct	VVV Q2M de NYZ	
10779	03.15z	18 Oct	V	WITN de GNXG
7602	14.40z	19 Oct	V	DKG6 de 3A7D

M94 CW, MCW, partner station to V24
No reports -virtually unheard in Europe so we rely on our Americas monitors

SK01 (Data Mode generic classification, Cuban TX's)
See comments in Issue 49 which still apply.
J-Fl & DJs log mails provide details of ongoing developments.

Freqs reported
6768, 10432

SK01

6768kHz1600z	02/09 no copy weak qsb3 qrn5 weak	SC	FRI

Contributors
AB, BR, CB, Danix, DoK, EW, Fanis, FN, FS, Gert, GD, GN, HFD, JO, JPL, kd4kym,Mark SA, MB, ML, MP, MS, PoL, PP, RNGB, SC, Spectre, AnonEU, AnonUK

GERMAN BRANCH REPORT

Spy happenings and X06 logs – the report from ENIGMA2000's German Branch (E2Kde) and X06 team

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

As you can see, I am still on board and not arrested like the Russian spy couple in late October, although I also live in Marburg:-). You can imagine, that this event was reason enough for the German media to ask E2Kde for details about numbers stations. You will see more below, but before that, another media event, which is a bit longer ago, and as usual news and logs from the X06 team at the end.

Numbers stations' article in "Mysteries"

In the September/October edition of the "Mysteries" magazine you can find an article about numbers stations: "Spies on the air – via shortwave". This magazine is located in Basel/Switzerland, but the most readers come from Germany. There is only a print version in German available, which you can order via the website (www.mysteries-magazin.com).
The focus of the article itself is on an interview with me and of course general information about numbers stations, but it contains also a link to ENIGMA2000 and to the historical "case Kurras" numbers station, which was reconstructed by Jörg Drobick (JörgE2Kde) and placed on his website (http://scz.bplaced.net/d/kurras.mp3).

Numbers contribution in SWR3

The German spy case from the weekend of October 21st to 23rd was of course a subject of many German media. One radio journalist from the Southwest German Radio (SWR) asked me for numbers details. During this interview he could tell me also some details about the Russian spy couple, arrested in Marburg. They were living in Landau (Rhineland-Palatine) for some years, because the husband was working in the German agency of the French car buildling company "Faurecia". He was suspicious to make industrial espionage during his job. The wife was surprised while hearing and decoding a numbers station, as the police stormed the couple's appartement in Marburg (district Michelbach) on October 22nd. In the popular music programme SWR3, there was a short contribution about numbers stations between 1100 and 1130 UTC (that's 1300 to 1330 CEST). I will get a copy of it, and if it's short enough, it'll be sent to the "Files" section of our group, together with a short translation.

X06 team

It got 2 new members: Eddy from Southern Australia and WebWeasel from the Priyom team. He and his colleagues are supporting the X06 team with interesting logs, and as our Teamkopf I am in contact with Priyom. Eddy brings us very interesting logs from another area of this world, and it's amazing, that he can receive X06 and CROWD36 very clearly in Australia.

As you can now see, many things happened on the X06 subject:

X06 Mazielka (1C) logs section

Date	Day	UTC	Freq	Scale	Monitor	Comments
20110901	Thu	0727	15973	162543	Peter/UK	Fair, M228
20110902	Fri	0622	16320	241563	Peter	Good, M229
20110902	Fri	0854-0902	14824	625413	Hans/NO	Weak/fair, some local QRM, M230
20110902	Fri	0926-0927	16103	645321	Hans	Fair (new freq), R
20110902	Fri	0956	12215	361245	Peter	Good, M231
20110902	Fri	1102	16276	314265	Peter	Very weak, M232
20110902	Fri	1201-1207	16103	231654	Peter, Hans	Different scale, fair, R
20110905	Mon	0651-0656	10161	165324	Peter	Good, M233
20110906	Tue	0758-0802	12157	165423	Peter	Good, M234
20110907	Wed	0746-0751	12152	432516	Peter	Good, M235
20110907	Wed	0834-0844	14631	362154	Peter,Linkz	Fair, M236
20110907	Wed	0851	20690	156345	Linkz/FR	X06b(?)
20110907	Wed	0953-0957	18346	214356	Peter	Fair, M237
20110907	Wed	1642-1645	14871	156234	Peter	Alert type 2(1) Good, M238
20110907	Wed	1656-1657	13940	156234	Peter,Linkz	2(2) Weak/poor, M239
20110908	Thu	1524	9106	564213	Linkz	Strange modulation, M240
20110909	Fri	0744-0749	12177	215346	Peter, Hans	New style (error?), fair/strong
20110909	Fri	0749-0751	12177	356412	Peter, Hans	Fair/strong, M241
20110909	Fri	0754-0801	16115	215346	Hans	Alert 2(1) Fair/strong, M242
20110909	Fri	0801-0803	14650	215346	Hans	2(2) Strong, M243
20110909	Fri	0805-0807	16153	153624	Peter	M244
20110909	Fri	0956-1004	17463	256134	Peter	Alert 2(1) M245
20110909	Fri	1004-1005	19611	256134	Peter	2(2) M246
20110912	Mon	0954-0957	13517	463125	Hans	New style
20110913	Tue	1029-1031	9253	612534	Hans	Alert 2(1) Fair, R

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Date       Day UTC       Freq  Scale  Monitor      Comments
20110913 Tue 1032-1040 14675 612534 Hans         2(2) Fair/strong, R
20110914 Wed 1253-1304 14650 215346 Ian, Peter   1259-1302: CROWD36, 14656 kHz, R
20110914 Wed 1306-1308 14970 216354 Peter        Weak, R
20110914 Wed 1309       14871 156234 Peter        M247
20110915 Thu 0723-0726 12219 162543 Peter        M248 (CROWD36 before and after X06)
20110915 Thu 0735        8100 131-36 WebWeasel    X06b, S9+ (moved to several freqs)*
20110915 Thu 1157       13415 131-36 WebWeasel    X06b
20110915 Thu 1419        6940 131-36 Danix, Hans,
                                     WebWeasel,
                                     Ian Wraith   Very strong X06b
20110915 Thu 1406-1411 14871 156234 Peter        Fair, M249 (again framed by CROWD)
20110915 Thu 1628-1734  7730 131-36 WebWeasel    X06b
20110915 Thu 1735        8100 131-36 WebWeasel    X06b
20110916 Fri 0635       16320 241563 Alexinroma   New style, M250 (started w/ 463125)
20110916 Fri 0937-0938 16103 645321 RNGB         Monitored in progress, R
20110916 Fri 1000       12215 361245 Peter        New Style, M251
20110917 Sat 1013       20720 123456 WebWeasel    X06c on new freq!!
20110917 Sat 1130       22925 123456 Linkz        X06c on new freq, 5+ h active!!
20110918 Sun 0838       11090 123456 Linkz        X06c
20110918 Sun 0944       12060 351264 Linkz        Rare scale, R
20110918 Sun 1625       12223 1--2-- Mikesndbs    X06b with S7, monitored in progress
20110918 Sun 1723       12100 123456 Mikesndbs    X06c with S9
20110918 Sun 1840       10255 351264 Linkz        Alert 2, both R (1)
20110918 Sun 1845       11010 351264 Linkz        2(2)
20110919 Mon 1606-1614 11438 532614 Alex, Peter  Good in AM (CROWD36 at 1616), M252
20110919 Mon 1808        6940 123456 WebWeasel,
                                     Peter        X06c – very faint, but there
20110919 Mon 1930        7730 123456 Max/IT       X06c changed freq
20110920 Tue 0829-0833 14631 362154 Eddy/AU      R
20110920 Tue 0915-0924 18206 246531 Peter        Strong, M253
20110920 Tue 1738        7856 123456 FrankE2Kde   X06c
20110920 Tue 1756        7730 123456 Frank        X06c
20110920 Tue 1906       10871 123456 Frank        X06c on new freq!
20110920 Tue 2325-0255  7856 123456 Frank, Gary  X06c with S8
20110921 Wed 0756-0758 14377 432516 Peter        Weak, M254
20110922 Thu 0758-0802 12126 521634 Peter,
                                     Alex, Eddy   M255 (preceded by CROWD36)
20110922 Thu 0935-0939 13506 164532 Peter        Strong, M256
20110922 Thu 2023-2024 10731 314265 LU5EMM       M257**
20110926 Mon 0616-0620 14450 464646 RNGB         X06a i. p., 1 min break (0618-0619)
20110926 Mon 0620-0621 14450 246135 RNGB         Changed to test scale
20111001 Sat 0917       19511 314265 Linkz        Alert 2(1) R
20111001 Sat 0927       20665 325614 Linkz        New freq, R
20111001 Sat 0932       16276 314265 Linkz        2(2) R
20111003 Mon 0705-0710 10161 165324 Alex         S9+ in AM, M258
20111004 Tue 1157-1159 14650 215346 Peter        M259, new schedule
20111005 Wed 0954-1000 18346 214356 Alex         Very strong, M260
20111007 Fri 0940       17445 362154 WebWeasel    R
20111011 Tue 0802        9300 123456 Kopf, RNGB   X06c (i. p.)
20111011 Tue 1232-1239 12100 612534 LU5EMM       Alert 2(1) R
20111011 Tue 1240-1247 14675 612534 RNGB         2(2) Monitored i. p., R
20111012 Wed 0742-0745  9365 412356 KopfE2Kde    New style, M261
20111012 Wed 0753-0755 13419 465132 Kopf         M262
20111017 Mon 0653-0657 12122 165324 Alex         M263
20111017 Mon 1555-1558 11438 532614 Alex         M264, followed by CROWD36 1600-1603
20111018 Tue 1510-1519 14650 215346 Ian          M265 (CROWD36 on freqs nearby)
20111019 Wed 1000-1005 14501 214356 Ian          R (CROWD36 at 1006-1009, 14502 kHz)
20111020 Thu 0640       17468 436512 Fritz/CH     R
20111020 Thu 1913-1917  5412 213546 WebWeasel    Rare scale & freq (®), then CROWD36
20111021 Fri 1002-1007 14501 361245 Peter        M266
20111024 Mon 0941-0944 10372 431625 Alex         New style, M267
20111025 Tue 0843-0844 13420 534216 Alex         Very weak, M268
20111026 Wed 0907-0909 16116 134265 Alex         New style (carrier till 0912), M269
20111027 Thu 0753-0756 12126 521634 Alex         Very strong, M270
20111028 Fri 0741-0744 12213 615243 Alex         Very strong, M271
20111028 Fri 0823-0825 16153 153624 RNGB         I. p., R
20111028 Fri 0844-0849 10653 356412 Alex         New style, M272
20111031 Mon 1354-1401 16115 215346 Ian          Strong, R
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* Moved to: 9229, 10239, 10511, 10521, 10542, 10605, 10629, 10656, 10729, 10783, 10816, 10859, 10860, 10870, 10922, 10935, 10936, 10950, 11032, 11061, 11090, 11569 kHz, all with S9+, time difference approx. 30 seconds, ending 0745 UTC.
** Break of 1 minute, between 2025 and 2026 UTC 2nd TX with mixed tones.

As promised, many things happened, next time there will be more. Till then I say as usual "Auf Wiedersehen" and "Good-bye"

Jochen Schäfer, KopfE2Kde and X06 Teamkopf in Marburg, the main QTH of last October's spy happening

E06 [1A]   *See Spectre's E06 analysis after M23 charts at end of this section of NL*

PoSW's E06 logs to start:

First + Third Thursdays in the Month 2030 UTC Schedule:-
1-Sept-11:- 5,186 kHz, calling "891", DK/GC "246 246 15 15". Came complete with the distortion on audio peaks often noted in the past. Faint music heard off and on during the call-up, not sure if this was on E06's signal or something else on exactly the same frequency because later on there was the sound of a weak carrier being swept manually as though someone was swinging a VFO, might have been a UK CCF station taking exception to Ivan's presence in this part of the short-wave spectrum .

15-Sept-11:- 5,186 kHz, started approx. 25 seconds before the half-hour, "891" and "246 246 15 15", as last time. Strong signal but still had the distortion.

Friday 2130 UTC Schedule:-
2-Sept-11:- 5,197 kHz, call "634", DK/GC "124 124 15 15", good signal, no sign of the distortion noted on yesterday's 2030z sending.

16-Sept-11:- 5,197 kHz, "634" and "124 124 15 15", and the distortion is back.

21-Oct-11:- 5,197 kHz, calling "634", DK/GC "728 728 15 15", good signal, no distortion.

RNGB's Sept/Oct 2011 logs:

E06 Sept log:

Thurs	01/09	06.00	14835	'354' 00000
		20.30	5186	'891' 246 15 13245 24536 10928 27365 18420.....65745
Fri	02/09	21.30	5197	'634' 124 15 64756 46352 17263 46574 58675.....56378
Sat	03/09	00.30	6874	'759' 146 30 91221 69707 07235 97235 68459.....12112
Sun	11/09	00.30	6874	'759' 861 32 16852 67933 25372 05869 56634....(tx broke at 96647).....
Wed	14/09	19.19	4523	'829' 00000
		20.20	3892	'829' 00000
Thurs	15/09	06.00	14825	'354' 987 161 05436 71770 12282 57353.....18733
Fri	16/09	06.00	14830	'354' 987 161 05436 71770 12282 57353.....18733
Sat	17/09	00.30	6874	'759' 462 31 02020 11102 97621 21239 87671.....31770
Fri	23/09	06.00	14830	'354' 987 161 05436 71770 12282 57353.....18733
Sun	25/09	00.30	6874	'759' 284 30 85347 99550 66314 35916 73130.....11750

E06 Oct log:

Sat	01/10	00.30	6797	'759' 261 30 17725 63707 50885 39930 10036.....76468
Thurs	06/10	06.00	16320	'18'6 698 123 43347 07879 82244 12626.....51243
		20.30	5186	'891' 246 15 08921 13479 53276 14208 43152.....43729
Fri	07/10	06.00	16320	'186' 698 123 43347 07879 82244 12626.....51243
		21.30	5197	'634' 728 15 13878 92431 08432 78321 24568.....57326
Sun	09/10	00.30	6797	'759' 486 31 73698 59990 24994 02032 93843.....63973
Wed	12/10	19.19	4523	'829' 00000
		20.19	3892	'829' 00000
Sun	16/10	00.30	6797	'759' 620 31 05891 38747 36971 00608 87737.....48966
Thurs	20/10	20.30	5186	'891' 246 15 08921 13479 53276 14208 43152.....43729
Fri	21/10	06.00	16320	'186' 405 111 60931 99168 46110 28598.....75712
Sat	29/10	00.30	6797	'759' 824 30 51759 12054 20594 13905 34789.....35139

Other's logs:

September:

5179kHz 0130z	03/09[759 146 30 91221 … 12112 146 30 00000(f)] 0139z Very strong		(9m24s)	Spectre ,PLdn	SAT
0130z	04/09[759 146 30 91221 … 12112 146 30 00000(f)] 0139z Weak		(9m24s)	Spectre, PLdn	SUN
0130z	10/09[759 861 32 16852 … 62745 861 32 00000(f)] 0140z Strong, QSB2		(9m43s)	Spectre, FR	SAT
0130z	11/09 NRH			PLdn	SUN
0130z	17/09[759 462 31 02020 … 31770 462 31 00000(f)] 0040z Fair, QRM3		(9m37s)	Spectre,gtr	SAT
0130z	18/09[759 462 31 02020 …] Weak, QRM3, QSB to nil			PLdn	SUN
0130z	24/09[759 284 30 85347 … 11750 284 30 00000(f)] 0139z Very strong		(9m26s)	Spectre	SAT
0130z	25/09[759 284 30 85347 ... 11750 284 30 00000] 0139z Very strong		(9m26s)	PLdn	SUN

5186kHz 2030z	01/09[891 246 15 13245 ... 65745 246 15 00000(s)] Strong			PLdn, H-FD	THU
2030z	15/09[891 246 15 13245 … 65745 264 15 00000(s)]		(7m07s)	Spectre, FR	THU

891 246 15
13245 24566 10928 27365 12420 91285 14562 28915 90219 78235
12189 08766 14563 90987 65745
246 15 00000   *Courtesy Spectre*

5197kHz 2130z	02/09[634 124 15 64756 … 56378 124 15 00000(s)] 2138z Strong		(7m30s)	Spectre	FRI
2130z	16/09[634 124 15 64756 … 56378 124 15 00000(s)] 2137z Strong with audio distortion.		(7m01s)	Spectre ,PLdn	FRI

E06 5197kHz 2130z 02/09 Transcript:

634 124 15
64756 46352 17263 46574 58675 46152 36453 10999 89876 09899
25364 16253 46574 57684 56378
124 15 00000   *Courtesy Spectre*

6874kHz 0030z	03/09[759 146 30 91221 … 12112 146 30 00000(f)] 0039z Very strong	(9m24s)	Spectre	SAT

E06 6874/5179kHz 0030/0130z 03/09 Transcript:

```
759 146 30
91221 69707 07235 97235 68459 02683 49303 09847 24396 54488
07518 89741 32342 58352 56404 26420 99145 20274 59710 82449
31766 20620 22186 71099 19171 92397 24654 50469 96765 12112
146 30 00000                    Courtesy Spectre
```

0030z	04/09[759 146 30 91221 … 12112 146 30 00000(f)] 0039z Weak, QRM3/4	(9m24s)	Spectre	SUN
0030z	10/09[759 861 32 16852 … 62745 861 32 00000(f)] 0040z Strong, RTTYQRM2	(9m43s)	Spectre PLdn, FR	SAT

```
759 861 32
16852 67933 25372 05869 56664
33453 85406 60868 03036 32975
46386 09067 21044 96647 93760
06861 65833 48991 69939 41481
33876 87068 46502 25273 14434
58591 68748 92685 50947 91129
70834 62745 861 32 00000
                    Courtesy FR
```

0030z	11/09 Weak, fading out then restarting 0037z QSA1 OM		Fanis, PLdn	SUN
0030z	17/09[759 462 31 02020 … 31770 462 31 00000(f)] 0040z Fair, QSB2, QRN2	(9m37s)	Spectre ,PLdn	SAT

E06 6874kHz 0030z 17/09 Transcript:

```
759 462 31
02020 11102 97621 21239 87671 28514 53709 03348 89070 28391
90004 99912 45578 95659 93492 34172 59343 15205 36971 13708
74371 92820 60771 85220 29082 25313 86619 55859 48717 16453
31770
462 31 00000                    Courtesy Spectre
```

0030z	18/09[759 462 31 02020 … 31770 462 31 00000(f)] 0040z Fair, QRM3	(9m37s)	PLdn	SUN
0030z	24/09[759 284 30 85347 … 11750 284 30 00000(f)] 0039z Very strong	(9m26s)	Spectre ,PLdn	SAT
0030z	25/09[759 284 30 85347 ... 11750 284 30 00000] 0039z Strong		ADB, PLdn	SUN

```
759 284 30
85347 99550 66314 35916 73130 81607 42998 04758 11526 79985 44143 42984 96332
28152 84420 35656 86317 62284 31517 30158 38209 40042 18721 92912 58999 45759
89646 26731 61442 11750
284 30 00000                    Courtesy ADB
```

12210kHz0500z	01/09[354:0]		H-FD	THU
12210kHz0500z	16/09[354 987 161 05436 ... 18733 987 161 00000] Very strong signal, weak noise		FR	FRI
14830kHz0600z	16/09[354 987 161 05436 ... 18733 987 161 00000] Strong signal, strong noise		FR	FRI

```
354 987 161
05436 71770 12282 57353 42891 46297 10488 98764 42424 60944
55639 03153 28454 58820 55604 44281 59934 19547 75770 75264
03550 84315 78427 75637 90764 80472 87160 64371 64725 27387
94500 64033 64582 64150 49607 03751 40161 98202 09979 35493
89794 06970 19755 59038 47914 06480 22335 14474 52195 22706
51873 41958 73683 70407 94162 98703 83617 57089 13695 65008
03280 41644 23039 03345 61581 89441 04488 68532 59601 32851
87866 91314 95852 94660 56429 26115 23423 60027 25348 74944
53444 97482 77955 59434 37612 92195 91280 72244 02685 28318
95720 73311 18859 26306 23909 81485 93268 86625 77379 76591
69158 80762 74450 89633 84564 83243 49325 40017 76421 21871
83373 55217 68247 09133 14274 15945 75016 23194 59232 65903
62160 54476 22836 99216 02366 40798 35817 60621 32902 95295
49693 09199 43721 06653 56464 50010 15624 91347 52229 05940
80264 71090 11811 66870 80697 54782 80349 36060 64624 29944
06059 16190 01462 64215 42992 91373 45169 77304 43304 78654
18733 987 161 00000                    Courtesy FR
```

14835kHz0600z	01/09 [354 00000] Strong		Hans, H-FD	THU

October 2011

5122kHz 0130z	02/10[759 261 30 17725 … 76468 261 30 00000(f)] 0140z Fair, noisy	(9m27s)	Spectre PLdn	SUN
0130z	08/10[759 486 31 73698 … 72375 486 31 00000(f)] 0140z Very strong	(9m36s)	Spectre PLdn	SAT
0130z	09/10[759 486 31 73698 … 72375 486 31 00000(f)] 0140z Very strong	(9m36s)	Spectre PLdn	SUN
0130z	15/10[759 620 31 05981 … 48966 620 31 00000(f)]0140z Very strong	(9m38s)	Spectre PLdn	SAT
0130z	16/10[759 620 31 05981 … 48966 620 31 00000(f)] 0140z Very strong	(9m38s)	Spectre PLdn	SUN
0130z	29/10[759 824 30 51759 ... 35139 824 30 00000(f)] 0139z Fair QRN2 QSB2		Spectre	SAT
0130z	30/10[759 824 30 51759 … 35139 824 30 00000(f)] 0139z Strong	(9m26s)	PLdn	SUN
5132kHz 0130z	23/10[759 210 34 50213 ... 05548 210 34 00000(f)] 0140z Fair QRN2 QSB2		Spectre	SUN
5186kHz2030z	06/10[891 246 15 08921 … 43729 246 15 00000(s)] 2037z Strong	(7m05s)	Spectre PLdn	THU
2030z	20/10[891 246 15 08921 … 43729 246 15 00000(s)] Strong, delivery different.	(5m37s)	Spectre FR, PLdn	THU

```
891 246 15
08921 13479 53276 14208 43152
78569 04721 43189 48720 19438
53764 92783 14280 43871 43729
246 15 00000        Courtesy FR
```

Freq	Time	Message	Notes	Duration	Logger	Day
5186kHz	2030z	20/10[891 246 15 08921 … 43729 246 15 00000(s)] Strong, delivery different.		(5m37s)	PLdn	THU
5197kHz	2130z	07/10[634 728 15 13878 ... 57326 728 15 00000(s)] 2137z Fair QRN3 QSB2			Spectre	FRI
	2130z	21/10[634 728 15 13878 …57326 728 15 00000(s)]		(10m06s)	Spectre FR, PLdn	SAT

```
634 728 15
13878 92431 08432 78321 24568
03219 43872 46821 92843 08431
38724 95317 46523 80794 57326
728 15  00000        Courtesy FR
```

Freq	Time	Message	Notes	Duration	Logger	Day
6797kHz	0030z	01/10[759 261 30 17725 … 76468 261 30 00000(f)] 0040z Very strong	(5122kHz not heard)	(9m27s)	Spectre, PLdn	SAT
	0030z	02/10[759 261 30 17725 … 76468 261 30 00000(f)] 0040z Weak, noisy		(9m27s)	Spectre, PLdn	SAT

```
759 261 30
17725 63707 50885 39930 10036 05490 35052 07648 36055 37882
34190 17637 99600 34058 59555 28115 76398 70862 61459 96080
53673 70528 56605 07760 51091 49129 89115 77490 83983 76468
261 30 00000                Courtesy Spectre
```

Freq	Time	Message	Notes	Duration	Logger	Day
	0030z	08/10[759 486 31 73698 … 72375 486 31 00000(f)] 0040z Very strong		(9m36s)	Spectre, PLdn	SAT
	0030z	09/10[759 486 31 73698 … 72375 486 31 00000(f)] 0040z Very strong		(9m36s)	Spectre, PLdn	SUN

```
759 486 31
73698 59990 24994 02032 93843 43542 57973 48391 59807 78478
29610 48302 52650 32468 65144 37407 72824 93987 12992 62937
57240 26369 58727 72375 16342 21942 39559 04569 83391 17212
63973
486 31 00000                Courtesy Spectre
```

Freq	Time	Message	Notes	Duration	Logger	Day
	0030z	15/10[759 620 31 05981 … 48966 620 31 00000(f)]0040z Very strong		(9m38s)	Spectre, PLdn	SAT
	0030z	16/10[759 620 31 05981 … 48966 620 31 00000(f)]0040z Very strong		(9m38s)	Spectre, PLdn	SUN

```
759 620 31
05891 38747 36971 00608 87737 55794 73923 31803 12351 29352
42887 50790 69330 18595 11421 80751 83328 79088 56801 30106
89135 92676 62087 45049 99282 76539 72578 22461 18902 31757
48966
620 31 00000                Courtesy Spectre
```

Freq	Time	Message	Notes	Duration	Logger	Day
6797kHz	0030z	22/10[759 210 34 50213 … 05548 210 34 00000(f)] Strong	*5122kHz XJT QRM5*	(10m06s)	Fanis, Spectre	SAT
	0030z	23/10[759 210 34 50213 … 05548 210 34 00000(f)] Very stromg	*5122kHz not heard*	(10m06s)	Spectre, PLdn	SUN

```
759 210 34
50213 76370 56418 34231 92560 62380 86648 30328 17981 15248
85181 20834 93985 84025 29777 32023 14318 24323 07934 23627
63843 66490 76549 80893 47589 04600 25589 26671 19900 85916
44190 45685 74603 05548
210 34 00000                Courtesy Spectre
```

Freq	Time	Message	Notes	Duration	Logger	Day
	0030z	29/10[759 824 30 51759 ... 35139 824 30 00000(f)] 0039z Fair QRN3 QSB3			Spectre, DanAr	SAT

6797/5122kHz 0030/0130z 29/10 Transcript:

```
759 824 30
51759 12054 20594 13905 34789 42346 78153 84039 56425 01711
12820 56248 60199 75939 69249 07309 72460 84059 53981 01919
51736 68879 06913 43839 13189 63023 50220 14241 89107 35139
824 30 00000
```

Freq	Time	Message	Notes	Duration	Logger	Day
	0030z	30/10[759 824 30 51759 … 35139 824 30 00000(f)] 0039z Fair, QRM2		(9m26s)	PLdn	SUN

E07 [1B]

PoSW's logs to start:

E07 English transmissions in the UK evening time use the same frequencies as in any given month in the past few years. With the end of British Summer Time on the last weekend of October is expected to move by one hour UTC so still appears at the same local time - how convenient!

Sunday + Wednesday Schedule:-
4-Sept-11, Sunday:- 1700 UTC, 12,223 kHz, "201 201 201 000".
1720 UTC, 11,062 kHz, second sending, S9+ signal.

11-Sept-11, Sunday:- 1700 UTC, 12,223 kHz, "201 201 201 000".
1720 UTC, 11,062 kHz, second sending, difficult to hear, clearer towards the end of the transmission.

14-Sept-11, Wednesday:- 1700 UTC, 12,223 kHz, calling "201 201 201 1", so a full message sent three times! DK/GC "226 68" x 2. S9+ signal with good audio.
1720 UTC, 11,062 kHz, second sending, good signal.
1740 UTC, 10,116 kHz, third sending inside the 30 metre amateur band with CW in full flow.

28-Sept-11, Wednesday:- 1700 UTC, 12,223 kHz and 1720 UTC, 11,062 kHz, "201 201 201 000", S9+ signal with excellent modulation on both transmissions.

2-Oct-11, Sunday:- 1700 UTC, 11,454 kHz, moving lower in frequency as the hours of daylight grow shorter, "441 441 441 000". strong "XJT" on HF side removed by using the receiver in LSB mode.
1720 UTC, 9,428 kHz, presumed to be the second sending, flattened by strong BC station,
no complaints please, this is inside the 31 metre broadcast band after all! Carrier went off 1722 and 28 seconds UTC.

16-Oct-11, Sunday:- 1700 UTC, 11,454 kHz, "441 441 441 000", with "XJT".

<u>Monday + Wednesday Schedule:-</u>
7-Sept-11, Wednesday:- 1900 UTC, 12,108 kHz, "172 172 172 000". S9 signal with good audio.
1920 UTC, 10,708 kHz, second sending, also a good signal.

12-Sept-11 Monday:- 1900 UTC, 12,108 kHz, "172 172 172 000", S9+ with *excellent* audio!
1920 UTC, 10,708 kHz, second sending, also a very good signal.

28-Sept-11, Wednesday:- 1900 UTC, 12,108 kHz and 1920 UTC, 10,708 kHz, both good signals, "172 172 172 000".

3-Oct-11, Monday:- 1920 UTC, 9,243 kHz, second sending of October's schedule, "229 229 229 000", S9+, good audio.

5-Oct-11, Wednesday:- 1900 UTC, 10,243 kHz, "229 229 229 000", S9+, good audio.
1920 UTC, 9,243 kHz second sending, excellent signal.

17-Oct-11, Monday:- 1904 UTC, 10,243 kHz, first sending in progress with a full message.
Signal weaker and audio lower than in recent times.
1920 UTC, 9,243 kHz, "229 229 229 1", DK/GC "422 34" x 2, deep QSB and modulation
somewhat low.
1940 UTC, 7,943 kHz, third sending, low audio.

<u>Thursday Schedule:-</u>
1-Sept-11:- 2010 UTC, 9,387 kHz, "358 358 358 000", S9+ signal with excellent audio.
2030 UTC, 7,526 kHz, second sending, also a good signal

15-Sept-11:- 2010 UTC, 9,387 kHz and 2030 UTC, 7,526 kHz, both good signals, "358 358 358 000".

22-Sept-11:- 2030 UTC, 7,526 kHz, "358 358 358 000", much weaker than last week.

6-Oct-11:- 2010 UTC, 7,516 kHz, "584 584 584 1", DK/GC "507 44" x 2.
2030 UTC, 5,836 kHz, second sending.
2050 UTC, 4,497 kHz, third sending, all three good signals.

<u>Wednesday E07a SSB Schedule:-</u>
7-Sept-11:- 2000 UTC, that's 9 post meridian in this here United Kingdom, 8,173 kHz, "147 147 147 000". Strong SSB signal.
2020 UTC, 7,473 kHz, second sending, also strong.

14-Sept-11:- 2000 UTC, 8,173 kHz, "147 147 147 000", very strong signal.

28-Sept-11:- 2000 UTC, 8,173 kHz, "147 147 147 1 32027", so a full message with three transmissions, then. DK/GC "576 55" x 2, strong signal.
2020 UTC, 7,473 kHz, second sending, heterodyne from the carrier of a strong broadcaster on 7,475 kHz.
2040 UTC, 5,773 kHz, third sending, strong signal.

5-Oct-11:- October sees, as in previous years, the expected change of frequencies from those used throughout the spring and summer months:-
2000 UTC, 5,864 kHz, "815 815 815 1 65552", DK/GC "750 85" x 2, S9+ SSB signal.
2020 UTC, 5,164 kHz second sending, strong signal, must be beamed in my direction!
2040 UTC, 4,564 kHz, third sending, strong signal over-riding an "XJT".

12-Oct-11:- 2020 UTC, 5,164 kHz, "815 815 815 000".

RNGB's Sept/Oct 2011 logs:

E07 Sept log:

Thurs	01/09	07.00	6893	'841' 000
Sun	11/09	17.00	12223	'210' 000
Mon	12/09	19.00	12108	'172' 000
Wed	14/09	20.00	8173	'147' 000
Mon	19/09	19.00	12108	'172' 000
Tues	20/09	07.20	7493	'841' 000
Wed	21/09	20.00	8173	'147' 000
Sun	25/09	17.00	12223	'201' 000
Thurs	29/09	07.00	6893	'841' 000
Thurs	29/09	20.10	9387	'358' 507 44 73076 84453 06622 35404

E07 Oct log:

Mon	03/10	19.20	9243	'229' 000
Tues	04/10	07.20	6982	'795' 000
Wed	05/10	18.00	10243	'229' 000
Thurs	06/10	07.20	6982	'795' 000
		20.10	7516	'584' 1 507 44 73076 84453 06622 35404
Mon	10/10	19.00	10243	'229' 1 422 34 77553 22568 43896 04693
Tues	11/10	07.00	5782	'795' 000
Sun	16/10	17.00	11454	'441' 000
Tues	18/10	07.20	6982	'795' 000
Wed	19/10	20.00	5864	'815' 000
Mon	24/10	19.40	7943	'229' 1 758 20 46263 44564 71884 75624.....

E07 Other's logs:

<u>September 2011</u>

5884kHz2050z	29/09[358 358 358 1 ... 000] 2057z QSA2 OM		Fanis	THU	
6893kHz 0700z	01/09[841 000] Fair	(2m13s)	PLdn, H-FD	THU	
0700z	06/09[841 841 841 000]		FN	TUE	
0700z	08/09[hardly audible] QRM dig sta		FN	THU	
0700z	13/09[841 841 841 000] 0702z Fair STANAGQRM4 QSB3		Spectre	TUE	
0700z	20/09[841 …] Mostly obviated by XJT		PLdn	TUE	
0700z	22/09 [841 841 841 000] 0702z Fair QRN2 QSB2		Spectre	THU	
0700z	27/09[841 000] Fair, QRM2	(2m13s)	PLdn	TUE	
7493kHz 0720z	01/09[841 000] Fair	(2m13s)	PLdn, H-FD	THU	
0720z	06/09[841 841 841 000]		FN	TUE	
0720z	08/09[841 841 841 000]		FN	THU	
0720z	13/09[841 000] Fair	(2m13s)	Spectre , PLdn	TUE	
0720z	20/09[841 000] Fair, QRM2/3	(2m13s)	PLdn	TUE	
0720z	22/09[841 000] Fair, noisy	(2m13s)	Spectre , PLdn	THU	
0720z	27/09[841 000] Fair, QRM2	(2m13s)	PLdn	TUE	
7526kHz 2030z	01/09[358 000] 2033z Strong		F, H-FD, Spectre	THU	
2030z	08/09[358 358 358 000] 2032z QSA2 QRM1 OM		Fanis	THU	
2030z	15/09[358 358 358 000] 2032z QSA3		Fanis	THU	
2030z	29/09[358 358 358 1 ... 000] 2037z QSA2 OM		Fanis	THU	
9387kHz 2010z	01/09[358 358 358 000] 2012z Fair QRN2 QSB2		Spectre, H-FD	THU	
2010z	08/09[358 358 358 000] 2012z QSA2 QRM BC OM		Fanis, HJH	THU	
2010z	29/09[358 358 358 1 ... 000] 2017z QSA3 OM		Fanis	THU	
10116kHz1740z	14/09[201 1 226 68 87163 ... 10574 000 000] 1748z Fair QRN2 QSB2		Spectre, PLdn	WED	
1740z	18/09[201 1 226 68 ?????] Strong carrier, very low audio, noisy *		FR, mndbs	SUN	
10708kHz 1920z	05/09[172 000] 1922z Fair	(2m13s)	PLdn, FN, H-FD	MON	
1920z	07/09[172 000] Strong	(2m13s)	Fanis, Spectre	WED	
1920z	12/09[172 000] Fair	(2m13s)	PLdn, HJH,Fanis	MON	
1920z	14/09[172 000] Weak, QRM2	(2m13s)	PLdn	WED	
1920z	19/09[172 000] Strong, QRM2	(2m13s)	Spectre	MON	
1920z	21/09[172 000] Fair, QRM3/4	(2m13s)	Spectre, AE	WED	
1920z	26/09[172 000] Weak	(2m14s)	PLdn	MON	
1920z	28/09[172 000] Good audio		Spectre HJH, FN	WED	
11062kHz 1720z	04/09[201 000] Fair/Strong	(2m13s)	PLdn, FN, H-FD	SUN	
1720z	07/09[201 000] Strong	(2m13s)	PLdn	WED	
1720z	11/09 Noise only	(2m13s)	PLdn	SUN	
1720z	14/09[201 1 226 68 87163 … 10574 000 000]Fair, good audio	(9m22s)	Spectre	WED	
1720z	18/09[201 1 226 68 ?????] Strong carrier, very low audio, noisy		FR, mndbs	SUN	
1720z	25/09[201 000] Weak	(2m13s)	Spectre	SUN	
1720z	28/09[201 000] Fair	(2m13s)	Spectre, FN	WED	
12108kHz 1900z	05/09[172 000] 1902z Weak, QRM2/3	(2m13s)	Spectre, FN, H-FD	MON	
1900z	07/09[172 000] Fair, local QRM3	(2m13s)	PLdn	WED	
1900z	12/09[172 000] Fair	(2m13s)	Spectre	MON	
1900z	14/09[172 000] QRM4/5	(2m13s)	PLdn	WED	
1900z	19/09[172 000] Strong	(2m13s)	Spectre	MON	
1900z	21/09[172 000] Strong	(2m13s)	Spectre	WED	
1900z	26/09[172 000] Weak	(2m14s)	PLdn	MON	
1900z	28/09[172 172 172 000]		FN, Spectre	WED	
12223kHz 1700z	04/09[201 201 201 000]		FN, PLdn	SUN	
1700z	07/09[201 000] Fair	(2m13s)	PLdn	WED	
1700z	11/09[201 000] Weak audio, strong carrier	(2m13s)	FR, PLdn	SUN	
1700z	14/09[201 1 226 68 87163 … 10574 000 000]Fair, QRM3 at end	(9m22s)	Spectre	WED	
1700z	18/09[201 1 226 68 ?????] Strong carrier, very low audio, noisy		FR, mndbs	SUN	
1700z	25/09[201 000] Weak and noisy	(2m13s)	Spectre	SUN	
1700z	28/09[201 000] Fair	(2m13s)	Spectre, FN	WED	

<u>October 2011</u>

4497kHz2050z	06/10[584 1 507 44 73076 ... 55585 000 000] 2057z Fair QRN3 QSB2		Spectre	THU	
5782kHz0700z	11/10[795 000]Fair, noisy	(2m13s)	PLdn	TUE	
0700z	23/10[795 000]Fair, noisy	(2m13s)	PLdn	TUE	
5836kHz 2030z	06/10[584 1 507 44 73076 ... 55585 000 000] 2037z Fair BCQRM3 QSB2		Spectre	THU	
2030z	20/10[584 584 584 000] 2032z Weak QRN2 QSB3		Spectre	THU	
6982kHz0720z	11/10[795 000]Fair, noisy	(2m13s)	PLdn	TUE	
0720z	25/10[795 000]Fair, very noisy	(2m13s)	MalcF, PLdn	TUE	

7516kHz2010z	06/10 [584 1 507 44 73076 ... 55585 000 000] 2017z Fair QRN3 QSB2		Spectre	THU

E07 7516/5836/4497kHz 2010/2030/2050z 06/10 Transcript:

```
584 1 507 44
73076 84453 06622 35404 85689 19127 10528 79375 25249 28836
52550 47114 21361 30347 96219 83187 77105 67604 56924 91689
81954 88031 80429 50674 19370 32758 80704 34565 19669 56771
75854 95369 78264 46909 09573 27560 29479 02659 40285 81521
79167 63055 12272 55585
000 000                         Courtesy Spectre
```

2010z	20/10 [584 584 584 000] 2012z Weak QRN2 QSB3		Spectre	THU
2010z	27/10[584 000] Very strong signal, almost no noise		FR,AIK	THU
7943kHz1940z	10/10[229 1 422 34 77553 ... 76338 000 000] 1946z Fair QRN2 QSB2		Spectre, HJH, PLdn	MON
1940z	12/10[229 1 422 34 77553 ... 76338 000 000] 1946z Weak QRN2 QSB2		Spectre	WED
1940z	17/10[229 1 422 34 77553 ... 76338 000 000] 1946z Weak QRN3 QSB4		Spectre,HJH,FN	MON
8123kHz1740z	23/10[441 1 723 41 60735 … 45677 000 000] Strong		FR	SUN
1740z	30/10[441 1 127 76 10582 ... 76051 000 000] Very strong signal, weak noise		FR	SUN
9243kHz1920z	05/10[229 229 229 000] 1922z Fair QRN2 QSB2		Spectre	WED
1920z	10/10[229 1 422 34 77553 ... 76338 000 000] 1926z Fair QRN2 QSB2		Spectre	MON
1920z	12/10[229 1 422 34 77553 ... 76338 000 000] 1926z Weak QRN2 QSB2		Spectre	WED
1920z	17/10[229 1 422 34 77553 ... 76338 000 000] 1926z Weak QRN3 QSB4		Spectre	MON
9423kHz1720z	02/10[441 000] Occasional characters, BCQRM4	(2m13s)	PLdn, FN	SUN
1720z	12/10 Strong, BCQRM4, odd characters only	(10m11s)	PLdn	WED
1720z	19/10 Strong, BCQRM4, odd characters only	(2m13s)	PLdn	WED
1720z	23/10[441 1 723 41 60735 … 45677 000 000] Strong		FR	SUN
10243kHz1900z	05/10[229 229 229 000] 1902z Fair QRN2 QSB2 Spectre, FN WED			
1900z	10/10[229 1 422 34 77553 ... 76338 000 000] 1906z Fair QRN2 QSB2 Spectre, FN, PLdn MON			
1900z	12/10[229 1 422 34 77553 ... 76338 000 000] 1906z Fair QRN2 QSB2 Spectre, PLdn WED			
1900z	17/10[229 1 422 34 77553 ... 76338 000 000] 1906z Weak QRN3 QSB4 Spectre, FN, PLdn MON			

E07 10243/9243/7943kHz 1900/1920/1940z 10/12/17/10 Transcript:

```
229 1 422 34
77553 22568 43896 04693 55422 22028 82348 81203 76530 79418
99520 05472 48737 95075 77665 07748 43246 40938 53108 64026
53329 38498 27369 50583 01839 51089 42484 86982 19117 43891
91572 09672 06593 76338
000 000                         Courtesy Spectre
```

11454kHz1700z	02/10[441 000] Fair	(2m13s)	FN, PLdn	SUN
1700z	12/10[441 503 76 33419 … 19857 000 000] Strong	(10m11s)	PLdn	WED
1700z	19/10[441 000] Strong, QRN2	(2m13s)	PLdn	WED
1700z	23/10[441 1 723 41 60735 … 45677 000 000] Strong		FR, PLdn	SUN

```
441 1 723 46
60735 62744 59665 75858 45081
19622 76391 38977 02475 52757
70966 44960 57659 83523 66763
89582 73237 57116 32678 27294
10750 97663 45512 68939 34753
95103 27085 19519 29452 48752
80339 45933 80236 08095 44789
93044 79870 25033 01864 44244
00358 31804 56285 93843 96085
46577 000 000      Courtesy FR
```

1700z	30/10[441 1 127 76 10582 ... 76051 000 000] Very strong signal, weak noise /strong noise fading in and out		FR	SUN

```
441 1 127 76
10582 92448 36751 02011 77541
03726 00841 64736 02744 68968
60375 02079 32122 18288 87777
99890 70191 28403 81039 98507
57596 64170 53935 90359 18045
834?8 12283 78664 00493 02434
76924 93702 04272 00026 40037
44274 09494 43827 62105 66377
16663 29207 48743 62000 15307
73236 71542 12165 58188 51115
50499 63656 35354 18218 83119
79784 08080 29007 54307 93651
10251 72638 76052 54413 85064
90256 22699 21782 50384 85042
09300 10858 29778 74450 49560
76051 000 000      Courtesy FR
```

12230kHz1700z	16/10 Strong Carrier only		JDA	SUN

Freq	Time	Transmission	Duration	Logged	Day
5773kHz	2040z	28/09[147 1 32027 576 55 94543 … 70464 000 000] Very strong	(7m05s)	PLdn, Spectre	WED
7437kHz	0430z	01/09[411 000]Strong	(2m13s)	Hans, PLdn	THU
	0430z	08/09[411 000]Strong	(2m13s)	BR, PLdn	THU
	0430z	15/09[411 000] Very strong	(2m13s)	Spectre	THU
	0430z	22/09[411 000] Strong	(2m13s)	Spectre	THU
	0430z	29/09[411 1 32027 576 55 94543 … 70464 000 000] Strong	(7m05s)	PLdn	THU
7473kHz	2020z	07/09[147 000]Strong	(2m13s)	Spectre	WED
	2020z	14/09[147 000]Very strong	(2m13s)	PLdn	WED
	2020z	21/09[147 000] Very strong	(2m13s)	Spectre	WED
	2020z	28/09[147 1 32027 576 55 94543 … 70464 000 000] Strong, BCQRM3/4	(7m05s)	Spectre, FN	WED
8137kHz	0450z	01/09[411 000]Strong	(2m13s)	PLdn	THU
	0450z	08/09[411 000]Strong	(2m13s)	BR, PLdn	THU
	0450z	15/09[411 000] Very strong	(2m13s)	Spectre	THU
	0450z	22/09[411 000] Strong, localQRM3	(2m13s)	Spectre	THU
	0450z	29/09[411 1 32027 576 55 94543 … 70464 000 000] Strong	(7m05s)	PLdn	THU
8173kHz	2000z	07/09[147 000]Strong	(2m13s)	Spectre	WED
	2000z	14/09[147 000]Very strong	(2m13s)	PLdn	WED
	2000z	21/09[147 000]Very strong	(2m13s)	Spectre	WED
	2000z	28/09[147 1 32027 576 55 94543 … 70464 000 000] Very strong	(7m05s)	Spectre, FN, RNGB	WED

E07a 8173/7473/5773kHz 2000/2020/2040z 28/09 Transcript:

```
147 1 32027 576 55
94543 58925 57645 68624 96951 79160 54599 32493 74334 37820
97300 65576 46002 37200 48347 43680 36113 85847 13786 17743
02350 74253 49291 71867 45447 82032 49125 62524 20783 87728
60572 39247 09698 49204 62003 25088 85552 43770 39244 09506
83477 01173 17868 81869 24662 67836 63498 91105 54395 83168
09864 46908 59628 64597 70464
000 000                          Courtesy Spectre
```

Freq	Time	Transmission	Duration	Logged	Day
9137kHz	0510z	29/09[411 1 32027 576 55 94543 … 70464 000 000] Strong	(7m05s)	PLdn	THU

October 2011:

Freq	Time	Transmission	Duration	Logged	Day
4564kHz	2040z	05/10[815 1 65552 750 85 42255 … 49167 000 000]Very strong, XJTQRM2	(9m32s)	PLdn, Spectre	WED
	2040z	26/10[815 1 65552 750 85 42255 ... 49167 000 000] 2049z Strong RTTYQRM3 QSB2		Spectre	WED
5146kHz	0430z	06/10[188 1 65552 750 85 42255 … 49167 000 000]Very strong	(9m32s)	PLdn, Spectre	THU
	0430z	13/10[188 000]Very strong	(2m13s)	PLdn, FN, Spectre	THU
	0430z	20/10[185 000]Very strong	(2m13s)	PLdn, Spectre	THU
	0430z	27/10[188 1 65552 750 85 42255 … 49167 000 000]Very strong	(9m31s)	PLdn	THU
5164kHz	2020z	05/10[815 1 65552 750 85 42255 … 49167 000 000]Very strong	(9m32s)	PLdn	WED
	2020z	12/10[815 000] Fair	(2m13s)	PLdn	WED
	2020z	19/10[815 000] Strong	(2m13s)	PLdn	WED
	2020z	26/10 [815 1 65552 750 85 42255 ... 49167 000 000] 2029z Strong STANAGQRM3 QSB2		Spectre	WED
5846kHz	0450z	06/10[188 1 65552 750 85 42255 … 49167 000 000]Very strong	(9m32s)	PLdn	THU
	0450z	13/10[188 000]Very strong	(2m13s)	PLdn, FN	THU
	0450z	20/10[185 000]Very strong	(2m13s)	PLdn	THU
	0450z	27/10[188 1 65552 750 85 42255 … 49167 000 000]Very strong	(9m31s)	PLdn	THU
5864kHz	2000z	05/10[815 1 65552 750 85 42255 … 49167 000 000]Very strong	(9m32s)	PLdn, RNGB	WED
	2000z	12/10[815 000] Fair	(2m13s)	PLdn	WED
	2000z	19/10[815 000] Strong	(2m13s)	PLdn	WED
	2000z	26/10[815 1 65552 750 85 42255 ... 49167 000 000] 2009z Strong QRN2 QSB2		Spectre	WED

E07a 5864/5164/4564kHz 2000/2020/2040z 05/26/10 Transcript:

```
815 1 65552 750 85
42255 31806 63499 88413 91000 50751 46878 82998 98929 86780
94594 29265 32986 20313 76926 88224 79056 19789 38069 00275
53469 17133 29018 25210 93141 31654 37027 16225 42965 59326
02464 27625 96747 88386 61357 71433 38552 59178 55681 63069
32404 46147 13530 64054 07683 38751 34935 91175 21154 07005
33120 28322 01058 26632 35596 49999 47738 17020 12794 67854
20031 35608 48926 93662 81761 28229 46215 78476 94857 48583
39443 45261 51430 35660 86979 62473 14236 31701 01086 77645
53283 25172 35218 68488 49167
000 000                          Courtesy Spectre
```

Freq	Time	Transmission	Duration	Logged	Day
6846kHz	0510z	06/10[188 1 65552 750 85 42255 … 49167 000 000]Very strong	(9m32s)	PLdn	THU
	0450z	27/10[188 1 65552 750 85 42255 … 49167 000 000]Very strong	(9m31s)	PLdn	THU

4909kHz 1445z	30/09 [287/00] repeated until 1448z		Pertti	SAT
1445z	08/10 [287/00]		Fritz	SAT
0900z	22/10 [248/00]		Fox	SAT
1445z	22/10 [287/00] Weak		RNGB	SAT
5463kHz 1855z	16/09 [262/00] 1858z Very strong		Danix	FRI
1855z	23/09 [262/00] Strong		RNGB	FRI
1855z	28/10 [262/00] Good		RNGB	FRI
5737kHz 1240z	11/10 [349/00] Weak		RNGB	TUE
1240z	25/10 [349/00] 1243z Weak QRN3 QSB3		Spectre	TUE
5855kHz 0600z	17/10 [262/00]		RNGB	MON
6304kHz 0450z	05/09 [416/00] 0453z Very strong		Danix	MON
0450z	10/10 [416/00]		Danix	MON
0450z	31/10 [416/00] Very strong signal, almost no noise		Fox	MON
6433kHz 1050z	09/10 [127/00] Weak		RNGB	SUN
1050z	23/10 [127/00] 1053z Very Weak QRN3 QSB3		Spectre	SUN
1050z	24/10 [127/00] Fair		RNGB	MON
1050z	30/10 [127/00] Weak/medium signal, strong noise		Fox	MON
6814kHz 0820z	15/09 [438/00] Good		RNGB	THU
0820z	29/09 [438/00] Good		RNGB	THU
0820z	06/10 [438/00] Good		RNGB	THU
0820z	20/10 [438/00] Good		RNGB	THU
0820z	27/10 [438/00]		GD	THU
7449kHz 1045z	27/09 [469/00] Strong signal, weak/moderate noise		Fox	TUE
1045z	11/10 [469/00]		RNGB, Fritz	TUE
1045z	19/10 [469/00]		RNGB	WED
1045z	25/10 [469/00] 1048z Weak QRN2 QSB2		Spectre	TUE
1045z	26/10 [469/00] Very strong signal, weak noise		Fox	WED
8800kHz 0930z	07/09 [270/00] Very strong signal, weak noise		Hans	WED
0930z	14/09 [270/00]		RNGB	WED
0930z	21/09 [270/00]		RNGB	WED
0930z	05/10 [270/00]		Fritz	WED
0930z	06/10 [270/00]		RNGB	THU
0930z	26/10 [270/00]		RNGB, Fox	WED
9371kHz 1730z	15/09 [416/00]		Fox	THU
1730z	29/09 [416/00]		RNGB	THU
1730z	20/10 [416/00]		RNGB	THU
1730z	27/10 [416/00] Strong QSB2, Out 1732z		Douglas	THU
9399kHz 0900z	07/09 [534/00] Very strong signal, weak noise		Hans	WED
0900z	21/09 [534/00]		RNGB	WED
0900z	19/10 [534/00]		RNGB	WED
0900z	24/10 [534/00] Fair		RNGB	MON
0900z	26/10 [534/00]		RNGB	WED
10221kHz 0710z	02/09 [633/00]		RNGB	FRI
0710z	09/09 [633/00] Weak		Hans	FRI
0710z	13/09 [633/00]		RNGB	TUE
0710z	20/09 [633/00]		RNGB	TUE
0710z	23/09 [633/00]		RNGB	FRI
0710z	04/10 [633/00]		RNGB	TUE
0710z	11/10 [633/00]		RNGB	TUE
0710z	24/10 [633/00]		RNGB	TUE
10690kHz 0830z	11/09 [649/00]		RNGB	MON
0830z	03/10 [649/00]		RNGB	MON
0830z	13/10 [649/00]		RNGB	THU
0830z	24/10 [649/00]		RNGB	MON
0830z	27/10[649/00]		GD	THU
10800kHz 0645z	22/09 [517/00] Good		RNGB	THU
0645z	27/09 [517/00] Weak		RNGB	TUE
0645z	11/10 [517/00]		RNGB	TUE
0645z	13/10 [517/00]		RNGB	THU
0645z	18/10 [517/00]		RNGB	TUE
14575kHz 0745z	18/10 [335/00]		Philip	TUE
0745z	20/10 [335/00]		RNGB	THU
0745z	27/10 [335/00]		Philip	TUE

15915kHz	0545z	02/09 [348/00]	RNGB	FRI
	1540z	12/09 [228/00] V. weak	RNGB	MON
	1155z	14/09 [718/00] 1158z QSA2 YL	Fanis	WED
	1540z	19/09 [228/00]	RNGB	MON
	1540z	25/09 [228/00]	RNGB	SUN
	1540z	26/09 [228/00] Good	RNGB	MON
	1155z	28/09 [718/00] Fair	RNGB	WED
	1540z	03/10 [228/00] Strong	RNGB	MON
	1540z	10/10 [228/00] Good	RNGB	MON
	0545z	12/10 [348/00] Weak	RNGB	WED
	1155z	13/10 [718/00]	RNGB	THU
	1540z	16/10 [228/00]	RNGB	SUN
	1155z	19/10 [718/00]	RNGB	WED
	1155z	26/10 [718/00] 1158z Fair QRB3 QSB2	Spectre	WED

E11a
Sept/Oct

4909kHz	1445z	17/09 [287/37 05714 00055 84346…..75152] Weak	RNGB, Danix	SAT
	0900z	29/10 [243/34 00135 35942 22004 72264 33143…..58289] Weak	RNGB, Danix	SAT
	1445z	29/10 [280/38 48129 76718 28343 69838 98504…..09058] Weak	Alex, Spectre	SAT

243/34 Attention
00135 35942 22004 72264 33143 20701 38589 13758 06072 31399
52353 89390 56647 12898 74721 38841 53651 71206 29409 26825
75391 40056 44237 03283 28923 21457 79346 07761 18148 39231
20447 91610 30127 58289
Out   *Courtesy Spectre*

5092kHz	0630z	02/09 [121/26 A 44666 59536 .... 21999] 0638z Weak/Fair QSB3	Hans	FRI
5463kHz	1855z	30/09 [262/30 89168 18693 12163…..]	RNGB	FRI
5737kHz	1240z	04/10 [348/30 43122…..]	Fritz	TUE
	1240z	09/10 [348/30 43122 73895…..] Very weak	RNGB	SUN
5855kHz	0600z	26/09 [262/30 89168 18693 12163 94078 94281…..63777] Fair, Out 0609z	RNGB	MON
6304kHz	0450z	19/09 [414/30 A 87240 06785 44214 29661 ... 17029]	Danix	MON
	0450z	03/10 [412/33...] 0459z Fair	Danix	MON
6433kHz	1050z	25/09 [126/32 05151 18912 83214 55547 44624…..80720] V. Strong	Danix	SUN
	1050z	16/10 [128/33 39266 83855 65230 72067 66256…..60210] Weak	RNGB	SUN
6814kHz	0820z	13/10 [439/33 83168 80840 98948 15286 12474…..21419]	RNGB	THU
7449kHz	1045z	21/09 [466?/34 04428 04276 81231 06128 47904…..77219] Fair	RNGB	WED
	1045z	05/10 [469/38 63692 59397 44083 34122 16678…..41377] Fair	RNGB	WED
8800kHz	0930z	19/10 [273/37 85870 57526 59183 86497 86784…..37340]	RNGB	WED
9371kHz	1730z	22/09 [414/30 87240 06785 44214 29661…..17029] Good, but heavy QRM	RNGB	THU
9399kHz	0900z	12/09 [533/30 32485 30956 08427 11418 01499….] V.weak	RNGB	MON
	0900z	14/09 [533/30 32485 etc] Good	RNGB	WED
	0900z	03/10 [535/37 61832 76220 10750 81658 88270..... 07751] 0910z Strong	Hans, RNGB	MON
	0900z	05/10 [535/37 61832…..] Repeat of Monday	Fritz	WED
10221kHz	0710z	27/09 [636/37 04935 42666 73428 35461 30257…..45865] Fair	RNGB	TUE
	0710z	18/10 [639/38 03281 40650 39516 36017 24052…. 36911] Good	RNGB, Douglas	TUE
10690kHz	0830z	20/10 [644/35 73460 57740 59390 55285 88317…..44749] Good, Out 0840z	RNGB	THU
10800kHz	0645z	13/09 [515/37 78333 17114 93931 40526 18657…..10239] Weak	RNGB	TUE
	0645z	15/09 [515/37 78333 etc]	RNGB	THU
	0645z	04/10 [511/30 05754 93602 32253 44455 36374…..38178] Fair, Out 0655z	RNGB	TUE
12153kHz	1600z	08/09 [641/20 A 44770 73711 .... 86121] 1607z Fair/Strong LQ-audio	Hans	THU
	1600z	12/09 [641/22 82665 59709 38125 68749 34532…..45820] Good	RNGB	MON
	1600z	19/09 [641/20 97565 43935 05877 92386 69446…..14740] Good	RNGB	MON
	1600z	29/09 [640/28 60089 21430 95383 94707 67564…..16805]	RNGB	THU
	1600z	03/10 [641/20 16463 94880 12757 68026 66047…..30056] Good	RNGB	MON
	1600z	06/10 [649/20 64780 08912 26150 94556 78870…..50915] Good	RNGB	THU
	1600z	10/10 [640/28 24043 88911 10557 30867 23859…..68886}	RNGB	MON
	1600z	13/10 [642/23 76028 31662 11403 32200 83636…..80483]	RNGB	THU
	1600z	17/10 [647/20 01483 12700 58325 54673 17470…..26034]	RNGB	MON
	1600z	20/10 [641/20 74246 21750 00634 04412 31995…..29668]	RNGB	THU
	1600z	24/10 [641/20 82316 43297 16519 74794 48778…..89765] Good	RNGB	MON
	1600z	27/10 [641/20 50255 91994 13356 87721 93420…..00855] Good	RNGB	THU
	1600z	31/10 [641/20 68555 66774 49406 24745 84019…..27630] Good	RNGB	MON

13375kHz 1400z	04/10 [988/10 63236 31890 16872 15315 05457…..40890] Good, Out 1405z	RNGB	TUE
1400z	08/10 [983/10 08930 40574 90445 05182 33341…..07310] Good	RNGB	SAT
1400z	11/10 [982/10 60627 14159 44291 14432 30351…..39915] Good	RNGB, Danix	TUE
1400z	18/10 [987/10 25314 33035 28638 63704 91620…..06710] Strong, Out 1405z	RNGB	TUE
1400z	22/10 [981/10 64318 90389 76816 15563 38792…..21357] Good	RNGB	SAT
1400z	25/10 [987/10 85454 22210 21816 74902 42328…..37678] Good	RNGB	TUE
1400z	29/10 [983/10 62002 81536 66865 36477 14068…..09485] Strong	RNGB	SAT
14575kHz 0745z	11/10 [335/33 62950 04454 48374 …..23215} Out 0754z	Philip	TUE
0745z	13/10 [335/33 62950 04454 48374 44304 70044…..23215]	RNGB	THU
15915kHz 1540z	05/09 [224/33 A 16812 07296 51504 ... 25355 20264 57336]1550z Strong	Danix	MON
1155z	05/10 [719/36 64130 36689 02826 75305 78428…..16031] Good	RNGB	WED
1540z	17/10 [227/36 76312 62277 20243 33146 72000…..21015] Good	RNGB	MON

E17z

September:

12930kHz 0810z	01/09[674]	H-FD	THU
0810z	08/09[674 819 5 85643] QRM dig sta	FN	THU
0810z	22/09[674 913 5 52255 56717 15561 54227 54221 913 5 00000]	RNGB, Spectre,AB	THU
14260kHz 0800z	01/09[674 819 5 85643 84278 52269 25875 65463]	GD, H-FD	THU
0800z	08/09[674 819 5 85643]	FN	THU
0800z	22/09[674 913 5 52255 56717 15561 54227 54221 913 5 00000]	RNGB, Spectre,AB	THU

October:

12930kHz0810z	20/10[674 801 5 13845]	FN	THU
14260kHz0801z	13/10[674 903 5 65092 04735 88465 94258 35402 903 5 0 0 0 0 0]0805z QSA3-4	JO	THU
0800z	20/10[674801 5 13845]	FN	THU
0800z	27/10[674 801 5 13845 82467 67261 29245 23215]	GD	THU

E22

A rare appearance, also heard by Ary an hour earlier.

15020kHz1305z	19/10[BN3]	GN	WED

E23 [XI] Frequencies and Times. All SSB [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

E25 [O]

Some new E2K members are "in the vicinity" and can also cover 9450 kHz *and* 6140 kHz with good results. These are excellent news since it is nice to have other experienced DXers available, and be more confident that we are not missing any E25 transmissions. The usual E25 oddities keep going on, like computer sounds and inconsistencies during message delivery (the pre-recorded YL voice can have a chaotic tempo which can lead even an "experienced" E25 listener to madness LOL!). Also, I am pretty sure that at least one transmission on 6140 kHz was in LSB instead of USB or AM, but this time the channel was relatively unoccupied from other users. Regarding message structure peculiarities, Agent 555 received some messages with a missing or erroneous "date" group.

September 2011

6140kHz 0854z	01/09 Carrier off-freq with WinXP startup sound (1m40s)	MG	FRI
6140kHz 0811z	03/09 Music slow playback (36s). Also at 0814z (1m9s), normal tempo at 0817z (38s)	MG	SAT
0838z	03/09[804 4878 3420 6990 2004 0899 2082 3025 9199 9601 3420 **4311**] clicks at 0834z, YL "80…" at 0836z, 1000 Hz tone, YL, digi QRM, EOM EO…EOT	MG	SAT
6140kHz 0841z	04/09[169 7048 8820 4570 5676 3359 0349 1975 0619 1234 7616 804 (as of 03/09)]0852z YL	MG	SUN
0956z	04/09[570 8853 1065 5190 5468 6450 9357 3064 0361 575 67]1001z 1000 Hz tone, YL EOT, over "Informatik Radio", "57…" repeated, Mx3	MG	SUN
1028z	04/09[675 79] YL, Mx3, Rx3, EOM EOT, then same TX again, QRN		
9450kHz 1243z	04/09[555 *4090* **8111** 9550 3204 7321 9547 8787 8164 2394 8778 9550]1248z ALM, YL sl. faster, AM, V. Strong	MG	SUN

6140kHz 0844z	05/09[162 75]0847z 1000Hz tone, YL, ended Mx3, Weak, QRN		MG	MON
1000z	05/09[570 (as of 04/09) 575 67]1007z YL, "57…" Mx3, EOM, Mx3 again, Rx3 again, EOM		MG	MON
9450kHz 1228z	05/09[555 (as of 04/09)]1236z ALM, YL, carrier up till 1356z, AM, V. Strong		MG	MON
6140kHz 0759z	06/09[360 **2501** 5331 1212 4626 1222 6263 4567 8897 5331 9105]0803z YL, EOM only, WinXP clicks before/after TX		MG	TUE
0844z	06/09[804 8284 6540 9852 8474 2584 0460 3525 9146 2881 3624 3055 5435 6540 **5341**]0853z YL irregular, calling 672x2 after EOM EOT		MG	TUE
1027z	06/09[672 5422 2004 5364 5613 8736 3112 5294 9910]1031z YL, EOM only		MG	TUE
1117z	06/09[887 4]1120z carrier up 1100z, YL, AM Strong, QSB2		MG	TUE
6140kHz 0800z	07/09[360 (as of 06/09)]0804z 1000Hz tone, YL, carrier till next TX, AM, Strong		MG	WED
0847z	07/09[804 (as of 06/09)]0852z YL, carrier till next TX, AM, Strong		MG	WED
1025z	07/09[672 (as of 06/07)]1030z 1000 Hz tone, YL, EOM only, carrier QRT at 1050z, AM Strong		MG	WED
6140kHz 0828z	08/09[701 4715 6001 7401 8958 4980 9259 9283 9283 6001]0833z YL, EOM only		MG	THU
1030z	08/09[675 80]1032z YL		MG	THU
6140kHz 0900z	10/09 Music (ALM and others), AM, QRT 1008z		MG	SAT
6140kHz 0825z	11/09[140 9303 5420 5149 4561 **7460** 5420]0832z Tone, YL, "EOM 140… EOT" AM		MG	SUN
0913z	11/09[950 **3111** 1190 2770 0995 4575 8581 3741 1153 1219 8740 2770]0916z YL, QRN		MG	SUN
0943z	11/09[350 2540 4260 **6160** 4350 8647 4260]0849z IO, YL, QRN		MG	SUN
6140kHz 0814z	12/09[185 2491 0530 5916 6336 4653 8967 1602 5520 0476 9423]0818z YL, 3 beeps		MG	MON
0825z	12/09[145 2]0829z YL, some problems, Mx3, Rx3, EOM		MG	MON
0912z	12/09[955 13]0915z YL, Mx3, Rx3, EOM		MG	MON
0923z	12/09[955 13]0924z YL repeat of the above, Mx3, Rx3, EOM EOT		MG	MON
0943z	12/09[355 16]0949z IO, YL, Mx3, Rx3, EOM, QRN		MG	MON
9450kHz 1227z	12/09[555 *2190* **9111** 9550 3204 7321 9547 8787 8164 2394 8778 9550] Carrier, ALM, YL slightly irregular tempo, EOM only (weak in Roma)		MG, AE	MON
6140kHz 0757z	13/09[360 3511 5550 62x8 xxxx]0759z YL, 0759z signal weakens and QRT during msg		MG	TUE
0812z	13/09[185 (as of 12/09)]0815z YL		MG	TUE
9450kHz 1231z	13/09[555 (as of 12/09)]1238z Carrier up at 1200z, ALM, YL a bit fast, EOM only, Digi QRM, carrier QRT at 1302z, AM, V. Strong		MG	TUE
	Carrier was very strong but modulation was very low and distorted by RTTY from 9448		Danix	TUE
	Fair		AE	TUE
6140kHz 0759z	14/09[360 **3511** 5950 6070 1358 9791 9755 1212 3386 5810 5950 2705]0803z YL, occasionally irregular tempo, EOM only		MG	WED
0814z	14/09[187 4]0816z YL		MG	WED
1000z	14/09[570 9835 9036 2410 6123 3057 3451 2127 0190 2141 8716 6696 3648 3185 5215]1005z YL EOM only, weaker than prev TX, QRN		MG	WED
6140kHz 1005z	15/09[570 (as of 14/09)]1010z YL, EOM only		MG	THU
1117z	15/09[880 4510 **3101** 2395 0312 7894 0113 9567 2241 5864 4510]1126z YL Mx3, pause, msg, irregular spaces, 1121z calls again, slow tempo, WinXP sounds, EOM only		MG	THU
6140kHz 0800z	16/09[887 5]0803z YL irregular, Mx3, Rx3, EOM		MG	FRI
1114z	16/09[364 26]1117z YL Mx3, Rx3, EOM		MG	FRI
6140kHz 0845z	18/09[806 6 169 8047 7630 9999 4184 3687 6913]0848z 0841z carrier off-freq, YL Mx3, then call as usual		MG	SUN
0859z	18/09[111 *8190* 3840 **3131** 2597 0233 8230 5351 8487 5450 3649 8605 3292 3840]0905z YL over European Music Radio, misses some numbers, pauses, EOM only		MG	SUN
0959z	18/09[570 0934 3078 6466 3464 7935 4725 5995 2388 4370 9364 1201 0924 8533 4127 x508]1005z YL, misses some numbers, weak, EOM only		MG	SUN
6140kHz 1000z	19/09[575 68 69]1004z YL i.p. Mx3, Rx3, EOM(?) Weak, QRN		MG	MON
9450kHz 1113z	19/09[... EOM EOT]1116z QSA2 QRM1 YL		Fanis	MON
1230z	19/09[555 *9102* **0211** 1580 2576 1052 7166 1783 3904 5492 9130 1580]1238z 1200z carrier i.p. ALM, YL, EOM only, carrier till 1244z, V. Strong		MG	MON
	19/09 fair signal		AE	MON
6140kHz 0849z	20/09[804 2782 0250 3810 5125 0481 9569 3988 5564 0250 **5301**]0853z YL, QRN3, weak		MG	TUE
0929z	20/09[135 50]0933z YL, Mx3, Rx3, EOM, QRN3, weak		MG	TUE
9450kHz 1114z	20/09[315 7185 5060 1160 3060 5060 4108 317 10]1118z YL 1117z 31… rptd, Mx3, V. Strong		MG	TUE
6140kHz 0830z	21/09[140 8332 6820 6679 5598 5485 6962 7417 5628 8401 6220]0833z tone 0823z, YL, EOM		MG	WED
0843z	21/09[169 9045 4611 6187 2781 5786 8228 9949 0320 6169 3749 804 (as of 20/09)]0854z YL		MG	WED
9450kHz 1119z	21/09 carrier i.p, QRT 1127z V. Strong		MG	WED
6140kHz 0829z	22/09[145 3]0832z 1000Hz tone i.p. at 0825z, EOM EOT YL, AM, Strong		MG	THU
0844z	22/09[162 76]0847z YL, EOM, EOT,AM, Strong		MG	THU
6140kHz 0844z	24/09[804 8784 7501 3388 9087 2557 8073 9613 5193 9921 8030 8087 9164 7501 **6341**]0849z		MG	SAT
1026z	24/09[675 81]1035z 1000Hz tone, YL, EOM EOT, WinXP sounds		MG	SAT
9450kHz 12xxz	26/09[555 *2602* **2111** 1580 2576 1052 7166 1783 3904 5492 9130 1580]12xx+13 ALM, pause, ALM, YL, EOM only		MG	MON

6140kHz 0942z	27/09 Very weak TX i.p., probably in LSB, probably YL	MG	TUE

October 2011

6140kHz 1115z	03/10[880 <u>0441</u> **4111** 5492 7333 5855 3331 5774 9417 5136 5467 <u>0441</u>]1120z YL EOM, carrier 1m30s, AM, Strong	MG	MON
9450kHz 1315z	03/10[785 1]1319z Carrier up 1312z, YL, EOM EOT, V. Strong	MG	MON
6140kHz 1032z	04/10[672 7425 2076 5502 7866 0835 9081 4216 0726 4035 1588 6265 2576 7699 4340 8076]1038z YL	MG	TUE
1117z	04/10[887 4]1120z YL, EOM EOT	MG	TUE
9450kHz 1314z	04/10[788 780 0949 **1031** <u>0410</u> 4654 9531 7373 5090 3901 5578 9539 4353 9737 <u>0410</u>]1324z carrier up 6min, YL, carrier QRT after 4mins	MG	TUE
	Very Strong in Athens	Fanis	TUE
	Strong in Rome	AE	TUE
6140kHz 0800z	05/10[116 6111 5383 6820 0621 9067 3955 0838 0928 2527 6726 0132]0804z YL, AM, Fair	MG	WED
0829z	05/10[140 4832 <u>5540</u> 2082 4439 9313 4304 0232 1954 2478 5588 5243 0780 7293 **9451** <u>5540</u>]0835z YL, AM, Fair	MG	WED
0931z	05/10[135 51]0934z YL, Mx3, AM, Weak	MG	WED
0959z	05/10[570 1931 2026 2918 9665 7004 3573 2714 0324 7470]1003z YL, AM, Strong	MG	WED
1031z	05/10 …75… only, YL	MG	WED
9450kHz 1315z	05/10[785 2 788 3]1319z YL, 7 rptd, Mx3, Rx3, EOM	MG, Fanis	WED
6140kHz 1000z	06/10 Rx3, EOM, Windows XP shutdown sound	MG	THU
6140kHz 0806z	07/10[116 118 7111 1031 1360 8491 5328 3567 9031 8382 5887 7521 4697]0812 YL off-freq, EOM, AM, Strong, QSB3, low audio	MG	FRI
6140kHz 0758z	08/10[360 116 118 (as of 07/10)]0807z YL 360 118 116 then 360 Mx2 116 118 then 118, AM	MG	SAT
0830z	08/10 Carrier off freq 0827z, music, AM, QRT 0849z	MG	SAT
6140kHz 0759z	09/10[360 **4511** <u>2510</u> 2111 4045 1380 0421 9851 5308 8720 <u>2510</u> 3102]0803z i.p, YL, WinXP sounds, AM, carrier left up till next TX, WinXP sounds	MG	SUN
0828z	09/10[140 5143 <u>2510</u> 6315 8915 9026 7366 4304 2073 8588 4415 6215 **9431** <u>2510</u>]0835z 140 once at 0821z, tone, YL, EOM only, AM, carrier QRT 0836z	MG	SUN
0845z	09/10[169 0124 8230 8308 0395 4865 5166 3372 1874 9341 4290 1493]0850z YL, AM, carrier QRT 0909z	MG	SUN
0944z	09/10[350 2531 <u>1510</u> **7180** 5805 6716 8308 7859 <u>1510</u>]0953z IO, YL, AM	MG	SUN
9450kHz 1317z	09/10[788 780 9295 **2060** <u>3510</u> 9142 0132 <u>3510</u>]1324z carrier up 1311z, YL	MG	SUN
6140kHz 0814z	10/10[185 3429 5520 1939 9730 3860 0687 3938 8616 1097]0819z tone, YL, EOM, AM, carrier	MG	MON
0828z	10/10[140 (as of 09/10)]0836z tone, YL, AM, carrier	MG	MON
0843z	10/10[169 (as of 09/10)]0850 tone, YL, AM, carrier finally QRT	MG	MON
0930z	10/10[133 5202 2646 6689 4741 9465 9421 8751 6871 0830 4498]0935z, YL, AM, carrier	MG	MON
0945z	10/10[355 17]0953z IO, YL, erratic WinXP sounds, Mx3, Rx3, EOM EOT, QRT 0956z, AM	MG	MON
9450kHz 1230z	10/10[555 2241 **2211** <u>3261</u> 5577 2213 6463 7938 7845 5970 9159 <u>3261</u>]1239z, ALM, YL, AM	MG	MON
1315z	10/10[785 3]1319z YL, AM digi QRM1 (usual for 9450 AM)	MG	MON
6140kHz 0800z	11/10[360 **5531** <u>6550</u> 6070 7563 0512 8024 8480 3396 5456 0363 1580 <u>6550</u> 4607]0805z YL, AM, Carrier till next TX	MG	TUE
0814z	11/10[187 77]0818z YL, Mx3, Rx3, EOM, AM, QRT 0820z	MG	TUE
0845z	11/10[804 5984 <u>0420</u> 1219 9981 7210 3438 2891 <u>0420</u> **8390** 162 5]0851z YL, AM, carrier,	MG	TUE
0930z	11/10[133 (as of 10/10)]0935z YL, EOM, AM, carrier QRT 0944z	MG	TUE
1046z	11/10[128 8764 **2961** <u>8560</u> 0785 3208 7238 6817 5670 8654 3107 8610 3061 4775 6188 5972 <u>8560</u>]1053z YL, Mx2, 972 instead of 5972, AM	MG	TUE
9450kHz 1230z	11/10[555 (as of 10/10)]1240z ALM, YL, EOM, ALM EOT WinXP shutdown sound and QRT, AM, V. Strong	MG	TUE
6140kHz 0800z	12/10[364 7]0804z YL, pauses of varying duration, AM, 0809z Win sounds, QRT 0812z	MG	WED
0830z	12/10[140 2437 <u>6210</u> 7567 1315 9325 1317 7728 **0590** <u>6210</u>]YL, tempo slow-down, pause, carrier left till next TX, Win sounds, AM	MG	WED
0845z	12/10[804 (as of 11/10) 162 5 (as of 11/10)]0853z YL, 1 rptd, Mx3, EOM	MG	WED
0930z	12/10[135 52 53 54]0937z YL,128 twice at 0939z, QRT, AM	MG	WED
1044z	12/10[128 (as of 11/10)]1051z YL, tempo slows down, WinXP sounds, EOM, AM	MG	WED
6140kHz 1114z	13/10 YL chaotic 78, 7, 88, 77, EOM, R, M, Win sounds etc 1119z vy brief sounds, QRT 1127z	MG	THU
6140kHz 0845z	14/10 0904 80 284503 EOM 9 0 etc YL, Win sounds, chaotic, 0848z slower tempo, QRT 0853z	MG	FRI
6140kHz 0845z	15/10 random numbers, YL, chaotic, AM	MG	SAT
0849z	15/10[804 1085 <u>7830</u> 3381 9606 9113 8624 1258 6589 0635 9691 5795 <u>7830</u> **0431**]0855z YL, initially random numbers, EOM 804, AM	MG	SAT
1042z	15/10[128 1064 **3961** <u>5480</u> 6985 5388 4990 5867 2198 8616 1123 3938 9829 2196 6120 5871 <u>5480</u>]1049z YL EOM EOT 31	MG	SAT
9450kHz 1200z	15/10 carrier, WinXP shutdown sound then QRT at 1310z, AM, V. Strong	MG	SAT
6140kHz 0845z	16/10[806 7] WinXP sounds, YL, Mx2	MG	SUN
0900z	16/10[111 *6101* <u>8310</u> **4111** 7181 4367 6014 9299 1195 0629 1727 <u>8310</u>]0904z YL	MG	SUN
1042z	16/10[128 (as of 15/10)]1047z YL, EOM only	MG	SUN
6140kHz 0901z	17/10[200 13]0905z YL, Mx2, AM	MG	MON

6140kHz 1028z	19/10[672 8427 2024 0644 7846 3134 2979 3391 675 83]1034z YL, 67 rptd, Mx3, EOM only	MG	WED
9450kHz 1245z	19/10[440 *9101* **3001** 5410 3480 8229 5967 1165 3006 7340 5410]1251z YL, pauses, EOM,		
	WinXP shutdown sound, AM, Very Strong, slight digi QRM	MG	WED
9450kHz 1245z	20/10[440 (as of 19/10)]1250z carrier 1235z, YL, pauses, missing numbers,		
	no EOM EOT, carrier QRT 1301z	MG	THU
1244z	20/10 no EOM EOT, YL, Good	AE	THU
1245z	20/10[440 ... recorded]1250z QSA2 YL	Fanis	THU
1315z	20/10[785 7 788 4 5 6]1321z carrier up 1302z, YL, WinXP shutdown sound	MG	THU
1315z	20/10[785 ... recorded]1320z QSA3 YL about 5db stronger, need to check again for propagation	Fanis	THU
6140kHz 0915z	23/10[169 NO MSG]0918z YL, WinXP sounds, pauses, then calling 950	MG	SUN
0918z	23/10[950 **4121** *3201* 2260 9060 5124 1924 8462 3377 0452 9780 5676 2260]0923z YL	MG	SUN
1031z	23/10[675 84]1034z YL, Mx3, EOM	MG	SUN
9450kHz 1229z	23/10[555 9753 **3211** 3121 2583 7838 3847 5323 1676 5494 6323 3121]1237z carrier 1207z,		
	ALM, YL, EOM, carrier up till next TX, WinXP sounds	MG	SUN
1228z	23/10 Very Strong signal in Israel	AIK	SUN
1315z	23/10[780 2605 **2021** 4431 5814 3838 7337 8099 9938 3759 7696 6537 4431]1319z YL	MG	SUN
1313z	23/10 Very Strong	AIK	SUN
6140kHz 0914z	24/10[955 14]0917z YL, WinXP sounds, AM, slight digi QRM	MG	MON
9450kHz 1229z	24/10[555 (as of 23/10)]1237z carrier 1224z,		
	ALM, YL, EOM only, carrier QRT 1239z after WinXP sounds, AM	MG, AE	MON
1314z	24/10[780 (as of 23/10)]1319z carrier up 1312z, YL, AM	MG, AE	MON
6140kHz 0818z	27/10[014 1053 5120 3457 4294 4516 8074 1980 5120 **1290**]0822z YL, EOM only	MG	THU
0841z	27/10[162 78]0845z YL, Mx3, Rx3, EOM	MG	THU
6140kHz 0927z	28/10[135 56]0932z YL, Mx3, WinXP logoff sound, AM	MG	FRI
9450kHz 1317z	31/10[785 10 788 4 5 6 8 9]1324z carrier 1258z, YL, 7 rptd, EOM EOT	MG	MON

Many thanks to everybody shared their loggings and comments. PS: male anon, excellent job! I am looking forward to a further cooperation!

G06[1A]

PoSW's logs to start:

The second + fourth Thursdays in the month 1830 UTC schedule continues together with a sending at 1930 UTC on the following Friday, always with 15 x 5F groups, and the first + second Mondays in the month 1700 + 1800 UTC schedule is still running.

Thursday 1830 UTC Schedule:-   8-Sept-11:- 5,934 kHz, seasonal change of frequency from 6,887 kHz used in the summer months to a spot inside the 49 metre broadcast band with the inevitable interference. Appeared to be a faulty call-up, long periods of silence, heard "579" after 1832z, went into 5Fs just before 1834z. 5F message proceeded as normal, ended after 1836z with "249 249 15 15 00000".

22-Sept-11:- 5,934 kHz, call "579", DK/GC "249 249 15 15", side band splash from BC station not too severe. Started approx. 35 seconds before the half hour.

13-Oct-11:- 5,934 kHz, started 50 second early, call "579", DK/GC "362 362 15 15", with the usual BC QRM.

Friday 1930 UTC Schedule:-
9-Sept-11:- 5,442 kHz, the expected seasonal change from 5,943 kHz of the past few months
which is too close for comfort to a strong signal from the Voice of the Islamic Republic of Iran. Reception on 5,442 much better, strong signal, best copy of any G06 for a long time! Call "947", DK/GC "732 732 15 15"

23-Sept-11:- 5,442 kHz, "947" and "732 732 15 15" again. Started approx. 30 seconds before the half hour.

14-Oct-11:- 5,442 kHz, call "947", DK/GC "632 632 15 15".

28-Oct-11:- 5,442 kHz, a late start this evening, just a plain carrier until around 1935 UTC, then call "947" and DK/GC "632 632 15 15", as on the 14th. Good signal with no interference.

First + Second Mondays in the Month 1700 +1800 UTC Schedule:-
3-Oct-11:- 1700 UTC, 4,457 kHz, "439 439 439 00000". Stopped after 1703z so may have started early.
1800 UTC, 4,864 kHz, second sending, started 20 seconds before the hour, S9 signal.

10-Oct-11:- 1700 UTC, 4,457 kHz, "439 439 439 00000". Was still on at 1708z calling numbers 1 to 9 in German.
1800 UTC, 4,864 kHz, second sending.

Others' logs:

September:

4457kHz1700z	05/09[439:0]	H-FD	MON
1700z	12/09 [439 00000(s)] Strong	Hans	MON
4864kHz1800z	05/09[439:0]	H-FD	MON
1800z	12/09[439 439 439 00000] 1803z QSA1 QRM2 YL	Fanis, Hans	MON
	Counting 1700z 123456789 per AG		

5442kHz1930z	09/09[947 732 15 13242 … 17456 732 15 00000(s)]1937z Strong	(7m19s)	Hans, Spectre, FR	FRI


```
947 732 15
13243 24354 35465 46576 57687
68798 79809 08685 79684 57531
68472 48631 12921 92378 17456
00000          Courtesy FR
```

1930z	23/09[947 732 15 13243 … 17456 732 15 00000(s)] – *full msg as above -1937z Strong	(6m45s)	FR, HJH, PLdn	FRI

* Interesting view on this log from Erik:

If you look at the numbers they are clearly predictable in the beginning and then start to become randomized at around 68798/79809/08685.

```
13243 - 24354 = 11111
24354 - 35465 = 11111
35465 - 46576 = 11111
46576 - 57687 = 11111
57687 - 68798 = 11111
68798 - 79809 = 11011
79809 - 08685 = 71124
08685 - 79684 = 70999
79684 - 57531 = 22153
57531 - 68472 = 10941
68472 - 48631 = 19841
48631 - 10921 = 37710
10921 - 02378 = 8543
02378 - 17456 = 15078
```

It's almost like the numbers that were transmitted were from a Linear RNG that was cranking up but wasn't seeded sufficiently until 68798/79809(start)/08685.

5934kHz1930z	08/09[579 ....] BCQRM		HJH	THU
1830z	22/09[579 249 15 12292 ... 47927 249 15 00000] Audio fair, BCQRM		HJH, FR	THU

```
579 249 15
12490 92832 38749 38754 67546 91221 98230 43783 48751 18235
71485 42543 69146 78431 47925
00000          Coutesy Fox  [Dif characters fm HJH noted]
```

6778kHz 0800z	12/09 [215 00000(s)] Strong		Hans	MON

October 2011:

4457kHz1700z	03/10[439 439 439 00000]		FN, Spectre	MON
4864kHz1800z	03/10[439 00000] Strong signal, weak/moderate noise		FR, FN, HJH , Spectre	MON
5442kHz1930z	14/10[947 632 15 13568 … 37598 635 15 00000(s)] 1936z Strong	(6m21s)	HJH, FR, PLdn	FRI

```
947 632 15
13568 93472 41089 57364 28493
17465 08540 27856 14738 27594
25487 93710 95732 46187 37598
00000          Courtesy FR
```

1935z	28/10[947 632 15 13568 … 37598 632 15 00000(s)] ends 1942z Strong	(7m01s)	PLdn	FRI
5864kHz1200z	12/10[439 439 439 00000]		FN	WED
5934kHz1830z	13/10[579 362 15 12453 … 72627 362 15 00000(s)]	(6m39s)	PLdn	THU
1830z	27/10[579 362 15 12453 … 72627 362 15 00000(s)]	(6m39s)	PLdn, FR	THU
6774kHz0800z	03/10[215 215 215 222222]		FN	MON

G07 (IB)

16271kHz0843z	31/10 i/p 000 000 at 0850z Strong		Danix	MON

G11[III]
September/October log:

5815kHz1325z	02/09 [296/31 A 53073 95804 .... 24609] 1334z Weak		Hans	FRI
1755z	06/09 [270/00] Very strong signal		Fox	TUE
1755z	11/09 [270/00] Ende 1758z		PLondon	SUN
1755z	13/09 [270/00]		Gary, Fanis	TUE
1755z	20/09 [270/37 00876 80464 36929 85848 46743…..56090] Ende 1806z		RNGB	TUE
1755z	25/09 [270/37 00876 etc} repeat of Tuesday		RNGB, PLondon	SUN
1755z	27/09 [270/00] Ende 1758z Strong	(3m22s)	PLondon, RNGB	TUE
1325z	01/10 [299/00] 1328z Weak QRN3 QSB2		Spectre	SAT
1755z	04/10 [270/00] Good		RNGB	TUE

1755z	11/10 [276/37 82281 14573 33696 93989 36317…..04517] Strong			RNGB, Danix	TUE
1755z	16/10 [276/37 82281…..] repeat of Tuesday			RNGB	SUN
1755z	18/10 [270/00] Good			RNGB	TUE
1325z	21/10 [299/35 55305 54463 27437 98096 39082…..71495] V. Strong			Fox	FRI
1325z	22/10 [299/95 Achtung 55325 ... 71495 Ende] 1335z Weak QRN3 QSB2			Spectre	SAT
1755z	23/10 [270/00]			RNGB	SUN
1324z	28/10 [299/00] Weak, Ende 1327z			Douglas	FRI
1755z	30/10 [270/00] Very strong signal, moderate noise			Fox	SUN

6433kHz	2000z	09/09 [262/00] Very strong signal, weak noise			Hans	FRI
	2000z	11/09 [262/00] Ende 2003z			PLondon	SUN
	2000z	16/09 [262/00] Strong			RNGB	FRI
	2000z	18/09 [262/00] Ende 2003z Very strong	(3m19s)	PLondon, RNGB	SUN
	2000z	23/09 [262/00] Very strong signal, weak noise			Fox	FRI
	2000z	25/09 [262/00] Strong			RNGB, PLondon	SUN
	2000z	02/10 [262/00]			RNGB	SUN
	2000z	07/10 [262/00] 2003z Strong QRN3 QSB2			Spectre	FRI
	2000z	09/10 [262/00] Good			RNGB	SUN
	2000z	16/10 [263/31 37954 46136 55788 73216 06706…..71020] Good			RNGB	SUN
	2000z	21/10 [262/00] 2003z Fair QRN2 QSB2			Spectre	FRI
	2000z	23/10 [262/00] 2003z Fair QRN2 QSB2			Spectre	SUN
	2000z	26/10 [262/00] 2003z Fair QRM3 QSB3			Spectre	SAT
	2000z	28/10 [262/00] Strong			RNGB	FRI

7317kHz	0940z	12/09 [275/00]			RNGB	MON
	0940z	26/09 [272/30 32993 07848 02772 08857 83774…..05786] Good			RNGB	MON
	0940z	03/10 [278/30 26970 45644 74422 59845 15985..... 61773] 0949z Strong			Hans, RNGB	MON
	0940z	24/10 [275/00] 0943z Fair QRN2 QSB2			Spectre	MON
	0940z	31/10 [275/00] Very strong signal, weak noise			Fox	MON

Starting with RNGB's S06 report for both months and then onto others' logs.

<u>S06</u>
RNGB's logs
S06 September log:

Thurs	1st	19.05	5127	'349' 00000
Mon	12th	19.00	5784	'349' 00000
		20.15	11460	'207' 00000
		21.15	9175	'207' 00000
Weds	14th	18.00	5735	'471' 00000
Sat	17th	16.05	7612	'134' 00000
		19.00	6791	'703' 00000
		19.00	4787	'837' 00000
		20.00	3819	'837' 00000
		20.00	5848	'703' 00000
Mon	19th	19.00	5784	'349' 00000
Weds	21st	18.05	5070	'471' 00000
Thurs	22nd	19.05	5127	'349' 00000
Sat	24th	19.30	5787	'366' 00000

S06s September log:

Monday

5th/12th	1200/1210	9145/11460	'831' 465 7 73574 74501 45510 48743 53224 26813 20575
19th/26th			'831' 924 5 29245 28842 82264 14255 81545
5th/12th	1600/1610	8040/6830	'176' 204 5 48554 18844 86169 35410 05785
19th/26th			'176' 832 5 68867 20333 86726 48797 18672

Tuesday

6th/13th	0600/0610	14080/12355	'438' 265 7 80745 15454 85833 51285 50841 17358 45175
20th/27th			'438' 905 6 81545 74167 85202 85141 64526 83957
6th/13th	0700/0715	5760/6930	'374' 950 6 56723 59783 93251 57852 13855 77859
20th/27th			'374' 952 6 25645 11325 55240 24444 52757 45392
6th/13th	0800/0810	11635/10420	'352' 970 6 46774 29826 73608 73546 43456 02554
20th/27th			'352' 960 7 07113 91575 16408 85474 59834 26635 93815
6th/13th	1230/1240	? /5805	'278' 901 5 57033 55491 25055 44401 29565
20th/27th			No reports
6th/13th	1500/1510	6464/7242	'537' 904 6 72751 01858 25594 92431 98878 04031
20th/27th			'537' 289 6 78235 46730 19277 56563 23897 23016

Wednesday

7th/14th	0530/0540	10835/12170	'153' 847 6 54765 85592 74554 21829 51447 15594
21st/28th			'153' 928 6 81725 34528 10989 67351 22905 45620
7th/14th	0730/0740	7335/11830	'745' 983 6 54965 45055 51122 98224 88445 48490
21st/28th			'745' 912 6 45594 32342 74369 48558 48453 29715
7th/14th	0820/0830	7605/9255	'471' 903 5 89556 68307 43575 04253 45505
21st/28th			'471' 253 6 54604 35455 82459 10304 50285 55599
7th/14th	0840/0850	9480/11040	'328' 514 6 91052 72456 29442 27955 65848 35595
21st/28th			'328' 579 6 98992 39815 14610 94045 98342 16532
7th/14th	1000/1010	13365/14505	'729' 841 5 12347 94665 46221 45061 44544
21st/28th			'729' 584 6 84482 45063 54481 46259 72094 43533

Wednesday continued

7th/14th	1200/1210	7120/6415	'481'
21st/28th			'481' 269 5 46647 75877 08755 56428 24013
7th/14th	1230/1240	7620/8105	'967' 801 5 61277 54458 32752 57068 62057
21st/28th			'967' No reports
7th/14th	1900/1910	9220/8270	'371' 986 5 73574 74501 45510 48743 53224
21st/28th			'371' 968 5 98057 73151 42136 35257 73368

Thursday

1st/8th	0800/0810 E17z	14260/12930	'674' 819 5 85643 84278 52269 25875 65463
15th/22nd			'674' 913 5 52255 56717 15561 54227 54221
1st/8th	0900/0910	12952/13565	'167' 843 5 48516 59417 63855 88900 34461
15th/22nd			'167' 932 5 39945 10944 93164 05339 26532
1st/8th	1200/1210	12560/13065	'425' 873 6 88060 46607 75538 57050 55192 17746
15th/22nd			'425' 816 7 27477 75439 95208 42642 68545 22838 65855
1st/8th	1230/1240	8650/7385	'314' 562 7 93689 59750 51655 41668 30945 61685 33856
15th/22nd			'314' No reports
1st/8th	1400/1410	5320/4845	'624' No reports

Friday

2nd/9th	0600/0610	6340/5470	'934' 251 6 12334 76225 24574 45003 50658 27515
16th/23rd			'934' 285 6 54146 66941 40521 88695 78126 95679
2nd/9th	0600/0610	7795/8695	'196' 427 5 33692 25785 66234 92577 30105
16th/23rd			'196' 240 5 29245 28842 82264 14255 81545
2nd/9th	0930/0940	12140/13515	'516' 982 7 28963 04621 55455 42458 94645 95905 40545
16th/23rd			'516' 427 6 71625 34677 81902 98561 56782 88019

Saturday

3rd	1200/1210	10350/8520	'254' 870 6 62242 58195 44525 15355 47845 28125

This months repeated group sendings in **BOLD**

Weds	**14/09/2011**	19.00	9220	'371' 986	5 **73574 74501 45510 48743 53224 26813 20575**
Monday	**12/09/2011**	12.10	11460	'831' 465	7 **73574 74501 45510 48743 53224 26813 20575**
Friday	**16/09/2011**	06.10	8695	'196' 240	5 **29245 28842 82264 14255 81545**
Monday	**19/09/2011**	12.00	9145	'831' 924	5 **29245 28842 82264 14255 81545**
Friday	07/05/2010	06.00	8340	'934' 260	5 29245 28842 82264 14255 81545
Weds	01/12/2010	12.00	7030	'481' 972	5 29245 28842 82264 14255 81545
Weds	01/09/2010	05.30	10835	'153' 487	6 29245 28842 82264 14255 81545 74167
Thursday	23/09/2010	12.00	12560	'425' 901	6 29245 28842 82264 14255 81545 74167
Tuesday	14/06/2011	15.10	7744	'537' 912	6 29245 28842 82264 14255 81545 74167
Monday	**19/09/2011**	16.00	8040	'176' 832	5 **68867 20333 86726 48797 18672**
Tuesday	21/12/2010	08.00	5810	'418' 962	5 68867 20333 86726 48797 18672
Tuesday	**20/09/2011**	06.00	14080	'438' 905	6 **81545 74167 85202 85141 64526 83957**
Friday	26/08/2011	06.00	7845	'196' 423	5 81545 74167 85202 85141 64525
Friday	**16/09/2011**	06.00	6340	'934' 285	6 **54146 66941 40521 88695 78126 95679**
Thursday	01/04/2010 E17z	08.00	14260	'674' 208	5 54146 66941 40521 38695 78126
Thursday	04/03/2010	09.10	12310	'167' 809	5 54146 66941 40521 88695 78126
Thursday	18/08/2011 E17z	08.00	16780	'674' 918	5 54146 66941 40521 88695 78126
Tuesday	21/12/2010	08.10	10265	'352' 489	6 54146 66941 40521 88695 78126 65351
Tuesday	12/07/2011	12.30	7650	'278' 459	6 54146 66941 40521 88695 78126 65351
Tuesday	03/08/2010	08.00	14373	'352' 840	6 54156 66941 40521 88695 78126 65351 20575

S06 October log:

Saturday	01/10	19.30	5787	'366' 00000
Tuesday	04/10	17.59	5891	'286' 00000
Weds	05/10	20.00	5413	'134' 562 38 87812 81944 00901 40626 26945.....07782
Saturday	08/10	16.05	7612	'134' 562 38 87812 81944 00901 40626 26945.....07782
Monday	10/10	19.00	5784	'349' 00000
		20.15	9245	'621' 485 92 86476 36138 16190 17538 64481.....03431
		21.15	7760	'621' 485 92 86476 36138 16190 17538 64481.....03431
Tuesday	11/10	18.01	5890	'286' 00000
Weds	12/10	20.00	5406	'134' 562 38 87812 81944 00901 40626 26945.....07782
Saturday	15/10	16.05	7612	'134' 562 38 87812 81944 00901 40626 26945.....07782
		19.35	4618	'366' 00000
		20.30	6791	'703' 00000
Monday	17/10	19.00	5784	'349' 00000
Thursday	20/10	19.05	5127	'349' 00000
Saturday	22/10	16.05	7612	'134' 562 38 87812 81944 00901 40626 26945.....07782
		19.30	5787	'366' 00000
Monday	24/10	19.05	5127	'349' 00000
Thursday	27/10	19.00	5784	'349' 00000
Monday	31/10	09.30	18654	'?' '?' 62 last group 62257

Note: The long running Saturday 1600 broadcast only seems to send messages during October, with a repeat on Wednesday evening. The rest of the year it sends nulls.

S06c October:
Saturday 22nd   14.38   8178   [i.p.: 11019 rptd] no ending, out at 1454z, Fritz

S06s continues sending 2 messages a month, except for the first Saturday of the month, which sends same message for 2 months
(albeit just once a month!). The beginning of October found **ID 425** sending nulls followed by the fourth week of October with **IDs 352 and 328**
ID 418 has not been heard recently so may have changed time/day/frequency? (Used to be Tuesday at 0800/10)

S06s October log:

Monday

3rd/10th	1200/1210	9145/11460	'831' 920 5 20365 55885 57489 57724 90465
17th/24th			'831' 972 5 44839 29831 40965 64122 95721
3rd/10th	1600/1610	8040/6830	'176' 980 5 55463 58078 65470 15204 25743
17th/24th			'176' 924 5 74832 21109 20976 45362 89021

Tuesday

4th/111th	0600/0610	14080/12355	'438' 520 6 84575 62809 55616 45062 44544 55155
18th/25th			'438' 295 6 14255 81545 74167 85202 85141 64526
4th/11th	0700/0715	5760/6930	'374' 968 5 43746 09623 24815 47563 93588
18th/25th			'374' 896 5 67534 78964 23165 78455 00322
4th/11th	0800/0810	11635/10420	'352' 490 6 56657 74693 37481 96425 44534 53978
18th			'352' 801 6 77453 90775 34221 66441 90003 56423
25th	**0800/10/20/30/40/50**	**9345/10182/10620/11165/11825/12245**	**'352' 00000**
4th/11th	1230/1240	? /5805	'278'
18th/25th			'278' 904 5 04339 58909 72533 35615 22700
4th/11th	1500/1510	6464/7242	'537' 201 6 66121 58982 86558 53218 70934 55980
18th/25th			'537' 208 6 33692 25785 55253 92577 30105 51622

Wednesday

5th/12th	0530/0540	10835/12170	'153' 809 6 53550 55278 60492 59755 44729 35776
19th/26th			'153' 907 6 94515 22854 79505 53529 75225 54951
5th/12th	0730/0740	7335/11830	'745' Not heard
19th/26th			'745' 910 6 34682 17455 55122 40995 15447 98065
5th/12th	0820/0830	7605/9255	'471' 803 5 99355 51813 80542 71151 95777
19th/26th			'471' 820 5 40995 14557 32575 51285 81948
5th/12th	0840/0850	9480/11040	'328'
19th			'328' 507 6 76294 36536 55994 54595 29665 45518
26th	**0840/50/00/10/20/30**	**9635/10576/11440/11875/12165/12647**	**'328' 00000**
5th/12th	1000/1010	13365/14505	'729' 805 6 45195 18587 57460 54667 56689 57973
19th/26th			'729' 486 5 20163 29076 54605 45562 52562
5th/12th	1200/1210	7120/6415	'481' 920 5 77145 …..
19th/26th			'481' 270 5 99228 77544 04816 56447 51269
5th/12th	1230/1240	7620/8105	'967' 802 5 49471 73665 26471 58270 68187?
19th/26th			'967'
5th/12th	1900/1910	9220/8270	'371' 904 5 75151 25504 53328 61265 63676
19th/26th			'371' 590 6 99135 48950 41100 14441 42246 57855

Thursday

6th/13th	0800/0810 E17z	14260/12930	'674' 903 5 65092 04735 88465 94258 35402
20th/27th			'674' 801 5 13845 82467 67261 29245 23255
6th/13th	0900/0910	12952/13565	'167' 930 5 84170 36565 58899 95989 28113
20th/27th			'167' 803 5 73849 39201 78232 90177 23921
6th/13th	**1200/10/20/30/40/50**	**10856/11545/12415/12910/13517/14212**	**'425' 00000**
6th/13th	1230/1240	8650/7385	'314'
20th/27th			'314' 206 5 67453 27837 99821 09276 45621
6th/13th	1400/1410	5320/4845	'624'
20th/27th			'624' 803 5 17263 46758 91027 91918 56740?

Friday

7th/14th	0600/0610	6340/5470	'934' 876 5 23521 47660 92883 69901 35826
21st/28th			'934'
7th/14th	0600/0610	7795/8695	'196' 807 5 46570 98469 51185 60728 95764
21st/28th			'196' 403 5 78239 19276 45663 29090 12390
7th/14th	0930/0940	12140/13515	'516' 438 7 43443 08618 65242 25554 78969 90517 06538
21st/28th			'516' 480 7 91827 35463 09182 67893 45673 20091 67110

Saturday

1st	1200/1210	10350/8520	'254' 870 6 62242 58195 44525 15355 47845 28125

This months repeated group sendings in **BOLD**

Tuesday	**18/10/2011**	**15.00**	**6464**	**'537' 208 6 33692 25785 55253 92577 30105 51622**
Friday	02/09/2011	06.00	7795	'196' 427 5 33692 25785 66234 92577 30105
Weds	**19/10/2011**	**07.30**	**7335**	**'745' 910 6 34682 17455 55122 40995 15447 98065**
Tuesday	21/06/2011	08.00	7245	'418' 269 5 34682 17455 55122 40995 14557
Thursday	27/01/2011	14.00	5320	'624' 870 5 34682 17455 55122 40995 14557
Tuesday	14/12/2010	12.40	6770	'278' 435 6 34682 17455 55122 40995 14557 98045
Weds	15/12/2010	12.00	7030	'481' 257 6 34682 17455 55122 40995 14557 98045
Tuesday	04/01/2011	15.00	5070	'537' 496 8 34682 17455 55122 40995 14557 98045 95672 71514
Weds	**19/10/2011**	**10.00**	**13365**	**'729' 486 5 20163 29076 54605 45562 52562**
Tuesday	04/01/2011	12.30	5810	'278' 439 5 20163 29076 56705 45562 52562
Tuesday	21/06/2011	08.00	14373	'352' 871 6 20163 29076 56705 45562 52562 63207

Tuesday	07/12/2010	15.00	5070	'537' 946 8 20163 29076 56705 45562 52562 63207 21065 63450
Tuesday	16/08/2011	08.00	14373	'352' 470 6 20163 29076 57605 44562 52563 12076
Thursday	24/03/2011	14.00	5320	'624' 978 5 20163 29076 57605 45532 6263098065
Weds	**26/10/2011**	**12.00**	**7120**	**'481' 270 5 99228 77544 04816 56447 51269**
Thursday	04/08/2011	09.00	12952	'167' 950 8 99228 77544 04816 56447 51269 03176 58842 55499
Wed	15/12/2011	12.40	6420	'967' 283 5 99228 77544 04816 56557 -5823?
Friday	21/01/2011	06.00	5460	'934' 867 5 99228 77544 04816 56557 51269
Thursday	24/03/2011	09.00	12952	'167' 948 5 99228 77544 04816 56557 51269
Weds	13/04/2011	19.00	9220	'371' 980 5 99228 77544 04816 56557 51269
Tuesday	01/02/2011	12.30	5810	'278' 415 6 99228 77544 04816 56557 51269 03176
Tuesday	27/04/2010	08.00	11635	'352' 867 9 99228 77544 04816 56557 51269 03176 58842 55499 72223

Others' logs:

S06 [1A]
September log:

5070kHz1805z	21/09[471 00000]OM, Fair	AE	WED
5127kHz1905z	08/09[349 ... 0 0 0] 1908z QSA2 QRM4 OM	Fanis	THU
1900z	15/09[349 00000] Gd audio	HJH	THU
1900z	22/09[349 00000]	HJH, FR	THU
5735kHz1800z	07/09[471 ... 0 0 0] 1804z QSA2 QRM2 OM	Fanis	WED
1800z	28/09 [471 00000] 1804z Strong QRN2 QSB2	Spectre	WED
5783kHz1900z	05/09[349 0 0 0] 1904z QSA3 QRM2 OM	Fanis	MON
1900z	12/09[349 00000] Good audio	HJH	MON
7612kHz1605z	03/09[134:0]	H-FD	SAT
1605z	10/09[134 00000] Strong signal, strong noise, some bleeding	FR, Danix, Spectre	SAT
1605z	24/09[134 00000] Fair audio, QRM in b/g	HJH	SAT

S06 October 2011:

5127kHz1905z	06/10[349 00000] 1908z Fair QRN3 QSB2	Spectre	THU
1905z	20/10[349 00000] Good Audio	HJH, FR	THU
1905z	24/10[349 00000] 1908z Fair QRN3 QSB2	Spectre	MON
5132kHz1905z	03/10[349 349 349 000000]	FN	MON
5406kHz2000z	12/10[134 562 38 5F message ending 562 38 00000]	PPA	WED
5735kHz1800z	05/10[471 471 471 00000]	FN, Spectre	WED
5782kHz1930z	01/10[366 00000] 1934z Weak QRN3 QSB2	Spectre	SAT
5784kHz1900z	27/10 [349 349 349 00000 349...] STRONG 00000 1903z	AIK, SpectreTHU	
6783kHz1820z	12/10[632 00000] Very strong	Mndbs	WED
7612kHz1605z	08/10[134 562 38 85852 ... 562 38 00000] Strong	Spectre, FR	SAT

```
134 562 38
85852 81944 00901 40626 26945
76256 08010 94021 70144 30556
49932 50311 98742 32157 72402
76483 29667 00639 01646 75785
18893 55025 44812 02402 71963
01163 48137 48495 30422 46028
54109 79315 94600 80789 66891
07427 50586 07782 562 38 00000
                Courtesy FR
```

7612kHz1605z	15/10[134 LG 56782 562 562 38 38]weak QRM3, QRN3 00000 1615z	JDA, FN	SAT

```
134 562 38
87812 81944 00901 40626 26945
79256 08010 94021 70144 30556
49932 50311 98742 32157 72402
76483 29667 00639 01646 75785
18893 55025 44812 02402 71963
01163 48137 48495 30422 46028
54109 79315 94600 80789 66891
07427 50586 07782 00000
(Repeat from 08/10)
                Courtesy FR
```

1605z	22/10 [134 562 38 87812 ... 07782 562 38 00000(f)] 1616z Fair QRN2 QSB2	Spectre, FR	SAT
7760kHz2115z	10/10[621 485 92 86476 ... 03431 485 92 00000(f)] 2134z Weak QRN2 QSB4	Spectre	MON

```
621 485 92
86476 36138 16190 17538 64481 02597 76252 50225 23045 65573
84429 64923 32230 25307 48615 24797 74214 13610 10108 13128
01264 63004 64057 84731 79393 61294 86315 30116 85267 89367
60901 71541 52323 24649 16192 50962 71154 33714 81999 97883
55679 70177 26455 26084 63521 72533 81924 64751 65261 49077
53360 13256 75464 52265 67392 20894 12590 63336 18497 01083
05380 84738 89070 73736 05316 03491 91237 26913 50907 10240
74735 90972 16426 93491 60934 40423 42981 56314 90009 07772
50736 75912 03524 96410 84051 22198 18956 30410 31475 14404
25317 03431
485 92 00000                    Courtesy Spectre
```
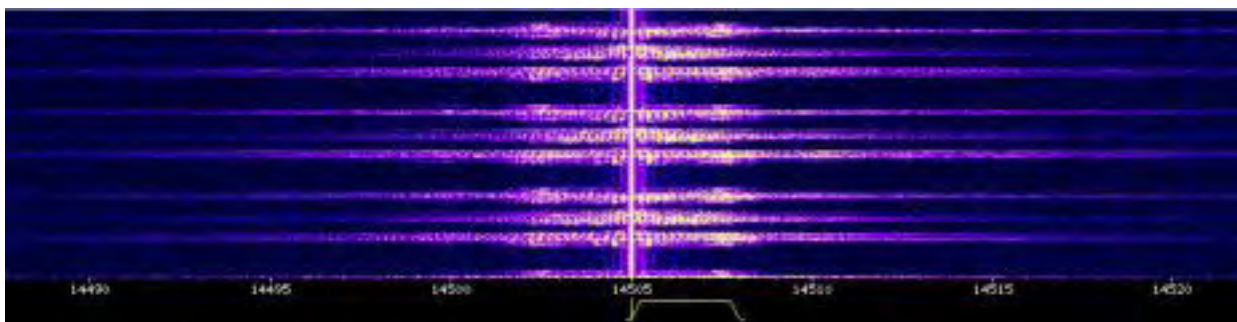
S06c
October:

8178kHz1438z	22/10 [i.p.: 11019 rptd] no ending, out at 1454z	FN	SAT

S06e

No Reports

S06s
September log:

4628kHz 1935z	10/09 [366 00000] Medium/strong signal, strong noise	FR, Danix, Spectre	SAT
4845kHz1410z	29/09[624 624 624 00000]	FN	THU
5320kHz1400z	29/09[624 624 624 00000]	FN	THU
5760kHz 0700z	13/09[374 950 6 56723 59783 93251 57852 13855 77859] Weak/Fair	Hans, Spectre	TUE
0700z	20/09[374 952 6 25645 11325 55240 24444 52757 45392 952 6 00000(s)] 0705z Weak QRN2 QSB2	Spectre	TUE
0700z	27/09[374 952 6 25645 11325 55240 24444 52767 45392 00000] Weak, noisy signal	FR	TUE
5805kHz1240z	06/09 [278 901 5 57033 55491 25055 44401 29565 901 5 00000(s)] 1245z Weak QRN2 QSB2	Spectre, FN	TUE
6340kHz0600z	02/09[934 251 6 12334 76225 24574 45003 50658 27515] Weak	Hans	FRI
1010z	13/09[893 524 6 58895 05857 54884 89899 59245 58154] Weak	Hans	TUE
	Was a Saturday sked, looks like it has moved to Tuesday. Poor audio quality.		
6415kHz1210z	07/09[481 902 5 12515]	FN, Fanis	WED
1210z	28/09 [481 269 5 46647 75877 08755 56428 24013 269 5 00000(s)] 1215z Weak QRN2 QSB2	Spectre, Fanis	WED
6464kHz1500z	06/09[537 904 6 72751]	FN, Fanis	TUE
1500z	27/09[537 289 6 78235 46730 19277 56563 23897 23016 00000] Very strong signal, weak noise	FR, FN, Fanis	TUE
6830kHz1610z	05/09[176 204 5 48554]	FN	MON
1610z	26/09[176 832 5 68867 20333 86736 48797 18672 00000] Medium/strong signal, strong noise	FR	MON
6839kHz1610z	12/09[176 204 5 48554 18844 86169 35410 05785] Fair/Strong	Hans	MON
6930kHz0715z	27/09[374 952 6 25645 11325 55240 24444 52767 45392 00000] Weak/medium noisy signal	FR	TUE
7120kHz1200z	07/09[481 902 5 12515]	FN, Fanis	WED
1200z	28/09[481 269 5 46647 75877 08755 56428 24013 269 5 00000(s)] 1205z Weak HAMQRM3 QSB3	Spectre, Fanis	WED
7242kHz1510z	06/09[537 904 6 72751]	FN	TUE
1510z	13/09[537 ... 0 0 0 0 0] 1515z QSA2 QRM3 YL	Fanis	TUE
7245kHz1510z	27/09[537 289 6 78235 46730 19277 56563 23897 23016 00000] Very strong signal, weak noise	FR, FN	TUE
7335kHz0730z	07/09[745 983 6 54965 45055 51122 98224 88445 48490 00000] Weak, high QRM	FR, FN	WED
0730z	28/09[742 912 6 45594 32342 74369 48558 48453 29715 912 6 00000(s)] 0735z Weak QRN2 QSB2	Spectre	WED
7385kHz1240z	08/09[143 562 7 93689 59750 51655 41668 30945 61685 33856 562 7 00000(s)] 1246z Weak	SpectreFN, Fanis	THU
7605kHz0820z	07/09[471 903 5 89556 98307 43575 04253 45505 00000] Strong, weakQRM	FR, FN, Fanis	WED
7620kHz1230z	07/09[967 801 5 61277] weak signal	FN	WED
1230z	14/09[967 801 5 61277 54458 32752 57068 62057 801 5 00000(s)] 1235z Weak QRN3 QSB3	Spectre	WED
8040kHz1600z	05/09[176 204 5 48554]	FN	MON
1600z	19/09[176 ... 0 0 0 0 0] 1605z QSA1 YL	Fanis	MON
1600z	26/09[176 832 5 68867 20333 86736 48797 18672 00000] Very strong signal, minor fading	FR	MON
8105kHz1240z	07/09[967 801 5 61277]	FN, Fanis	WED
1240z	14/09[967 801 5 61277 54458 32752 57068 62057 801 5 00000(s)] 1245z Weak QRN3 QSB3	Spectre	WED
8270kHz 1910z	07/09[371 986 5 73574 64501 45510 48743 53224 986 5 00000(s)] 1915z Fair QRN2 QSB2	Spectre	WED
1910z	14/09[371 986 5 73574 64501 45510 48743 53224 986 5 00000(s)] 1915z Fair QRN3 QSB2	Spectre	WED
1910z	21/09[371 968 968 5 5 98057 73151 42136 35257 73368 968 968 5 5 00000] YL, Strong	AE	WED
1910z	28/09 [371 968 5 98057 73151 42136 35257 73368 968 5 00000(s)] 1915z Fair QRN2 QSB2	Spectre, FN	WED
8520kHz1210z	03/09[254 870 6 62242 58195 44525 15355 47845 28125] 1215z Very strong	Danix	SAT
8650kHz1230z	08/09[314 x8x 7 8xxxx]	FN, Fanis	THU
8695kHz 0610z	02/09[196 427 5 33692 25785 66234 92577 30105] Weak	Hans	FRI
9145kHz1200z	05/09[831 465 7 73574 74501 45510 48743 53224 26813 20585 465 7 00000(s)] 1206z Weak QRN2 QSB2	Spectre,FN,Fanis	MON
1202z	12/09[831 ... 0 0 0] 1207z QSA2 YL	Fanis	MON
1200z	19/09[831 ... 0 0 0 0 0] 1205z QSA1 YL	Fanis	MON
9220kHz 1900z	07/09[371 986 5 73574 64501 45510 48743 53224 986 5 00000(s)] 1905z Fair QRN2 QSB2	Spectre	WED
1900z	14/09[371 986 5 73574 64501 45510 48743 53224 986 5 00000(s)] 1905z Fair QRN3 QSB2	Spectre	WED
1900z	21/09[371 968 968 5 5 98057 73151 42136 35257 73368 968 968 5 5 00000] YL, Strong	AE	WED
1900z	28/09[371 968 5 98057 73151 42136 35257 73368 968 5 00000(s)] 1905z Fair QRN2 QSB2	Spectre, FN	WED

Freq/Time	Log	Reporters	Day
9255kHz0830z	07/09[471 903 5 89556 98307 43575 04253 45505 00000] Very strong , weak QRM	FR, FN, Spectre	WED
9480kHz0840z	07/09[328 514 6 91052]	FN	WED
0840z	28/09[328 579 6 98992 39815 14610 94045 98342 16532 579 6 00000(s)] 0845z Fair QRN2 QSB2	Spectre	WED
10350kHz1200z	03/09[254 870 6 62242 58195 44525 15355 47845 28125] 1205z Fair XJTQRM4	Danix	SAT
10420kHz 0810z	13/09[352 970 6 46774 29826 73608 73546 43456 02556 970 6 00000(s)] 0815z Fair QRN3 QSB2	Spectre	TUE
0810z	27/09[352 960 7 07113 91575 16408 85474 59834 26635 93815 00000] Very strong signal	FR	TUE
10835kHz0530z	07/09[153 847 6 54765 85592 74554 21829 51447 15594 00000] Strong, QRM	FR	WED
11040kHz0850z	07/09[328 514 6 91052]	FN	WED
0850z	28/09[328 579 6 98992 39815 14610 94045 98342 16532 579 6 00000(s)] 0855z Fair QRN2 QSB2	Spectre	WED
11460kHz 1210z	05/09[831 465 7 73574 74501 45510 48743 53224 26813 20585 465 7 00000(s)] 1216z Weak QRN2 QSB2	Spectre, FN, Fanis	MON
1210z	12/09[831 465 7 73574 74501 45510 48743 53224 26813 20575] Weak	Hans, Fanis	MON
11635kHz 0800z	13/09[352 970 6 46774 29826 73608 73546 43456 02556 970 6 00000(s)] 0805z Fair QRN3 QSB2	Spectre	TUE
0800z	20/09[352 960 7 07113 91575 16408 85474 59834 26635 93815 960 7 00000(s)] 0806z Weak QRN2 QSB2	Spectre	TUE
0800z	27/09[352 960 7 07113 91575 16408 85474 59834 26635 93815 00000] Very strong signal	FR	TUE
11830kHz0740z	07/09[745 983 6 54965 45055 51122 98224 88445 48490 00000] Strong	FR, FN	WED
0740z	28/09[742 912 6 45594 32342 74369 48558 48453 29715 912 6 00000(s)] 0745z Weak QRN2 QSB2	Spectre	WED
12140kHz0930z	02/09[516 982 7 28963 04621 55455 42458 94645 95905 40545] V.strong	Hans	FRI
0930z	09/09[516 982 7 28963 04621 55455 42458 94645 95905 40545 982 7 00000(s)] 0936z Fair QRN2 QSB2	Spectre, Fanis	FRI
0930z	16/09[516 427 6 71625 34677 81902 98561 56789 88019 00000] Very strong signal, QRM2	FR	THU
0930z	23/09[516 427 6 71625 34677 81902 98561 56782 88019 427 6 00000(s)] 0935z Fair QRN3 QSB2	Spectre	FRI
12170kHz0540z	07/09[07/09[153 847 6 54765 85592 74554 21829 51447 15594 00000]Weak/fair QRM	FR	WED
12355kHz 0610z	20/09[438 905 6 81545 74167 85202 85141 64526 83957 905 6 00000(s)] 0615z Weak QRN2 QSB2	Spectre	TUE
0610z	27/09[384 905 6 81545 74163 85202 85141 64526 03959 00000] Weak/medium noisy signal	FR	TUE
12560kHz1200z	08/09[425 873 6 88060]	FN, Fanis	THU
1200z	29/09[426 00000] repeated until 1204z 425?	GN	THU
12952kHz 0900z	08/09[167 843 5 48516 59417 63855 88900 34461 843 5 00000(s)] 0905z Fair	Spectre, FN	THU
13065kHz1214z	01/09 Missed call up, ends at 1215 00000 Strong local QRM S4	GN	THU
1210z	08/09[425 873 6 88060]	FN, Fanis	THU
1211z	29/09[426 00000] repeated until 1211z 425?	GN	THU
13365kHz1000z	07/09[729 841 5 12347 94665 46221 45061 44544 00000] Strong, strongQRM	FR, FN	WED
1000z	21/09[729 584 6 84482 45063 54481 46259 72094 43533 584 6 00000(s)] 1005z Fair QRN3 QSB2	Spectre	WED
1000z	28/09[729 584 6 84482 45063 54481 46259 72094 43533 584 6 00000(s)] 1005z Fair QRN2 QSB2	Spectre, Fanis	WED
13515kHz0942z	02/09[516 982 7 28963 04621 55455 42458 94645 95905 40545 982 7 0 0 0 0 0]0945z QSA5	JO	FRI
0940z	09/09[516 982 7 28963 04621 55455 42458 94645 95905 40545]Fair	Hans, Spectre	FRI
0940z	16/09[516 427 6 71625 34677 81902 98561 56789 88019 00000] Strong signal, strong noise	FR	THU
0940z	23/09[516 427 6 71625 34677 81902 98561 56782 88019 427 6 00000(s)] 0945z Weak QRN3 QSB2	Spectre	FRI
13565kHz0910z	08/09[167 843 5 48516 59417 63855 88900 34461 843 5 00000(s)] 0915z Fair	Spectre, FN	THU
14080kHz 0600z	13/09[438 265 7 80545 15454 85833 51285 50841 15368 45135 265 7 00000(s)] 0606z Fair QRN2 QSB2	Spectre	TUE
0600z	27/09[384 905 6 81545 74163 85202 85141 64526 03959 00000] Very weak, noisy signal	FR	TUE
14505kHz1010z	07/09[729 841 5 12347 94665 46221 45061 44544 00000] Strong, strongQRM	FR, FN	WED
1010z	21/09[729 584 6 84482 45063 54481 46259 72094 43533 584 6 00000(s)] 1015z Fair QRN3 QSB2	Spectre	WED
1010z	28/09[729 584 6 84482 45063 54481 46259 72094 43533 584 6 00000(s)] 1015z Weak QRN2 QSB2	Spectre, Fanis	WED

October 2011:

S06s 14505kHz 1010z 26/10 Strong Signal From A Web SDR   © Spectre 2011

4845kHz1410z	06/10[624 901 5 46062 68672 97478 39685 30485 901 5 00000(s)] 1415z Weak QRN3 QSB2	Spectre	THU
1410z	13/10[624 901 5 46062]	FN	THU
5320kHz1400z	06/10[624 901 5 46062 68672 97478 39685 30485 901 5 00000(s)] 1405z Weak QRN2 QSB2	Spectre	THU
1400z	13/10[624 901 5 46062]	FN	THU
5760kHz0700z	04/10[374 968 5 43746 29523 24413 47563 96588 00000] Weak signal, very strong noise	FR	TUE
0700z	11/10[374 968 5 43746]	FN	TUE
0700z	18/10[374 743 743 743... 89675... LG 896 896 55] FAIR QSB3 00000 0705z	JDA	MON
5805kHz1240z	25/10[782 904 5 04339 58905 72533 35615 22700 904 5 00000(s)] 1245z Weak QRN3 QSB3	Spectre	TUE
6415kHz1210z	05/10[481 920 5 77145] weak signal	FN	WED
6464kHz1500z	11/10[537 201 6 66121] QRM dig. sta	FN	TUE
6830kHz1610z	03/10[176 980 5 55463 58078 65470 85204 25743 980 5 00000(s)] 1615z Fair QRN2 QSB2	Spectre	MON
6840kHz1610z	03/10[176 980 5 55463 58078 65470 15204 25743 00000] Very strong, weak/moderate noise	FR , FN	MON
6930kHz0715z	04/10[374 968 5 43746 29523 24413 47563 96588 00000] Med/Strong, very strong noise	FR	TUE
0715z	11/10[374 968 5 43746]	FN	TUE
7120kHz1200z	05/10[481 920 5 77145] weak signal	FN	WED
7242kHz1510z	11/10[537 201 6 66121] Slight BCQRM	FN	TUE
7260kHz1230z	19/10[967 813 5 99578]	FN	WED
7335kHz0730z	19/10[745 910 6 34682]	FN	WED
7385kHz1240z	13/10[314 592 6 46215]	FN	THU
7605kHz0820z	12/10[471 803 5 99355]	FN	WED
7620kHz1230z	05/10[967 802 5 49471]	FN	WED
7795kHz0700z	14/10[196 807 5 46570]	FN	FRI
0659z	21/10[196 403 5 78239 19276 45663 29090 12390 00000] Very strong signal, weak noise	FR	FRI
8040kHz1600z	03/10[176 980 5 55463 58078 65470 15204 25743 00000] Very strong	FR, FN, Spectre	MON
8105kHz1240z	05/10[967 802 5 49471] weak signal, QRM	FN	WED
1240z	19/10[967 813 5 99578]	FN	WED
8270kHz 1910z	05/10[371 904 5 75151 25504 53328 61265 63676 904 5 00000(s)] 1915z Fair QRN3 QSB2	Spectre	WED
1910z	12/10[371 904 5 75151 25504 53328 61265 63676 904 5 00000(s)] 1915z Fair QRN2 QSB2	Spectre , FN	WED
1910z	26/10[371 590 6 99135 48950 41100 14441 42246 57855 590 6 00000(s)] 1915z Fair QRN2 QSB2	Spectre	WED
8650kHz1230z	13/10[314 592 6 46215]	FN	THU
8695kHz0710z	14/10[196 807 5 46570]	FN	FRI
0709z	21/10[196 403 5 78239 19276 45663 29090 12390 00000] Very strong signal, weak noise	FR	FRI
9145kHz1200z	03/10[831 920 5 20365]	FN	MON
1200z	24/10[831 972 5 44839 29831 40965 64122 95721 972 5 00000(s)] 1205z Weak QRN2 QSB2	Spectre	MON
9220kHz 1900z	05/10[371 904 5 75151 25504 53328 61265 63676 904 5 00000(s)] 1905z Fair QRN3 QSB2	Spectre	WED
1900z	12/10[371 904 5 75151 25504 53328 61265 63676 904 5 00000(s)] 1905z Fair QRN2 QSB2	Spectre, mndbs	WED
1900z	26/10[371 590 6 99135 48950 41100 14441 42246 57855 590 6 00000(s)] 1905z Fair QRN2 QSB2	Spectre, FN,HJH	WED
9255kHz0830z	12/10[471 803 5 99355]	FN	WED
9480kHz0840z	12/10[328 905 6 06453]	FN	WED
10420kHz0810z	04/10[352 490 6 56657 74693 37481 96425 44534 53978 00000] Medium signal, strong noise	FR, FN	TUE
11040kHz0850z	12/10[328 905 6 06453]	FN	WED
11460kHz1210z	03/10[831 920 5 20365]	FN	MON
1210z	24/10[831 972 5 44839 29831 40965 64122 95721 972 5 00000(s)] 1215z Fair XJTQRM3 QSB2	Spectre	MON
11635kHz0800z	04/10[352 490 6 56657 74693 37481 96425 44534 53978 00000] Very strong signal, weak noise	FR, FN	TUE
11830kHz0740z	19/10[745 910 6 34682]	FN	WED
12140kHz0930z	14/10[516 438 7 43443]	FN	FRI
12355kHz0610z	04/10[438 520 6 84575 62809 55616 45062 44544 55155 00000] Very strong, weak noise	FR	TUE
0610z	11/10[438 520 6 84575]	FN	TUE
12952kHz0900z	13/10[167 930 5 84170]	FN	THU

Freq/Time	Log	Station	Day
13365kHz 1000z	05/10[729 805 6 45195 18587 57460 54667 56689 57973 805 6 00000(s)] 1005z Weak QRN3 QSB2	Spectre, FN	WED
1000z	12/10[729 805 6 45195 18587 57460 54667 56689 57973 805 6 00000(s)] 1005z Very Weak QRN3 QSB2	Spectre	WED
1000z	26/10[729 486 5 20163 29076 54605 45562 52562 486 5 00000(s)] 1005z Strong QRN2 QSB2	Spectre	WED
13515kHz 0940z	14/10[516 438 7 43443]	FN	FRI
13565kHz 0910z	13/10[167 930 5 84170]	FN	THU
14080kHz 0600z	04/10[438 520 6 84575 62809 55616 45062 44544 55155 00000] Strong , very strong noise	FR	TUE
0600z	11/10[438 520 6 84575]	FN	TUE
14210kHz 1251z	27/10[i/p 429 00000] Good signal S8	GN	THU
14505kHz 1010z	05/10[729 805 6 45195 18587 57460 54667 56689 57973 805 6 00000(s)] 1015z Very Weak QRN3 QSB2	Spectre, FN	WED
1010z	12/10[729 805 6 45195 18587 57460 54667 56689 57973 805 6 00000(s)] 1015z Fair QRN2 QSB2	Spectre	WED
1010z	19/10[729 + msg text]	IW	WED
1010z	26/10[729 486 5 20163 29076 54605 45562 52562 486 5 00000(s)] 1015z Strong QRN2 QSB2	Spectre	WED
17478kHz 1400z	20/10[826 903 51 42601 61566]	FN	THU

PoSW's S06 logs:

I thought this report was going to be the usual list of four minutes worth of "00000 - no message", but Ivan surprised us on the first Saturday of October by sending a full message. Seasonal changes of frequencies as we move into autumn.

Saturday 1600 or 1605 UTC Schedule:-
3-Sept-11:- 1605 UTC, 7,612 kHz, "134 134 134 00000", strong signal peaking S9.

10-Sept-11:- 1605 UTC, 7,612 kHz, "134 134 134 00000". Carrier up 1544z, tone at 1551z, single Russian "134" just after 1555z.

24-Sept-11:- 1605 UTC, 7,612 kHz, "134 134 134 00000", weak swept frequency jammer presumably aimed at a nearby broadcast station rather than S06.

1-Oct-11:- 1600 UTC, 8,162 kHz - "on the hour" start for a change *and* a "full message".
Somewhat unusual these days, I think the last such transmission I logged was in
back in May. Calling "134", DK/GC "562 562 38 38". Good signal.

8-Oct-11:- 1605 UTC, 7,612 kHz, "134" and "562 562 38 38" again.

15-Oct-11:- 1605 UTC, 7,612 kHz, "134" and "562 562 38 38" continues.

22-Oct-11:- 1605 UTC, 7,612 kHz, "134" and "562 562 38 38", so no change there, perhaps the message hasn't got through yet. Come on, agent 134, do try and keep up!

Saturday 1930 or 1935 UTC Schedule:-
3-Sept-11:- 1935 UTC, 4,628 kHz, "366 366 366 00000". Weak signal. Heard in May, June, July and August at 1935z, 6,922 kHz or at 1930z, 7,718 kHz. Was heard at 1935z on 4,628 kHz in March and April of this year.

17-Sept 11:- 1935 UTC, 4,636 kHz, 8 kHz higher than when heard on the third. "366 366 366 00000". Weak signal

24-Sept-11:- 1930 UTC, 5,787 kHz, "366 366 366 00000". Good signal, much stronger than when heard on the lower frequency 1935z slot earlier in the month.

1-Oct-11:- 1930 UTC, 5,787 kHz, "366 366 366 00000", peaking S9.

8-Oct-11:- 1930 UTC, 5,787 kHz, "366 366 366 00000".

15-Oct-11:- 1935 UTC, 4,618 kHz - this five minute offset start-up moves around a bit in frequency! - "366 366 366 00000" Over-riding local QRM from TV sets, I suppose. I think the neighbours are all watching "Big Brother Strictly Come Dancing Celebrity X- Factor", or some such appalling old crap.

Saturday 1900 + 2000 UTC Schedule:-
3-Sept-11:- 1900 UTC, 6,791 kHz, "703 703 703 00000". S9+ signal over-riding a weaker
"XJT".
2000 UTC, 5,848 kHz, second sending, again S9+ and again over-riding an "XJT" - weird or what? In the summer months heard at 1900z on 10,178 kHz and at 2000z on 9,065 kHz
- that's nine zero six five and not 7,718 as I typed in error last time.

17-Sept-11:- 1900 UTC, 6,791 kHz and 2000 UTC, 5,848 kHz, "703 703 703 00000", both with "XJT" underneath.

I lost track of this schedule in October, on Saturday the 1st couldn't find a transmission at 1900 UTC or at 2000 UTC, that is 8 pm and 9 pm in the the UK, still summertime until the last weekend in this month. However, on Saturday the 15th found the second sending at
2130 UTC, 10.30 pm British summertime having shifted by an hour and a half:-

15-Sept-10:- 2130 UTC, 5,848 kHz, "703 703 703 00000". S9 signal over-riding an "XJT". Presumably the first sending would have been on at 2030z, 9.30 pm on 6,791 kHz.

 And here's a funny thing; this schedule was logged in March of this year at these times,
on the 5th and 19th of that month, similar frequencies, call "703", 8.30 pm and 9.30 pm in what was then the UK winter.

Wednesday 1800 or 1805 UTC Schedule:-
7-Sept-11:- 1800 UTC, 5,735 kHz, "471 471 471 00000", weak signal.

14-Sept-11:- 1800 UTC, 5,735 kHz, "471 471 471 00000", peaking S9, much stronger than last time.
21-Sept-11:- 1805 UTC, 5,070 kHz, "471 471 471 00000", alternative time and frequency.
Good signal, S9 with deep QSB.

28-Sept-11:- 1800 UTC, 5,735 kHz, "471 471 471 00000", S9 signal.

5-Oct-11:- 1800 UTC, 5,735 kHz, "471 471 471 00000", S9.

19-Oct-11:- 1805 UTC, 5,070 kHz, "471 471 471 00000".

Monday + Thursday 1900 or 1905 UTC Schedule:-
1-Sept-11, Thursday:- 1905 UTC, 5,127 kHz, "349 349 349 00000", strong signal.

8-Sept-11, Thursday:- 1905 UTC, 5,127 kHz, "349 349 349 00000".

12-Sept-11, Monday:- 1900 UTC, 5,784 kHz, "349 349 349 00000", S9+.

15-Sept-11, Thursday:- 1905 UTC, 5,127 kHz, "349 349 349 00000", S9+.

29-Sept-11, Thursday:- 1900 UTC, 5,789 kHz, "349 349 349 00000".

10-Oct-11, Monday:- 1900 UTC, 5,784 kHz, "349 349 349 00000".

13-Oct-11, Thursday:- 1900 UTC, 5,784 kHz, "349 349 349 00000", S9+ signal.

17-Oct-11, Monday:- 1900 UTC, 5,784 kHz, "349 349 349 00000", S9+ again.

Second + Fourth Mondays in the Month Schedule:-
12-Sept-11:- 2015 UTC, 11,460 kHz, "207 207 207 00000". Weak signal.
2115 UTC, 2115 kHz, second sending, very weak signal, carrier noted on 9,175 just after 2100z.
26-Sept-11:- 2015 UTC, 11,460 kHz, very weak signal, presumed to be the 2015z first sending of the fourth Monday in the month schedule, unreadable.
2115 UTC, 9,175 kHz, "207 207 207 00000", very weak, only just readable. Had a rapid flutter on the signal which suggests some kind of auroral disturbance. A check on Shannon
VOLMET on 5,505 and RAF VOLMET on 5,450 showed the same kind of effect.

10-Oct-11:- 2015 UTC, 9,245 kHz, calling "621" for a full message! Somewhat unusual these days, the Saturday 1600z S06 also currently in this mode! DK/GC "485 485 92 92".
Weak signal and became weaker as the transmission progressed. Ended just before 2035z with DKDK GCGC and rapid "00000".
2120 UTC, 7,760 kHz, second sending, not found until about five minutes into the transmission, very weak signal.

11-Oct-11, Tuesday:- 2021 UTC, 9,242 kHz, suddenly remembered a "full message" means a repeat on the following day! Missed the start, 3 kHz lower than yesterday and a much stronger signal, S6 to S7.
2115 UTC, 7,760 kHz, second sending of "621" and "485 485 92 92". Also a much stronger signal than yesterday, around S7. Strange how propagation can change so much in just 24 hours.

24-Oct-11:- 2015 UTC, 9,240 kHz, very weak signal of some kind presumed to be the first sending.
2115 UTC, 7,760 kHz, second sending, slightly stronger than the above - but only just! Could just about hear the "621" call-up.

25-Oct-11, Tuesday:- 2028 UTC, 9,230 kHz, next day repeat in progress, much stronger signal than yesterday, S7 to S8, ended before 2035z with "485 485 92 92 00000".
2115 UTC, 7,760 kHz, call "621", DK/GC "485 485 92 92", again much stronger than yesterday's sending.

Wednesday 2000 or 2005 UTC Schedule:-
This is a repeat sending of the "full message" transmitted on Saturdays at 1600 or 1605 UTC, not sure if it runs if Saturday's sending is the more usual four minutes of "no message".
12-Oct-11:- 2000 UTC, 5,406 kHz, call "134", DK/GC "562 562 38 38", as on Saturdays in October.

26-Oct-11:- 2010 UTC, 4,492 kHz, transmission in progress, must be alternative start-up time
 of 2005z, not found until about five minutes into the transmission. Local QRM making copy difficult. Ended after 2015z with "562 562 38 38 00000".

S11a[III]
September/October log:

4909kHz 1355z	05/09 [254/00] 1358z Very strong	Danix	MON
1355z	03/10 [254/32 V 57935 79409 34342 ... 98014] 1405z Very strong	Danix	MON
5815kHz 1020z	05/10 [228/32 47237…..]	Fritz	WED
1020z	08/10 [228/32 47237]	Fritz	SAT
1020z	26/10 [221/00] Medium/strong signal, very strong noise	Fox	WED
7317kHz 0915z	02/09 [484/00] Strong	Hans	FRI
0915z	09/09 [485/38 V 69060 04950 .... 19808] 0927z Strong	Hans	FRI
0915z	14/10 [484/00]	Danix	FRI
0915z	18/10 [484/00] Fair	RNGB	TUE
0915z	25/10 [485/35 49867 23133 67564 22958 79090…..11750] Good	RNGB	TUE

9960kHz1020z	02/09 [426/00] Strong	Hans, RNGB	FRI
1020z	13/09 [426/00] 1022z QSA1 QRM1 YL	Fanis	TUE
1020z	20/09 [421/36 59121 97393 39935 43782 11428…..82367] Fair	RNGB	TUE
1020z	27/09 [426/00]	RNGB	TUE
1020z	11/10 [424/35 46926 13337 31350 20967 02744…..80285] Good	RNGB	TUE
1020z	21/10 [426/00] Very strong signal, moderate/strong noise	Fox	FRI
1020z	25/10 [426/00] 1023z Weak QRN2 QSB2	Spectre	TUE

15915kHz 1540z	24/10 [228/00] Strong	RNGB	MON

16112kHz 1015z	12/09 [471/37 44299…?] V.weak	RNGB	MON
1015z	26/09 [475/00] Good	RNGB	MON
1014z	03/10 [475/00]	RNGB	MON
1015z	13/10 [471/38 49292 46718 93346 87355 32081…..81455] Fair	RNGB	THU
1015z	24/10 [475/00] Good	RNGB	MON
1015z	31/10 [475/00] Very strong signal, moderate noise,	Fox	MON

S21 [XIV]
September:

4454kHz1843z	06/09[454 280 32 38383 ... 17314 280 32 000] 1854z Weak QRN3 QSB3	Spectre, mndbs	TUE

```
38383 62127 67733 82939 05531 66931 98569 92018 93445 75256
52535 06026 08205 74881 35868 76324 91205 83904 77365 41058
17965 89472 36530 93472 19907 52831 23818 62358 68156 768436
33962 17314
280/32 000 ends at 1854z          Courtesy Mndbs
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Carrier remains, at 1855z short 1.5k tone followed shortly by musical notes then carrier drops

4454kHz1842z	08/09[454 280 32 38383 ... 17314 280 32 000] 1853z Weak QRN3 QSB2	Spectre, HJH	THU
1842z	13/09 unworkable signal	HJH	TUE
1842z	15/09[454...] 1854z QSA2 QRM3 OM	Fanis	THU
1842z	27/09[454 280 32 38383 ... 17314 000] very strong signal, weak/moderate noise	FR	TUE

```
454 280 32
38383 62127 67733 82939 05531
66931 98569 92018 93445 75276
52535 06026 08205 74881 35868
76324 91205 83904 77365 41058
17965 89472 36530 93472 19907
52831 23818 62358 68156 76843
33962 17314 000   Courtesy FR
```

4854kHz1842z	06/09[454 280 32 38383]	FN	TUE
1842z	15/09[454 280 32 38383 38383 62127 67733 .... 17314] V.strong	Hans, FR, Fanis	THU

October 2011:

4454kHz1842z	04/10[454 443 34] weak, QRM	FN	TUE
1842z	11/10[454 ....] Audio difficult	HJH	TUE
1842z	18/10 Audio weak with background hash. Signal unworkable	HJH	TUE

|			
4854kHz1842z	04/10[454 443 34] weak , QRM	FN	TUE
1842z	20/10[454 ??? ?? ?????] Medium signal strength, very strong noise, bleeding	FR	THU

S28

September:

4625kHz 1332z	10/09[The Buzzer] Very strong	Danix	SAT
0300z	03/09 Male voice. MDZhB 10 422 Apogranit 92 31 75 63	Ary	SAT
1320z	04/09 Male voice. MDZhB 80 413 KizjaK 95 26 24 34	Ary	SUN
1230z	05/09 Male voice. MDZhB 75 939 Nizkij 34 52 32 31. Different repeat: MDZhB 55 739 Nizkij 74 52 32 31	Ary	MON
1250z	05/09 Male voice. MDZhB 09 402 Zizifus 91 36 32 41	Ary	MON
1340 z	05/09 Male voice. MDZhB 94 064 Lizis 39 50 69 22	Ary	MON
1342 z	05/09 Male voice. MDZhB 41 079 Kizar 56 09 66 06	Ary	MON
1130 z	09/09 Male voice. 44 729 Sizal' 79 84 36 62 Sidnokarb 41 72 92 04	Ary	FRI

4666kHz 2006z	12/09 [Harmonic] Weak QRN3 QSB3	Spectre	MON

4706kHz 2007z	12/09 [Harmonic] Weak QRN3 QSB3	Spectre	MON

October:

(Reception reports, no messages, only channel marker.)

Here, Spectre reports on the Harmonics discovered in mid-September and provides a spectral image

S28 4625 kHz   S28 Harmonic 4667 kHz   S28 Harmonic 4709 kHz
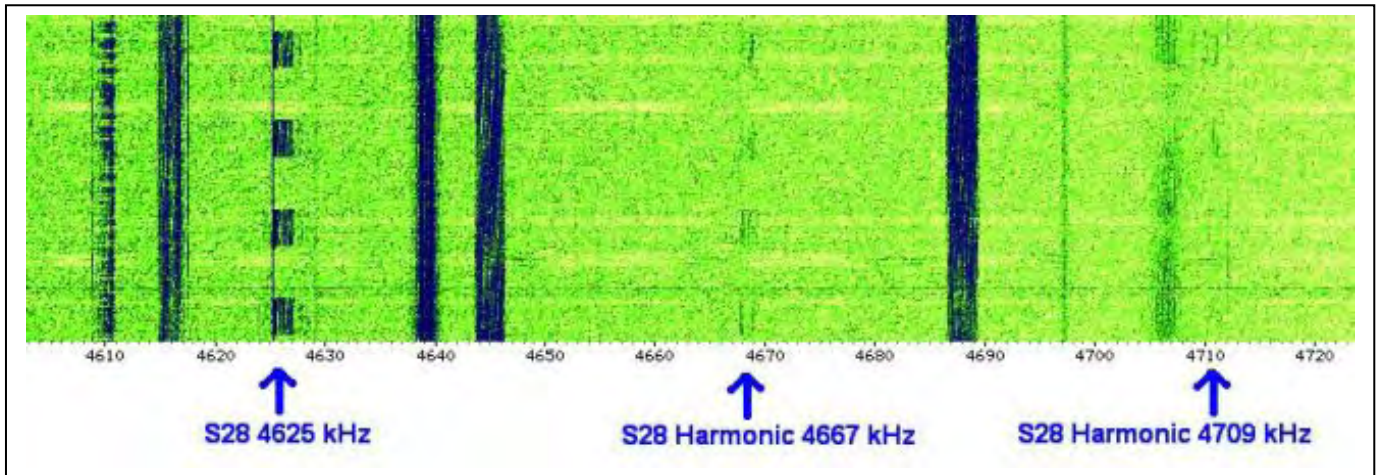
This harmonic was found on very similar frequencies last year:

http://www.youtube.com/watch?v=D4_iIH8ww8o&feature=mfu_in_order&list=UL

4582kHz 0010z	29/10 [Harmonic] Weak RTTYQRM3 QSB3	Spectre	SAT
4562kHz 2255z	29/10 [Harmonic] Very Weak RTTYQRM3 QSB4	Spectre	SAT
4562kHz 2034z	30/10 [Harmonic] Very Weak RTTYQRM3 QSB3	Spectre	SUN
4562kHz 2155z	31/10 [Harmonic] Very Weak RTTYQRM3 QSB3	Spectre	MON
4666kHz 1512z	06/10 [Harmonic] Very Weak QRN2 QSB3	Spectre	THU
4666kHz 1927z	06/10 [Harmonic] Weak QRN3 QSB3	Spectre	THU
4666kHz 1944z	07/10 [Harmonic] Weak QRN3 QSB3	Spectre	FRI
4666kHz 0018z	08/10 [Harmonic] Very Weak QRN3 QSB3	Spectre	SAT
4667kHz 2031z	30/09 [Harmonic] Weak QRN2 QSB2	Spectre	FRI
4667kHz 2334z	01/10 [Harmonic] Fair QRN3 QSB3	Spectre	SAT
4667kHz 0046z	02/10 [Harmonic] Fair QRN3 QSB3	Spectre	SUN
4667kHz 2246z	03/10 [Harmonic] Very Weak QRN2 QSB2	Spectre	MON
4667kHz 2159z	04/10 [Harmonic] Very Weak QRN3 QSB3	Spectre	TUE
4667kHz 2055z	05/10 [Harmonic] Very Weak QRN2 QSB3	Spectre	WED
4667kHz 2257z	09/10 [Harmonic] Weak QRN3 QSB3	Spectre	SUN
4667kHz 1957z	10/10 [Harmonic] Very Weak QRN3 QSB3	Spectre	MON
4667kHz 2134z	11/10 [Harmonic] Very Weak QRN3 QSB3	Spectre	TUE
4667kHz 2156z	12/10 [Harmonic] Very Weak QRN3 QSB3	Spectre	WED
4667kHz 2046z	13/10 [Harmonic] Very Weak QRN3 QSB2	Spectre	THU
4667kHz 2217z	14/10 [Harmonic] Very Weak QRN3 QSB3	Spectre	FRI
4667kHz 0002z	15/10 [Harmonic] Very Weak QRN3 QSB2	Spectre	SAT
4667kHz 2020z	15/10 [Harmonic] Very Weak QRN3 QSB3	Spectre	SAT
4667kHz 2040z	16/10 [Harmonic] Very Weak QRN3 QSB4	Spectre	SUN
4667kHz 2230z	20/10 [Harmonic] Weak QRN2 QSB3	Spectre	THU
4667kHz 0105z	22/10 [Harmonic] Weak QRN3 QSB3	Spectre	SAT
4667kHz 2237z	22/10 [Harmonic] Fair QRN3 QSB2	Spectre	SAT
4667kHz 2013z	23/10 [Harmonic] Fair QRN2 QSB2	Spectre	SUN
4667kHz 2039z	25/10 [Harmonic] Fair QRN2 QSB3	Spectre	TUE
4667kHz 2200z	26/10 [Harmonic] Weak QRN3 QSB3	Spectre	WED
4667kHz 1945z	27/10 [Harmonic] Weak QRN3 QSB3	Spectre	THU
4667kHz 2134z	28/10 [Harmonic] Weak QRN3 QSB3	Spectre	FRI
4667kHz 0008z	29/10 [Harmonic] Fair QRN3 QSB3	Spectre	SAT
4667kHz 2253z	29/10 [Harmonic} Weak QRN3 QSB4	Spectre	SAT
4667kHz 2035z	30/10 [Harmonic] Weak QRN3 QSB3	Spectre	SUN
4667kHz 2156z	31/10 [Harmonic] Weak QRN3 QSB3	Spectre	MON
4668KHz 1929z	17/10 [Harmonic] Fair QRN2 QSB2	Spectre	MON
4668kHz 1946z	24/10 [Harmonic] Very Weak QRN3 QSB3	Spectre	MON
4708kHz 1513z	06/10 [Harmonic] Very Weak QRN2 QSB3	Spectre	THU
4708kHz 1926z	06/10 [Harmonic] Fair QRN3 QSB3	Spectre	THU
4709kHz 2030z	30/09 [Harmonic] Fair QRN2 QSB2	Spectre	FRI
4709kHz 2335z	01/10 [Harmonic] Weak QRN3 QSB2	Spectre	SAT
4709kHz 0047z	02/10 [Harmonic] Very Weak QRN3 QSB3	Spectre	SUN
4709kHz 2247z	03/10 [Harmonic] Very Weak QRN2 QSB2	Spectre	MON
4709kHz 2204z	04/10 [Harmonic] Very Weak QRN3 QSB3	Spectre	TUE
4709kHz 2056z	05/10 [Harmonic] Very Weak QRN2 QSB3	Spectre	WED
4709kHz 1945z	07/10 [Harmonic] Very Weak QRN3 QSB3	Spectre	FRI
4709kHz 2258z	09/10 [Harmonic] Very Weak QRN3 QSB3	Spectre	SUN
4709kHz 1958z	10/10 [Harmonic] Very Weak QRN3 QSB3	Spectre	MON

4709kHz 2135z	11/10 [Harmonic] Very Weak QRN3 QSB3		Spectre	TUE
4709kHz 2157z	12/10 [Harmonic] Very Weak QRN3 QSB3		Spectre	WED
4709kHz 2047z	13/10 [Harmonic] Very Weak QRN3 QSB3		Spectre	THU
4709kHz 2218z	14/10 [Harmonic] Very Weak QRN3 QSB3		Spectre	FRI
4709kHz 0003z	15/10 [Harmonic] Very Weak QRN3 QSB3		Spectre	SAT
4709kHz 2021z	15/10 [Harmonic] Very Weak QRN3 QSB3		Spectre	SAT
4709kHz 2041z	16/10 [Harmonic] Very Weak QRN4 QSB4		Spectre	SUN
4709kHz 0107z	22/10 [Harmonic] Very Weak QRN3 QSB3		Spectre	SAT
4709kHz 2238z	22/10 [Harmonic] Weak QRN3 QSB2		Spectre	SAT
4709kHz 1947z	24/10 [Harmonic] Very Weak QRN4 QSB3		Spectre	MON
4709kHz 2040z	25/10 [Harmonic] Weak QRN2 QSB2		Spectre	TUE
4709kHz 2201z	26/10 [Harmonic] Very Weak QRN3 QSB4		Spectre	WED
4709kHz 1946z	27/10 [Harmonic] Very Weak QRN3 QSB3		Spectre	THU
4709kHz 2137z	28/10 [Harmonic] Very Weak QRN3 QSB3		Spectre	FRI
4709kHz 0007z	29/10 [Harmonic] Very Weak QRN3 QSB3		Spectre	SAT
4709kHz 2254z	29/10 [Harmonic] Very Weak QRN3 QSB4		Spectre	SAT
4709kHz 2036z	30/10 [Harmonic] Very Weak QRN3 QSB3		Spectre	SUN
4709kHz 2157z	31/10 [Harmonic] Very Weak QRN3 QSB3		Spectre	MON
4710kHz 2012z	23/10 [Harmonic] Weak QRN2 QSB3		Spectre	SUN
4711kHz 1930z	17/10 [Harmonic] Weak QRN2 QSB2		Spectre	MON

S30
September:

3756kHz1648z	09/09[8S1Shch 59132 PODSTRUZhKA 7736 3663 (R2)] 1649z Very strong		Danix	FRI
5448kHz1001z	10/09[The Pip] Strong QSB3		Danix	SAT
1330z	10/09[The Pip] Very strong		Danix	SAT

S32

S32 (All heard in UK)

3828kHz 0056z	02/10 [Channel Marker, Heard In UK] Fair QRN3 QSB2		Spectre	SUN
2254z	03/10 [Channel Marker, Heard In UK] Weak QRN3 QSB2		Spectre	MON
2210z	06/10 [Channel Marker, Heard In UK] Fair QRN3 QSB2		Spectre	THU
2222z	07/10 [Channel Marker, Heard In UK] Weak QRN3 QSB2		Spectre	FRI
0056z	14/10 [Channel Marker, Heard In UK] Fair QRN3 QSB2		Spectre	SUN
2114z	16/10 [Channel Marker, Heard In UK] Very Weak QRN3 QSB3		Spectre	SUN
1933z	17/10 [Channel Marker, Heard In UK] Very Weak QRN3 QSB3		Spectre	MON
2304z	20/10 [Channel Marker, Heard In UK] Weak QRN3 QSB3		Spectre	THU
0043z	22/10 [Channel Marker, Heard In UK] Weak QRN3 QSB2		Spectre	SAT
2239z	22/10 [Channel Marker, Heard In UK] Weak QRN3 QSB2		Spectre	SAT
2020z	23/10 [Channel Marker, Heard In UK] Weak QRN3 QSB3		Spectre	SUN
1949z	24/10 [Channel Marker, Heard In UK] Very Weak QRN3 QSB3		Spectre	MON
2041z	25/10 [Channel Marker, Heard In UK] Weak QRN3 QSB3		Spectre	TUE
2202z	26/10 [Channel Marker, Heard In UK] Very Weak QRN3 QSB3		Spectre	WED
1951z	27/10 [Channel Marker, Heard In UK] Weak QRN3 QSB3		Spectre	THU
2138z	28/10 [Channel Marker, Heard In UK] Very Weak QRN3 QSB3		Spectre	FRI
0012z	29/10 [Channel Marker, Heard In UK] Very Weak QRN3 QSB3		Spectre	SAT
0109z	30/10 [Channel Marker, Heard In UK] Very Weak QRN3 QSB3		Spectre	SUN
2158z	31/10 [Channel Marker, Heard In UK] Very Weak QRN3 QSB3		Spectre	MON

V02a [XVIII]
PoSW's logs

Becoming a stronger signal as we loose daylight on the final approach through autumn towards winter. The 0800 UTC sending usually significantly weaker signal than the 0700 UTC.
3-Sept-11, Saturday:- 0700 UTC, 5,883 kHz, "Atencion, 78461 32552 51351". Signal strength S7 to S8.
0800 UTC, 5,898 kHz, "78461 32552 51351", as earlier, S5.

4-Sept-11, Sunday:- 0701 UTC, 5,883 kHz, nothing heard until approx. 1 minute past the hour. "Atencion, 80071 83871 18331", S7 to S8 with good audio. On a related theme, Radio Havana, Cuba noted in English at about 0645z on two frequencies in the 49 metre broadcast band, 6,060 and 6,150 kHz, both with strong signals, finished with music just before the hour.

10-Sept-11, Saturday:- 0700 UTC, 5,883 kHz, "Atencion, 54672 73851 28001". Good signal, started exactly on the hour.

11-Sept-11, Sunday:- 0700 UTC, 5,883 kHz, "Atencion, 77762 14472 85882".

17-Sept-11, Saturday:- 0700 UTC, 5,883 kHz, "Atencion, 63801 65322 20182". Good signal peaking S9, the DRM broadcaster on the LF side also very strong this morning.
0800 UTC, 5,883 kHz - started up on the wrong frequency with, "Atencion, 63801 65322 20182" as at 0700z but much weaker. Transmission continued on 5,883 until 0807z when it went off and came up on the correct frequency 5,898 kHz.

18-Sept-11, Sunday:- 0700 UTC, 5,883 kHz just a weak carrier on 5,883, no voice heard.

24-Sept-11, Saturday:- 0700 UTC, 5,883 kHz, "Atencion, 11651 56121 51742", peaking S9 with deep QSB. May have started early, "11651" repeated and into 5Fs after 0702z.
0759 UTC - started early - 5,898 kHz, "11651 56121 51742" as earlier. Strength S5.

25-Sept-11, Sunday:- 0700 UTC, nothing heard on 5,883 kHz but there *was* a carrier with no voice on 5,898, frequency used for the 0800z sending. Had gone when checked again at 0716z, still nothing on 5,883.

2-Oct-11, Sunday:- 0659 UTC, 5,883 kHz, early start again, "Atencion, 00151 78141 62762".
S9 signal with excellent audio.

8-Oct-11, Saturday:- 0700 UTC, 5,883 kHz, "Atencion, 10071 36312 38661". Strong signal
during call-up but went off for about a second and was distinctly weaker when it returned.
Call-up in progress when tuned in about 30 seconds before the hour.
0800 UTC, 5,898 kHz, early start again, "10071 36312 38661". Peaking over S8 with good audio; if there was a transmitter fault earlier they must have got inside the TX with a soldering iron and fixed it!

9-Oct-11, Sunday:- 0659 UTC - early start continues - 5,883 kHz, "Atencion, 05621 78682 06781". Very strong signal peaking over S9, best reception of V02a since last winter; strong
enough to be received on the legendary three quid DM-906 multi-band radio from the local
"Superdrug" store, the DRM on the LF side much weaker than usual.
0759 UTC, 5,898 kHz, "05621 78682 06781" again, also a good signal, S8.

15-Oct-11, Saturday:- 0659 UTC, 5,883 kHz, "Atencion, 10472 87521 78862", strong signal on the S-meter but audio sounded low.
0759 UTC, 5,898 kHz, "10472 87521 78862", as earlier.

16-Oct-11, Sunday:- 0659 UTC - early starts continue - 5,883 kHz, "Atencion, 81152 85711
85352". S9 signal, depth of modulation much better than yesterday. The DRM broadcast signal on the LF side very strong this morning.
0759 UTC, 5,898 kHz, "81152 85711 85352", S8, good audio.

22-Oct-11, Saturday:- 0659 UTC, 5,883 kHz, "Atencion, 33312 41082 05572". S9 signal.
Thought this was going to fire up on the wrong frequency, there was a strong carrier on 5,898 kHz - the frequency used for the 0800z sending - for a few minutes just before the hour
0759 UTC, 5,898 kHz, something a bit different this morning, the 0800z sending did not have the same call-up 5Fs as the 0700z; for some time both transmissions have started up with the same routine. "Atencion, 10651 67821 35781".

23-Oct-11, Sunday:- 0700 UTC, 5,883 kHz, "Atencion, 72582 52331 56052", call-up under way when tuned in just before the hour, into 5Fs 0702z. S9 carrier, audio low.
0800 UTC, 5,883 kHz, on the wrong frequency, not entirely unknown with V02a! "72582 52331 56052", same as earlier. Into 5Fs 0802z. Had a quick tune around to see what else was on and upon returning to this part of the spectrum at around 0806z found the Señorita
from Havana had shifted to the correct frequency, 5,898 kHz.

Others' Logs:

September log:

4028kHz 0129z	02/09[i/p] weak		gil	FRI
0206z	02/09[i/p] weak, I caught late expected 5417 switched to 4028 0208z		gil	FRI
0112z	16/09[...] vweak		gil	FRI
417kHz 0208z	02/09[i/p] fair switched from 4028		gil	FRI
5417kHz 0220z	09/09[] fair		gil	TUE
5883kHz 0701z	04/09[A80071 83871 18331] fair		gil	SUN
0732z	15/09[...] fair		gil	THU
0700z	20/09[A33482 57111 74261] strong		gil	TUE
0700z	22/09[A13231 31411 56712] strong		gil	THU
0700z	24/09[A 11651 56121 51742] Strong QSB3		Hans	SAT
0700z	26/09[] strong, started as SK01 then V02a i/p		gil	MON
0800z	30/09[A11182 28002 07312] strong		gil	FRI
5898kHz 0800z	02/09[A03142 81111 40222] Fair/Strong QSB3		Hans	FRI
0800z	04/09[A80071 83871 18331] fair		gil	SUN
0800z	05/09[A73472 85271 15552] fair		gil	MON
0800z	19/09[A26742 13642 05731] strong		gil	MON
0800z	22/09[A13231 31411 56712] strong		gil	THU
0707z	25/09[...] strong expected 5883, late start, stuck on the digit "uno" repeating then a few chars of M08a back to repeating uno then off		gil	SUN
0800z	25/09[A78551 44482 47451] strong		gil	SUN
0800z	26/09[A88822 43862 80002] strong		gil	MON
6768kHz 0102z	03/09[i/p] fair		gil	SAT
0202z	10/09[] fair		gil	SAT
0428z	12/09[] fair		gil	MON
0111z	24/09[...] strong		gil	SAT
6785kHz 0129z	17/09 i/p [.....,.....,24442] Strong, not on the usual frequency		SC	SAT
6855kHz 0312z	05/09[.87142.] fair		gil	MON
12180kHz 1900z	06/09[] LSB, fair		SC, gil	TUE
1900z	22/09 i/p		SC	THU
13380kHz 2000z	01/09[38001 88861 83482] strong		SC	THU
2000z	06/09[A48532 13812 28871] strong		SC	TUE
2000z	15/09 i/p Strong		SC	THU
2000z	22/09 i/p		SC	THU

October log:

4174kHz 0324z	17/10[] fair		gil	MON
5417kHz 0212z	07/10[i/p] fair		gil	FRI
0225z	21/10[] fair		gil	FRI
5883kHz 0715z	01/10[...] strong		gil	SAT
0700z	02/10[A00151 78141 62762] strong		gil	SUN
0700z	06/10[A44562 67762 35632] strong		gil	THU
0709z	08/10[i/p] fair V02a mixing with SK01		gil	SAT
0700z	13/10[A75631 75451 58341] fair		gil	THU
0712z	15/10[] fair		gil	SAT
0700z	25/10[A50142 18251 12872 LG 22804]		DanAr	TUE
5898kHz 0800z	01/10[A74201 70052 28782] strong		gil	SAT
0800z	15/10[A10472 87521 78862] fair		gil	SAT
6768kHz 0104z	01/10[...] weak		gil	SAT
0428z	03/10[] fair		gil	SUN
6855kHz 0304z	03/10[] fair		gil	SUN
0324z	17/10[] fair		gil	MON
9153kHz 0702z	21/10[] fair gil FRI caught late expected M08a		gil	FRI
12180kHz 1936z	20/10[] fair		gil	THU
13380kHz 2000z	20/10[A17632,34242,53812] strong		SC	THU

V07 [IB]

T writes:

Intercepts, May to mid October, 2011

Starting in May, 2011, I heard for the first time from my location NS V07. This is a station that for one reason or another I have never been able to hear at my home location.
Another California listener on the RadioReference forum heard the station first (May 08, 2011), and I heard it the next week (May 15, 2011).
So far I have only heard it on Sunday mornings.

May, 2011
15/05/2011, 0520, 12182 kHz, USB, V07, YL SS 5f, Callup 511, ID 279, 47 grps

July, 2011
10/07/2011, 0720, 12182 kHz, USB, V07, YL SS 5f, Callup 512, ID 283, 77 grps
17/07/2011, 0720, 12182 kHz, USB, V07, YL SS 5f, Callup 512, Null msg
24/07/2011, 0720, 12182 kHz, USB, V07, YL SS 5f, Callup 512, ID 222, 69 grps
24/07/2011, 0740, 10282 kHz, USB, V07, YL SS 5f, tuned in progress
31/07/2011, 0700, 13582 kHz, USB, V07, YL SS 5f, Callup 512, Null msg
31/07/2011, 0720, 12182 kHz, USB, V07, YL SS 5f, Callup 512, Null msg

August, 2011
07/08/2011, 0500, 14823 kHz, USB, V07, YL SS 5f, tuned in progress
07/08/2011, 0520, 13423 kHz, USB, V07, YL SS 5f, Callup 845, ID 625, 83 grps
07/08/2011, 0540, 11523 kHz, USB, V07, YL SS 5f, Callup 845, ID 625, 83 grps
14/08/2011, 0500, 14823 kHz, USB, V07, YL SS 5f, Callup 845, Null msg
14/08/2011, 0520, 13423 kHz, USB, V07, YL SS 5f, Callup 845, Null msg
21/08/2011, 0500, 14823 kHz, USB, V07, YL SS 5f, Callup 845, ID 711, 71 grps
21/08/2011, 0520, 13423 kHz, USB, V07, YL SS 5f, Callup 845, ID 711, 71 grps
21/08/2011, 0540, 11523 kHz, USB, V07, YL SS 5f, Callup 845, ID 711, 71 grps
28/08/2011, 0500, 14823 kHz, USB, V07, YL SS 5f, Callup 845, Null msg
28/08/2011, 0520, 13423 kHz, USB, V07, YL SS 5f, Callup 845, Null msg

September, 2011
18/09/2011, 0320, 14637 kHz, USB, V07, YL SS 5f, Tuned in progress
18/09/2011, 0340, 12137 kHz, USB, V07, YL SS 5f, Tuned in progress
25/09/2011, 0340, 16037 kHz, USB, V07, YL SS 5f, Callup 661, ID 111, 75 grps
25/09/2011, 0320, 14637 kHz, USB, V07, YL SS 5f, Callup 661, ID 111, 75 grps
25/09/2011, 0340, 12137 kHz, USB, V07, YL SS 5f, Callup 661, ID 111, 75 grps

October, 2011
09/10/2011, 0100, 18074 kHz, USB, V07, YL SS 5f, Tuned to in progress
09/10/2011, 0120, 15874 kHz, USB, V07, YL SS 5f, Tuned to in progress
09/10/2011, 0140, 14374 kHz, USB, V07, YL SS 5f, Callup 883, ID 852, 89 grps

The station was also received by another listener in a few time slots that I did not receive, particularly before I started looking closely at the station.
These receptions fill a couple of holes in the table below, including the month of June, since I did not receive it at all that month.

Table
V07 Observations May to October of 2011.
http://token_radio.home.mchsi.com/V07_Obs_Table_V1.jpg

Observations

As I said in previous posts, it looks as if V07 has changed habits a bit.
Without doubt it is still V07, the voice, format, actions are all consistent.
But the habits have apparently changed from the time it was regularly reported in Europe until now. Pardon me if I repeat some of the things that have changed, and point out a few things I may not have mentioned or known before.

In the past V07 was best heard, or at least most often reported as "strong" in Europe. It is now heard and very strong in the western United States and in the Northern Pacific Rim, specifically Japan.

In the past V07 was normally reported in AM mode, now it is seemingly in USB exclusively.

While many people thought V07 might be transmitted from a European location in the past it now appears to be more probable in maybe Asiatic Russia or possibly even Pacific Russia.
While a DF cut from a single location is not a good data point the station appears to be on a bearing of about 335 from me, again supporting far eastern Russia, if in Russia at all.

In the past V07 was heard two days a week, it is now only a single day per week.

In the past V07 started the hour at a low frequency and moved up in frequency as the hour went on. It now starts high and shifts lower as the hour progresses.

In the past V07 operated in the 0600 hour slot year round, adjusting its frequencies to compromise for propagation changes across the year. It now changes hour of operation almost monthly and still changes frequency.
So far it has transmitted in the odd hours between 0100 and 0700, never using the even hours.

Have I looked at minutia too closely? Or does the station really, in other people's opinions, appear to have shifted a significant number of habits?

T!
Mojave Desert, California, USA

V13 [0]
September:

9725kHz0600z	20/09 V13 USB New Star. Flute tune, followed by coded messages	Ary	MON

October:

7580kHz1300z	14/10	T	FRI
13200kHz1300z	28/10 good sigs, ending 1345z	RNGB	FRI

V24

6215kHz1510z 27/10 (carrier remained on)	AG	THU

## V30

No reports

POLYTONES

In keeping with Ian's efforts to bring a no cost polytone decoder to the listener's armoury [have you seen the sky-high senseless prices of other products?] we take pleasure in illustrating the excellent product from Ian's 'Rivet':

Rivet (Build 5) by Ian Wraith
21:32:33 Loading file C:\Scan320\WaveFiles\11576_092211_1900.wav
21:32:35 XPA High Start Tone Found (1270 Hz)
21:34:05 High sync tone found at position 1323085
21:34:05 Symbol timing found at position 1325610
Block Sync
4444444444
Block Sync
542 542 542 1 542 542 542 1 542 542 542 1
Block Sync
4444444444
Block Sync
6
Message Start
00583 00113 03647 19981 50583 37335 55440 05291 78894 55058 76887 83741 43849 04233 89081
09970 53568 74502 13882 04437 10948 46043 39769 22510 44360 95462 04661 72882 91038 71959
81899 79331 57684 52315 38835 06154 23959 29628 69178 87145 62469 38610 21580 02405 85623
05473 55613 81111 94565 41449 00303 84437 12101 70491 86834 18207 49179 11786 83774 67509
09028 89165 90644 12388
Block Sync
06938 76394 17174 58154 08606 49406 28529 83483 02013 80016 69701 95689 29421 40521 96372
09409 69978 19002 08583 11738 48520 28131 30303 63112 25741 33084 62460 36307 03065 34319
19914 27266 94914 03307 64094 68682 00087 55152 73921 30557 77861 17855 05201 68005 85884
62382 54330 93401 96673 47196 44049 34730
21:34:18 XPA Decode Complete
21:34:57 WAV file loaded and analysis complete.
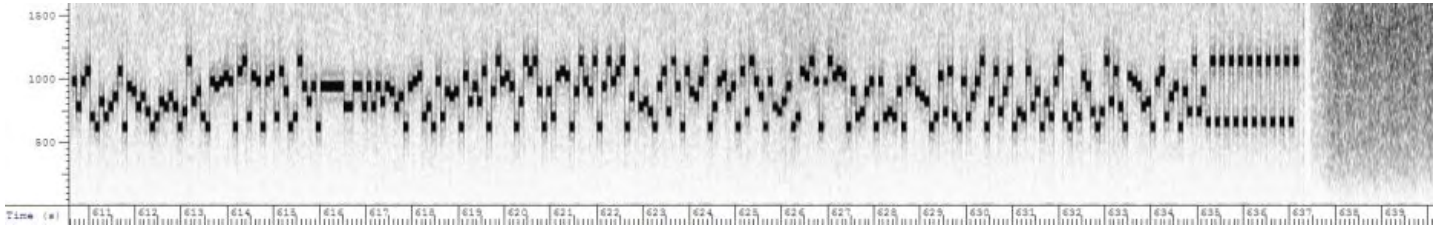
Rivet 7 works just as well and recently faultlessly decoded the XPA b usually very long message 5762kHz 0440z 11/10 799 1 00723 00795 … 04452, this sonogram [above] illustrating the length, note the end time value 637s – or 10m37s.

XPA2 is a similar output with only one Block Sync to be seen and Rivet easily converts those tones to numerals as well:

6992kHz1930z   18/10[06160 00001 00000 10140]
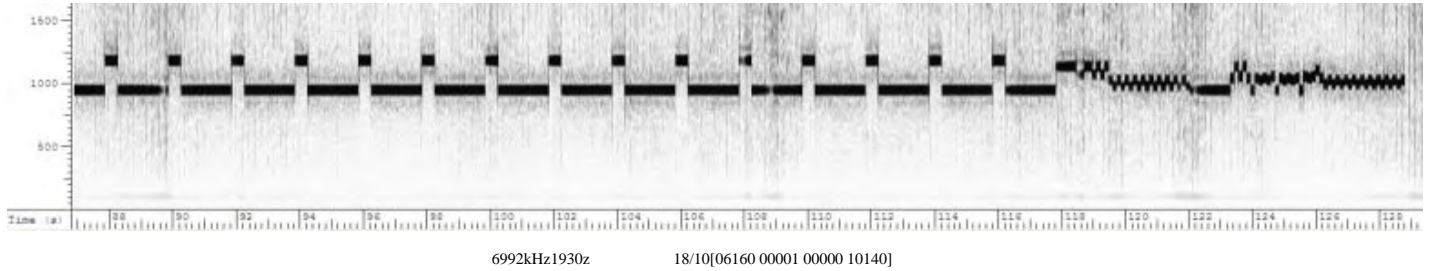
Rivet (Build 7) by Ian Wraith
8:06:27 AM Loading file D:\scan320\WaveFiles\6992_101811_1930.wav
8:06:37 AM XPA2 Start Tones Found (correcting by 20 Hz)
8:08:13 AM Symbol timing found at position 1354658

UNID 988 Hz at 1374091
06160 00001 00000 10140
8:08:13 AM XPA2 Decode Complete

Please note that Ian has now provided a 20bd reader for XPA in 'Rivet Build 8,' and very good it is too.

[*Thanks Ian*]

More XPA
10bd unless stated otherwise.
An XPA2 was found by Daniel, Argentina on 12127kHz:

12127kHz1110z 01/10[09419 00145 36232 03643]   DanAr   SAT

Following that intercept up I entered the wrong time into my automated system and intercepted:

XPA [Believed to be a split freq sending]

Note third admin group starts with 00 on 10/10

12127kHz1410z	02/10[253 1 05279 00109 36289 51414] Strong	10bd	(3m32s)	PLdn	SUN
1410z	08/10[253 1 04277 00148 01468 12630] Very strong	**20bd**		PLdn	SAT
1410z	10/10[253 1 08269 00149 00245 45233] Strong, QRM2	10bd	(3m57s)	PLdn	MON
1410z	11/10[253 1 08733 00112 00395 05721] Very strong	**20bd**	(2m48s)	PLdn	TUE
1410z	15/10 [253 1 02495 00144 52265 17054] Fair	10bd	(3m54s)	PLdn	SAT
14696kHz1400z	17/10[253 1 03218 nnnnn 54327 50000] Very strong – poor recording	**20bd**		PLdn	MON
12127kHz1410z	17/10[253 1 03218 nnnnn 54327 50000] Very strong – poor recording	**20bd**		PLdn	MON
14696kHz1400z	20/10[253 1 03421 00135 48664 06466]	**20bd**		RNGB	THU
12127kHz1410z	20/10[253 1 03421 00135 48664 06466]	**20bd**		RNGB	THU
14503kHz1500z	20/10[831 1 03421 00135 48664 06466]	**20bd**		RNGB	THU
10337kHz1523z	20/10 progress at 1523 ends with 06446	**20bd**		RNGB	THU
16324kHz1300z	11/10[253 1 08733 00112 00395 05721]	**20bd**		RNGB	TUE
13368kHz1310z	11/10[253 1 08733 00112 00395 05721]	**20bd**		RNGB	TUE
10736kHz1320z	11/10[253 1 08733 00112 00395 05721]	**20bd**		RNGB	TUE
14503kHz1500z	19/10[831 1 07903 00143 06223 31233]			IW	WED

and by Rivet :
Block Sync
4444444444
Block Sync
831 831 831 1 831 831 831 1 831 831 831 1
Block Sync
4444444444
Block Sync
6
Message Start
07903 00143 06223 73794 28033 44668 62529 14036 34823 52754 84207
03554 07807 19640 97674
92115 18041 79997 07541 64549 54312 98891 79952 40325 90929 91558
72967 22198 03644 28538
27323 50516 15396 07674 12434 99733 00207 73444 52829 50032 54474
59310 19811 33443 24726
16992 74387 06353 21864 37563 95082 62652 21533 46078 94469 13089
74963 84956 88267 22813
95032 90910 81793 46102
Block Sync
65302 97434 34988 07584 48844 40502 48923 34720 82946 89202 15444
26398 39242 42878 30007
06917 30388 88584 09117 13984 34215 85327 12693 18237 95572 33682
47193 32834 58231 29560
44292 84498 90608 73307 94123 12471 66793 24519 73086 70287 65401
79350 73104 78523 84365
75985 88223 58659 35699 72719 57484 12780 20654 42341 22713 84955
00660 78479 91328 60573
89504 70144 18982 50532
Block Sync
27294 44883 18859 60516 00272 48710 84573349697 42253 76607 12379
91572 90565 55596 70156 72561
21887 31233

XPA2

September:

Sun/Mon/Wed

6802kHz0101z	11/09[02969 00085 63916 00272] Strong	(3m16s)	GN	SUN
6802kHz0100z	19/09[09645 00139 73798 73207] Very strong	(3m58s)	PLdn	MON
6802kHz0100z	28/09[00851 00174 92987 70550] Very strong	(4m23s)	PLdn	WED

Tue/Thu

8068kHz1930z	01/09[01790 00001 00000 10140] Very strong	(2m11s)	PLdn	THU
6846kHz1950z	01/09[01790 00001 00000 10140] Very strong	(2m11s)	PLdn	THU
5846kHz2010z	01/09[01790 00001 00000 10140] Very strong	(2m11s)	PLdn	THU
8068kHz1930z	06/09[00573 00197 44099 00463] Very strong	(4m42s)	PLdn	TUE
6846kHz1950z	06/09[00573 00197 44099 00463] Strong	(4m42s)	PLdn	THU
5846kHz2010z	06/09[00573 00197 44099 00463] Very strong	(4m42s)	PLdn	TUE
8068kHz1930z	08/09[00573 00197 44099 00463] Very strong	(4m42s)	PLdn	THU
6846kHz1950z	08/09[00573 00197 44099 00463] Very strong	(4m42s)	PLdn	THU
5846kHz2010z	08/09[00573 00197 44099 00463] Very strong	(4m42s)	PLdn	THU
8068kHz1930z	13/09[01790 00001 00000 10140] Very strong	(2m11s)	PLdn	TUE
6846kHz1950z	13/09[01790 00001 00000 10140] Very strong	(2m11s)	PLdn	TUE
5846kHz2010z	13/09[01790 00001 00000 10140] Very strong	(2m11s)	PLdn	TUE
8068kHz1930z	15/09[01790 00001 00000 10140] Very strong	(2m11s)	BR, Gert	THU
6846kHz1950z	15/09[01790 00001 00000 10140] Very strong	(2m11s)	BR, Gert	THU
5846kHz2010z	15/09[01790 00001 00000 10140] Very strong	(2m11s)	BR, Gert	THU
8068kHz 1930z	20/09[00922 00175 05815 60017] Very strong	(4m24s)	PLdn	TUE
6846kHz 1950z	20/09[00922 00175 05815 60017] Very strong	(4m24s)	PLdn	TUE
5846kHz 2010z	20/09[00922 00175 05815 60017] Very strong	(4m24s)	PLdn	TUE
8068kHz1930z	22/09[00212 00149 68252 66551] Very strong	(4m05s)	PLdn	THU
6846kHz1950z	22/09[00212 00149 68252 66551] Very strong (Some distortion present – poss local QRM)	(4m05s)	PLdn	THU
5846kHz2010z	22/09[00212 00149 68252 66551] Very strong	(4m05s)	PLdn	THU
8068kHz1930z	27/09[01791 00001 00000 10140] Very strong	(2m11s)	PLdn	TUE
6846kHz1950z	27/09[01791 00001 00000 10140] Very strong	(2m11s)	PLdn	TUE
5846kHz2010z	27/09[01791 00001 00000 10140] Very strong	(2m11s)	PLdn	TUE
8068kHz1930z	29/09[06160 00001 00000 10140] Very strong	(2m11s)	PLdn	THU
6846kHz1950z	29/09[06160 00001 00000 10140] Very strong	(2m11s)	PLdn	THU
5846kHz2010z	29/09[06160 00001 00000 10140] Very strong	(2m11s)	PLdn	THU

Thu

6967kHz0410z	29/09[03399 00098 82619 00207] Strong,	*0420z searched for, not found*	(3m26s)	PLdn	THU

October 2011:

Daily [mid-month cessation]

14696kHz1400z	12/10[06433 00123 78912 03444]Very strong	(3m22s)	PLdn	WED
12127kHz1410z	12/10[06433 00123 78912 03444]Very strong	(3m22s)	PLdn	WED

Sun/Mon/Tue/Wed

6983kHz 0100z	10/10 Strong - mistuned	(2m50s)	PLdn	MON
5743kHz 0100z	10/10 Strong - mistuned	(2m50s)	PLdn	MON
5162kHz 0100z	10/10 Strong - mistuned	(2m50s)	PLdn	MON
6983kHz0100z	18/10 Strong - mistuned	(3m48s)	PLdn	TUE
5743kHz0110z	18/10 Strong - mistuned	(3m48s)	PLdn	TUE
5162kHz0120z	18/10 Strong - mistuned	(3m48s)	PLdn	TUE

Frequencies corrected:

6982kHz0100z	26/10[00768 00094 79792 01504] Very strong	(3m23s)	PLdn	WED
5742kHz0110z	26/10[00768 00094 79792 01504] Very strong	(3m23s)	PLdn	WED
5161kHz0120z	26/10[00768 00094 79792 01504] Very strong	(3m23s)	PLdn	WED
14538kHz1520z	04/10[00995 00061 51641 02116] Very strong	(2m57s)	PLdn	TUE
13538kHz1540z	04/10[00995 00061 51641 02116] Fair	(2m57s)	PLdn	TUE
14538kHz1520z	11/10[01813 00001 00000 10140] Strong	(2m11s)	PLdn	TUE
13538kHz1540z	11/10[01813 00001 00000 10140] Strong	(2m11s)	PLdn	TUE
14538kHz1520z	16/10[00334 00079 20170 LG11666] 1523z Very strong		Danix	SUN
13538kHz1540z	16/10[00334 00079 20170 LG11666] 1543z Very strong		Danix	SUN
14358kHz1520z	23/10[00418 00093 87180 15263]Very strong	(3m22s)	PLdn	SUN

Tue/Thu

	1930/1950z NRH, searched			
5092kHz2010z	04/10[00678 00133 10507 57523] Very strong, not on expected fre	(3m54s)	PLdn	TUE
6992kHz 1930z	06/10[00678 00133 10507 57523] Very strong	(3m54s)	H-FD, PLdn	THU
5892kHz 1950z	06/10[00678 00133 10507 57523] Very strong	(3m54s)	H-FD, PLdn	THU
5092kHz 2010z	06/10[00678 00133 10507 57523] Very strong	(3m54s)	H-FD, PLdn	THU
6992kHz1930z	11/10[06160 00001 00000 10140] Very strong	(2m11s)	PLdn	TUE
5892kHz1950z	11/10[06160 00001 00000 10140] Very strong	(2m11s)	PLdn	TUE
5092kHz2010z	11/10[06160 00001 00000 10140] Very strong	(2m11s)	PLdn	TUE
6992kHz1930z	13/10[06160 00001 00000 10140] Very strong	(2m11s)	PLdn	THU
5892kHz1950z	13/10[06160 00001 00000 10140] Very strong	(2m11s)	PLdn	THU
5092kHz2010z	13/10[06160 00001 00000 10140] Very strong	(2m11s)	PLdn	THU
6992kHz1930z	18/10[06160 00001 00000 10140] Very strong	(2m11s)	PLdn	TUE
5892kHz1950z	18/10[06160 00001 00000 10140] Very strong	(2m11s)	PLdn	TUE
5092kHz2010z	18/10[06160 00001 00000 10140] Very strong	(2m11s)	PLdn	TUE
6992kHz1930z	20/10[08567 00001 00000 10140] Very strong	(2m11s)	PLdn	THU
5892kHz1950z	20/10[08567 00001 00000 10140] Very strong	(2m11s)	PLdn	THU
5092kHz2010z	20/10[08567 00001 00000 10140] Very strong	(2m11s)	PLdn	THU
6992kHz1930z	25/10[06160 00001 00000 10140] Very strong	(2m11s)	PLdn	TUE
5892kHz1950z	25/10[06160 00001 00000 10140] Very strong	(2m11s)	PLdn	TUE
5092kHz2010z	25/10[06160 00001 00000 10140] Very strong	(2m11s)	PLdn	TUE
6992kHz1930z	27/10[06160 00001 00000 10140] Very strong	(2m11s)	PLdn	THU
5892kHz1950z	27/10[06160 00001 00000 10140] Very strong	(2m11s)	PLdn	THU
5092kHz2010z	27/10[06160 00001 00000 10140] Very strong	(2m11s)	PLdn	THU

Tue

7735kHz 0300z	11/10 Very strong - mistuned	(3m37s)	PLdn	TUE
6967kHz 0310z	11/10 Very strong - mistuned	(3m37s)	PLdn	TUE
5742kHz 0320z	11/10 Very strong - mistuned	(3m37s)	PLdn	TUE

Sat

12127kHz1110z	01/10[09419 00145 36232 03643]		DanAr	SAT

Not yet known

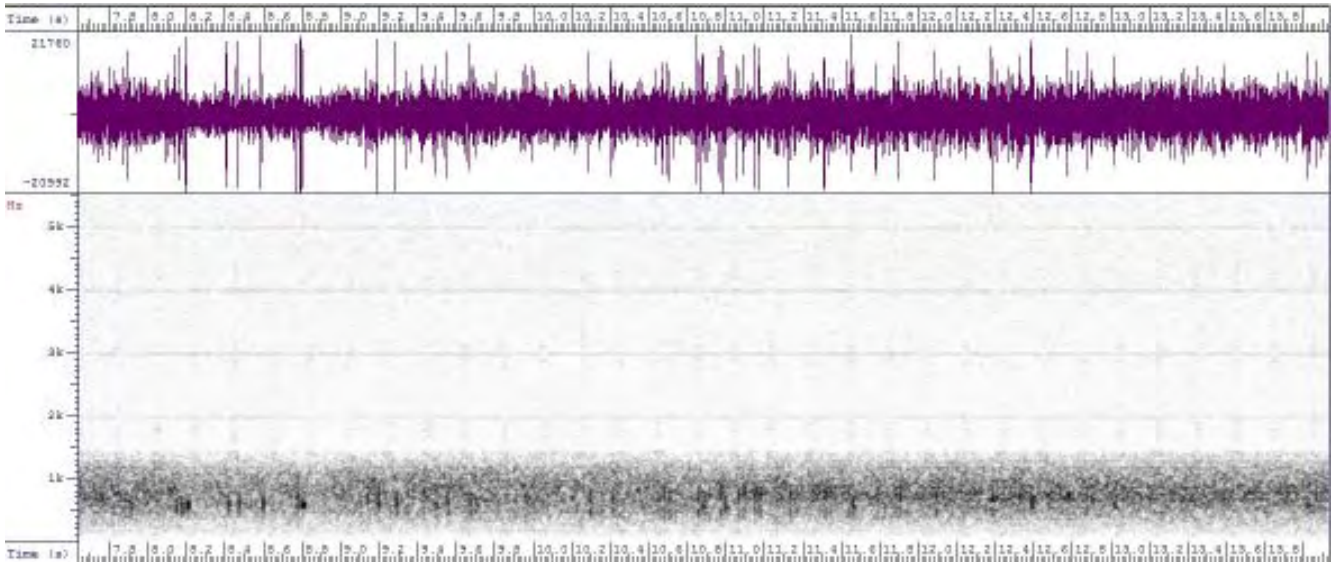|						
14734kHz1005z	20/01[-5058 00039 97221 17346]				IW	THU

by Rivet:
05058 00039 97221 94318 93234 51603 72355 12641 07183 13054 67612
74852 90911 34408 96790
51628 79374 01529 56929 29153 94138 50814 48913 01871 97543 10878
62004 30180 21533 27261
36985 40393 75887 72681 58641 75934 37564 83092 62527 61310 62393 17346

Noise Stations

XC [Crackle]

Not heard for some considerable time this came to notice whilst tuning for M01 on the same freq

6261kHz	1510z	08/10	The Crackle	Not heard after 1700z 08/10	BR, PLdn	SAT

Looking at the sonogram on the previous page it is easy to see the random nature of this signal.

A new sound sample has been placed on Group in the Files section.

XM

6940kHz0043z	27/10[Backwards Music Station] Fair QRN3 QSB2	Spectre	THU
6940kHz0225z	27/10[Backwards Music Station] Fair QRN3 QSB2	Spectre	THU
6940kHz1846z	27/10[Backwards Music Station] Fair QRN3 QSB2	Spectre	THU
6940kHz2142z	27/10[Backwards Music Station] Fair QRN3 QSB2	Spectre	THU
6940kHz1433z	28/10[Backwards Music Station] Weak QRN3 QSB2	Spectre	FRI
6940kHz1800z	28/10[Backwards Music Station] Fair QRN3 QSB2	Spectre	FRI
6940kHz0005z	29/10[Backwards Music Station] Fair QRN3 QSB2	Spectre	SAT
6940kHz0200z	29/10[Backwards Music Station QRT] 0203z Fair QRN3 QSB2	Spectre	SAT
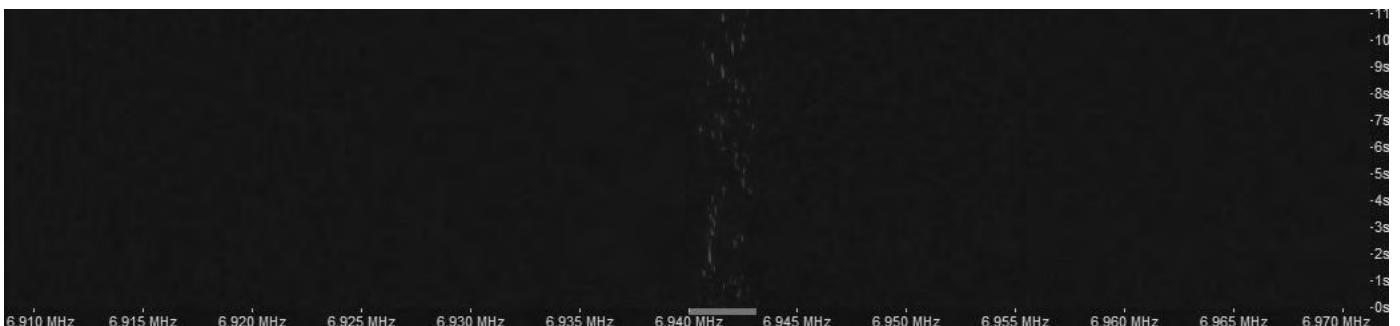
Spectrogram shewing XM transmission as so aptly intercepted by Spectre

6940kHz 0043z	27/10 [Backwards Music Station] Fair QRN3 QSB2	Spectre	THU
0225z	27/10 [Backwards Music Station] Fair QRN3 QSB2	Spectre	THU
1846z	27/10 [Backwards Music Station] Fair QRN3 QSB2	Spectre	THU
2142z	27/10 [Backwards Music Station] Fair QRN3 QSB2	Spectre	THU
1433z	28/10 [Backwards Music Station] Weak QRN3 QSB2	Spectre	FRI
1800z	28/10 [Backwards Music Station] Fair QRN3 QSB2	Spectre	FRI
0005z	29/10 [Backwards Music Station] Fair QRN3 QSB2	Spectre	SAT
0200z	29/10 [Backwards Music Station QRT] 0203z Fair QRN3 QSB2	Spectre	SAT

XSL

September

6250kHz 1300z	29/09 USB About S1, not strong after sunrise	Zack	THU
8313kHz 1300z	29/09 USB About S3 here	Zack	THU
8588kHz 1300z	29/09 USB About S3 here	Zack	THU
8703kHz 1949z	09/09 [I.P.Japanese Slot Machine] Weak QRN3 QSB3 (Note: heard across Europe and UK.)	Spectre	FRI

October

6417.5kHz 1927z	12/10 [tfc and idling periods]	FN	WED
6445.5kHz 1925z	12/10 [tfc]	FN	WED
8313.5kHz 1928z	12/10 [tfc]	FN	WED
6250kHz2058z	16/10[Japanese Slot Machine] Very Weak QRN3 QSB3	Spectre	SUN
6250kHz1936z	17/10[Japanese Slot Machine] Weak QRN3 QSB3	Spectre	MON
6250kHz2006z	23/10[Japanese Slot Machine] Weak QRN2 QSB3	Spectre	SUN
6250kHz1933z	24/10[Japanese Slot machine] Very Weak QRN3 QSB3	Spectre	MON
6250kHz2042z	25/10[Japanese Slot Machine] Weak QRN2 QSB3	Spectre	TUE
6250kHz2203z	26/10[Japanese Slot Machine] Very Weak QRN3 QSB3	Spectre	WED
6417kHz2055z	16/10[Japanese Slot Machine] Very Weak QRN3 QSB3	Spectre	SUN
6417kHz1935z	17/10[Japanese Slot Machine] Weak QRN3 QSB2	Spectre	MON
6417kHz2005z	23/10[Japanese Slot Machine] Very Weak QRN2 QSB3	Spectre	SUN
6417kHz1932z	24/10[Japanese Slot Machine] Very Weak QRN3 QSB3	Spectre	MON
6417kHz2141z	25/10[Japanese Slot Machine] Weak QRN3 QSB3	Spectre	TUE
6417kHz2204z	26/10[Japanese Slot Machine] Weak QRN3 QSB3	Spectre	WED
6445kHz2056z	16/10[Japanese Slot Machine] Very Weak QRN3 QSB3	Spectre	SUN
6445kHz1936z	17/10[Japanese Slot Machine] Weak QRN3 QSB3	Spectre	MON
6445kHz2004z	23/10[Japanese Slot Machine] Weak QRN2 QSB4	Spectre	SUN
6445kHz2044z	25/10[Japanese Slot Machine] Weak QRN3 QSB3	Spectre	TUE
6445kHz2205z	26/10[Japanese Slot Machine] Very Weak QRN3 QSB3	Spectre	WED

Digital, Incursions and Unexplained Signals

In this months column we are going to take a closer look at one of the modes mentioned last time. The mode is commonly called CROWD36 and is believed to be used by the Russian diplomatic service. I suspected that there were some regular schedules for this mode and am pleased to announce that since I requested help from the group that a couple have been identified. These are as follows ..

Frequency (in KHz)	Start Time	Days
14651	06:45	Daily
14656	13:00	Weekdays Only

Note that the timing of these transmissions is variable by anything up to 10 minutes before or after the times listed above. The transmissions always consist of an initial burst of CROWD36 lasting around a second followed a minute or so later by the main transmission which can last anything between 2 minutes and 20 minutes depending on the length of the message being sent. The sending of the main message doesn't always go smoothly. Several times I have seen what appear to be technical problems with transmissions ending prematurely , suddenly moving frequency by 5 KHz and stopping for for anything between a second and a minute before restarting.

 I have been busy for the last couple of months trying to add CROWD36 decoding to the *Rivet* software decoder. Progress has been much slower than I initially expected partly due to the fact that much of the information about CROWD36 both online and in books is sadly out of date. Initially I had been working on the understanding that the system had 36 possible tones but that 4 of these (tones 1,12,24 and 36) weren't used. If you look at a audio spectral analysis of an old CROWD36 audio sample such as the one overleaf ..
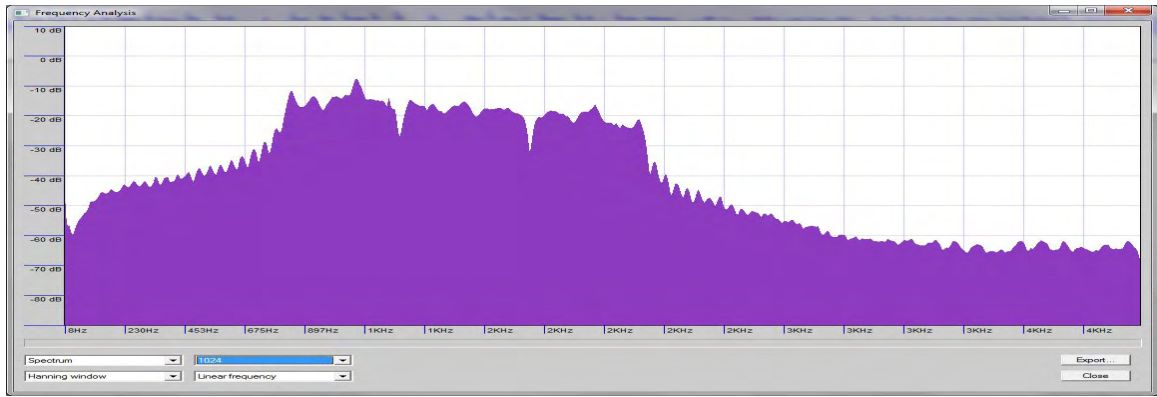
You can clearly seeing two (tones 12 and 24) of the missing tones. However an audio spectrum analysis of a recent CROWD36 recording ..
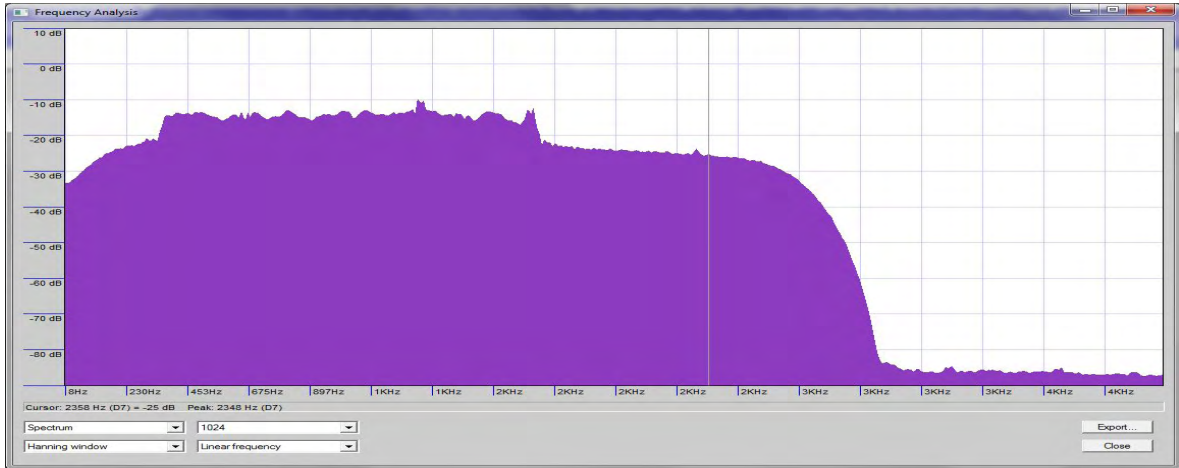
Shows no missing tones. This made matching tone numbers to a published CROWD36 alphabet very difficult and none of the text recovered from my experimental decoders made any sense. Enlightenment came in the form of an excellent post to the UDXF mailing list by Leif Dehio who pointed out that the version of CROWD36 in use now only uses 34 tones each spaced 40 Hz apart. When I changed the program to take this into account I started to see a more sensible output as I will show you later.
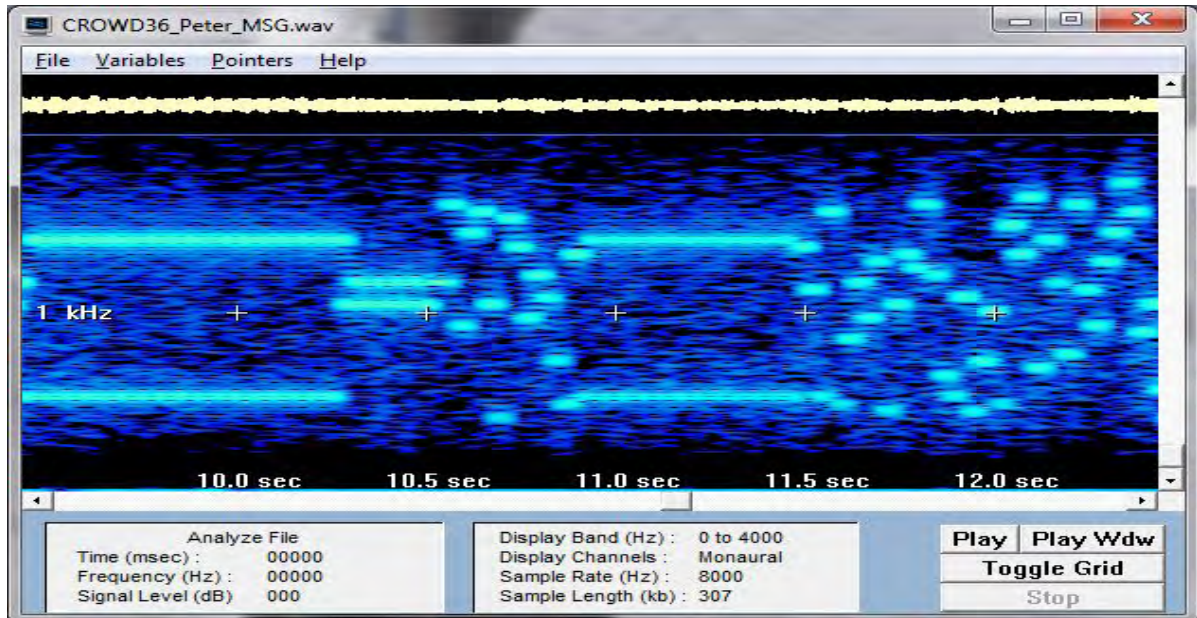
One other problem I am having with CROWD36 is the changing frequency of the synchronisation tones. These are important as Rivet uses them to calibrate itself so it can cope with the receiver not being exactly tuned to a CROWD36 broadcast. So it looks for the synchronisation tones (shown above in a Spectrogram) and measures the frequency of the high one and uses this to decide which audio frequency maps to which tone. However as I have examined more broadcasts I have found that this high synchronisation tone can be almost any tone from tone 23 to tone 32. Being even a single tone out makes a huge difference to decoded output of the program. As an example if I decode a brief start burst that comes before each transmission. If I decide the high sync tone is tone 31 the message decodes as ..

BABABABABABABABABABABABABABABABABAF<*22>YXSQJCTUQ<fs>)+9
EXMQ FQHLNKDCBOYGUIAS<*10><fs>2+ 1
(incidentally group member GN has pointed out that Guias is Portugese for guide although we have yet to work if this word appearing is just chance)

but if I decide the high sync tone is tone 32 it decodes as ..

RPRPRPRPRPRPRPRPRPRPRPRPRPRP<fs> :29Щ<*10>
FLQM<*22>UNZKWYQB<fs>Щ<ls><*22><*30> I
RNCTLHPOGMVUBQ

However it is meant to decode the header is interesting since it is exactly the same in each CROWD36 message I have received so far. I had expected it would contain at least some message information (e.g the length of the message or date) so was surprised. The information in the header is repeated many times at the start and end of the main message also. Its possible that the CROWD36 schedules I have found so far all belong to the same circuit so all have the same header. I am looking for more regular CROWD36 schedules to see if I can find any with a different header. I was hoping these headers would contain the 11177, 11166 and 11144 identifiers that commonly appear in Russian Diplomatic communications however I have yet to see them in any of the messages I have looked at so far.

Yet another mystery of CROWD36 is how little actual message there appears in each transmission. It appears 80% or so of the message consists either of what is in the header repeating or other what appear to be meaningless phrases repeating. It has been suggested that this is related to the fact that all (or perhaps some) CROWD36 transmissions are ARQ (Automatic Repeat reQuest). In this mode of transmission you would have one frequency being used by Moscow Centre to send the message to an embassy and at the same time the embassy transmits back to Moscow Centre on a different frequency. The embassy modem error checks the incoming data received from Moscow Centre and if it finds an error transmits a request for the bad data to be retransmitted. From time to time listeners come across CROWD36 stations which appear to idle for long periods. Its possible these are the embassy side frequencies of the radio link.

Just to complicate things a little further there is another (possibly newer) CROWD36 variant around which starts the transmission using CROWD36 MFSK but then the transmission changes and uses the much more modern OFDM (Orthagonal Frequency Division Modulation) to pass data at a higher speed before returning to CROWD36 MFSK at the end of the transmission. You can see the transition between MFSK and OFDM in the spectrogram overleaf ..

I have yet to find any fixed schedules for the this mode yet however *(if you haven't come across OFDM don't worry I will be explaining the basics of it in a future desk report).*

In addition it appears the name CROWD36 is a misnomer as several experienced monitors report that the mode should be called Serdolik 34 tone MFSK where Serdolik is the Russian name of the communications system. However even though I know its incorrect I'm going to stick with calling it CROWD36 for now to avoid confusion. If we make progress with decoding it and it looks like the mode will be of interest to E2K members I shall consult with the groups moderators regarding renaming it.

I had hoped that this desk report would be reporting progress with CROWD36 explaining the basics contents of the messages being transmitted and how the latest version of Rivet would allow all interested members to monitor this mode. Sadly this isn't the case but I remain convinced that much of the content of CROWD36 messages can be decoded in theory. We need however to understand the tone to alphabet mapping system in use by the variants of the mode in use now and probably the error correction method in use as well. To do this we need more traffic to examine and for that we need to find more regular schedules. I would urge all interested members to post their CROWD36 logs to the mailing list so we can work on this as a group.

PoSW's Items of interest in the media:-

There's a riot going on; well, there was in London a few weeks back. Some of us were surprised that there hadn't been one before, but this particular fracas started with a passenger in a cab in the Tottenham district of north London being shot by the police, he was suspected of being armed, said to have connections with the wonderful world of drug dealing, a growth industry in the UK, and events just spiralled from there. The police in full riot gear seemed just content to stand on one side and let the rioters burn and loot to their hearts content for quite some time. Interesting how all sorts of rumours start to circulate in these situations.

Croydon burns! View of the riot from PLdn's shack window.

One story was that the army were going to be brought in; it was even stated, completely falsely, that trucks full of soldiers had been seen parked up side streets waiting for the order to be given to get stuck in.

If the Government were to deploy the army in this kind of situation it would instantly change the public's view on the armed forces. In Britain, the army is held in high regard partly because unlike in most Continental European countries, it has never been deployed against the civilian population - setting aside the special case of Northern Ireland and the events during a dock strike in the late 1940's when the then Labour Government used conscript soldiers to break the strike; but they were only used as manual labour to unload strike-bound cargoes of foodstuffs, not to defeat striking workers with rifle-butt and bayonet.

What is reported to be true is that the Government have procured a couple of water-cannon vehicles which are snugly holed up somewhere in the Greater London area ready to be wheeled out in the event of more trouble, which will be a first for the UK mainland.

It has also been said that under the provisions of one or other of the treaties with the European Union which successive UK administrations have signed, the government have the option to request riot police to be brought in from other member countries. If that were to happen, rioters would no doubt notice the difference between British police officers, still recognisable as Sir Robert Peel's "Civilians in uniform", and the para-military Gendarmes of the Napoleonic system of mainland Europe.

While the fall-out from the riots was still all around, I noted that the opportunity was taken to quietly release one of the Members of Parliament from his short stay in prison where he had been sent following his conviction for falsifying his expenses. Another of their number was let out a few weeks later. The *Metro* newspaper of 21-September had a short item headlined, "Expenses fiddling minister is freed" and says, "Former environment minister Elliot Morley was released from jail yesterday after serving a quarter of his sentence for parliamentary expenses fraud. The 59 year old had been jailed for 16 months for fiddling £30,000 in claims."

Great to see that at least some of the New Labour mob get a little bit of comeuppance!

They had such a low opinion of us ordinary Brits that they wanted us all to be photographed, fingerprinted, our DNA put on file and be required to carry a smart chip identity card at all times. The general view of the Labour party with regard to the common people is that we are all guilty of something, its just that we haven't been tried and convicted for it yet and so we must all be treated as criminals. I bet old Elliot was always "on message" and would have been able to come up with a dozen different reasons why we must all be made to carry our ID cards upon pain of a £1,000 fine if we didn't. And lo, it came to pass that Elliot saw the inside of a prison before any of us! I hope that now he has a criminal record he will most definitely be an "ex-member" of Parliament and that he will be disqualified from taking up lucritive employment on the board of any of the companies with close links to Government projects, as so many of them have done.

By the way, it was not made clear if Convict Morley was made to repay the 30 grand he obtained by fraud; if he didn't than he has got himself the cost of a fairly decent new car!

Nazi war criminals - is there one living down your street? If there is, he must be getting on in years! Nevertheless, they are still being sought, according to a piece in the *Metro* of 6-October. "Death camp suspects in new inquiry" is the headline, "Prosecutors have reopened hundreds of dormant investigations into Nazi death-camp guards. The move by German lawyers follows the conviction of John Demjanjuk, a guard at Sobibor camp, without direct evidence he had taken part in a specific killing. Kurt Schrimm, of the German prosecutors' office, said up to 1,000 suspects could de involved in a new investigation. Demjanjuk, 91, was imprisoned for five years in May for helping to kill 28,000 Jews at the camp in Poland during World War II. He has been released to await an appeal".

A bit late in the day to go after these old geezers, I would have thought. The question is, why weren't they brought to justice at some time in the past sixty years?

I suspect that the answer is that for most of that time the Soviet Union was regarded as a threat and these former Nazi types were keen to take up a career killing communists. Some of the most despicable individuals were from countries such as Latvia, Lithuania, Estonia and Ukraine and fought for the Nazi regime on the Eastern Front. After the war, considerable numbers of them were allowed to settle in the United Kingdom. With the beginning of the Cold War it was thought that a third world war with Soviet Russia would break out by about 1949, and who better to fight against Russia than those who had been fighting them from 1941 to 1945. Britain's Foreign Secretary of the time, Ernest Bevin, is said to have hated Russians, Communists and Jews in no particular order and believed that the 1917 Russian Revolution was a Jewish plot to undermine the British Empire. He is said to have personally welcomed many ex-Nazis to the UK, thanked them for having killed so many Russians and expressed the hope that they would soon have the opportunity to kill many more on behalf of His Majesty's Government. He was a Labour Party politician, by the way.

Spy story with a difference:- we don't usually associate Mongolia with the world of spying but a short piece in the "*i*" newspaper, a condensed version of the more weighty *Independent* of 30-July under the heading of "Espionage" said, "UK to extradite spy master to Germany. A Mongolian spy chief has lost his appeal against extradition from the UK to Germany. Bat Khurts is said to have been involved in the abduction from Germany of Enkhbat Damiran, who was being sought in connection with the murder of a Mongolian government official."

Another one bites the dust:- the overthrow of the Gaddafi regime in Libya and the reported death of the Colonel is being regarded as the end of Nato's efforts in that country.

Prime Minister Cameron is feeling pleased with himself and his popularity will no doubt soar in this here United Kingdom if, as has been suggested, oil production in Libya resumes its former level. Both Britain and France as the main participants in the enterprise are expecting pay-back in the form of lots of Libyan oil. There is talk that the cost of petrol in the UK could come down by five pence a litre. Yeah, right!
Others have predicted that far from being over, the trouble in Libya is only just beginning as the various factions fight amongst themselves for control of that country. Having effectively backed one side in a Libyan civil war, Britain and France might soon have to decide who they are going to support with their air power in the next round of fighting.

At least poor old Gaddafi is out of it all, the one time "Godfather of terror" who had apparently been rehabilitated and reconciled with the West before the recent unpleasantness began - didn't he receive a visit from Mr Tony Blair not so long ago? I am sure that a lot of people in high places in the UK are relieved that Gaddafi is dead. The last thing they wanted was the Colonel standing in the dock of an international court telling the world about all the deals for weaponry and equipment to suppress his own people sold to him by what he thought were his new friends in the West.

Thanks Peter, your Items of Interest has been missed.

Now onto other news items

Security | 22.10.2011
Suspected Russian spies arrested in Germany
http://www.dw-world.de/dw/article/0,,15479857,00.html

Federal prosecutors say two people were arrested
Special police units in Germany have arrested two suspected spies who are believed to have been active for 20 years. The married couple are said to have worked for the Russian Foreign Intelligence Service.

Germany's federal prosecutor's office has revealed that special police units on Tuesday arrested two people on suspicion of operating as spies in Germany for an unspecified foreign intelligence service.

It has since been confirmed that the two people - a married couple - were working for the Russian Foreign Intelligence Service (SVR) and had been active in Germany for more than 20 years.

Two weekly German news magazines, Spiegel and Focus, reported Saturday that the woman of the couple was arrested in Marburg, in the state of Hesse, while listening to coded news via a radio receiver. Her husband was arrested in the town of Balingen in the state of Baden-Württemberg.

American trail

Anna Chapman, suspected Russian spyAnna Chapman was arrested in the US on charges of conspiracy in 2010

According to the reports, the two entered Germany via Mexico with false papers in 1990 and spent years sending coded messages to Russian Intelligence using a shortwave receiver.

If the date is correct, it would mean they began their activity in the last years of the Soviet-era KGB internal security agency.

The KGB was remodeled after the fall of the communist regime as the Federal Security Service (FSB). Unlike the FSB, the SVR deals in international - and often industrial - espionage.

The man in this case is a mechanical engineer who is said to have worked for a supplier of spare parts for cars and spied on the company.

The two were reportedly exposed last year when the American Federal Bureau of Investigation broke a network of SVR agents and arrested at least one other Russian spy, with whom the German pair had apparently had contact.

Industrial espionage

A 2010 federal intelligence report suggested Russia and China had the biggest active spy networks in Germany, though they focus on industrial, rather than state, espionage.

Russia's SVR runs an estimated 13,000 agents and is active in economic areas, science and technology, the report says.

The SVR is thought to focus on gathering information about propulsion systems, satellites, sensors and communication technology.

On Wednesday, the unnamed pair appeared at Germany's Federal Supreme Court and were remanded in custody.

They deny the charges.

Author: Zulfikar Abbany (dpa, AP)
Editor: Ben Knight

http://www.dw-world.de/dw/article/0,,15479857,00.html

From Peter Staal, tnx Peter

German police arrest couple suspected of spying for Russia
http://rt.com/news/german-police-russian-spies-505/
Published: 23 October, 2011, 01:52
Edited: 24 October, 2011, 20:23

The German Federal Police have arrested a married couple on suspicion of spying for Russia's foreign intelligence service for over two decades, according to reports in the German media.

The Federal Prosecutor's Office says the two were arrested on Tuesday by the GSG-9 special operations team, an elite division of the German police.

The pair were arrested separately, with one being picked up in the city of Baligen in Baden-Wuerttemberg state in the south-west of the country, while the other was detained in Marburg in the state of Hesse, which is to the west of central Germany.

Police reportedly walked in on the woman while she was listening to encoded radio transmissions.

The German news weekly, Der Spiegel, said that according to the authorities the man and the woman – referred to only as Andreas A. and Heidrun A. – had been working in Germany as Russian spies since the days when the KGB, the Soviet Union's spy agency, was operating in the country during the Cold War.

According to documents the couple both hail from South America, the man from Argentina and the woman from Peru, although both had Austrian passports.

However, inquiries made by German authorities in South America confirmed that the passport data had been falsified.

The couple allegedly moved to West Germany in 1988. Apparently, Andreas A. and Heidrun A. have been working all across Europe, with Germany serving as their base. It is thought they could have been playing a linking role between other agents and Moscow, media reports suggest. Also, according to Der Spiegel, Andreas A. speaks with a Russian accent, though he claims he knows only German, English and Spanish. Both have denied all charges.

It is not known what the alleged spies' target was, Der Spiegel says.

It is the first time undercover foreign agents have been found in Germany since the county was reunified in 1990, Der Spiegel stresses.

Police began investigating the couple after a Russian spy ring was uncovered in the United States last year.

http://rt.com/news/german-police-russian-spies-505/

Cold-War Style Spying
Russian Couple's Arrest Could Mar Diplomatic Ties

By Holger Stark

German investigators have arrested two suspected Russian undercover agents -- a married couple believed to have been spying on Germany for over two decades. The case could hurt relations between Germany and Russia.
Info
For reasons of data protection and privacy, your IP address will only be stored if you are a registered user of Facebook and you are currently logged in to the service. For more detailed information, please click on the "i" symbol.

It was still dark when a unit of German police commandos burst into a family home in the western town of Marburg at 06.30 a.m. last Tuesday. Heidrun A. was sitting in her study in front of a wireless transmitter that was receiving encoded messages on a shortwave frequency and was hooked up by cable to a computer.

The sudden appearance of armed officers in balaclavas must have been quite a shock -- the woman fell off her chair and pulled out the connecting cable between the receiver and the computer, thereby interrupting the recording of conspiratorial messages coming from the radio, accompanied by a special identification tune.

The Marburg arrest is the culmination of a secret, weeks-long effort by German security authorities to hunt down suspected Russian agents. It was an operation straight out of the annals of the Cold War. Heidrun A., 45, and her husband Andreas, 51, are suspected of having spent over 20 years as undercover agents spying on Germany for Moscow. Last Wednesday, both were brought before a judge and remanded in custody. Both deny the charges.

The spy thriller could hurt relations between Germany and Russia. This is the first arrest of illegal Russian agents in Germany since reunification in 1990. The use of this category of spy is particularly sensitive and expensive.

"Illegals" practice a high art of spycraft. These weren't standard agents masquerading as diplomats operating from an embassy and immune from prosecution. The worst such diplomatic spies have to fear is expulsion from Germany. But the married couple recently arrested can expect a long jail sentence. A spectacular trial resulting in a conviction could lead to a marked cooling in diplomatic relations between the two countries.

Spying During Berlin Wall Era

Officially, Chancellor Angela Merkel likes to stress that German-Russian relations are excellent. "They have broadened in recent years, and some haven't kept up," she said last year. Russian President Dmitry Medvedev has gushed that "Germany is our key country."

That obviously also applies to secret service activity. The German Federal Prosecutor's Office and the Federal Office for the Protection of the Constitution, which is Germany's domestic intelligence service, say the undercover operation by the married couple from Marburg began before the fall of the Berlin Wall in 1989, in the days of the Soviet KGB.

In 1988, Andreas A. moved to Germany, a young man who said he was born in Argentina and raised in Austria and who wanted to study in Germany. In 1990 he married his partner, Heidrun, who presented a similar CV -- born in Peru, Austrian citizen.

Andreas studied engineering and plastics technology in Aachen. The couple soon had a daughter. In 1998, after he had completed his studies, Andreas joined an auto components manufacturer. He changed jobs several times and the family moved to North Rhine-Westphalia and then to Rhineland-Palatinate. Early this year Andreas joined a company in the southwestern town of Balingen as a project manager. Sometimes he commuted the 360-kilometer distance to Marburg, sometimes he spent weeknights in an apartment close to his work. Police arrested him in that apartment. He seemed to be living the ordinary, inconspicuous life of an employee who has to commute long distances to and from work.

Similarities With Anna Chapman Case

His life was as unspectacular, in fact, as that of Anna Chapman, who has more in common with Andreas and Heidrun A. than would seem apparent at first sight. The photogenic Russian with red-dyed hair was part of a spying ring of 11 illegal agents uncovered in the US in June 2010. Some of the Russians had spent over a decade working for the SWR Russian Foreign Intelligence Service, the successor organization to the KGB. Their headquarters had been especially interested in reports about US foreign policy. The agents communicated with messages written in invisible ink and coded statements such as, "Tell him Uncle Paul loves him," and "He will know it is wonderful to be Santa Claus in May."

According to an encrypted message from Russia retrieved by US officials, one agent was told: "You were sent to the USA for long-term service trip. Your education, bank accounts, car, house, etc. -- all these serve one goal: Fulfill your main mission, i.e. to search and develop ties in policymaking circles in US and send intels (intelligence reports) to C(enter)."

A few days before the FBI pounced in the summer of 2010, a Russian intelligence officer defected to the US. He was believed to have been working for the CIA since 1999: Alexander Poteyev, one of the officers handling the team of agents on the US east coast. Poteyev is believed to have betrayed Chapman and Co: a Moscow court has sentenced him in absentia to 25 years in jail. He didn't just offer the Americans information on the 11 agents but also gave them deep insight into the workings of Moscow's "Illegals" program -- including the rumor that a similar group of agents was also operating in Europe.

The longer German counter-intelligence agents spent looking at the Chapman case and at further information, the clearer the picture became. They concluded, based on radio messages to Germany, that at least one, and perhaps several Russian spy couples were living in Germany. In late summer the trail of clues led them to the Marburg home of Andreas and Heidrun A.

Incriminating Evidence

Time seemed to be running out for the investigators. Andreas had already resigned from his job, sold his car and was packing up to leave Germany, saying he could earn more money abroad. The German authorities suspected that the couple wanted to make a getaway, and that the SWR headquarters might have known that the agents were close to being caught.

It is not clear if Heidrun and Andreas A., as with Chapman and her colleagues, focused on foreign policy. Alongside the agent radio which they both regularly received, another incriminating fact is the false information on their Austrian passports. Inquiries in Argentina and Peru showed that the places of birth listed were not correct. In addition, Andreas A., who said his hobbies were travel, walking and deep sea fishing, speaks with a detectable Russian accent, although, according to his own information, he only speaks German, Spanish and English.

Experts believe it is possible that the couple used Germany as a base but operated elsewhere in Europe. Another theory is that they were in contact with other agents and acted as a relay station for information to Moscow.

During the investigation, specialists from the Federal Criminal Police Office (BKA) used a mobile X-ray laboratory to locate cavities possibly used to hoard secret documents: Even a tennis racket was X-rayed.

'An Interesting and Bright Life'

The case could go down in legal history. Under German law, it is only punishable to work for a foreign intelligence agency against Germany. The question is, whether, in the context of the European Union, Germany's interests would be damaged by an agent using Germany as a base to operate in a nearby country. For the federal prosecutor, this will determine whether the case will end in failure or be a big success, like the Anna Chapman case.

In the high-profile Chapman case, the FBI could not prove that the Russian and her agent friends were involved in spying. Instead they were charged with money laundering and conspiracy. But after the arrest, the Kremlin admitted they were Russian citizens. In true Cold-War style, the agents were exchanged for four alleged CIA spies who had spent years in Russian prisons.

After their return Vladimir Putin lauded the risk that they had undertaken. "Just imagine ... You have to master a foreign language as your own, think and speak it and fulfill tasks in the interest of the motherland for many years without counting on diplomatic immunity," he said.

Speaking about the spies arrested in America, Putin made a promise which will also be of interest to Andreas and Heidrun A.: "I am sure that they will have an interesting and bright life."

From E2k

There was some speculation that due to the reported time of the Marburg raid the transmission involved was M12.

The transmission in question is a 0340/0400/0420z sched, ID 876, that transmits on Tue and repeats Thu with the same details.

The raid was on Tue 18th Oct at 0630 local (0420z).

The transmission on that date, and on the following Thu was a null msg, so there would have been no msg in progress at any time that day, if this was the correct transmission.

However, interestingly the msg for the previous week, Tue 11, was 289 Grps – a longer than usual msg that resulted in the times of the following transmissions being extended, while the msg for the week following the raid, Tue 25th was a large, though not unprecedented 335 Grps.

Thanks BR.

Gizza Job........

Her Majesty's Government Communications Centre (HMGCC) is a small group tasked to provide electronics and software to support the communication needs of the British Government. It is closely linked with the Foreign & Commonwealth Office and the British intelligence community and I'm joining the dots……………….

Intelligence Analysts

It's Intelligence Analysts now for our redundant bankers, engineers, teachers, minicab drivers etc etc to contemplate.

Usual conditions apply: Must be British and say nothing

[Tnx E]

Belter of an advert this.

'Everyone uses IT including terrorists' says it all.

This advert was part of a full page advertising extravaganza [see end of NL] that adequately described this post and duties, complete with the day of a IT operative.

Good cash too although you do have to be British and keep it battened!

Here's three for our American cousins:

Job Category: DEF - Defense/Intelligence/Geopoltcl

Req ID: 209905
Able to obtain security clearance? Top Secret SCI
Currently possess security clearance? Top Secret SCI
Location: Beale AFB, CA
% Travel:
Relocation: No

Requirements: The SIGINT Fusion Analyst provides operational support and situational awareness to Distributed Ground System mission crews on current activities through database research and metadata analysis through various tools and techniques and monitors SIGINT analysis and reporting throughout the DoD. The SIGINT Fusion Analyst facilitates cross-cueing of multiple national level assets within the intelligence community through direct chat with both consumers and producers. The SIGINT Fusion Analyst also develops post mission analysis for future target trends and long term trend analysis against set target bases. The analyst will provide expertise necessary to assist in the development and documentation of operational checklists, procedures, and training requirements and may be required to educate and demonstrate new methodologies and instruct on the use of advanced applications. Selected candidate will be working with DGS-2 crews at Beale AFB, California.

EDUCATION/REQUIRED SKILLS: Successful candidate must have an Associates degree in liberal arts or science (or related fields) and 4 years of related experience. (4 years of related experience can be used in lieu of associates) The successful candidate should be a Graduate of a US military intelligence AFSC/MOS/NEC awarding course. Minimum of 4+ years of experience in the Intelligence field at a tactical or strategic operational level. Working knowledge of the national and tactical intelligence infrastructure available to DoD. Experience using SIPRNET and NSANET. Working knowledge of Analyst Notebook, or equivalent nodal analysis tool, Pathfinder and AMHS (M3). Must be capable of working independently and with demonstrated working knowledge of the intelligence processes including but not limited to: the Intelligence Cycle, Collection Management Cycle and the analysis techniques and applicable signals intelligence traffic analysis procedures for performing metadata analysis. Full knowledge of intelligence oversight and security guidelines. Must have and maintain a TOP SECRET/SCI clearance with Special Background Investigation (SBI) and attain SI, TK, G, and HCS access. Must be willing to sign a Non-Disclosure Statement. Shift work required.

DESIRED SKILLS: Experience performing SIGINT analysis and fusion to provide actionable intelligence to warfighters. Military tactical and especially OIF/OEF deployed experience. Working knowledge of GSM, INMARSAT, PSTN, all pertinent databases (BANYAN, GLOBALREACH, CULTWEAVE, etc.), ANB and net reconstruction techniques, M3, ANCHORY, PATHFINDER, NSA net and administrative offices with whom we work (oversight and compliance, Policy, Reporting Policy, and Guidance, etc.). Expert knowledge of CRITIC procedures. Working knowledge of signal propagation, a definite plus. Proficient with Microsoft Office.
SAIC is a FORTUNE 500® scientific, engineering, and technology applications company that uses its deep domain knowledge to solve problems of vital importance to the nation and the world, in national security, energy and the environment, critical infrastructure, and health. For more information, visit www.saic.com. SAIC: From Science to Solutions®

SIGINT Intelligence Analyst
Permanent
Our client is seeking an Expert Intelligence Analyst for their Fort Meade location. Candidates who are both qualified and interested are encouraged to apply online today.

Qualifications:

- At least five (5) years experience shall have been at the executive level (GS-15, O-5 or above), with management or command responsibilities.
- Experience shall include end-to-end SIGINT processes, generating requirements, collection management, and intelligence analysis. Previous participation in -big picture- activities such as mission development, systems development, project management, staff action management, and strategic planning is required.
- Excellent communication and reporting skills are a must.
- Experience with the usage of SIGINT database repositories and analytic tools to include, in-depth understanding of the SIGINT Collection/Collection Management architecture and data flow.
- Experience with Multi-INT analysis, fusion and report intelligence data.
- Experience in performing analysis/fusion of collection intelligence data.
- Experience providing guidance to intelligence analysts
- Experience in strategic planning, production management, customer support.
- Ability to liaison/collaborate/network with internal and external organizations.
- Experience in the operational planning and building of strategies and concepts of operation on high priority intelligence issues.

The candidate shall have extensive experience in two or more of the following areas:

- SIGINT Development (SIGDEV) experience in dialing analysis.
- Digital Network Intelligence (DNI)
- Dialed Number Recognition (DNR)
- SIGINT Geospatial Analysis (SGA)
- Developing and maintain Very Large Databases (VLDB) containing Multi-Level Security (MLS) Multi-INT data, sourcing and classification markings.
- Developing Data Visualization of Intelligence Data containing MLS markings and sources.
- Operations Research tools and techniques to analyze processes to identify strengths, weaknesses and vulnerabilities of entities as determined by the government.

SIGINT Fusion Analyst III Job

SAIC - Kandahar, Afghanistan (Afghanistan)
Job Description
SIGINT Fusion Analyst III Full Time Regular posted 9/16/2011

Job Category: DEF - Defense/Intelligence/Geopoltcl
Req ID: 209447
Able to obtain security clearance? Top Secret/SCI w/ CI Polygraph
Currently possess security clearance? Top Secret SCI
Location: Kandahar,
% Travel: 50
Relocation: No

Requirements: PRIMARY RESPONSIBILITIES: This position provides expert knowledge related to accomplishing SIGINT processing, exploitation and dissemination (PED) and intelligence fusion functions, and associated Tactics, Techniques and Procedures (TTPs) supporting a customer at a deployed location in the CENTCOM theater of operations. Responsibilities include providing real-time tactical exploitation of SIGINT data fused with wide-area motion imagery and high definition motion imagery in both electro-optical and infrared modes. Create tailored intelligence products to support the operational customer from multiple SIGINT and geo-spatial information sources. Work as an integral member of a cross-disciplinary intelligence exploitation cell at a deployed location.

Candidate will work in a fast-paced deployed environment providing real-time operational support to the warfighter. Must have the ability and desire to deploy and to support extended work week and shift work.

REQUIRED EDUCATION AND SKILLS: Bachelors degree and/or equivalent military training and 6+ years of related experience are required. Must have formal service training as a SIGINT analyst as well as familiarity and working knowledge of state-of-the-art ISR applications, tools and systems. Working knowledge and experience with national, operational, and tactical intelligence infrastructure available to DoD is required. Must be proficient in the use of tools common to the Signals intelligence community. Must have working knowledge and recent demonstrated experience performing SIGINT analysis and cross-cueing activities to provide actionable intelligence to the warfighter.

Must have a TS/SCI clearance, with the ability to obtain a Full Scope Poly.

DESIRED SKILLS: Recent experience in U.S. Central Commands Area of Responsibility is preferred. Military tactical, OIF / OEF deployed experience is a plus. Experience with multi-INT processing, exploitation, and dissemination (PED) missions (to include DCGS) is a plus. Experience drafting and presenting tailored intelligence products is desired. Experience with ArcGIS, FalconView or other geospatial information system tools is preferred. Familiarity with Special Operations intelligence requirements is desired.
Company Description
SAIC is a FORTUNE 500® scientific, engineering, and technology applications company that uses its deep domain knowledge to solve problems of vital importance to the nation and the world, in national security, energy and the environment, critical infrastructure, and health. The company's approximately 43,000 employees serve customers in the U.S. Department of Defense, the intelligence community, the U.S. Department of Homeland Security, other U.S. Government civil agencies and selected commercial markets. SAIC had annual revenues of $10.85 billion for its fiscal year ended January 31, 2010.

More careers at MI5 – one size fits all!

From intelligence officers to analysts and you can bet that also includes:

Carpenters/Multi-traders
Computer and Network Forensic Specialists
Enterprise Application Architect
Enterprise Infrastructure Architect
Intelligence Analyst (Data Analysis)
Foreign Language Analysts
[Arabic, Bengali/ Sylheti, Pakistani Pashto, Pakistani Punjabi with Pothwari, Somali and Kurdish Sorani soon to be followed by Russian and Mandarin].

Up and coming jobs are listed as:

Intelligence Officers
Intelligence Analyst (Data Analysis)
Foreign Language Analysts
IT Security Exploitation Officers
Computer and Network Forensic Specialists
Vehicle Technicians
Enterprise Architects - Applications or Infrastructure

These are mostly graduate oriented and apply the gobshut rule.

If you read some the 'day in the life of…' you'll see some of the jobs are flexitime.

Of course if you're as motivated as BBC's Spooks Tariq Masood you'll leave the secure environ of the UK Grand Lodge go home, log on and find your equipment compromised.
With some urgency you'll leave your gaff, smartish like, and whilst hailing a sherbet dab [cab] you'll be bumped into and suffer a type of attack that Georgi Markov could only marvel at – although there was reference to a poisoned umbrella in the storyline between two Russian something or the others.

Careers at MI5.
Worth more than just scanning over.

Capture the code with your smartphone or go to www.mi5.gov.uk/careers

SECURITYSERVICE MI5

Point out an error here too. The Russian target Ilya Gavrik turns up in a diplomatic car. Unfortunately the VRM read 217Dnnn. The diplomatic series 215 to 217D is actually for the Netherlands; the Russia Federation using the series 248-252Dnnn. We do languages at E2k as well……………………

And, like those who feature in the 'day in the life of…' my name's not Karen either………….

The same advert appeared again, same newspaper, same day different date.

This time though the ad suggests'From Data Aanlysis to IT Security.'

The day before the BBC had their act right together with the US 'apparently' rogue CIA wallah using a diplomatic car with the VRM 459D638. The lovely Ruth checks it via the DVLA and it comes back as 'no trace.' I looked my listing up and true enough – no trace.

The storyline was fairly decent with disgruntled Muslims, one spying for MI5 [*spying is forbidden within the Q'uran, it's kufr*] who eventually carries a bomb vest into Trafalgar Square.
No worry, C019 are there – as is that rank female operative 'Erin' – and we see a dot of laser light on our bombers forehead. For a minute I thought it was a bindi, I know not as target was Muslim faith[*Courtesy of Lata Mangeshkar in Abimaaan: 'de hai hai teri bindiya rey'*] anyway, there's the sound of a silenced shot and our man collapses in the arms of two plainclothes types as another steps forward and disarms the vest with one snip of his cutters, 4" diagonal.

Thrilling stuff – is BBC's Spooks is good entertainment but true to life? Of course not!

Coming soon!! The very same afternoon.

Foreign Language Analysts indeed.

It's all there in the advert, nothing more, nothing less.

For those who wish to know there are 28 letters in the Arabic alphabet, that shewn on the face of the brick being the second, 'Baa.'

Good advert, reminded me of the opening sequence to BBC's 1974 Tinker Tailor…… except that was a sequence involving the Matryoshka doll rather than building bricks. *[Thanks E]*

More Intelligence Officers

Really pushing the boat on this. This ad taken from a Students' Mag.

Usual stuff – Need a degree and a bit of grey matter, gift of the gab, loyalty and the ability to keep your gob shut

Sport updates
Celebrity gossip
Terrorist activity

What are you
listening to today?

English Language Analysts
London | £27,582 inc. shift allowance

There are few jobs more rewarding – or important – than these
front-line intelligence roles. 24 hours a day, our team of English
Language Analysts listen to lawfully intercepted conversations,
picking out essential information that will help us counter terrorism
across the UK. They come from a wide range of backgrounds –
but they all have the ability to process information quickly and
the adaptability to work in an operational environment where things
change rapidly.

To find out more and apply, go to www.mi5.gov.uk/careers/listen

Discretion is vital. You should not discuss your application,
other than with a partner or close family member.

SECURITY SERVICE MI5

English Language Analysts

This one's a little different indeed – not a foreign language and looks very interesting indeed.

Tinkerbell 2 indeed!

Keepit quiet!!!

[Thanks E]

Not a job!

IF IT LOOKS SUSPICIOUS
SAY SOMETHING
TO OUR STAFF OR THE POLICE

MAYOR OF LONDON   Transport for London

If it looks suspicious say something to our staff or the police

This looks like the latest attempt to scare us shitless. '…say something to our staff or the police'

They've forgotten something; the only time you ever see a policeman is when you don't want one and have you tried finding TfL staff? You only ever see them as they whizz past driving a tube or they're forming a picket outside a tube station when it's shut courtesy of the union dinosaur leader. [*Da chairman Kruschev – I vill shut de undergrunt vailvay tomorrow and ruin de country because I'm simples*].

Of course it could be that someone had uncovered a credible but unconfirmed threat [as the US did in the run up to 9/11 anniversary] or more likely this is the start of a very long and most boring campaign to get everyone in an anti-terror role for nothing.

I actually put a mirror under my bike yesterday to see if I had been gifted with a Capganolo seven speed terror bomb I'm that paranoid about terror thanks to crap adeverts like this and especially with that paragon of truth and honour, Tony Blair, running around warning us about the threat from Iran.

Of course this could also be about reducing a terror threat to the 2012 Olympics in London that most Britons don't want and which Londoners have paid for with little chance of going to see them. Thanks Seb Coe – a bloke who got his peerage 'cause he could run fast.

And to avoid a transport cock-up Londoners have to work from home and not use the travel system. Most underground users are capable of LUG Rugby at the best of times…….

What about the shutting roads off except for Olympic traffic!!! Most immediate terror will come from disgruntled Londoners methinks as they tell Seb Coe and his prickish clones what they think of them.

So, remember if you're in London 'Keep 'em peeled.'

Thanks for your input here E

Shayler, 'Tunworth' and Gaddafi, anyone?:

UK 'traded intelligence with Libya'
http://www.thisislondon.co.uk/standard/article-23983784-uk-traded-intelligence-with-libya.do

The British security service traded information with Libya in return for intelligence extracted from terror suspects under interrogation in Libyan prisons, documents discovered in Tripoli appear to indicate.

MI5 handed over details on British-based Libyans opposed to the regime of Muammar Gaddafi, which said it had seen an MI5 paper marked "UK/Libya eyes only secret".

Britain was rewarded in turn with updates on the disclosures made by suspected terrorists being questioned in Libya, the latest cache of documents indicates.

The papers, discovered by Human Rights Watch, follow others that were found in the Tripoli offices of former head of Libyan intelligence Musa Kusa, indicating the close co-operation between British intelligence and the deposed Gaddafi regime.

They also show how the CIA worked with the regime of the now fugitive dictator on the rendition of terror suspects, one of whom was reported to be Abu Munthir, previously the deputy of a man described as al Qaida's number three, Abdul Hadi.

The letters are said to show that the CIA arranged the delivery of Mr Munthir to Libya but that Britain provided the intelligence tip-off.
The Foreign Office said it could not comment on intelligence matters.

The Old Bailey heard during a trial in 2006 that Mr Munthir had discussed a plot to stage multiple bomb attacks on the UK with al Qaida terrorist Omar Khyam.

Khyam was alleged to have been on a 10-day trip to see Mr Munthir in a northern tribal area of Pakistan near Kohat.

He and four other members of his terror cell were jailed for life in April 2007 but it is not clear what happened to Mr Munthir.

As the deadline for Gaddafi's surrender nears, rebel fighters are continuing to step up pressure on him.

Negotiations held over the peaceful handover of a loyalist area have failed, they said.

Abdullah Kanshil, a rebel negotiator outside the town of Bani Walid, said fighters were waiting for the green light to launch a final assault.

Pro-Gaddafi forces have been given a deadline of Saturday to surrender in their strongholds of the old regime or face an attack.

Meanwhile it has emerged that Britain was threatened by the Gaddafi regime that there would be "dire consequences" for UK-Libya relations if Lockerbie bomber Abdelbaset al-Megrahi died in his Scottish jail cell.

The extent of lobbying by the Libyan government leading up to Megrahi's release in August 2009 was laid bare after confidential documents were discovered by reporters in the abandoned British embassy building in Tripoli.

In one, senior Foreign Office official Robert Dixon wrote to Foreign Secretary David Miliband in January 2009 that Gaddafi wanted Megrahi to return to Libya "at all costs".

"Libyan officials and ministers have warned of dire consequences for the UK-Libya relationship and UK commercial operations in Libya in the event of Megrahi's death in custody," he wrote.
He added: "We believe Libya might seek to exact vengeance."

Megrahi - the only person convicted of the 1988 Lockerbie bombing - was released on compassionate grounds after the Scottish government was told he had only three months to live. He is still alive today.

After a review of the paperwork in the case, Cabinet Secretary Sir Gus O'Donnell said in February that British ministers in the last Labour government believed Megrahi's release would be the "best outcome" as they feared that UK interests in Libya would be damaged if he was allowed to die in a Scottish jail.

The Ministry of Defence said British forces had hit a series of command and control installations on Saturday as they continued to monitor areas around Sirte and Waddan where Gaddafi loyalists were active.

Major General Nick Pope, Chief of the Defence Staff's communications officer, said: "South-west of Waddan, Tornado GR4s struck eight military command and control installations on Saturday morning, scoring direct hits on all the targets with Paveway guided bombs.

"At the same time, another formation of Tornados struck nine weapons and ammunition stores near to Sirte, again scoring direct hits on all nine targets."
http://www.thisislondon.co.uk/standard/article-23983784-uk-traded-intelligence-with-libya.do

Shayler, 'Tunworth' and Gaddafi :   Shayler went to prison for blowing the whistle on this assassination plan whilst the Crown denied such allegations. Now we're dropping tons of bombs on the place to remove Gadaffi. Strange old world, and HMG actually got their wish.
Two things Gadaffi did right : keeping rival tribes apart and keeping aQIM out of Libya ---- now watch it all go crook.

Libya inquiry to look at MI6 torture claims
Nicholas Cecil, Chief Political Correspondent Nicholas Cecil, Chief Political Correspondent
5 Sep 2011
http://www.thisislondon.co.uk/standard/article-23983981-libya-inquiry-to-look-at-mi6-torture-claims.do

An inquiry into Britain's intelligence services will examine claims they helped to send a terror suspect back to Libya where he was allegedly tortured.

David Cameron was set to tell MPs that the Gibson Inquiry into the UK's involvement with detainees in overseas counter-terrorism operations should look into the case of Abdel Hakim Belhadj.

Mr Belhadj, who founded the Libyan Islamic Fighting Group, was reportedly flown back from Asia to Tripoli in 2004 where he was jailed for seven years and tortured. He is understood also to be known as Abu Abd Allah Sadiq.

A secret letter has been discovered in an abandoned building in Tripoli which was previously used by Gaddafi's intelligence service headed by Musa Kusa who was feared by the regime's critics as the "envoy of death".

Believed to have been written by a former senior MI6 counter-terrorism officer, it says: "I congratulate you on the safe arrival of Abu Abd Allah Sadiq."

Mr Belhadj, now a rebel commander in Tripoli, has demanded an apology from London and Washington.
The letter said the intelligence about Abu Abd Allah "was British" even though "I know I did not pay for the air cargo".

It is understood the Foreign Secretary would have been involved in deciding Britain's role in such sensitive cases.

Jack Straw, who was Foreign Secretary at the time, urged Sir Peter Gibson's inquiry to look into the claims. He said: "At no stage did I ever authorise or turn a blind eye to unlawful practices by the Secret Intelligence Service in relation to torture, rendition or any other matter. To the very best of my knowledge it did not take place."

MI6 chief Sir John Sawers has denied his officers engage in torture or break the law on rendition or other issues.

But there were also claims that Britain was involved in the rendition of a terror suspect known as Abu Munthir.

Tory MP Andrew Tyrie, chairman of the all-party parliamentary group on extraordinary rendition, believes the UK has been "complicit" in the ill-treatment of terror suspects.

"For over six years, I have been trying to get to the truth about Britain's complicity in the kidnap and torture of detainees. Allegations keep on coming. Each must be investigated by the Gibson Inquiry."

He cast doubt, however, on whether the inquiry would reveal the truth, criticising decisions not to appoint an investigator, not to look at the transfer of detainees in theatre and saying it should engage more with victims.
http://www.thisislondon.co.uk/standard/article-23983981-libya-inquiry-to-look-at-mi6-torture-claims.do

Terror suspect in London ban 'vows to come back and plot'
Nicholas Cecil, Chief Political Correspondent Nicholas Cecil, Chief Political Correspondent
5 Sep 2011
http://www.thisislondon.co.uk/standard/article-23983972-terror-suspect-in-london-ban-vows-to-come-back-and-plot.do

A terror suspect banned from London told how he wants to resume plotting when he returns to the capital, once anti-terror laws are watered down.

Known as BM, he could be back in London months before the Olympics under the Government's decision to drop powers to relocate individuals deemed a national danger.

He has appealed against his ban from the capital, though his lawyers admitted at the High Court that he is "committed to terrorism, in particular to terrorism in Pakistan".

The court heard that he wants to go to Pakistan "to take part in, or assist others to take part in, terrorist acts". He was also said to want to help finance terrorism there, or go under cover in the UK in order to do so.

Labour attacked Home Secretary Theresa May after tabling an amendment to block the reforms in the Terrorism Prevention and Investigation Measures Bill, which was being debated by MPs today.

Shadow home secretary Yvette Cooper said Mrs May was "playing Londoners for fools", adding: "She is still persisting with dangerous weakening of counter-terrorism measures which will allow more serious suspected terrorists to remain in the capital."

She highlighted the case of BM, a 38-year-old British national. Born in Sheffield and father of five young children, he had been living in Ilford but was banned from London, on the orders of Mrs May, to stop him allegedly channelling funds to his brothers in Pakistan.

BM is said to maintain contacts through his family with individuals in Pakistan who "represent a threat to UK national security".

Seeking to overturn the ban, he highlighted the Government's plans to ditch relocation powers as lending weight to his claim that his forced relocation was excessive.

The security services and police are understood to have concerns over the change to anti-terror laws. Mrs May has responded to a backlash by proposing a new Bill which will allow relocation powers to be used in exceptional circumstances.

A Home Office spokesman said: "National security is the primary duty of government and we will not put the public at risk.

"Our absolute priority is to prosecute and convict suspected terrorists in open court. The new system will provide effective powers for dealing with the risk posed by individuals we can neither prosecute nor deport.

"We have always said there may be exceptional circumstances where it could be necessary to seek parliamentary approval for additional restrictive measures."

Anti-terrorism experts say suspects will need far greater, costly surveillance which will not fully eliminate the additional risk they pose from not being relocated.
http://www.thisislondon.co.uk/standard/article-23983972-terror-suspect-in-london-ban-vows-to-come-back-and-plot.do

Stolen information worth £300m recovered by GCHQ
Details stolen from more than a million credit cards across Europe, worth an estimated £300 million, have been recovered by the GCHQ spy agency, The Daily Telegraph can disclose.
By Duncan Gardham, Security Correspondent
12:58AM BST 05 Sep 2011
http://www.telegraph.co.uk/news/uknews/8741142/Stolen-information-worth-300m-recovered-by-GCHQ.html

William Hague, the Foreign Secretary, said the agency had joined forces with the Serious and Organised Crime Agency to obtain the information as part of the ongoing cyber war against foreign states and criminals.

A team of experts at GCHQ is understood to be working with the military to develop internet tools to strike back if states attack infrastructure such as water supplies, electricity and banking.

Mr Hague is seeking to agree new rules for cyberspace with China and Russia in order to put an end to such attacks.

He said Britain was under attack over the internet from states and criminals determined to steal secrets and that he wanted to establish new "norms of behaviour in cyberspace."

He is hoping to set up a new Geneva-style convention to govern cyberspace in the same way that a conventional battlefield has rules.

A conference in London in November, to which both China and Russia have been invited, will try to agree "appropriate behaviour" in cyberspace in order to protect "democratic ideals".

Mr Hague spoke ahead of the launch of the government's new cyber strategy next week which will encourage private sector firms to get together and admit where they have been hacked in order to prevent further attacks, sources said.

Despite numerous suggestions elsewhere, Mr Hague was keen not to single out China and Russia as Britain's biggest adversaries in cyberspace, but he admitted that there are "grades of friendship" with foreign countries.

In the first interview by a Foreign Secretary at GCHQ in Gloucestershire, Mr Hague said that Britain was good at leading international co-operation, but added: "We are, and will remain, the most advanced country at protecting itself against cyber attacks. That is our first concern."

http://www.telegraph.co.uk/news/uknews/8741142/Stolen-information-worth-300m-recovered-by-GCHQ.html

Hackers steal SSL certificates for CIA, MI6, Mossad
By Gregg Keizer | Framingham | Monday, 5 September, 2011
http://computerworld.co.nz/news.nsf/security/hackers-steal-ssl-certificates-for-cia-mi6-mossad

The tally of digital certificates stolen from a Dutch company in July has exploded to more than 500, including ones for intelligence services like the CIA, the UK's MI6 and Israel's Mossad, a Mozilla developer said on Sunday.

The confirmed count of fraudulently-issued SSL (secure socket layer) certificates now stands at 531, said Gervase Markham, a Mozilla developer who is part of the team that has been working to modify Firefox to blocks all sites signed with the purloined certificates.

Among the affected domains, said Markham, are those for the CIA, MI6, Mossad, Microsoft, Yahoo, Skype, Facebook, Twitter and Microsoft's Windows Update service.

"Now that someone (presumably from Iran) has obtained a legit HTTPS cert for CIA.gov, I wonder if the US gov will pay attention to this mess," Christopher Soghoian, a Washington DC-based researcher noted for his work on online privacy, said in a tweet Saturday.

Soghoian was referring to assumptions by many experts that Iranian hackers, perhaps supported by that country's government, were behind the attack.

Google has pointed fingers at Iran, saying that attacks using an ill-gotten certificate for google.com had targeted Iranian users . All the certificates were issued by DigiNotar, a Dutch issuing firm that last week admitted its network had been hacked in July . The company claimed that it had revoked all the fraudulent certificates, but then realized it had overlooked one that could be used to impersonate any Google service, including Gmail. DigiNotar went public only after users reported their findings to Google.

Criminals or governments could use the stolen certificates to conduct "man-in-the-middle" attacks, tricking users into thinking they were at a legitimate site when in fact their communications were being secretly intercepted.

Google and Mozilla said this weekend that they would permanently block all the digital certificates issued by DigiNotar, including those used by the Dutch government. Their decisions come less than a week after Google, Mozilla and Microsoft all revoked more than 200 SSL (secure socket layer) certificates for use in their browsers, but left untouched hundreds more, many of which were used by the Dutch government to secure its websites. "Based on the findings and decision of the Dutch government, as well as conversations with other browser makers, we have decided to reject all of the Certificate Authorities operated by DigiNotar," Heather Adkins, an information security manager for Google, said in a Saturday blog post .

Johnathan Nightingale, director of Firefox engineering, echoed that late on Friday . "All DigiNotar certificates will be untrusted by Mozilla products," said Nightingale, who also said that the Dutch government had reversed its position of last week -- when it had asked browser makers to exempt its DigiNotar certificates. "The Dutch government has since audited DigiNotar's performance and rescinded this assessment," Nightingale said. "This is not a temporary suspension, it is a complete removal from our trusted root program." On Saturday, Piet Hein Donner, the Netherlands's Minister of the Interior, said the government could not guarantee the security of its websites because of the DigiNotar hack, and told citizens not to log into its sites until new certificates had been obtained from other sources.

The DigiNotar breach is being audited by Fox-IT, which told the Dutch government that it was likely certificates for its sites had been fraudulently acquired by hackers. Several security researchers said the move by browser makers puts an end to DigiNotar's certificate business. "Effectively a death sentence for DigiNotar," said Jeremiah Grossman, CTO of WhiteHat Security, in a Friday tweet . Mozilla was scathing in its criticism of DigiNotar. Nightingale ticked off the missteps that led Mozilla to permanently block all sites signed with the company's certificates, including DigiNotar's failure to notify browser vendors in July and its inability to tell how many certificates had been illegally obtained. "[And] the attack is not theoretical," Nightingale added. "We have received multiple reports of these certificates being used in the wild." Markham went into greater detail on the hack and its ramifications. "

It has now emerged that DigiNotar had not noticed the full extent of the compromise," said Markham in a Saturday post to his personal blog . "The attackers had managed to hide the traces of the misissuance -- perhaps by corrupting log files."

Because the Google certificate that prompted DigiNotar to acknowledge the intrusion was obtained before most of the others, Markham speculated that there had actually been two separate attacks, perhaps by different groups. "It is at least possible (but entirely speculative) that an initial competent attacker has had access to [DigiNotar's] systems for an unknown amount of time, and a second attacker gained access more recently and their less-subtle, bull-in-a-china shop approach in issuing the [hundreds of] certificates triggered the alarms," he said. Last week,

Helsinki-based antivirus company F-Secure said it had found signs that DigiNotar's network had been compromised as early as May 2009 . Mozilla will update Firefox 6 and Firefox 3.6 on Tuesday to permanently block all DigiNotar-issued certificates, including those used by the Dutch government. On Saturday Google updated Chrome to do the same.
http://computerworld.co.nz/news.nsf/security/hackers-steal-ssl-certificates-for-cia-mi6-mossad

Tinker, tailor and Flash-Bang Smiley
Matthew Dunn
The Times and The Sunday Times (Times Newspapers Limited.)
Sunday, September 11, 2011

For more than 100 years the Secret Intelligence Service (MI6) has been not only a secret organisation but also an invisible one.

To many the only evidence that it exists is its fortress headquarters in Vauxhall Cross, south London.
When I was in MI6 the organisation was still almost mythical and was talked about only in fiction, retrospective non-fiction and media conjecture. But during the Libyan conflict we are seeing, perhaps for the first time, open discussion about its operations.
In March an MI6 operative and his SAS protection team were captured in Libya. William Hague, the foreign secretary, described the operative as a "diplomat". Nobody bought that description and I suspect Hague knew they wouldn't.

In the past week the discovery of MI6 documents in the Libyan intelligence headquarters has raised many questions about what kind of support Colonel Muammar Gadaffi may have received from MI6 and, in turn, whether British intelligence was supplying his regime with information that could have led to the torture of terrorist suspects.
Historically, while the media and public could have speculated as much as they liked about such issues, the government would have always provided a "no comment" in relation to MI6 and its activities. But last Monday David Cameron publicly stated that he wants an investigation into the allegations about MI6's relationship with Gadaffi.
Aside from Libya, during the past year MI6 has been visible in the Chilcot inquiry into the Iraq war and the unsolved death of Gareth Williams, a junior desk officer.

Sir John Sawers, chief of the service, has given a public speech and some former senior officers, notably Sir Mark Allen, whose name was prominent in the Libyan documents, have had details about their careers printed in the media. There appears to be a three-way courting process taking place between MI6, the government and the public.
Everyone is "pushing the envelope" a little to see how far openness can be reached. Even if the detail of its work is still largely secret, MI6 is no longer invisible. The service's escalating profile is a symptom of the threats the government wants it to combat and of a subtle change in its role. Since 9/11 MI6 has been thrown full force at Al-Qaeda, the Taliban and every other terrorist organisation and has operated deep behind enemy lines in Iraq, Afghanistan, Libya and elsewhere.

While it continues to target long-established threats using traditional spy tradecraft, a part of the organisation is now being deployed in a quasi-paramilitary role in the current theatres of war. That role can let in some degree of limelight without catastrophic consequences, providing that limelight is shone after the specific action.
Traditional covert espionage operations are different — they have a beginning but often their end may not come for years or even decades. Such work must have no limelight. That brand of spying flourished during the cold war. MI6 knew that the guns and glory approach to espionage, which the Special Operations Executive had revelled in during the second world war as it "set Europe ablaze" at Churchill's request, had no place in a theatre requiring the covert recruitment and running of foreign agents to spy on the Russians.

During this period MI6 conducted operations that were extremely complex, sometimes painfully protracted, subtle and dangerous, yet which rarely needed weapons. The KGB and East Germany's Stasi were professional opponents who also understood the merits of traditional espionage techniques over paramilitary actions. Neither side benefited by pulling out a handgun.
The tradecraft they deployed is brilliantly captured in John le Carré's Tinker, Tailor, Soldier, Spy (published in 1974) and the eagerly anticipated movie of the same name. Le Carré, aka David Cornwell, was an MI6 officer in the 1960s and was tasked against the threat from the Soviet Union. His early novels are an accurate reflection of what it was like to work in MI6 at that time.

The situation is very different now. Agents must be as comfortable in the flash-bang environment of Libya as in the chess game of a cold war. An MI6 officer must be able to infiltrate hostile territories, hide among and interact with local populations, obtain time-sensitive secret intelligence, guide in foreign troops and missiles, expertly advise rebel commanders and supply opposition groups with technical support and basics such as food, guns, cash and medicine. A single MI6 operative working in the back streets of Tripoli can be more valuable than 10,000 British troops on Libyan soil.
That may seem a provocative statement but the officer's worth lies in knowing how to obtain secrets and those secrets will expertly inform decisions about what needs to be done in Libya.
Putting soldiers on the ground is usually a last resort because they would be there to fight or to be in a policing role and are illequipped to gather strategic intelligence.
By contrast, putting an MI6 operative on the ground may well be a first resort and can often avoid the unnecessary deployment of troops. The men and women who carry out these roles will have endured an extremely tough selection process to join MI6.

Many will have come straight from university, although over the past decade MI6 has been increasingly recruiting individuals who have other life experiences beyond their university degree. Successful applicants may come with backgrounds in business, law, financial services and academia among others.
All will be highly intelligent, lateral thinkers and typically they will be supremely self-confident, but not arrogant, and have a gregarious personality. A key quality is selfreliance.

While all MI6 operatives are team players, an officer in the field is typically working alone. He has to make rapid decisions on his own and rarely has access to the high-tech support or gadgetry that is displayed in the movies.

The reality of spycraft must also impinge on the desire for greater clarity about the work of MI6.

When there are calls for the service to be more transparent about its operations, a key argument used to defend its secrecy is that it is accountable to parliament and British law. This is true, but it must also be pointed out that if there were greater transparency, many MI6 operations would not only fail but people could die.

The foreign agents who work for MI6 put their lives in the hands of the intelligence officers who are running them. Some come from countries where spying is punishable by execution.
They are extremely brave men and women who are risking everything for us and in return have to know they are in safe hands and that everything about them remains a steel-wrapped secret.
Without that in place, they will no longer work for MI6 and we will be blind to current and future threats. The relationship between an MI6 officer and his or her agents is often misrepresented in the spy thriller genre. Agents are sometimes portrayed as pawns who can be sacrificed for the greater good or if they are deemed to be no longer of use.
The reality is wholly different. The bond between an officer and an agent is the closest there can be. It is intense and emotional. MI6 officers will often think of their agents as their family and will be as loyal to good agents as they are to Her Majesty's government.
However, MI6 does sometimes have to interact with undesirable people. That is the nature of the secret world and the work that needs to be done within it.

Everything MI6 does is conducted for a specific reason and with a clear objective. And if that means sitting down with a repulsive individual and calling him "my friend" to get something from him, then so be it. The revelations that MI6 worked closely with Gadaffi and his regime at a time when the West wanted him to "come in from the cold", halt his weapons programme and assist with combating Libyan Al-Qaeda members is not particularly surprising.

What is startling is how brilliant an MI6 initiative it was and how cleverly the result was achieved. The thornier issue of whether MI6 gave the names of some Britishbased Libyan terrorists to Gadaffi's security service will no doubt be examined. But it must be remembered that throughout its existence MI6 has been consistent that torture is unproductive as well as morally wrong and it has always judged its overseas counterparts by that belief.

I understand the desire to make MI6 more visible but it is vital that its field operatives are kept in the shadows. This is important so that when they hang up their combat boots after the wars are over, they can re-enter the traditional world of espionage without fear that they have been compromised. That is critical because traditional espionage will continue to target lethal, rogue states that have the capacity to start a global war.

The Times and The Sunday Times (Times Newspapers Limited.)

Spooks is rubbish and it's nothing like being a real spy, says John le Carré
By Simon Cable
Last updated at 3:21 PM on 17th September 2011
http://www.dailymail.co.uk/tvshowbiz/article-2037536/John-le-Carr--BBCs-Spooks-c-p-like-real-spy.html

Having worked for MI6 and written some of the most celebrated thrillers of the genre, John le Carré's views on modern spy drama must carry some weight.

And they won't make happy reading for the cast and crew of Spooks.

The veteran novelist, 79, has described the popular series as 'c**p'.

He told the Daily Mail: 'If you have lived in that world, you know that it is stupid.

'I mean, if you were a professional dancer and you saw a stupid series about dancing you would just turn it off, wouldn't you?

'I don't watch Spooks. It's c**p. I'm sorry. I have been in that world for almost half a century and once in it, you get a notion of what constrains you and what doesn't.

'The idea that people just go around shooting and killing people and so on is crazy.'

After studying at Oxford University, le Carré taught at Eton for two years, before joining the Foreign Office in 1959, serving first in Bonn and then in Hamburg - where he 'worked behind a desk' as part of his job for MI6 during the Cold War era.

It was then that he started to write and it was the international success of his third novel, The Spy Who Came In From The Cold, that saw him leave the service to write full-time.

Le Carre, whose real name is David John Moore Cornwell, has gone on to write more than 20 novels which have been translated into 36 languages.

Much of his work is based upon his experiences working for MI6. In 1990, he won the prestigious Helmerich Award for his contribution to literature.

'For me it was life. It was the only life I knew when I started writing,' he added.

'If I was working at sea, I would have written about the navy. But that was my reality during my most formative years and to see it sadly traduced and made comedic or turned into a kind of bus ride of fast cars and fast women is just junk.'

His 1974 best-seller Tinker, Tailor, Soldier, Spy has now been made into a film.

It stars Gary Oldman as fictional British Intelligence Officer George Smiley, a role originally made famous by Alec Guinness in the BBC's 1979 mini-series. It tells the story of Smiley's hunt for a mole within MI6.

Before filming began, screenwriters suggested updating the storyline and setting it in the modern-era, rather than the 1970s.

But le Carré insisted that nothing should be changed and is said to have constantly advised producers during filming to ensure that it remained faithful to his original work.

He has now praised the big-screen adaption, saying: 'Gary Oldman brought something to the part from the beginning which was never going to be possible with Alec Guinness.

'You couldn't really imagine Alec Guinness having a sex life in a word. You couldn't imagine a kiss on the screen with Alec, not one that you believed in.

'Whereas Oldman has quite obviously a male sexuality which he represses like all his other feeling in this story on the screen.

'I think the air of solitude and frustration which he is able to convey is something that really does take me back to the novel that I wrote 37 years ago.'

The final series of Spooks begins on Sunday. [*This last series was a belter*]

Telling the story of a group of MI5 officers, it has been running since 2002 and has been a huge hit with viewers, winning a Bafta for best drama series in 2003.

http://www.dailymail.co.uk/tvshowbiz/article-2037536/John-le-Carr--BBCs-Spooks-c-p-like-real-spy.html

I wonder if John le Carré is aware that nowadays boring books by old duffers don't drag in the viewers. No violence, no view – John le Carre's books sell to the literate, sadly TV appeals to more of the moronic masses too.   Simples Mr Esterhase......

[Thanks E]

Chart 1
M23 log September 2011

Date	Freq	//	Sun	Mon	Tue	Wed	Thu	Fri	Sat
02	5345							1800	
03	5345								1800
04	5345		1600						
05	5345			1600					
05	5345			1800					
06	5345				1600				
07	12279					0730			
07	5345					1600			
07	5345					1800	1800		
08	5345	8030							
13	5345	8030		1600					
13	5345	8030		1800					
20	5345	4980			0630				
20	5345	4980			0730				
20	5345	4980			0830				
20	5345	4980			1600				
20	5345	4980			1700				
20	5345	4980			1800				
21	5345	4980				0630			
21	5345	4980				0730			
21	5345	4980				0830			
21	5345	4980				1600			
21	5345	4980				1700			
21	5345	4980				1800			
22	5345	4980					0630		
22	5345	4980					0730		
22	5345	4980					0830		

5345kHz   1600z   15/09[246 246 246(R)]
5345kHz   1700z   15/09[246 246 246(R)]

5345kHz   1600z   19/09[246 246 246(R) = 31 31= 06519 05403 … 48586 17877 054] 1626z Very strong
5345kHz   1700z   19/09[246 246 246(R) = 32 32= 34197 06803 … 70484 03181 2158] 1727z Very strong
5345kHz   1800z   19/09[246 246 246(R) = 31 31= 57070 13809 … 11465 18239 3558o] 1826z Very strong

5345kHz   1600z   20/09[246(R15) =31 31 = 06519 05403 … 30450 71030 BT IMI IMI BT 31 31 BT 06519 …054] 1626z
5345kHz   1700z   20/09[246(R15) =32 32 = 34197 06803 … 30860 71479 BT IMI IMI BT 32 32 BT 34197 … 79w] 1726z
5345kHz   1800z   20/09[246(R15) =31 31 = 57070 13806 … 60831 32257 BT IMI IMI BT 31 31 BT 57070 …35589] 1626z

5345kHz   0629z   21/09[246(R15) =31 31 = 06519 05403 … 30450 71030 BT IMI IMI BT 31 31 BT 06519 … 054] 0656z
4980kHz   0729z   21/09[246(R15) =32 32 = 34197 06803 … 30860 71479 BT IMI IMI BT 32 32 BT 34197 … 215t] 0756z
5345kHz   0831z   21/09[246(R15) =31 31 = 57070 13806 … 60831 32257 BT IMI IMI BT 31 31 BT 57070 …3558o] 0856z
5345kHz   1600z   21/09[246(R15) =31 31 = 06519 05403 … 30450 71030 BT IMI IMI BT 31 31 BT 06519 …054] 1626z
5345kHz   1700z   21/09[246(R15) =32 32 = 34197 06803 … 30860 71479 BT IMI IMI BT 32 32 BT 34197 … 215T] 1726z
5345kHz   1800z   21/09[246(R15) =31 31 = 57070 13806 … 60831 32257 BT IMI IMI BT 31 31 BT 57070 …35580] 1826z

5345kHz   0629z   22/09[246(R15) =31 31 = 06519 05403 … 30450 71030 BT IMI IMI BT 31 31 BT 06519 … 054] 0656z
5345kHz   0729z   22/09[246(R15) =32 32 = 34197 06803 … 30860 71479 BT IMI IMI BT 32 32 BT 34197 … 215n] 0756z
5345kHz   0829z   22/09[246(R15) =31 31 = 57070 13806 … 60831 32257 BT IMI IMI BT 31 31 BT 57070 …3558o] 0856z

Mon: 19 Tue: 20 Wed: 21 Thu: 15 & 22

Chart 2
M23 October Activity Chart

Freq 5345	// 4951	14 FRI	15 SAT	16 SUN	17 MON	18 TUE	19 WED	20 THU	Time Fin	Stn ID	Additional Comments
								0618			Blip
			0834								Blip
						0859	0859				Blip
				0936							Blip
				0940							Blip
						0959	0959				Blip
			Off Watch	1003							Blip
				1025	1025	1025	1025				Blip
				1029	1029	1029	1029			246	15 mins
						1059					Blip
				1125	1125	1125	1125				Blip
					1129	1129	1129			246	15 mins
			1130							246	In progress
			1159	1159	1159	1159	1159				Blip
			1259	1259	1259	1259	1259				Blip
					1338						Blip
		1359	1359	1359	1359	1359					Blip
		1414		1415	1415						Blip
		1419	1419	1419	1419					246	15 mins
			1459		1459	1459	1459				Blip
		1514	1515	1515	1515						Blip
		1519	1519	1519	1519					246	15 mins
					1559	1559					Blip
					1659	1659					Blip
					1714						Blip
					1759						Blip
		FRI	SAT	SUN	MON	TUE	WED	THU			

5345kHz 1130z   15/10[i/p 246(R)] 1136z Very strong //4951kHz

5345kHz 1029z   16/10[246(R)] 1051z Very strong //4951kHz
5345kHz 1129z   16/10[246(R)] 1051z Very strong //4951kHz
5345kHz 1419z   16/10[246(R)] 1442z Very strong //4951kHz
5345kHz 1519z   16/10[246(R)] 1542z Very strong //4951kHz

5345kHz 1029z   17/10[246(R)] 1051z Very strong //4951kHz
5345kHz 1129z   17/10[246(R)] 1051z Very strong //4951kHz
5345kHz 1419z   17/10[246(R)] 1434z Very strong //4951kHz
5345kHz 1519z   17/10[246(R)] 1534z Very strong //4951kHz

5345kHz 1029z   18/10[246(R)] 1051z Very strong //4951kHz
5345kHz 1129z   18/10[246(R)] 1051z Very strong //4951kHz

5345kHz 1029z   19/10[246(R)] 1044z Very strong //4951kHz
5345kHz 1129z   19/10[246(R)] 1144z Very strong //4951kHz

5345kHz 1658z   28/10[579(R)] 1710z Strong //4951

Sun : 16 Mon: 17 Tue: 18 Wed: 19 Thu: 20 Fri: 14 & 28

Chart 3
M23 Known Frequencies

<mark>Recently Active</mark>

4030	6806	9069	11000	13400
<mark>4980</mark>	6937	9120	11170	13417
<mark>4951</mark>	6961	9125/8	11422	13454
	6961	9143	11429/30	
		9218	11442	
		9245		
		9750		
5182	7542			
<mark>5345</mark>	7785			
5450	7920			
5665				
5670			12170	14450
5760			12200	14600
5914		10000	12220	14710
		10551	12279	
		10650	12700	
		10708		
		10780		
		10916		
	<mark>8030</mark>			
	8150			
	8810			

M23 Charts

Chart1, headed September 2011:

Shews the schedules that took place. Dates from 2nd to 13th being taken from the NL whilst those from 20th to 22nd inclusive are my own intercepts

Chart 2, headed October Activity Chart:

This is shewing activity from Friday 14th to Thursday 20th inclusive. This is detailed in order to try and understand the working of the group. In this instance the regular procedural transmissions for null messages, the blip/tones used, rather than actual message transmissions.

Chart 3:

A list of frequencies used by M23. These have been extracted from back numbers of the Newsletter.

Comment:

My searched range at present is 4000 to 6000kHz with the last used frequencies guarded from 0700 to 2200z.
RDF bearings have been taken and I am waiting for one other to complete the triangulation.

Any comments or information from members is always welcome

73
Derek, G3LKO

I have been gathering information regarding E06's Sat/Sun 0030/0130z transmissions. I have been looking through the old E2K newsletters for the information.

As far as I can see, the first known log of this schedule is Sun 24/05/2009 0030z 8099kHz, so all information is from that date to the present transmission.

I have been focusing my attention to the code key, group count and first group of all transmissions to date. Some interesting factors have come to light.

Firstly, known group counts for this schedule are 30, 31, 32, 33, 34, 36, 38, 40, 41, 42, 43 and 48. No group counts have ever been logged for 44 and 46, but they should exist. I have also noticed that in relation to the group count, the code key has a combination of numbers that are related to the group count. See below.

There has been a total of 14 messages with 30 groups. Possible code key combinations include these figures 0,1,2,4,6 and 8.
There has been a total of 40 messages with 31 groups. Possible code key combinations include these figures 0,2,4,6 and 8.
There has been a total of 23 messages with 32 groups. Possible code key combinations include these figures 0,1,2,4,6 and 8.
There has been a total of 1 message with 33 groups. Code key for this message 218.
There has been a total of 12 messages with 34 groups. Possible code key combinations include these figures 0,1,2,4,6 and 8.
There has been a total of 12 messages with 36 groups. Possible code key combinations include these figures 0,1,2,4 and 8.
There has been a total of 8 messages with 38 groups. Possible code key combinations include these figures 1,2,4 and 6.
There has been a total of 3 messages with 40 groups. Possible code key combinations include these figures 1,2,3,6 and 8.
There has been a total of 3 messages with 41 groups. Possible code key combinations include these figures 0,2,3,6 and 8.
There has been a total of 4 messages with 42 groups. Possible code key combinations include these figures 1,3,6 and 8.
There has been a total of 1 message with 43 groups. Code key for this message 108.
There has been a total of 1 messages with 48 groups. Code key for this message 306.

Total known messages logged 122 messages.
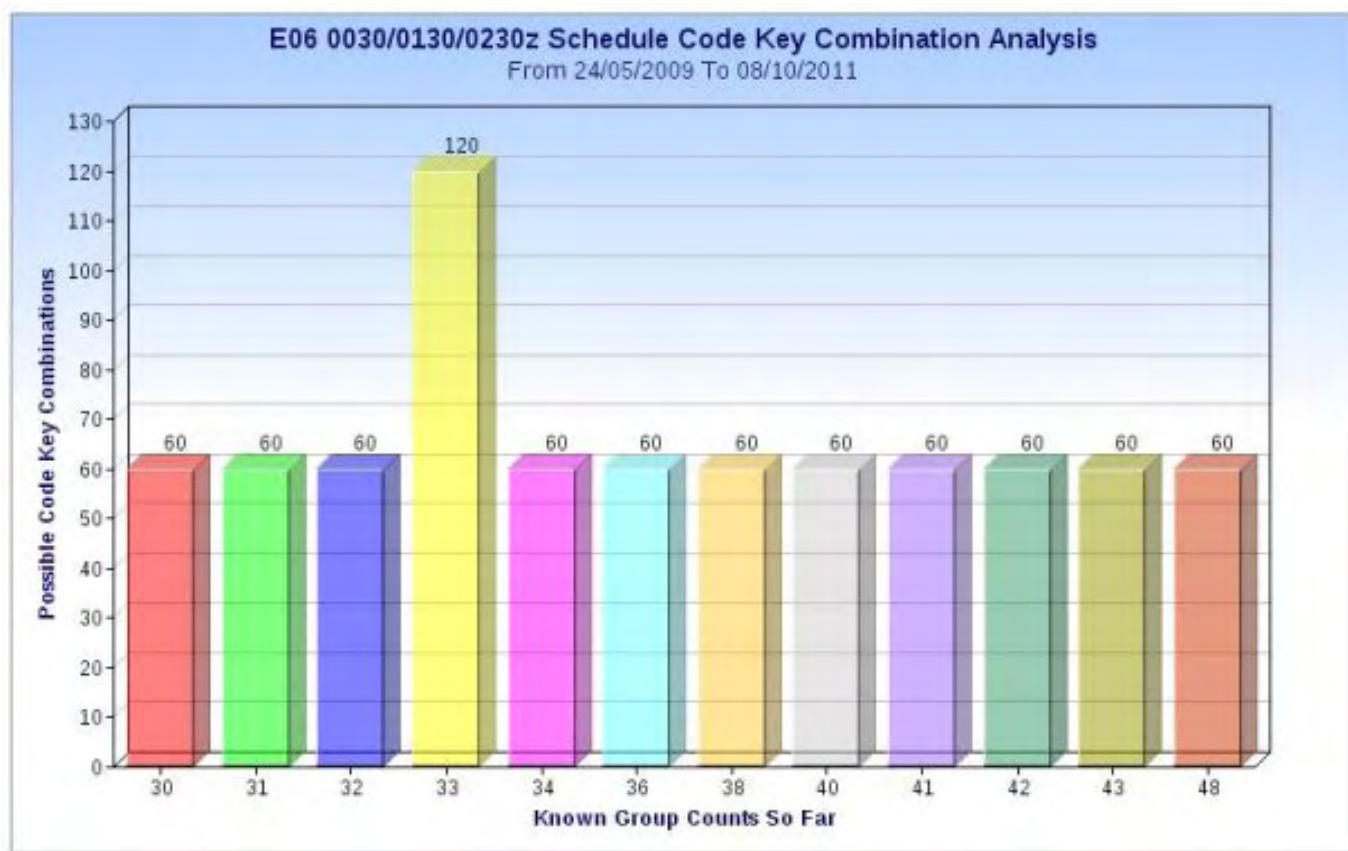
Haven't you noticed it yet? In all messages the figures 5,7 and 9 have not appeared in either the code key or group count. So if this information is true, the id 759 may not actually be just an agent id, but have some other purpose in relation to the message.

There has been some repeat code keys used in other messages, and there has been some repeat first groups in messages also.

Possible code key sequence from a 30 group message.

124 30	214 30	412 30	612 30	812 30
126 30	216 30	416 30	614 30	814 30
128 30	218 30	418 30	618 30	816 30
142 30	241 30	421 30	621 30	821 30
146 30	246 30	426 30	624 30	824 30
148 30	248 30	428 30	628 30	826 30
162 30	261 30	461 30	641 30	841 30
164 30	264 30	462 30	642 30	842 30
168 30	268 30	468 30	648 30	846 30
182 30	281 30	481 30	681 30	861 30
184 30	284 30	482 30	682 30	862 30
186 30	286 30	486 30	684 30	864 30

I never really thought that the id was of any real importance, until I started looking at all of the message headings. It is obvious these messages are mathematically worked out. And each item appears to be of importance, and are related to each other. If an item of the message was wrong, then it would be impossible to decode properly.

I am still looking into the code key, and it appears it is possible to work out the whole code key sequence given a few simple rules.

For example:

A total of 60 combinations can be used per group count, given the rule figures 0,3,5,7 and 9 can not be used in the code key sequence in a 30 group message and each figure can only be used once in the code key.

Here are a few sample messages with a 30 group message.

Sat 15/08/2009 0030z 7981kHz 759 216 30 71514
Sat 04/09/2010 0030z 6874kHz 759 168 30 91512
Sat 19/02/2011 0130z 5846kHz 759 416 30 39165

As you can see, the code key sequences 216,168 and 416 all appear in my predicted number sequence. Given the simple rule that 0,3,5,7 and 9 can not be used, and each figure can only be used once in the code key.

So when a message has a different group count, that would mean there will be another 60 possible code key sequences.
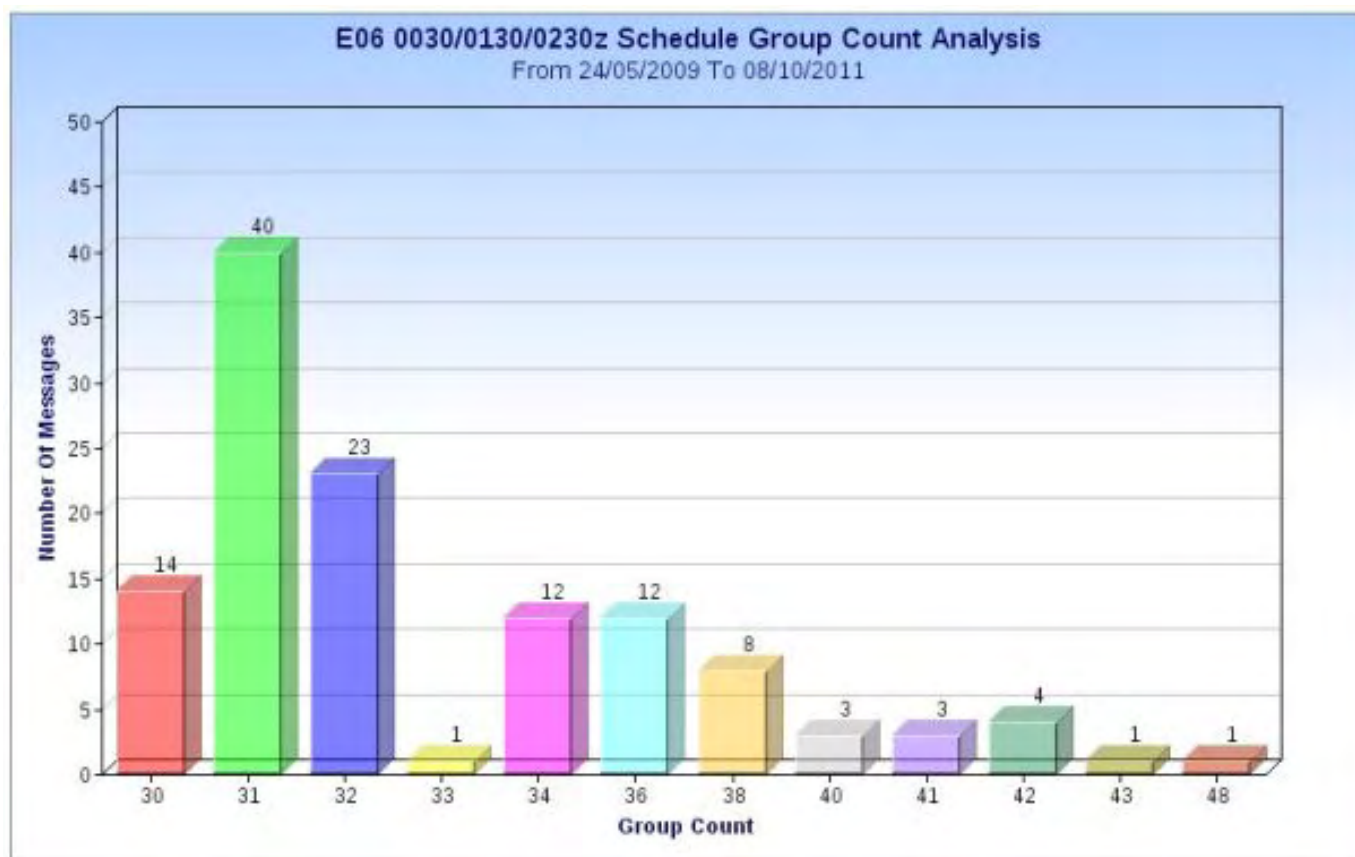
I think that finding the code key sequence is kind of a starting block to trying to decode these messages. The question is how do they apply the code key to the actual message, I still think they use a list of numbers that is used to decode the message into actual text. I think the code key is a reference number to the actual number sets, so that means an E06 759 31 group message will have 60 possible number sets or lists to decode the message. I don't think the call id is actually an agent id, I think the call could possibly be an issue number for the one time pad. So the one time pad 759, will always follow the rules that the numbers 5,7 and 9 including the group count are always not included in the code key. So each one time pad with a different issue number will have a completely different collection of number sets, however the same rules will apply to each one time pad. This could mean that more than one individual could have the one time pad with the issue number 759. Maybe this is why 759 has never went on holiday, in the 2 and a half years the schedule has been running.

Comparing E06 with S06

Here is another example with some different factors:

When I first worked out the possible code key combinations for the E06 0030/0130/0230z schedule. I originally thought that the group count could not occupy the same numbers which appear in the call id. But after receiving a recent S06 message, I could see that the group count did infact have a repeat figure in relation to the call id.

For example:

S06 7760kHz 2115z 10/10 [621 485 92 86476 ... 03431 485 92 00000]

As you can see the call id 621 shares the same figure 2 in the group count 92.

034 92	304 92	403 92	503 92	703 92	803 92
035 92	305 92	405 92	504 92	704 92	804 92
037 92	307 92	407 92	507 92	705 92	805 92
038 92	308 92	408 92	508 92	708 92	807 92
043 92	340 92	430 92	530 92	730 92	830 92
045 92	345 92	435 92	534 92	734 92	834 92
047 92	347 92	437 92	537 92	735 92	835 92
048 92	348 92	438 92	538 92	738 92	837 92
053 92	350 92	450 92	540 92	740 92	840 92
054 92	354 92	453 92	543 92	743 92	843 92
057 92	357 92	457 92	547 92	745 92	845 92
058 92	358 92	458 92	548 92	748 92	847 92
073 92	370 92	470 92	570 92	750 92	850 92
074 92	374 92	473 92	573 92	753 92	853 92
075 92	375 92	475 92	574 92	754 92	854 92
079 92	378 92	478 92	578 92	758 92	857 92
083 92	380 92	480 92	580 92	780 92	870 92
084 92	384 92	483 92	583 92	783 92	873 92
085 92	385 92	485 92	584 92	784 92	874 92
087 92	387 92	487 92	587 92	785 92	875 92

Here are the results:
Possible number combinations on a 92 group message, sharing at least 1 figure from the call id.

A total of 120 code key combinations can be worked out, given the simple rules of 2,1,6 and 9 are not included in the code key and each figure can only be used once.
So when the group count has the same figures as the call id, a greater number of combinations can be made. This is because there are only 4 figures not to be included in the code key where as E06's 759 30 group message had 5 figures not to be included in the code key, given a total of only just 60 combinations.

E06 Message detail investigated
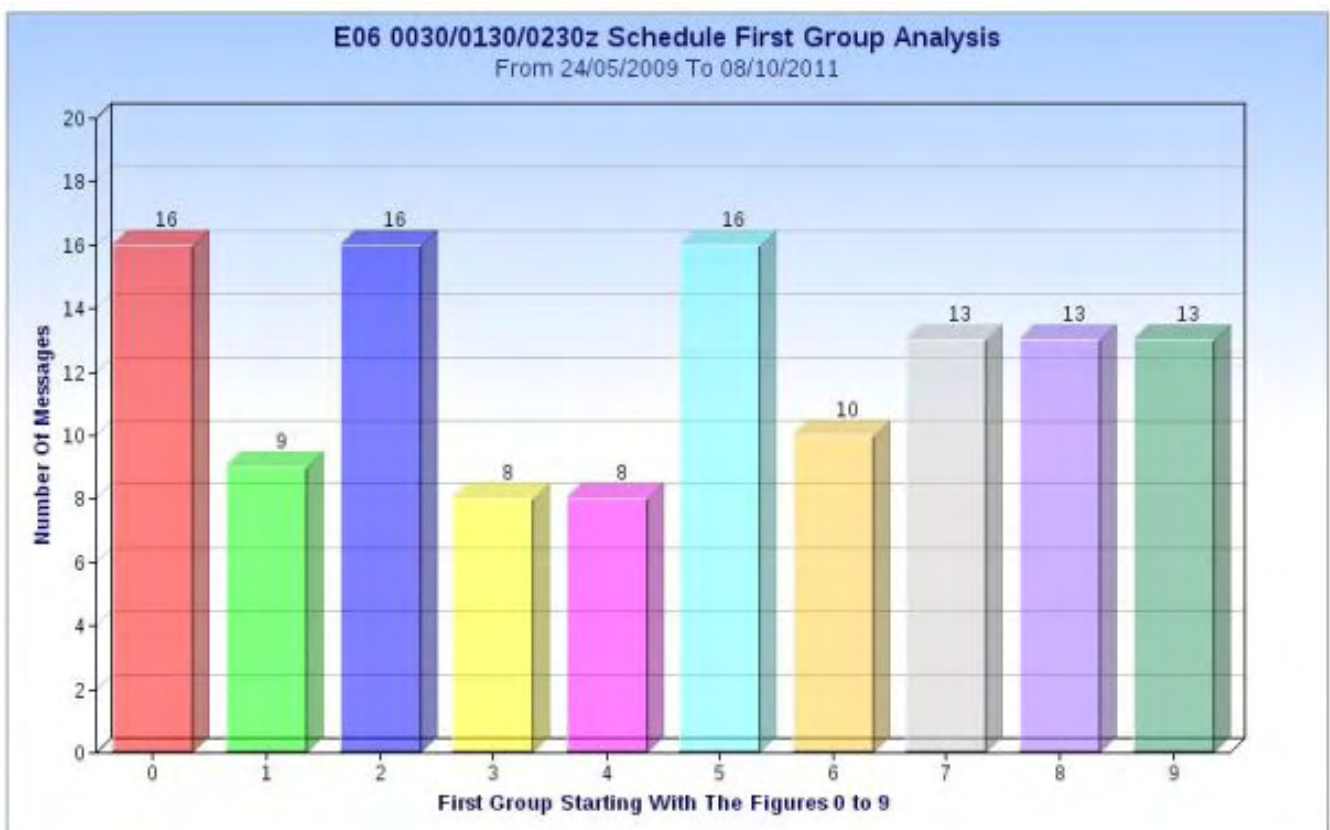
Sat 06/02/2010	0130z	5846kHz	759 261 30 00410
Sat 03/04/2010	0030z	6918kHz	759 410 32 00410
Sat 01/05/2010	0030z	8099kHz	759 146 32 00410
Sat 21/08/2010	0030z	7981kHz	759 326 40 23661
Sat 17/10/2010	0030z	6797kHz	759 218 36 23661
Sat 12/12/2009	0130z	5796kHz	759 142 32 58712
Sat 06/03/2010	0130z	5879kHz	759 803 41 58712

I have come across some repeated first groups in some of the messages, indicating that these messages are the same.

Notice the code keys and group counts are different, but the first groups are the same.

As far as the first group goes, I don't see many common patterns given that all figures from 0 to 9 are used. However there are a few exceptions.

Sat 03/10/2009	0030z	6797kHz	759 248 31 25676
Sat 28/11/2009	0130z	5837kHz	759 406 31 25632
Sat 27/03/2010	0130z	5879kHz	759 428 36 25683

Notice the 256 combination in the first group.

Sat 25/07/2009	0030z	9061kHz	759 684 32 55664
Sat 10/07/2010	0030z	9061kHz	759 102 34 55688

And 556 in this one.

Sat 23/10/2010	0030z	6797kHz	759 421 38 80193
Sat 15/01/2011	0130z	5783kHz	759 861 32 80153

And lastly 801.

Message Priority.

By looking at the bar chart "E06 0030/0130/0230z Schedule Code Key Combination Analysis", you can clearly see the priority of the message.

. Because only one message was sent with a 33 group count, while all the other messages appear to be of standard priority. So if you have a greater code key combination means the message is of a higher priority than others.

This means in the E06 0030/0130/0230z schedule, all group counts that have these figures 33, 35, 37, 39, 44, 45, 47, 49 and 50. Should have a higher priority than other standard messages.

For example.

759 33 only has 4 factors not to include in the code key. These factors are 3,5,7 and 9. Total possible code key combinations 120.

But a normal priority message will have 5 factors not to include in the code key.

For example.

759 31 has 5 factors not to include in the code key. These factors are 1,3,5,7 and 9. Total possible code key combinations 60.

Remember the greater amount of factors there are, the smaller the code key combination will be. Meaning the lesser amount of code key combinations there are, the greater chances the message will be able to be decoded.

How the messages can be worked out.

Work out the code key combinations by not including the call id from the group count.

For example:

759 31, the figures 1,3,5,7 and 9 are not to be included in the code key. So that leaves the figures 0,2,4,6 and 8 can be used in the code key. And each figure can only be used once.

024
246
486 E.t.c.

In the case 759 31, there should be a total 60 possible code key combinations. And a total of 60 number sets also.

If it is possible to work out the code key combinations by using the call id and group count then it is also possible to work out the number set for the message, by using the call id with the code key.

Here is how it is done.

Take the call id 759, and the code key 486 for example.

Divide the call id from the code key. 759/486 = 1.5617283

As you will know already, the possible total combinations for a 5 figure system are from 0 to 99999.

But if you run a simple computer program which will count from 0 to 99999, it will count from 0 to 99999 in steps of 1.

So what we need to do, to produce a number set for a message is to create a computer program that will also count from 0 to 99999 but with the step of 1.5617283, so the computer program will not just count from 1,2,3,4,5 e.t.c.

Here is a simple computer program written in the old style BASIC language. Any old computer from the 1980's with BASIC as it's first language will run the program. However I wrote this simple program on a Windows PC based program called Just Basic, this program can be downloaded from the internet for free.

Here is the program:

```
10 rem number set generator
20 rem id divided by code key
30 for n=0 to 10000
40 let n=n+1.5645284:rem place your answer here
50 print "0";n,n+10000,n+20000,n+30000,n+40000,n+50000,n+60000,n+70000,n+80000,n+90000
60 next n
```

When you run this simple program, it will start producing the number set for the id 759 with the code key 486.

The program will produce a total of 80000 possible combinations. If the code key has a smaller value, the calculation will be much higher, that means the possible combinations will be much less.

Now use a number station broadcast to compare the number sets. In this case we will use the E06 message that was transmitted on 08/10/2011.

Here is the message:

759 486 31
73698 59990 24994 02032 93843 43542 57973 48391 59807 78478
29610 48302 52650 32468 65144 37407 72824 93987 12992 62937
57240 26369 58727 72375 16342 21942 39559 04569 83391 17212
63973
486 31 00000

Now here are the results taken from the computer program:

73697 59990 24994 02032 93843 43543 57972 48392 59808 78477
29610 48302 52650 32468 65143 37407 72825 93986 12991 62937
57251 26369 58728 72376 16341 21942 39559 04568 83391 17213
63974

As you can see the results are very close, to the original message. The number set is slightly out by plus or minus 1 figure.

So why can this happen, when the results are so close?

I think the problem lies in the computers processor. How calculations are worked out depends on the processor speed of the computer. It is obvious calculators and computers have different processing speeds, and this effects the output of the calculations. Older computers are much slower so therefore the calculations will be less acurate than more modern computers.

For example:

My mobile phone calculates 759/486 = 1.5617283
My computer calculates 759/486 = 1.5617284

So to try and get the number set to work as close as I can, I had to tweek the output figure slightly to:

1.5645284

Take into account how long number stations have been around, the chances are much older equiptment was used to create the number message system. So the posibility of mechanical calculating equiptment was used to make the original number sets, and this system may have never been replaced. So if this is true, that means the calculations used to create the number sets are not very acurate in relation to our modern computers.

Even if the results of the number set wasn't very acurate, what has been established with this analysis, is the relation between call id, code key, group count and message. And how the number system works.

Here is the big question everyone want's to know.

Can number stations ever be decoded?

And the answer to this is probably not. The reason why these messages can't be broken, is because we don't know how the 5 figure groups are used. My guess is the 5 figure groups, are a reference number to either a single letter, a word, a line or even a paragraph of text.

For example:

16002 = Mary	26002 = Mary	36002 = Mary	46002 = Mary	56002 = Mary
16005 = Susan	26005 = Susan	36005 = Susan	46005 = Susan	56005 = Susan
16007 = Adam	26007 = Adam	36007 = Adam	46007 = Adam	56007 = Adam

As you can see in the example above, the 5 figure groups represent a single word. However many combinations of the same word may be used, so the other party won't see a pattern in the message. That is why you seldom see many repeat groups in the messages.

It could be possible that paragraphs of text are used for each 5 figure group, so a message with over 100 groups could contain as much data as a large document or even a small book.

But whatever these stations are sending and to whom, still remains a mystery.

Number set for call id 759 with the code key 486.

Note figures maybe slightly out by plus or minus 1 number.

Total number of combinations are 80000.

01.5645284	10001.5645	20001.5645	30001.5645	40001.5645	50001.5645	60001.5645	70001.5645	80001.5645	90001.5645
04.1290568	10004.1291	20004.1291	30004.1291	40004.1291	50004.1291	60004.1291	70004.1291	80004.1291	90004.1291
06.6935852	10006.6936	20006.6936	30006.6936	40006.6936	50006.6936	60006.6936	70006.6936	80006.6936	90006.6936
09.2581136	10009.2581	20009.2581	30009.2581	40009.2581	50009.2581	60009.2581	70009.2581	80009.2581	90009.2581
011.822642	10011.8226	20011.8226	30011.8226	40011.8226	50011.8226	60011.8226	70011.8226	80011.8226	90011.8226
014.3871704	10014.3872	20014.3872	30014.3872	40014.3872	50014.3872	60014.3872	70014.3872	80014.3872	90014.3872
016.9516988	10016.9517	20016.9517	30016.9517	40016.9517	50016.9517	60016.9517	70016.9517	80016.9517	90016.9517
019.5162272	10019.5162	20019.5162	30019.5162	40019.5162	50019.5162	60019.5162	70019.5162	80019.5162	90019.5162

……………… *47 pages of number listings ending with*…………………

09980.14453	19980.1445	29980.1445	39980.1445	49980.1445	59980.1445	69980.1445	79980.1445	89980.1445	99980.1445
09982.70906	19982.7091	29982.7091	39982.7091	49982.7091	59982.7091	69982.7091	79982.7091	89982.7091	99982.7091
09985.27359	19985.2736	29985.2736	39985.2736	49985.2736	59985.2736	69985.2736	79985.2736	89985.2736	99985.2736
09987.83812	19987.8381	29987.8381	39987.8381	49987.8381	59987.8381	69987.8381	79987.8381	89987.8381	99987.8381
09990.40265	19990.4026	29990.4026	39990.4026	49990.4026	59990.4026	69990.4026	79990.4026	89990.4026	99990.4026
09992.96717	19992.9672	29992.9672	39992.9672	49992.9672	59992.9672	69992.9672	79992.9672	89992.9672	99992.9672
09995.5317	19995.5317	29995.5317	39995.5317	49995.5317	59995.5317	69995.5317	79995.5317	89995.5317	99995.5317
09998.09623	19998.0962	29998.0962	39998.0962	49998.0962	59998.0962	69998.0962	79998.0962	89998.0962	99998.0962

Thanks Male Anon

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
	٠	١	٢	٣	٤	٥	٦	٧	٨	٩

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

	S11a Cherta	*S11 Kreska*	Actual Polish[S11]	*S10d*	*S17c*
0	nul	zero	zero	Nula*	Nula*
1	adinka	yezinka	jedynka	Jeden^	Jeden^
2	dvoyka	dvonta	dwójka	dva	dva
3	troyka	troika	trójka	tri '	tri '
4	chetyorka	chidiri	cztery	shytri	shytri
5	petyorka	peyonta	piątka	pyet	pyet
6	shest	shes	sześć	shest	shest
7	syem	sedm	siedem	sedoom	sedoom
8	vosyem	osem	osiem	Osoom~	Osoom~
9	dyevyet	prunka	dziewięć	devyet	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	Nov kHz, ID, ...	Dec kHz, ID, ...	General Remarks
					x	x	0230		E06	01A	5837 759	5796 759	
					x	x	0330		E06	01A	4583 759	4516 759	
	x		x				0440/0500/0520		M12	01B	5872/ 6772/ 7672 876	4443/ 5043/ 5843 408	
x							0450		E11	03	5082 416/00	5082 416/00	since 02/10, **last log 09/11**
		x					0530/0540		S06S	01A	9435,11075 153	9435,11075 153	
		x					0530/0550/0610		E07A	01B	5146/ 5846/ 6846 188	5146/ 5846/ 6846 188	
		x		**x**			**0545**		**E11**	**03**	**348/00, search**	**348/00, search**	**since 06/11, last log 09/11**
		x					0600/0610		S06S	01A	5460/ 7070 934	5460/ 934, search	
x							0600/0620/0640		M12	01B	6795/ 7995/ 9295 792	4508/ 5808/ 6808 588	
			x	x			0600/0700		E06	01A	507, search	462, search	
	x		x				0645		E11	03	7840 517/00	7840 517/00	since 07/09, **last log 10/11**
			x	x			0700		E06	01A	18200 507	15940 462	
						x	0700		M01	14	5465 197	5465 197	
		x					0700/0710		S06S	01A	7150/ 8215 916	7150/ 8215 916	
	x						0700/0710(15)		S06S	01A	5250/ 6320 374	5250/ 6320 374	
		x					0700/0720/0740		M12	01B	9338/10638/12138 238	8060/ 9060/10160 238	
	x		x				0710		E11	03	10800 633/00	10800 633/00	since 02/11, **last log 10/11**
			x				0800		E17Z	01A	11170, 9820 674	11170, 9820 674	
x							0800		G06	01A	5363 215	5363 215	since 07/10, **last log 10/11**
	x						0800/0810		S06S	01A	10265/ 9135 352	10265/ 9135 352	
	x	x					0800/0810		S06S	01A	5810/ 7440 418	5810/ 7440 418	
	x		x				0800/0820/0840		E07	01B	5867/ 6767/ 7367 873	5234/ 5734/ 278, search	
x		x					0800/0820/0840		M12	01B	17427/15827/14527 485	14819/13919/12219 892	
	x		**x**				0820		E11	03	7317 438/00	7317 438/00	since 10/09, **last log 10/11**
			x			x	0820		M03	03	4828 761/00	4828 761/00	since 11/10, last log 08/11
		x					0820/0830		S06S	01A	6880/ 7840 471	6880/ 7840 471	
x			x				0830		E11	03	9446 649/00	9446 649/00	since 01/10, **last log 10/11**
	x						0830/0840		S06S	01A	7335/11830 745	7335/11830 745	
		x					0840/0850		S06S	01A	9260/11415 328	9260/11415 328	
x	x						0900		E11	03	9446 534/00	9446 534/00	since 10/09, **last log 10/11**
		x		x			0900		E11	03	4441 248/00	4441 248/00	since 02/10, **last log 10/11**
		x					0900/0910		S06S	01A	12952/13565 167	12952/13565 167	
	x		x				0915		S11A	03	7504 484/00	7504 484/00	since 01/10, **last log 09/11**
		x	x				0930		E11	03	9079 270/00	9079 270/00	since 02/10, **last log 10/11**
			x				0930/0940		S06S	01A	11780/12570 516 9445/10195 search	11780/12570 516 9445/10195 search	
x			x				0940		G11	03	6480 275/00	6480 275/00	since 01/10, **last log 10/11**
	x						1000/1010		S06S	01A	12365/14280 729	12365/14280 729	
x			x				1015		S11A	03	12530 475/00	12530 475/00	since 04/10, **last log 10/11**
	x			x			1020		S11A	03	9610 426/00	9610 426/00	since 02/10, **last log 10/11**
	x				x		1020		S11A	03	6433 221/00	6433 221/00	since 01/09, **last log 10/11**
	x	x					1045		E11	03	8091 469/00	8091 469/00	since 03/10, **last log 10/11**
x						x	**1045/1050**		E11	03	4441 127/00	4441 127/00	since 01/10, **last log 10/11**
	x	x	x				1115		M03	03	4828 272/00 (Tue) & 650/00 (Wed/Thu)	4828 272/00 (Tue) & 650/00 (Wed/Thu)	since 10/09, **last log 10/11**

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Nov kHz, ID, ...	Dec kHz, ID, ...	General Remarks
	x			x			1135/1140		M03	03	5358 786/00	5358 786/00	since 02/10, **last log 10/11**
		x	x			x	1155		E11	03	718/00, search	718/00, search	since 04/11, **last log 10/11**
		x					**1200**		**G06**	**01A**	**4778 439**	**4778 439**	**since 01/11, last log 10/11**
	x						1200/1210		S06S	01A	7030/ 6305 481	7030/ 6305 481	
		x					1200/1210		S06S	01A	10580/9950 (12155/10920) 425	10580/9950 (12155/10920) 425	
					x		1200/1210		S06S	01A	/ 8260 254, search	/ 8260 254, search	
	x						1230/1240		S06S	01A	5810/ 6770 278	5810/ 6770 278	
			x				1230/1240		S06S	01A	4580/ 6420 967	4580/ 6420 967	
			x				1230/1240		S06S	01A	7865/ 5310 314	7865/ 5310 314	
	x					x	1240		E11	03	4958 349/00	4958 349/00	since 08/09, **last log 10/11**
x							1300/1320/1340		M12	01B	15712/14375/ 734	15612/14832/14365 683	
x							1300/1310		S06S	01A	8420/10635 831	8420/10635 831	
			x			x	1320		M03	03	4828 438/00	4828 438/00	since 02/11, **last log 10/11**
				x	x		1325		G11	03	6433 299/00	6433 299/00	since 03/10, **last log 10/11**
x						x	1355		S11A	03	4441 254/00	4441 254/00	since 01/11, **last log 09/11**
	x					x	1400/1420/1440		XPA	01B	5867/ 5467/ 4567	5767/ 5267/ 4467	
			x				1400/1410		S06S	01A	5320/ 4845 624	5320/ 4845 624	
			x		x		1445		E11	03	4441 267/00	4441 267/00	since 01/10, **last log 10/11**
					x		1500		M01	14	5810 197	5810 197	
	x						1500/1510		S06S	01A	5070/ 6337 537	5070/ 6337 537	
	x			x	x		1535		M03	03	5358 798/00	5358 798/00	since 11/10, **last log 09/11**
x						x	1540		E11	03	228/00, search	228/00, search	since 03/11, **last log 10/11**
					x		1600 (1605)		S06	01A	7728/ 6788 134	7728/ 6788 134	changing IDs
x							1600/1610		S06S	01A	7436/ 6668 176	7436/ 6668 176	
			x				1505		M01B	14	5938 159	5938 159	
			x				1615		M01B	14	5810 158	5810 158	
x							1700		G06	01A	3514 892	3514 892	since 04/10, **last log 10/11** yearly changing id
			x				1730		E11	03	5082 416/00	5082 416/00	since 03/10, **last log 10/11**
	x					x	1755		G11	03	6433 270/00	6433 270/00	since 02/10, **last log 10/11**
x							1800		G06	01A	4458 892	4458 892	since 05/09, **last log 10/11** yearly changing id
	x		x				1800		M01	14	5320 197	5320 197	
	x						1800		S06	01A	3645 617	3645 617	
			x				1800 (1805)	1/2	S06	01A	3540/ 3160 471	3540/ 3160 471	changing IDs
x			x				1800/1820/1840		M12	01B	9176/ 7931/ 6904 257	9176/ 7931/ 6904 257	
			x			x	1800/1820/1840		E07	01B	8183/ 6982/ 5938 199	6982/ 5836/ 4938 989	
			x				1800/1820/1840		M12	01B	8047/ 6802/ 5788 463	8047/ 6802/ 5788 463	
	x		x				1802		M45	14	3525, 4025 525	3525, 4025 525	
	x						1820		M14	01A	4636 186	4636 186	
			x				1830	2/4	G06	01A	4519 271	4519 271	since 05/01, **last log 10/11**
			x			x	1830/1850/1910		M12	01B	9117/ 7918/ 7418 194	9117/ 7918/ 7418 194	
	x		x				1842		S21	14	3323, 3823 323	3323, 3823 323	
x			x				1900 (1905)		S06	01A	3192/ 3838 349	3192/ 3838 349	changing IDs
	x		x				1900/1910		S06S	01A	8530/ 7520 371	8530/ 7520 371	
x							1900/1920/1940		M12	01B	9176/ 7931/ 6904 257	9176/ 7931/ 6904 257	

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Nov kHz, ID, ...	Dec kHz, ID, ...	General Remarks
			x				1900/1920/1940		M12	01B	10343/ 9264/ 8116 124	10343/ 9264/ 8116 124	
	x		x				1900/1920/1940		XPA	01B	8123/ 7523/ 6823	8164/ 7364/ 5864	
x							1910		M01B	14	2435, 3519 853	2435, 3519 853	
		x					1920/2020	2	E06	01A	4036/ 829, search	4036/ 829, search	
		x					1920	2/4	M14	01A	4761 748	4761 748	
				x			1930	2/4	G06	01A	4792 436	4792 436	since 04/01, **last log 10/11** rpt of Thu 1830Z
					x		1930 (1935)		S06	01A	3209/3842 366	3209/3842 366	changing IDs
			x				1932		M01B	14	2466, 3545 910	2466, 3545 910	
				x		x	2000		G11	03	4441 262/00	4441 262/00	since 01/11, **last log 10/11**
	x		x				2000		M01	14	4490 197	4490 197	
x		x					2000/2020/2040		E07	01B	7724/ 6924/ 5824 798	7478/ 6778/ 5278 472	
x		x					2000/2020/2040		M12	01B	9176/ 7931/ 6904 257	9176/ 7931/ 6904 257	
				x	x		2000/2100	1/3	M14	01A	4830/ 4471 724	3825/ 4470 724	
			x				2002		M01B	14	2655, 3197 866	2655, 3197 866	
x							2015		M01B	14	2427, 3205 375	2427, 3205 375	
			x				2030		E06	01A	4836 321	4836 321	
			x				2042		M01B	14	2485, 3160 382	2485, 3160 382	
		x					2100/2120/2140		E07A	01A	5864/ 5164/ 4564 815	5864/ 5164/ 4564 815	
			x				2110		M01B	14	2405, 3180 610	2405, 3180 610	
			x				2110/2130/2150		E07	01B	6777/ 5449/ 4483 774	6777/ 5449/ 4483 774	
x							2115/2215	2/4	S06	01A	7750/ 5410 218, search	6835/ 5182 632, search	
			x				2130		E06	01A	4760 472	4760 472	
		x					2200/2220/2240		M12	01B	5429/ 4629/ 4029 460	5312/ 4512/ 350, search	

Prediction Nov/Dec   26.10.2011

M01 M01b M45 Frequency Schedule 2009

M01 Sunday

	Jan	Feb	Mar	Apr	May	Jun	Jly	Aug	Sept	Oct	Nov	Dec
ID	**197**	**197**	**463**	**463**	**025**	**025**	**025**	**025**	**463**	**463**	**197**	**197**
0700	5464	5464	6508	6508	6780	6780	6780	6780	6508	6508	5464	5464

M01b Monday

	Jan	Feb	Mar	Apr	May	Jun	Jly	Aug	Sept	Oct	Nov	Dec
ID				**420**	**364**	**364**	**364**	**364**	**420**	**420**		
1810				3535	5125	5125	5125	5125	3535	3535		
//				4590	5735	5735	5735	5735	4590	4590		
ID	**853**	**853**	**420**								**853**	**853**
1910	2435	2435	3535								2435	2435
//	3520	3520	4590								3520	3520
ID				**771**	**858**	**858**	**858**	**858**	**771**	**771**		
1915				3644	5150	5150	5150	5150	3644	3644		
//				4454	5475	5475	5475	5475	4454	4454		
ID				**298**	**729**	**729**	**729**	**729**	**298**	**298**		
2010				4991	5815	5815	5815	5815	4991	4991		
//				5336	6769	6769	6769	6769	5336	5336		
ID	**375**	**375**	**771**								**375**	**375**
2015	2427	2427	3644								2427	2427
//	3205	3205	4454								3205	3205
ID	**136**	**136**	**298**								**136**	**136**
2110	4615	4615	4991								4615	4615
//	5065	5065	5336								5065	5065

M01 Tuesday/Thursday

	Jan	Feb	Mar	Apr	May	Jun	Jly	Aug	Sept	Oct	Nov	Dec
ID	**197**	**197**	**463**	**463**	**025**	**025**	**025**	**025**	**463**	**463**	**197**	**197**
1800	5320	5320	5474	5474	5280	5280	5280	5280	5474	5474	5320	5320
2000	4490	4490	5017	5017	4905	4905	4905	4905	5017	5017	4490	4490

M12   Log1 Sep 2011

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Thu 1	0340	5829	0400	6929	0420	8029	890	449	127
	1700	9176^	1720	7931	1740	6904	257	3260	80
	1700	10343	1720	9264	1740	8116	124	8375	78
	1800	10343	1820	9264	1840	8116	124	7247	86
	1900	9176	1920	7931	1940	6904	257	1979	59
Fri 2	1600	10343	1620	9264	1640	8116	124	6608	90
Sat 3	None	Found							
Sun 4	1830		1850	13926	1910	12126	991	759	81
Mon 5	0500	6843**	0520	7943**	0540	9143**	891	184	62
	1300	14372^	1320	13472	1340	11472	344	174	171
	1600	12162	1620	11566	1640	10711	546	9280	73
	1700	9176^	1720	7931	1740	6904	257	7281	75
	1800	9176^	1820	7931	1840	6904	257	8778	67
	1900	9176^	1920	7931	1940	6904	257	6080	41
Tue 6	0340	5829	0400	6929	0420	8029	890	646	169
	1830	10343	1850	9264	1910	8116	124	1264	69
Wed 7	1700	8047^	1720	6802	1740	5788	463	9447	53
	1830	11435	1850	10598	1910	9327	938	4229	60
	2100	6793	2120	5893	2140	- - -	785	0 0 0	

Brian - S.E. England

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Thu 8	0340	5829	0400	6929	0420	8029	890	646	169
	1700	NH	1720	7931	1740	6904	257	9604	75
	1700	NH	1720	9264	1740	8116	124	4857	80
	1800	10343	1820	9264	1840	8116	124	704	94
	1900	9176	1920	7931	1940	6904	257	2308	51
Fri 9	1600	10343	1620	9264	1640	8116	124	1563	81
	2200	13412	2220	11512	2240	- - -	454	0 0 0	
Sat 10	None	Found							
Sun 11	1830	15926	1850	13926	1910	12126	991	946	203
Mon 12	0500	6843**	0520	7943**	0540	9143**	891	184	62
	1600	12162	1620	11566	1640	10711	546	3045	85
	1700	9176	1720	7931	1740	6904	257	2660	72
	1800	9176	1820	7931	1840	6904	257	8091	41
	1900	9176	1920	7931	1940	6904	257	4118	98
Tue 13	0340	5829	0400	6929	0420	8029	890	187	273
	1830	10343	1850	9264	1910	8116	124	3667	65
Wed 14	0500	9083^	0520	10183	0540	- - -	910	0 0 0	
	1830	11435	1850	10598	1910	9327	938	???	??
	1830	15926	1850	13926	1910	12126	911	358	177
	2100	6793	2120	5893	2140	- - -	785	0 0 0	
	2110	11469	2130	10469	2150	9169	441	842	89

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

Thanks to Paul (PLdn) & Gary (GN) for finding ID 454 Fri 2200z, to Eddy in S.Australia for finding ID 910 Wed 0500z (Great catch Eddy!), and to Danix for finding ID 911 sched Sun / Wed 1830z.

** ID 891 Msgs transmitted in MCW

M12 Log2 Sep 2011

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Thu 15	0340	5829	0400	6929	0420	8029	890	187	273
	1700	9176	1720	7931	1740	6904	257	6101	68
	1700	10343	1720	9264	1740	8116	124	1092	79
	1800	10343	1820	9264	1840	8116	124	4027	40
	1900	9176	1920	7931	1940	6904	257	5667	68
Fri 16	0500	9083	0520	10183	0540	- - -	910	0 0 0	
	1600	10343	1620	9264	1640	8116	124	6162	98
	2200	13412	2220	11512	2240	10412	454	797	78
Sat 17	2110	11469	2130	10469	2150	9169	441	842	89
Sun 18	1830	15926	1850	13926	1910	12126	991	358	177
Mon 19	0500	6843**	0520	7943**	0540	- - -	891	0 0 0	
	1600	12162	1620	11566	1640	10711	546	2605	99
	1700	9176	1720	7931	1740	6904	257	1409	70
	1800	9176	1820	7931	1840	6904	257	2103	45
	1900	9176	1920	7931	1940	6904	257	5972	61
Tue 20	0340	5829	0400	6929	0420	8029	890	305	195
	1830	10343	1850	9264	1910	8116	124	7312	63
Wed 21	0500	9083	0520	10183	0540	11083	910	965	72
	1500	13524	1520	11524	1540	10334	344	792	133
	1830	11435	1850	10598	1910	9327	938	4840	58
	1830	15926	1850	13926	1910	12126	991	210	125
	2100	6793	2120	5893	2140	- - -	785	0 0 0	
	2110	11469	2130	10469	2150	- - -	441	0 0 0	

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.
Thu 22	0340	5829	0400	6929	0420	8029	890	305	195
	1700	9176	1720	7931	1740	6904	257	7741	50
	1700	10343	1720	9264	1740	8116	124	7553	76
	1800	10343	1820	9264	1840	8116	124	7423	92
Fri 23	0500	9083	0520	10183	0540	11083	910	965	72
	1600	10343	1620	9264	1640	8116	124	2546	71
	2200	NH*	2220	NH*	2240	NH*	454		
Sat 24	2110	11469	2130	10469	2150	- - -	441	0 0 0	
Sun 25	1830	15926	1850	13926	1910	12126	991	210	125
Mon 26	0500	6843**	0520	7943**	0540	- - -	891	0 0 0	
	1300	14372	1320	13472	1340	11472	344	926	221
	1600	12162	1620	11566	1640	10711	546	6448	92
	1700	9176	1720	7931	1740	6904	257	2393	71
	1800	9176	1820	7931	1840	6904	257	641	45
	1900	9176	1920	7931	1940	6904	257	4345	59
Tue 27	0340	5829	0400	6929	0420	8029	890	148	241
	1830	10343	1850	9264	1910	8116	124	4479	70
Wed 28	0500	9083^	0520	10183	0540	- - -	910	0 0 0	
	1500	13524	1520	11524	1540	10334	344	926	221
	1830	11435	1850	10598	1910	9327	938	5498	51
	1830	15926	1850	13926	1910	13926	911	0 0 0	
	2100	6793	2120	5893	2140	- - -	785	0 0 0	
	2110	11469^	2130	10469	2150	9169	441	0 0 0	

Thanks to Richard for finding new freqs for ID 344 on Wed (Mon unchanged!)

*   ID 454 not heard on all freqs on Fri 23 Sep - But it did appear on Fri 30th.

**   **ID 891 Msgs transmitted in MCW**

M12   Log1 Oct 2011

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Sat 1	None	Found							
Sun 2	None	Found							
Mon 3	0500	5384**	0520	6784**	0540	7984**	379	676	95
	1300	10804	1320	9324^	1340	7964	839	712	207
	1600	12162	1620	11566	1640	10711	546	5919	100
	1700	9176	1720	7931	1740	6904	257	6017	75
	1800	9176	1820	7931	1840	6904	257	621	56
	1900	9176	1920	7931	1940	6904	257	1424	78
Tue 4	0340	5872	0400	6772	0420	- - -	876	0 0 0	
	1830	10343	1850	9264	1910	8116	124	5392	53
Wed 5	0500	7832	0520	9232^	0540	10232	822	789	59
	1500	9223^	1520	8193^	1540	7463	839	712	207
	1700	8047	1720	6802	1740	5788	463	9203	84
	1830	12217	1850	10617	1910	9317	263	190	183
	2100	5814	2120	5214	2140	- - -	826	0 0 0	
	2110	9269	2130	9269	2150	- - -	229	0 0 0	
Thu 6	0340	5872	0400	6772	0420	- - -	876	0 0 0	
	1700	9176	1720	7931	1740	6904	257	???	??
	1700	10343	1720	9264	1740	8116	124	3162	70
	1800	10343	1820	9264	1840	8116	124	6720	89
	1900	9176	1920	7931	1940	6904	257	2203	42
Fri 7	1600	10343	1620	9264	1640	8116	124	4566	81
	2200		2220	10273	2240	- - -	922	0 0 0	

Brian - S.E. England

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Sat 8	2110	10269	2130	9269	2150	- - -	229	0 0 0	
Sun 9	1830	12217	1850	10617	1910	9317	263	190	183
Mon 10	0500	5384**	0520	6784**	0540	7984**	379	676	95
	1300	10804	1320	9324^	1340	7964	839	313	225
	1600	12162	1620	11566	1640	10711	546	8061	83
	1700	9176	1720	7931	1740	6904	257	9284	74
	1800	9176^	1820	7931	1840	6904	257	273	62
	1900	9176	1920	7931	1940	6904	257	4992	88
Tue 11	0340	5872	0405*	6772	0431*	7672	876	433	289
Wed 12	0500	7832	0520	9232	0540	10232	822	529	64
	1500	9223	1520	8193	1540	7463	839	313	225
	1700	8047^	1720	6802	1740	5788	463	9234	91
	1830	12217	1850	10617	1910	- - -	263	0 0 0	
	2100	5814	2120	5214	2140	- - -	826	0 0 0	
	2110	10269	2130	9269	2150	7969	229	346	107
Thu 13	0340	5872	0405*	6772	0431*	7672	876	433	289
	1700	9176^	1720	7931	1740	6904	257	1902	67
	1700	10343	1720	9264	1740	8116	124	1736	70
	1800	10343	1820	9264	1840	8116	124	2509	93
	1900	9176	1920	7931	1940	6904	257	273	62
Fri 14	1600	10343	1620	9264	1640	8116	124	2080	76
	2200	10973	2220	10273	2240	9273	922	751	72

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 379 Msgs transmitted in MCW

M12   Log2 Oct 2011

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Sat 15	2110	10269	2130	9269	2150	7969	229	346	107
Sun 16	1830	12217	1850	10617	1910	- - -	263	0 0 0	
Mon 17	0500	5384**	0520	6784**	0540	- - -	379	0 0 0	
	1300	10804	1320	9324^	1340	7964	839	437	189
	1600	12162	1620	11566	1640	10711	546	6230	79
	1700	9176	1720	7931	1740	6904	257	4394	72
	1800	9176^	1820	7931	1840	6904	257	2013	50
	1900	9176	1920	7931	1940	6904	257	5401	46
Tue 18	0340	5872	0400	6772	0420	- - -	876	0 0 0	
Wed 19	0500	7832	0520	9232	0540	- - -	822	0 0 0	
	1500	9223	1520	8193	1540	7463	839	437	189
	1700	8047	1720	6802	1740	5788	463	3134	69
	2100	5814	2120	5214	2140	4614	826	336	127
	2110	10269	2130	9269	2150	- - -	229	0 0 0	
Thu 20	0340	5872	0400	6772	0420	- - -	876	0 0 0	
	1700	9176	1720	7931	1740	6904	257	3879 /	92 /
	M12a	9176	1720	7931	1740	6904	257	2860	92
	1700	10343	1720	9264	1740	8116	124	2610	75
	1800	10343	1820	9264	1840	8116	124	7283	89
	1900	9176	1920	7931	1940	6904	257	8264	65
Fri 21	1600	10343	1620	9264	1640	8116	124	4668	70

Brian - S.E. England

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Sat 22	2110	10269	2130	10269	2150	- - -	229	0 0 0	
Sun 23	Not	Monit	-ored						
Mon 24	0500	5384**	0520	6784**	0540	- - -	379	0 0 0	
	1300	10804	1320	9324	1340	7964	839	174	155
	1600	12162	1620	11566	1640	10711	546	2157	75
	1700	9176	1720	7931	1740	6904	257	7092	79
	1800	9176	1820	7931	1840	6904	257	574	51
	1900	9176	1920	7931	1940	6904	257	8518	71
Tue 25	0340	5872	0408*	6772	0437*	7672	876	480	335
	1830	10343	1850	9264	1910	8116	124	3389	59
Wed 26	0500	7832^	0520	9232	0540	10232	822	142	76
	1500	9223	1520	8193	1540	7463	839	174	155
	1700	8047	1720	6802	1740	5788	463	4978	48
	2100	5814	2120	5214		- - -		826	0 0 0	
	2110	10269	2130	9269	2150	- - -	229	0 0 0	
Thu 27	0340	5872	0408*	6772	0437*	7672	876	480	335
	1700	9176	1720	7931	1740	6904	257	2874	89
	1700	10343	1720	9264	1740	8116	124	5841	72
	1800	10343	1820	9264	1840	8116	124	9606	78
	1900	9176	1920	7931	1940	6904	257	574	51
Fri 28	1600	10343	1620	9264	1640	8116	124	1183	83

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 379 Msgs transmitted in MCW

M12 Log2 Oct 2011 (Residue) Brian - S.E. England

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Cont…									
Sat 15 Oct	Not	Moni	-tored						
Sun 16 Oct	1830	12217	1850	10617	1910	9317	263	697	203
Mon 17 Oct	0500	5384**	0520	6784**	0540	- - -	379	0 0 0	
	1300	10804	1320	9324^	1340	7964	839	620	165
	1600	12162	1620	11566	1640	10711	546	4005	99
	1700	9176^	1720	7931	1740	6904	257	2483	72
	1800	9176	1820	7931	1840	6904	257	6398	69
	1900	9176^	1920	7931	1940	6904	257	4504	88

M12 Log2 Sept 2011 (Residue)

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Cont…									
Thu 29 Sept	0340	5829	0400	6929	0420	8029	890	148	241
	1700	9176	1720	7931	1740	6904	257	2741	46
	1700	10343	1720	9264	1740	8116	124	7531	78
	1800	10343	1820	9264	1840	8116	124	2217	47
	1900	9176	1920	7931	1940	6904	257	621	56
Fri 30 Sept	0500	9083	0520	10183	0540	- - -	910	0 0 0	
	1600	10343	1620	9264	1640	8116	124	5464	70
	2200	13412	2220	11512	2240	10412	454	427?*	54?*

* ID 454 on 30 Sept at 2200/20/40z suffered from multipath reception - Details may contain errors.

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

** ID 379 Msgs transmitted in MCW

Family 1A   History and November predictions - 7th Nov   2011

| Station | | | 2011 | 2011 | 2011 | 2011 | ID | ID | ID | ID | |
Day	time (utc)		August	September	October	November	Aug	Sept	Oct	Nov	week
G06 mon	08.00		6948	6774	6774	5463	215	215	215	215	every
S06 mon	09.30				18654	18654			?		?
G06 mon	17.00		5427	4457	4457	3854	439	439	439	439	1 & 2
G06 mon	18.00		4958	4864	4864	4587	439	439	439	439	1 & 2
S06 mon	19.00/05		7982/6984	5784/5127	5784/5127	3192/3838	349	349	349	349	every
S06 mon	20.15		13545	11460	9245		433	207	621		2 & 4
S06 mon	21.15		11140	9175	7760		433	207	621		2 & 4
M14 tues	16.00				4518				913		1st
S06 tues	18.00				5890				286		1 & 2
M14 tues	18.20		6856	5947	5947	4636	163	346	346	186	2 & 4
G06 wed	12.00			5864	5864	4778	439	439	439	439	1 & 2
G06 wed	13.00			5362	5362	4039	439	439	439	439	1 & 2
S06 wed	18.00/05		6770/5865	5735/5070	5735/5070	3540/3160	471	471	471	471	every
S06 wed	18.20				6783				632		2nd
M14 wed	19.20		5941	5463	5463	4761	417	537	537	748	2 & 4
E06 wed	19.20		5779	4523	4523	4036	829	829	829	829	2
S06 wed	19.30/05						366	366	366	366	Sat R
S06 wed	20.00/05				5413		134	134	134	134	Sat R
E06 wed	20.20		4516	3892	3892		829	829	829	829	2
E06 thur	05.00		13930	12210		xxxxx	210	354	186	xxx	every
E06 thur	06.00		15890	14830	16320	16200	210	354	186	507	every
E06 thur	07.00		xxxxx	xxxxx	xxxxx	18200	xxx	xxx	xxx	507	every
S06 thur	08.30		16327	18mhz ?			842	842			every
S06 thur	09.30		13875	16311?			842	842			every
G06 thur	12.00			4526	4526			215	215	215	?
G06 thur	13.00			4526	4526			215	215	215	
G06 thur	18.30		6887	5934	5934	4519	842	579	579	271	2 & 4
S06 thur	19.00/05		7982/6984	5784/5127	5784/5127	3192/3838	349	349	349	349	every
E06 thur	20.30		5948	5186	5186	4836	724	891	891	321	1 & 3
M14 fri	18.00				8193	6769			269	269	1st
G06 fri	19.30		5943	5442	5442	4792	218	947	947	436	2 & 4
E06 fri	21.30		5731	5197	5197	4760	315	634	634	472	1 & 3
E06 sat	00.30		7981	6874	6797	xxxxx	759	759	759	xxx	every
E06 sat	01.30		6953	5179	5122	5837	759	759	759	759	every
E06 sat	02.30		xxxxx	xxxxx	xxxxx	4583	xxx	xxx	xxx	759	every
S06 sat	16.00/05		8157/6983	8162/7612	8162/7612	7728/6788	134	134	134	134	every
S06 sat	19.00		10178	6791	xxxxx	xxxxx	703	703	703	703	1 & 3
S06 sat	19.00		6943	4787		xxxxx	837	837	837	837	1 & 3
S06 sat	19.30/35		7718/6922	5787/4628	5787/4628	3209/3842	366	366	366	366	every
S06 sat	20.00		5926	3819		3867	837	837	837	837	1 & 3
S06 sat	20.00		9065	5848	xxxxx	xxxxx	703	703	703	703	1 & 3
S06 sat	20.30		xxxxx	xxxxx	6791	4859	xxx	xxx	703	703	! & 3
S06 sat	20.00		xxxxx	xxxxx	xxxxx	3237	xxx	xxx	xxx	837	1 & 3
S06 sat	21.30		xxxxx	xxxxx	5848	4024	xxx	xxx	703	703	1 & 3
E06 sun	11.20		8083	NH	NH		829	829	829	829	Wed R
E06 sun	12.20		7363	NH	NH	5913	829	829	829	829	Wed R

NH = Not heard

SAT R = repeat if there is a message on Saturday

WED R = repeat of 2nd Weds

E07 Regular Schedules

Monday

	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
1900					14812	15824	14812	14378	12108	10243		
1920					13412	14624	13412	13458	10708	9243		
1940					11512	13524	11512	10958	*9208*	7943		
2000	6982										7724	7478
2020	5882										6924	6778
2040	*5182*										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	6892		
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					14812	15824	14812	14378	12108	10243		
1920					13412	14624	13412	13458	10708	9243		
1940					11512	13524	11512	10958	*9208*	7943		
2000	6982										7724	7478
2020	5882										6924	6778
2040	*5182*										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	6892		
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	*93***	9347	*93***	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

Revised4th January 2010

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Sep kHz, ID, ...	Oct kHz, ID, ...	Nov kHz, ID, ...	Dec kHz, ID, ...	General Remarks
x							0450		E11	03	6304 416/00	6304 416/00	5082 416/00	5082 416/00	since 02/10, **last log 09/11**
		x		**x**			**0545**		**E11**	**03**	**15915 348/00**	**15915 348/00**	**348/00, search**	**348/00, search**	**since 06/11, last log 09/11**
	x		x				0645		E11	03	10800 517/00	10800 517/00	7840 517/00	7840 517/00	since 07/09, **last log 10/11**
	x		x				0710		E11	03	10221 633/00	10221 633/00	10800 633/00	10800 633/00	since 02/11, **last log 10/11**
	x		**x**				0820		E11	03	6814 438/00	6814 438/00	7317 438/00	7317 438/00	since 10/09, **last log 10/11**
					x	x	0820		M03	03	761/00, search	761/00, search	4828 761/00	4828 761/00	since 11/10, last log 08/11
x			x				0830		E11	03	10690 649/00	10690 649/00	9446 649/00	9446 649/00	since 01/10, **last log 10/11**
x		x					0900		E11	03	9399 534/00	9399 534/00	9446 534/00	9446 534/00	since 10/09, **last log 10/11**
		x		x			0900		E11	03	4909 248/00	4909 248/00	4441 248/00	4441 248/00	since 02/10, **last log 10/11**
	x		x				0915		S11A	03	7317 484/00	7317 484/00	7504 484/00	7504 484/00	since 01/10, **last log 09/11**
		x	x				0930		E11	03	8800 270/00	8800 270/00	9079 270/00	9079 270/00	since 02/10, **last log 10/11**
x			x				0940		G11	03	7317 275/00	7317 275/00	6480 275/00	6480 275/00	since 01/10, **last log 10/11**
x			x				1015		S11A	03	16112 475/00	16112 475/00	12530 475/00	12530 475/00	since 04/10, **last log 10/11**
	x		x				1020		S11A	03	9960 426/00	9960 426/00	9610 426/00	9610 426/00	since 02/10, **last log 10/11**
	x				x		1020		S11A	03	5815 221/00	5815 221/00	6433 221/00	6433 221/00	since 01/09, **last log 10/11**
	x	x					1045		E11	03	7449 469/00	7449 469/00	8091 469/00	8091 469/00	since 03/10, **last log 10/11**
x						x	**1045/1050**		E11	03	6433 127/00	6433 127/00	4441 127/00	4441 127/00	since 01/10, **last log 10/11**
	x	x	x				1115		M03	03	9150 272/00 (Tue) & 650/00 (Wed/Thu)	9150 272/00 (Tue) & 650/00 (Wed/Thu)	4828 272/00 (Tue) & 650/00 (Wed/Thu)	4828 272/00 (Tue) & 650/00 (Wed/Thu)	since 10/09, **last log 10/11**
	x				x		1135/1140		M03	03	6977 786/00	6977 786/00	5358 786/00	5358 786/00	since 02/10, **last log 10/11**
		x	x			x	1155		E11	03	15915 718/00	15915 718/00	718/00, search	718/00, search	since 04/11, **last log 10/11**
	x					x	1240		E11	03	5737 349/00	5737 349/00	4958 349/00	4958 349/00	since 08/09, **last log 10/11**
		x				x	1320		M03	03	9150 438/00	9150 438/00 **437/00?**	4828 438/00	4828 438/00	since 02/11, **last log 10/11**
				x	x		1325		G11	03	5815 299/00	5815 299/00	6433 299/00	6433 299/00	since 03/10, **last log 10/11**
x						x	1355		S11A	03	**4909 254/00**	**4909 254/00**	4441 254/00	4441 254/00	since 01/11, **last log 09/11**
	x			x			1445		E11	03	4909 267/00	4909 267/00	4441 267/00	4441 267/00	since 01/10, **last log 10/11**
x			x	x			1535		M03	03	**6977 798/00**	**6977 798/00**	5358 798/00	5358 798/00	since 11/10, **last log 09/11**
x						x	1540		E11	03	15915 228/00	15915 228/00	228/00, search	228/00, search	since 03/11, **last log 10/11**
		x					1730		E11	03	9371 416/00	9371 416/00	5082 416/00	5082 416/00	since 03/10, **last log 10/11**
	x					x	1755		G11	03	5815 270/00	5815 270/00	6433 270/00	6433 270/00	since 02/10, **last log 10/11**
			x			x	2000		G11	03	6433 262/00	6433 262/00	4441 262/00	4441 262/00	since 01/11, **last log 10/11**

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Sep kHz, ID, ...	Oct kHz, ID, ...	Nov kHz, ID, ...	Dec kHz, ID, ...	General Remarks
x							0800		G06	01A	6774 215	6774 215	5363 215	5363 215	since 07/10, **last log 10/11**
		x					**1200**		**G06**	**01A**	**5864 439**	**5864 439**	**4778 439**	**4778 439**	**since 01/11, last log 10/11**
x							1700		G06	01A	4457 439	4457 439	3514 892	3514 892	since 04/10, **last log 10/11** yearly changing id
x							1800		G06	01A	4864 439	4864 439	4458 892	4458 892	since 05/09, **last log 10/11** yearly changing id
			x				1830	2/4	G06	01A	5935 579	5935 579	4519 271	4519 271	since 05/01, **last log 10/11**
				x			1930	2/4	G06	01A	5442 947	5442 947	4792 436	4792 436	since 04/01, **last log 10/11** rpt of Thu 1830Z

S06s schedule - amended 7th Nov 2011

Day	time (utc)	jan feb nov dec	mar apr sep oct	may jun jul aug	ID	
mon	09.00?				872	
mon	09.10				872	
mon	13.00	8420	9145	10230	831	1 hour earlier
mon	13.10	10635	11460	12165	831	April to Oct
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	10265	11635	14373	352	
tue	08.10	9135	10420	12935	352	
tue	10.00	6440	6410		893	
tue	10.10	5660	7340		893	
tue	12.30	5810	4 mhz?	7650	278	
tue	12.40	6770	5805	6125	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	08.20?	6880	7605	6755	471	
wed	08.30	7840	9255	5835	471	
wed	08.30	7335	7335	7335	745	1 hour earlier
wed	08.40	11830	11830	11830	745	May to Oct
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	8340/8720	934	
fri	06.10	7070	5470	5810/10415	934	
fri	07.00	7150	7795	7845	196	1 hour earlier
fri	07.10	8215	8695	9125	196	April to Sept
fri	09.30	11780	12140	10290	516	
fri	09.40	12570	13515	9655	516	
sat	12.00	8680	10350	12460	254	Only
sat	12.10	8260	8520		254	week 1

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

SUN	0000	0100	0200	0300	0400	0500	0600	0700
							9124(SK)0600	*5883(P)*
							9063(SK)0630	
						5898(P)	5800(S)	

MON	0000	0100	0200	0300	0400	0500	0600	0700
				6855(P)	*6768(S)*	*13380(SK)*	*11435(SK)*	*5883(P)*
				5800()	*5117()*	*12180(SK)(?)*	*11532(SK)(?)*	
					4174(?)			
				6376()		5898(P)	5800(S)	

TUE	0000	0100	0200	0300	0400	0500	0600	0700
					6768()	*12120(SK)*		*5883(P)*
					5117()	*13380(SK)*		
				6380()		5898(P)	5800(S)	

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

THUR	0000	0100	0200	0300	0400	0500	0600	0700
						13380(SK)	*9124(SK)0600*	*5883(P)*
						12120(SK)	*9063(SK)0630*	
				8009(P)	8009(S)			
			9620()	10445(P)	11565(S)	5898(P)	5800(S)	

FRI	0000	0100	0200	0300	0400	0500	0600	0700
		6768(P)	*5417(S)*			*12120(SK)*	*11435(SK)*	*5883(P)*
		4028()				*13380(SK)*	*11532(SK)*	
						5898(P)	5800(S)	9153(P)

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

New possible skeds found:

Monday 0300z / 6376-6380m M08a
Monday 0400z / 4174m V02a
Friday   0100z / 4028m V02a

Thanks

Current Cuban Skeds Heard From 0800-1500 UTC
This covers 0300-1000 local EDT in the USA
(September-October 2011)

	0800	0900	1000	1100	1200	1300	1400	1500
SUN	5898(S)							
		10432(P)	9112(S)	4478()				

	0800	0900	1000	1100	1200	1300	1400	1500
MON	5898(S)							
	8186(SK)	9063(SK)						
						8096(P)(?)	8096(S)(?)	
			7680(?)			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)						
						8096(P)(?)	8096(S)(?)	
						10714(P)	10857(S)	
	9063(S)	9153(?)						

	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()				

	0800	0900	1000	1100	1200	1300	1400	1500
SAT	5898(S)	9040(P)	9240(S)					
	8186(SK)	9063(SK)						
	5883(SK)	5947(SK)0900(?)						
		5930(SK)0930(?)						
				4478()				

New skeds found:

Monday 1000z / 7680m M08a

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)*			
				6785(P)	7554(S)		7526(P)	8135(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)*			
				6785(P)	7554(S)		8009(P)	8135(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
				6785(P)	7554(S)			
			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.
Skeds with (?) have not been heard in over two months.

SK01 notes:

At present SK01 seems to be using exclusively RDFT mode.

--Updated October 31, 2011—

XPA Polytones

Sept 2011

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

1. 0440z: 6928kHz   2. 0500z: 8128kHz   3. 0520z: 9328kHz

ID913   Mode: USB   [Tue/Thu]

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

01Thu	913 1 00210 00817 50352 22142	[11m51s]
06Tue	913 1 00678 00773 71482 55223	[10m25s]
08Thu	931 1 00312 00689 32613 75512	[9m13s]
13Tue	913 1 00495 00963 21955 93866	[12m23s]
15Thu	913 000 03759 00001 00000 10140	[2m26s]
20Tue	913 000 03759 00001 00000 10140	[2m26s]
22Thu	913 000 05343 00001 00000 10140	[2m26s]
27Tue	913 1 00546 00361 51813 57501	[6m08s]
29Thu	913 1 00546 00361 51813 57501	[6m08s]

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

1. 1400z: 10267kHz 2. 1420z: 9167kHz 3. 1440z: 7967kHz

ID219   Mode: USB   [Sun/Tue]

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

04Sun	219 000 09459 00001 00000 10140	[2m26s]
06Tue	219 000 08265 00001 00000 10140	[2m26s]
11Sun	219 000 09459 00001 00000 10140	[2m26s]
13Tue	219 000 08265 00001 00000 10140	[2m26s]
18Sun	219 000 09947 00001 00000 10140	[2m26s]
20Tue	219 000 08266 00001 00000 10140	[2m26s]
25Sun	MISSED	
27Tue	219 1 00186 00087 59472 32230	

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

1. 1900z 11576kHz 2. 1920z: 10476kHz   3. 1940z: 9276kHz

ID542   Mode: USB   [Tue/Thu]

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

01Thu	542 1 00764 00063 80562 71134	[3m05s]
06Tue	542 1 00942 00175 94350 75744	[4m20s]
08Thu	542 1 00942 00175 94350 75744	[4m20s]
13Tue	542 1 00593 00159 90774 40225	[4m04s]
15Thu	542 1 00593 00159 90774 40225	[4m04s]
20Tue	542 1 00583 00113 03647 34730	[3m34s]
22Thu	542 1 00583 00113 03647 34730	[3m34s]
27Tue	542 1 00793 00209 13329 41067	[4m34s]
29Thu	542 1 00793 00209 13329 41067	[4m34s]

XPA b Schedule

Very strong throughout schedule

XPA d Afternoon schedule

Reasonable strength, some fades otherwise no problems

XPA e 1900z Evening schedule

Variable, fair to strong; occasional unusable sendings.

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

1. 0440z 5762kHz 2. 0500z: 6962kHz 3. 0520z: 7962kHz

| ID799 | Mode: USB | [Tue/Thu] |

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

04Tue	MISSED	
06Thu	799 2 00921 00519 91185 63761 00000 00000	
	00845 00267 52262 05004	[10m37s]
11Tue	799 1 00723 00795 04452 51115	[10m37s]
13Thu	799 2 00620 00145 86076 41441 00000 00000	
	00723 00795 04452 51115	[12m43s]
18Tue	799 1 00217 00777 93067 64746	[10m26s]*
20Thu	799 000 05343 00001 00000 10140	[2m26s]
25Tue	799 1 00465 00583 64860 52151	[8m48s]
27Thu	799 1 00731 00367 70858 37632	

XPA b Schedule

Strong across the schedule.

*Note 18/10 as heard during the arrest of two German spies Heidrun and Andreas Anschlang...Reported as listening to NS with peculiar musical marker – pc linked to radio at time of arrest.
0440 was 0640 in Berlin; still dark and XPAb only NS with a message being sent at that time.

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

1. 1400z: 8167kHz 2. 1420z: 7467kHz 3. 1440z: 6867kHz

| ID917 | Mode: USB | [Sun/Tue] |

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

02Sun	Split freq tx	
04Tue	917 000 09574 00001 00000 10140	[2m26s]
09Sun	Split freq tx	
11Tue	917 000 09574 00001 00000 10140	[2m26s]
16Sun	Split freq tx	
18Tue	917 1 00758 00119 87239 24566	[3m34s]
23Sun	Split freq tx	
25Tue	917 000 09974 00001 00000 10140	[2m26s]
30Sun	Split freq tx	

XPA d Afternoon schedule

Split freqs used. [not looked for].

Rest of sendings fair.

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

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

| ID491 | Mode: USB | [Tue/Thu] |

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

04Tue	304 1 00994 00085 29558 66357		[3m18s]
06Thu	304 1 00994 00085 29558 66357		[3m18s]
11Tue	304 1 00295 00217 62415 03531		[4m40s]
13Thu	304 1 00295 00217 62415 03531		[4m40s]
18Tue	304 1 00815 00191	66562	[4m21s]
20Thu	304 1 00815 00191 **94980** 63562		[4m21s]
25Tue	304 000 01717 00001 00000 10140		[2m26s]
27Thu	304 000 01717 00001 00000 10140		[2m26s]

XPA e 1900z Evening schedule

Fair sendings but gross weak sending on 1900z freq 27/10

SPECIAL MATTERS:

Operation Jallaa: 2

MESSAGES:

E [sorry for D]   Thanks for letter etc. Hope all ok with you. All's well here. Rest in next NL.

RELEVANT WEBSITES

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

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

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

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

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

EyeSpyMag!   http://www.eyespymag.com