

ENIGMA 2000 NEWSLETTER



Russian built R142 and R142a set up in a field and
manned by NVA.

HF / VHF Tactical Comms. Working Air <> Ground, and NVIS etc. circa 1985

Issue 39
March 2007

<http://groups.yahoo.com/group/enigma2000>

Welcome all to Issue 39

We'll cut short the usual intro this time, there's just so much to get through, it's quite a remarkable issue following on from the excitement of the last one.

Enjoy.

Paul & Mike L

Errata :- Brian of Crawley, second M12 Chart in Issue 38, page 8, should be headed "Dec 06"

Note that we have added a full calendar for 2007 for days to be determined for those with a need to do so. Also included is a BC freq chart for selected areas. The frequencies are those of national stations that have been heard in Europe and whose inclusion may be of use to monitors for propagation and direction and suchlike. Both additions are in the chart area of this NL.

Here We Go Again !

G11 has returned !! after an absence of nearly 10 years, we wonder for how long this time ?

Here's the rundown

On 31st Jan Jochen, E2Kde, made comment of a posting to another list which appeared to be somewhat unusual (the poster "Poacher in Russia" subsequently became a member of E2k)

This posting immediately raised the interest of Manolis Petrakis & Mike L as the original poster was known for a history of accuracy in his loggings, and not prone to making mistakes.

Both Manolis & Mike L immediately and independently added the quoted freq into their "watch lists" and were more than surprised when the required TX turned up the following day, 1st Feb.

It was within 3kHz of the quoted freq and giving a powerful signal into Greece & UK, also later confirmed as an S9++ into Germany by Alpha Vax. Not only a G11 - but one with a message, a special "121" message - a rarity in itself.

A "members update" was posted out to group the same day to give as many monitors as possible an opportunity to try and catch any subsequent TX's, and the full text also posted to aid identification together with the availability of a recording on Manolis blogsite.

Unfortunately up to 28 Feb no further TX's were logged.

Freqs used were 5782 & 5779

It would be more than strange if this was just a "2 day wonder" or even a "test" when judged against the significance of "121" TXs within the III Family of stations.

If as suspected (by RRGB & others) that this is a conversion / addition / extension of an M03 "sked" then it's going to be a very "pot luck" capture, with it's history of unscheduled transmissions.

We possibly have the advantage that if it stays somewhere near the original logged freq it will be in an area that's heavily monitored - and it is a very large signal.

The question has already been asked "did it really go away then", we can only answer that if the hobby in general with all its participants has missed something this powerful for 10 years there's something very wrong !

E27 update

Following the major article in Issue 38, and the wide interest it raised, a number of members have informed us they have/ will be carefully reviewing their "archive" logs to check whether any of their previously flagged "unids" were in fact E27 type transmissions.

(This would in no way invalidate the "discovery" by MC-O, Ed)

PoSW advised us by letter that he possibly heard it on 29 Aug 06 and 14 Sept 06, both on 9061kHz 20.45z, he has not heard anything on that freq since, despite regular monitoring.

PoSW bases his opinion on the very distinctive Ending Sequence.

After not being logged since 22 Dec 06 it was heard again on 10 Jan by BM - our E10 Desk Manager, as a co-incident TX with the 20.45z EZI sked on 6840kHz.

Both stations can be independantly understood in the recording sent to us, E27 is the stronger of the two.

On 15 Jan both Mike L & Alpha Vax caught a further TX on this same sked, however it is interesting that AV reported an S8 signal from Germany while Mike L had a huge S9+20 (peaked +23) in UK.

The E27 carrier, which came up at 20.40z, completely swamped the end of the EZI TX for Mike.

HF Number Stations, going out of fashion? - we don't think so, not quite yet !

The ending of the Cold War, the break-up of the Soviet Block and the, politically so called, Peace Dividend had led us into a period of rapidly reducing participants across the spectrum of Numbers activity, then followed a further slower decline driven in most part by 'the economics' argument,

A quite false assumption, but in 'political spin' terms a very plausible one.

There are many of us on this group who from the outset considered that the overall state of international tension had steadily, and now very visibly, worsened since the Cold War period, at least then the protagonists were fairly clearly defined which is a far cry from the current picture.

All of a sudden it would appear that there are others who share our view.

We can only think that the appearance of E27, the re-appearance of G11 the increase in activity of E03 and E10, or at least a perceived increase, and other unexpected Voice / CW / Digi station activity could well be an indication of a widespread enhancing of preparedness - recruitment of more "agents" who need to be communicated with ? - so when is E05 going to come back then ?

The quick roundup

New designator series.

During January we introduced the **SK** series of IDs to cater for the recently introduced “digital mode” transmissions by the Cubans - after consultation with our Cuban Desk Team none of the existing designators were deemed appropriate. We will develop the structure of this designator series in light of ongoing experiences.

[There is always the possibility that other networks could follow, Ed]

SK01 is assigned, effective from 20 Jan 07, covering the BPSK31 TX's allied to M08a, it will be initially regarded as a “generic” code covering any other additional Cuban Digi modes.

E06 / S06c, RN thinks they made a little slip-up, then E06 sends a strange message, see entry

E10, HNC Z up again on 29 Jan, then our old friend ABC comes back after having a rest.

E11b, new sked found, see entry.

E25, Another sked found – and we're learning very much more about it.

See the **major definitive article** our “man on the spot”, Manolis Petrakis, has provided for this issue. *This splendid piece is appended to the end of this newsletter and will be found in the File Section of the ENIGMA 2000 Group*

G11, it's back with us after almost 10 years – please **reactivate** in your Control Lists

S10d, S17c & M10 will change freqs on 1 March, see new chart.

M08a/V02a Cuban group, lots of things going on here that need to be understood and analysed - in addition to the “digi mode” activities - V02a has gained a new voice, and an LSB TX on 14 Jan, while M08a has a new fast morse format. Additional / unlogged freqs also coming into use.

The active members of the Cuban Team, living in different time zones, have substantially increased the coverage of the Cuban group and it's nice to see more European logs being submitted as conditions slowly improve.

All this will keep Mark and the Cuban Desk Team very busy.

XPA – M12, a direct tie-up between these stations is proven, see XPA entry.

Morse Stations

Here is a representative sample of the very many CW 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 associated articles/charts/comments in this issue.

M01/1 XIV MCW, hand (197 sked from 1st Nov)

5320	18.00z	04 Jan	197 540 30
4490	20.00z	04 Jan	197 100 30
5810	15.00z	06 Jan	197 224 30
6793	12.06z	06 Jan	i/p ending '901 901 50 50 000'
5320	18.00z	01 Feb	197 000

M01a (formerly end of month TXs)

5018	08.00z	11 Jan	473 69640 rptd, 111 999 731 15 = etc ending 731 15 111 000
9243	08.25	11 Jan	i/p ... 212 20 = 5Fg = 212 20 333 333 111 709 89 111 000
9218	09.40z	17 Jan	'342 46651' rptd, 342 342 342 000
9243	08.12z	01 Feb	i/p ends = 334 10 111 000

M01b

4615//5067	21.10z	01 Jan	136 891 39
4141	18.20z	05 Jan	210 771 25
4848	18.20z	09 Jan	210 771 25
“	“	12 Jan	repeat above
5810	16.15z	12 Jan	158
4603//4991	21.32z	18 Jan	514 569 30
5151	16.20z	06 Feb	812 278 27

M01c

No reports

M03 III ICW, some CW

12660	08.45z	04 Jan	503 / 00
10385	10.00z	04 Jan	976 / 00
4909	08.00z	05 Jan	041 / 00
9060	08.15z	05 Jan	552 / 00
4505	07.00z	08 Jan	040 / 00
10210	09.00z	08 Jan	976 / 00
8088	07.30z	17 Jan	508 / 00
7793	09.15z	23 Jan	221 / 00
4840	19.30z	23 Jan	121 / 20 = = 65432 46789
4840	07.30z	06 Feb	041 / 00
4909	07.30z	23 Feb	040 / 00

M03c (Stutter groups)

9060	08.15z	08 Jan	554 / 37 == 77777 77777 01035
12153	08.45z	08 Jan	252 / 31 == 77777 77777 64400
10210	09.00z	22 Jan	970 / 00 == 77777 77777 59430
10384	10.00z	25 Jan	Rpt above
7798	09.15z	30 Jan	222 / 32 == 77777 77777 02497
11486	07.45z	06 Feb	501 / 30 == 77777 77777
12660	08.45z	08 Feb	501 / 30 == 77777 77777 35898

M03e

No reports

M08a XVIII ICW / CW, some MCW

All the usual fun & games continue to entertain our Cuban Team but there are some very strange things happening co-incident with the introduction of their "Digi service", including – but not restricted to – the loss of some long running skeds – or their freq relocation !, as has happened with V02a.

7526	21.00z	02 Jan	i/p weak, New Sked ??
10127	03.00z	06 Jan	i/p, strong clean, nice catch by Zack W.
5930	07.00z	07 Jan	Jon caught this very strange TX. It was expected to be a MCW but came up as CW, then changed to BPSK31 at 07.20z, then back into CW at 07.31z but not using the usual Cut Numbers, and a format similar to the SK01 shown later.
5800	10.00z	07 Jan	MCW using a new fast morse sending Under investigation.
9040	09.00z	11 Jan	Fast format
8136	11.00z	13 Jan	Fast format
8430 / 8630	08/09.00z	22 Jan	MCW, fast format
6786	09.00z	22 Jan	Fast format
7726	10.00z	22 Jan	Fast format
5930	06.00z	27 Jan	Should have been on 5800
8186	08.00z	19 Feb	MCW, fast format
16178	16.00z	24 Feb	MCW, TX as following entry but changed to V02a at 16.03z with continuous 3's.
7974	21.00z	24 Feb	CW sending a continuous 12345 67890 (ANDUW RIGMT) in new format till 21.21z

Freqs

4028, 4035, 5759, 5800, 5847, 5883, 5898, 5930, 5947, 6768, 6786, 6826, 8097, 8186, 8430, 8630, 9040, 9063, 9153, 16178

Above freqs also use / are MCW

3025, 3292, 3926, 4027, 4034, 4478, 4506, 5116, 5134, 5416, 5761, 5798, 5882, 6786, 6854, 6867, 6932, 6943, 7481, 7519, 7526, 7554, 7580, 7680, 7726, 7786, 7887, 7975, 8010, 8135, 9063, 9152, 9237, 9240, 9323, 10125, 10127, 10235, 10344, 10446, 11565, 13379.

An interesting series of events event caught by Jon-FL :-

Congruance of the use of the same ID number for M08a MCW, M08a CW and V02a AM!

2007-02-13 TUE 0500z	9063 CW M08a	25513 74353 22313
2007-02-13 TUE 0600z	5800 MCW M08a	25513 64471 22491
2007-02-13 TUE 0700z	8186 AM V02a	25513 04151 70002
2007-02-13 TUE 0700z	6786 MCW M08a	25513 24441 33253
2007-02-13 TUE 0800z	7580 AM V02a	25513 04151 70002

A similar situation, caught by MS, occurred on 21 Feb using the first ID of 61212

0700	8136 AM V02a	61212 16421 99321
0700	9153 MCW M08a	61212 55293 74513
0800	7555 AM V02a	61212 16421 99321
0800	9063 CW M08a	61212 55293 74513
0900	9040 AM V02a	61212 78951 27111
1000	9240 AM V02a	61212 78951 27111

While Tim, westt1us, commences another investigation channel and sends his preliminary report :-

I had reported before that the MCW primary M08a schedules in the 0500-0700z time frame were starting late.

I have completed analysis of one of the schedules based on my notes for the entire month of January and into the early part of February.

The primary schedules were coming up 5 minutes late consistently.

On several occasions they were found in progress, or started normally at the top of the hour, before abruptly stopping and starting on the 5 minute late timing.

I've attached analysis of the 0500/0600z schedule on 5928 and 5800 respectively to prove the point.

I am normally in bed by the time the 0700 schedules started so there are a lot of missing secondary schedules for the 0600/0700z primary/secondary transmissions.

For that reason I omitted them from the analysis, but the primary schedules at 0600z were consistently starting 5 minutes late also.

I hope my study is of interest.

2007-01-01, UTC:0505-, Freq:5928, M8a, MCW Started at 0505 (Primary Schedule)

2007-01-01, UTC:0600-, Freq:5800, M8a, MCW Started at ~0600 (Secondary Schedule)

2007-01-02 All schedules no show.

2007-01-04, UTC:0505-, Freq:5928, M8a, MCW Came up in callups at 0502 and went into message at 0503 (implies 0500 start) Stopped at 0505:35 and into 3 minutes of callups then message.(Primary Schedule)

2007-01-04, UTC:0601-, Freq:5800, M8a, MCW Started at 0601 (Secondary Schedule)
(Actually 0600:35)

2007-01-06, UTC:0506-, Freq:5928, M8a, MCW Started at 0506(Primary Schedule)
2007-01-06, UTC:0601-, Freq:5800, M8a, MCW Started at 0601 (Secondary Schedule)
Note: All schedules 1 minute late

2007-01-08, UTC:0505-, Freq:5928, M8a, MCW Started at 0505 (Primary Schedule)
2007-01-08, UTC:0600-, Freq:5800, M8a, MCW Started at 0600 (Secondary Schedule)

2007-01-09, UTC:0500-, Freq:5928, M8a, MCW Came up in message at 0514 into second
message at 0519 Indicates start time of 0505 (Primary Schedule)
2007-01-09, UTC:0600-, Freq:5928, M8a, MCW Switched to correct frequency 5800 at 0606 approx.

2007-01-16, UTC:0506-, Freq:5928, M8a, MCW Actual start 0506:30 (Primary Schedule)
2007-01-16, UTC:0601-, Freq:5800, M8a, MCW Actual start 0601:30 (Secondary Schedule)

2007-01-18, UTC:0601-, Freq:5800, M8a, MCW Actual start 0601:30 (Secondary Schedule)

2007-01-16, UTC:0505-, Freq:5928, M8a, MCW Actual start 0504:45 (Primary Schedule)
2007-01-16, UTC:0600-, Freq:5800, M8a, MCW Actual start 0459:45 (Secondary Schedule)
Both started 15 seconds early

2007-01-18, UTC:0601:30, Freq:5800, M8a, MCW Actual start 0459:45 (Secondary Schedule)

2007-01-20, UTC:0505-, Freq:5928, M8a, MCW Actual start 0504:47 (Primary Schedule)
2007-01-20, UTC:0600-, Freq:5800, M8a, MCW Actual start 0659:45 (Secondary Schedule)
Both started 15 seconds early

2007-01-23, UTC:0505-, Freq:5928, M8a, MCW Actual start 0504:45 (Primary Schedule) Transmission in progress at 0503 abruptly stopped and
into 3 minutes of callups at 0505:00
2007-01-23, UTC:0600-, Freq:5800, M8a, MCW Actual start 0600:10 (Secondary Schedule)

2007-01-25, UTC:0505-, Freq:5928, M8a, MCW Actual start 0505:30 (Primary Schedule) 2007-01-25, UTC:0600-, Freq:5800, M8a, MCW
Actual start 0600:30 (Secondary Schedule)
Both started 30 seconds late

2007-01-27, UTC:0505-, Freq:5928, M8a, MCW Actual start 0505:30 (Primary Schedule) Came up in progress at 0504:30 stopped and into 3
minutes of callups at 0505:00 2007-01-27, UTC:0600-, Freq:5800, M8a, MCW Actual start 0600:00 (Secondary Schedule)
Came up in progress at 0559 stopped and went into 3 minutes of callups at 0600:00

2007-01-29, UTC:0505-, Freq:5928, M8a, MCW (Primary Schedule)
2007-01-29, UTC:0600-, Freq:5800, M8a, MCW (Secondary Schedule)

M08c

No reports

M08d

No reports

M10 IX ICW / MCW, some CW

14978	14.10z	01 Jan	888 166 nn 831 19	poor sig
6764	16.30z	01 Jan	111 571 25 275 29 049 39 435 24	
Another good news day !!, very interesting that the TX on 1 Nov 06 had the same addressees., as have subsequent TX's this month.				
Also on 1 Jan it sent 888 / 111 / 444 / 333 header sequences.				
5472	18.00z	04 Jan	444 186 36	
5946	19.40z	04 Jan	111 448 24 194 19	
9385	19.50z	"	222 520 27	
6764	16.30z	06 Jan	333 571 23 275 37 049 41 435 26	
		07 Jan	repeat above	
4485	16.10z	07 Jan	111 254 29 912 22	
5860	19.20z	07 Jan	111 628 32 980 27	
5301	18.20z	08 Jan	999 611 39 675 27	
9455	15.00z	09 Jan	u/r	
9165	16.40z	09 Jan	OTHR QRM, poss 777	
7605	17.20z	09 Jan	111 577 21 28 = 40433	see also XPA
5946	08.00z	11 Jan	333 579 32 757 24	
3809	05.35z	14 Jan	888 571 78 38, 275 04 39, 049 76 22, 435 32 30.	
5946	13.40z	15 Jan	666 887 27 981 36	
7745	17.20z	16 Jan	i/p weak	
5945	13.40z	19 Jan	888 067 33 23	
6758	16.10z	22 Jan	999 182 24 486 33	
6945	11.40z	23 Jan	444 356 27 328 40	
9973	13.40z	06 Feb	888 381 31 688 20	
4007	21.15z	19 Feb	i/p ending 95 85 34 000	

Freqs
4007, 4031, 4836, 5301, 5607, 5861, 6764

M11 IXA (formerly M10e)

No reports

M12 IB ICW, some MCW / CW, short 0

Note, identified freq changes in Jan as shown highlighted in Brians charts.

M12 Log 1, Jan 2007 [Brian - Crawley]

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Wed 3	1940		2000	5442	2020	4461	944	299	209
Sun 7	1940	6996	2000	5442	2020	---	944	0 0 0	
Wed 10	1940	6996	2000	5442	2020	---	944	0 0 0	
Sun 14	1940	6996	2000	5442	2020	4461	944	834	203
Wed 17	1940	6996	2000	5442	2020	4461	944	834	203
Wed 24	1400	9126	1420	8108	1940	6872	998	570	205
	1940	6996	2000	5442	2020	4461	944	995	203
Sun 28	1940	6996	2000	5442	2020	4461	944	675	125
Mon 29	1900	10343	1920	9264	1940	8116	124	8372	115
Wed 31	1400	9126	1420	8108	1440	6872	998	706	133
	1800	10343	1820	NH	1840	8116	124	V. Weak	

Highlighted cell indicates new or changed loggings

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

We have an interesting confirmation of the M12 – XPA tie-up, see XPA entry.

5903/5203 20.00/20z	06 Jan	925 x3 000
12128	08.00z	07 Jan 615 x3 000
5938	22.00	09 Jan 138 x3 000
10628	07.40z	14 Jan 615 x3 000
9126/8108/6872	13.00/31/58z	15 Jan 998 1 1014 311
9264/8116 19.20/40z	15 Jan	124 1 6708 121
9327	14.05z	22 Jan i/p
8024	11.40z	23 Jan 297 1 518 71
6992	12.00z	“ rpt above
9126/8108/6872	14.00/20/40	24 Jan 998 1 570 205
6996/5442/4461	19.40/20.00/20z	“ 944 1 905 223
5903/5203/4503	20.00/20/40	“ 925 1 560 129
6824	22.00z	25 Jan ??? 000 000
13384	15.28z	29 Jan i/p
12121	15.56z	“ i/p
12193	15.56z	01 Feb i/p ends 16.16z
		Investigation by Brian & Richard shows this triplet is
		12193 / 13593 / 14893
6978/5978/4978	20.00/20/40z	03 Feb 989 x3 000
14893/12193	15.00/40z	09 Feb 851 1 285 151 03966
14452/13384	15.27/15.44z	10 Feb both i/p
15862/14522/13384	15.00/20/40z	12 Feb 853 1 793 277 94464
8117/6917/5142	19.40/20.00/20z	14Feb 191 1 482 193
6978/5878/4978	20.00/20/40z	14 Feb 989 1 351 135
5891/5268/4572	21.00/20/40z	17/20 Feb 825 1 774 11 previous XPA freqs
11435/10598/9327	19.00/20/40z	13/20 Feb 938 BR reports poor sig with this sked,as was the 124 sked in Jan, prompting the ??, 2 nd Txer

/ diff location / diff beam heading.

M12 Log Feb 2007 [Brian - Crawley]

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	<i>ID</i>	Decode Key	Grp No.
Fri 2	1500	14893	1525?	N/H	1550?	12193	851	842	309
Thu 8	1500	14893	1520	N/H "Jet"	1540	12193	851	285	151
	1800	11435	1820	10598	1840	9327	938	4261	100
	1900	13386	1920	12189	1940	11491	816	2216	102
Sun 11	1900	10343	1920	9264	1940	8116*	124	4782	123
	1940	8117*	2000	6917	2020	5142	191	482	193
Mon 12	1500		1520	14522	1540	13384	853	793	277
	1900	10343	1920	9264	1940	8116	124	7105	120
Tue 13	1900	11435	1920	10598	1940	9327	938	V Weak	***
Wed 14	1940	8117	2000	6917	2020	5142	191	482	193
	2000	6978	2020	5878	2040	4978	989		
Thu 15	1500	14893	1520	N/H "Jet" **	1540	- - -	851	0 0 0	
Fri 16	1500	14893	1520	N/H "Jet" **	1540	- - -	851	0 0 0	
Sat 17	1500	15862	1520	14522	1540	13384	853	793	277
Tue 20	1900	11435	1920	10598	1940	9327	938	2 . .	210?
Wed 21	1940	8117	2000	6917	2020	5142	191	439	171
	2000	6978	2020	5878	2040	4978	989	541	271
Thu 22	1500	14893	1520	N/H "Jet"	1540	- - -	851	0 0 0	
Fri 23	1500	14893	1520	N/H "Jet"	1540	- - -	851	0 0 0	
Sat 24	1500	15862	1520	14522	1540	13384	853	793	277
Sun 25	1900	10343	1920	9264	1940	8116*	124	1395	109
	1940	8117*	2000	6917	2020	5142	191	768	145
(Cont.)									

Brian's Feb 2007 M12 Chart continued:

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Mon 26	1500	15862	1520	14522	1540	13384	853	793	277
	1900	10343	1920	9264	1940	8116	124	7693	126
Tue 27	1900	11435	1920	10598	1940	9327	938	4423	110
Wed 28	1940	8117	2000	6917	2020	5142	191	768	145
	2000	6978	2020	5878	2040	---	989	000	

Highlighted cell indicates new or changed loggings

--- Indicates no 3rd transmission sent as message 000

N/H - Not heard

* Both 8116 kHz & 8117 kHz in use at the same time. 8116 kHz transmission was noticeably weaker.

** Signal not heard due to severe "Jet" QRM – Searched band for any change of frequency without success.

*** All three transmissions were very weak and logging of decode key and Grp count was not possible. Curious given the usually good strength of M12 signals. A similarly weak set was heard last month.

PoSW commented :-

M12:- I haven't bothered too much with M12 Morse for a while since Brian of Crawley is doing such a fine job. However, I thought I would see what I could find and logged the transmissions listed below. I get the distinct impression there has been a considerable reduction in activity from M12 over the last year. There was a time when you could tune around on any evening of the week on the hour, twenty minutes past or forty minutes past and find an M12 calling up. Certainly, the "almost daily" schedule with call "749" starting at 5 PM UK and which had run for many years time vanished in 2006 as did the early evening "462" which used to be on several days in the week, often with the same 5F groups which had been transmitted on the "749" an hour or two earlier. Also, several M12 schedules heard in Jan and Feb last year have not appeared in 2007. One notable exception is the Saturday & Wednesday schedule starting at 8 PM UK time, i.e. 2000 UTC in the winter months which has been appearing on the same frequencies as in the same months as 2006 and indeed, in previous years, always a strong signal - as if being beamed in my direction! - and almost always starts within a second or two of the correct time.

M12a (two message variant)

No reports

M13 IB

M13 family now considered inactive since 0430z 13 Mar 06

M14 IA MCW / ICW / MCWCC, short 0

4040	21.00z	05 Jan	309 x3 00000, (call now changed from 578 in 06) 2 nd sending of this 1 st & 3 rd Fri TX
3680	20.02z	19 Jan	i/p 309 0000 1 st sending freq identified, per PoSW This sked changed freqs to 4470/3860 for 2 nd & 16 th Feb
12210	08.15z	11 Jan	i/p ending.. 51101 = = 456 456 107 107 00000
4762	19.26z	12 Jan	i/p ending... 15795 = = 735 735 26 26 00000
12210	08.00z	25 Jan	742 742 742 00000
12175	08.11z	08 Feb	i/p ending ... = = 358 358 169 169 00000
4637	18.20z	13 Feb	186 429 28
4762MCW	19.20z	14 Feb	748 429 28

M14a (two message variant) RNGB

9120	07.30z	13 Jan	i/p ending 81624 = = 141 141 45 45 00000
7920	08.24z	"	repeat above mssgs 356 42 and 141 45. Start times estimated as 07.20 & 08.20z

M18 IC

3803	19.22z	09 Jan	2322 R
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M23 O

J-PL (CAN) continuing supply of virtually daily logs again provides the yardstick for other monitors and confirms that some TX timings are erratic, as are the expected // freqs.

There are other aspects of this one still being studied with new skeds coming to light, J-PL made the comment :-

“In light of the resurrection of a number of old E2K formats that had gone dormant, perhaps we should also take M23 into account, as it has just recently also made a comeback, and is evolving.
For example, the 1700 sked on 12700 with //13440 using 222 has not been heard since the end of Oct 06. Has it moved to a new freq or gone? I first caught 222 at the end of July 06. So, it was only on those 2 freqs for 4 months. Perhaps M23 changes freqs every 4 months (quarterly). As well, the 1430 sked on 14450 using 555 has not been heard since the end of Dec 06.”

[It will be interesting to see if any changes occur in March, Ed]

FNs logs from Switzerland and RNGB from UK complete the overview.

11430//10780	15.03z	01 Jan	i/p 555 R (// not 12200)
14710	07.45/08.30z	04 Jan	555 R10
5670//8810	16.30z	04 Jan	951 R10
11430//10780	15.02z	14 Jan	555 R10
12200	17.36z	16 Feb	i/p 555
10551	09.00z	20 Feb	448 R10, big sig, per RNGB

Improving reception conditions in Canada gave J-PL the opportunity of catching 3 “first heard” TXs in one day at beginning of Feb, much to his delight :-

8810 16.33z,	14710 17.05z	12200 17.35z
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M24 IA MCW / ICW / MCWCC (high speed version of M14), short 0

12210 / 14870	08/09.00	18 Jan	‘742’ 681 25 - 15689
12170	08.00z	01 Feb	742 00000
7920	20.00z	07 Feb	‘798’ 423 50
12175/14450	08.00/09.00z	08 Feb	‘742’ 358 169
10780	08.00z	13 Feb	‘039’ 712 50 – 97397
12200	08.30z	“	‘039’ R
7920	20.00z	14 Feb	‘798’ 964 123
8150	19.30z	20 Feb	‘512’ 489 113
9120/7920 19.30/20.00z	21 Feb		‘798’ 506 123
10190	20.00z	27 Feb	‘512’ R

M39 ICX? ICW / MCW

FN catches this rare erratic visitor, which appears to have changed format slightly since last logged, we need to establish if this a permanent change.

6955	09.06z	09 Jan	i/p ICW , slow, hand, short. 5Ff x3, 5Ff x3, alternating different gps. Followed by series of zeros. Ended 0 0 0 - which is new, this station normally has no sign-off.
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M44

No reports

M45 XIV MCW, slow, hand

4025	18.02z	23 Jan	‘525’ 732 33=28619. Rpt of 18 Jan
“	“	8/13 Feb	‘525’ 479 34

M50 XIV MCW

No reports

M55 O

No reports

M62 O

4396	07.10z	08 Jan	Rare ‘with message’ catch by FN c/s DRIK, adrsee GKHS with 4 messages at 07.17 / 07.28 / 07.45 / 08.00
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SK01

J-FL intercepted this stations first heard “non-test” transmission, using BPSK31 mode, while he was expecting a M08a standard sked MCW TX. The structure is very interesting, especially the way in which the end of one message and the start of the next is signified, there are also many similarities with its M08a “parent” - we append Jons whole post for those of you who missed it on group site, it makes a very interesting study. Subsequently some PSK220F mode TX’s were heard and we await any further developments

Sunday JAN 07 2007 0600z, 6786 Khz AM
expected a m8a in MCW mode but
this happened instead:

Sorry, missed the beginning of the tx.....
But you can see the pattern.

86043 22252 73082 57167 84370 87754 61884 00771 44486 16407
36583 34861 82130 33277 06236 26402 44864 52731 01556 06414
03318 23254 88217 38101 26360 53635 66443 57122 00331 38057

56732 05111 70613 52354 08535 67380 67578 23836 64731 63336
82745 02237 83875 86244 55566 76248 24765 44434 88523 47743
38301 04874 33015 14660 17023 54050 75828 66880 11110 63854
46211 01128 86381 61307 57251 18082 35115 12125 25561 40724
23441 22373 82888 84715 86311 42277 80846 63500 78347 00232
32578 64112 57315 05805 27615 14644 48835 37533 16671 35056
85134 47543 51788 76516 45144 03107 54325 83762 44181 07617
67360 03857 86202 65716 03213 10888 08631 58184 52mo1 51575
64736 60022 18607 62231 60124 81184 51302 64013 70334 78528
62346 41628 31267 67763 58047 67071 38647 70853 67567 67600
31008 75603 25764 05548 81014 68577 77543 71268
+++
50243 50243 50243 50243 50243
553 48612 00640 24267 24845 51614 30063 43610 02482 60566
72540 52116 86043 22252 e3082 57167 84370 87754 61884 00771
44486 16407 36583 34861 82130 33277 06236 26402 44864 52731
01556 06414 03318 23254 88217 38101 26360 53635 66443 57122
00331 38057 56732 05111 70613 52354 08535 67380 67578 23836
64731 63336 82745 02237 83875 86244 55566 76248 24765 44434
88523 47743 38304 874 33015 14660 17023 54050 75828 66880
11110 63854 46211 01128 86381 61307 57251 18082 35115 12125
25561 40724 23441 22373 82888 84715 86311 42277 80846 63500
78347 00232 32578 64112 57315 05805 27615 14644 48835 37533
16671 35056 85134 47543 51788 76516 45144 03107 54325 83762
44181 07617 67360 03857 86202 65716 03213 10888 08631 58184
52211 51575 64736 60022 18607 62231 60124 81184 51302 64013
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38057 56732 05111 70613 52354 08535 67380 67578 23836 64731
63336 82745 02237 83875 86244 55566 76248 24765 44434 88523
47743 38301 04874 33015 14660 17023 54050 75828 66880 11110
63854 46211 01128 86381 61307 57251 18082 35115 12125 25561
40724 23441 22373 82888 84715 86311 42277 80846 63500 78347
00232 32578 64112 57315 05805 27615 14644 48835 3 16671 35056
85134 47543 51788 76516 45144 03107 54325 83762 44181 07617
67360 03857 86202 65716 03213 10888 08631 584 52211 51575
64736 60022 18607 62231 60124 81184 51302 64013 70334 78528
62346 41628 31267 67763 58047 67071 38647 70853 67567 67600
31008 75603 25764 05548 81014 68577 77543 71268
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11111 07/01/2007 11111 07/01/2007 11111 07/01/2007 11111 07/01/2007

22222 07/01/2007 22222 07/01/2007 22222 07/01/2007 22222 07/01/2007 22222
83613 83613 83613 83613 83613
74750 23485 02855 51783 85733 00537 22283 13110 41418 02042
26361 01842 65522 63213 04118 6765 38514 00863 38288 54787
80012 80833 74578 65487 87054 05727 2632 36583 02134 88587
47515 15301 24478 50162 10512 47048 38176 68243 83120 42400
56757 81418 05871 02813 16477 50152 01502 50556 40530 8348
15123 88601 31072 65251 06404 44120 51871 72248 80152 40387
70682 23334 30723 72443 33750 08345 48643 16076 01445 51085
06774 82467 16120 17514 23114 31615 84407 12352 52080 13510
45078 24024 15252 57255 78216 61637 38237 35584 32564 55277
74212 60517 25204 64882 27283 50203 41215 36410 12211 60253
07335 58425 38070 18838 04722 61886 31132 21662 35412 16824
83708 10518 14870 77602 40235 84384 35535 81734 56014 06668
04316 40764 31114 37020 58566 70051 31310 03125 35538 80863
82062 64761 28550 36762 37640 81384 65557 70350 50743 63553
04743 83683 75357 27335 76354 78467 13362 84670 45862 60874
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47515 15301 24478 50162 10512 47048 38176 68243 83120 42400
56757 81418 05871 02813 16477 50152 01502 50556 40 u 83458
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70682 23334 30723 72443 33750 08345 48643 16076 01445 51085
06774 82467 16120 17514 23114 31615 84407 12352 52080 13510
45078 24024 15252 57255 78216 61637 38237 35584 32564 55277
74212 60r÷ t 25204 64882 27283 50203 41215 36410 12211 60253
07335 58425 38070 18838 04722 61886 31132 21662 35412 16824
83708 10518 14870 77602 40235 84384 35535 81734 56014 06668
04316 40764 31114 37020 58566 70051 31310 03125 35 80863
82062 64761 28550 36762 37640 81384 65557 70350 50743 63553

04743 83683 75357 27335 76354 78467 13362 84670 45862 60874
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80012 80833 74578 65487 8705[05727 52632 36583 02134 88587
47515 15301 24478 50162 10512 47048 38176 68243 83120 42400
56757 81418 05871 02813 16477 50152 01502 50556 40530 83458
15123 88601 31072 65251 06404 44120 51871 72248 80152 40387
70682 23334 30723 72443 33750 08345 48643 16076 01445 51085
06774 82467 16120 17514 23114 31615 84407 12352 52080 13510
45078 24024 15252 57255 78216 61637 38237 35584 32564 55277
74212 60517 25204 64882 27283 50203 41215 36410 12211 60253
07335 58405 38070 18838 04722 61886 31132 21662 35412 16824
83708 10518 14870 77602 40235 84384 35535 81734 56014 06668
04316 40764 31114 37020 58566 70051 31310 03125 35538 80863
82062 64761 28550 36762 37640 81384 65557 70350 50743 63553
04743 83683 75357 27335 76354 78467 13362 84670 45862 60874
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22222 07/01/2007 22222 07/01/2007 22222 07/01/2007 22222 07/01/2007

33333 07/01/2007 33333 07/01/2007 33333 07/01/2007 33333 07/01/2007 33333
23725 23725 23725 23725 23725
98795 07033 36577 30570 19233 92690 62961 28753 31964 85298
69049 19918 46628 57896 95311 77365 62084 10487 03713 67405
84496 38663 39923 34109 56383 34449 60372 62625 35966 78589
62134 91651 36320 89669 06731 00783 29368 38967 05379 02054
12825 01574 03494 28818 31313 32540 06828 79730 16208 72752
88668 52550 43017 25293 55817 77418 49543 64205 07519 43057
29841 66286 31135 21117 08850 00102 30888 94145 13539 00752
58345 29096 54331 98554 35615 69185 91671 05984 65773 64838
68725 71271 66742 42243 19044 61826 90920 58190 50572 37944
95069 73258 30416 41359 43454 07471 47577 81521 78679 13538
67353 29037 18878 03007 68533 46779 55414 47743 25417 08031
44675 84001 91097 05196 37876 69435 54017 22773 31962 32991
68118 28915 10425 09724 30152 63759 62779 20227 36340 29772
23220 52169 30924 62917 64490 24183 17956 74558 82993 43459
32085 87766 57379 53062 22374 63847 37706 37655 98795 07033
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34449 60372 62625 35966 78589 62134 91651 36320 89669 06731
00783 29368 38967 05379 02054 12825 01574 03494 28818 31313
32540 06828 79730 16208 72752 88668 52550 43017 25293 55817
77418 49543 64205 07519 43057 29841 66286 31135 21117 08850
00102 3M888 94145 13539 00752 58345 29096 54331 98554 35615
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61826 90920 58190 50572 37944 95069 73258 30416 41359 43454
07471 47577 81521 78679 13538 67353 29037 18878 03007 68533
46779 55414 47743 25417 08031 44675 84001 91097 05196 37876
69435 54017 22773 31962 32991 68118 28915 10425 09724 30152
63759 62779 20227 36340 29772 23220 52169 30924 62917 64490
24183 17956 74558 82993 43459 32085 87766 57379 53062 22374
63847 37706 37655 98795 07033
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23725 23725 23725 23725 23725
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69049 19918 46628 57896 95311 77365 62084 10487 03713 67405
84496 38663 39923 34109 56383 34449 60372 62625 35966 78589
62134 91651 36320 89669 06731 00783 29368 38967 05379 02054
12825 01574 03494 28818 31313 32540 06828 79730 16208 72752
88668 52550 43017 25293 55817 77418 49543 64205 07519 43057
29841 66286 31135 21117 08850 00102 30888 94145 13539 00752
58345 29096 54331 98554 35615 69185 91671 05984 65773 64838
68725 71271 66742 42243 19044 61826 90920 58190 50572 37944
95069 73258 30416 41359 43454 074 i1 47577 81521 78679 13538
67353 290I7 18878 03007 68533 46779 55414 47743 25417 08031
44675 84001 91097 05196 37876 69435 54017 22773 31962 32991
68118 28915 10425 09724 30152 63759 62779 20227 36340 29772
23220 52169 30924 62

carrier off at 0652z.

Thanks to: BR, FN, Gert, HFD, J-FL, J-PL, JoA, ML, MS, PoL, RNGB, TH, West1, ZW, Anon 2 UK

Report from E2K's German Branch

Report from E2K's German Branch

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

In the German schools, a mathematical learning book is used frequently, titled "Die Welt der Zahl", translated "The world of the number". If we advance this title to "The world of numbers stations" ("Die Welt der Zahlensender"), it could be a nice title for whole newsletter 39, cause "The numbers scene lives – and lives – and lives" or to say it with the words of Mikendbs in a group mail: "The numbers world is going berserk" this period. The legendary re-appearance of G11 (discovered by Kopf via the member of another list) is already mentioned, also the E17 saga, the E25 activities and the discoveries of the E10 project team, led by AlphaE2Kde, Erfurt/Eastern Germany, are parts of issue 39. But there are also other interesting news of the German scene – and of course X06 logs as usual at the end.

First a little note to NL 38: The article about "Radioactive marking" (page 50 f.), which was introduced as "de anon", came from our German correspondent DanielE2Kde, Münster/Northwestern Germany.

"Elektor" article is online

The article in the electronic magazine "Elektor" about numbers stations, which was written by the Kopf (look at NL 38), is now online at the 'Files' section of our E2K homepage.

Interview in "Computerclub 2"

In its transmission from January 29th, the German online audio magazine "Computerclub 2" (CCzwei) brought the interview with the Kopf, which was also announced in NL 38. This magazine is produced once a week on every Monday. The numbers contribution was said to come already on January 15th, cause they interviewed me on that day. That led to misleadings, cause I thought, it would be sent on the day of the interview itself, but later I heard from the CCzwei makers, that they produce the programmes 2 weeks before transmission. You can find the transmission from January 29th at www.cczwei.de/archiv.php - "Sendung vom 29.01.2007 - CC-Zwei-28.mp3". The contribution is nearly at the end and lasts 12-13 minutes (with 2 soundclips in it). In the week, when this transmission was the actual one, you could also find a link to our E2K group, and this gave a very good resonance within the CCzwei listeners' scene, so that we got many new German E2K members.

X06 Mazielka (1C) logs section

Date	Day	UTC	Freq	Md	Scale	Monitor	Comments
20070109	Tue	0815-0823	14861	AM	542136	KopfE2Kde	Rarer scale with strong S9
20070111	Thu	0815-0845	10165	USB	123456	Kopf,FritzE2Kch	6-note rising – fair and long
20070111	Thu	0836	9065	AM	561243	RNGB	
20070112	Fri	0817-0848	9300	AM	464646	Kopf, Tim	Strange 3x2 variant
20070112	Fri	0849-0850	9300	AM		TimJN58PC	Different scale
20070112	Fri	0852-0902	9300	AM	464646	Tim, Kopf	Different scale at the end
20070118	Thu	0831	14446	AM	162543	Fritz	
20070119	Fri	1526	9235		156234	Fritz	
20070122	Mon	0908-0913	10172	AM	421635	RNGB, Kopf	Strong S9
20070125	Thu	0943	13506	USB	164532	Gert/NL	Very short
20070125	Thu	1527	6948				
20070129	Mon	2005	8081	AM	532614	RNGB	Very short
20070130	Tue	1141-1202	9301	AM	123456	FrankeE2Kde	
20070205	Mon	0800	10127	USB	421635	Manolis/GR	Low signal
20070205	Mon	1600-1602	8180		241563	Mikendbs, S&D	Good levels – same freq as E17
20070206	Tue	2002-2011	8005		165423	POSW	Very strong S9+
20070207	Wed	050-2100	6915	AM	215346	RNGB, Kopf	Weak and with a short break
20070207	Wed	2053-2100	6850	AM	241563	Kopf, RNGB	
20070207	Wed	2053-2100	6870	AM	463125	Kopf, RNGB	Standard freq
20070207	Wed	2053-2100	6962	AM	164532	Kopf, RNGB	Standard freq – very strong
20070208	Thu	0809	10730		123456	PoSW	Very long (ended before 0840)
20070208	Thu	0833-0837	16116	AM	134265	Kopf	Rare scale
20070208	Thu	1100	16025	AM	156234	Kopf	Strong and long (missed the end)
20070212	Mon	2000-2022	8105	AM	214365	RNGB, Kopf	Standard freq – weak and long
20070220	Tue	0925-0930	15687	AM	154263	Kopf	Strong signal
20070220	Tue	1220-1234	14871	AM	156234	Kopf	S3-4
20070221	Wed	0800-0805	15819	AM	256341	Kopf	Strong S9
20070221	Wed	0836-0839	12152	AM	432516	Kopf	Rarer scale
20070221	Wed	2013	9303	AM	256134	Fritz	
20070222	Thu	0905-0909	9300	AM	123456	Kopf	6-note rising
20070226	Mon	0913-0918	11424	AM	421635	Kopf, RNGB	Marburg: weak, London: strong
20070227	Tue	0854-0903	12420	AM	534216	Kopf	Changed 1mHz higher at 0903
20070227	Tue	0903-0920	13420	AM	534216	Kopf	Same scale (sometimes RTTY QRM)

That was again much nice stuff, I think. Next time there will be more.

Till then "Auf Wiedersehen" and "Good-bye"

Jochen Schäfer, KopfE2Kde

We complete the German Branch report with DanielE2kde logs. Please accept our apologies for not placing them in the right places as Daniel intended we would. Both MikeL and Plondon are in full time jobs and finding time to carry out long tasks that are newsletter aligned is somewhat difficult. Having to convert to our file standard and then sort just takes too long.

Please send as text or doc and in the format we favour here [and certainly not in excel based tables, unsorted except by nature of date]:

Freq/Time/Date/Msg detail and day

Don't forget the date, putting the date once, as a header, and expecting us to do the rest of the graft is a sure way of being ignored.

Date (MM/DD/YYYY): 12/01/2006 - 12/29/2006
by: ms_monitor2004 = DanielE2Kde
Location: Münster (Muenster), northwest Germany, 51°57'47"N 7°37'43"E
Equipment: Yaesu FRG-7000, outdoor random wire ant.

Freq	ENIGMA	MMDDYYYY	UTC	Mode	Comments
8009.0	M08a	01082007	2312	CW	vy weak, often diminishing in noise. Copied some 5fg with Cuban short numbers (ADGIMNRUW) (which should justify the identification in addition with the known frequency.)
5170.0	E10	01142007	1650	AM	"VLB2". Signal S7 thru 9+20 with QRM.
5340.0	E10	01142007	2320	AM	"KPA2"; better in USB due to local carrier humming Callup "887 887 887 1"; then "482 23 482 23" and into numbers; first groups: 80758 96980 33393 13738 20210; ending 2125z "000 000". Recording and complete transcript available. Strong signal S9+30; some splatter from BC station.
5896.0	E07	01152007	2120	AM	Callup "887 887 887 1"; then "482 23 482 23" and into numbers (repeat of 2120z 5896kHz); S9+20. Recording and transcript available.
4792.0	E07	01152007	2140	AM	caught just the last tones only 14 seconds transmission following start tones (null msg?). Recording available.
5424.0	XPA	01162007	2102	AM	Callup "887 887 887 1"; then "482 23 482 23" and into numbers (repeat of 15 Jan 2120z 5896kHz / 2140z 4792kHz)
4968.0	XPA	01162007	2115	AM	Callup "744 744 744 1", then 877 45 877 45" and into numbers; first groups: 90219 94588 78698 57424 73224. Only partially readable due to QSB and local crackling noise.
6892.0	E07	01172007	2100	AM	i/p. (local) QRM
5449.0	E07	01182007	2130	AM	"VLB2" Signal S9+10...+30 Callup "744 744 744 1", then 877 45 877 45" and into numbers; repeat of 2130z 5449kHz, better reception on this QRG. Recording and complete transcript available.
5090.0	E10	01182007	2138	AM	Very short (null?) msg 14 seconds after start tones. Recording available. Strong and clear S9+40
5170.0	E10	01182007	2149	AM	Very short (null?) msg 14 seconds after start tones. Repeat of 2120z 4968kHz? QRM by digital signals.
4484.0	E07	01182007	2151	AM	Very short (null?) msg 14 seconds after start tones. Repeat of 2120z 4968kHz / 2100z 5424kHz ? Strong S9+40
5424.0	XPA	01192007	2100	AM	i/p. Weak and hardly readable, QRM/noise
4968.0	XPA	01192007	2120	AM	"287 oblique 0 0" repeated until 1635z, then "out" (null msg). Strong 9+10..+40. Recording available.
4473.0	XPA	01192007	2140	AM	5FG, short zeros. Suddenly picking up speed in transmission. Weak signal increasingly drowned in (local) noise, end of transmission could not be determined. Suspected M10 due to frequency.
4461.0	E10	01192007	2151	AM	just audible mixing with different BC stations
4181.0	E11	01212007	1630	USB	"690 690 690 00000" (null msg), ending 1937z. Weak modulation, strong local noise. Recording available.
4030.0	M10?	01212007	1642	CW	"JSR2" noise, local QRM i/p, fast presentation. Strong interferences, mostly not readable, slightly better in USB
4880.0	E10	01212007	1833	AM	i/p 5FG with short zeros, ending at 1817z "0 0 0 0". Recording and transcript of end available.
4570.0	E06	01212007	1930	AM	i/p, at 1847 gongs and IS. Good signal up to S9+10
5090.0	E10	01222007	2102	AM	i/p; some QSB, interference, statics intermittent carrier and short beep before start of message at 1820z. Calling "788 788 788 1", then "70? 25 70? 25"; ending at 1826z "000 000". Strong interference by carrier and broadcast splatter, mostly unreadable.
4460.0	E10	01222007	2110	AM	repeat of 5836 kHz 1820z "788 788 788 1", the "702 35 702 35". QSB and local noise, mostly unreadable.
4025.0	M45	01232007	1812	CW	
5746.0	E03	01232007	1847	USB	
5090.0	E10	01232007	2038	AM	
5836.0	E07	01242007	1818	AM	
4893.0	E07	01242007	1840	AM	

6892.0	E07	01242007	2058	AM	strong carrier with short 1200 Hz beep before start of message at 2100. "887 887 887 0 0 0" (null msg) until 2102. Very good, clear signal S 9+30. Recording available.
5896.0	E07	01242007	2110	AM	carrier on at 2110z; at 2120z "887 887 887 0 0 0" repeat of null msg on 6892 kHz 2100z. Very strong signal S9 - 9+40 "tri dwa tri (323)", at 1746 into message 5FG. Ending at 1853z "33 33 0 0 0". Signal S7 with QSB, but strong interferences, mostly unreadable. Recording (excerpt) available.
3823.0	S21	01252007	1843	AM	"436 436 ...", "713 713 31 31 04664 31104 97132 98527 02890 ...". Carrier on before msg. SSB station, local growling and rasping noise, QSB and static; some groups nearly diminishing in noise. Recording and transcript available. S9..9+30 with noise.
4792.0	G06	01262007	1930	AM	Carrier on before message. Very short (14 seconds) message. Strong S9+20 .. S9+40. Recording available.
5424.0	XPA	01262007	2100	AM	Repeat of 5424 2100z
4968.0	XPA	01262007	2120	AM	Repeat of 5424 2100z, 4968 2120
4473.0	XPA	01262007	2140	AM	"788 788 788 1", "733 66 733 66 00537 03516 12154 80398 97995 ..." 1800-1807z carrier interference, 1809z till end of message at 1809z digital noise. S7..9+20, but weak modulation again. Recording and transcript available.
6774.0	E07	01282007	1800	AM	Carrier on before message, some tuning beeps. Repeat of 6774 1800z "788 788 788 1". BC station (Kiev in German) in background, interferences.
5836.0	E07	01282007	1820	AM	Repeat of 6774 1800z, 5836 1820z. Weak, noise.
4893.0	E07	01282007	1840	AM	"PCD2"
3150.0	E10	01282007	2303	AM	i/p
4560.0	E10	01282007	2312	AM	strong local crackle and noise on frequency; also in SSB only few numbers readable. Sounds like "887 887 887 1". unfortunate frequency, too; often strong broadcast splatter; QSB. Better in SSB. "887 887 887 1", "617 29" Repeat of 6892 2100z.
6892.0	E07	01292007	2100	AM	"887 887 887 1", "617 29 617 29 81978 82451 90385 40172 60196 ..." The best QRG tonight. Repeat of 6892 2100z, 5896, 2120z. Recording and transcript available.
5896.0	E07	01292007	2120	AM	Very weak and a lot of local noise (TV interferences) "525 525...", can just read beginning "732 732 33 33 = ". Then into 5FG, too weak to read. //3525kHz
4792.0	E07	01292007	2140	AM	// of 4025 and better here except when hampered by a ham on exactly the same QRG, signal peak S9+20. Ending "26109 26109 58282 58282 = = 732 732 33 33 0 0 0". Recording available.
4025.0	M45	01302007	1802	CW	i/p (missed startup). QSB but mostly good signal and good readable. S7 to (mostly) 9+40. Final "000 000" at 1809z. Recording of last 4.5 minutes available.
3525.0	M45	01302007	1813	CW	"323 323...", at 1846 "332 332 332 33 " and into 5FG, ending "0 0 0" at 1853. QSB, noise, too bad to read except a few groups.
6774.0	E07	01312007	1804	AM	very short (nul?) msg 14 seconds. Very strong ans stable signal S 9+40. Recording available
3323.0	S21	01302007	1840	AM	repeat of 5452 2100z. S9+20..40
5424.0	XPA	01302007	2100	AM	repeat of 5424 2100z, 4968 2120z. S9+40.
4968.0	XPA	01302007	2120	AM	i/p interference by carrier
4473.0	XPA	01302007	2140	AM	i/p
4460.0	E10	01302007	2143	AM	"VLB2"
4880.0	E10	01302007	2147	AM	"788 788 788 1", then "733 66 733 88". (repeat of 6774 1800z.) First groups as far as readable: "00537 03516 121(57) (8035)8 97995 97374 06259..." BC interference/splatter, sometimes SITOR; better in USB; reception becoming weak, at end not readable.
5170.0	E10	01302007	2150	AM	Repeat of 8774 1800z, 5836 1820z. Strong carrier S9+30 but weak modulation, hardly readable in noise.
5836.0	E07	01312007	1820	AM	
4893.0	E07	01312007	1840	AM	

Thanks Jochen and all his correspondents, also DanielE2kde for sending his logs.

VOICE STATIONS

PoSW kindly opens our Voice Stations column with very valid comment that he expands on elsewhere in this newsletter:

Number station activity continues in 2007 with most of the established schedules still active although I have lost track of the Saturday 1600z S06 schedule which I had been tracking throughout most of 2007.

The G06 German YL is still with us, the first Monday in the month 1900 + 2000z schedule using the same frequencies as in 2006, as are the twice a month 1830z Thursday and 1930z Friday schedules. The Saturday G06 has turned up again, heard several times in Jan and Feb at 2200z on 4,441 KHz.

The related E06 English language schedules have made it into 2007, both the long established male voice and the female version of which I only know one schedule, Thursdays at 0800z; I last had the chance to hear this one when I was "snowed in" on 8-Feb-07 on 11,170 KHz, still on the the same frequency as in the last two months of 2006.

E03/E03a [X]

Apart from the regulations concerning the reception of wireless stations within Great Britain advice on reporting intelligence matters also exists in the form of DA notices.

Whoever the messages, from E03/E03a, are aimed at ENIGMA 2000 has no wish to 'advertise' the existence of these stations to those who may not support the best interests of Great Britain, or its representatives abroad. Although we are unable to stop discussion of E03/E03a, ENIGMA 2000 will remain aloof from any such discussion and will not be including reports or analysis on E03/E03a in our newsletters.

E06 [IA]

The following was inserted into NL38 as aFLASH message: RNGB writes, "Confirmed a new E06 sked tonight. I think it possibly replaces the Weds 2100/2200 sked which was not heard last month. (When this new one first appeared). It is 1st and 3rd Mondays at 2000/2100z and this month frequencies 5265/4542kHz with ID 512 nul message.

January E06 log and analysis from RNGB: A fairly quiet month with no extra or special traffic reported.

Not heard any reports from E06 Thursday mornings at 0500/0600 I think the frequencies will be very high and not audible in Western Europe. Maybe we will start to hear them next month as the daylight hours increase.

Mon 1st Jan	2000	5265	'512' 00000	
	2100	4542	'512' 00000	
Weds 3rd	1405	8020	'457' 00000	
	1505	6830	'457' 00000	
Thurs 4th	2030	4836	'321' 145 28 52858 69571 24869 etc	also AF
Fri 5th	2130	4760	'472' 145 28 as above	
Tues 9th	2000	6780	'826' 00000	
	2100	5420	'826' 00000	
Weds 10th	1500	7680	'192' 750 213 23432 82205 37428 etc	
	1600	5190	'192' repeat	
Sun 14th	1830	5805	'690' 00000	
Thurs 18th	2030	4836	'321' 145 28 52858 69571 etc	
Weds 24th	1500	7680	'192' 750 213 23432 82205 37428 etc	
	1600	5190	'192' repeat	
Thurs 25th	2100	5785	'812' 00000	
	2200	4487	'812' 00000 (moved from 4480 due QRM)	

5815kHz 1830z	07/01[690 690 690 00000]IW	SUN
4570kHz 1930z	14/01[690 690 690 00000] An early start this week at 1929z and no distortion on the signal either. IW	SUN
6780kHz 2000z	23/01 [826 00000] FN	TUE

4570kHz 1930z	07/01[690:00000] AF	Sun
1930z	14/01[690:00000] very weak AF	Sun
1930z	28/01[690:00000] AF	Sun
4760kHz 2130z	19/01[472 145 28 52858...] like yesterday AF	Fri
4836kHz 2030z	18/01[312 145 28 52858...] AF	Thur
4893kHz 1930z	21/01[690:00000]AF	Sun
5815kHz 1830z	07/01[690:00000]AF	Sun

For February: RNGB writes: A fairly quiet month for E06 with just the usual scheduled traffic noted. The only exception was ID 203 on Weds 21st on 4035 kHz.

I had noticed a very strong carrier on that frequency just before 2000 and parked a receiver on it in the hope that something might come up. I was rewarded with E06 starting at 2015 with '203' 00000 until 2019. I expect this was a repeat of a transmission at 1915 in 5MHz band.

Nothing has been heard of the December /January sked on Mondays at 2000/2100, so it is possible that the one found on Weds at 2015 may be a replacement.

Nothing heard from ID 705. Maybe it only appears when it has message traffic?

February log:-

Fri 2nd Feb	2131	4760	'472' 916 25 42841 82904 02928 etc (all groups read slowly)
Sun 4th	1830	5380	'690' 00000
	1930	4465	'690' 00000

Weds 7th	1405	9070	'457' 00000
	1505	7890	'457' 00000
Tues 13th	2000	6840	'190' 00000
	2100	5360	'190' 00000
Weds 14th	1500	9220	'604' 285 163 97377 09409 41794 etc
	1600	7710	'604' repeat
Fri 16th	2130	4760	'472' 916 25 42841 82904 02928 etc (all groups read slowly)
Sun 18th	1830	5380	'690' 00000
	1930	4465	'690' 00000
Weds 21st	2015	4035	'203' 00000
Thurs 22nd	2100	5780	'647' 00000
	2200	4630	'647' 00000
Tues 27th	2000	6840	'190' 00000
	2100	5360	'190' 00000
Weds 28th	1600	7710	'604' 178 253 groups

Now onto PoSW's logs and analysis of the E06 English Lady transmissions. Note Peter's mention of the E06 YL.....

Weekly Sunday 1830 + 1930 UTC Schedule, call always "690":-

7-Jan-07:- 1830 UTC, 5,815 KHz, "690 690 690 00000", S9 signal with slight QRM sideband splash from broadcast station in 49 metre band. Similar frequency used in January last year, although I only managed to find it on the last Sunday in Jan. '06 when it was on 5,823.

1930 UTC, 4,570 KHz, second sending, strong signal but speech distorted and breaking up of the audio; a similar effect was observed on last Sunday's second sending, 31-Dec-06, on 4,515 KHz.

14-Jan-07:- 1830 UTC, 5,805 KHz, "690 690 690 00000", weak signal with BC sideband splash QRM.

1930 UTC, 4,570 KHz, second sending peaking S9+; no sign of the breaking up of audio noted last Sunday.

21-Jan-07:- 1830 UTC, 5,820 KHz, "690 690 690 00000", difficult copy, not found until over a minute into the transmission, has moved onto the same frequency as a strong broadcast station, sounded like Polish language.

1930 UTC, 4,570 KHz, second sending, very weak signal only just readable; compare and contrast with last Sunday when it was S9+.

28-Jan-07:- 1830 UTC, 5,820 KHz, only just audible under S9++ broadcaster, "690 690 690 00000".

1930 UTC, 4,570 KHz, second sending, strong signal but some crackling noises and breaking up of audio during the first minute of transmission.

4-Feb-07:- 1830 UTC, 5,380 KHz, "690 690 690 00000", signal strength S9.

1930 UTC, 4,465 KHz, second sending, still some transmitter problems here, broke up and vanished a couple of times during the four minutes. Continuing the established pattern, same frequencies as in February 2006.

11-Feb-07:- 1830 UTC, 5,380 KHz, "690 690 690 00000". Not much trade for poor old "690" in recent weeks! S9 signal with unusually deep, crisp modulation.

1930 UTC, 4,465 KHz, second sending, S9+ with the same deep mod. noted on the first sending. No sign of any transmitter problems this week!

First + Third Thursdays in the Month, 2030 UTC Schedule:-

I got somewhat out of touch with this one during the depths of winter, I logged it on 7-Dec-06 on 4,836 KHz but managed to miss possible sendings later in December and in January. However, contact re-established on the first Thursday in February although it was a somewhat unusual, not to say bizarre, kind of transmission:-

1-Feb-07:- 2036 - and 35 - seconds UTC, 4,836 KHz; a carrier had been observed on 4,836 at around 2020z which seemed likely to be the 2030z Thursday E06. 2030z came and went with no sign of a voice but well after 2036z the E06 OM started up calling "321" but at a faster pace and higher pitched voice than usual, like a tape recording running too fast. The voice stopped just before 2038z, then a minute of plain carrier when the voice started up again with "0-1-2-3-4-5-6-7-8-9-0", two "4"s in the middle and a "0" at each end, repeated many times. This routine went on until after 2043z when there was plain carrier until 2044z when the voice came back with "00000", carrier stayed on for another minute or so - and that was it! So what was that all about then, eh Ivan?

15-Feb-07:- 4,836 KHz, a straightforward E06 with none of the nonsense observed on 1-Feb. Started on the half hour calling "321", DK/GC "916 916 25 25", same message as heard on Friday 2-Feb, see below. Normal pitched voice and speed of delivery, ended after 2039z with DKDK GCGC and 5 x slow "zero".

First and Third Fridays in the Month, 2130 UTC Schedule:-

22-Dec-06:- 4,760 KHz:- started 15 seconds before the half hour, calling "472", DK/GC "651 651 26 26", same as when last heard on 8-December.

19-Jan-07:- 4,760 KHz, same frequency as in December, call "472", DK/GC "145 145 28 28", shortish message as always seems to be the norm with this one, ended before 2140z with DKDK GCGC and 5 x slow "zero".

2-Feb-07:- 4,760 KHz, carrier was warming up the frequency at 2107z, I wondered if this was going to be the same strange transmission as yesterday's 2030z effort, see above. But no worries! Although the call-up continued on well past 2134z it was a normal E06, call "472", DK/GC "916 916 25 25".

16-Feb-07:- 4,760 KHz, started approx. 10 seconds before the half-hour, carrier was up 2109z. Call "472", DK/GC "916 916 25 25", same as on 2-Feb.

A Tuesday Schedule:-

9-Jan-07;- 5,420 KHz, this one heard off to one side while monitoring the first sending of the Tuesday XPA polytone on 5,424 KHz. The distinctive "3-3-3-5" rhythm at first seemed to be on the XPA signal then realised it was coming from 4 KHz lower. "826 826 826 00000". Not heard on the following Tuesday, the 16th.

23-Jan-07;- 5,420 KHz, "826 826 826 00000" again.

E06 with YL Voice:-

There is an E06 format number station with a female voice instead of the standard OM. I only know of one schedule, Thursdays at 0800 UTC on 11,170 KHz and I am only able to monitor it every once in a while. Was logged in November and December '06 and has continued into 2007:-

18-Jan-07;- 0800 UTC, 11,170 KHz;- calling "674", very weak signal, unable to make out the DK/GC or 5F groups. Ended after 0805z. Carrier with tone was up at 0740z this morning, "674" spoken a couple of times 0748z. Was a reasonable signal at this time but had become much weaker by start-up on the hour.

8-Feb-07;- 0800 UTC, 11,170 KHz;- I was able to listen this morning for one reason and for one reason only;- a couple of inches of overnight snowfall meant that no road traffic was moving in my part of the world and I was unable to get to work. It doesn't take much to shut down everyday life in the U.K.! So a chance to look for early morning number stations, then! This YL version of E06 still on in February. Same frequency as the last three months. Calling "674", DK/GC "295 295 8 8", much stronger signal than on previous loggings, up to S8, lower sideband well suppressed. The eight 5F groups were, "54529 44590 31684 55716 45233 53752 26455 82742". Ended just before 0806z with DKDK GCGC and "00000".

[Txn Peter]

Finally two E06 log s-- a pleasure to include from Group as put in the exact standard we like [Thanks Sam and IW]

7710kHz 1604z 15/02

THUR

604 rptd 285 163

97377 09409 41794 07958 30432 59791 10793 45091 19472 69809 39403 89377
64587 07767 70275 97948 06765 70191 58953 01268 29538 00882 92384 59428
96715 25327 48973 27957 55992 46713 06808 87638 01060 11713 97822 52382
40927 70202 46346 55342 40209 67368 24251 02180 63640 30217 94626 56148
64306 21055 70262 16574 68861 98180 50408 62190 02309 11715 06479 26521
04330 12966 42162 57152 10740 45388 13879 60676 20027 24150 58840 41031
73717 36516 31421 20303 22847 78990 06850 87964 62139 04540 28798 65846
91098 79272 05001 98847 06103 69771 84844 54866 53365 46938 41027 78289
67208 62998 76757 17260 49058 57520 43578 46763 30209 56957 18508 27227
17239 94296 17745 74363 98152 39430 06480 29191 99149 22193 19836 00199
04365 78765 25299 21965 52811 16522 10988 58260 79122 71704 43845 40872
21722 65305 92503 30723 35811 97954 42671 13241 66365 45087 11556 42219
80466 11537 22313 73553 88213 02114 79096 32664 09400 35389 16607 41683
83436 56313 86936 39346 83184 81204 11359 285 285 163 163 00000 eom 1632

5380kHz 1830z 25/02 E06 "690 690" call up then

347 165

77915 15762 08466 32635 02128 34890 90619 63478 94992 62532
64192 86452 87413 80601 10162 55766 34429 86093 31898 41589
04059 26807 71878 36888 08798 72954 48590 84960 08943 35886
14487 90444 81013 37000 54309 04021 74354 41215 29772 22696
29225 88231 08292 98865 76666 52753 67950 67949 25853 83826
35432 72379 36918 54708 34171 27087 07624 69512 25773 24724
31223 58866 90997 09688 49607 26239 11095 16185 52828 00461
92562 25874 48159 60845 36158 56833 83507 58372 77458 09942
23144 18480 71786 17213 35651 67644 72561 26328 90214 16080
24212 09229 35503 69449 87208 93801 75435 49685 36783 25618
28240 41978 83678 93095 37744 14979 56230 38836 81479 45161
70325 60437 35405 81032 02169 58117 08695 29967 55732 89114
89771 03429 02847 85384 67032 00850 36288 81328 51957 21757
04539 45670 15791 03975 17424 80110 01980 82055 93282 48039
51250 99520 96160 88762 57104 49313 96263 50202 49426 53672
83059 58739 42630 22761 75893 68650 25064 08715 61915 98841
20446 54076 66879 53852 41670

347 165 00000

[Txn IW]

E07 [IB]

PoSW's logs and analysis for Jan/Feb, followed RNGB's E07 logs and analysis for January and other supporting logs:

The E07 English language continues with the long established schedules. i.e Sunday + Wednesday starting at 1800 UTC, Monday + Wednesday starting at 2100 UTC and Thursday starting at 2110 UTC. Frequencies used are as in the same month in 2006 with the exception of Thursday's transmission which vanished in the early autumn and was discovered again in November 2006 on 6,777 and 5,449 KHz plus, in the case of a "full message" 4,483 KHz - and not 4,883 as I typed in error last time - these frequencies also used in December '06, January '07 and continue to be used in February.

Sunday + Wednesday Schedule:-

7-Jan-07, Sunday;- 1800 UTC, 6,774 KHz, "788 788 788 000", very low mod, only just audible.

1820 UTC, 5,836 KHz, second sending, very low mod, could just make out the "zero zero zero."

Same frequencies as in January last year; third sending in event of a "full message" should be 1840z, 4,893 KHz.

14-Jan-07, Sunday;- 1840 UTC, 4,893 KHz, third sending thanks to a full message, missed first two, "788 788 788 1", DK/GC "702 35" x 2. Strong signal with better than usual mod.

28-Jan-07, Sunday;- 1800 UTC, 6,774 KHz, "788 788 788 1", DK/GC "733 66" x 2, S9 signal with reasonable mod.

1820 UTC, 5,836 KHz, second sending, difficult copy due to interference from BC stations inside 49 metre band.

1840 UTC, 4,893 KHz, third and the best sending, strong signal with good audio.

4-Feb-07, Sunday;- 1800 UTC, 7,697 KHz, "689 689 689 1", DK/GC "733 66" x 2.

1820 UTC, 6,863 KHz, second sending.

1840 UTC, 5,938 KHz, third sending, almost unreadable due to interference from broadcast stations inside 49 metre band. These frequencies were also used for this schedule in February 2006.

14-Feb-07, Wednesday;- 1820 UTC, 6,863 KHz, "689 689 689 1", DK/GC "733 66" x 2, second sending, same message as at the start of the month.

Monday + Wednesday Schedule:-

3-Jan-07, Wednesday;- 2100 UTC, 6,892 KHz, "887 887 887 000", strong carrier, mod. low but readable.

2120 UTC, 5,896 KHz, second sending, inside 49 metre band so BC interference. These frequencies used in January last year, third sending in event of "full message" should be 2140z, 4,792 KHz.

8-Jan-07, Monday;- 2100 UTC, 6,892 KHz and 2120 UTC, 5,896 KHz, "887 887 887 000", both with better than usual modulation.

15-Jan-07, Monday;- 2100 UTC, 6,892 KHz;- "887 887 887 1", DK/GC "482 23" x 2, strong signal with reasonable mod. Short message, all done by 2105z.

2120 UTC, 5,896 KHz, second sending with usual BC QRM and 2140 UTC, third sending on 4,792 KHz as expected, S9+ signal.

22-Jan-07, Monday;- 2120 UTC, 5,896 KHz, "887 887 887 000", second sending, strong signal with better than usual modulation.

7-Feb-07, Wednesday;- 2100 UTC, 6,931 KHz, strong signal with good mod., and 2120 UTC, 5,928 KHz also a good signal over-riding broadcasters - again - in 49 metre band. Same frequencies used in February last year, third sending in event of a "full message" should be 2140z, 4,894 KHz.

12-Feb-07, Monday;- 2100 UTC, 6,931 KHz, "998 998 998 000", S9+ signal with better than usual mod.

Thursday Schedule:-

11-Jan-07;- 2110 UTC, 6,777 KHz and 2130 UTC, 5,449 KHz, "744 744 744 000", no change of frequencies from those used in the past two months then - that's a bit unusual, that is.

18-Jan-07;- 2110 UTC, 6,777 KHz, "744 744 744 1", eyes down for a "full message", DK/GC "877 45" x 2.

2130 UTC, 5,449 KHz, second sending.

2150 UTC, 4,483 KHz, "744" and "877 45" for the third time.

25-Jan-07;- 2110 UTC, 6,777 KHz, "744" and "877 45", as heard last week.

2135 UTC, 5,449 KHz, second sending in progress, just a kaycee down from RAF VOLMET which was somewhat stronger than usual and had the edge on E07 this evening.

2150 UTC, 4,483 KHz, third sending.

1-Feb-07;- 2110 UTC, 6,777 KHz and 2030 UTC, 5,449 KHz, no change of frequencies, "744 744 744 000".

8-Feb-07;- 2110 UTC, 6,777 KHz and 2030 UTC, 5,449 KHz, "744 744 744 000", both sendings strong signals with good mod.

Now, from RNGB which bears out PoSW's mention of poor Jan sigs:

Not a particularly easy month [Jan] to hear E07.

Much QRM on most frequencies and not helped by poor modulation.

Haven't heard any extra E07 transmissions in the mornings.

The Thursday 2110 sked still using last month's frequencies. Maybe they'll change every 3 months?

Weds 3rd Jan	1800	6774	'788' 1 702 35 33277 80818 etc
	1820	5836	'788' repeat
	1840	4893	'788' repeat
	2100	6892	'887' 000
Thurs 4th	2110	6777	'744' 000
Mon 8th	2100	6892	'887' 000
	2120	5896	'887' 000
Weds 10th	1800	6774	'788' 000
Thurs 11th	2110	6777	'744' 000
Mon 15th	2100	6892	'887' 1 482 23 80758 96980 etc
	2120	5896	'887' repeat
	2140	4893	'887' repeat
Thurs 18th	2150	4483	'744' with 1 message (not copied)
Sun 21st	1820	5836	'788' 1 702 35 33277 80818 etc
	1840	4893	'788' repeat
Weds 24th	1800	6774	'788' 1 702 35 33277 80818 etc
Thurs 25th	2110	6777	'744' 1 877 45 90219 etc
	2130	5449	'744' repeat
	2150	4483	'744' repeat

Sun 28th	1800	6774	'788' 1 733 66 00537 03516 12154 etc		
4790kHz 2140z	15/01 - calling 827 / 1 - S6		DQ&RNGB		MON
2140z	29/01 good copy		AF		MON
4893kHz 1840z	17/01[788 1 702 35] low modulation but good signal (Off Sweden internet radio) TomH us				WED
1840z	21/01[788 1...]		AF		SUN
1840z	28/01[788 1...]		AF		SUN
5836kHz 1820z	03/01[788 1 ...]		AF		WED
5893kHz 2120z	15/01 - calling 887 / 1 – bad		DQ&RNGB		MON
2120z	29/01		AF		MON
5896kHz 2120z	23/01 as per prediction		HJH		TUE
6774kHz 1806z	17/01[788 1 702 35 poor modulation (Off Sweden internet radio) TomH us				WED
6892kHz 2100z	15/01[887 1 482 23]		FN &RNGB		MON
2100z	15/01[887 1 482 23]		FN		MON
8183kHz 1800z	03/01[788 1 ...]		AF		WED

FEBRUARY:

RNGB's E07 log February:-

Fri 2nd Feb	1300	8117	'263' 1 328 51 20202 etc
	1320	6917	'263' repeat
Sun 4th	1800	7697	'689' 1 733 66 00537 03516 12154 etc
	1820	6863	'689' repeat
	1840	5938	'689' repeat
Sun 18th	1800	7697	'689' 1 256 97 97181 81106 25706 etc
Weds 21st	1800	7697	'689' 1 256 97 97181 81106 25706 etc
	2100	6931	'998' 1 261 23 24415 29426 etc
	2120	5928	'998' repeat
	2140	4894	'998' repeat
Thurs 22nd	2110	6777	'744' 1 427 48 47402 52658 74310 etc
	2130	5449	'744' repeat
	2150	4483	'744' repeat

Other logs:

5938kHz 1840z	11/02[689 1 733 66] BC QRM MalcF, mndbs	SUN
6863kHz 1820z	11/02[689 1 733 66]Local Noise evident MalcF, mndbs	SUN
7697kHz 1800z	11/02[689 1 733 66]Local Noise evident MalcF, mndbs	SUN

E10 [O]

E10 Desk For Jan 07

Frequencies in use (USB) + Callsigns

2743	ULX2
3270	MIW2
3360	VLB2
3415	ART
3557	CIO2
3640	SYN2
3840	YHF-1
4270	PCD-1
4461	FTJ
4648	SYN2
4780	COI2
4880	ULX * ULX2
5091	JSR * JSR2
5170	VLB2
5230	MIW2 * VLB2
5339	KPA2
5435	ART * ART2
5437	ART
5820	YHF * YHF2
6270	ULX2 * ULX
6428	ABC
6498	PCD * PCD2
6575	HNC-Z
6840	EZI2 * EZI
6842	EZI
7322	FTJ
7358	FTJ

7540	JSR
7760	ULX * ULX2
7918	YHF2
9130	EZI * EZI2

Special Strings Heard/Reported During Jan 07

Nil Reported or Heard as at 31 Jan 06. (8th month in a row)

Other Recorded Activities & Comments

30/12 1730hrs 9130 EZI G81 SHIHS	
01/01 1530hrs 7540 JSR G81 UEWSM	R
01/01 1530hrs 6270 ULX2	
01/01 1546hrs 5170 VLB2	
01/01 1617hrs 5230 MIW2	
03/01 2100hrs 5091 JSR2	
03/01 2101hrs 5435 ART2	
03/01 2101hrs 5820 YHF2	
03/01 2130hrs 6498 PCD2	
03/01 2130hrs 4880 ULX2	
03/01 2131hrs 5435 ART2	
03/01 2132hrs 5820 YHF2	
03/01 2200hrs 5435 ART G28 SPYWE	
03/01 2201hrs 6842 EZI G74 ESSBD	R
03/01 2230hrs 9130 EZI G? EEPVP	
03/01 2230hrs 5435 ART G39 ITBVZ	
03/01 2230hrs 7918 YHF2	
04/01 1900hrs 4270 PCD1	
04/01 2300hrs 5435 ART G157 XYIUX	R
04/01 2301hrs 6270 ULX G75 RTVKZ	R
04/01 2330hrs 6840 EZI G81 SHIHS	R
05/01 0001hrs 5435 ART G17 HZJZF	R
05/01 0016hrs 5230 MIW2 / 5339 KPA2	
05/01 0030hrs 6498 PCD2	
05/01 0046hrs 4648 SYN2 / 4780 CIO2 / 5170 VLB2	
05/01 0100hrs 5435 ART2	
05/01 0101hrs 6270 + 7760 ULX G50 KJAiT	
05/01 1900hrs 3840 YHF G15 ZBKHKQ	(Credit Manolis)
05/01 1930hrs 5820 YHF2 / 6270 ULX2	
05/01 1931hrs 4270 PCD G9 DSCFI	(Credit Manolis)
05/01 2130hrs 6498 PCD2	
05/01 2330hrs 6840 EZI G81 SHIHS	R
05/01 2345hrs 5230 VLB2 (Norm MIW2 Freq)	
06/01 0001hrs 5435 ART G17 HZJZF	R
06/01 2100hrs 6498 PCD G38 OEOTX	R
06/01 2116hrs 5230 MIW2 + 5339 KPA2	
06/01 2200hrs 5435 ART G25 SPYWE	R
06/01 2201hrs 6842 EZI G74 ESSBD	R
07/01 1630hrs 6948 PCD G157 PAHWQ	R
07/01 1935hrs 5091 JSR G33 QRLLP	
07/01 2302hrs 4560 YHF G44 ZPOXE	
07/01 2303hrs 4880 ULX G75 RTVKZ	R
07/01 2330hrs 6840 EZI G81 SHIHS	R
08/01 1900hrs 3840 YHF-1	(Credit Alpha)
08/01 2033hrs 5435 ART G24 XISTI	
08/01 2100hrs 6498 PCD G38 OEOTX	R
08/01 2300hrs 5435 ART G157 XYIUX	R
08/01 2303hrs 4880 ULX G75 RTVKZ	R
08/01 2330hrs 5435 ART2	
09/01 2117hrs 3270 + 5230 MIW2	
09/01 2201hrs 6842 EZI G74 ESSBD	R
10/01 0001hrs 5435 ART G17 HZJZF	R
10/01 2030hrs 6840 EZI G43 LUBIH + G94 BCJHV?	
10/01 2031hrs 4880 ULX2	
10/01 2046hrs 6840 EZI inprogress when swamped by another English speaking transmission E27? (Have Recording)	
10/01 2103hrs 5435 ART2	
10/01 2104hrs 6498 PCD G38 OEOTX	R
11/01 0032hrs 4480 ULX G50 MMFVX	
11/01 0038hrs 5437 ART G25 PQKQN	R
11/01 0100hrs 6840 EZI2	
11/01 0104hrs 7760 ULX G53 KJAiT	R
11/01 0115hrs 5230 MIW2 + 5339 KPA2	
11/01 0132hrs 5435 ART G17 HZJZF	R
11/01 0135hrs 7918 YHF G43 IFSJP	R
11/01 0145hrs 5170 VLB2	
11/01 0145hrs 4780 CIO2	
11/01 0145hrs 4648 SYN2	
11/01 1700hrs 6270 ULX G47 PQYEP	R
11/01 2031hrs 6840 EZI G43 LUBIH / G94 BCJHV R	

11/01 2330hrs 6840 EZI G81 SHIHS	R
12/01 2030hrs 7322 FTJ G32 CGDIQ	
12/01 2104hrs 6498 PCD G38 OEOTX	R
13/01 2330hrs 6840 EZI G81 SHIHS	R
AWOL FAMILY PROBLEMS	
17/01 1530hrs 7540 JSR G81 UEWSM	R
17/01 2332hrs 6840 EZI G51 ZBZAB	
20/01 0032hrs 4480 ULX G50 MMFVX	R
20/01 0034hrs 5437 ART G25 PQKQN	R
20/01 0046hrs 5170 VLB2	
20/01 0101hrs 5435 ART2	
20/01 0102hrs 4461 FTJ G76 PHYIZ	R
20/01 0116hrs 5339 KPA2	
20/01 0116hrs 5230 MIW2	
20/01 0134hrs 5435 ART G17 HZJZF	R
20/01 0135hrs 7918 YHF G43 IFSJP	R
24/01 0138hrs 6428 ABC	(Still ongoing at 0320hrs c/s only)
24/01 1520hrs 6428 ABC	(Credit Manolis)
24/01 1800hrs 6840 EZI G88 JCOC + G31 EQJOL	(Credit Alpha Vax)
25/01 2013hrs 2743 ULX2	(Unusual timings extended call)
25/01 2118hrs 5339 KPA2	
25/01 2303hrs 6270 ULX G75 RTVKZ	R
27/01 1500hrs 6575 HNC-Z	(Credit Fritz Nusser & at 1600hrs Sam)
27/01 1635hrs 5091 JSR G26 CEFJT	
28/01 2030hrs 9130 EZI G96 OXWYB + G27 HSBGY	(Credit Alpha Vax)
29/01 0130hrs 9130 EZI G96 JJIFJ + G29 NKWPM	(Credit Alpha Vax)
29/01 1530hrs 7540 JSR G81 UEWSM	R
29/01 1530hrs 7760 ULX2	
29/01 1700hrs 6840 EZI G95 BGMRH + G32 GQNHI	(Credit Alpha Vax)
29/01 1830hrs 9130 EZI2	
29/01 1832hrs 6270/4880 ULX G43 HZJOL	
29/01 1845hrs 5170 VLB2	
29/01 2015hrs 5339 KPA2	
29/01 2330hrs 6840 EZI G51 ZBZAB	R
30/01 0001hrs 5435 ART G17 FZJZF	
30/01 0030hrs 6498 PCD2	
30/01 2030hrs 6840 EZI G25 MNBCS	
31/01 2104hrs 6498 PCD G38 OEOTX	R
31/01 2131hrs 6498 PCD2	

R= Repeat Message

Once again there would appear to be no Special Strings reported, this now being the 8th consecutive month and following on from last month no run of extended calls from CIO2,VLB2,SYN2,KPA2 & MIW2 which was the norm over the last few years. Also this month lots of long running repeats with some very long group messagers EZI being a major contributor over the last few days (Credit Alpha Vax). ABC broke its silence on the 24th and transmitted for much of that day, its callsign but nothing further. Likewise HNC-Z on the 27th.

I have recently purchased a WinRadio 313i Professional Receiver which fits inside the computer. It has replaced my PCR1000 scanner as the main machine. The purchase was made through Redixon Ltd at Evesham (www.redixon.co.uk) with the very helpful person by the name of Ian (whom I do thank), and in conversation did mentioned he was aware of Enigma 2000.

BMLongfield E10 Desk Jan 07

E10 Desk For Feb 07

Frequencies in use (USB) + Callsigns

2743	ULX
3150	PCD2 * PCD1
3270	MIW2
3360	VLB2
3415	ART
4461	FTJ
4780	CIO2
4880	ULX2 * ULX * ULX-1
5091	JSR * JSR2
5170	VLB2
5230	MIW2 * KPA2
5339	KPA2
5435	ART * ART2 * ART-1
5820	YHF-1
6210	FDU * FDU-M
6270	ULX2 * ULX
6498	PCD2 * PCD
6840	EZI * EZI2 * EZI-1
6842	EZI
7322	FTJ
7358	FTJ
7540	JSR
7760	ULX
9130	EZI * EZI-1
9202	YHF2
11565	EZI2

Special Strings Heard/Reported During Feb 07

Nothing to report. (9th month) As at the 25th Feb 06

Other Recorded Activities & Comments

1/2 2130hrs 5091 JSR G17 MSYQV
1/2 2216hrs 5230 KPA2 for 4mins then MIW2 till 2222hrs
1/2 2216hrs 5339 KPA2
2/2 0001hrs 5435 ART G17 FZJZF R
2/2 1700hrs 6840 EZI G95 BGMRH + G32 GQNHI R
2/2 1732hrs 5435 ART G18 NBJPZ
2/2 1800hrs 6840 EZI G88 JCOCC + G31 EQJUL
2/2 1832hrs 9202 YHF2
2/2 1832hrs 11565 EZI2
2/2 1832hrs 6270 ULX G43 HZJHL
2/2 2330hrs 5435 ART2
3/2 1800hrs 9130 **EZI-1**
3/2 2201hrs 6842 EZI G74 ESSBD R
3/2 2216hrs 5339 KPA2
3/2 2216hrs 5230 MIW2
3/2 2301hrs 3150 PCD2
3/2 2302hrs 6270 ULX G75 RTVKZ R
4/2 1406hrs 6210 **FDU-M** (SMK)
4/2 1503hrs 6210 **FDU** (SMK)
4/2 2101hrs 4880 ULX G28 GCJAE
4/2 2101hrs 5435 ART2
4/2 2102hrs 5820 **YHF-1**
4/2 2102hrs 5091 JSR2
4/2 2300hrs 3150 PCD2
5/2 2302hrs 6270 ULX G75 RTVKZ R
5/2 2316hrs 5339 KPA2
5/2 2316hrs 3270 MIW2
5/2 2331hrs 5435 ART2
5/2 2332hrs 6840 EZI2
6/2 2302hrs 5435 ART G157 XYIUX R
8/2 0002hrs 5435 ART G17 FZJZF R
8/2 0016hrs 5230 MIW2
8/2 0016hrs 5339 KPA2
8/2 0101hrs 5435 ART2
8/2 0104hrs 7760 + 6270 ULX G53 KJIAT R
8/2 1530hrs 7540 JSR G81 UXVSM
8/2 2032hrs 6840 EZI G167 GZJRP (S&D)
8/2 2102hrs 5820 **YHF-1** (S&D)
8/2 2102hrs 4461 FTJ G167 EHEJN (S&D)
8/2 2118hrs 5230 MIW2 (S&D)
8/2 2119hrs 5339 KPA2 (S&D)
8/2 2132hrs 4880 ULX G91 PWQPM (S&D)
8/2 2132hrs 6498 PCD2
8/2 2149hrs 4648 SYN2
8/2 2201hrs 6842 EZI G74 ESSBD R
8/2 2202hrs 6270 ULX2
10/2 1630hrs 4880 **ULX-1** (Ary B)
10/2 1930hrs 4270 PCD G19 HKFZF
10/2 1932hrs 4880 ULX2
10/2 1946hrs 5170 VLB2
10/2 2100hrs 4560 +5820 **YHF-1** (Ary B)
10/2 2331hrs 5435 ART2
10/2 2334hrs 6840 EZI2
10/2 2346hrs 5170 VLB2
11/2 0017hrs 5230 MIW2
11/2 0018hrs 5339 KPA2
11/2 0031hrs 4880 ULX G50 MMFVX R
11/2 0049hrs 4780 CIO2
11/2 1900hrs 3150 **PCD-1**
11/2 1930hrs 4270 PCD G20 JFCUP
12/2 2301hrs 6270 ULX G75 RTVKZ R
15/2 0002hrs 5435 ART G17 FZJZF R
16/2 2200hrs 6842 EZI G74 XSSBS
17/2 2301hrs 5435 ART G157 XYIUX R
20/2 2301hrs 6270 ULX G75 RTVKZ R
22/2 2200hrs 5435 **ART-1** (S&D)
23/2 0130hrs 6840 **EZI-1** (Alpha)
23/2 1900hrs 3150 PCD G94 NVSVL
23/2 1930hrs 4270 PCD G17 IJCUM
23/2 2116hrs 5230 MIW2
23/2 2116hrs 5339 KPA2
24/2 1700hrs 5435 ART G23 SEGEH
24/2 2130hrs 6498 PCD2

BMLongfield, E10 Desk Feb 07 Thanks for all your input Bob!

E11 [III] *H-FD's Updated Ell Chart can be seen in the Charts section [also M03and S11a] – Thanks H-FD.*

JANUARY:

4181kHz	1630z	01/01 (287/00) FN	MON
	1630z	02/01 (287/00) FN	TUE
	1630z	03/01 (287/00) FN	WED
	1630z	06/01 (287/00) FN	SAT
	1630z	07/01[287/00] AF	SUN
	1630z	14/01[287/00] very weak AF	SUN
	1630z	17/01 [287/00] (off Sweden internet radio) TomH us	WED
	1630z	27/01[287/00] very good AF	SAT
	1630z	28/01[287/00] good AF	SUN
	1630z	30/01[287/00] AF	TUE
7317kHz	0915z	02/01 (284/00)FN QRM4	TUE
	0915z	03/01 (284/00)FN QRM4	WED
	0915z	08/01[284/00] FN	MON
7439kHz	1230z	02/01 (312/00) FN	TUE
	1230z	09/01 (312/00) FN	TUE
	1230z	16/01[312/00] AF	TUE
	1230z	19/01[312/00] AF	FRI
	1230z	23/01 [312/00] MalcF	TUE
	1230z	26/01[312/00] AF	FRI
7749kHz	1030z	02/01 (312/00) FN	TUE
	1030z	09/01[312/00] AF	TUE
	1030z	12/01[312/00] AF	FRI
	1030z	16/01[312/00] AF	TUE
	1030z	19/01[312/00] AF	FRI
	1030z	23/01 [312/00] FN	TUE
9339kHz	1100z	03/01 (186/00) FN	WED

FEBRUARY:

Poacher kindly posted to E2k:

E11 "Oblique":
every Tuesday:
1030 UTC - 7749 kHz
1230 UTC - 7439 kHz
1630 UTC - 4181 kHz
every Wednesday:
1100 UTC - 9339 kHz
1630 UTC - 4181 kHz
every Thursday:
0845 UTC - 8800 kHz
1630 UTC - 4181 kHz
every Friday:
0845 UTC - 8800 kHz
1030 UTC - 7749 kHz
1630 UTC - 4181 kHz
every Sunday:
1630 UTC - 4181 kHz

And more logs:

4181kHz	1630z	01/02[287/00] noisy MalcF, mndbs	THUR
	1630z	13/02[287/00]mndbs	TUES
7439kHz	1230z	13/02[312/00]mndbs	TUES
11104kHz	1115z	27/02[193/00]RNGB	TUES

E11b

8800kHz	0845z	18/01[239/31 attn. 77777 77777 00932 ...] FN, MalcF	THU
	0845z	19/01 [239/31] detail below Tarek*	FRI

*E11b from Tarek who reported: checking E11 today 19/01/07 , I started listening a bit early around 08.15 z I noticed that :
a russian guy appearing on the freq from time to time and giving some numbers, and two portugese OM chatting on the same freq.

08.45Z E 11 started with the following message:

239/31 repeated several times, Attencion,
77777 /00932/10663/17557/44116/66861/02939/82997/46205/24712/
93967/70729/66464/27273/79400/92578/06867/73646/75917/12786/
67796/3661/76791/19562/74546/38914/52073/19777/77777
then out and repeated the message. Each 5F repeated twice. Tnx Tarek.

Fri 19th Jan	0845	8800	239/31 77777 77777 00932 10863 17557 etc	RNGB, FN & MalcF
Thurs 1st Feb	0845	8800	236/39 77777 77777 93712 99443 87046 etc	RNGB
Tues 13th	1115	11104	??/33 77777 77777 92514 50291 70175 etc	RNGB
Tues 20th	1115	11104	199/37 77777 77777 89925 28189 53847 etc	RNGB
Thurs 22nd	0845	8800	236/31 77777 77777 16917 17321 70917 etc	RNGB

WE WOULD BE GRATEFUL TO RECEIVE REPORTS OF E11 ACTIVITY TO SUPPORT H-FD's SPLENDID CHART.

PoSW makes this comment on E11:

E11 "Oblique"- I had only ever heard E11 on a few previous occasions with schedules in the UK early afternoon always with a very weak signal. However, Gert's prediction list in E2K 38 showed an E11 at 1630z on Saturdays and Sundays on 4,181 KHz; heard several times in Jan and Feb, always with a strong SSB signal YL voice with hard-to-place accent and "Two eight seven oblique zero zero".
[Tnx Peter]

E15 [O]

Revised Frequency schedule devised by Manolis Petrakis

UTC	Mon	Tue	Wed	Thu	Fri ¹	Sat	Sun	Call
0700	6715	6715	6715	6715	-	6715	6715	NAS
0800	-	-	-	-	-	-	-	-
0900	-	-	-	-	-	-	-	-
0945	6715	6715	6715	6715	-	6715	6715	VSD
1100	18000	18000	18000	18000	-	18000	18000	BEC
1130	6715	6715	-	6715	-	6715	6715	PAR
1200	5834 ²	5834 ²	5834 ²	5834 ²	-	5834 ²	5834 ²	WSP
1230	-	11170	11170	11170	-	11170	11170	OSS
1300	-	-	-	11170 ³	-	11000	-	BEC

And the phonetics used in station idents:

A – ADAM	B – BAKER	C – CHARLIE	D – DAVID
E – EDWARD	F – FRANK	G – GEORGE	H – HENRY
I – ITALY (INDIA)	J – JOHN	K – KING (KILO)	L – LOUIS / LEWIS
M – MARY	N – NANCY	O – OTTO	P – PETER
Q – QUEEN	R – ROBERT (RITA / ROMEO)	V – VICTOR	S – SUSAN
T – THOMAS	U – UNION	Z – ZEBRA (ZERO / ZULU)	W – WILLIAM
X – XRAY	Y – YOUNG		

E17 [1A]

RNGB writes, "Whilst looking for E27 this afternoon [Tues 09/01]I found E17 warming up on 10240kHz at 1530z with a young lady giving '274' At 1534 an attempt was made at transmitting a message of 15 groups. It was a total shambles, the message just stopping abruptly, and sometimes started from '274' again, or some other random place in the message.

This continued for about 20 minutes when she finally gave up! Then an OLD LADY came on the frequency giving it the '274' treatment. But she faired no better either.

Transmission dropped at 1555, on which I selected the repeat frequency of 8180 kHz.

The Old Lady came on at 1600, and after 5 mins of '274' she finally managed to broadcast the message without mistakes.

It was:-

'274' 590 15 35709 55829 66696 27627 11890 77925 32424 55859 04285 36435
38292 55959 01520 84745 50503 590 15 00000

All groups repeated and ended with SLOW zeroes"

Tues 9th	1530	10240	'274' 590 15 35709 55829 etc	RNGB also FN
	1600	8180	'274' repeat	RNGB

Then for February:

RNGB writes, 5454 kHz at 1802 02/02 : E17 in progress with Old Lady dishing out her numbers, then she stopped in mid-stream, nothing heard for about 10 minutes.

Restarted with a Young Lady at 1811 with ID 274 and then 5 figure groups (but not from the start of the message) It was same message as last Thursday and yesterday. But, very curiously when the Young Lady came on, all the figure 'ONES' changed to 'FIVES'

Maybe she can't pronounce a 'ONE' !

'274' 356 20 67701 14556 54434 54765 74354 51410 76354 66612 59025
25852 48035 22325 27911 21115 87454 05455 08647 85335 68584 07659 356 20
00000 (all groups repeated)

Then RNGB follows with:

The Mother and Daughter duo were at it again today on 10240 kHz, in progress at 1507. (Could have started hours before that!)

It's a NEW message.

Unfortunately, Mother hasn't taught Daughter how to pronounce the figure 'ONE' (sounds like FIVE), and her TWOs and THREEs are a bit iffy as well.

So, I think the message was this:-

'274' 931 25 34255 38539 21038 45479 37454 11457 44344 43512 58855 42952
56763 28623 42684 22985 66287 11114 59077 32825 55600 39954 25447 17764
01241 32987 47454 931 25 00000

The message stopped and restarted several times, and some groups were repeated twice, whilst one I heard was not repeated at all. Most were repeated once.

At 1520 the whole episode was repeated on 8180 kHz and finally finished with '274' repeated by both women and carrier off at 1607

RNGB Feb E17 logs:

Fri 2nd Feb	1803	5454	in progress; '274' 356 20 groups
Mon 5th	1020	10240	'274' 356 20 67701 14556 54434 etc
	1048	8180	'274' repeat
Weds 7th	1507	10240	in progress; '274' 931 25 34255 38539 21038 etc
	1520	8180	'274' repeat
	2158	5140	in progress;
Sat 10th	1455	10240	in progress; '274' 948 20 groups
Tues 13th	1003	8180	in progress; '274' 564 25 groups

7635kHz 0945z	01/02['274' 356 20 67701] etcFN, RNGB	THUR
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More logs:

8180kHz 1530z	07/02. (ID 274, 2 voices, test txm, hum and mic noise in between) FN	WED
1550z	07/02. (same as 1530, no complete msg) FN	WED
10240kHz 1020z	05/02 274 20 20 67705 etc Mndbs, S&D	MON

E17z

Thurs 4th Jan	0800	11170	'674' 825 5 22560 40852? 44559 55874 87565? RNGB
			Every Thursday – same message – but has been quite weak!
			0810 repeat not found.

11170kHz 0800z	18/01[674 825 5] FN	THU
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Thurs 15th	0800	11170	'674' 295 8 54529 44590 35684 55756 45233 53752 26455 82742 295 8 00000
			All groups repeated. The repeat frequency has been reported as 9820 at 0810
			This same message has been sent every Thursday this month.
			I presume this station is a part of the S06 (slow) group.
			It will change frequencies next month. [RNGB]

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 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

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Week 2 was M04 Not heard since September 2000

Transmission heard on Wed 03/01 and Thurs 04/01 by AlphaVax

6507kHz 0953z good clean S8-S9+

8188kHz 1153z: good signal, S8-S9+, some fades down to S6

also AF

5340kHz 1253z: fair to weak signal, S6-S7, fades down to S4

E23 continued:

Message as follows:

00000 11111 22222 33333 44444 55555 66666 77777 88888
99999

70774 43428 03844

70774

19776 26837 42955 37820 77893 17451 87601 26133 66557
85370 68564 68264 34918 41203 34960 76492 40565 80626
41683 09812 66400 84097 87133 06015 75340 86844 47726
08272 39564 63361 14153 29131 71134 91517 06617 01198
29408 55444 08386 81960 35809 33898 09869 03139 77224
73493 34798 13830 56356 25075 74581 68376 79764 15926
54701 96054 86021 85661 82722 46507 69790 09640 19236
25218 85516 00622 32652 38724 06558 16680 18904 65944
94681 46838 13567 18811 23641 84787 40722 67987 44150
51573 07899 76807 78166 63311 52869 25771 85113 49479
34659 80740 41149 91007 87473 98760 81769 52411 80594
06255

43428

74796 40892 95853 99625 08773 54506 54640 31738 50485
49251 48727 54330 80392 23769 25277 74275 96109 94226
42778 58017 31498 05995 15663 90145 83446 94851 11975
53146 03356 95660 54532 51561 33232 20758 87045 65720
28410 43397 21342 38192 74834 23979 00935 29143 71636
00487 94420 40578 78031 95479 58972 17285 30452 10606
65890 21110 50144 24670 43371 02442 43982 67193 59188
13157 27324 24189 05196 92292 62748 50368 01641 29350
25604 57728 81778 61306 33469 28035 59518 41642 05699
75566 87306 19055 44103 72144 43269 48884 47292 69106
92966 27185 76703 27690 95797 93586 66704 16292 28312
98938

03844

25048 61099 10241 58148 22325 89421 30267 95191 23178
60903 68407 95289 10131 70391 77890 72220 57763 81052
77844 07429 70705 06695 35145 72215 04215 10015 65662
60331 54131 72211 27944 45546 37197 11178 04604 18077
52343 11394 17281 86740 17608 03990 85104 31184 39545
31547 12339 94327 06303 74039 End.

8188kHz 1153z 04/01 ended 1236z AF THURS

E25 [O]

From the E25 desk.

ID's used with messages so far (new ones are underlined):

222 275 440 555 720 730 780 835 (arabic counting) and 906

ID's used with control messages so far (new ones are underlined):

200 209 220 227 270 272 276 277 377 440 442 477 557 635 784 785 788 830 837 875 877 905 909

News

new slot found in the morning, around 07.30, 08.00 and 10.00z

E25 has been heard in the US

New song heard: " Qar'eat al Finjan "

E25 uses windows (98)

The message contains a groupcount: digit 3 and 4 from the second group in reverse. Found by RRGB.

RRGB writes:

"I have been looking at these messages and I note that:- The 3rd and last group is probably Decode Key, as it is at start and end of message. The total number of groups (excluding ID) is always last pair of 2nd group (ie. 9080) = 08. The first group is probably message serial number. So that leaves the first pair of figures in 2nd group. What do they mean??".

Very nice RRGB!

In short:

January

06 12.13z with msg 835 10 7050 5555 55555 55555 55555

07 12.10z rpt of 06/01

08 12.15z 830 11 12

17 12.44z 780 788 27 and 780 with 19 group msg

18 12.45z 788 27 28

21 12.40z 780 with 21 group msg

22 12.08z 830 12

22 12.35z 780 with 21 group msg, rpt of 21/01
 23 12.23z 555 with 17 group msg
 24 12.26z 555 with 17 group msg, rpt of 23/01
 24 12.44z 780 with 21 group msg, rpt of 21/01
 25 12.26z 557 4
 25 12.46z 785 29 30 788 27 28
 26 12.07z New music heard " Qar'eat al Finjan ".
 28 12.45z 780 785 30 29 788 28 27 than 8 group msg
 29 12.41z 780 785 30 29 788 28 27 than 780 with 8 group msg, rpt of 28/01
 31 12.12z 830 13
 31 12.41z 780 785 29 30 788 27 28 than 780 with 6 group msg

February

01 12.46z 780 785 29 30 788 27 28 than 780 with 6 group msg, rpt of 31/01
 02 11.56z 275 with 17 group msg
 03 11.54z 275 with 17 group msg, rpt of 02/02
 03 12.13z music only
 04 12.17z 835 with msg in Arabic, 10 groups
 04 12.40z 780 785 29 30 788 27 28 than 780 with 6 group msg, rpt of 31/01
 05 12.11z 835 with msg in Arabic, 10 groups, rpt of 04/02
 05 12.41z 780 785 29 30 788 27 28 than 780 with 6 group msg, rpt of 31/01
 06 07.54z Arouh le Min music only
 06 11.24z Music only, Inte Omri
 06 11.53z 277 1 2
 06 12.08z 835 with msg in Arabic, rpt of 05/02
 06 12.48z control msg, than 780 with msg
 07 07.49z music only
 07 12.15z 835 with Arabic msg
 07 12.45z 780 788 27 28 785 29 30
 08 12.43z 780 788 27 28 785 29 30 than into msg id 780 with 6 group msg
 09 10.06z music only
 09 12.42z 785 31 32 788 27 28
 10 07.27z Arouh Li Min music only
 11 07.35z Oriental music only
 11 12.47z 785 33 34 788 27 28
 12 10.32z music only
 13 08.15z music only
 13 12.05z 830 17
 14 07.26z music only
 16 12.06z 835 with msg in Arabic, 8 groups
 17 12.06z 835 with msg in Arabic, 8 groups, rpt of 16/02
 20 12.29z 555 with 13 group message
 21 11.50z Winsows 98 ding.wav
 21 12.00z 830 19
 21 12.28z 555 with 13 group msg, rpt of 20/02
 22 12.46z 780 788 than into msg for 788 with 6 group msg
 23 12.45z 785 35
 24 07.09z music only
 25 12.02z 830 20
 27 12.03z 830 21

In detail

E25 9450 kHz AM 1213z 06/01 [Music intro, OM calling "835 830 10". Short message in Arabic: "7050/7050 5555/5555 5555/5555 5555/5555 5555/5555"]. MG SATURDAY

E25 9450 kHz 1210z 07/01 [Music intro, 835 837 11, message in Arabic as of 06/01] MG and TZ SUNDAY.

Note from TZ: The usual formula applied first 4F in twos and then the following are separate...but the first 4F he said sa'ba', sifr, khamisa, sifr "7""0""5""0" (separate) not in twos as usual and then repeated them again as usual, the rest of the message with the usual way khamisa we khamseen khamisa we khamseen "55""55", then khamisa khamisa khamisa khamisa "5""5""5""5".

E25 9450 kHz 1215z 08/01 [music intro, 830 11 12 new OM, good modulation, excellent signal] MG MONDAY

E25 9450 kHz 1244z 17/01 [low strength carrier at 1232z. full power at 1238z, weak 1000 Hz tone at 1244z. OM 780 788 27 then 780. 19 grp message to 780. QRT 1257z] MG WEDNESDAY
 Message: 3909 5091 5941 5814 0798 7670 5335 7429 9312 9030 2737 7587 2909 0407 4494 6094 5598 9856 5941

E25 9450 kHz 1245z 18/01 [788 27 28 no intro music, fabulous signal] MG and AF THURSDAY

9450 kHz 1240z 21/01 [mic taps to adjust gain, 780 too much gain overdrive, g21 message. OM tries to resemble his mechanical counterparts!] MG SUNDAY

9450 kHz 1208z 22/01 [music intro, other OM calling 830 12, very good sig] MG MONDAY

9450 kHz 1235z 22/01 [1000 Hz tone for 8 min OM calling 780, 21g msg as of 21/01 fabulous signal] MG, AF and TomH MONDAY

E25 9450 kHz 1223z 23/01 [Music intro, 555 g17 msg] MG and Mndbs TUESDAY

Message: 1092 6171 3010 6553 7095 2187 1503 4975 9753 6852 6226 2203 2099 1141 5388 4279 3010

While Mndbs Noted:

Two voices as shown above both male. Music seemed to be on tape as it became unstable near the start. AM wide used for intercept. Signal S6 - 7 slight fades. Voice was slightly muffled.

E25 9450 kHz 1226z 24/01 ["Arouh Le Min" intro with a lot of TX failures, OM calling 555, TX failure then other OM straight into 17g message, as of 23/01] MG WEDNESDAY

E25 9450 kHz 1244z 24/01 [780 other guy into 21g message as of 21/01 BUT 2nd group is 8012 instead of 7012!] MG and AF WEDNESDAY

E25 9450 kHz 1226z 25/01 ["Arouh Le Min" intro, 557 4, RTTY QRM] MG THURSDAY

E25 9450 kHz 1246z 25/01 [785 29 30 788 27 28, RTTY QRM] MG and AF THURSDAY

E25 9450 kHz 12.07z 26/01 [New music from our friends 1207z was there, an attempt to transmit a message made ~1223z, music ended at 1229z] MG

TZ later made this note:

"It's a song by the well known Egyptian singer " Abd Elhalim Hafez " a singer from the same era of " Om Kalthoum " the lady of the 2 musical intros of E25: Enta Omary " you are my life" and : Arooh lemeem " whom should I go to. The song of Abd Elhalim Hafiz is called " Qar'eat al Finjan " meaning the fortune teller lady who ready the coffee cup. it's written by the Syrian poet " Nezar Qabbany " and it's based on a common habit in the middle east of fortune tellers claiming that they can read your future by looking into your coffee cup after you drink it". Thanks TZ!
E25 9450kHz 12.45z 28/1/07 [Ninner guy with 780 785 30 29 , 788 28 27 repeated several times , then message X 3: 9496 90801831 3673 1003 5721 4851 1831] TZ and AF.

E25 9450 kHz 1241z 29/01 [Tone, 780 785 30 29 788 28 27 many times then 780 many times, g8 message. QRT 1254z EOM EOT. Excellent signal] MG and Mndbs MONDAY

Message: 9496 9080 1831 3673 1003 5721 2851 1831.

Note the reverse counting. Also the OM initially missed "785". He started calling "780 30 29 788 ...".__

E25 9450 kHz 1212z 31/01 ["Arouh Le Min" music intro, bg noises, 830 13. Carrier present since 1201z] MG WEDNESDAY

E25 9450 kHz 1241z 31/01 [Test tone & TX failures, voice, bg noises, 780 785 29 30 788 27 28 repeated then 780 repeated, g6 1310 0160 1111 1754 2130 1111] MG WEDNESDAY

E25 9450 kHz 1246z 01/02 [780 785 29 30 788 27 28 then 780 g6 message as of 31/01. TX failures] MG THURSDAY

E25 9450 kHz 1156z 02/02 [1000 Hz tone 275 270 1 repeated, 275 repeated, g17 msg. Carrier was there from at least 1155z-1222z with some breaks. Excellent signal] MG FRIDAY

Message: 5210 1071 2311 7561 0122 6180 9057 5862 3646 5115 1877 0261 4551 8868 4001 8636 2311

E25 9450 kHz 1154z 03/02 [1000 Hz tone 275 270 1 repeated then 275 repeated, g17 message as of 02/02] MG SATURDAY

E25 9450 kHz 1213z 03/02 [Music only QRT 1215z] MG SATURDAY

E25 9450 kHz 1217z 04/02 ["Arouh Le Min" mx intro 835, message in Arabic, low power] MG SUNDAY

Message: 9001 / 90 10 6260 / 26 6 0 4621 / 64 12 1410 / 41 1 0 7662 / 67 26 8917 / 98 71 9416 / 49 61 2339 / 32 93 9260 / 29 6 0 7479 / 47 97.

E25 9450 kHz 1240z 04/02 [1000 Hz tone 780 788 27 28 785 29 30 repeated then 780 repeated g6 msg as of 31/1] MG SUNDAY

E25 9450 kHz 12:42z 04/02 [tone up plus USB voice traffic Tone stops and starts at 12:43 (50) voices stop. Tone continues to 12:45. Calling 780 788 27 28 785 29 30 over and over than into message: id 780 1310 1160 1111 1754 2130 1111] Mndbs

E25 9450 kHz 1211z 05/02 [music intro (low audio) 835 message in Arabic as of 04/02] MG MONDAY

Message:

90 10 / 9001

26 6 0 / 6260

64 12 / 4621

41 1 0 / 1410

76 62 / 6726

98 71 / 8917

46 91 / 6419

32 93 / 2339

29 6 0 / 9260

47 97 / 7479

Note the reversal: Yesterday single digits were first!

E25 9450 kHz 1241z 05/02 [1000 Hz tone 780 788 27 28 785 29 30 repeated then 780 repeated, g6 msg as of 31/01] MG and S&D MONDAY

E25 9450 kHz 0754z 06/02 ["Arouh Le Min" music only, excellent signal with breaks] MG TUESDAY

E25 9450 kHz 1124z 06/02 [Music, next track is "Inte Omri" ended 1146z. No message, excellent signal] MG TUESDAY

E25 9450 kHz 1153z 06/02 [1000 Hz tone, "277 1 2" repeated, excellent signal QRT 1206z] MG TUESDAY

E25 9450 kHz 1208z 06/02 ["Inte Omri" low audio, low signal, "835" repeated, yesterday's msg in Arabic] MG TUESDAY

E25 9450 kHz 1243z 06/02 [1000 Hz tone (nicer envelope!) repeat of yesterday's procedure (6g msg) excellent signal] MG TUESDAY

E25 9450 1249z 6.2. [ip. 780 788 27 28 785 29 30 780 msg EOM EOT) FN Tue very strong sig E25 msg was (1310 1180 1111 1754 2130 1111 333 1310 1160 1111 1754 2130 1111) FN and S&D.

E25 9450 kHz 0749z 07/02 [music only, no message, excellent signal with digi QRM. QRT 0800z] MG WEDNESDAY

E25 9450 1215z 7.2. [ID 835, then Arabic txt) FN Wed QSA1] FN

E25 9459 1245z 7.2. [780 788 27 28 785 29 30, 4FGx13] FN Wed QSA3

E25 9450 kHz 1243z 08/02 [calling 780 788 27 28 785 29 30 over and over, than into message: 780 780 780 780 780 780 message, message, message (sent fast) 1319 2160 1111

1754 2130 1111] Mndbs RRGB and CS (CS in US writes: "Picking up E25 now on 9450, tx started at 1243z. Very weak, but it is there!")

E25 9450 kHz 1006z 09/02 [music only, excellent signal, QRT 1021z] MG FRIDAY

E25 9450 kHz 1242z 09/02 [1237z carrier up, 785 31 32 788 27 28 repeated, 1246z stopped, 1253z QRT. Excellent signal] MG CS and Alpha
FRIDAY

E25 9450 kHz 0727z 10/02 ["Arouh Le Min" music theme only, QRT 0734z excellent signals] MG SATURDAY

E25 9450 kHz 0735z 11/02 [Oriental music, QRT 0739z, signal almost excellent] MG SUNDAY

E25 9450 kHz 12.47z 11/02/2007 [785 33 34 788 27 28] Alpha.

E25 9450 kHz 1032z 12/02 [Carrier, music & brief chat in the background, QRT 1104z, excellent signal] MG MONDAY

E25 9450 kHz 0815z 13/02 [Music, voices in the beginning, excellent signal strength] MG TUESDAY

E25 9450 kHz 1205z 13/02 ["Inte Omri" intro, 1217z OM "830 17" a little weaker signal, QRT 1229z] MG and FN TUESDAY

E25 9450 kHz 0726z 14/02 [Oriental music only, QRT 0749z, near-excellent signal but low audio] MG WEDNESDAY

E25 9450 kHz 12.06z 16/02 and 17/02 [usual musical intro of "enta O'mri" by Om Kalthoum , but today they played it twice - first time to hear that - then OM with the call for 835 several times followed by the following message in Arabic :

12.8.0 - 2.1.8.0

86.7.0 - 6.8.7.0

7.0.86 - 7.0.6.8

53.42 - 3.5.2.4

89.43 - 9.8.3.4

1.0.69 - 1.0.9.6

89.7.0 - 9.8.7.0

47.37 - 7.4.7.3

Rpt X 3 , EOM,EOT

as usual the first four F are in couples except when they have Zero i.e

8670 it's said eighty six ,seven,zero

7086 as well seven zero eighty six

you may notice as well that the second and the third F are in reverse order

8670/7086] TZ and MG

E25 9450 kHz 12.29z 20/02 [555 - 0220 6131 8831 9928 6332 2275 0338 5005 7021 8515 7547 1460 8831] Alpha

E25 9450 kHz 1150z 21/02 [2x Windows 98 ding.wav] MG WEDNESDAY

E25 9450 kHz 1200z 21/02 ["Inte Omri" mx intro, new OM calling "830 19"] MG and FN WEDNESDAY

E25 9450 kHz 1228z 21/02 ["Arouh Le Min" mx intro, seriously-sounding

OM calling 555, 13g msg as of 20/02] MG Alpha and Romero WEDNESDAY

E25 9450 kHz 1246z 22/02 [780 788 repeated, then 788 repeated, 4x "Message", 6g msg: 9211 3160 6610 3654 6216 6610. OM was a bit confused, 1251z "EOM"x3, "EOT 7..." . No message for 780? Excellent signal] MG and Izzywizzy THURSDAY

E25 9450 kHz 12.45z 23/02 [calling 785 35 785 35 over and over] Izzywizzy.

E25 9450 kHz 0709z 24/02 [Arab music (Umm Kulthum), some playback speed jumps, QRT 0735z] MG SATURDAY

E25 9450 kHz 1202z 25/02 ["Inte Omri" intro then 830 20 repeated] MG SUNDAY

E25 9450 kHz at 12.03z 27/02 [intro music until 12.15 then calling 830 21 830 21 830 21 830 21 830 21 830 21 830 21 until 12.20 then..... silence] Izzywizzy.

Thanks for your logs (in random order): MG, RNGB, S&D, TZ, Mndbs, FN, Izzywizzy, Alpha, CS, Romero

*AN E25 SPECIAL, PENNED BY MANOLIS OF GREECE, CAN BE READ AT THE END OF THIS NEWSLETTER. IT IS AN EXCELLENT
PIECE OF ANALYSIS – A BIG THANK YOU TO MANOLIS FOR MAKING THIS AVAILABLE.
A SINGULAR COPY WILL ALSO BE PLACED IN THE FILES SECTION OF OUR GROUP.*

E27

6840kHz 2045z	10/01 Cuts E10 EZI BM	WED
2045z	15/01 Cuts E10 EZI MikeL & AV	MON

15/01 Intercept detail and analysis from ML

20.40z carrier up S9+20

20:45.30z straight into TX - no carrier break or intro tones, just "message"

Started with 55555 stutter group, 20 gps, same message as caught by Bob M on Wed 10 Jan - ending 63205 78554 11111 m e

20:47.15z ends, carrier down

EZI had gone.

Interestingly this strength carrier came up at 18.40z / 18.59z / 19.40z for only 10 secs each time - nothing further heard. From 20.30z there was a duplex male/fem TXgoing on under EZI.

Transcript of 15/01 from MikeL

Msgag(er)
55555 78123 04812 30299 14785 23001 64577 23654 12089 64587
2.7 sec pause
49875 36595 32100 45141 97852 31255 01458 63205 78554 11111
messag(er)
end

TX time 2min 8sec

And here's the interesting bit from PoSW:

New voice station E27;- I am sure that this new number station reported in E2K newsletter Issue 38 is the same one I heard twice in 2006 on 9,061 KHz, once in August 06 and once in September 06 but couldn't find it again.

I have heard a similar transmission just once in 2007, on Monday 15-Jan at 2046 UTC on 6,840 KHz, male voice, SSB, transmission in progress, managed to log the last 5Fs, ".....64589 (pause) 49875 36595 32100 45141 97852 31255 01458 63205 78554 11111". Finished 2047 and 15 seconds UTC with "Message-er end".

As with the similar transmissions last year I have not heard it again. [Tnx PoSW]

G06 [IA] [G06 Schedules across one year, via H-FD at end of NL]

Tues 2nd Jan	2000	4025	'308' 462 59 68396 59498 etc	RNGB also AF
Thurs 11th	1830	4519	'271' 713 31 04664 31104 etc	RNGB also AF
Fri 12th	1930	4792	'436' 713 31 04664 31104 etc	RNGB also AF

4025kHz 2000z	01/01[308 462 59 68396...] ends 2014z	AF	MON
4519kHz 1830z	25/01[271 713 31 04664...]	AF	THURS
4790kHz 1930z	26/01[713 31 04664...]	AF	FRI
5110kHz 1900z	01/01[308] ends 1914z	AF	MON

Now onto PoSW's G06 analysis; note final paragraph.:

The first Monday in the month G06 schedule has survived into 2007 as have the Thursday 1830 UTC and Friday 1930 UTC schedules; and the Saturday 2200 UTC schedule has emerged again in January on the same frequency as in January last year.

First Monday in the Month Schedule:-

The first Monday in January 2007 was New Year's day itself on which I was suffering from a bad cold to such an extent that I completely forgot to look for G06! However, on the chance that a full message had been sent which would mean a "next day repeat" I checked the same frequencies used in January 2006 on the following day, i.e. Tuesday the 2nd and was rewarded with the following:-

1900 UTC, 5,110 KHz, call "308" - as always - DK/GC "462 462 59 59", strong signal.

2000 UTC, 4,025 KHz, second sending, very strong, S9+ signal

5-Feb-07;- 1900 UTC, 5,455 KHz, "308 308 308 00000", weak signal, S5 at best and sank into the noise several times during the four minutes of transmission. Same frequency was used in February last year but on that occasion was S9+. Carrier with tone was up at 1847z this evening with a single spoken "Drei null acht" about a minute afterwards.

2000 UTC, 4,465 KHz, second sending, a much stronger signal here, S9+. Same frequency used in February 2006.

Thursday 1830 UTC Schedule:-

28-Dec-06;- 4,519 KHz, calling "271", DK/GC "528 528 24 24", same as when last heard on 14-December. Started approx. 30 seconds before the half hour. Strength up to S8, lower sideband well suppressed.

11-Jan-07;- 4,519 KHz, call "271", DK/GC "713 713 31 31", S9 signal, ended just before 1840z.

25-Jan-07;- 4,519 KHz, "271" and "713 713 31 31" as on the 11th, very strong, S9+ signal.

8-Feb-07;- 4,519 KHz, call "271", DK/GC "919 919 24 24", S9+ signal. Started at 1829 UTC, one minute early.

Friday 1930 UTC Schedule:-

29-Dec-06;- 4,792 KHz, call "436", DK/GC "528 528 24 24". I could not positively identify this one on the last occasion it was expected to show up on December the 15th - there having been an 1830z sending on the previous day - almost certainly due to some kind of propagation disturbance which had played havoc with this part of the spectrum. No problems in copying this evening, an S9 signal with the lower sideband well suppressed.

12-Jan-07;- 4,792 KHz, started approx. 35 seconds early, call "436", the DK/GC and 5Fs the same as yesterday's 1830z transmission, "713 713 31 31".

26-Jan-07;- 4,792 KHz, "436" and "713 713 31 31" as on the 12th, S9 signal.

9-Feb-07;- 4,792 KHz, call "436", DK/GC the same as yesterday's 1830z sending, "919 919 24 24". This Friday G06 is well known for warming up the frequency long before transmission time and this evening was no exception; there was a carrier on 4,792 when checked at 1828z, just over one hour before start-up. Just after 1830z the German YL voice called numbers 1 to 9 several times, then plain carrier for the remainder of the hour until 1930z.

Saturday 2200 UTC Schedule:-

I had lost touch with Saturday G06 schedules in the summer, autumn and up to the end of 2006 being unable to find any activity at 2120 or 2125 UTC on the several frequencies which had been logged in previous years. There had been a 2200z G06 noted in January and February 2006 on 4,441KHz, +/- a few KHz, and it is back in 2007;-

20-Jan-07, Saturday;- 2200 UTC, 4,441 KHz, "843 843 843 00000". Very strong signal, S9+, lower sideband well suppressed. Tuned in a receiver to 4,441 just before the hour on the chance that it might appear but there was no sign of a carrier warming up the frequency so looked like a "no show"; but was using the "concealment" routine sometimes used by G06 and her relatives whereby there is no constant carrier up before transmission time. Came up with a mighty signal exactly on the hour with four minutes of "no message". Seemed to be alternate Saturdays last year so may have also ran on 6-January.

3-Feb-07 :- the Saturday 2200z G06 appeared again this evening, 4,441 KHz, "843 843 843 00000" for four minutes. Carrier with tone was up at 2142z, single spoken "Acht vier drei" 2144z; no "concealment" routine tonight, steady carrier until start-up on the hour.

17-Feb-07:- 4,441 KHz, was expected to appear again this evening since the routine last year seemed to be alternate Saturdays. "843 843 843 00000". S9+ with lower sideband well suppressed. Parked a receiver on 4,441 about 20 minutes before the hour and saw the s-meter swing up at around 2144z. Tone for a while, a single "843" then plain carrier until start-up, no attempt at "concealment".

In March last year the 2200z Saturday G06 was logged on one occasion on a higher frequency, i.e. 5,252 KHz - this was on 18-Mar-06 - so fans of this Fraulein might care to check this frequency in March this year. [Txn Peter]

[G11\[III\] : See editorial](#)

From Poacher:

1800 UTC - 5797 kHz (31.01.07)

1800 UTC - 5782 kHz (01.02.07)

SLAVIC STATIONS

Chart 28 [Amended and Corrected – Updates that in NL38].

M10, S10d and S17c from 1st November 2006 to 28th February, 2007

Compiled by the Slavic Desk

Freq 1	Freq 2	Sun	Mon	Tues	Wed	Thurs	Fri	Sat	Activity Designation
			S1050	S0150					ALT
3522	5027							0210	R
	5027			0310					R
3563	5094			0330		0330			R
3522	5027				0340				ALT
3522	3659		0400	0400		0400			R
	5027							0410	R
					S0410	S0410			R
8175				0430		0430			R
3522	4007			0430					R
3522	5076		0450	0450					R
3296			S0450			S0450			R
3522	3810	0535	0535		0535			0535	R
			S0540	S0540					NC
						S0600		S0600	
14565	15898	0615	0615	0615	0615	0615	0615	0615	R
	5076							0700	R
								S0755	R
5945	9455				0800	0800			ALT
13405	14565				S0820	S0820			ALT
12295					0830				R
14798					0840	0840			ALT
						1100	1100		NC
6945	11002		1140	1140					ALT
14565			1200	1200					R
10582					1200	1200			ALT
14445						S1230	S1230		ALT
5945	9166	1250	1250	1250	1250	1250	1250	1250	R [S17c]
5945	9971		1340	1340					ALT

Freq 1	Freq 2	Sun	Mon	Tues	Wed	Thurs	Fri	Sat	Activity Designation
9986	14978		1410	1410					R
11417						1440	1440		ALT
5945	9455		1500	1500					ALT
8175	9986							S1520	R
11417						1530	1530		ALT
4485	6758	1610	1610						ALT
4030	6763	1630	1630		1630			1630	R
5945	9165			1640					R
3522	5301		1700	1700					ALT
5945					1700	1700			ALT
4958	7745			1720		1720			R
4958	7605						1720		R
5028	7605		S1740	S1740					R
3631	5471	1800				1800			R
3522	5301		1820	1820					ALT
5904	6945				S1820	S1820			ALT
3631	8143				1840	1840			ALT
7745	9986			S1855	S1855				ALT
3583	4007				1900	1900			ALT
3810	5861	1920	1920						R
5945					1940	1940			ALT
	9385			1950		1950		1950	R
2846	3564		S2020			S2020			R
5272	5904	S2050		S2050					R
3522	4007		2100		2100				R
4446	5904					S2130		S2130	R
3522	5301		2200	2200					R
4836	7380		2200	2200					R

All freqs \pm 2kHz

Chart 28 above is a repeat of that shewn in the ENIGMA 2000 Newsletter, Issue 38 and has been amended and corrected.

Chart 29, shewn after the analytical notes lists the *current active frequencies*.

Very little change to report for January and February 2007. The triplet problems remain and I doubt if we will ever solve the mystery despite a number of ideas from close members.

One promising theory from RNGB unfortunately does not hold up [sorry Richard].

From 1st March collecting of triplet information will have discontinued although I will continue to probe the mass of information, received from participating members, that is now compiled in the hope that something will emerge. My thanks to all those who have taken time to send in reports or triplet detail as requested [5 out of a membership of 682 or just 0.73%].

A new frequency has been located by RNGB: MON/TUES 1140z is now 6945/11002kHz; well done Richard.

The increased signal strengths on some schedules is continuing although corrupt keying has been prevalent from mid-January although improvements have taken place from mid-February.

From the beginning of February S17c has fallen in line with the rest of the Group, triplet changes and single frequency operation; unfortunately 5945kHz is plagued with BC QRM and not good for an intercept operator.

A strange happening on Saturday 27th January; at 1240z I tuned in for S17c on 9166kHz to find a loud tty transmission was taking place. This carried on into S17zc scheduled time but no sign of S17c. At 1253:33 the teletype paused, a blip was heard and the tty ceased. The tty was immediately replaced by S17c; both signals were 5/8 on my Icom Rx. This leads me to believe there was a control room cock-up with the same transmitter used for both.

Several other things happening have convinced me that we urgently require an RDF facility. Whilst world wide coverage would be perfect we in the UK would be happy to cover Great Britain to Russia.

A number of our members in Great Britain use AOR Commercial loops [*See advert for such in Monitoring Monthly*]. In my case my equipment is home built and has been described in previous newsletters, with photographs.

My RDF unit now uses ferrite rod antennae which work perfectly well. My second, more portable unit is still with PLondon who has seen and heard the system working. [It's an excellent bit of kit – deep nulls LF to HF – PLondon].

We would like another facility in, say, Denmark/Northern Germany and/or the Mediterranean area. Can anyone help?

That concludes this period's report except to say 'the silent majority is still silent.' 73 Derek [DoK] 28/02/2007.

Now onto Chart 29, covering the current period of activity for M10, S10d and S17c:

Chart 29

M10, S10d and S17c from 1st March 2007 to 30th April 2007

Compiled by the Slavic Desk

Freq 1	Freq 2	Sun	Mon	Tues	Wed	Thurs	Fri	Sat	Activity Designation
6945	8175			S0150	S0150				ALT
4485	6758							0210	R
				0310					R
4485	6758				0340				ALT
3522	4485		0400	0400		0400			R
5471					S0410	S0410			R
3522	5301			0430		0430			R
				0430					R
5301	8190		0450	0450					R
4836			S0450			S0450			R
5917		0535	0535		0535			0535	R
			S0540	S0540					R
9986	11417					S0600		S0600	R
14565	15898	0615	0615	0615	0615	0615	0615	0615	R
5945	9166							0700	R
9986	13405							S0755	R
5078	8190				0800	0800			ALT
9986	13405				S0820	S0820			ALT
					0830				R
14445					0840	0840			ALT
					1000	1000			ALT
						1100	1100		ALT
5945	9166		1140	1140					ALT
			1200	1200					R
8143	12226				1200	1200			ALT
						S1230	S1230		ALT
5301	8190	1250	1250	1250	1250	1250	1250	1250	R [S17c]
5945	9166		1340	1340					ALT

Freq 1	Freq 2	Sun	Mon	Tues	Wed	Thurs	Fri	Sat	Activity Designation
8175			1410	1410					R
14445						1440	1440		ALT
5945	9386		1500	1500					ALT
8175	9986							S1520	R
14565						1530	1530		ALT
5028	7605	1610	1610						ALT
5078	7745	1630	1630		1630			1630	R
7605	11417			1640					R
5078	8112		1700	1700					ALT
5917	9166				1700	1700			ALT
7475	9986			1720		1720			R
7475	11417						1720		R
6945	10582		S1740	S1740					R
5945	9369	1800				1800			R
4836	9369		1820	1820					ALT
7745	9385				S1820	S1820			ALT
14377					1840	1840			ALT
				S1855	S1855				ALT
4030	6758				1900	1900			ALT
5945	10125	1920	1920						R
8190	12295				1940	1940			ALT
7745	9166			1950		1950		1950	R
2774	3383		S2020			S2020			R
6894	7745	S2050		S2050					R
3522	4782		2100		2100				R
5474	6894					S2130		S2130	R
3522	4782		2200	2200					R
4485	5945		2200	2200					R

All freqs \pm 2kHz

Activity Designations:

R: Regular transmissions on the time and day shown weekly

ALT: Regular transmissions on the day and time shown, but on alternate weeks.

NC: Not Confirmed

In order to clarify these changes I am now including the rotational changes for the full year together with relevant chart numbers for guidance, for years 2006 and 2007/8.

1 st May to 31 st August	[Summer Schedules]	Chart 25 update [26] Newsletter 36
1 st Sept to 31 st Oct	[Interim]	Chart 27 Newsletter 37
1 st Nov to 28 th Feb	[Winter Schedules]	Chart 28 Newsletter 38
1 st Mar to 30 th Apr	[Interim]	Chart 29 Newsletter 39 – this issue

Thanks Derek, now onto the rest of the Slavic Stations and logs.

S06 [IA] See end of this Newsletter for the updated "S06 Regular skeds - September

RNGB send his comment and January Log with analysis:

S06 (slow) continues as predicted with its monthly messages, repeated each week.

No sign of S06 (fast) on Saturdays at 1930 despite a thorough search in the low frequencies. Maybe it's finished?

The regular Saturday 1600 sked has changed ID to 754 and has been using 3887 kHz

The Weds 1800 has been found on 3610 kHz with a new ID of 269. I wonder if this sked was using same frequencies in Nov/Dec? It is right in amongst the amateur traffic.

Mon 1st Jan	1300	8420	'831' 427 6 45423 45852 73859 97565 98902 66233
	1310	10635	'831' repeat
	1600	7436	'176' 235 8 5503 18857 08847 44595 55893 34548 74508 63553
	1610	6668	'176' repeat
Tues 2nd	0800	10265	'352' 496 7 41145 48556 88276 34494 57741 55492 64976
	0810	9135	'352' repeat
	0800	5810	'418' 256 7 47349 40597 59257 43668 71562 15440 27425
	0810	7440	'418' repeat
	1630	6830	'516' 982 70 74760 70732 etc
	1730	5450	'516' repeat
	1800	5625	'624' 537 8 77912 84386 41157 35151 97749 68201 75515 88177
	1810	6605	'624' repeat
Weds 3rd	0820	6880	'471' 502 6 12367 57516 80921 46378 58901 66381
	0830	7840	'471' repeat
	0830	7335	'745' 296 8 53617 69008 11730 29745 66901 23490 90217 49876
	0840	11830	'745' repeat
	0840	9260	'328' 916 5 90801 56619 34561 12456 98044
	0850	11415	'328' repeat
	1800	3610	'269' 00000
	1900	8530	'371' 429 5 75583 56234 09867 12387 43256
	1910	7520	'371' repeat
Thurs 4th	1000	8535	'895' 426 7 41745 53234 34141 45288 12658 31372 49138
	1010	10480	'895' repeat
	1610	14615	'425' 937 6 99428 59421 57634 60574 44171 27753
Fri 5th	0930	11780	'516' 247 8 42287 12021 69758 21970 09045 10542 55353 93469
	0940	12570	'516' repeat
Mon 8th	2115	6860	'368' 00000
	2215	5210	'368' 00000
Tues 9th	0700	5250	'374' 219 5 06759 58474 71428 46855 05845
	0715	6320	'374' repeat
	1400	9190	'493' 00000
	1500	7650	'493' 00000
	1500	5070	'537' 264 8 66626 40517 44593 95803 72515 30077 26722 74109
	1510	6337	'537' repeat
	1630	6830	'516' 439 72 22174 00201 56354 etc
	1730	5450	'516' repeat
Weds 10th	1800	3610	'269' 00000
Fri 12th	0710	8215	'196' 238 7 06145 86245 82555 56445 51765 51792 36142
Sat 20th	1600	3887	'754' 00000
Tues 23rd	1400	9190	'493' 00000
	1500	7650	'493' 00000
	1630	6830	'516' 423 61 36745 65235 61102 56354 etc
	1730	5450	'516' repeat
Weds 24th	1800	3610	'269' 00000
Tues 30th	1400	9190	'493' 00000
Weds 31st	1800	3610	'269' 00000

S06c

Weds 24th 1518 10181 in progress '17009' repeated, no ending.
This transmission was interesting, as after the ending of the Russian Man,
part of a live broadcast of E06 was heard before the transmitter came off line.
(Just 3 figures, '268' which was first part of group 26880 from E06 ID 192)

Messages of all known S06 (slow) IDs have been copied this month. Most of which consist of 5 groups, and the maximum number heard was 8 groups. All still spoken very clearly with the YL.

I haven't heard any S06 activity this month on Saturdays.

ID 918 (which popped up on the first and second Tuesdays this month) hasn't been heard for quite a while.

In the past, other IDs have been heard at 1800 on the first Tuesday of the month, besides the regular S06(slow) sked at that time.

ID 480 is a strange one. I have never found a repeat slot for it, and each time it appears it is a different message. The times of day can vary also, although it likes early morning and mid-day, especially Mondays and Wednesdays. [Thanks RNGB]

February log:-

Thurs 1st Feb	1000	8535	'895' 416 7 75990 58047 25335 37496 69587 33170 33440
	1010	10480	'895' repeat
Fri 2nd	0930	11780	'516' 284 7 86798 36582 41584 62465 34758 99208 71572
	0940	12570	'516' repeat

Tues 6th	0800	5810	'418' 259 7 58365 18554 83355 51255 16907 88558 35510
	0810	7440	'418' repeat
	0800	10265	'352' 481 7 68357 46207 32451 68446 22495 69465 55365
	0810	9135	'352' repeat
Weds 7th	0820	6880	'471' 259 8 01805 52425 35451 06578 20905 94258 44295 29751
	0830	7840	'471' repeat
	0830	7335	'745' 893 6 51535 46675 76315 03174 97553 64740
	0840	11830	'745' repeat
	0840	9260	'328' 579 6 47787 61236 85733 85271 52595 10535
	0850	11415	'328' repeat
	1230	4580	'967' 241 5 89707 56483 79214 78563 8?703
	1240	6420	'967' repeat
	1900	8530	'371' 284 5 87344 89086 44521 88531 98670
	1910	7520	'371' repeat
Thurs 8th	1230	7865	'314' 298 5 78550 22752 35351 42454 01253
	1240	5310	'314' repeat
Fri 9th	0710	8215	'196' 243 5 62354 16151 07230 84918 90040
Mon 12th	1600	7436	'176' 289 5 85954 11267 57165 42565 27444
	1610	6668	'176' repeat
	2115	6780	'702' 00000 (OM, fast zeroes)
	2215	5190	'702' 00000
Tues 13th	0700	5250	'374' 296 5 23762 54574 64306 98954 69488
	0715	6320	'374' repeat
Tues 13th	1400	11420	'493' 00000 (OM, fast zeroes)
	1500	9260	'493' 00000
	1500	5070	'537' 246 8 53301 58814 76087 44925 88835 75653 56094 64641
	1510	6337	'537' repeat
	1630	6910	'497' 528 63 25362 07741 etc (NO 8s or 9s)
	1730	5380	'497' repeat
	1800	5625	'624' 519 7 28108 77459 87444 43816 42827 14001 06056
	1810	6605	'624' repeat
	1800	5740	'918' 00000 (OM, fast zeroes)
Thurs 15th	1610	9950	'425' 813 6 55915 53579 12301 54724 84827 25142
Tues 20th	1400	11420	'493' 586 131 16814 75479 12156 etc
	1500	9260	'493' repeat
	1630	6910	'497' 603 71 41472 23574 00757 etc (NO 8s or 9s)
	1730	5380	'497' repeat
Weds 21st	0700	12365	'729' 436 8 69556 54032 83447 45847 26352 24565 13569 82984
	0710	14280	'729' repeat
	1300	8130	'480' 703 45 26968 41395 etc
	1800	3595	'269' 00000 (OM, fast zeroes)
Thurs 22nd	0900	9750	'167' 238 5 55975 15441 58024 27454 41596
	0910	10580	'167' repeat
Fri 23rd	0600	5460	'934' 276 5 73128 54833 89585 51453 13388
Mon 26th	0930	9225	'480' 428 40 58515 79072 08746 etc
	2215	5190	'702' 815 93 50394 78898 91240 etc
Tues 27th	1630	6910	'497' 123 65 04570 33555 04303 73614 etc (NO 8s or 9s)
Weds 28th	0930	9225	'480' 816 40 34415 80223 55958 etc
	1300	8130	'480' 096 41 32978 05018 10643 92405 etc
	1800	3605	'269' 00000

Peter's analysis, log and content throws even more light on the complicated S06 schedules:

The S06 Russian Man and his female companion have survived into 2007 with the UK evening schedules noted last year still around, although I lost contact with the Saturday 1600z or sometimes 1605z Russian Man during the winter months, my last logging being on 25-Oct-06 on 5,468 KHz. However, I see RRGB found it in December on 3,887 KHz. I must say, I would not have expected it to be on such a low frequency, a few minutes after sunset in the UK in December, and my searches were all confined to a minimum frequency limit of around 4,000 KHz which just goes to show you can't rule out any part of the spectrum when looking for number stations.

Second + Fourth Mondays in the Month Schedule:-

25-Dec-06:- 2115 UTC, 6,800 KHz, the fourth Monday in December is Christmas Day, "210 210 210 00000", repeat sending 2215 UTC, 5,160 KHz, as heard on the second Monday in December, the 11th.

8-Jan-07:- 2115 UTC, 6,860 KHz, "368 368 368 00000", S9 signal, lower sideband well suppressed. Same frequency used in January last year, carrier was up this evening at 2056z.

2215 UTC, 5,210 KHz, second sending, also same as Jan-'06, very strong, S9+ signal.

22-Jan-07 the fourth Monday in the month, 2115 UTC, 6,860 KHz and 2215 UTC, 5,210 KHz, "368 368 368 00000". Both sendings much weaker signals than when heard on the 8th, S5 to S6 at best.

12-Feb-07:- 2115 UTC, 6,780 KHz, "702 702 702 00000", same frequency as in February last year. Carrier was up when checked at 2055z, tone at 2103z and a single spoken "Syem noll dva" just after 2105z.

2215 UTC, 5,190 KHz, second sending, also same frequency as in Feb. '06.

Tuesday 1630 + 1730 UTC Schedule:-

26-Dec-06:- 1630 UTC, 6,860 KHz, call "847", DK/GC "153 153 62 62", strength up to S7 with deep QSB.

1730 UTC, 5,270 KHz, second sending, weak signal.

2-Jan-07:- 1630 UTC, 6,830 KHz, change of frequencies for January; call "516", DK/GC "982 982 70 70", S9 signal with the lower sideband well suppressed.

1730 UTC, 5,450 KHz, second sending of "516" and "982 982 70 70", this frequency was used in January last year and sits on top of "RAF VOLMET".

3-Jan-07, Wednesday:- 1738 UTC, 5,450 KHz, the next day repeat of yesterday's full message in progress.

9-Jan-07:- 1637 UTC, 6,830 KHz, first sending in progress.

1730 UTC, 5,450 KHz, second sending, calling "516", DK/GC "439 439 72 72", RAF VOLMET heard underneath.

16-Jan-07:- 1730 UTC, 5,440 KHz, call "516", DK/GC "234 234 78 78", S9+ signal and 10KHz lower than previous loggings so now clear of RAF VOLMET.

30-Jan-07:- 1730 UTC, 5,457 KHz, another slight shift in frequency, "516" and "347 347 80 80", S9 signal.

6-Feb-07:- 1737 UTC, 5,380 KHz, second sending, transmission in progress; same frequency was used for this one in February last year.

7-Feb-07, Wednesday:- 1630 UTC, 6,910 KHz, first sending of the "Next day repeat", calling "497", DK/GC "138 138 62 62", same frequency as in Feb.-'06

1730 UTC, 5,380 KHz, second sending of "497" and "138 138 62 62".

A Tuesday 1800 UTC S06 OM Voice:-

6-Feb-07:- 1802 UTC, 5,740 KHz, found in progress with "918 918 918 00000", S9 signal, lower sideband well suppressed. Stopped 1804 and 20 seconds UTC approx. Is there a regular schedule running here? Couldn't find a repeat sending at 1900z on a lower frequency.

13-Feb-07:- 1800 UTC, 5,740 KHz, looks like a regular, checked for a possible carrier-and found it was up - a couple of minutes earlier, started about 5 seconds before the hour, "918 918 918 00000".

Usual S06 voice but delivery seemed a bit slower than usual. On at the same time as the S06 YL voice on 5,625 KHz.

This did seem to be a weekly schedule but I could find no sign of it on the following Tuesday, 20-Feb. There was a very weak signal of some kind on 5,740 but I think it was just a distant broadcast station.

S06, Female Voice:-

Wednesday 1900 + 1910 UTC Schedule:-

3-Jan-07:- 1900 UTC, 8,530 KHz, call "371", DK/GC "429 429 5 5", this version of S06 always has a group count in single figures; 5Fs today were "75583 56234 09867 12387 43256". Ended just after 1905z.

1910 UTC, 7,520 KHz, second sending, same frequencies as in December.

10-Jan-07:- 1900 UTC, 8,530 KHz and 1910 UTC, 7,520 KHz, same 5Fs as last week.

14-Feb-07:- 1900 UTC, 8,530 KHz and 1910 UTC, 7,520 KHz, no change of frequencies, very weak signals on both sendings, "371" and DK/GC "284 284 5 5" (?), difficult to hear.

Tuesday 1800 + 1810 UTC Schedule:-

26-Dec-06:- 1800 UTC, 5,625 KHz, calling "624", DK/GC "539 539 7 7", same as on previous Tuesdays in December.

1810 UTC, 6,605 KHz, second sending, signal strength up to S8, much stronger than when heard earlier in this month.

2-Jan-07:- 1800 UTC, 5,625 KHz, call "624", DK/GC "537 537 8 8".

1811 UTC, 6,605 KHz, started late, second sending, frequencies as in December.

16-Jan-07:- 1800 UTC, 5,625 KHz, "624" and "537 537 8 8".

6-Feb-07:- 1810 UTC, 6,605 KHz, second sending, call "624", DK/GC "519 519 7 7".

13-Feb-07:- 1800 UTC, 5,625 KHz, "624" and "519 519 7 7", good signal.

1810 UTC, 6,605 KHz, second sending, peaking S9+ at times. [Txn PoSW]!

S10d [IXA]

Splendid analysis from PoSW:

The S10d Czech YL continues with the routine which was first observed at the start of November 2006, i.e. a call-up triplet of anything other than the "555" which was the norm for years, and only one of an expected // pair of frequencies used. Seasonal changes of frequencies expected during the first week of March, see Slavic Desk charts from last year for details. All transmissions are in upper sideband suppressed carrier mode which has been the case since late April last year, the "with carrier" transmissions having ended around that time. Schedules logged in February 2007 have generally remained the same since the seasonal changes of November 2006 and include the following:-

Saturday, 1520 UTC:- heard on either 9,985 KHz, a strange choice perhaps since it is usually clobbered by broadcasters situated as it is at the top end of the 31 metre band, or more rarely 8,175 KHz, a much clearer frequency, as was the case on the 2nd, 23rd and 30th December-06 and 27-Jan-07.

Saturday + Thursday 2130 UTC:- 4,446 or 5,904 KHz used in the winter months, 5,904 another unfortunate choice, like 9,985 this frequency is also located inside a broadcast band; if nothing heard on 4,446 at 2130z on a Thursday or Saturday then it is sometimes possible - just - to catch a few seconds of the Czech YL under the S9++ broadcaster, such was the case on 4-Jan-07 (call "777") and 1-Feb ("222"). 4,446 KHz generally much better and was an exceptionally strong signal on Thursday 18-Jan ("111"), Thursday 25-Jan ("999") and Saturday 27-Jan ("333"). On Thursday 15-Feb was heard on 4,446 with an S9+ signal and "999" and on Saturday 17-Feb was heard on 4,446 again, also S9+, but with call-up "666". First time I have heard this triplet, I think, "Six hundred threescore and six - The Number of the Beast"!

Sunday + Tuesday 2050 UTC:- 5,272 or 5,904 KHz, that frequency inside the 49 metre band again, always difficult copy. 5,272 much better reception even if it is a weak signal. Heard on Sunday 17-Dec-06, call "777", Tuesday 2-Jan-07 ("333"), Sunday 21-Jan ("222"), Sunday 4-Feb ("444") and Sunday 11-Feb ("222") when the signal was an uncommonly strong S9+. When nothing can be heard on 5,272 it is likely be the case that 5,904 is being used, this frequency confirmed as being active and audible enough to make out the call-up triplet on very few occasions, one being on Sunday 28-Jan when S10d rose out of the broadcast crud for a few seconds just long enough to hear "333".

Monday + Tuesday 1740 UTC:- 5,028 or 7,605 KHz, always has two separate messages. This one was heard on the Monday of Christmas Day on 7,605 - like most number stations no concessions to the Season of Goodwill - with an S9 signal and call-up triplet "333". On the following day was much weaker and with call "888". Last heard on Monday 19-Feb on 5,028 KHz with an S9 signal and call triplet "999".

Alternate Tuesday + Wednesday 1855 UTC:- 7,745 or 9,985 KHz, although I have only heard the higher frequency of the two in recent weeks which means difficult copy thanks to surrounding broadcast stations. On Tuesday 19-Dec-06 appeared not to be on either of the expected frequencies but emerged out of the general mayhem on 9,985 for a few seconds after 1900z just long enough for a positive identification before sinking back under again. On Wednesday 3-Jan-07 heard again on 9,985 just for a few seconds during the call-up, able to make out "222". On Tuesday 16-Jan was heard on 9,985 with a slightly better signal than usual with "333". Still on 9,985 when heard on Tuesday 6-Feb with "222".

Alternate Wednesday 1820 UTC, one of those unusual start times which makes it easy to forget. 6,945 or 5,904 KHz, heard on 6,945 10-Jan-07 with a weak signal and calling up with "888". Had been heard on this frequency on 13-Dec-06 with, almost unbelievably these days, "555". Last heard 14-Feb-07 on 6,945 KHz with "111". [Tnx PoSW]

AF's January Log:

2007-01-01	Mon	2020	0000	3564	s10d	
2007-01-08	Mon	2025	0000	3564	s10d	
2007-01-11	Thu	2137	0000	4446	s10d	in progress
2007-01-18	Thu	2130	0000	4446	s10d	
2007-01-25	Thu	2020	0000	3564	s10d	"333 565 35 ..."
2007-01-29	Mon	2020	0000	3564	s10d	

S11a [III]

A reminder from Poacher, sent to E2k : every Wednesday: 0900 UTC - 9610 kHz
 every Thursday: 1030 UTC - 9950 kHz
 and logs:

4009kHz 1911z	17/01 in progress	PLondon		WED
9610kHz 0900z	03/01 (214/00) FN	& MalcF		WED
0900z	14/02[214/00] S8 good. mndbs			WED
0900z	21/02[211/33 77777 77777 (31 groups followed)]	RNGB		WED

S11b [III]

Weds 10th 0900 9610 217/37 77777 77777 21104 30872 etc RNGB

S14

4397kHz 1950z 07/02 (OM RUS counting 0 to 9, rptd, no msg, ends 2015z) FN WED

S17c [IXC]

Either/or 5946 and/or 9166kHz 1250z Tnx to AF, DoK, FS, FredNL, H-FD and PLondon for these results:

January

01/01 53024; 02/01 60028; 03/01 68023; 05/01 67034; 06/01 58030; 07/01 64027; 08/01 65027; 09/01 53024; 10/01 67027; 11/01 63027; 12/01 60025; 13/01 58038; 14/01 49025; 15/01 75022; 16/01 57024; 17/01 58026; 18/01 58029; 19/01 67029; 20/01 66028; 21/01 60030; 22/01 48020; 23/01 56027; 24/01 54027; 25/01 48040; 26/01 51026; 27/01 64028; 28/01 59028; 29/01 55028; 30/01 51026; 31/01 53026;

February: During February the usual 555 triplet was replaced others, as seen on M10 and S10d.

01/02 59026; 02/02 59026; 03/02 59046; 05/02 57030; 07/02 54026; 10/02 61027; 11/02 68027; 12/02 62027; 13/02 55027; 14/02 44027; 16/02 61027; 17/02 64027; 18/02 59026; 19/02 59036; 22/02 79028; 23/02 67026; 24/02 57028; 25/02 59026; 26/02 57040; 27/02 59026; 28/02 57028;

S21 [XIV]

Jan:

Thurs 11th	1842	3823 //3323	'323' 732 33 – 28619 etc	RNGB
Tues 30th	1842	3323	'323' repeat	RNGB

Feb:

3823kHz 1842z	06/02[323] Manolis	TUES
---------------	--------------------	------

NOTE THE COMMENT FROM RNGB:

Tues 27th 1842 3323 '323' 479 34 73795 59663 74800 etc (same msg as M45)

S25[IA]: Nil Reports

V02a [XVIII] [V02a Charts at the end of this Newsletter – tnx Mark and contributors.](#)

January:

3292kHz 0200z	09/01[A 89834 55055 76695 (YL/SS)]	TUE
3245kHz 1100z	12/01[AM, A ----- 88254 (YL/SS.In progress, missed first two callups)]	FRI
4028kHz 0200z	06/01[A ----- 17041 10283 (Already in progress. YL/SS)] 0303z06/01[A 21433 77902 15313 (YL/SS)] from M08a tx ID 68961 26742 02751 QSY 10217kHz	SAT

4035kHz 1200z 1000z	12/01[Too weak for copy. YL/SS. Repeat of 1100z on 3245m] 20/01 (Too weak for copy.)	FRI SAT
4507kHz 1100z	13/01[A 14011 14364 99763 (YL/SS. This transmission bleeding over on 10345m-not harmonic.)]	SAT
5947kHz 0900z 0900z	09/01[Sked should be on 9040m carrier up, but no audio. Two OM talking in background, too garbled, not sure of language] 18/01[A 18793 70023 29023 (YL/SS. On wrong freq. Should be on 9040m - ends 0905z)]	THUR
6855kHz 2100z 2100z 2100z 2100z 2100z 2100z 2100z 2100z 2100z 2100z 2100z 2100z	02/01[A 91843 54683 21093 (YL/SS)] 04/01[A 39112 87272 08072 (YL/SS)] 05/01[A 39113 87273 08073 (YL/SS)] 06/01[A 39114 87274 08074 (YL/SS.Repeat of 2000z on 7887m)] 08/01[AM carrier up on time, but no audio present by 2105z] 09/01(AM carrier up, but no audio at 2105z) 13/01[A 26793 59483 52663 (YL/SS. Repeat of 2000z on 7887m)] 16/01[A 45552 56402 79022 (YL/SS.)] 17/01[A 45553 56403 79023 (YL/SS)] 20/01[A 98943 57883 29343 (YL/SS)] 24/01[A 61141 57191 74331 (YL/SS.Mixed with M8a on 6932m)] 25/01[AM, A 61142 57192 74332 (YL/SS)]	TUE THUR FRI SAT MON TUE SAT TUE WED SAT WED THUR
6867kHz 1600z	20/01[A 96.831 65... (YL/SS. Too weak for reliable copy)]	SAT
7555kHz 0800z 0800z 0800z 0800z 0800z	12/01[A 91762 19754 05034 (YL/SS.Repeat of 0700z on 8136m)] 17/01[A 18792 30762 50082 (YL/SS. Mixed with M8a on 8430m)] 19/01[A 53841 91891 31901 (YL/SS. Repeat of 0700z on 8136m)] 24/01[A 94743 34783 08243 (YL/SS)] 26/01[A 35872 64132 22892 (YL/SS)]	FRI WED FRI WED FRI
7580kHz 0800z 0800z 0800z 0800z 0800z 0800z 0800z 0800z	02/01[A 97593 07292 05112 (YL/SS)] 06/01[A 20514 07296 05116 (YL/SS)] 11/01[A 91761 19753 05033 (YL/SS)] 16/01M, A 18791 30761 50081 (YL/SS) 18/01[A 18793 30763 50083 (YL/SS)] 20/01[A 53842 91892 31902 (YL/SS. Repeat of 0700z on 8186m)] 23/01[A 94742 34782 08242 (YL/SS)] 25/01[A 35871 64131 22891 (YL/SS)]	TUE SAT THUR TUE THUR SAT TUE THUR
7887kHz 2000z 2000z 2000z 2000z 2000z	02/01[A 91843 54683 21093 (YL/SS)] 06/01[A 39114 87274 08074 (YL/SS)] 13/01[A 26793 59483 52663 (YL/SS)] 16/01[A 45552 56402 79022 (YL/SS)] 27/01[A 69351 62041 63631 (YL/SS)]	TUE SAT SAT TUE SAT
7975kHz 1600z 1600z 1600z 1600z	06/01[A 79834 60354 58234 (YL/SS)] 20/01[A 35413 72133 24433 (YL/SS)] 21/01[A 13391 27361 35541 (YL/SS)] 27/01[A ----- 00881 (YL/SS. Too weak for good copy)]	SAT SAT SUN SAT
8010kHz 1700z 1700z 1700z	13/01[A 05403 99123 24823 (YL/SS)] 20/01[A 35413 72133 24433 (YL/SS. Repeat of 1600z on 7975m)] 27/01[A 51561 02761 00881 (YL/SS.Repeat of 1600z on 7975m. Weak signal here.)]	SAT SAT SAT
8136kHz 0700z 0700z	12/01[A 91762 19754 05034 (YL/SS)] 19/01[A 53841 91891 31901 (YL/SS)]	FRI FRI
8186kHz 0700z	13/01[A 05681 93671 98391 (YL/SS.False start.)]	SAT
8630kHz 0900z	10/01[A 22801 85371 38742 (YL/SS.New YL/SS voice here)]	WED
9040kHz 0900z 0900z 0900z 0900z 0900z 0900z 0900z 0900z 0900z 0900z 0900z 0900z	04/01[A 55340 87720 16267 (YL/SS.New voice here)] 08/01[A 20516 41778 22248 (YL/SS)] 11/01[A 91761 41779 22249 (YL/SS)] 12/01[A 91762 41779 22249 (YL/SS)] 13/01[A 05681 96611 24981 (YL/SS)] 15/01[AM carrier up on time, but no audio present by 0906z)] 17/01[A 18792 70022 29022 (YL/SS. Mixed with M8a on 8630m)] 18/01[A ----- 70023 29023 (YL/SS. Moves here from wrong freq of 5947m at 0905m)] 18/01[A 18793 70023 29023] 20/01[A 53842 87922 65252 (YL/SS)] 21/01[A 53843 87923 65253 (YL/SS)]	THUR MON THUR FRI SAT MON WED THUR THUR SAT SUN
9240kHz 1000z 1000z 0900z 1000z 1000z	11/01[A ----- 41779 22249 (YL/SS.Repeat of 0900z on 9040m. Came up at 1004z in first message.)] 12/01[A 91762 41779 22249 (YL/SS.Repeat of 0900z on 9040m)] 15/01[AM carrier up on time, but no audio present by 0906z)] 20/01[A 53842 87922 65252 (YL/SS. Repeat of 0900z on 9040m)] 21/01[A 53843 87923 65253 (YL/SS. Repeat of 0900z on 9040m)]	THURS FRI MON SAT SUN

Note 04/01: The new Cuban Lady voice appeared this morning at 0900z. I had to leave for work, so do not know if she appeared any other times today.

February

3292kHz 0400z	03/02[A 07362 34453 28013 (YL/SS)]	SAT	
1100z	05/02[A 35813 93721 29781 (YL/SS)]	MON	
3360kHz 1100z	14/02[83881 97862 93552 (YL/SS,old voice)]	WED	
1100z	21/02[A 41.21 626.1 05272 (Very weak signal. Questionable copy)]	WED	
4035kHz 1000z	03/02[A 53501 08253 31122 (YL/SS)]	SAT	
1200z	14/02[A 83881 97862 93552 (YL/SS,old voice. Repeat of 1100z on 3360m)]	WED	
5759kHz 0800z	11/02[(YL/SS new voice here. Stops at about 0812z and silent the rest of hour. Just open carrier the whole hour.)]	SUN	
0900z	20/02[A 61211 31413 35513 (YL/SS. Also parallel on 9040m now. Should be M8a sked here in MCW mode.)]	TUES	
6855kHz 2100z	01/02[A 05853 98163 17413 (YL/SS)]	THUR	
2100z	06/02[A 58982 96692 02332 (YL/SS.Mixed with M8a on 7974m. Came up late at 2104z)]		TUES
2100z	07/02[A 58983 96693 02333 (YL/SS.Repeat of 2000z on 7887m)]	WED	
2100z	12/02[A 49902 47122 53572 (YL/SS.Repeat of 2000z on 7887m)]	MON	
2100z	15/02[A 56482 34132 08422 (YL/SS)]	THUR	
2100z	17/02[A 40251 53641 10331 (YL/SS.Repeat of 2000z on 7887m)]	SAT	
2100z	18/02[252 53642 10332 (YL/SS. Repeat of 2000z on 7887m)]	SUN	
2100z	20/02[A 68411 90831 44061 (YL/SS)]	TUES	
2100z	23/02[AM, A ----- 11435 (YL/SS.New format. Already in progress.)]	FRI	
7555kHz 0800z	05/02[A 78621 90033 31163 (YL/SS)]	MON	
0800z	07/02[A 78623 21402 99232 (YL/SS.Repeat of 0700z on 8136m)]	WED	
0800z	09/02[A 37052 88251 67371 (YL/SS)]	FRI	
0800z	12/02[A 36722 46191 70001 (YL/SS)]	MON	
0800z	14/02[A 31541 04152 70003 (YL/SS,old voice)]	WED	
0800z	16/02[A 31543 00412 45772 (YL/SS.Repeat of 0700z on 8136m)]	FRI	
0800z	19/02[A 38553 12812 24202 (YL/SS)]	MON	
0800z	21/02[A 61212 16421 99321 (YL/SS.Repeat of 0700z on 8136m)]	WED	
0800z	23/02[A ----- 41381 35353 (YL/SS. New format. Repeat of 0700z on 8136m. Late start.)]	FRI	
7580kHz 0800z	01/02[A 89113 59882 54262 (YL/SS)]	THUR	
0800z	06/02[A 78622 21401 99231 (YL/SS)]	TUES	
0800z	08/02[A 37051 21403 99233 (YL/SS)]	THUR	
0800z	13/02[A 25513 04151 70002 (YL/SS)]	TUES	
0800z	15/02[A 31542 00411 45771 (YL/SS)]	THUR	
0800z	20/02[A 61211 12813 24203 (YL/SS)]	TUES	
0800z	22/02[A 61213 85071 99322 (YL/SS)]	THUR	
7681kHz 0800z	11/02[A 76291 74528 17088 (YL/SS new voice. Changed to old voice about 0812z. Repeat of 0700z on 8097m)]	SUN	
0812z	11/02[ID ----- 88253 67373 (YL/SS old voice)]	SUN	
0800z	18/02[552 12811 24201 (YL/SS. Repeat of 0700z on 8097m)]	SUN	
0900z	18/02[552 37411 35511 (YL/SS. This should have been on 9040m. Op forgot to change freq this hour.)]	SUN	
7887kHz 2000z	05/02[A 58981 96691 02331 (YL/SS)]	MON	
2000z	07/02[A 58983 96693 02333 (YL/SS)]	WED	
2000z	12/02[A 49902 47122 53572 (YL/SS)]	MON	
2000z	17/02[A 40251 53641 10331 (YL/SS)]	SAT	
2000z	18/02[252 53642 10332 (YL/SS)]	SUN	
2000z	21/02[A 68412 90832 44062 (YL/SS)7m)]	WED	
7975kHz 1600z	03/02[A 31952 27112 88662 (YL/SS)]	SAT	
8010kHz 1700z	03/02[A 31952 27112 88662 (YL/SS.Repeat of 1600z on 7975m)]	SAT	
8097kHz 0700z	11/02(Came up late, already in progress when found. New YL/SS voice used here)	SUN	
0700z	18/02[552 12811 24201 (YL/SS)]	SUN	
8136kHz 0700z	07/02[A 78623 21402 99232 (YL/SS)]	WED	
0700z	14/02[A 35711 73750 17815 (YL/SS,new voice)]	WED	
0700z	16/02[A 31543 00412 45772 (YL/SS)]	FRI	
0700z	16/02[A 31543 00412 45772 (YL/SS)]	FRI	
0700z	23/02[A ----- 35353 (YL/SS.New format. In progress.)]	FRI	
8186kHz 0700z	17/02[A ----- 45773 (YL/SS)]	SAT	
0700z	21/02[A 61212 16421 99321 (YL/SS)]	WED	

9040kHz	0900z	08/02[A 37051 49493 07343 (YL/SS)]	THUR
	0900z	09/02 (No audio, just carrier and dropped at 0910z	FRI
	0900z	11/02[A 36721 04903 40253 (YL/SS.Mixed with M8a on 5759m)]	SUN
	0900z	13/02[A 36723 36982 25422 (YL/SS)]	TUES
	0900z	14/02[A 35712 71271 12044 (YL/SS,new voice)]	WED
	0900z	15/02[A 31542 68671 65411 (YL/SS)]	THUR
	0900z	19/02[(Already in progress. YL/SS)]	MON
	0900z	20/02[A 61211 31413 35513 (YL/SS.Also parallel on 5759m now.)]	TUES
	0900z	21/02[A 61212 78951 27111 (YL/SS)]	WED
	0900z	22/02[A 61213 78952 29211 (YL/SS. Plus M8a ID 10353 44271 32..., plus Spanish music! Same on 5759m now!]	Oops! THUR
	0900z	23/02[A 78371 77416 03168 (YL/SS.New format)]	FRI

9240kHz	1000z	03/02[A 99362 54761 61631 (YL/SS)]	SAT
	1000z	04/02[A 99363 54762 61632 (YL/SS)]	SUN
	1000z	05/02[A 78621 54763 61633 (YL/SS. Repeat of 0900z on 9040m)]	MON
	1000z	08/02[A 37051 49493 07343 (YL/SS.Repeat of 0900z on 9040m)]	THUR
	1000z	09/02[A 37052 04901 40251 (YL/SS.Repeat of 0900z on 9040m)]	FRI
	1000z	11/02[A 36721 04903 40253 (YL/SS.Mixed with M8a on 5800m, Repeat of 0900z on 9040m)]	SUN
	1000z	14/02[A 31541 36983 25423 (YL/SS,old voice)]	WED
	1000z	18/02[552 37411 35511 (YL/SS.Repeat of 0900z on 7681m which should have been on 9040m)]	SUN
	1000z	21/02[A 61212 78951 27111 (YL/SS.Repeat of 0900z on 9040m)]	WED

16178kHz 1600z 18/02[312 57201 72621 (YL/SS. Another V2a crossed with this broadcast now. Believe it to be the 6867m sked.)]

17436kHz 1700z 18/02[312 57201 72621 (YL/SS.Repeat of 1600z on 16178m. No crossed signals this hour.)]

Notes: 11/02Freq changes taking place with some of the MCW skeds in the early morning. New YL/SS voice appears again today. Also, new M8a on 9062m shows up at 0700z.

Note 21/02: I noticed this morning that the Cubans used the same first addressee in both a V2a and an M8a sked. I have never seen them do this before.

Unfortunately, after the fact, I got to wondering if the messages were the same for both voice and morse. Did you happen to get the first few groups of the messages involved?

The skeds were:

0700 8136m A 61212 16421 99321 V2a
0700 9153m ID 61212 55293 74513 M8a

0800 7555m A 61212 16421 99321 V2a
0800 9063m ID 61212 55293 74513 M8a

0900 9040m A 61212 78951 27111 V2a
1000 9240m A 61212 78951 27111 V2a

As you can see, 61212 was a very popular addressee this morning. If you happened to copy any of the messages, please relay whether voice and morse sent the same message.

ANY PERSON WITH THIS REQUIRED INFO PLEASE EMAIL MARK DIRECT.

Notes: 22/23 Feb: Appeared to use the new voice and morse formats at the end of February 22 and all February 23 broadcast days. Also, note the major foul-up on February 22 at 0900z. The Cubans were sending out morse, voice and music on two different frequencies. They would stop and go, as if they were trying to correct it. I had to leave for work, so do not know if they ever resolved the problem or not!

Monitoring the 1600z V2a sked on 16178m was interesting today (Saturday). On the hour the sked began with M8a sending ANDUW RIGMT or 12345 67890 for about 3 minutes. Then the sked changed to V2a and the new YL/SS repeatedly saying 3. This finally ceased at about 1620z. Then all went silent.

At 1700z on 17436m a new format V2a sked came up with the callup of: A 40148 84260 24741.

It appears that the 1600z sked may have been some sort of test or maybe a filler because the crypto-clerk hadn't finished preparing the messages yet.

Also, all V2a and M8a skeds that I have heard today have been in the new voice and new morse formats.

Peter of Saffron Walden offers his analysis and excellent log for the Cuban station V02a from the British side of things:

The Spanish language YL from Cuba continues to be heard in the UK morning on the frequencies which came into use towards the end of 2006 replacing those which had been used for many years. The transmissions starting at 0700z and 0800z have often been very weak signals with difficult copy during the winter months while those starting at 0900z and 1000z - those monitored on Saturdays and Sundays, anyway - have generally been stronger. Late starts and early starts are commonplace although the distorted audio and background buzz which often used to be a feature of many V02a transmissions seems to have been cured with one or two exceptions. An alternative voice, where the YL appears to be calling out the numbers so that those at the back of the hall can hear clearly, has been heard - but only on a very few occasions.

25-Dec-06, Monday:- 1017 UTC, 9,240 KHz, intrigued to observe that the Senorita from Havana doesn't get a rest on Christmas Day; transmission in progress peaking signal strength S8 with QSB.

26-Dec-06, Tuesday:- 0804 UTC, 7,580 KHz, V02a YL heard underneath strong broadcast station, Radio Pyongyang I think, as on Saturdays. When checked again at 0820z V02a was much stronger.

0900 UTC, minus 20 seconds, an early start, 9,040 KHz:- "Atencion, 73682 63641 76381", signal strength up to S7 with the usual deep fading.

30-Dec-06, Saturday:- 0803 UTC, 7,580 KHz, a late start, call-up was still in progress when tuned in three minutes past the hour.

"Atencion, 46603 12082 50872", stronger than usual, over-riding North Korean broadcaster.

0900 UTC, 9,040 KHz, plain carrier only until after 0901z, then stated up with, "Atencion, 46603 10762 78232", signal strength S8 with very good audio.

1-Jan-07, Monday:- 1000 UTC, 9,240 KHz - my first number station of 2007! - started exactly on the hour, "97592 41771 22241", strong signal peaking S9 with good audio quality.

7-Jan-07, Sunday:- 0801 UTC, 7,681 KHz, started one minute after the hour, "Atencion, 20515 07297 05117". A weakish signal, S5 at best.

No sign of the expected Cuban YL at 0900 UTC on 9,040 KHz, not even a carrier; however, when checked again just after 0907z there she was up to S9 with good modulation; and this was the alternative voice - I have only heard it once before, on Saturday 9-December-06 - calling out the numbers loud and clear.

8-Jan-07, Monday:- 0700 UTC, 8,136 KHz, "Atencion, 20516 07298 05118" back to the standard voice, strength S8 with good audio, best reception of a 7 AM V02a for some time.

9-Jan-07, Tuesday:- 0700 UTC, 8,186 KHz, very weak signal, only just detectable, unreadable.

10-Jan-07, Wednesday:- 0700 UTC, 8,136 KHz, "Atencion, 73166 14840 31602", strength S7 with deep QSB - and the "alternative" YL voice appears again.

11-Jan-07, Thursday:- 0706 UTC, 8,186 KHz, transmission in progress, strength S7 to S8, standard voice.

13-Jan-07, Saturday:- 0759 and 30 seconds UTC, 7,580 KHz, another early start, weak signal under the carrier of the broadcast station on 7,580 which started up on the hour making V02a unreadable.

0900 UTC, 9,040 KHz, "Atencion, 05681 96611 24981 (?)", weak signal, difficult copy, local QRM from central heating spark ignition making matters worse.

14-Jan-07, Sunday:- 0900 UTC 9,040 KHz - was in call-up mode when tuned in a few seconds before the hour - "Atencion, 05682 96612 24982", signal strength S8.

1003 UTC, 9,240 KHz, plain carrier only until 1003z when voice started up straight into 5Fs without "Atencion" routine.

20-Jan-07, Saturday:- 0700 UTC 8,186 KHz, very weak signal, only just detectable.

0800 UTC - just before, 7,580 KHz, "Atencion, 53842 91892 (?)1902", (?) difficult copy due to weak signal and the on the hour start-up of Pyongyang. La Seniorita much stronger and Mr Kim's pals much weaker when checked again at 0840z; ended 0845 and 40 seconds UTC with 3 x "Finale".

0900 UTC, 9,040 KHz, "Atencion, 53842 87922 65252".

21-Jan-07, Sunday:- 0800 UTC, 7,681 KHz, "Atencion, 53843 91893 (?)1903" (?) another very weak signal, only just readable.

0900 UTC, 9,040 KHz, "Atencion, 53843 87923 65253", strength S6 with the usual up and down fading

1001 UTC - plain carrier until after 1001z - 9,240 KHz, "Atencion, 53843 87923 65253" (?), very weak signal, unusual, as a rule the later morning transmissions are stronger than the earlier ones.

27-Jan-07, Saturday:- 0800 UTC, 7,580 KHz, signal strength peaking S9 this morning, much stronger than the co-channel broadcaster, "Atencion, 05631 64133 22893".

0906 UTC, 9,040 KHz, missed the start-up, transmission in progress, strength S5 to S6.

28-Jan-07, Sunday:- 0800 UTC, 7,681 KHz, "Atencion, 05632 55751 21391".

29-Jan-07, Monday:- 0701 UTC, 8,136 KHz, must have started early, was in 5F mode when tuned in approx. 0701z.

30-Jan-07, Tuesday:- 0656 UTC, 8,186 KHz, tuned in well before the expected start up time expecting just a plain carrier but La Seniorita was in full flow with 5Fs. Paused just before 0701z then went into call-up with, "Atencion, 89111 55753 21393 (???) weak signal, difficult copy.

3-Feb-07, Saturday:- 0700 UTC, 8,186 KHz, very weak signal of some kind, unable to confirm as V02a. Somewhat stronger when checked again at 0737z, voice clearly heard. Ended with 3 x "Finale" 0745 and 30 seconds UTC approx.

0801 UTC, 7,580 KHz, did not start until approx. one minute past the hour and when it did so was much stronger than the co-channel North Korean broadcaster which had started on the hour. "Atencion, 99362 90031 31161".

0900 UTC, 9,040 KHz, very weak signal, unreadable, unable to positively confirm as V02a.

4-Feb-07, Sunday:- 0800 UTC, 7,681 KHz, "Atencion, 99363 90032 31162", each of these 5Fs one up on those heard on 7,580KHz yesterday. Signal strength S8 with a background buzz which used to be very common on V02a but has been absent for some time.

0900 UTC, 9,040 KHz, "Atencion, 99363 54762 61632", S8 with no background buzz.

1000 UTC, 9,240 KHz, "Atencion, 99363 54762 61632", as heard an hour earlier, best V02a this morning, peaking over S9 and no background buzz.

5-Feb-07, Monday:- 0711 UTC, 8,136 KHz, transmission in progress, weak signal.

6-Feb-07, Tuesday:- 0700 UTC, 8,186 KHz, very weak signal, only just detectable, unreadable.

10-Feb-07, Saturday:- 0759 and 20 seconds UTC - started well before 0800z - 7,580 KHz, "Atencion, 37053 88252 67372" good signal. As usual the Comrade in Pyongyang started up on the hour but was a much weaker signal than the Cuban YL and caused no problems.

0900 UTC, call-up in progress when tuned in just before the hour, 9,040 KHz, "Atencion, 37053 04902 40252". S9 signal with good audio.

11-Feb-07, Sunday:- 0813 UTC, 7,681 KHz, transmission in progress with QRM from an FSK signal on close frequency.

0859 and 12 seconds UTC - early start - 9,040 KHz, "Atencion, 36721 04903 40253". Peaking over S9 with good audio.

1002 UTC, 9,240 KHz, plain unmodulated carrier only until just after 1002z, then someone much have switched the audio amplifier stages on because the YL voice came on with the last few seconds of the call-up routine, the point where the first of the trio of header 5Fs is repeated before going into the first message.....".....21 36721 36721".....and proceeded as normal.

13-Feb-07, Tuesday:- 0700 UTC, 8,186 KHz, "Atencion, 25513 04151 70002", peaking strength S6, much stronger than most 7 AM V02a.

17-Feb-07, Saturday:- 0759 and 20 seconds UTC, an early start, 7,580 KHz, "Atencion, 38551 00413 45773", the 40 seconds before the hour start was useful because when Pyongyang fired up on the hour V02a became difficult copy.

Sunday:- 0800 UTC, 7,681 KHz, "Atencion, 38552 12811 24201", weak but reasonably clear with a echo effect, due multi-path propagation, no doubt.

0910 UTC, 9,040 KHz, no sign of the V02a YL when checked from 0900z until 0906z, not even an un-modulated carrier. When checked again around 0910z there was a carrier up with OM voices in Spanish, sounded like 2-way comms with lots of "Cambio, cambio", i.e. "Over, over".

The YL voice started up with 5Fs about a minute later, the OM voices on as well.

It seemed at first that the 2-way chit-chat was on the V02a signal but on switching from AM mode to USB then LSB showed that the YL was in AM with both upper and lower sidebands audible whereas the OM voices gave audio in USB mode only; so presumably this was a two-way conversation between two SSB stations, fishing boats perhaps, that happened to choose 9,040 KHz which was also being used by V02a in AM, the carrier rendering the SSB audible.
1000 UTC, 9,240 KHz, no problems here, "Atencion, 38552 37411 35511". [Txn PoSW].

V07 [IB]

Freq list vs month from AnonUK:

January	0600 10879	0620 12179	0640 13479 814
February	0600 13336	0620 14866	0640 16266 382
March	0600 14387	0620 16087	0640 17487 304
April	0600 14387	0620 16087	0640 17487 304
May	0600 14621	0620 16321	0640 17521 635
June	0600 14621	0620 16321	0640 17521 635
July	0600 13837	0620 14937	0640 16697 896
August	0600 13837	0620 14937	0640 16697 896
September	0600 13381	0620 14781	0640 16281 372
October	0600 14521	0620 15821	0640 17421 584
November	0600 12152	0620 13552	0640 14952 159
December	0600 9272	0620 10672	0640 12172 261 [Txn AnonUK]

From RNGB:

Thurs 22nd	0600	13366	'382' 000
	0620	14866	'382' 000

V13 [O]

8300 kHz 1308z 19/01 [V13 i.p. very faint, audible when digis are quiet] MG FRI

From AlbinoDragon:

V13 8300 1200-1223 20070131
V13 8300 1300 20070131
V13 8300 1200-1225 20070201 weaker than last night
V13 8300 1300 20070201 better than last hour, RTTY heard on top

All these were via an internet tuner in New Zealand.

V13 20070202, 1200 to 1225, 8300 - Noisy with voice QRM.
V13 20070202, 1300, 8300 - Better than the previous hour.
V13 20070203, 1200 to 1225, 8300 - Strong and relatively clear.
V13 20070203, 1300, 8300 - Very weak with QRM.
V13 20070205, 1200, 8300 - Under very heavy noise. Only I.S. perceptible.
V13 20070205, 1300 to 1325, 8300, Still very noisy but better.

These are more of the continued V13 campaign I've got going. Some early observations:

The 1200 log on 20070202 also had an attempt to hear V13 on 9725. There was voice QRM heard in an Oriental language. Not sure if it was Chinese or not. V13 was definitely NOT heard. More listening is needed to figure out if V13 is hiding in there or if there is simply not broadcast there.

The I.S. (flutes) is heard starting at three minutes to the top of the hour, so for a log at 1200, the I.S. actually starts at 1157. There is a combination of I.S., an initial introduction given in one voice then likely a message preamble by a second voice. The repeats at the top of the hour (1200 in this example) and then goes to the message given by the second voice. This is the pattern I've heard each time I've logged it during this campaign.

I am almost certain the I.S. used now is different than the one that can be heard on The Conet Project recording of V13. The same general theme, but the song itself does sound different to me. I'd need to hear the new version clearer before I'd say for sure.

Of course, as always, additional radios and ears are always welcome!

All but the third log were heard via an internet tuner in Wellington, New Zealand while the *third log was from an internet tuner in Nagoya, Japan*. The propagation conditions are just too poor for me to receive V13 from my QTH in Arizona. [Thanks AD]

At the end of February, Albino Dragon kindly offers his comment on V13 and his attempts to intercept.....

As has been standard operating procedure, reception for V13 has been non-existent in north America over the last two months. Despite numerous tries, I have had no luck picking up the two Chinese ladies from my QTH in the desert southwest. I did manage to find an internet tuner in New Zealand that allowed pretty frequent access and reasonably good reception whenever I tried. I used this to perform a small V13 campaign to try to get a better handle on the schedule and goings on over a span of about a week.

I made specific tries ranging from 0900 UT to 1400 UT. I managed to learn several things regarding the V13 schedule and their standard procedure.

First, the broadcast does not start at the top of the hour. At three minutes till (X:57), the interval signal with flutes starts. At the end of the I.S., the YL voice that I call the perky woman (a younger voice with a lot of enthusiasm) starts with what has been interpreted as a "station announcement" as it is known to vary from one frequency to the next but retains the same general layout. Following her, a much more sedate voice of an older woman (no surprise, I call her the old woman) comes on and broadcasts what I assume is the introduction to the message to follow.

Once her introduction is complete, the interval signal, perky woman and old woman yet are heard yet again. Following that, the old woman proceeds on into what is presumably the message for the recipient.

The message continues and ends right around 24 to 25 minutes past the hour when what I believe is the old woman voice seems to pick up some sense of urgency as the message come to an end.

I managed to make a clear recording via an internet tuner in Japan of the introduction that is a distinctly different tune than that heard on the Conet Project. Anyone interested in a copy of what I recorded, feel free to contact me via the group.

From the first of February to the 9th, I used the New Zealand tuner as well as two separate tuners in Japan to run the campaign. As these are general access tuners, there are times that gaining access is difficult or where the tuner is in use by the owner. I had to be ready to find a tuner at a moments notice if it got hijacked minutes before V13 started.

Almost like bidding on an ebay auction!

For 0900 UT, I made a single attempt via the New Zealand tuner and did not hear V13. There were three attempts at 1000 UT and a total of six attempts at 1100 UT. All but three of the 1100 attempts were also from the New Zealand tuner and the remaining three from one of the Japanese tuners. Based on this brief campaign and numerous previous attempts at these hours from my QTH in Arizona, it's likely that there are no V13 transmissions at these hours. This is by no means an exhaustive study, but may serve as a guide for those who want to try for V13 and actually have a reasonable chance at hearing it.

Without fail, an attempt (a total of six) at 1200 UT would reveal a reception of V13, three from New Zealand and three from Japan both tuners I used there. A seventh chance had so much QRM from the New Zealand QTH that V13 was impossible to hear. Four of five chances to receive at 1300 UT proved fruitful as well.

The one that was not heard followed a case where a 1200 UT transmission had faded into the background not long into the second pass on the interval signal. It is possible that there was a transmitter failure as the 1200 UT transmission started out very strong (heard from Japan) and faded out in the course of a minute or so. This one missing transmission may be a fluke in the V13 timetable.

Finally, two separate attempts were made at 1400 UT to no avail. I didn't hear anything that was conclusively a non-reception as it's possible to hear sounds in the noise when you're looking for it. I'm sure many of us have had that experience as well. Regardless, the fact that I didn't conclusively hear at these times leads me to believe that V13 may not transmit at 1400 UT, but additional work at this time slot is needed.

All of these receptions and times were on 8300 kHz, though I did make additional attempts on some of the other historical V13 frequencies. I checked all of these alternate frequencies at 1200 UT after hearing it in progress on 8300. 9725 exhibited very heavy QRM in what I assume was Japanese on all attempts from both Japan and New Zealand. This is the one frequency that is heavily interfered with here in the southwest U.S. from Spanish language transmissions from Mexico.

Attempts were made on 11430 from New Zealand with no reception at all. I suspect there may be transmissions on the historical frequencies, but the conditions, even from a location closer to the presumed transmission site, just aren't up to the task... yet.

I've been long winded this time around, so rather than listing all of the logs that are part of the campaign summarized above, I will only make note of what is another remarkable daytime log from Manolis, reported to the group:

V13 8300 kHz 1308z 19/01 [V13 i.p. very faint] MG FRIDAY

Keep listening....

Thanks Albino Dragon, excellent coverage.

And as we close for NL admin:

V13 logs – 28/02 and 01/03 from AlbinoDragon

V13 - 20070228 - 1257 - 8300 - AM

V13 - 20070301 - 1157 - 8300 - AM

V13 - 20070301 - 1257 - 8300 - AM

V21 [O]

The Babblers is a rare log indeed – thanks Westt1US:

6529kHz 1430z 04/01[USB OM Singing Numbers, two different voices heard. Nice loud signal too]. westt1us THURS

and Chris Smolinski

6529kHz 1401z 11/02 'Babbler up, weak signal in MD.' SUN

V24 [O]

Simon Deneen posted from Australia:

6215kHz 1120z 09/01 in AM YL w/ oriental language numbers 3/2 grps after musical preamble. Off at 1125z but carrier remains. I am beginning to think this is a very prolific station. Looking at my Enigma 2000 Control List (Issue 20, July 2004), a YL with 3/2 groups using 6215 kHz has the designator V24. Other frequencies are 4500, 4600, 5500, 5715, 6215, 6715 and it is active from 1200 - 1700Z H+00 & H+30 (although my previous log shows this isn't always the case). It is presumed to be South Korean. I am fairly sure this is the station I have been hearing. IW Stated in reply, "We have a few Korean speakers here so if you could get a good quality recording and I may be able to get you a translation of a short V24 message."

BPSK

With reference to the Cuban BPSK transmissions associated with M08a / V02a the designator will be :- **SK01**, (SK Zero One) effective from 00.01z, 20 Jan 07 presumably [XVIII]

POLYTONES

XPA

PoSW also paid some attention to XPA sendings and writes, “ XPA Polytone, Tuesdays and Fridays, UK evening starting at 2100 UTC;- heard in January on 5,424 + 4,968 + 4,473 KHz and in February 5,891 + 5,268 + 4,572 KHz, the same as in their respective months in 2006. Not quite so straightforward is the UK morning XPA starting at 0700 UTC, also on Tuesdays and Fridays and which uses an upper sideband suppressed carrier mode of transmission. Some of us only get the chance to hear the first, i.e. 0700z, sending which in January was logged several times on 9,356 KHz always with an S9+ signal and in February on 10,327 KHz. And just to step back in time to the last weeks of 2006 this 0700z sked ran on a Saturday in December, at least it did on Saturday 16-Dec-06. At that point in time I hadn't found the 0700z sending on a Tuesday or a Friday but on this particular Saturday I was tuning around just after 0700z when I happened across a massive signal of some kind on 8,147 KHz. It soon became apparent that this was the XPA variant which needs to be copied in USB to render it audible. Repeats were found at 0720z, 10,147 KHz and 0740z, 12,147 KHz. That this was the same frequency schedule as used on Tuesdays and Fridays was confirmed on Tuesday 19-Dec-06 when I had time to monitor all three sendings. **Latest;-** Tuesday, 20-Feb-07, was able to track all three sendings this morning, 0700z, 10,327 KHz; 0720 UTC, 11,627 KHz - not found until two minutes into the transmission after a lot of frantic tuning around because I thought the second sending could not possibly be inside the 25 metre BC band - which is exactly where it was, and 0740 UTC, 13,427 KHz.” *Tnx Peter.*

For sometime PLondon was wittering about short messages being a bad sign where XPA is concerned. After many null messages and some two message format messages it would appear the evening schedule has converted to an M12 transmission. This was seen to occur on 16/02 with the 2100z sending. Far from picking out the melodious cyclic intro to a null message the XPA'ers were rewarded with 825 825 825 1 being repeated in Morse then followed by a rapid transmission of 11 groups that ended in 0 0 0 0 0 0. A discussion was had and alternate XPA freqs searched for by the XPA'ers but without success. Not as we thought the usual cock-up but what appears to be coming a regular sending with the next scheduled sending on 20/02 repeating the M12 11 group message and followed on 23/02 by a 46 group offering. Before we condemn the evening sending to the Number Station dustbin much work will be done to prove its demise, rather than a less than subtle change of mode.

XPA'ers for the XPA/M12 experience were JoA, RNGB, DoK and PLondon.

XPA Daily Log January 2007

Thanks to FN, JoA, RNGB and others who have sent their polytone findings in.

XPA [MFSK-20 Russian Intelligence Multitone System]

1. 0700z: 9356kHz 2. 0720z: 10956kHz 3. 0740z: 12156kHz
ID 391

ID/ msg /Sn/gc / dk/ lg

02Tu	391 1 00243 00069 71656 37664	[see notes]
05Fri	391 000 06754 00001 00000 10140	[see notes]
09Tu	391 000 06754 00001 00000 10140	[see notes]
12Fri	391 1 03311 00155 07216 31713	[see notes]
16Tu	391 1 09061 00131 47006 12517	[see notes]
19Fri	391 1 00263 00203 94394 71430	[see notes]
23Tu	391 1 00836 00285 59087 46220	[see notes]
26Fri	391 1 00439 00153 95851 03225	[see notes]
30Tu	391 1 04008 00123 68206 42052	[see notes]

XPA [MFSK-20 Russian Intelligence Multitone System]

1. 2100z : 5425kHz 2. 2120z: 4968kHz 3. 2140z: 4473kHz
ID 494

ID/ msg /Sn/gc / dk/ lg

494 2 00990 00103 62841 31342 00000 00000 00704 00095 88455 15324	[see notes]
494 000 03567 00001 00000 10140	[see notes]
494 000 03567 00001 00000 10140	
UNREADABLE	[see notes]
494 000 56245 00001 00000 10140	[see notes]
494 000 04307 00001 00000 10140	[see notes]
494 000 05112 00001 00000 10140	[see notes]
494 000 02612 00001 00000 10140	[see notes]
494 000 03012 00001 00000 10140	[see notes]

January Morning Schedules.

PLondon was suffering QRM and/or desensing to his set up over Christmas; luckily the effect had gone for 02/01/07. The first sending was found halfway through the message so no ident for a clue. JoA and PLondon searched for the 0720z in concert but missed it. Strange because we had both searched the 10MHz band. The 12MHz freq was found and the full message intercepted.

On posting to Group RNGB suggested the 0720z would be 10956 [well done Richard ☺] . Signal strengths received by both PLondon and JoA on the last sending were around S9.

05/01 proved the 10956 frequency as PLondon placed directly into his work QTH receiver and heard a carrier rise briefly. Signals for all sendings were 20dBs or above, albeit for a null sending.

09/01 was a repeated message from 05/01 with excellent signal strengths reported by JoA and PLondon.

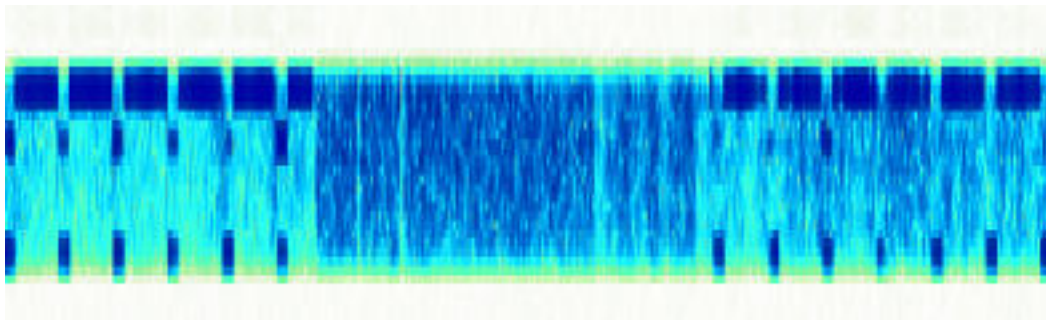
12/01 Excellent signals of 4m duration. A like quality of sending was also experienced for the 3m 46 sec sending on 16/01.

The 19/01 sendings produced three excellent messages in a transmission of 4m30s. Again on 23/01 the same quality sendings lasted 5m21s. The first 26/01 sending at 0700z was at S9 with some noise; 0720z was 40dBs and 0740z sending weighed in at S9 with excellent audio.

30/01 was excellent across the schedule; 40, 40 and 20dBs.

January Evening Schedules.

02/01/07 signals were as previously heard on these freqs in December 2007 20dBs, 30dBs and S9. XJT was also on the 2120z sending whilst there was a 15s break in sending for the 2100z sending [2100:59 to 2101:14].

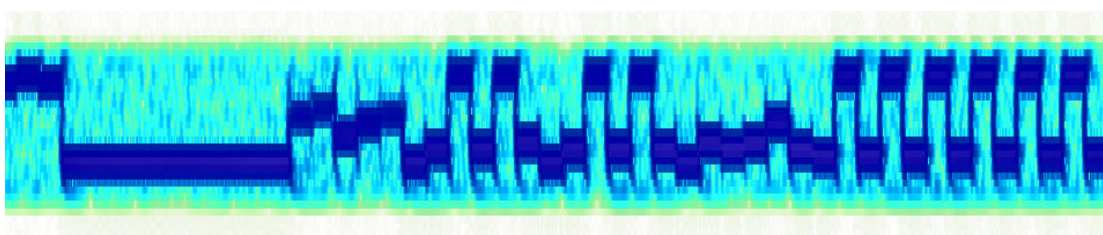


The signal immediately recovered and produced a decent spectrogram, used to determine the details of the two message format message that was not a repeat of that sent 2100z et al 29/12/2006. The break did not occur on the other sendings.

The null message received on 05/01 was very poor – lots of QRM but reasonable audio for 1st made for 100% copy. XJT on the 2120z again and 2140z weak and noisy. The same message was repeated for 09/01 but with excellent signal strengths.

The 12/01 null message that lasted the usual 2m16s was unreadable at PLondon's QTH due to poor strength signals and local noise.

Excellent signals on 16/01 with only the 2120z sigs battling XJT, but of readable quality. Although a null message the serial number [56245] was found to be a little strange as can be seen on our chart and this spectrograph which follows:



Like 16/01 the 19/01 sendings were good with the exception of 2120z which suffered XJT QRM. The 2100 and 2120 23/01 offerings were affected by XJT – not enough to blot out the strong signals though; 2140z weighed in at 30dBs and was received on PLondon's Sony 2010 on the whip antenna. 23/01 first two sendings were both S9 with slight XJT QRM but 2140z 30dBs

26/01 sendings at 2100z & 2120z were poor with noise and XJT whilst the 2140z sending weighed in at 30dBs with excellent audio. 30/01 saw the last of January's evening sendings and was reported by FN and JoA. It would seem that whilst signal strength was different the signal quality remained poor for 2100 and 2120 [XJT not helping for 2120] but the 2140z offering was better, if not a little noisy.

XPA Daily Log February 2007

XPA [MFSK-20 Russian Intelligence Multitone System]

1. 0700z: 10327kHz 2. 0720z: 11627kHz 3. 0740z: 13427kHz
ID364

ID/ msg /Sn/gc / dk/ lg

02Fri	364 1 00629 00153 43212 06361
06Tu	364 1 00462 00097 68044 47236
09Fri	364 1 04422 00181 64620 25025
13Tu	364 000 02731 00001 00000 10140
16Fri	364 1 00911 00213 03542 11162
20Tu	364 1 00316 00169 45680 45236
23Fri	364 1 00219 00141 12499 12203
27Tu	364 1 00323 00059 24599 63050

[see notes]

[see notes]

[see notes]

[see notes]

[see notes]

[see notes]

[see notes]

[see notes]

XPA [MFSK-20 Russian Intelligence Multitone System]

1. 2100z: 5892kHz 2. 2120z: 5268kHz 3. 2140z: 4572kHz
ID825

ID/ msg /Sn/gc / dk/ lg

825 000 03012 00001 00000 10140
825 000 03012 00001 00000 10140
825 000 05069 00001 00000 10140
825 000 05069 00001 00000 10140
825 1 774 11 0 0 0 0 0 0
825 1 774 11 0 0 0 0 0 0
825 1 702 46 0 0 0 0 0 0
825 1 702 46 0 0 0 0 0 0

[see notes]

[see notes]

[see notes]

[see notes]

[see notes]

[see notes]

[see notes]

[see notes]

February Morning Schedules.

For some unknown reason finding the 0700 and 0720z sendings on 02/02 proved troublesome for JoA and PLondon. The last sending was discovered 40s into its transmission at S9 by PLondon, whilst same was recorded by JoA as 30dBs. That situation was remedied on 06/02 and all sendings were found. The freqs as shewn were previously used May to August 2006, inc.

09/02 40dBs excellent sigs across the schedule. 13/02, again good sigs at 40dBs except 0700z which ranged between S9 and 40dBs due to QSB.

On 16/02 all strengths were good at 40dBs with slight QSB during 0700 and 0740z sendings. 100% copy across the schedule.

The same levels of strength were seen across the schedule on 20/02, with slight QSB during the 0720z transmission.

27/02 was excellent sigs and a 59 group message. Let's hope it's not an instruction to learn fast Norse!

February Evening Schedules.

The frequencies for the evening sendings were as Feb 2006 with good quality sendings across the schedule. As expected, Radio Vatican gave some QRM for the 2100z transmission, sited in the 49m band. For the transmission 06/02, where the null message was repeated, the frequency for 2100z was +2kHz which allowed PLondon to copy the stuff successfully using a tailored filter 510 to 1290Hz. Again good quality for the transmissions. 09/02 20dBs with excellent sigs.

13/02 was a repeat of the null message of 09/02 and with similar signal strength.

No null message at 2100z 16/02. The 825 ident was repeated in Morse whilst JoA and PLondon looked for any XPA sending, without success. It would appear that XPA was replaced by M12. Message for that evening as follows:

```
825 825 825 1 825 825 825 1 825 825 825 1 825 825 825 1 825 825 825 1
825 825 825 1 825 825 825 1 825 825 825 1 825 825 825 1
774 11 774 11
92256 64270 13559 69075 42185 35742 22293 56448 35968 18891
87224
0 0 0 0 0 0
```

Excellent strength.

The same message was transmitted, with M12 traits, again on 20/02. Another M12 message on 23/02 and repeated 27/02 with excellent strength signals. Notwithstanding February's offering, March started off on expected freqs with an M12 sending:

891 891 891 1 954 28 000 000

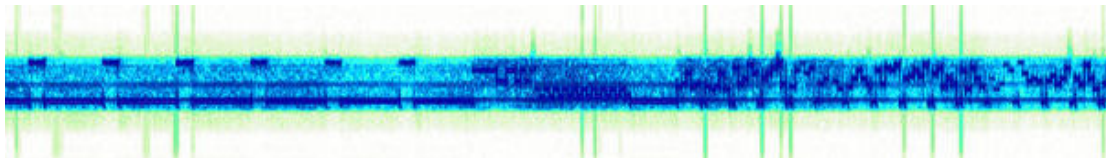
That, I think, proves the polytone/M12 link.

XPA2

Some observations of this polytone emission – thought to be diplo news.

8094kHz 1100z	15/02 S5 weak USB ends 1107	Mndbs
9142kHz 1110z	15/02 S9 loud AM carrier drops 1114.58 comes back then message resumes!	Mndbs
9338kHz 1140z	15/02 S9 in AM again ends 1146.30	Mndbs
1140z	13/02 Ended 1146 signal S3 - S7	Mndbs
10256kHz 1120z	15/02 S8 in AM mode???	Mndbs

Spectrogram from mndbs' sound sample:



8094/9142/10256 at 1100/10/20 and on 9338/10427/11574 at 1140/50/1200 19/02		MON
01909 00080 11334 LG 62421 00000 00000 01910 00186 48845 LG 26033	RNGB	

1100z:8094; 1120z:10256; 1150z 10427; 1240z 12158kHz 20/02	RNGB	TUES
05465 00090 20403 LG 14344 00000 00000 08178 00191 39562 LG 24472		

and Kopf fills that gap with:

11574kHz 1200z 20/02 USB with msg.	Kopf	TUES
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WE APOLOGISE FOR THE LACK OF A PREDICTION LIST FOR THIS ISSUE

Many thanks to all our correspondents for the logs, analysis and other assistance for the production of our numbers columns and associated charts at the end of our Newsletters.

ENIGMA 2000 Article

'WALLS HAVE EARS.' [Penned by HJH]

Part Two:

CLANDESTINE TRANSMITTERS

Recent research by this author has indicated that the STASI was directly responsible for the upkeep, maintenance and staffing, and, in all probability, programme content of, certainly one, probably two, clandestine transmitters, both of which were based in Gruenau, Berlin. (East, naturally!) , The first was Der Deutscher Soldaten Sender, (the German Soldier's Transmitter.)and the second was Der Deutscher Freiheit Sender,(German Freedom Transmitter.) The first was aimed at members of the Bundeswehr, the Federal Republic Germany's Armed Forces, and the second was to counter the prohibition in West Germany of the Communist Party of Germany. Both transmitted on Medium Wave, the DSS on 935khz and the DFS on 904khz. The author monitored the DSS in about 1969, when it broadcast an almost blow by blow account of the recent West German Bundeswehr Corps sized manoeuvres, called HERMELIN 2, in which he had just participated, with one of the few British Army detachments to take part. Almost exclusively involving West German Army units, this had taken place in, if memory serves, early November and the weather had been, as one would have expected, fit only for brass monkeys! The author's first impression was the accuracy with which movements and locations of various units were reported. This, of course, led one to wonder how deeply penetrated the West German Armed Forces were. On later reflection, much of the content could have been gleaned from local West German newspapers, and listening to and watching West German TV and radio, which broadcast troop movements to help the local populace avoid traffic jams.

The usual content of the stations was the then emerging motor-mouthed DJ's (and no, they sound NO better in German!!) playing the then popular records. This would be then interspersed with the usual Communist drive. Ironically, it was a disciplinary offence for the soldiers of the Armed Forces of the GDR to listen to either station! The DSS was based in Berlin-Gruenau, (where the Federal German Army have now based a unit!) and the DFS was in Koepernick. It has since struck the author as ironic that the Allied Forces, during WW2, had a clandestine radio transmitter, named The German Soldier's Transmitter, based in the Calais area, aimed at the German Armed Forces, with the same propaganda intent. One source consulted by the author has both these GDR run stations being active between October 1960 and June 1972.

NUMBERS TRANSMITTERS.

No article of this type would be complete without mention of these as they applied to the former GDR. I am indebted to my contact Hans Vogl, a former Ober Fahnrich in the Signals Intelligence Branch of the NVA, for the following information. There were transmitters located North of Berlin, which were tasked with the transmission of encrypted radio traffic. These were the responsibility of the Foreign Intelligence Branch of the GDR Intelligence Service. They would have come under HAIH. There was in the area of Dessau a standby transmitter. See under NVA ARMY for details of this transmitter, details and photos of which the author has used in this article with his permission. Transmitter power was 20 kW. The manufacturer of this, a HF transmitter Type KN20, was the RadioWerk at Kopernick. This author will not insult the intelligence of E2K members by pontificating at length on Numbers Stations.

TELEPHONE MONITORING.

All types of telephone, fax, and teleprinter circuits in use in West Germany and West Berlin were monitored on a regular basis by HAIH. Prime targets were the telephone circuits, which the Bundespost (West German Federal Post Office) used to transmit two thirds of all telephone calls. These were transmitted over directional radio links, and were relatively simple to intercept as a result. Purpose built intercept sites were constructed on the highest points of the mountain ranges of the Brocken and Rhone mountain ranges. These targeted the information rich telephone circuits coming out of the Cologne-Bonn and the Frankfurt-Main areas. These carried the telephone calls of the Western military, government, technical and industrial communities in those areas. It will be recalled that 2 sites were built on Czechoslovak soil. These made it possible to extend HAIH's monitoring cover to net calls emanating from South West Germany. A source inside the former HAIH has claimed in post Cold War interviews that the HAIH units even monitored the telephone circuits of the French Intelligence Service. The same source is further quoted as saying that these were a rich source of intelligence about industrial economic and civil aviation projects in which West Germany was involved. If this is true, it raises the question as to what purpose the French were pursuing and what use they intended to make of this information. Perhaps simple industrial espionage, or something darker? (It should not be forgotten that France has long since ceased to be a NATO member.) There is little doubt that HAIH were conducting far more involved surveillance than the Armed Forces of the GDR. They also conducted complex operations using the SIGINT obtained. There is evidence of a "Dirty Tricks" campaign being waged against at least 2 West German politicians. They also collated SIGINT obtained from the Armed Forces units tasked with SIGINT duties. So, how advanced were they, and how far would they have progressed? In an interview with "Der Spiegel" Mannchen stated that HAIH had computer systems capable of operating on the trigger word principle. They were, apparently, unable to tap the fibre optics telephone circuits employed by the West Germans. The achievements of HAIH during the period now known as "The Cold War" will take more space to list than is available here. So, therefore, let the last word go to Major General Horst Mannchen, whose HAIH produced intelligence of great value to the Warsaw Pact Forces, and whose performance equalled that of their Soviet counterparts, the KGB 16th Directorate, which was responsible in the USSR for SIGINT/ELINT operations. Former opponents called his efforts, abilities and technical skills, and the results he and his team produced "World Class" Just as philosophical as he had seemed in his taped interview, which this author saw, he wryly remarked "And what good did it do?"

AUTHOR'S NOTE. I have translated the German language sections so as to make sense, as we would read them in English. Thus, for FUNKAUFLARUNG, which literally translates as RADIO RECONNAISSANCE, I have used ECM/SIGINT for this is what the work entails. Again, STORUNG translates literally as DISTURBING. Used in the context of radio, it is, of course "JAMMING," and is translated as such.

NVA SIGINT AND ECM UNITS:

NVA VOLKSMARINE (PEOPLE'S NAVY)

Let us now take a look at the various NVA units involved in SIGINT and ECM, and how they performed and were equipped. First, and for no particular reason, save that all the nice girls seem to love them, the Navy. And, of course, as the author's late Dad never tired of saying, being himself an old sea dog, "It IS the senior service!" On a more serious note, the organisation which could be considered the fore runner of the People's Navy, or Volksmarine, to give it its German title, namely the SEE POLIZEI or Sea Police, were, according to one source which this author has seen, the first organised military body in the newly formed GDR to carry out SIGINT as we understand it. (Source NVA FORUM.) They were, apparently, acting as a precursor of the NVA Border Guards or GRENZTRUPPEN, and were active in the area of the Baltic coast on protection duties concerning potential or real violations of Germany's (GDR) territorial waters and Fisheries Protection duties. The source in the NVA Forum gives 1950 as being the time of activation of covert SIGINT units in the SEE-POLIZEI (Sea Police, which was itself a branch of the VOLKSPOLIZEI, or PEOPLE'S POLICE.) and gives the location as being on the Baltic coastline, with these units manning "radio beacons", a good cover for any type of radio activity, covert or otherwise. The same source states that by the end of 1950, radio direction finding stations had been constructed at TARNEWITZ and AHLBECK. Further, the same source states that on the first SIGINT course to be run in 1953 that the presence in the Sea Police of dedicated "Radio Location Officers" on such courses is a further indication of the now not so covert activities. The Senior Service was living up to its name, by being the first kid on the block with the new toy which everyone wanted, namely SIGINT/ELINT, having seen what a war winner it could be!

The unit chiefly tasked with carrying out the SIGINT/ELINT and EW missions of the Volksmarine, or VM as it will be called from now on, was called FD 18. This stood for FUNKDIENST 18, or RADIO SERVICE 18. An NVA VM source has identified "18" as the tactical number of the VM. The two main bases were reportedly at ZINGST and TARNOW. Analysis of various sources shows that ZINGST, which FD 18 shared with an NVA Army anti aircraft missile unit, was the main base and HQ. It was here that the Command Post, SIGINT control centre, and signals analysis staff, as well as command staff was based. Also, to this command post, a secure landline link had been installed to allow the secure transmission of priority SIGINT Intelligence, amongst other things. A former NVA SIGINT specialist gives the following list of equipment as being issued to FD18. Monitoring receivers types R1250 and EKD. Also, various unidentified marks of VHF/UHF receivers for monitoring maritime R/T traffic. For radio location, R359 and REV259 were used. Interestingly, the SIGINT/ELINT units of the NVA used several radios of Hungarian design and manufacture. One of the author's sources, together with other NVA SIGINT personnel, attended training courses at ML Budapest, in Hungary. At ZINGST, the 3 shift system was worked, which gave monitoring coverage 24/7. Collaboration between FD 18 VM and FuAR2/ZFD (ARMY) began in 1978, and VM liaison officers are known to have been stationed at DESSAU, HQ of FuAR2. To give longer range, presumably when monitoring maritime VHF/UHF bands, Mi8 helicopters were used to give over the horizon cover. The SIGINT specialists of these aircraft were provided by FD18. FD18 also trained seagoing operators to crew the sea going AGIs which we shall examine later. Of no less importance for monitoring purposes were the frequencies used by the West German Naval Air Arm, operating out of NORDHOLZ with their "Atlantiques", a maritime surveillance aircraft of French manufacture equipped at that time for SIGINT/ELINT missions against the NVA VM and other Warsaw Pact Forces.

The frequencies of the two West German Naval Air Arm wings based at Schleswig (MFG 1 with F104s) and MFG2 at EGGEBECK with RF104Gs (Reconnaissance aircraft).were likewise of great interest. Another task was to monitor the maritime frequencies for reports of when the sea going AGIs of Survey Ship Detachment 4. (These were FD18s sea going counterparts, who we shall examine alter.) were spotted. Thus it went on, and together with the West German “Sea King” helicopters and Do24 reconnaissance aircraft operating out of Kiel, the airwaves contained much of interest for the SIGINT specialists of FD18.

In 1987, the People's Navy of the People's Armed Forces of the GDR had strength of 16,300, of whom about half were conscripted. Its vessels numbered 131 surface combat vessels, and 48 auxiliary vessels, of which 39 were Intelligence gatherers, hydrographic survey, cargo, and service craft of various tasking. The People's Navy had NO submarine branch. For SIGINT/ELINT tasking, it used initially a vessel named the “HYDROGRAPH”, which had been fitted out as an AGI. Built originally as a fishery vessel, the conversions consisted of adding the various SIGINT and ELINT gear that the vessel required for it's new missions. The associated antennas and other such equipment were also added to the vessel. Recording equipment for later analysis and archiving was also fitted. These were tasked with patrolling near West German and Danish military bases where it was possible to gain valuable intelligence of a SIGINT or ELINT nature. Swedish bases were also targeted, despite Sweden being, at that time, a non-aligned country. Working together, the AGI vessels would follow NATO naval units on exercise in the Baltic Sea. Another mission for these units was, in co-operation with the NVA Air Force, to patrol off the coast, while aircraft of the GDR flew simulated penetration flight profiles that were designed to cause alert aircraft from the NATO bases to be scrambled to intercept them. The Ground Control Intercept and air-to-air RT traffic could then be monitored and recorded for analysis and counter measures to be devised, to be later used should air space interdiction become necessary. Intelligence thus gained would also be passed to the Soviets for their own analysis and use/archiving. Another, for very useful thing for the skipper of a AGI to know is when he has been spotted. Indications were that on a West German vessel sighting one of the survey ships, the general call would be monitored in on the known frequency, “AREA WARNING RED.” Sure enough, on the AGI leaving the area of interest, the call “AREA WARNING BLUE” would be received. Since most skippers know exactly where they are, any messages about activity in their area could only refer to them. Standard procedure, when approached by one of the West German Navy AGIs, who were, of course, their electronic opponents, was to shut down all active SIGINT/ELINT gear and monitor on passive receivers only.

The East Germans are also known to have built, between 1959 and the mid 60s, 15 of the "OKEAN" class of converted side trawlers that were used by the Soviets. Given that the Soviets have sufficient ship building expertise of their own, it can be taken for granted that this was an excellent type of craft for the type of SIGINT / ELINT work involved, and they were confident in the East German shipbuilders' ability. The seagoing AGI were under the control of 4th Survey Flotilla based at ROSTOCK WARNEMUNDE. This flotilla was composed of the following vessels

- (1) JASMUND Pennant Number D41
- (2) METEOR Pennant Number D42
- (3) KOMET Pennant Number D43

The following is a description of the vessels as they would have been in service, beginning with the first AGI to enter service with the NVA VM.

HYDROGRAPH

Built at Volkswerft at Stralsund as a fishing ship initially, she was converted to AGI standard and taken into service with the 4th Survey Ship Flotilla, based at ROSTOK WARNMUNDE on 28 /11/ 61. She served as an AGI until being taken out of service on 27/05/83 in Rostock, where, following the removal of all her SIGINT/ECM equipment, she was scrapped. She was replaced in service by the “JASMUND”.

DIMENSIONS

LENGTH 50.8 METRES DISPLACEMENT 689 TONNES

BEAM 8.8METRES SPEED 11 KNOTS.

DRAUGHT 3.4 METRES CREW 25

JASMUND

The 1,900 ton "JASMUND", a transport ship in service with the NVA Navy, was converted to the AGI (Auxiliary Intelligence Gatherer) role in 1988. She was so used until 1992, and, post reunification, she was sold to the Spanish Navy, where she is still in service in the AGI role, albeit with a completely new ELINT/SIGINT fit. (See "RECYCLED AGI" in an earlier newsletter.) She had the same lines in her GDR guise as she has today, namely numerous antennas in a prominent array amidships, and a large radome mounted near her stern. However, in those days her ECM fit would have been different, and, probably, largely Soviet in design, and/or construction. It is known to have consisted of the following; Provision for 5 SIGINT work stations and space for 2 cargo containers which, if required, could be fitted out as SIGINT/EW workstations. 6 recording stations were available, and beneath the huge radome were fitted antenna of the following types; - log periodic, parabolic and dipole. To the mast were fitted various discone antennas. Together, this fit gave JASMUND the capability to monitor in the frequency ranges of HF, VHF, and UHF. Coupled to this, some of the extensive fleet of East German trawlers can be assumed to have been similarly equipped for SIGINT/ELINT missions as were their Soviet sister ships of similar class.

In addition, some SIGINT units were formed in the NVA Volksmarine, or People's Navy. as specialist Electronic Warfare units. One such was FUNK UND FUNKTECHNISCHE STORBATAILLON 18. The literal translation of this is RADIO AND RADIO TECHNICAL JAMMING BATTALION 18. This gives the clue that this unit was more tasked with offensive EW than with normal intelligence gathering missions. Of JASMUND's crew of 34, some were supplied by FUNKDIENST 18, (ABBREVIATED TO FD18, and which translates as Radio Service 18).which was the NVA Navy unit having prime responsibility for SIGINT and Electronic Warfare duties., and some by MfS HAIH, in a similar fashion to the NVA Luftwaffe SIGINT DESKANT operations.

JASMUND

Dimensions;	Length 76.2 metres	Displacement 2080 tonnes
	Beam 12.4 Metres Crew 34	Draught 3.85 Metres Speed 12 knots

She was built at Neptun Werft in Rostock, and taken into service on 15/05/85, when she replaced the “HYDROGRAPH”. Taken out of service on 03/10/90, she was sold to the Spanish Navy, where she continues to serve as an AGI under the name, “ALERTA” pennant number A111.



METEOR and KOMET

Both were built at the PEENE WERFT at WOLGAST, and were, in constructional detail, identical to the KONDOR class, despite being fitted out with SIGINT/ELINT equipment. METEOR entered service on 03/05/72, being preceded by her sister KOMET, who was taken on 09/03/72. Both were taken out of service on 03/10/90, and lay at anchor at PEENEMUNDE, until being bought by Estonia in March 1994. METEOR was renamed SULEN, and her new pennant number is M412. Her sister KOMET has become YAMBOLA and has the pennant number M412 allocated to her.

METEOR / KOMET

Length 52 metres , Displacement 359 tonnes, Beam 7.1 metres

Speed 19 knots, Crew 25, Draught 2.3 metres

Part 3 next time.....

An unexpected addition to NL39 from our clandestinous friend 'Plonker' who has truly worked in the murky world.....

PLONKER'S PROGRESS [4]

(Being a record of how Plonker got back into the numbers game!)

The late 80s found yours truly working for a large shipping line, based on the Bristol Channel coast. My job was that of a Maritime Security Officer, our Royal Naval colleagues would call it a "Ship keeper." What's in a name? And a hell of a come down for an old "scaley!" Be that as it may, it was a good number. I was on the staff, (I got paid sick leave!) and access to duty free goods. We were responsible for the security and safety of vessels, and personnel on board such vessels, in UK waters (plus the odd free trip). As, normally, we were only required to be on duty when a ship of our line was in port, and they only stayed in long enough to refuel and revictual, discharge and reload cargo, the turn around time was 4 days. Thus, 4 days on, 3 days off! Sweet! And I worked permanent nights, which meant that I was largely my own boss, there not being more than one other man on duty, and his duties were more in the nature of a traffic clerk! I got on well with the crews, especially the radio officers who were, at that time, still carried aboard UK vessels. (Hell, we even still had a Merchant Navy then!!) Another task was liaising fairly closely with HM Customs, and, less frequently, the local police. Having previously served in the Police, this was no problem.

I was, at this time, getting seriously back into radio, in particular HF listening.

However, the Memsahib was not earning a great deal, (Certainly not what she is worth!) as she could only work part time and our 2 children, (son 19 going on 10, and daughter 15 going on 30!!!) were still not fully independent of us either financially, or in any other way. (On reflection, they still are not.) Both were also subject to the little problems all teenagers seem to bring in their wake! So, the best I could manage was a battered "TEMPEST" multi wave band set of South African manufacture, two of which bands included short wave. The price was right, as it was a gift from some Rhodesian friends of ours of many years standing. (Don't even ask!) One Christmas, in a moment of madness, my family bought me a "Venturer" multi wave band set, analogue of course, and mode was AM only. (Digital had yet to dawn!) It had Long wave, (150 – 300 kHz.) Medium Wave (540 – 1600 kHz) and Short Wave coverage in 2 bands, (SW1; 7.00mhz -22mhz) and SW2; 2.3mhz-7.00mhz) plus VHF bands, these being the standard broadcast band of 88-108mhz, plus 2 more bands of Air (108-135) and MB/FM 140-175.) Interestingly, the last one covered the VHF Marine band, which, considering my work location was on the coast in a fairly busy port, was interesting. It was, for the money, a very good set. (For the money, so too was the Tempest!!!) It had a standard rod aerial, together with sockets for earphone, external aerial, and PA system., and a small directional aerial on the top of the case which consisted of a directional rod aerial mounted atop a 360 degree base for DF purposes, not that it was much use for serious DF work. An analogue meter doubled as a voltage indicator, and an S-Meter.

On the night shift, things were, as a rule, pretty quiet. I had my own berth side cabin, and soon had things set up so as to allow the quick setting up of the "Venturer", complete with cassette recorder, to monitor the HF bands for any interesting TX stations. I monitored any amount of broadcast stations, with good signal strengths on the S Meter. Radio Kiev, Radio Austria, Radio Berlin International (My log shows DTG0508892200 on 6.00 MHz in the 49 metre band. Bet they never saw what was around the corner, but then, neither did we!!!) I racked my memory to try and remember on what frequencies our "Shady Lady" Magdeburg Annie had strutted her stuff. Could I? Could I hell!

Nil Desparandum, as they say and I kept monitoring. One night, the god of Number geeks took pity on this poor plonker and, there, sure enough, was a distorted YL voice speaking German. The years fell away as I mentally moved from a British dockside alongside a huge cargo ship, back into the monitoring radio vehicle in the German forests where we always seemed to lager up. My log entry still reads "DTG0608892147 (Local time guys, sorry!) Freq.10.20 (sorry, analogues, no digital freq. read out, remember!) Yep, she was sending blocks of numbers, sure enough. Either I had come home to HF monitoring of clandestine TX with a vengeance, or I had found a HF long distance bingo game!!!

I was overjoyed at my find! Pretty soon, I was monitoring regularly, or as regularly as my duties would allow. No prizes for guessing what my off duty hours were spent doing at home! I started up a small log book, logging as we had in the Army, using DTG (Date/Time group) day, frequency, station indent. (If known), and message content and/or characteristics. Male or female voice and language in which transmitted was also recorded. Some tapes were made of interesting stations, and, just out of interest, and to see if I could still do it, I wrote down the message text of several English and German language number transmissions. Not that any of the numbers or letters meant a damn thing to me, nor was I naïve enough to believe they ever would! My EW duties in the Army had taught me that. I also remembered an old E.W. operator telling me that, even if the number crunchers ever HAD cracked an intercept, they would never let us know, in case we told anyone, and then the opposition would change their codes, and everyone would have to begin all over again. And the language? Many were in German, so, I thought, these are for German stations. Then I recalled what an Intelligence Corps sergeant had once said to me, regarding this, when I had made a similar remark regarding the language in which messages were transmitted. "Not so", he said sagely. "The fact that a message is transmitted in a certain language only means the sender and receiver understand that language." (Casting my mind back to Cardiff Central Bus Station and being greeted in Aden Arabic by Paul Effendi only proves the point!) And, as all you E2K guys know, it is not difficult to learn 1 to zero in any language, which, if you are monitoring numerical ciphers, is all you will need!

So what was I receiving in those far off days, and bear in mind this was all pre E2K, and I had no database or knowledgeable colleagues to ask what they thought of my rediscovered cipher stations, for that is what I was certain they were. No sound samples either. I was, quite literally, on my own. Imagine Picasso having knocked out one of his all time greats, and having no one to show it to! I could not ask any one what they thought. I had been promised a one way trip to the land of striped sunshine if I talked about my EW work. For all I knew, this could have been a follow up to Magdeburg Annie. This was August 1989, and the Wall had yet to fall. Then I met DELTA FOXTROT CHARLIE DREI SIEBEN (37) and my numbers interest really took off!!!

My first logging of this "Shady Lady from the BND", as I was to later learn she was, is down in my log as Sunday 21/8/91 at 2304. Not that I expected to hear any such transmissions. The wall had collapsed in November 1989, closely followed by East Germany. So, no more Magdeburg Annie or STASI stations. For short, and because she and I are such good friends, I shall give her short name of DFC37 from here on. But, here she was, sending a string of 5 figure number groups on 3.40MHz DFC37 would be sent twice, and then would follow ascending musical notes, followed by DFC37 yet again. Jochen Kopf has, I know, some excellent recordings of this lady, and her sisters on DFC21. There are some first class sound samples on Simon Mason's excellent web site, where you can hear this lady and her sisters who went, variously, by the names of DFC21, DFD21, PAPA NOVEMBER, PAPA SEPTEMBER, and YANKEE LIMA. I have no idea when these stations first started transmissions. I merely show here my first loggings as a record of when I first monitored them. Jochen or Simon or some of our other members have far more knowledge than I of these stations. Indeed, on Simon's site can be found some good in depth analysis of these stations together with a history of them, plus E2K designations. Remember, all this was before E2K, and there was more chance of yours truly clearing Beecher's Brook on a pogo stick than ever owning a computer!!! Some old audio cassette tapes are my only recordings of my H.F. meetings with these ladies. The format for these stations was always the same. Musical notes interspersed with the Call Sign or Net Identification Signal. These were repeated many times over. I soon got deep into this numbers game. We would go away to visit friends, and along would come the radio and cassette recorder and log book. Strange looks all around, but the memsahib took it all in her stride. I just mumbled something about not wanting to miss a radio programme, which was, in a way, the literal truth! Soon, I was recalling how the SIGINT guys had carried out traffic analysis, call sign comparison, logged transmission modes, and made out transmission schedules of the various stations which we monitored. Not that I was ever a signals traffic analyst. As I mentioned, my only claim to fame was being fluent in German. Soon, I was making out skeds of transmission times for my new found friends, and loving it. Lists of call signs for comparison followed, along with mode comparisons. Although my rig was only AM capable, even I knew that if it sounded like Donald Duck in SCUBA kit, then it was a good bet that the mode was SSB!!! I soon realised that there were several stations which were all similar in their mode of operation. DFC37, DFD21, Papa November.

These were, I remember thinking at that time, all part of the same network or organisation. And very professional they were! The style never varied. Musical ascending notes, followed by the German YL giving what I would say was what we called a Net Identification Signal or NIS for short. Then she would call up some 3 figure call sign, and announce how many groups of text were intended for each station. Typically, this is what was sent:-DFC37, DFC37, then would follow the musical notes. This was repeated many times. Then she would say, (and here there is some contradiction) "Es folgen Mitteilungen fur:" (English: "There follow reports for:") I have been told by monitors who have studied these stations more deeply than I, and are Germans who monitored them in Germany, that that is what was said. However, I have tapes of these stations which I monitored, and which I made at that time, some of which I am certain say, "Es folgen Sendungen fur" (English: "There follow transmissions for." This not the time or place for an argument, and I will not indulge in one.) Then, having said that she would announce which 3 figure call signs were to receive traffic in that particular sending. Thus, a full announcement would read, following the preamble: "DFC37:DFC37: Es folgen Mitteilungen (Sendungen) fur: 274: 274: 40 Gruppen" then, once all call signs had received their stand-by call. "Achtung! 274:274: 40 Gruppen!" ("Attention! 274:274: 40 groups!") Then the transmission of the 5 figure groups of numbers would be read out, and repeated. Were there no more traffic, she would terminate the transmission with "Ende!" Papa November is another of the stations which figures frequently in my logs of these years. Again, if you are interested in the history and format of this TXer, visit Simon's site, where this station has the designator of G15 (inactive) Below, I have included a sample of my loggings from this time, purely for historical interest, and to show what prolific stations these were.

The abbreviation NIS/CS is Net Identification Signal/Call Sign, as I am sure that DFC37 and DFD21 and Papa November and Yankee Lima were, indeed, all networks, and the various call signs which were used were the agents which they serviced. The reader will notice that the transmissions on the hour are in AM, and those on the half hour in SSB. Invariably, the same call signs were called, and the same number of groups sent to them.(A point made in Simon's analysis)

DAY	D.T.G.	FREQ.	N.I.S./C.S	MODE	TEXT/REMARKS.
Tues	0702921900	3.40	DFC37	AM	German YL. CS 404-48groups
Tues	0702921930	3.40	DFC37	SSB	As Above
Tues	0702921930	3.20	Papa November	AM	German YL series of 5 fig nos. groups sent twice
Tues	0702922030	3.40	DFC37	SSB	Standard format
Sat.	0802921730	3.40	DFC37	SSB	Standard format
Sat.	0802922030	3.20	Yankee Lima	AM	German language YL CS928-142 groups. 5 figure nos. groups sent twice.
Sun.	0902921700	3.40	DFC37	AM	Standard format
Thur.	1302921930	3.40	DFC37	SSB	Standard format
Thur.	1302922000	3.40	DFC37	AM	CS196-56groups CS094-60groups
Thur	1302922030	3.40	DFC37	SSB	Standard format
Thur.	1302922100	3.40	DFC37	AM	CS852-46groups CS526-24groups
Thur.	1302922130	3.40	DFC37	SSB	CS211-40groups CS152-46groups CS526-24groups
Fri.	1402922000	3.40	DFC37	AM	CS203-25groups CS400-90groups
Fri.	1402922030	3.40	DFC37	SSB	CS203-25groups CS400-90groups
Fri.	1402922100	3.40	DFC37	AM	CS965-18groups CS130-101groups
Fri.	1402922130	3.40	DFC37	SSB	CS965-18groups CS130-101groups
Fri.	1402922230	3.40	DFC37	SSB	Standard format
Fri.	1402920000	6.50	Papa November	AM	German YL CS491-08groups CS799-10groups CS243-16groups CS602-09groups CS974-15groups CS307-28groups

These stations I found fascinating. But, unlike the voices I had been monitoring during my EW days, I had no clue, at that time, for whom they were intended. I still do not! Neither did I know from whence they came. I know that today they are attributed to the BND. But, given that this most prolific of Number families was monitored POST WALL and was still sending very heavy volumes of traffic, at whom were they aimed? Certainly not at BND operatives in the DDR, for that had ceased to exist. Had the BND taken over the large network of STASI "Inoffizielle Mitarbeiter" (Unofficial Collaborators) and, having turned them, (but in which direction?) were now running them? Hardly likely! At whom would they be targeted? Former STASI operatives? The Soviets, who, be it remembered, were, at that time, still in the process of pulling out of the former DDR. Neither seems likely. Even if one allows for the time honoured deception of sending large volumes of radio traffic to non existent stations, with the intention of deceiving the opposition into thinking that there are far larger networks of illegals in place than there in fact are, who now, was the opposition,? Did the BND have their agents who, having been in place in the former GDR, were now being tasked to monitor the rate of pull out of the former Group of Soviet Forces Germany? Given the extent to which we now know the former West German BND and other Government agencies were penetrated, one would hardly believe so.

And what of the others? I had given them all my own names, for this was, remember B.E. (Before Enigma) The station which attracted me greatly, partly because I did not monitor her very often, and partly because her gravely voice reminded me of "Magdeburg Annie". I called her the "NEUGEN Lady", because she used the former DDR voice procedure pronunciation of some numbers. They were: TSWO for ZWEI or TWO, FUNNEF fro FUNF or FIVE, and NEUGEN for NEUN or NINE. Any old radio op. will tell you that British Army voice procedure dictates that one be spoken as wun, four as four-er, five be pronounced as fife, and nine as niner. The style of "The Neugen Lady" is as I remember the GDR NVA (East German Army) transmissions which we monitored speaking. (A source within the NVA Forum confirms this.) Our German colleagues or any German speakers can visit Joerg Droebick's excellent site on Eastern Bloc cryptographic machines entitled "SAS und Chiffrdienst in der NVA.". It really is worth a visit, as voice procedure, as practised by the NVA also gets a mention.

For some good in-depth analysis and a short history of these stations, which, like their BND sister, Papa November, which has the designation G15(inactive) were first monitored in the 70s, you can do no better than visit Simon Mason's site. I will not re-hash Simon's work, save to mention that the TXers DFC37 and DFD21 are given the designator G14. His analysis is in complete agreement with that which I carried out at the time. These were the most prolific of stations, as a visit to Chris Smolinski's excellent database will show. Chris now has a great search engine on the database, which will help anyone searching for a specific station to find it, together with a lot of detail on that TXer. I have put most of my loggings from this time on that database. (It's amazing what quiet night shifts can drive a man to do!!!) I would say that the only current station even approaching the broadcast output of these TXers, next to, possibly, the famous Magdeburg Annie, is our very own Tel Aviv Tina, E10.

Not that I had a clue at that time who or what she was. I first have her in my log as

. "Quote; DTG0908890105. (Wednesday) Frequency21.00MHz.YL sending NATO phonetics.

Ended 0110. After message ended, Morse "O" sent on this frequency. End quote." (There you go Alpha and Manolis, a little bit of history!)

Nor did the famous "Lincolnshire Poacher" "escape the old eagle ear of your trusty scribe. I was impressed with the clarity and diction with which she invariably delivered her blocks of 5 figure numbers. Given that we now know her to be a figment of cyber space, hardly surprising! So, what did this fascination with these stations get me? A fascinating hobby, a flash back to my lost youth, some of which was spent monitoring transmission from "over there," as we referred to the land beyond the wall and the wire. It also refreshed old memories of procedures my colleagues and I in EW had practised years before. Once having picked radio up, very few will put it down! And of course, some 20 years down the line, it has brought me to E2K, and some like minded people, who, like me, are not content with the reply famously given to an enquiry about these number transmissions as being, and here I quote, "Not for the consumption of the general listening public." Like you guys, I want to know a little more than that, and, with the fall of the wall, we are now learning a little more about the way things were "over there". The internet and some like minded colleagues all over the world are seeing to that. A lot are probably like many of us, certainly I am. Old "scalies" who, once having been bitten by the radio bug cannot cure the sting. I sincerely hope the day of HF transmission of the cipher variety may long continue. I do not believe our "NUMBER" will be up for some time yet!

And what about those stations? Where are the Bulgarian Betties and Magdeburg Annie's of my youth? Well, I'm a grandfather, and if they are still above ground, (and I sincerely hope that they are!) then I am sure they are probably grandparents too. I recall monitoring Magdeburg Annie, (on instructions, it has to be said. To do so in one's own time was to invite a call from the "men in suits"!) My fervent 20 year old imagination conjured up images of a Marlene Dietrich look-alike., clad in a tight black uniform. (If I had not had a cold shower that day, the uniform invariably became leather!) In reality, however, she was far more likely to have been sitting there looking very much like the local librarian in tweed, and probably doing her knitting as she sent out endless streams of numbers. Come to think of it, "she" may even have been a machine generated entity! If so, I hope it was vacuum tubes (valves). Much more class, somehow!

Plonker, aka "The Marconi One". [Txn Plonker]

Now an extra piece of interest to those who are 'Cold War' orientated:

SPYING PROBES IN THE DDR from the translating genius of HJH

A bus brings us to IRFERSGRUN in the district of ZWICKAU. A little later we come near to a camp complex of the GDR land forces. The concrete road on which we stop is the emergency crash out exit of the duty post. On both sides of the road are pine groves. We are now 70 meters away from the emergency gate. Here we are met by Colonel Schubert the head of CID in the VP in Karl Marx Stadt.

16 meters away from the position located in a wood, is the spot where a spying device was found buried (See photo) Col. Schubert is directing the forensic examination at the site of the find. The site is sealed hermetically; the ground has been thawed out by means of a sirocco heater. TV and video cameras together with a receiver in the megahertz range have been set up. After we took in the appearance of the place, we went to a tent set up immediately next to the boundary wall to watch further developments on the screen. What now follows happens under the direction of Mr. Hans-Jürgen Buchner, specialist in espionage technology, and the supervision of Major Andres Reinbacher, a military prosecutor. What was going on here?

SUSPICION OF MILITARY ESPIONAGE.

On 5th January 1990, the office of the Military Prosecutor was advised of the suspicion of military espionage. The grounds for the suspicion were the results of SIGINT work undertaken by the signals and electronic intelligence experts who, on 6.10.89. had begun receiving signals of only a few second duration. These signals were in the UHF range. In the weeks which followed, more signals were received. The suspicion arose that there was possibly second spy transmitter in use; - very similar to that which had been hidden next to the Soviet garrison in the area of Frankfurt on the Oder. This happened on 22.10.89. Over the months, scientific investigation with an enormous technical expenditure produced the following results regarding the decryption of the transmission: - the devices were fully functional independent technical surveillance systems. Highly sensitive seismic sensors registered all ground tremors. The on board computer classified the seismic results (e.g. movements of wheeled or track laying vehicles, of single vehicles, or of convoys.) and also the direction of the ground tremors. That is, was the vehicle moving away from the object? The on board computer classified the seismic results.

The collected results of a whole week would then be gathered and encrypted by the computer, and, in seconds, sent as a burst transmission. The antennas were like thin sticks in the ground. The transmitter power was 50 watts and the frequency was 306.446 MHz.

Quite simply put:- such pulses then, in a week, lasted a few seconds duration and contained all the collected information. To locate such a device is immensely difficult. In the first instance, it lasted close to a year. In the second instance, experience could be used. The first pulses were sent for the first time on 6.10.89, (See fig 1) Computer analysis results showed that the transmission on that day was actually the first broadcast. Comparison of the transmission structures (see fig 2) with those of the first device and the location (Immediately at this NVA Service site) confirmed the suspicion of military espionage.

In time, Herr Buchner explained in greater detail the further steps. On the screen we watched as two specialists of the Volkspolizei dug out the device.

In time, a UHF receiver is set up, (which has been tuned to 306.446 MHz.)

and also other technical devices. According to the words of Buchner, should the location of the spying device change, then it must transmit a warning signal. The receiver equipment should make this audible. After a good half hour, we will see. At the moment at which the device is lifted and turned, a small pulse breaks through the mesh of the receiver. Now the user of the device knows that it has been uncovered.

The Last Signal to INSCOM.

Who is the user anyway? Precisely, says Buchner, it is impossible to tell. The specialists have postulated that the device is integrated into an American satellite intelligence gathering system. Possible users include INSCOM (Intelligence and Security Command) the CIA, whose HQ is Langley in Virginia at Arlington Hall. So far, so good. One thing is known with certainty. Such a mission is a prime function of electronic intelligence.

SHORT EXCURSION THROUGH SATELLITE SPYING.

In time, the specialists confirm that the recently discovered device is part of the FLTSATCOM (Fleet Satellite Communication System) I find this questionable. FLTSATCOM is a telecommunications satellite system of the US Navy. This comprises 5 satellites in geosynchronous orbit, and one of the 24 channels with which each unit is equipped, also works in the frequency range of this apparatus. The system has, however, another fundamental purpose. It also carries the radio speech traffic of the various naval units which are dispersed all over the world, and it is incorporated into the submarine combat control and command system of the USA. Satellites in this system are, typically, telecommunications satellites. A further priority of the military satellites of the USA, one which is by no means low, are the navigation satellites. One of the best known systems is NAVSTAR, the only one which was developed and tested in collaboration with NATO.

NAVSTAR satellites are similar to early warning satellites and are equipped with infra red sensors which can locate nuclear explosions. They should check on test ban treaties which, although certainly necessary, could certainly be done more cheaply. Apart from that, NAVSTAR is used by the US Navy in the guidance of ICBMs of the Trident 2 type, which are capable of undersea launching.

NAVSTAR in communication with the IRFERGRUN pulses? Naturally that is also questionable. However the fact guides the attention to the technical feasibility. A Spiri publication reported o a breathtaking exercise carried out by the US Army. 4 soldiers, who were equipped with NAVSTAR receivers,

were , so to speak, inertially guided by satellite from different start points to a common target point. The point of error in the Target location was less than 3 metres. Every technically literate person can see that this cosmic axis can be reversed.

Over half of all satellites are intelligence reconnaissance satellites. The best known are photographic, early warning ocean monitoring, and SIGINT and ELINT satellites. The last named may be, for our purpose, the most interesting. Little is known about them, they are classified "TOP SECRET".

In general, their mission is monitoring radio signals and radar networks. As stated in the "German People's Newspaper" (6.6.84) in an edition of the British military magazine "Defence Attaché" reported "If a satellite can see it, we can."

Thanks HJH for your valid work - shukri effendi.

HJH credits the NVA Forum for the original German version of this fine piece.

Now onto PoSW's Items in the Media:-

Polish clergyman owns up to links with communists;- a continuing story in the *Daily Telegraph* has thrown some light on the extra-mural activities of some Polish churchmen not so very long ago. "Tearful archbishop resigns at first mass as he admits spying for the secret police" said a headline in the *Telegraph* of 8-January. The piece by Matthew Day in Warsaw and Malcolm Moore in Rome starts off, "The Archbishop of Warsaw resigned yesterday minutes before his inaugural mass after admitting that he had been an informant for Poland's communist era secret police. Mgr Stanislaw Wielgus, who was appointed archbishop of the Polish capital last Friday, tearfully read out his resignation to cries of disbelief from the congregation in Warsaw Cathedral.....after initially denying that he had any links with the Cold War secret services, Mgr Wielgus admitted that he had been a collaborator after two independent commissions condemned him. His accusers say he was first approached when studying at Lublin University in 1967, and was referred to by his spy masters as either Agent Grey or Adam Wisocki.One Vatican source suggested that 'as many as 15 percent' of priests in the former communist bloc had collaborated with the regime.

A few days later on 12-January Matthew Day wrote an update headlined, "Church faces more spying scandals"..... "A priest has warned that the Church in Poland could be rocked by spying scandals in the wake of the resignation of the Archbishop of Warsaw, who quit after it emerged that he had collaborated with the communist-era secret police. Father Tadeusz Isakiewicz-Zaleski, who is about to publish a book on the role of the Church under communism, said that up to 39 priests in the Krakow area alone collaborated with the secret police, the notorious SB, four of whom are now bishops."

David Shayler making the news again;- a somewhat sad piece of news concerning the former British intelligence operative appeared in the *Mail on Sunday* of 7-January. Headlined, "It's all over for Shayler and the spy who loved him" the story by Jason Lewis, the *Mail on Sunday's* Whitehall correspondent says, "He was the maverick spy who blew the whistle on the alleged wrongdoing at the heart of Britain's secret intelligence community. She was a glamorous high-flying MI5 officer who turned her back on her career to stand by the man she loved as he faced jail for exposing State secrets. But now, after years spent on the run in Europe ex-MI5 spies David Shayler and Annie Machon have split up. Last night Mr Shayler revealed that he was no longer with the 'love of my life' and had moved into a converted garage at their shared London home.....The pair were thrust into the limelight ten years ago when Mr Shayler gave an interview to the *Mail on Sunday* accusing MI5 and MI6 of mismanagement and illegal activities, including a claim that MI6 was involved in a failed assassination bid on Libyan leader Colonel Gaddafi. Mr Shayler fled to France before the *Mail on Sunday* published the interview and was soon joined by Ms Machon. He was later arrested following an extradition request from Whitehall and held in a French jail for four months. The case was dropped but in 2000 Shayler returned voluntarily to the UK. He was arrested and held on remand in Belmarsh prison for three weeks charged with three counts of breaching the Official Secrets Act. He was sentenced to six months in jail but was released after just seven weeks"

A forty year old puzzle finally solved;- they say everything comes to he who waits and I have just received enlightenment on a topic on which I had dwelt in the shadow of ignorance for four decades or more. The very first long-playing record I ever purchased was entitled "The Free Wheeling Bob Dylan" by, well, Robert Zimmerman actually - but using his more familiar name of Bob Dylan - which, if I remember correctly cost me about one pound, nineteen shillings and sixpence in 1965. On one of the tracks, entitled as I recall, "The World War III Blues" Mr Dylan makes some reference to the act of going into his fallout shelter and turning on his "Conelrad". "Now what on earth is that ?", we all said at the time; and nobody was able to provide an answer. Since those far off days I had one come across the word on one other occasion in a 1985 American publication which contained an article on the USA's very first transistor radio, the Regency TR-1, which was produced by a team of engineers at Texas Instruments in time for Christmas 1954. A leaflet packaged with each TR-1 informed the purchaser about, as the article said, "the use of Conelrad frequencies in the event of an enemy attack". So there was clearly some radio connection to the word "Conelrad". Now the veil has been lifted thanks to an article by Stef Niewiadomski in the February/March edition, Issue No. 105, of the always excellent magazine, *Radio Bygones*, entitled "The Conelrad Alert System". Mr N. informs us that Conelrad is formed from the words CONtrol of ELEctromagnetic RADiation and was a scheme by which AM broadcast stations in the US would, in the event of a nuclear attack by means of aircraft, cease normal operations and change frequency to either 640 KHz or 1240 KHz and reduce power in order to prevent the incoming enemy using medium frequency broadcast stations of known locations as navigational beacons. I don't think the dear old BBC had anything like that on this side of the Atlantic during the Cold War years. The only known connection between broadcasting and nuclear war that has been made generally known is that apparently, the Royal Navy submarines carrying the Polaris missiles would surface every once in a while and check to see if the BBC's longwave transmitter at Droitwich on 198 KHz, or 200 KHz as was the frequency until the late 1970's, and if no signal could be heard it would be assumed that war had broken out and the country had been H-bombed to destruction.

"All gone to look for America" - Paul Simon and Art Garfunkel;- I enjoyed *Plonker goes Transatlantic* by "The Marconi One" in E2K38; good to read that he had a pleasant time in the U S of A. One person who didn't fare so well in the Land of the Free and the Home of the Brave was Professor Felipe Fernandez-Armesto who, in spite of his Spanish sounding name, speaks the English language with the voice of the cultured English gentleman, as viewers and listeners of his programmes on television and radio on historical subjects will know. But that didn't impress the Atlanta police too much. From the *Daily Express* of 11-January comes a piece by David Pilditch headlined "What happened when a professor went jaywalking"....."An eminent British historian was attacked by a policeman and thrown into an American jail after crossing the road in the wrong place. Professor Felipe Fernandez-Armesto told yesterday how he had been the victim of 'terrible, terrible violence' after he unwittingly committed the offence of jaywalking in Atlanta, Georgia. The slight, bespectacled academic, who has been a critic of George Bush's foreign policy, claims the officer hurled him to the floor after challenging him over his crime. He was pinned down by the officer and four colleagues who raced to the scene before being handcuffed to another suspected criminal in the back of a 'filthy fetid paddy wagon'. After his arrest he had his mugshot taken before spending eight hours in jail. The former Oxford professor was at a meeting of the American Historical Association and crossing the road between the two hotels serving as conference venues when he was targeted.

He said he was stunned when confronted by Officer Kevin Leonpatcher and had no idea the officer was wearing a uniform as it was under a bomber jacket. Nor did he know that jaywalking is a crime. It is classed as a minor traffic offence and can lead to a fine. Professor Fernandez-Armesto said 'All I was aware of a rather intrusive young man shouting at me, telling me that I shouldn't have crossed the road there. I thanked him for his advice and went on. This young man kicked my legs from under me, wrenched me round in what I think is a sort of judo move, pinned me down, wrenched my arms behind my back and handcuffed me.....I had five burly policemen pinning me to the ground, pressing my neck with really severe pain.....I find it incredible that an ageing, mild mannered professor of impeccable antecedence should be subjected to such abominable treatment'.....Professor Fernandez-Armesto appeared in court the next day but all charges were dropped after he explained what had happened to the judge. A police inquiry is now under way after Atlanta mayor Shirley Franklin called for an investigation."

Continuing the American theme;- from the *Daily Mail* of 8-January;- "FBI to hold British Fingerprints" says the headline, and continues "Millions of British holidaymakers will have their fingerprints stored on the FBI database alongside criminals, it emerged yesterday. Under the new anti-terror powers, visitors to America will have all ten fingers scanned when they enter the country. At present, US airports take only two prints from visitors and they are kept by airport authorities. The move to ten from this summer allows the information to be compatible with the FBI database where they will be stored. Civil liberty groups warned that law-biding travellers could become the victims of a false match and predicted that airport queues would treble as a result of the scheme. A spokesman for the US Department of Homeland Security said, 'This is about stopping crime and about national security after 9/11.'

Radio related topics;- where E2K leads, others follow;- a while ago I had a bit of a rant about the so-called "low energy" electric lamps, more technically known as compact fluorescents with an electronic ballast, which the bloody politicians are trying to foist on us on the grounds that they more efficient at converting electrical energy into light when compared with the traditional tungsten filament lamp which has been around for more than a hundred years. The trouble with the "low energy" lamps is that the electronic ballast, which operates on a switch-mode principle, is a source of radio frequency interference which spreads right across the short-wave spectrum. Notwithstanding all that the politicians are said to be planning a massive tax on filament lamps to dissuade the public from using them. So it was good to see in the January issue of *Monitoring Monthly* Dave Roberts in his "Scanning Update" column having a bit of a winge on the subject having come to the same conclusions about r.f. interference that the rest of us have. "The problem is that many of the new type bulbs create horrendous interference right across the spectrum and you can tell when they are about to die because they create even more noise". Yep, that's about right - although I don't know about the last bit because I've never held onto one for long enough to find out! There has even been talk that filament lamps will be outlawed altogether in the not too distant future and that soon it will be illegal to manufacture or offer them for sale in the E.U. - shades of Prohibition in 1920's America here! Perhaps there will be bootleggers working away with a glass blower's furnace, a high-vacuum pump and a machine to wind up the tungsten for the filaments as they toil away making the banned light bulbs. I am laying in my own stock of filament lamps in case they are no longer available in a year or two; 60 watt and 100 watt pearl glass, bayonet cap;- £1.49 for a pack of four from Woolworths.

STOP PRESS;- Lightbulbs - the latest! As if to emphasise that this madness is not just a British phenomenon I picked up my copy of today's, i.e. February - 21, *Daily Mail* while taking a break from typing this and saw the following story with the headline, "Australia is to switch off the traditional lightbulb";- "Australia is switching its lightbulbs in an attempt to cut greenhouse gasses. The country will be the first to ban incandescent bulbs in favour of energy efficient fluorescent lighting. Its government said yesterday that lightbulbs, a staple of homes and buildings for 125 years, would be phased out by 2009. Environment minister Malcolm Turnbull said, 'By that stage you simply won't be able to buy incandescent lightbulbs because they won't meet the energy standard'.....Mr. Turnbull said that the banning of incandescent bulbs would cut 800,000 tons from Australia's greenhouse gas emissions by 2012." So there you have it. Australians always used to regarded as rugged individualist no-nonsense types, but if they stand for this load of old *taurus excrementum* it will prove that they have become just as wimpish as most of the population of our own country. [Plondon: *Must mention here that the ballast units in the base can be removed from the lamp assembly and either repaired – apparently a certain cap inside fails, not the tube itself – or as one E2k member has done [no names here Derek] the unit can be used to start other tubes in different applications. The known member has made himself a UV box for developing PCBs – excellent recycling, Green Britain will give you a putty medal for sure!*]

Bad news for the scanner brigade;- those whose interest in the radio hobby is centred on the world of vhf and uhf communications where the scanner reigns supreme are in for a somewhat leaner time. They will already be aware that police 2-way radio systems have changed from the nfm or am used for many years to a digital mode which cannot be intercepted by your usual Yaesu or Bearcat. Things are about to get worse, from the scanner's point of view, according to a short piece in the *Daily Telegraph* of 27-December-06. "£400 million system will let 999 crews talk to each other", says the headline of the article by Celia Hall, Medical Editor. "Nearly £400 million is being spent on a radio system for all NHS ambulance trusts which will enable crews to talk to police and fire services in emergencies. The long-awaited details of the arrangement from the Department of Health follows criticism after the London bombings when poor communications forced emergency personnel to use their own mobile phones. The contract with Sepura is worth £390 million over 13 years. It is the same digital radio system, called Airwave, that is being introduced by police forces. It will improve ambulance communications in rural areas as well as communication between the front line services. Lord Warner, the health minister, said, '.....Digital technology means a more secure system with less interference and improved interpretability between trusts and the other emergency services'.....The digital radios will start to be distributed in the new year and the programme will be completed by September 2008. More than 18,000 of the radios have been ordered for hand-held use for motorbikes, ambulances and control rooms. The system will operate on the O2/Airwave network."

And another story with a radio theme which might have long term implications, from the *Daily Express* of 5-January by Elisa Roche, Showbusiness editor, "Is it curtains for the West End musical? British musicals face extinction because of plans to sell off wireless microphone technology to the highest bidder. The discreet headsets worn by performers, which improve sound quality for audiences watching stage productions, operate on a lucrative radio band potentially worth billions of pounds. But theatre impresario Andrew Lloyd Webber says the regulation body risks crippling the UK's thriving entertainment industry if it sells off the frequency at rates unaffordable to most production companies. 'If wireless technology is sold off, the long and short of it would mean the end of musical theatre in this country', he warned yesterday. 'If wireless microphones go, the quality of most modern performances will go with it - they are now an intrinsic part of every major show. If the mikes went, it would be like going back to the Stone Age'. He added that even his own hugely successful theatre company, the Really Useful Group, would 'not be able to compete' with the soaring rates.....Ofcom said last month that the radio spectrum would be sold and made available for any purpose in 2012. But only cash-rich mobile-phone companies and other multi-national businesses would have the money to snap up the expensive technology".

Broadcast radio news;- George Galloway, Respect Party Member of Parliament for the Bethnal Green and Bow district of London, continues with his evening job as presenter of a weekend late-evening phone-in, "The Mother of all Talk Shows" on the commercial "Talk Sport" station. Indeed, Mr. Galloway's broadcasting hours have been increased in recent weeks following the tragic death of veteran late night phone-in host Mike Dicken who was killed in a car crash shortly before Christmas, his obituary having appeared in the *Daily Telegraph* of 21-December, which necessitated a hasty re-arrangement of the station's late night Friday and Saturday staffing schedules.

It is difficult to know what to make of old George; on the one hand he is no friend of Blair or his successor-in waiting - "Two cheeks of the same backside", as George so eloquently describes them, or of the aristocratic Old Etonian leader of the opposition "Born with two silver spoons in his mouth". He certainly has strong opinions on a wide range of topics and it is a refreshing change to hear such views aired in public. But then again, when one recalls his appearance on a chav reality TV show a couple of years ago, in the course of which he acted out the part of a pet cat belonging to an ageing actress - and we are reminded of that incident by the signature tune of George's phone-in which is based on the theme from the old "Top Cat" cartoon TV show - it is, perhaps, difficult to take seriously his views on such grown-up subjects as the situation in Iraq, the Palestine/Israel question and the possible forthcoming US/UK/Israeli attack on Iran. But perhaps I am being too critical. He is certainly worth listening to and he has to be admired for the way he deals with the more hostile members of his listening audience. There is a small but steady stream of callers, or rather texters and e-mailers because in general they are not brave enough to pick up the phone and speak to him in person, who put forward the view that any disagreement with the Bush/Blair view of the Middle East situation is treason and that Mr. Galloway should be charged forthwith and that Britain should immediately send many more troops to Iraq and should also join with America in an attack on Iran and so on and so on. George's reply to this, which I have heard him say on several occasions is nothing short of brilliant.. "Oh, so you think we should attack Iran straight away; then I take it you'll be down at the Army recruiting office first thing in the morning to pick up your rifle and tin hat so you'll be one of the first to go in". Magic!

Now onto the rest from a variety of sources, including the irascible KW for which we apologise in advance and who we only allow because of his following amongst a certain enclave

Front Cover pic on NL38:

We received much feedback on the image, from members who necessarily remain 'Persons Anon.'

Anon 1:

"I noted with some interest the photo on the front cover of Issue 38 of two vehicles which you photographed outside the Royal Albert Hall during a recent event.

The vehicles in question look very like the modified DAF 45 vehicles that replaced the older Tactica vehicles, used in Northern Ireland since 1993. The only difference appears to be the lack of protective grilles on the windows, headlights and lightbar, although this may be an add-on specific to Northern Ireland. The vehicles were introduced under Operation Wedgewood and are affectionately known as 'Wedgies'.

Due to the similarity of the vehicles photographed to those described above, I would propose that it is possible the vehicles photographed may be EOD electronic countermeasures (ECM) vehicles. I'm not sure of the ECM arrangements of the new vehicles in Northern Ireland, but the old Tacticas certainly sported a number of aerials on the roof of the vehicle."

Anon 2:

"The cover photo is not of a radio intercept vehicle. It is a photograph of a jamming vehicle, used to jam IED's. The BR used something similar in NI, but built into a trailer, and looked like a Pneumatic Drill Compressor. In fact it did contain a generator, as it needed to generate a few kW of RF to wipe out remote triggering devices.

If they set one of those vehicles to work, I doubt very much if anything with any form of RF circuits in it, would work."

Yet another Anon sends his thoughts.....

"Liked the opening pic of the two vehicles. When I first saw it I immediately screamed "591 SU". Don't even know if this unit still exists but they were a commint unit. Always seemed to have a presence whenever and wherever there was a joint services exercise. Usually out of sight but within range. Apart from such routine tasks they would happily respond to requests from the UK law enforcement agency to perform somewhat more sensitive duties well within the capabilities of their equipment at that time.

Of course, during my time such vehicles, referred to as RVT's were the usual olive drab finish and looked something like the proverbial brick toilet block mounted on a flat bed truck! If the vehicles in the pic' were from such a unit then they have happily been brought up to date."

More Feedback..... Again necessarily Anon:

Just been reading the news letter [NL38], and found the Marconi One story quite amusing. The other article about HA III triggered off a few memories of 14 and 20 Sigs. I'll explain, and I reckon this will amuse you....

During one particular exercise in the 80's, we had been given an order to move our Det up to a Comcen site, about 4 or 5Km West of the E.German border. (I think it was close to Hesse). A Detachment of 14 Sigs had set up next to a Radio Relay Commcen belonging to 20 Sigs.

When we arrived on site, we duly set up our kit, but everything was quiet.

The NVA and Russians had been out practising their movements the previous week, and as it was a Sunday evening, things were, well, dull, to say the least.

I wandered over to the Commcen to see the OC (a Major) sitting down, feet up on a desk, listening to Radio 4 (Long Wave), well trying to listen ! I went over to the SSM, and arranged some PoL we needed, and went back to the Det. By this time the Rover was set up with all the home comforts, and we settled down to what we thought would be a quiet night.

A few moments after sitting down for a brew, we heard an almighty shout of "Will you switch that f***** thing off !" from the OC. A minute or two later all our kit lit up like a Christmas Tree, and we scrambled back into the Det. I'd never seen so many hits, the Auto Recorders went into over drive, the Racals doing Signal Strength summersaults and the Bid flashing away.

The SSM screamed "Crash Out", and boy, did we move!

This is what had happen:

Some joker in the EW Det, had accidentally switched from Low Power (Peace) to High Power (War) for a few seconds, to see if "anything would happen". The EW Det received a Jamtask, and duly commenced the Jam.

Meanwhile the OC was trying to listen to Radio 4...and couldn't ! (The Jamtask was VHF, but since it was pulsed, in the Kw Region, and the OC's Radio was a pocket "£2.99 from Tandy" job, he had no chance of receiving anything...)

The Jamtask had been picked up by NVA monitoring, and THEY had switched on a load of their Tac Jammers (why our kit lit up like a Christmas Tree). The OC nearly fell over the SSM, who had panic'd, screaming crash out, because all the auto jamtask kit was going nuts, because THEY had started jamming US. (Jamming was regarded as almost a strategic weapon, and an indication of rapid advancement of Soviet Bloc forces into the West).

Afterwards, we had discovered some assets of theirs that we had never seen before

[Thanks all Anons!]

The trawler Gaul H243 lost circa 8th February 1974

The loss of the Gaul has been steeped with mystery and indeed two programmes on television prompted a further investigation into the loss. Far from being on a SIGINT mission the Gaul sank after being overcome by mountainous waves. [Offal Chute to blame, I recall].

There is an interesting blogspot that has been noticed by one of our net surfers and worthy of a visit of anyone with an interest in the loss of the Gaul: <http://the-trawler-gaul.blogspot.com/>

Special Relationship 2

Here we are again. We all know that when we go to America [*God forbid*] the dabs we supply for their security are kept. But did you know all this is coupled with Credit Card and Email account detail and shared with the FBI? Apparently all Brits visiting the US have their Credit Card detail and email accounts inspected thanks to a deal with the EU made in the Autumn of 2006 - that's 'fall' to our American colleagues and dabs are fingerprints.

Critics are already stating that law abiding Brits will be turned into terror suspects and Shami Chakrabati of Liberty has already hinted at this. So you go to America and get treated like a criminal and they expect you to spend money there - that's incredible.

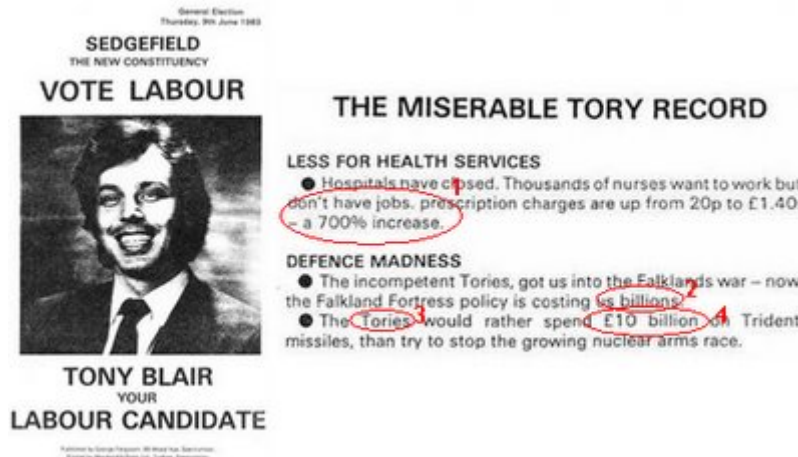
*Thanks Ken. I have no wish to go anywhere near America as many know. One of my wife's relatives unfortunately ended up there 'in transit' due to plane trouble and was *required* to provide all her details and dabs just for the pleasure of just sitting there waiting for a plane.*

My Mrs stated 'I'd hate Paul to have to go there like that because he wouldn't give them the time of day let alone his details and would no doubt end up in trouble.'

She's quite right. Like many Brits I am not interested in visiting the US nor letting them have my prints and I certainly wouldn't give them easily. If they slung me out of their country I didn't want to be in they would be doing me a favour.

Any of our American readership know what happens when you refuse to give the details?

I came across this little bombshell whilst surfing the net; what a turncoat we have as a PM.



1983	vs	2007
Lots of Nurses made redundant		
Prescription Charges £6.65 [£6.85 shortly]		
Falklands vs Iraq and Afghanistan?		
Trident: £165 Billion.		

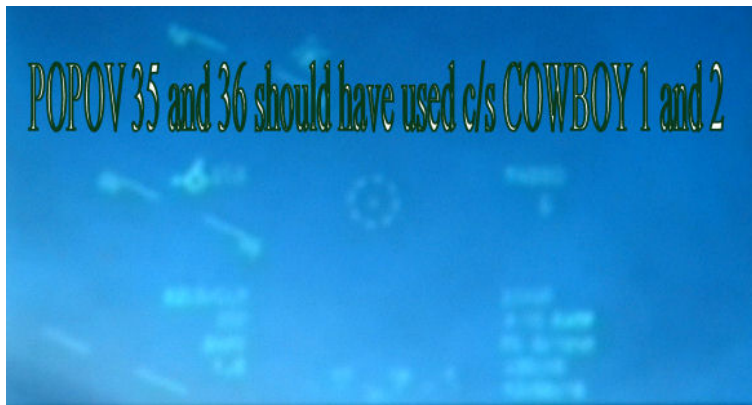
And here's the latest from Mr Bliar, whose offspring are not serving soldiers: "On the part of the military, they need to accept that in a volunteer armed force, conflict and casualty may be part of what they are called upon to face."

Well it might be more acceptable if they went there with the proper kit and some back up when they return rather than being left to their own devices but what right does Bliar have to comment on something he'll never know about first hand? Most of our MPs apparently have never had a proper job [John Prescott excluded from that remark] and most have never experienced military service [no names, no pack drill for those few who have] so have no idea how the proper world, as experienced by the grafting millions [and the scrounging, parasitic millions] works.

[Bliar copies the American experience at the drop of the hat - how about copying the splendid aftercare of their veterans then?]

Heard on BBC London: "It took a 1000 years to develop the British culture and only 10 years for Blair to destroy it!"

Then we have the unfortunate blue on blue death of a serving soldier. Below is the *classified* HUD as seen in one of the offending A10's. [Less the suggested c/s] claimed as being 'secret' and available on a PC game called 'A10 Pilot.'



HUD from A10 [less the suggested c/s of course]



POPOV36 or Gus KOHNTOPP

See actual footage: <http://www.thesun.co.uk/article/0,,11021-10043,00.html>

and there's more: <http://www.thesun.co.uk/article/0,,2007060452,00.html>

Why did the US actually suppress its release? More to the point why did the MoD assist the US to do this and why haven't the two absolute cowboys who couldn't see a piece of orange cloth as a recognition aid instead of 'orange rockets' been bollocked officially.? And how many orange dayglo missiles has anybody seen?

If our blokes displayed such recklessness they'd be on a charge 'tuit suit' and officials sent to America to try to sort things out. Not so if you're American. Lies, cover ups and the MoD [probably with HMG's blessing] cheat and lie to assist them.

There is no honour in this country anymore as our Govt supports two cowboys who were simply out for 'a kill' and who displayed reckless abandon, followed no rules and committed one mistake after another. Note: 190th Expeditionary Fighter Squadron of the Idaho Air National Guard sent a military pilot of 20 years to fly his first combat mission and cock it right up.

In America the pilot Colonel Gus KOHNTOPP and his equally piss-poor wingman were cleared of any wrong doing in an inquiry behind closed doors – no doubt got another medal to bang on their chests [the blue on blue award for killing efficiency] actually the Bronze Star . It took a transmission from a British base to totally abort operations in the area – well done Costa58 – sounded well professional too.

Well done Oxfordshire Deputy Coroner for demanding this footage and well done the Sun newspaper for ensuring it entered the public domain. Particularly well done the bloke who leaked it – good drills mate! [*Good copy Ken – the Kiwi on my train put it simply – I hear a noise downstairs, go down with a lump of wood and take out the intruder only to discover it is my youngster who rose to get some water. I go to jail*]. The same Deputy Coroner has been told his Contract won't be renewed either – I'll bet it won't! Encouraging news is that the British Army Board found that procedures were not followed. Then add the fact that the US inquiry stated the pilots "followed the procedures and processes for engaging targets." Didn't bother to identify the target though did they? Cowboys through and through who played a computer game for real and disregarded human life for the sake of a kill and a good story to tell back home. I'll bet the buggers don't tell it as it really was.

In mitigation for the American Air Force professionalism here's a quote from KOHNTOPP, "You have to live with your actions so make them worthwhile to your loved ones and this great nation."

And here's another great quote, "My best piloting experience has been flying the A10 in Iraqi Freedom." And that is a true sign of how remorseful this example of America's best really is.

Incidentally, how many of you saw the awful news item featuring KOHNTOPP's neighbour, now known to be:

Mr Eldon Anderson
6090 N Royal Park Ave, Boise,
ID 83713
Tel: (208) 938-9092

Who had the utter cheek to say of Britain. "You are going to go merrily sucking your thumb like you did in World War II." Anderson continued. "We don't need your damn help. We need your cooperation, that's all we need out of you guys. It's hard even to get that. We know you can't shoot, move and communicate, but we'd sure as hell like to have your cooperation anyway." *Did a lot for Anglo-American relationship that did*. Especially when us Brits know from hard experience that the Americans were late for both world wars as their Governments had to be 'persuaded' to participate. Mr Eldon Anderson should remember that. [*Idiots like this ruin the relationship between decent Americans and Brits with their lone arrogant gobshite statements*].

You can reckon on this 'special relationship' ala Bliar/Bush changing drastically with the next PM, whoever that might be and America going it alone with Iran and note the 'bombing plans drawn up' as mentioned in British media. [If it's true].

Interestingly our comic Al Murray 'The Pub Landlord' summed up American military problems in his ITV programme along the lines of, "It's obvious to me ladies and gentleman. If you want to fight a land battle you send in the army. A sea battle you send in the Marines. What does Bush send to Iraq? The marines, soldiers of the sea! Who do we send to do a proper job? The Desert Rats! Ladies and gentlemen; the clues in the name."

Whilst searching for a lightbulb for the bathroom at 0355z 07/02 I heard a bloke who calls himself 'Big George' talking to a caller to his BBC94.9 radio station describe Mayor Livingstone as 'The Sheriff of Nottingham; likening his taxes to those taken [and they are taken under threat today] rather than the Robin Hood he thinks he is. So who is Robin Hood today then – things are pretty bad when letter bombs are sent to Congestion Charge Offices – Capita – in Central London and another device [good word 'device' coined during the troubles in NI late 60's onwards] addressed to the boss of Speed Check services who operate the o/h speed calculating cameras. People are getting fed up with being ripped off and it turns out there were five more that have not been reported.....

Then two young boys are shot in London [Trident again] and a 21 yo stabbed to death – all within four days. A 25 yo fights for her life after suffering head injuries after being attacked and robbed by two youths on mopeds.

Then it is announced that taught languages such as French and German will be replaced with Arabic [which one?], Urdu or Spanish. Where's the teachers coming from and why?

Then we see an OAP who is forking out on a new treatment for Angina because the NHS in her area [London] won't fund it.

Remember, 'I'll turn the National Health Service around, I'll revolutionise education and, wait for it, 'Tough on Crime, Tough on the causes of Crime.'

A majority of youth cannot speak the Queen's English correctly, assume pathetic accents and spend their time loafing around on our streets spending their benefit payments on booze, which once inebriate they then piss out into shop doorways. Well Mr Bliar you have ruined Britain, what it was, what it stood for and how it achieved it.

You carry on apologising to all the unwanted persons in this Country for slavery and empire and all the things that we led the world in and you turn the country over to the pink panty wearing, tofu eating morons who dream up more ineffectual PC bollocks so that we don't offend those who are a minority and who are allowed to dictate their wants on the fine nation of Brits. Those wants are backed by stupid laws that do no good to anyone and which stir unrest on the streets. We've even had marches to apologise for slavery and its effects today [For F...k sake what is wrong with this country – move on, forget the past. Even the BBC bored viewers stupid with an Inside Out that supported lefty views with a British born black female named Claire something or the other rattling on about this nonsense. Don't see the African tribes who sold other Africans into slavery apologising. Don't forget it was the Brits who actually had slavery abolished.

Think I'll start a movement to get an apology from the Italians for all the straight roads their Roman forefathers built over Britain in 56AD]. What was interesting was the theory that Brit born black lads do not get on because they have an inherent trait to rebel thanks to their very past past of slavery. Don't think it's lack of a stable family background then? You don't see this nonsense in the West Indies – they have proper discipline and respect there, even for single parent families, but then again they don't have a govt that rewards underaged or single mothers with benefits galore and creamed off with the Council funded accommodation do they? And why were those who landed in the 1950's civil and nice people? How comes their immediate offspring didn't aspire to all this crap – it was about discipline and values, something there is little of in Britain today.

Then our world statesman PM, who does nothing for Britain, visits HAMAS to persuade them to accept Israel. Now why didn't he go to Israel and try to get them to accept HAMAS instead? Either way, he has the same chance of doing that as he has of becoming PM of Britain again – thankfully none at all!

Tony Bliar makes Neville Chamberlain look like a national hero – and I demonstrated against him chanting 'Down the drain with Chamberlain.' My Dad [*That's KW's Dad*]. Tnx KW

Just loved the paranoid portrayal of TB in ITV's recent 'Confessions of a Diary Secretary.' What a real bloke John Prescott was portrayed as and spot on for Tracey Temple -- this is proper politics uncovered! With bints like that about I too want to be the DPM!!!

Interesting piece from 'The Times' 12/01/07:

<http://www.timesonline.co.uk/article/0,,11069-2543995,00.html>

Mystery spies use coins with hidden radios to track US defence experts
Tim Reid in Washington [Tnx E]

Spy gadgets worthy of a James Bond film have been planted by foreign agents on high-level US arms contractors, the Pentagon revealed yesterday. American security experts said that coins containing tiny radio transmitters were slipped into the pockets of American government defence contractors while they travelled on sensitive missions in Canada, raising suspicions that a foreign power — possibly China or Russia — was behind the scheme.

"On at least three separate occasions between October 2005 and January 2006, cleared defence contractors' employees travelling through Canada have discovered radio frequency transmitters embedded in Canadian coins placed on their persons," the report, by the counter-intelligence office of the US Defence Security Service, said.

The Canadian Government, which works closely with the US on espionage matters, is not considered a suspect and has denied involvement. "The issue has just come to our attention," a spokeswoman for the Canadian Security Intelligence Service said.

China and Russia have sophisticated industrial and military espionage operations in the US and Canada.

Last year a Chinese spy, Ko-Suen "Bill" Moo, pleaded guilty in a US court to charges that he tried to buy military parts and weapons, including an F16 fighter jet engine and cruise missiles, from an undercover FBI agent. Experts said that the coins might be used to track the movements of the US defence contractors whose job it is to buy and sell military technology.

Whom the contractors have met, and when and where, would be valuable information for a foreign spy service, analysts said. The Pentagon report was based on an analysis of 971 "suspicious contacts" reported by US defence contractors during 2005.

It states that foreign-hosted conventions, seminars and exhibits are popular venues for spies to steal military secrets.

One obvious problem with the tracker coins that the spies who planted them face is the risk that the targeted defence contractor might spend them on buying a cup of coffee or a newspaper.

The report did not state what type of Canadian coins were used. The country's largest is its \$2 "Toonie," which is more than 1in (2.5cm) across and thick enough to hide a tiny transmitter.

The Pentagon report also listed other acts of espionage, including the case of a female foreign spy who seduced an American to steal his computer passwords.

The Pentagon report did not name any countries suspected of being behind the spying. But the reason many analysts suspect China is that it has become the leading espionage operator in the US. <http://www.timesonline.co.uk/article/0,,11069-2543995,00.html>

US Embassy attacked with a rocket.

The US Embassy in Athens, Greece has been reported as having been attacked by a rocket.

PLondon used to monitor its comms – its call sign KWS78 was often heard on beacons and the odd tty slip would be read.

Brits Home from Iraq and other matters

The news media buzzed with excitement with news that a large contingency of our troops were to be pulled out of Iraq; the Times suggesting 1500 troops could be home by summer. These withdrawals were linked to Iraq security. Mr Blair was to say that Operation Sinbad, the security and reconstruction plan conducted in Basra for the last 6 months has been a success. All this whilst the shaven chimp sends more than 21,000 reinforcements to Baghdad. Whilst Mr Blair's decision could be seen to be demonstrating his independence from the US most will see it as total Blair bollocks; the same time as the 1500 come home from Iraq a 1,000 extra go to Afghanistan.

One such soldier going to Iraq is Prince Harry or 2Lt Cornet Wales, to be precise. Lots of media chatter on this as they tried to open up debates as to whether HRH should be allowed to go and do his duty. Well done that man who goes now places the same burden of parentage on Prince Charles and HM Queen as exists amongst all parents of service men and women worldwide. It is worth remembering that 2Lt Cornet Wales has taken an oath of allegiance to the Queen and to serve the Nation.

This oath has been taken by myself, PLondon, DoK and a fair few others of ENIGMA 2000 members. What is to be noted that Mr Blair has not taken any such oath in connection with military service and neither have any of his immediate family.

Perhaps if they had, our forces would be getting all they need including the recognition of the service of a fallen comrade with our brave PM going to Brize Norton to show respect as our dead arrive, coffins draped with the Union Flag.

Well, there's something else that Blair is keeping under his hat as he kowtows to the will of the shaven chimp.

Much to the disgust of many, and not just the Brits, SDI aka Star Wars rears its ugly head again. Secret talks are being held to 'explore' the possibilities of basing US interceptors on British soil. So we get to fall under the safety umbrella of the US? What we have to ask is what will we really gain from this venture. The answer is obvious; when push comes to shove and the interceptors need to be used the US will not give a monkey flying f**k where the bits drop as long as it isn't on US soil.

All from secret talks from Mr Blair's angle. Wonder what US Dept or Industrial he will be working for when we are finally rid of our notably inept PM. [Same description heard from the mouth of a bereaved parent on BBC1's Panorama whose son had died in the service of this country].

Cheapo oil means cheap London Buses [Those on benefits only]

Mayor Livingstone has secured cheap fuel from Petroleos de Venezuela Europa to the extent that he will be able to provide half price travel, via his Oyster card, to those on benefits from July 2007. The deal is worth savings of £16 million, which will fund the savings on fares for around 250,000 persons on benefit. Note that the rest of us poor buggers who actually go to work to keep those on benefits in the high standard of free living they enjoy get jack shit once again. No choice for us, we have to get out of bed and pay the council tax and fares - we have the 'work ethic' unlike the false claimants who just sit back and play the system. So well done Mr Livingstone, more Labour cobblers at the cost of decent working folk.

HJH's E2K WATCH

A GREEK CROCUS

Strange that after all this time has elapsed since the fall of the Iron Curtain which divided the two Germanys, along, of course with the rest of Europe, indeed the world, that events which took place at that time still have the power to shock people, and break lives. SIRA, a German acronym for System Information und Recherche der Aufklärung, is the body which has electronically transcribed, documented, and recorded the files of the STASI, which as we all know was the East German Intelligence organisation which ran the many facets of espionage in that country.

Translated, it means System for Information and Research into Intelligence. Nor has it limited its considerable activities to recording and cataloguing. It has also delved into decryption of the files of the former STASI which it held. As a direct result of the information gleaned from these files, the identities of several non DDR nationals have come to light as having been in the pay of the STASI as active agents of the former GDR who were actively spying, and very successfully, on behalf of the now defunct East Germany.

Socrates Kokkalis is a Greek national who is a telecommunications, software, and electronic gaming tycoon. He also grew up, and was educated in, East Germany. The files, which took eight years to decrypt, reveal information from some 4,500 different sources, together with the code names of those sources, cover a time period from 1969 to 1989. And it is these files which are about to give Mr Kokkalis his biggest nightmare for what this author believes is quite a while!! The German authorities have sent a file of evidence to the Athens Public Prosecutor, Mr. Dimitris Papangelopoulos. The evidence contained in this, although thus far undisclosed, is serious and convincing enough to warrant the filing of 6 counts of felony against Kokkalis, one of which is espionage on behalf of the former East Germany. As well as providing intelligence on Western technology to his STASI case officer handlers, he provided information on the following prominent Greek politicians. Andreas Papandreu, the Greek prime minister in power at the material time, as well as Constantinos Mitsotakis, the leader of the opposition party, New Democracy. Other prominent Greek politicians were subjected to his surveillance and reported on to his DDR case officers.

On initially being recruited, Kokkalis was given the code name Kaskade, later to be changed to Krokus. Some of the intelligence which he provided was of a sufficiently high grade as to be sent on to Moscow on the day following its receipt from Athens. Mr. Kokkalis is obviously not deficient in the genitalia department, having last year filed a civil case in Piraeus, Greece, against the authors and publishers of articles which mentioned the possibility of his being a STASI collaborator. The court in Piraeus which heard the case threw it out, saying the reports were fully corroborated.

Surely something from which Mr. Kokkalis can take about as much comfort as the news from the USA about the American couple who have just received 17 and 21 years in prison. Both were convicted on espionage charges. The source of the evidence on which they were tried and convicted? Yes, you razor witted E2K readers have got it again! It was the SIRA files!

BUBBLE ABOUT TO BURST----

Still in the land of the Bubbles (ask Paul Effendi, or any sad git who watches East Enders!) the result of a recent trial in Halkida, Greece, will not be good news to the gentleman in the article above. Five men, a Greek and four Poles, were convicted of smuggling 55 illegal immigrants into Greek territorial waters from Turkey. On a sailboat they attempted to smuggle the 55 illegals ashore, only to be thwarted by a storm. In the finest tradition of people smugglers, they abandoned ship, and took to a dinghy. Again hitting a storm, they had to call on the Greek Coastguard for assistance.

Each was sentenced to 10 years in prison, and fined 290,000 Euros each. And the name of the boat on which this odyssey took place? Thought you'd never ask!! The good ship "Scrooge" What else!

OPERATION JALLAA: Input [2] noted – thanks. Output [0] given.

E: Tnx yr logs. Sri yr xper – hp al srtld sn

ENIGMA 2000 Group:

<http://groups.yahoo.com/group/enigma2000>

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://dSPACE.dial.pipex.com/brogers/page2.html>

RELEVANT WEB SITES

<http://www.eyespyimag.com/>

<http://www.monitoringmonthly.co.uk>

<http://www.espionageinfo.com/>

http://www.theregister.co.uk/2007/02/05/army_tech_obsolete/

PLEASE SEND ALL CONTRIBUTIONS TO ARRIVE NO LATER THAN 7 DAYS BEFORE THE LAST DAY OF THE MONTH.

Please note that all items intended for publication in the next ENIGMA 2000 newsletter should be received in good time. Please send your articles, news items and requests via: enigma2000-owner@yahoogroups.com

Please indicate if you wish to be contacted direct.

If you wish to be credited with your article please indicate, otherwise all work will be treated as 'Anon'.

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Any problems with days – look it up here:

2007

JANUARY	FEBRUARY	MARCH
M 1 8 15 22 29 *	M * 5 12 19 26 *	M * 5 12 19 26 *
T 2 9 16 23 30 *	T * 6 13 20 27 *	T * 6 13 20 27 *
W 3 10 17 24 31 *	W * 7 14 21 28 *	W * 7 14 21 28 *
T 4 11 18 25 * *	T 1 8 15 22 * *	T 1 8 15 22 29 *
F 5 12 19 26 * *	F 2 9 16 23 * *	F 2 9 16 23 30 *
S 6 13 20 27 * *	S 3 10 17 24 * *	S 3 10 17 24 31 *
S 7 14 21 28 * *	S 4 11 18 25 * *	S 4 11 18 25 * *
APRIL	MAY	JUNE
M * 2 9 16 23 30	M * 7 14 21 28 *	M * 4 11 18 25 *
T * 3 10 17 24 *	T 1 8 15 22 29 *	T * 5 12 19 26 *
W * 4 11 18 25 *	W 2 9 16 23 30 *	W * 6 13 20 27 *
T * 5 12 19 26 *	T 3 10 17 24 31 *	T * 7 14 21 28 *
F * 6 13 20 27 *	F 4 11 18 25 * *	F 1 8 15 22 29 *
S * 7 14 21 28 *	S 5 12 19 26 * *	S 2 9 16 23 30 *
S 1 8 15 22 29 *	S 6 13 20 27 * *	S 3 10 17 24 * *
JULY	AUGUST	SEPTEMBER
M * 2 9 16 23 30	M * 6 13 20 27 *	M * 3 10 17 24 *
T * 3 10 17 24 31	T * 7 14 21 28 *	T * 4 11 18 25 *
W * 4 11 18 25 *	W 1 8 15 22 29 *	W * 5 12 19 26 *
T * 5 12 19 26 *	T 2 9 16 23 30 *	T * 6 13 20 27 *
F * 6 13 20 27 *	F 3 10 17 24 31 *	F * 7 14 21 28 *
S * 7 14 21 28 *	S 4 11 18 25 * *	S 1 8 15 22 29 *
S 1 8 15 22 29 *	S 5 12 19 26 * *	S 2 9 16 23 30 *
OCTOBER	NOVEMBER	DECEMBER
M 1 8 15 22 29 *	M * 5 12 19 26 *	M * 3 10 17 24 31
T 2 9 16 23 30 *	T * 6 13 20 27 *	T * 4 11 18 25 *
W 3 10 17 24 31 *	W * 7 14 21 28 *	W * 5 12 19 26 *
T 4 11 18 25 * *	T 1 8 15 22 29 *	T * 6 13 20 27 *
F 5 12 19 26 * *	F 2 9 16 23 30 *	F * 7 14 21 28 *
S 6 13 20 27 * *	S 3 10 17 24 * *	S 1 8 15 22 29 *
S 7 14 21 28 * *	S 4 11 18 25 * *	S 2 9 16 23 30 *

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	cuattre	cinq	six	sept	huit	neuf
German[^]	null	eins	zwei	drei	vier	fünf	sechs	sieben	acht	neun
Spanish	zero	uno	dos	tres	cuatro	cinco	seis	siete	ocho	nueve
Czech	nula	jeden	dva	tr [^] i	chtyr [^] i	pêt	shest	sedm	osm	devêt
Polish	nula	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	pât'	shest'	sedem	osem	devât'
* 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	sêdam	ôsam	dêve: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.

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	khamisa	sitta	saba	tamanya	tissa

Numeral systems used on selected Slavic Stations

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

Notes:

- * Nula heard as nul
- [^] Jeden heard as yedinar
- ‘ Tri heard as ‘she’
- ~ Osoom often heard as bosoom or vosoom.

E03 Lincolnshire Poacher Prediction Chart

GMT/UTC	Sun	Mon	Tues	Wed	Thurs	Fri	Sat
1200	A3	A3	A3	A3	A3	A3	A3
1300	A3	A3	A3	A3	A3	A3	A3
1400	B1	C1	A2	Y	A3	A3	C3
1500	D	B2	G1	A5	Z1	A3	D
1600	F1	D	B2	G2	C2	A4	D
1700	D	F6	D	A1	J1	A6	B2
1800	E2	E2	X	F5	A1	J1	A6
1900	F5	E2	F5	J2	F5	B2	J1
2000	E1	F5	E2	F5	F5	F5	F3
2100	X	F4	E2	E2	X	F5	F5
2200	J1	F2	E1	E2	E2	X	F5

A1: 16475 14487 12603	B1: 15682 14487 11545	F1: 11545 10426 8464	X: 9251 6959 5746
A2: 16314 14487 12603	B2: 15682 13375 11545	F2: 11545 10426 6959	Y: 20707 19452 18233
A3: 16084 15682 14487		F3: 11545 10426 6900	Z: 17417 14487 12603
A4: 16084 14487 12603	C1: 14487 12603 10426	F4: 11545 9251 7887	Z1: 19452 17417 16084
A5: 16084 14487 11545	C2: 14487 12603 8464	F5: 11545 9251 6959	
A6: 16084 13375 11545	C3: 14487 11545 10426	F6: 11545 8464 6959	
	D : 13375 12603 11545	G1: 10426 8464 7755	
		G2: 10426 7755 6485	
	E1: 12603 10426 8464	J1: 8464 6485 5422	
	E2: 12603 9251 7337	J2: 8464 6485 5746	
	E3: 9251 7337 5746	J3: 8464 6475 5422	

E03a Cherry Ripe Prediction Chart

GMT/UTC	Freqs	Sun	Mon	Tues	Wed	Thu	Fri	Sat
0000	A		*	*	*	*	*	
0100	B		*	*	*	*	*	
0200	Z1		*	*	*	*	*	
0500	Z3		^	^	^	^	^	
0600	B3		^	^	^	^	^	
1000	C		*	*	*	*	*	
1100	D		*	*	*	*	*	
1200	B1		*	*	*	*	*	
1300	X		*	*	*	*	*	
2200	B2	*	*	*	*	*		
2300	B	*	*	*	*	*		

A: 14730 18865	B : 18864 21866	C: 20474 23461	X: 12590 14355
	B1: 18864 23461		
	B2: 18864 24644	D: 23461 18864	
	B3: 18465 22645		Z1: 18065
			Z3: 18570

Slots marked ^ are undergoing investigation from observers located in Australia/New Zealand

[Tnx FSNL for revision E03v9]

mon	tue	wed	thu	fri	sat	sun	UTC	Fam	Stn	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	ID	Remarks
			x				1830	1a	G06	4519 271		5935 597 (ex 579)		6887 842				5935 579		4519 271		see left	since 05/01 fortnightly
x	x						1900	1a	G06	5110	5455	6875	8055	10850	11120	10720	10540	8170	6865	5415	5190	308	1. Monday of the month, Tue repeat only in case of msg on Mo, New: 01/05- Old: 02/02-12/04
				x			1930	1a	G06	4792 436		5442 947		5934 218				5442 947		4792 436		see left	since 04/01 fortnightly
x	x						2000	1a	G06	4025	4465	5190	6930	8170	9240	9070	8140	6865	5210	4597	3845	308	1. Monday of the month, Tue repeat only in case of msg on Mo, New: 01/05- Old: 02/02-12/04
					x		2020/20 25 2120/21 25	1a	G06	4580	5360	6785	7680	9115	10310	9265	9120	6835	5210	4585	3845	777 (2001) 943 (2003) 178 (2005)	2.+3. Sat. of the month 03/01-08/05
					x		2200	1a	G06	4441	6834 4441	5252		4642		7607	6834		4642		531 531 843	2004 2005 2006 1.+3. Sat of the month?	

Italics
bold

needs observation
Changes

mon	tue	wed	thu	fri	sat	sun	UTC	Fam	Stn	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	ID for "/00"	Last Log	Remarks
x							0700	3	M03	4505		4958			5082			4958		4505		040	12/06	
	x						0730	3	M03	4840		4870			5082			4870		4840		041	12/06	
		x					0730	3	M03	8088		6941			6797			6941		8088		508	12/06	
				x			0730	3	M03	4909		6814			6252			6814		4909		040	10/06	
	x						0745	3	M03	11468 (486?)		10728			10246			10728		11468 (486?)		503	09/06	inactive?
			x				0800	3	E11						7663							232	08/06	since 03/04, former fqs: 10050, 10125 inactive?
				x			0800	3	M03	4909		4958			6814			4958		4909		040/041	01/07	
				x			0800	3	E11						8091							232	01/06	since 04/04, former fqs: 11116, 11260
					x		0800	3	M03	7377		8187			9339			8187		7377		624	09/06	inactive?
	x						0815	3	M03	4968		5082			6814			5082		4968		211	09/06	inactive?
			x				0845	3	M03	12660		12397			12202			12397		12660		503	12/06	since 02/06
			x	x			0845	3	E11	8800								9576		8800		232	02/06	since 09/06
x							0900	3	M03	10210		7772			7439			7772		10210		976	11/06	
		x					0900	3	S11A	9610		7377			6524			7377		9610		215	01/07	Until 02/06 M03 w/ 214
x	x	x	x	x	x	x	0915	3	E11	7317		8196			9576			8196		7317		284	01/07	Until 06/06 M03
		x					0945	3	M03	5358		5815			6252			5815		5358		211	09/06	heard in 07/06 on 6552 inactive?
			x				1000	3	M03	10384		8760			7984			8760		10384		976	01/07	
	x			x			1030	3	E11	7749		8759			9610			8759		7749		312	01/07	since 05/02 heard in 07/06 as M03
			x				1030	3	S11A	9950		7984			7377			7984		9950		214/215	01/07	since 03/06 Repeat of 0900Z? Since 11/06 M03 observed here!
		x					1100	3	E11	9339		9610			9901			9610		9339		186	01/07	since 06/05
				x			1100	3	M03	9443		7984			8759			7984		9443		508	11/06	
				x			1200	3	E11	8544		9130			10125			9130		8544		187	08/06	since 08/04 inactive?
	x			x			1230	3	E11	7439		8544			9448			8544		7439		312	11/06	since 07/01
	x						1300	3	E11	8088		8800			9950			8800		8088		183	08/06	former fq: 8033, until 10/02 Thu too inactive?
			x	x			1330	3	E11						9179							182	08/06	since 08/05 inactive?
x	x	x	x	x	x	x	1630	3	E11	4181		6252			7377			6252		4181		287	01/07	heard in 07/06 at 1730Z on 7737, until 08/06 M03
		x					2100	3	S11A		4016				5358				4016			971	10/06	since 06/03 until 04/03 972 inactive?

mon	tue	wed	thu	fri	sat	sun	UTC	Fam	Stn	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	ID for "/00"	Last Log	Remarks
		x	x				1800	3	G11	<i>5782</i> 31.1.07 121/21	<i>5779</i> 1.2.07 121/21													
x							1830	3	M03			4009												
x	x		x			x	1830	3	M03			4073			4783									
x							1910	3	E11									4505 4.9.06 121/19						
			x	x			1910	3	M03					4909	4909									
				x			1910	3	M03					4073										
				x			1920	3	M03					4909										
		x					1930	3	M03				4009											
			x				1930	3	M03				4073											
			x	x			1940	3	M03					5176	5176									
				x			2000	3	M03			5176												
				x			2000	3	E11									4505 1.9.06 121/29						
		x					2025	3	E11								4114 121/15							
	x				x		2030	3	M03			4356												
	x						2030	3	E11		4840 7.2.06 121/25													
			x				2030	3	E11		4840 9.2.06 121/25													
				x			2030	3	E11		5082 10.2.06 121/25													
	x						2100	3	E11		5082 7.2.06 121/26													
		x					2100	3	E11		5082 8.2.06 121/27													
			x				2100	3	E11		5028 9.2.06 121/27													
				x			2100	3	E11		4840 10.2.06 121/25													

The Crazy World of "Agent 121"

Italics
bold

needs observation
Changes

S06 Regular skeds ending slow

Note 1: there are no slow ending transmissions on Saturday or Sunday.

Note 2: the wed 8.30 S06 on 7335 is a special / different one as it uses the same freq for the whole year.

Day	time (utc)	jan feb nov dec	mar apr sep oct	may jun jul aug	ID
mon	12.00	xxxxx	9145	10230	831
mon	12.10	xxxxx	11460	12165	831
mon	13.00	8420	xxxxx	xxxxx	831
mon	13.10	10635	xxxxx	xxxxx	831
mon	16.00	7436	8040	9256	176
mon	16.10	6668	6830	7889	176
tue	07.00	5250	5760	?	374
tue	07.15	6320	6930	6780	374
tue	08.00	5810	7320	7245	418
tue	08.10	7440	9840	9670	418
tue	08.00	10265	11635	14373	352
tue	08.10	9135	10420	12935	352
tue	15.00	5070	6464	6666	537
tue	15.10	6337	7245	7744	537
tue	18.00	5625	5680	5745 ?	624
tue	18.10	6605	6815	?	624
wed	07.00	12365	13420	14580	729
wed	07.10	14280	15380	16020	729
wed	08.20	6880	7605	6755	471
wed	08.30	7840	9255	?	471
wed	08.30	7335	7335	7335	745
wed	08.40	11830	11830	11830	745
wed	08.40	9260	9480	10120	328
wed	08.50	11415	11040	9670	328
wed	12.00			7765	481
wed	12.10			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	09.00	9750			167
thu	09.10	10580			167
thu	10.00	8535	9225	10175	895
thu	10.10	10480	11515	12215	895
thu	12.30	7865	8650	9255	314
thu	12.40	5310	7385	7630	314
thu	16.00		12560	10410	425
thu	16.10	14615 / 9950	13065	9690	425
fri	06.00	5460	6340	8340	934
fri	06.10	?	5470	?	934
fri	06.00	xxxxx	7795	7845	196
fri	06.10	xxxxx	8695	9125	196
fri	07.00	7150	xxxxx	xxxxx	196
fri	07.10	8215	xxxxx	xxxxx	196
fri	09.30	11780 / 9445	12140	10290	516
fri	09.40	12570 / 10195	13515	9655	516

moves 1 hr early
May to October

1 hr later in Oct

S06 and E06 both ending fast. Regular skeds.

Day	time (utc)	2006 december	2007 january	2007 february	2007 march	ID nov	ID dec	ID jan	ID feb	ID mar	week
mon	09.30			9225	9225 ?				480	480	?
mon E06	20.00	5785	5265	not heard			729	512			1 & 3
mon E06	21.00	4 mhz	4542	not heard		xxx	729	512			1 & 3
mon	20.15	xxxxx	xxxxx	xxxxx	xxxxx	xxx	xxx	xxx	xxx	xxx	
mon	21.15	6800	6860	6780	6980	893	210	368	702	491	2 & 4
mon	22.15	5163	5210	5190	5358	893	210	368	702	491	2 & 4
tue	14.00	9260	9190	11420	14390	493	493	493	493	493	every
tue E06	14.10	12220	not heard	not heard		705	705	705	705	705	4th
tue	15.00	7790	7650	9260	12200	493	493	493	493	493	every
tue	16.30	6860	6830	6910	search	192	847	516	497		every
tue	17.30	5270	5450	5380	search	192	847	516	497		every
tue	18.00			5740					918	918	1 & 2
tue E06	19.10				5795 ?					654 ?	3rd
tue E06	20.00				8015 ?					357 ?	3rd
tue E06	20.00	6810	6780	6840	search	813	652	826	190		2 & 4
tue E06	20.10				4480 ?					654 ?	3rd
tue E06	21.00	5175	5420	5360	search	813	652	826	190		2 & 4
wed	09.30			9225	9225 ?				480	480	?
wed	13.00			8130	8130				480	480	?
wed E06	14.00	xxxxx	xxxxx	xxxxx	xxxxx	xxx	xxx	xxx	xxx	xxx	2 & 4
wed E06	14.05	6mhz?	8020	9070	search	457	457	457	457	457	1st
wed E06	15.05	5780	6830	7890	search	457	457	457	457	457	1st
wed E06	15.00	8030	7680	9220	search	309	825	192	604		2 & 4
wed E06	16.00	6780	5190	7710	search	309	825	192	604		2 & 4
wed	18.00		3610	3595	5735 ?			269	269	269	every
wed E06	19.15			?					203		3
wed E06	20.15			4035					203		3
thu E06	05.00										every
thu E06	06.00				13420 ?					345?	every
thu E06	20.30	4836	4836		5186	321	321	321	321	891	1 & 3
thu E06	21.00	5190	5785	5780	search	782	496	812	647		4th
thu E06	22.00	4035	4487	4630	search	782	496	812	647		4th
fri	14.45	8080					102	102	102	102	1
fri E06	21.30	4760	4760	4760	5197	472	472	472	472	634	1 & 3
sat	16.00	3887	3887		5463/6788?	108	108	754	754?	754?	every
sun E06	18.30	5785	5810	5380	6860	690	690	690	690	690	every
sun E06	19.30	4515	4570	4465	5405	690	690	690	690	690	every
updated											
28th Feb											

Current Cuban Skeds Heard From 0000-0700 UTC
This covers 1900-0200 local EDT in the USA
(January-February 2007)

SUN	0000	0100	0200	0300	0400	0500	0600	0700
								<i>8097(P)</i>
								<i>9062(P)</i>
					10235(P)	9062(S)	6826(P)	6786(S)

MON	0000	0100	0200	0300	0400	0500	0600	0700
				<i>4174(P)</i>	<i>4035(S)</i>	<i>10446(P)</i>	<i>9331(S)</i>	<i>8136(P)</i>
				<i>6855(P)</i>	<i>6768(S)</i>			
			<i>12165(P)</i>	<i>10446(S)</i>				
						5898(P)	5800(S)	

						9062(P)	7887(S)	
--	--	--	--	--	--	---------	---------	--

TUE	0000	0100	0200	0300	0400	0500	0600	0700
		<i>3389(P)</i>	<i>3292(S)</i>	<i>4017(P)</i>	<i>3926(S)</i>			<i>8186(P)</i>
							6826(P)	6786(S)
				10125(P)		9062(P)	7887(S)	

			4027(P)	3292(S)	5898(P)	5800(S)		
--	--	--	---------	---------	---------	---------	--	--

WED	0000	0100	0200	0300	0400	0500	0600	0700
				<i>4479(P)</i>	<i>4329(S)</i>	<i>3360(P)</i>	<i>4035(S)</i>	<i>8136(P)</i>
			<i>12180(P)</i>	<i>10446(S)</i>				
								<i>9153(P)</i>

			12215(P)	13378(S)	9062()			
--	--	--	----------	----------	--------	--	--	--

THUR	0000	0100	0200	0300	0400	0500	0600	0700
					<i>9323()</i>	<i>8097()</i>		<i>8186(P)</i>
							6826(P)	6786(S)
						5898(P)	5800(S)	

			10445()			9062(P)	7887(S)	
--	--	--	---------	--	--	---------	---------	--

FRI	0000	0100	0200	0300	0400	0500	0600	0700
		<i>4028(P)</i>	<i>5417(S)</i>		<i>4479(P)</i>	<i>4028(S)</i>	<i>4028()</i>	<i>8136(P)</i>
				12215(P)	13378(S)	13378()		<i>9153(P)</i>

SAT	0000	0100	0200	0300	0400	0500	0600	0700
		<i>6768(P)</i>	<i>5762(S)</i>	<i>4028(P)</i>	<i>3292(S)</i>	<i>5883()</i>		<i>8186(P)</i>
		<i>5135(P)</i>	<i>4028(S)</i>		<i>5762()</i>	<i>3025()</i>		
						9063(P)	7887(S)	

			10127()	11565()	5898(P)	5800(S)		
--	--	--	---------	---------	---------	---------	--	--

Notes:

Skeds in MCW mode indicated in shaded cell.

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Frequencies listed without (), denotes a possible sked.

--Updated February 26, 2007--

Current Cuban Skeds Heard From 0800-1500 UTC
This covers 0300-1000 local EDT in the USA
(January-February 2007)

SUN	0800	0900	1000	1100	1200	1300	1400	1500
	7681(S)	9040(P)	9240(S)					7887(P)
		8136()						5773(P)
								11544(P)
								4034(P)
		5759(P)	5800(S)					8067(P)

MON	0800	0900	1000	1100	1200	1300	1400	1500
	7555(S)	9040(P)	9240(S)	3292(P)	4035(S)			
								5772(P)
								11544(P)
		6786(P)	7726(S)					4034(P)
	8186(P)	9063(S)				7519(P)	6867(S)	8067(P)

TUE	0800	0900	1000	1100	1200	1300	1400	1500
	7580(S)	9040(P)	9240(S)					
								5772(P)
								11544(P)
			9323(P)	10345(S)		5116(P)	5134(S)	4034(P)
		5759(P)	5800(S)				7579()	8067(P)

WED	0800	0900	1000	1100	1200	1300	1400	1500
	7555(S)	9040(P)	9240(S)	3360(P)	4035(S)			
								5761(P)
	9063(S)	6786(P)	7726(S)					4034(P)
	8186(P)	9063(S)				5761(P)	5883(S)	8067(P)

THUR	0800	0900	1000	1100	1200	1300	1400	1500
	7580(S)	9040(P)	9240(S)					
								5772(P)
								11544(P)
			9237(P)	10446(S)		5761(P)	5883(S)	4034(P)
		5759(P)	5800(S)			5134(P)	5799(S)	8067(P)

FRI	0800	0900	1000	1100	1200	1300	1400	1500
		9040(P)	9240(S)	3245(P)	4035(S)	9152(P)	10126(S)	
	7555(S)							
								5771(P)
								11544(P)
						5134(P)	5417(S)	4034(P)
	9063(S)	6786(P)	7726(S)			10268(P)	10834(S)	8067(P)

SAT	0800	0900	1000	1100	1200	1300	1400	1500
	7580(S)	9040(P)	9240(S)					
			4035(P)	4507(S)				
								5771(P)
			9323(P)	10344(S)				11544(P)
	8186(P)	9063(S)	3025(P)	4478(S)				4034(P)
		6786(P)	7726(S)	8136(P)	9152(S)			8067(P)

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Current Cuban Skeds Heard From 1600-2300 UTC
This covers 1100-1800 local EDT in the USA
(January-February 2007)

SUN	1600	1700	1800	1900	2000	2100	2200	2300
	<i>16178(P)</i>	<i>17436(S)</i>			<i>7887(P)</i>	<i>6855(S)</i>		
	<i>6867(S)</i>							
	<i>4506(S)</i>							
	<i>9012(S)</i>		<i>8097(P)</i>	<i>8097(S)</i>		<i>7974(P)</i>	<i>7481(S)</i>	
MON	1600	1700	1800	1900	2000	2100	2200	2300
	<i>16178(P)</i>	<i>17436(S)</i>			<i>7887(P)</i>	<i>6855(S)</i>		
	<i>6867(S)</i>							
				<i>6786(P)</i>	<i>7554(S)</i>			
	<i>4506(S)</i>			<i>7680(P)</i>	<i>8009(S)</i>		<i>7519(P)</i>	<i>8009(S)</i>
	<i>9012(S)</i>		<i>8097(P)</i>	<i>8097(S)</i>		<i>7974(P)</i>	<i>7481(S)</i>	
TUE	1600	1700	1800	1900	2000	2100	2200	2300
	<i>16178(P)</i>	<i>17436(S)</i>			<i>7887(P)</i>	<i>6855(S)</i>		
	<i>6867(S)</i>							
	<i>4506(S)</i>			<i>6786(P)</i>	<i>7554(S)</i>		<i>7526(P)</i>	<i>8135(S)</i>
	<i>9012(S)</i>		<i>8097(P)</i>	<i>8097(S)</i>		<i>7974(P)</i>	<i>7481(S)</i>	
WED	1600	1700	1800	1900	2000	2100	2200	2300
	<i>16178(P)</i>	<i>17436(S)</i>			<i>7887(P)</i>	<i>6855(S)</i>		
	<i>6855(S)</i>							
				<i>6786(P)</i>	<i>7554(S)</i>			
	<i>4506(S)</i>			<i>7680(P)</i>	<i>8009(S)</i>		<i>7519(P)</i>	<i>8009(S)</i>
	<i>9012(S)</i>		<i>8097(P)</i>	<i>8097(S)</i>		<i>6932(P)</i>	<i>6854(S)</i>	
THUR	1600	1700	1800	1900	2000	2100	2200	2300
	<i>16178(P)</i>	<i>17436(S)</i>			<i>7887(P)</i>	<i>6855(S)</i>		
	<i>6867(S)</i>							
	<i>4506(S)</i>			<i>6786(P)</i>	<i>7554(S)</i>		<i>8009(P)</i>	<i>8135(S)</i>
	<i>9012(S)</i>		<i>8097(P)</i>	<i>8097(S)</i>		<i>6932(P)</i>	<i>6854(S)</i>	
FRI	1600	1700	1800	1900	2000	2100	2200	2300
	<i>16178(P)</i>	<i>17436(S)</i>			<i>7887(P)</i>	<i>6855(S)</i>		
	<i>6867(S)</i>							
	<i>9060(P)</i>	<i>9323(S)</i>		<i>6786(P)</i>	<i>7554(S)</i>			
	<i>4506(S)</i>			<i>7680(P)</i>	<i>8009(S)</i>		<i>7519(P)</i>	<i>8135(S)</i>
	<i>9012(S)</i>		<i>8097(P)</i>	<i>8097(S)</i>		<i>7974(P)</i>	<i>7481(S)</i>	
SAT	1600	1700	1800	1900	2000	2100	2200	2300
	<i>16178(P)</i>	<i>17436(S)</i>			<i>7887(P)</i>	<i>6855(S)</i>		
	<i>6867(S)</i>							
	<i>4506(S)</i>							
	<i>9012(S)</i>		<i>8097(P)</i>	<i>8097(S)</i>		<i>7974(P)</i>	<i>7481(S)</i>	

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--Updated February 26, 2006--

Please send any additions, deletions or corrections to:

mmlaten@prodigy.net

Indicate if it is V2 or M8, time, frequency and callups if possible.

Include any other observations or remarks of interest.

Cuban Desk Contributors:

Albino Dragon, Jon-FL, JPL, MS, Westt1us

Thanks Mark and Contributors.

December to March end; Master List of known BC Frequencies received in Great Britain

	<u>CUBA</u>	<u>CZECH</u>	<u>EGYPT</u>	<u>INDIA</u>	<u>RUSSIA</u>
0000		11615	11950		
0100	6000 6180				
0200	6000		7250 7270		
0300	6000		7270		7180
0400					7350
0500	6060				7150
0600	6060				
0700					
0800		7345 9860			
0900		11600		11620 15260	7360
1000		9880 15710	13710 17800	9440 17510 17800 17895	10260
1100	12000	7345 11640	9885 11640		
1200		21745	17835	11710	9800 9865 11500 12025
1300			12050	11775 15050	9885 15460
1400		11600		11620 13710	5905
1500		5930		7270 9260 11585	5895 5925 5970 7360
1600			6230 9365	11620 13770	5910 6130 7230
1700		5930	6230 6235	7410 9440 9950 11620	7320 7360
1800		5930		7410 9445 13605	5895 6055 6175 7105 7290 7420
1900			9990 12050	7410 9445 9835 9950	6090 6175 7390 7105 7290 7320
2000	11760 15230	5930		7410 9905 9445 13605	5895 6130 7300 7420
2100	11760	5430 9430	9990	7380 9445 9910 9950 11620	7330
2200	15320	5935	9990	7410 9445 9910 9950 11620	
2300	9550	5930			

An Insight into E25 Transmissions by Manolis of Greece.

Presented with ENIGMA 2000 Newsletter 39

© Remains with author 5th March, 2007

أروح لمين وأقول يا مين ينصفني منك
ما هو أنت فرحي وانت جرحي وكله منك
أروح لمين

كلمة ونظرة عين والقسمه رياهم جمعوا سوا قلبين والحب مناهم
وبين ليالي المنى خدني الهوى وياه وكان وصالك هنا وكنت بتمنى
وبعد حبي شغلت قلبي وقسيت عليه
وكان منايا يدوم هنايا ما دمش ليه
لوعني حبك واليوم في بعدك بيفوت سنين
أروح لمين

* * *

يطول بعدك.. وأعيش بعدك على شوقي وأشجاني
ما بين ماضي.. ماهوش راضي يسسليني في حرمانني
وأبات أنمي.. أنا ودمعي واخبي دمع العين
واداري من اللايمين ليلمحوا عنه ويشمتوا فيه
ولحد امتي حنبي أنت والشمتانين

أروح لمين

* * *

أروح لمين ومين حيرحم أسايا وأقول يا مين ومين حيسمع ندايا
طول ما انت غايب ما ليش حبايب في الدنيا ديه
والفكر سارح والهجر جارج يا نور عنه
شوف دمعي جاري سهران في ناري ولا انت داري بالسهرانين
أروح لمين

An insight into E25 transmissions.

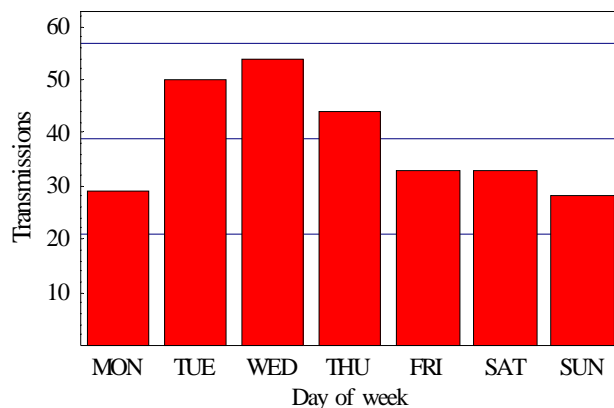
Until now E25 was one of the vague Numbers Stations probably due to the lack of a schedule and difficulties in reception. Structure begins to appear if we examine more carefully one of the few Enigmas who still use live broadcasts and a musical intro. When you know what to look for, chances are increasing to listen and interpret E25 transmissions.

Logs used for the following analysis

I used mostly my personal logs while it was more difficult to recover older logs. When I was a novice Numbers listener my logbooks were untidy. Some logs from the Spy Numbers database¹ were used (those considered accurate & complete). Total logs used: 271 logged from 22/8/2003 since 25/2/2007.

Schedule

There is a preferred time frame, when transmissions occur. Currently it is from 1200z to 1300z. Note also that nowadays (February 2007) some music-only transmissions appear in the mornings. All E25 transmissions are logged on 9450 kHz AM mode, the only known frequency. This is within the 31m Broadcast Band, so sometimes there is interference from “normal” shortwave stations. It appears to be a linkage between Agent ID and preferred broadcast times. We will discuss this issue later. Statistically there is no significant preference what day of the week a broadcast may occur as it can be seen in the following histogram:



The horizontal lines denote the $\pm 3\sigma$ range; the middle horizontal line is the expected value. It is very important when making a histogram of the occurrence of numbers (or letters) an anomaly to have statistical significance, must be well outside the uncertainty Statistics allows. This “uncertainty” is greater as fewer samples (i.e. groups) we have. As an extreme example of a wrong usage of a histogram with low total counts, is throwing a dice six times, and if every number doesn’t appear only once (the expected value), we naively conclude the dice is unfair.

A trend appears with more transmissions on Tuesday, Wednesday, Thursday, but all count values are within the $\pm 3\sigma$ range. So it is wise to keep looking for E25 transmissions every day and not misguided by this trend.

¹ <http://www.spynumbers.com/numbersDB/>

Language

The calling session is always in English, but the messages can be in Arabic. There is a connection between Agent ID and message language. Operators have an Egyptian accent and it is interesting that the word “Repeat” used when a repetition of a message is going to start, sounds like “Rebeat”.

Tuning session

Operators sometimes use music from the late Egyptian singer Umm Kulthum². Two songs are the most common, “Arouh Le Min” (Where Should I Go)³ and “Inte Omri” (You Are My life)⁴. Songs are played from a random point and not from the beginning. The original songs are lengthy so it is unlikely to hear the whole of them. Variations in playback speed noted in the past suggests playback from tape. Recently the Microsoft Windows sound “ding.wav” heard twice and some jumps in the playback speed noted. Maybe E25 made a step towards the digital era.

A transmission does not always start with music. A 1000 Hz tone may be used alone, or followed by music. Sometimes the announcer just starts calling the agent(s). There is a connection between what song is used (if any) and the agent ID which we discuss later.

Signal strength

There is a signal drop when Arabic messages are to be transmitted. Then the entire session has lower signal strength. A listener in Germany reports a drop from S9+ to S8 and in my location it is about 10 dB lower (not an accurate measurement). This suggests that messages in Arabic are beamed to different regions than messages in English.

At my listening location (Greece), E25 is the strongest of the Enigmas. Whatever the station is on 9450 kHz, E25 when present is always the most powerful. E25 can be heard in Germany, Sweden (via an Internet tuner), Spain, and UK and recently managed to reach USA. The most important factor affecting reception in W. Europe is interference from broadcast stations and the low audio level of the transmissions. (If your AM filter is wide or not sharp, you may hear E11 interfering from 9443 kHz!)

Operators

The whole procedure is live, (no automated machine voice used) and the operators are male, having an Egyptian accent, as a fellow E25 fan indicates. Many operator voices have been heard so far. They are prone to errors, probably because of the confusion between English (left to right) and Arabic (right to left) style of writing/reading. While only one person is behind the microphone, in the past switching to another operator happened *during* the transmission.

Calling session

The operator calls one or more agents with their 3-figure ID. If the ID is followed by 1 or 2 digit number(s), no message will follow for the agent. The string of numbers

² [http://en.wikipedia.org/wiki/Umm_Kulthum_\(singer\)](http://en.wikipedia.org/wiki/Umm_Kulthum_(singer)), see also the site dedicated to Umm Kulthum, <http://almashriq.hiof.no/egypt/700/780/umKoulthoum/>

³ <http://almashriq.hiof.no/egypt/700/780/umKoulthoum/Songs/arooh.html>

⁴ <http://www.shira.net/inte-omri.htm>

following agent's ID may play a "control" purpose. Of course there can be a mixed situation, 3-figure agents' ID then 3-figure ID followed by a "control" string. For example:

1. "780" repeated: Agent "780" will receive a message.
2. "780 788 12" or "555 557 12 13 14": A message will follow for Agent "555" but not for Agent "557". The string "12 13 14" for Agent "557" seems to serve a "control" purpose still unknown. Maybe is similar with E10 xxx2 and xxx1 calls. (No link with E10 is implied of course.)

It is possible two or more agents receive a control string. Also, the rare case *two* agents receive the same message. I wonder how this can be possible if every agent has his/her own decryption means.

The numbers are spoken one by one i.e. "780 788 12" is "seven eight zero, seven eight eight, one, two". Because it is a live transmission, the gaps between words are variable, so "12" can be confused with "1","2".

Agent IDs encountered

English messages:

222, 275, 440, 449, 555, 730, 780, 788, 906.

Arabic messages and less signal strength:

835, 837.

Control messages:

200, 209, 220, 227, 230, 270, 277, 430, 557, 559, 737, 785, 788, 905, 909.

Control messages and less signal strength:

830, 833, 837.

IDs marked in red have appeared a few times or only once. Agents 8xx may reside in a different location requiring different power/beaming.

Messages

Usually the messages are short i.e. having low group count. The longest one logged consisted of 21 groups. Each group has four numbers. In a typical English message, the 3rd and last groups are the same. In Arabic messages the 2nd and last-minus-one groups are the same. The repeated group seems to have a special structure i.e. they are not random 4f numbers.

A great amount of info is contained in the group *before* the repeated group (the second in English messages or the first in Arabic messages). Take for example the message sent on 4/12/2006, 1242z to Agent "780",

9509 2001 0311 3516 3405 5834 2573 7621 1173 0311.

The 3rd group is the same as the last one (0311). Take the second group, 2001. The last two digits, if reversed, give the group count: 01 → 10 which is indeed equal to the group count.

The first 2 digits, if reversed, give something that looks like a message serial number *per agent*. So 20 → 02, meaning that it is the second message for Agent “780”. These counters start again occasionally, not necessarily when reaching 99.

In the following table you can see the logged messages for Agent “780”. Always the 3rd and the last group is the same (underlined). **The serial is extracted by reversing the first 2 digits of the 2nd group.** You can easily check that the last two digits of the second group, if reversed, give the group count. This statement holds for all the messages of the table.

Agent 780 (English Messages)				
Date	Time	ID	Serial	Message
22/2/2007	12:46	780 788	13	9211 3160 <u>6610</u> 3654 6216 <u>6610</u>
8/2/2007	12:44	780 788 27 28 785 29 30	12	As of 7/2
7/2/2007	12:41	780 788 27 28 785 29 30	12	1319 2160 <u>1111</u> 1754 2130 <u>1111</u>
6/2/2007	12:43	780 788 27 28 785 29 30	11	As of 31/1
5/2/2007	12:41	780 788 27 28 785 29 30	11	As of 31/1
4/2/2007	12:40	780 788 27 28 785 29 30	11	As of 31/1
1/2/2007	12:43	780 785 29 30 788 27 28	11	As of 31/1
31/1/2007	12:43	780 785 29 30 788 27 28	11	1310 1160 <u>1111</u> 1754 2130 <u>1111</u>
29/1/2007	12:42	780 30 29 788 28 27	9	9496 9080 <u>1831</u> 3673 1003 5721 2851 <u>1831</u>
24/1/2007	12:44	780	8	9609 <u>8012</u> <u>4151</u> 4029 8839 1795 3888 6815 2405 6746 0401 4243 3705 0571 9987 0787 6001 4103 1635 2916 <u>4151</u>
22/1/2007	12:36	780	7	As of 21/7
21/1/2007	12:41	780	7	9609 <u>7012</u> <u>4151</u> 4029 8839 1795 3888 6815 2405 6746 0401 4243 3705 0571 9987 0787 6001 4103 1635 2916 <u>4151</u>
17/1/2007	12:44	780 788 27	5	3909 5091 <u>5941</u> 5814 0798 7670 5335 7429 9312 9030 2737 7587 2909 0407 4494 6094 5598 9856 <u>5941</u>
9/12/2006	12:42	780	3	As of 7/12
7/12/2006	12:40	780	3	9919 3041 <u>3340</u> 1435 0174 4693 2918 3261 6456 8065 1745 8742 3774 <u>3340</u>
4/12/2006	12:41	780	2	9509 2001 <u>0311</u> 3516 3405 5834 2573 7621 1173 <u>0311</u>
3/12/2006	12:43	780	1	As of 30/11
1/12/2006	12:43	788 20 780	1	As of 30/11
30/11/2006	12:42	780	1	9509 1001 <u>0311</u> 3516 3405 5834 2573 7621 1173 <u>0311</u>
3/11/2006	12:42	780	13	2011 3101 <u>2790</u> 9476 1057 6217 7972 3875 7332 <u>2790</u>
4/10/2006	12:44	780	12	As of 3/10
3/10/2006	12:44	780	12	3805 2101 <u>6410</u> 2776 9818 9314 9661 8505 2273 <u>6410</u>
29/9/2006	12:51	780	11	<u>8290</u> 1111 <u>4890</u> 7363 6898 0988 1735 1804 0696 5808 <u>4890</u>
28/9/2006	12:45	780	11	<u>4290</u> 1111 <u>4890</u> 7363 6898 0988 1735 1804 0696 5808 <u>4890</u>
15/9/2005	11:47	780	1	9476 1001 <u>2210</u> 4463 3824 6493 5966 1725 9498 <u>2210</u>
11/10/2004	12:45	780	62	9855 2651 <u>3521</u> 0466 2552 5411 4990 7085 4519 5638 7734 0690 9773 4338 <u>3521</u>
17/2/2004	12:45	780	56	9549 6501 <u>0210</u> 3553 1254 7559 0481 6642 3755 <u>0210</u>
27/10/2003	12:43	780	53	As of 26/10
26/10/2003	12:41	780	53	9394 3531 <u>6210</u> 1467 6518 5690 2666 5481 4555 7854 3353 8560 <u>6210</u>

The messages of 28th and 29/9/2006 differ only in the first digit. Maybe this is a mistake of my part since their audio and accent are not the best, or of their part. Note also the increase of the serial occurred on 24/1 *without* changing the rest of the message.

The serial number is a handy tool to check if a message was not logged. For example I may missed a new message for “780” on 30/1/2007 since the serial number jumps from 9 on 29/1/2007 to 11 on 31/1/2007.

On the other hand, let’s see what happens with Agent “835”, who receives messages in Arabic language. Now the *second* and the *group before the last* is the same.

Agent 835 (Arabic messages)				
Date	Time	ID	Serial	Message
17/2/2007	12:09	835	12	2180 <u>6870</u> 7068 3524 6834 1069 <u>6870</u> 7473
16/2/2007	11:56	835	12	<u>2180</u> <u>6870</u> 7068 3524 6834 1069 <u>6870</u> 7473
15/2/2007	11:59	835	21	<u>1280</u> <u>6870</u> 7068 3524 6834 1069 <u>6870</u> 7473
7/2/2007	12:07	835 830 15	9	As of 4/2
6/2/2007	11:53	835	9	As of 4/2
5/2/2007	12:11	835	9	As of 4/2
4/2/2007	12:17	835	9	9001 <u>9260</u> 4621 1410 6729 8917 6419 2339 <u>9260</u> 7479
7/1/2007	12:14	835 837 1	7	As of 6/1
6/1/2007	12:14	835 830 10	7	7050 5555 5555 5555 5555
26/12/2006	12:11	835	6	6011 <u>0540</u> 3806 5367 9511 8520 1662 4187 9667 <u>0540</u> 8778
21/12/2006	12:14	837 835	5	5001 <u>4811</u> 1017 8166 4842 7706 8301 7982 <u>4811</u> 7372
6/12/2006	12:13	835 837 7	4	4001 <u>1220</u> 8261 8388 6789 6280 0948 8308 <u>1220</u> 3152
29/11/2006	12:12	835	3	3001 <u>1210</u> 3674 1962 6953 6822 7045 3434 <u>1210</u> 7271
27/11/2006	12:14	830 2 835	2	2041 <u>1210</u> 6424 2224 8715 6246 1067 6262 3177 0138 7610 0682 <u>1210</u> 7751
23/11/2006	12:22	835	1	1001 <u>3211</u> 2048 1268 8776 7227 7888 7565 <u>3211</u> 6707

This table has some interesting facts. Let’s examine the latest messages. While on 7/2/2007, the serial number for Agent “835” was 9, the serial jumped to 21 on 15/2/2007. So somehow I missed 11 messages within 7 days! Either heavy traffic occurred (which somehow not logged) for Agent “835” or the operator did a mistake. Next day the operator repeated the same message, except from the 2 digits which gives the serial number. He reversed the order so a more reasonable serial number (12) can be deduced. After that change, it is more likely I have missed two messages within seven days rather than eleven! This correction further supports my theory for the role of the first two digits of the second group (one before the repeated group).

Another interesting message appeared on 6/1/2007. The group “5555” repeated four times. But even for this message, the first group still gives the correct group count and message serial number.

The message formats described above are the most common for both English and Arabic messages. Occasionally other types of messages appear, like the aforementioned, for Agent “835”. To be more specific, some messages can have the following structures:

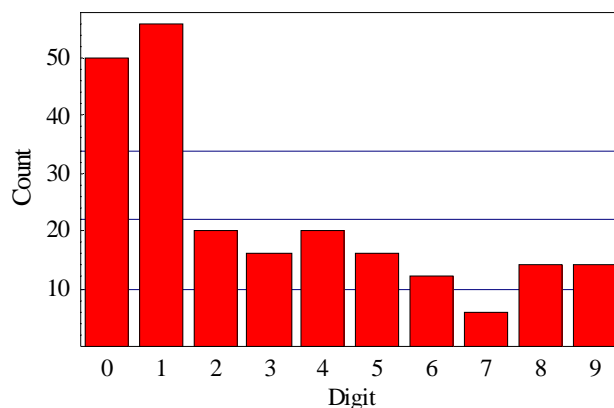
1. The first two are 4f groups and then a 3f group is repeated. Surprisingly, the rule which gives the group count and the serial holds for most of these messages. Example: 4415 1521 280x10. Group count test: $10 \cdot 280 + 2 = 12$ ($1521 \rightarrow 21 \rightarrow 12$).
2. Repetition of a 3f group. Example: 280 repeated. 280 is an agent's ID.
3. One 4f group and then a 4f group repeated. Example: 7050 5555 5555 5555 5555 to Agent "835" sent on 6 and 7/1/2006 in Arabic, mentioned above.
4. A rare type of a normal message plus a 3f group in the end. Example: 3334 3011 8620 7022 8203 9664 9047 1732 1704 9437 8620 449 sent to Agent "440" on 25/2/2005. 449 again is an agent's ID. Such message logged only once.

Repeated groups

Let's examine the structure of the repeated groups alone. They don't seem to be random, since one can see the pattern xx10, xx11, etc. There are 56 so far:

0210, 0311, 0410, 0540, 0690, 0831, 1111, 1210, 1220, 1510, 1680, 1831, 2110, 2210, 2310, 2311, 2380, 2790, 3010, 3211, 3310, 3340, 3510, 3521, 4151, 4410, 4421, 4440⁵, 4710, 4811, 4890, 5210, 5555⁶, 5941, 6110, 6150, 6210, 6410, 6610, 6870, 7510, 7951, 8110, 8210, 8580, 8620, 8831, 9010, 9020, 9110, 9160, 9260, 9410, 9431⁷, 9470, 9540.

Histogram: Occurrence of each digit within the repeated groups encountered so far.



The numbers 0 and 1 are well outside the $\pm 3\sigma$ limits, so the repeated groups aren't random. After all most of them are like xxx0 or xxx1.

What is the purpose of the repeated group? A group appearing in one agents' message isn't found in any other message, except the rare case of 2 agents having the same message in one transmission (2 IDs call then only one message). So this must be a sort of the codebook to be used for decoding, along with the key, which might be the remaining group (not the repeated or the one which gives the serial and group count, and assuming the groups within the repeated groups are the "message"). So far I

⁵ Extracted from a partial message.

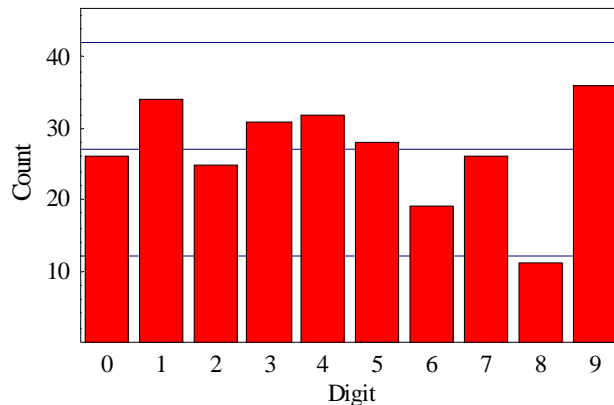
⁶ The repeated group in the message 7050 5555 5555 5555 5555 to Agent "835".

⁷ Ambiguity: 9431 or 4131.

haven't got a reasonable explanation. The fact they have the form xxx0 and xxx1 may suggest a similar treatment with the group giving the group count and serial number per agent.

The "Third" group

Well, this is actually the *first* group of the message or the *last* in the cases when the second group is the repeated. There is *only one* occurrence of an agent having the same such group with another agent. A histogram of the digits appeared in the "third" group follows:



The number "8" is just below the -3σ limit and raises some questions. More messages needed to see if that anomaly persists. Cryptanalysis is greedy regarding data! No good explanation for the purpose of this group, maybe it is used along with the repeated group, as a decode key.

Message statistics

I have collected 56 unique messages so far, *excluding* the special cases mentioned before, to avoid inserting outliers. A "message" is defined as the stream of groups within the repeated groups, which are marked in green in the following examples:

Serial: 51 → 15
 ↓ ↓
 Group count: 11 → 11
 ↓ ↓
 5221 5111 7951 **8900 0687 1345 7825 4144 4570 3026** 7951

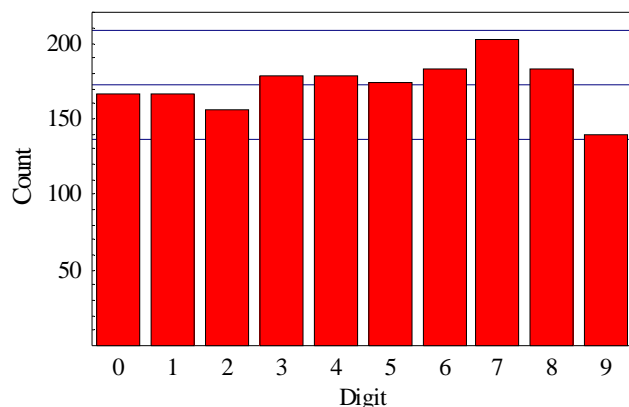
to Agent 555 sent on 26/12/2006 in English.

The other case is:

Serial: 30 → 03
 ↓ ↓
 Group count: 01 → 10
 ↓ ↓
 3001 1210 **3674 1962 6953 6822 7045 3434** 1210 7271

to Agent 835 sent on 29/11/2006 in Arabic.

A digit count histogram from the 56 unique messages gathered so far:



Things look random except number 9 which is just above the -3σ limit. Again, more unique messages required to see if the number 9 will continue having low count. I encourage the more experienced cryptanalysts to continue my simple analysis.

Messages in Arabic

Arabic messages are spoken in a different manner. Info regarding translation of numbers from Arabic to English can be found at several websites⁸. The operator first says the digits in pairs, and then one-by-one. The message recovered from the digit-by-digit format, have the typical appearance of the English messages, except that *the second group* is the same with *the group past the last*. So now someone can extract the group count and serial from the first group, and the last group is probably the “third” group of the English messages.

This is the 29/11/2006 message sent to Agent “835”:

3010/3001 2110/1210 6347/3674 9126/1962 9635/6953
8922/9822 7054/7045 4343/3434 2110/1210 2717/7271

6347/3674 is sent as "63", "47" and repeated as "3", "6", "7", "4". Note the reversals: $63 \rightarrow 3, 6$ and $47 \rightarrow 7, 4$. In Arabic language, letters are written from right-to-left but numbers are written from left-to-right. Probably that's why every group is spoken twice; first in pairs and then digit-by-digit to avoid confusion and increase redundancy. For example 6347/3674:

thalatha wa-sittun	sab'a wa-arba'un	thalatha	sitta	sab'a	arba'a
63	47	3	6	7	4

On the other hand there is the case 2110/1210:

wahed wa-'ishrun	wahid	sifr	wahid	ithnan	wahid	sifr
21	1	0	1	2	1	0

⁸ Visit http://arabic.speak7.com/arabic_numbers.htm with details regarding speaking/writing Arabic numbers and <http://www.zompist.com/numbers.shtml> with a massive database of the numbers 0-9 in over 5000 languages.

21	1	0	1	2	1	0
----	---	---	---	---	---	---

...and the 7th group 7054/7045:

sab'a	sifr	arba'a wa-khamsun	sab'a	sifr	arba'a	khamsa
7	0	54	7	0	4	5

This variation might happen to avoid confusion whenever the number 0 (sifr, from which the word *cipher* came) appears. The digits stay in the same order. One exception of the rule was 4/2/2007. The procedure was reversed, every group first delivered digit-by-digit and then in doublets.

Agents and their habits

Instead of presenting the entire series of logs for each agent, I'll summarize what I found most common for each agent, in a "fuzzy" manner. Note that the operators not necessarily start the session instantly. A blank carrier may be present several minutes before the operator starts calling or playing music. The notation xx45z means the operator started at the last quarter of the hour, etc.

Agent 200

Only one log, no tone/music, control message 200 5 209 4 sent on 12/3/2005, 1245z

Agent 209

Same as above.

Agent 220

Only 2 control messages, likes music, near xx45z.

Agent 222

No control messages, only full messages in English, probably likes "Arouh Le Min", xx45z.

Agent 227

Only control messages, probably likes "Arouh Le Min", xx45z.

Agent 230

Only control messages, probably likes "Arouh Le Min", xx15z.

Agent 270

Only control messages, tuning tone, xx00z.

Agent 275

No control messages, normal messages and some special ones like 4f, 4f, 4f repeated, 4f, 3f repeated (280), 3f repeated (also 280) all in English. Currently uses tuning tone and no music, xx00z. In the past no tuning tone/music.

Agent 277

Only control messages, tuning tone lately, plus music, xx00z.

Agent 430

Only one control message logged, 430 11 on 23/1/2006 1220z, no further info.

Agent 440

Messages in English, last quarter of the hour, special message 3334 3011 8620 7022 8203 9664 9047 1732 1704 9437 8620 449 sent on 25/2/2005, 1248z. No further info.

Agent 449

Partial log of message sent on 23/1/2006 1240z also to 440 (call 440 449).

Agent 555

Normal messages only, probably likes “Arouh Le Min”, near xx30z and a few logs as early as ~1100z back in 2004.

Agent 557

Only control messages, likes “Arouh Le Min”, near xx30z.

Agent 559

Only one log on 26/3/2004 1155z starting with “Arouh Le Min”, control message 559 7 557 8.

Agent 730

Only one log, 30/7/2004 1146z, no tone/music, with the message in English 5495 9501 2310 4455 0101 6656 8860 6207 4287 6057 which has no 2310 in the end but group count test holds.

Agent 737

Only one transmission logged, 31/10/2004 at 1244z, no tone/music, control message 737 17.

Agent 780

Messages in English only, probably likes... tone, xx45z.

Agent 785

Only control messages, likes... tone, xx45z.

Agent 788

Control messages, only one message in English together with 780 on 22/2/2007 (call 780 788) on 1246z, 9211 3160 6610 3654 6216 6610. Probably likes... tone, xx45z

Agent 830

Only control messages with reduced power/different beaming, likes “Inte Omri”, xx15z.

Agent 833

Only one control message logged on 1/7/2006 1122z, calling 833 66, with reduced power/different beaming. No further info.

Agent 835

Normal messages in Arabic with reduced power/different beaming, likes “Inte Omri”, xx15z. Two messages of the type 4f, 4f repeated: 7050 5555 5555 5555 5555, consistent with serial number and group count test.

Agent 837

Control messages with reduced power/different beaming, probably likes “Inte Omri”, xx15z, only one message in Arabic together with 835 on 21/12/2006 1214z: 835 837 message: 5001 4811 1017 8166 4842 7706 8301 7982 4811 7372.

Agent 905

Only control messages so far, xx30z, probably doesn't likes tone/music.

Agent 909

Only control messages (together with 905), probably doesn't likes tone/music, xx30z.

Some observations:

- Agents 55x likes “Arouh Le Min”.
- Agents 83x probably likes “Inte Omri”.
- Agents 73x and 90x probably have no intro at all.
- Agents 78x have test tone.
- Agents 83x have messages in Arabic with reduced power/different beaming, in the first quarter of the hour.
- Agents 555, 557 and 90x have messages in the half of the hour.
- Agents 22x and 7xx have transmissions in the last quarter of the hour.

Nowadays “in the hour” is 1200z. In the past that was 1100z or 1300z. Probably the time shift occurred to fit the transmissions into a time frame with less BC QRM or to accommodate the variations of the solar cycle.

Test transmissions

Since February 2007, music-only transmissions appear in the mornings (0700z-1000z) out of nowhere. Logs so far:

Date	Day	Start	End
24/2/2007	SAT	7:09	7:35
14/2/2007	WED	7:26	7:49
10/2/2007	SAT	7:27	7:34
11/2/2007	SUN	7:35	7:39
7/2/2007	WED	7:49	8:00
23/2/2007	FRI	7:50	8:14
22/2/2007	THU	7:50	8:08
6/2/2007	TUE	7:54	8:10
13/2/2007	TUE	8:15	8:33
9/2/2007	FRI	10:08	10:20

Umm Kulthum's songs are very popular and 9450 kHz is within 31m broadcast band, so these transmissions may not relate to E25. I have identified “Arouh Le Min” in one of these transmissions, and parts of the music played as intro by E25 in several others. What makes me sure that these are indeed related to E25, is the way the blank carrier jumps out of noise, the sound it makes and brief op chat heard in the background.

Operators chatting have also heard in the beginning of the usual E25 transmissions. Sound samples of adequate quality can be found in my blog⁹.

That concludes my short analysis of E25. I hope it answers some questions and provides the first steps for further understanding the structure of. I thank all of the E25 fans and other members of Enigma2000 group for providing their knowledge and suggestions. Unfortunately due to limited time available, as a supplement, only logs from Spy Numbers used since they were readily available. My older logs needed “recovery” from my old notebooks, so a lot of time spent. Good logging habits and a common language for exchanging our logs are a must.

The front page depicts the lyrics in Arabic of the song “Arouh Le Min”.

The last page depicts the lyrics of the song “Inte Omri”.

These images taken from the web pages regarding Umm Kulthum.

*Salam,
Manolis*

⁹ <http://hfsurfing.blogspot.com/>

أغنية
أنت عمري
تأليف أحمد شفيق كامل
ألحان محمد عبد الوهاب
مقام كرد
التي أنشدتها
أم كلثوم

رجعوني عنيك لأيام اللي راحوا علموني أندم على الماضي و جراحه
اللي شفته قبل ما تشوفك عنيه عمري ضايع يحسبوه إزاي علي؟

انت عمري اللي ابتدى بنورك صباحه

يا حبيبي قد إه من عمري راح ولا داق في الدنيا غير طعم الجراح ابتديت بلوقت اخاف لا العمر يجري التقاها في نور عنيك قلبي وفكري ليه ما قابلني هواك يا حبيبي بدري عمر ضايع يحسبوه إزاي علي؟	قذ إيه من عمري قبلك راح وعدّي ولا شاف القلب قبلك فرحة واحدة ابتديت بلوقت بس أحب عمري كل فرحة اشتاقها من قبلك خيالي يا حياة قلبي يا أغلى من حياتي اللي شفته قبل ما تشوفك عنيه
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انت عمري اللي ابتدى بنورك صباحه

من زمان والقلب شايلهم عشائك حنان قلبي اللي طال شوقه لحنانك هات ايديك تريح للمستهم ايديه هو اللي فاتنا يا حبيبي الروح شويه عمر ضايع يحسبوه إزاي علي؟	الليالي الحلوة والشوق والحب دوق معايا الحب دوق حبه بحبه من هات عنيك تسرح قي دنيتهم عنيه يا حبيبي تعالى وكفاية اللي فاتنا اللي شفته قبل ما تشوفك عنيه
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انت عمري اللي ابتدى بنورك صباحه

يا أحلى من أحلامي من الوجود وابعدني بعيد بعيد وأنا وانت ع الشوق تنام ليالينا سامحت بيك الزمن ونسيت معاك الشجن	يا أغلى من أيامي خدني لحنانك خدني بعيد بعيد أنا وانت ع الحب تصحى ايامنا صالحت بيك ايامي نستني بيك آلامي
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