

# ENIGMA 2000 NEWSLETTER



Embassy of the Islamic Republic of Iran, 16 Prince's Gate, London SW7 1PT

*Note the rotateable CCTV camera on the roof – there is another mounted by the chimney stack of Embassy of the Federal Democratic Republic of Ethiopia next door at 17 Prince's Gate.*

Issue 40  
May 2007

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

Welcome all to Issue 40

A warm welcome to those members who have joined the group since the last issue, March, and already participating in our activities. Following the excitement of the first two months of 2007 March & April have proceeded at a somewhat "sedate" pace, but still gave us much to deal with as will be seen as you read through the Newsletter. Unfortunately there has been no further loggings of E27 or G11 despite an intensive monitoring effort, we are perplexed by this very odd series of events but the challenge remains. Enjoy our offerings.  
Paul & Mike L

### ***E27 update***

A few members have submitted information from their archived logs, as mentioned in Issue 39, relating to previous hearings. None have been of sufficient detail to be regarded as "catches" but the freqs were all close to those we initially published.

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Another additional dimension to our "bog standard" (if there is such a beast) Numbers Monitoring activities, and the already established ongoing station investigations, is slowly emerging with some further recent impetus. These mathematical approaches introduced into group over the past year or so (lead by Ian Wraith/Alpha Vax/Eric Kamerling / Manolis Petrakis) variously involving patterns/visualisations created by mathematical means including, but not limited to, volumetric plots. Such approaches may at some stage in their development be capable of providing some "interesting" alternative avenues to the processing of encrypted material – but NOT its decryption.

It is not our intention to repeat these detailed discussions within the Newsletters as we feel their scope and content would not appeal to the majority of members.

However, for those interested members with at least a basic formal grounding in "maths", to appreciate the intricacy of the concepts, the exchanges on group are certainly worth studying in depth - and keeping your own records.

( we are considering a specialist sub group)

This activity again shows that the "Golden Rule" of numbers is alive and well, "There's more than one way to skin a cat."

Be aware that Eric is using GNU/Linux with its highly flexible and adaptable "command line" method of inputting while Manolis generally uses the "Mathematica" programme under Windows in either its "command line or GUI variations.

Neither of these options, or any of the extensive previous investigatory work by IW & AV, are of a "point and click to find the answer operation" these approaches are best suited to those "mathematically erudite" and prepared for a long haul.

[Yours truly, having a formal background in Analytical Chemistry and Electronics, has to read the email exchanges very carefully. Ed]

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**CW section, as remarked upon in a previous Newsletter our intention is to more fully utilise the very detailed activity/prediction charts/lists provided/produced with considerable effort by our Teams/Desk Managers/Individual Specialists, and needs to be recognised as such.**

**This will reduce the individual station entries which will then be used to "highlight" information, which although posted to group its importance is often missed.**

**This is now feeding through the system and the current issue reflects that policy for selected CW stations, to be followed in subsequent issues by a number of the voice stations.**

### **The quick roundup.**

E15 turns up in a completely new slot.  
E23 ? last heard 4<sup>th</sup> Jan 07, what's happening here.  
E25 reuses an old ID exactly 3 years later.  
G07 - is it back ?  
S06 freq changes  
M01 changed on 01 Mar to the M01/2 "463" skeds  
M03b, this very rare one shows its face again.  
M12, starts reusing freq sets an hour later, and interchanging freqs with XPA  
M23, introduces a format change  
XPL, caught again, 3<sup>rd</sup> time in 10 years ??

### **Morse Stations**

#### **Freqs are +-1k**

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.

**Unid1** per FN, 4828/7446 on-off keying, running for days, strong signal into Norway.

#### **M01/2 XIV** MCW, hand (463 sked from 1<sup>st</sup> Mar)

Note, will change to the 025 skeds on 1 May till end August.

5020	20.00z	06 Mar	463 711 25
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#### **M01a** (formerly end of month TXs)

6927	08.20z	12 Mar	169 89074 111 999 = 375 20 .....
5467	12.30z	22 Mar	i/p ending ...111 000
4383	18.25z	28 Mar	i/p, 2 msgs of 40 & 60 gps

**M01b**

5151	16.20z	06 Mar	812 792 27
4848//4141	18.20z	16 Mar/03 Apl	210 847 29
5735	21.40z	22 Mar	i/p
4455	19.16z	23 Apl	771 787 32....

**M01c**

No reports

**M03 III** ICW, some CW

8187	08.00z	03 Mar	624/00
7772	09.00z	05 Mar	976/00
4870	07.30z	06/13 Mar 041/00	
7798	09.15z	06 Mar	221/00
6941	07.30z	07 Mar	508/00
5815	13.15z	"	048 56 – 92195...
8759	10.00z	08 Mar	976/00
10728	07.45z	13 Mar	503/00
6814	18.20z	16 Mar	040/00
4958	07.30z	"	041/00
12153	08.45z	19 Mar	252/00
6433	11.00z	22 Mar	741/00
6814	07.30z	23 Mar	040/00
4958	08.00z	23 Mar	041/00
6524	12.00z	03 Apl	741/00 New Sked, FN.

**M03b**

This very rare visitor to our pages caught by FN &amp; RNGB

5815	13.15z	07 Mar	048/56 – 92195....
5358	15.00z	07 Mar	048/56 - 92195....

**M03c** (Stutter groups)

10728	07.45z	06 Mar	500/32 = = 77777 77777 51972....
12397	08.45z	08 Mar	rpt above. Ended 09.03z, to which JoA remarks "did they tag on an extra mssg, a long time for a 32 gp mssg"
9060	08.14z	09 Mar	554/34 = = 77777 77777....
12153	08.45z	12 Mar	253/36 = = 77777 77777 72103.... Rpt'd on 14 <sup>th</sup>
10728	07.45z	03 Apl	501/37 = = 77777 77777 64998....
7772	09.00z	16 Apl	971/36 = = 77777 77777 35117

**M03e**

No reports

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

**Note**, the Cuban Desk is currently engaged in discussion with the "Control List" with a view to assigning additional IDs to the M08/V02 network, as and when a clear established overview emerges.

The usual fun and games abound, even the new formats (& V02a new voice) are continuing the established "tradition" of cock-ups, but the "repertoire" has been expanded with the further use of some LSB.

The investigation of "with or without 9's" and "first & last 2 groups" continues by Tim (westt1) while the new "no pauses" format makes monitoring much more difficult, a write-up is planned in a subsequent issue.

As Mark Slatens comprehensive "Cuban" charts nicely distil the input from all the "Cuban Team" we will only now separately list items of particular significance, along with the usual quick ref of current freqs.

Freqs

3292, 4028, 5759, 5800, 5898, 6786, 6826, 8097, 8186, 9040, 9063, 9153

Above freqs also use/are MCW

3025, 3926, 4027, 4034, 4478, 4506, 5116, 5134, 5416, 5761, 5798, 5882, 6785, 6854, 6865, 6932, 7481, 7519, 7526, 7554, 7619, 7680, 7726, 7841, 7887, 7974, 8009, 8135, 9063, 9152, 9323, 10125, 10345, 10446, 13379.

**M08c**

No reports

**M08d**

No reports

**M10 IX** ICW / MCW, some CW

Note. There will be freq changes from 01 May to M10/S10d/S17c family.

7745	16.30z	03 Mar	333	571 73/38 = = 97214....
		(Rptd 04 Mar)		275 50/28 = = 52484....
				049 50/30 = = 25199....
				435 40/39 = = 13783....

14565	06.15z	04 Mar	666	000 17.01z
5945	18.00	04 Mar	444	710 #####
11416	16.40z	06 Mar	222	782 31/39 == 39540....
8112	17.00z	"	222	128 23, 323 36
9986	17.20z	"	888	761 25, 426 31
9165	19.50z	"	222	846 24
4485	22.00z	"	222	544 28
14445	08.40z	07 Mar	666	745 28/22
5079	16.30z	07 Mar	666	347 35 522 38
4782	21.00z	"	999	571 38 275 28 049 30 435 39
14445	08.40z	08 Mar	888	287 75/22
9986	17.20z	"	333	347 35 522 38
8190	19.40z	"	444	846 24
5946	11.40z	12 Mar	111	347 35 522 38
8175	14.10z	"	222	612 38 785 34
4946	15.00z	"	444	185 29 686 35
4835	18.20z	"	222	612 38 785 34
4783	21.00z	"	444	612 38 785 34
5078	08.00z	14 Mar	444	275 35 899 36
12227	12.00z	"	222	450 27 894 35
5078	16.30z	"	777	205 18 497 34
5917	17.00z	"	666	571 26/25
14445	14.40z	15 Mar	666	450 27 895 35
14563	15.30z	"	444	484 34 138 20
4485	02.10z	24 Mar	666	" "
"	04.10z	"	333	639 30 19
5917	05.35z	"	222	639 30 19
				571 58 32
				275 56 39
				049 69 23
				435 25 35
5945	07.00z	"	444	497 20 37
5078	16.30z	"	888	571 58 32
				275 56 39
				049 69 23
				435 25 35
5918	05.35z	26 Mar	999	571 32
				275 39
				049 23
				435 34
4834	03.10z	27 Mar	444	737 75 37
				728 07 41
4484	03.30z	27 Mar	111	717 70 38
3522	04.00z	27 Mar	999	084 25 24
				161 35 29
14563	06.15z	28 Mar	666	351 28 471 30
6758	19.00z	"	777	125 18 448 29
6833	03.30z	19 Apl	i/p	New Freq, replaces 6758
4484	04.00z	19 Apl	222	421 35 40
				364 96 30
10125	19.20z	23 Apl	777	221 61 23
				706 69 40
9369	18.00z	29 Apl	444	751 24 New Freq ? BR
8190	04.50z	30 Apl	666	406 31 584 32

**M11 IXA** (formerly M10e)

7891	08.00z	14 Mar	111x3, 76543x3, 05x3, 48789x3 ....
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**M12 IB** ICW, some MCW / CW, short 0

Some variations to the "changed times" noted as not all TX's made the CET summertime change, prompting Brian to raise the question "time zone targetting ?"

Further freq changes during Mar are shown highlighted in Brians following charts, along with the introduction during March of the "reuse" of freq sets in the subsequent hours sked.

This new development spotted both by Brian and Fritz.

Where's the mystery "928" ID gone to ??, it appeared on 06 Mar 18.00z but did not return on 20<sup>th</sup>, as would be normal, which resumed the previous 564 ID – so, was it an error or more "sinister", we shall be watching.

Brian's M12 charts follow on the next few pages:

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Thu 1	1700	14893	1726	13593	1752 ?	12193	851	525	293
	1900		1920	12189	1940	11491	816	1898	101
Fri 2	1700	14893	1726	13593	1752	12193	851	525	293
Sun 4	1800	13386	1820	12189	1840	11491	725	1747	100
	1900	10343	1920	9264	1940	8116	124	9387	120
Mon 5	1900	10343	1920		1940		124	575	40
	2000	10343	1920	9264	1940	8116	124	4053	82
Tue 6	1700	13386	1720	12189	1740	11491	725	3019	103
	1800	12162	1820	11566	1840	10711	938*	4705	60
	1900		1920		1940	11491		V. Weak	
	2100	6842	2120	5924	2140	5178	891	954	28
Wed 7	1800	10343	1820	9264	1840	8116	124	2918	107
Thu 8	1700	14893	1720	13593	1740	12193	851	9491	223
	1700	12162	1720	11566	1740	10711	546	5321	100
	1800	13386	1820	12189	1840	11491	725	3641	102
	1900	13386	1920	12189	1940	11491	816	67.9	101
	2000	10343	2020	9264	2040	8116	124	5783	52
Fri 9	1700	14893	1720	13593	1740	12193	851	9491	223
	2100	6842	2120	5924	2140	5178	891	954	28
Sun 11	1800	13386	1820	12189	1840	11491	725	2742	107
	1900	10343	1920	9264	1940	8116	124	9493	112
	1940		2000	7632	2020	5843	368	675	241
Mon 12	1900	10343	1920	9264	1940	8116	124	575	30
	2000	10343	2020	9264	2040	8116	124	2832	65
Tue 13	1700	13386	1720	12189	1740	11491	725	3045	103
	1800	12162	1820	11566	1840	10711	546	2572	65
	1900	13386	1920	12189	1940	11491	725	6391?	110
	2100	6842	2120	5924	2140	---	891	0 0 0	
Wed 14	1800	10343	1820	9264	1840	8116	124	2836	121
	2000	8168	2020	6768	2040	5368	173	908	181

\* 938 ID not previously known with this freq group – Note it reverted to the more usual 546 ID the following Tuesday. Possibly 938 ID erroneously sent.

Highlighted cell indicates new or changed loggings

--- Indicates no 3<sup>rd</sup> transmission sent as message 0 0 0

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Thu 15	1700	14893	1720	13593	1740	12193	851	829	115
	1700	12162	1720	11566	1740	10711	546	1598	100
	1800	13386	1820	12189	1840	11491	725	8752	110
	1900	13386	1920	12189	1940	11491	816	2679	101
	2000	10343	2020	9264	2040	8116	124	2691	70
Fri 16	1700	14893	1720	13593	1740	12193	851	829	115
	2100	6842	2120	5924	2140	---	891	0 0 0	
Sun 18	1800	13386	1820	12189	1840	11491	725	8066	107
	1900	10343	1920	9264	1940	8116	124	1225	120
	1940	9389	2000	7632	2020	5843	368	379	243
Mon 19	1900	10343	1920	9264	1940	8116	124	4386	105
	2000	10343	2020	9264	2040	8116	124	1526	72
Tue 20	1700	13386	1720	12189	1740	11491	725	8244	102
	1800	12162	1820	11566	1840	10711	546	5415	75
	1900	13386	1920	12189	1940	11491	725	1873	110
	2100	6842	2120	5924	2140	---	891	0 0 0	
Wed 21	1800	10343	1820	9264	1840	8116	124	7391	107
	2000	8168	2020	6768	2040	5368	173	914	203
Thu 22	1700	14893	1720	13593	1740	---	851	0 0 0	
	1700		1720		1740	10711	546	3 . . 8	40
	1800	13386	1820	12189	1840	11491	725	4317	105
	1900	13386	1920	12189	1940	11491	816	5428	110
	2000	10343	2020	9264	2040	8116	124	5774	60
Fri 23	1700	14893	1720	13593	1740	12193	851	864	117
	2100	6842	2120	5924	2140	5178	891	862	43

Highlighted cell indicates new or changed loggings

--- Indicates no 3<sup>rd</sup> transmission sent as message 0 0 0

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
			UK	Change	To	BST			
Sun 25	1700	13386	1720	12189	1740	11491	725	1345	100
	1800	10343	1820	9264	1840	8116	124	2506	101
	1940	9389	2000	7632	2020	5843	368	176	283
Mon 26	1800	10343	1820	9264	1840	8116	124	5412	120
	1900	10343	1920	9264	1940	8116	124	4065	55
Tue 27	1600	13386	1620	12189	1640	11491	725	1331	110
	1700	12162	1720	11566	1740	10711	546	7514	65
	1800	13386	1820	12189	1840	11491	725	6776	101
	2100	6842	2120	5924	2140	---	891	0 0 0	
Wed 28	1700		1720	9264	1740	8116	124	8102	120
	2000	8168	2020	6768	2040	---	173	0 0 0	
Thu 29	1700	14893	1720	13593	1740	12193	851	393	139
	1700	13386	1720	12189	1740	11491	725	4534	102
	1800	13386	1820	12189	1840	11491	816	5446	103
	1900	10343	1920	9264	1940	8116	124	3913	82
Fri 30	1700	14893	1720	13593	1740	12193	851	393	139
	2100	6842	2120		2140		891	806	27

Highlighted cell indicates new or changed loggings

--- Indicates no 3<sup>rd</sup> transmission sent as message 0 0 0

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Sun 1	1700	13386	1720	12189	1740	11491	725	6279	102
	1800	10343	1820	9264	1840	8116	124	3587	121
	1940	9389	2000	7632	2020	5843	368	138	151
Mon 2	1800	10343	1820	9264	1840	8116	124	3044	102
	1900	10343	1920	9264	1940	8116	124	6237	83
Tue 3	2100	7817	2120	6817	2140	5817	417	948	95
Wed 4	1900	11156	1920*	9956	1940	---	191	0 0 0	
	1940	9389	2000	7632	2020	5843	368	138	151
Thu 5	1800	13386	1820	12189	1840	11491	816	1699	111
	1900	10343	1920	9264	1940	8116	124	7594	63
	1900	13582	1920	12082	1940	10382	503	4565	181
Fri 6	1900	13582	1920	12082	1940	10382	503	4565	181
	2000	9101	2020	6971	2040	---	197	0 0 0	
Sat 7	1900	13965	1920	13382	1940	12151	931	564	147
Sun 8	1940	9389	2000	7632	2020	5843	368	618	223
Mon 9	1800	10343	1820	9264	1840	8116	124	247	55
	1900	10343	1920	9264	1940	8116	124	2189	62
	1900	13965	1920	13382	1940	12151	931	564	147
Tue 10	2000	9101	2020	6971	2040	---	197	0 0 0	
	2100	7817	2120	6817	2140	---	417	0 0 0	
Wed 11	1900	11156	1920	9956	1940	---	191	0 0 0	
	1940	9389	2000	7632	2020	---	368	0 0 0	
Thu 12	1800	13386	1820	12189	1840	11491	816	1181	105
	1900	10343	1920	9264	1940	8116	124	6825	61
	1900	13582	1920	12082	1940	10382	503	255	163

\* 2 Mins late starting



Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Fri 13	1900	13582	1920	12082	1940	10382	503	255	163
	2000	9101	2020	6971	2040	---	197	0 0 0	
Sat 14	1900	13965	1920	13382	1940	---	931	0 0 0	
	1900	11156	1920	9956	1940	---	191	0 0 0	

Highlighted cell indicates new or changed loggings

--- Indicates no 3<sup>rd</sup> transmission sent as message 0 0 0

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Sun 15	1940	9389	2000	7632	2020	5843	368	243	197
Mon 16	1700	13386	1720	12189	1740	11491	725	3568	83
	1900	10343	1920	9264	1940	8116	124	1798	92
	1900	13965	1920	13382	1940	---	931	0 0 0	
Tue 17	1600	13386	1620	12189	1640	11491	725	2784	67
	1800	9176	1820	7931	1840	6904	257	3187	110
	2000		2020	6971	2040	---	197	0 0 0	
	2100	7817	2120	6817	2140	5817	417	2806	149
Wed 18	1700	9176	1720	7931	1740	6904	257	3673	100
	1900	11156	1920	9956	1940	8156	191	312	105
	1940	9389	2000	7632	2020	5843	368	243	197
Thu 19	1700	9176	1720	7931	1740	6904	257	2348	110
	1800	13386	1820	12189	1840	11491	816	9536	105
	1900	10343	1920	9264	1940	8116	124	3417	50
	1900	13582	1920	12082	1940	10382	503	472	83
Fri 20	1900	13582	1920	12082	1940	10382	503	472	83
	2000	9101	2020	6971	2040	---	198	0 0 0	
Sat 21	1900	13965	1920	13382	1940	---	931	0 0 0	
	1900	11156	1920	9956	1940	---	191	0 0 0	
Sun 22	1800	9176	1820	7931	1840	6904	257	7802	102
	1940	9389	2000	7632	2020	5843	368	977	269

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Mon 23	1700	13386	1720	12189	1740	11491	725	1057	51
	1800	9176	1820	7931	1840	6904	257	8327	110
	1900	10343	1920	9264	1940	8116	124	4596	50
(Cont.)									

Highlighted cell indicates new or changed loggings

--- Indicates no 3<sup>rd</sup> transmission sent as message 0 0 0

M12 Log2 Apr 2007

Brian - Crawley

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
(Cont.)									
Tue 24	1600	13386	1620	12189	1640	11491	725	5439	65
	1800	9176	1820	7931	1840	6904	257	2712	110
	2000	9101	2020	6971	2040	---	197	0 0 0	
	2100	7817	2120	6817	2140	---	417	0 0 0	
Wed 25	1700	9176	1720	7931	1740	6904	257	4218	120
	1900	11156	1920	9956	1940	8156	191	342	185
	1930	8047	1950	6802	2010?	NF	463	9764	65
	1940		2000		2020	5843	368	977 .?	269
Thu 26	1700	9176	1720	7931	1740	6904	257	5802?	111
	1800	13386	1820	12189	1840	11491	816	1382	105
	1900	10343	1920	9264	1940	8116	124	3557	68
	1900	13582	1920	12082	1940	10382	503	794	133
Fri 27	1900	13582	1920	12082	1940	10382	503	794	133
	2000	9101	2020	6971	2040		197	150	63
Sat 28	1900	13965	1920	13382	1940	12151	931	624	115
	1900	11156	1920	9956	1940	---	191	0 0 0	
Sun 29	1800	9176	1820	7931	1840	6904	257	6619	121
	1940	9389	2000	7632	2020	5843	368	2941	229
Mon 30	1800	9176	1820	7931	1840	6904	257	6451	103
	1900	10343	1920	9264	1940	8116	124	1494	71
	1930	8047	1950	6802	2010	NF	463	5439	53

Highlighted cell indicates new or changed loggings

--- Indicates no 3<sup>rd</sup> transmission sent as message 0 0 0

M12 logs continue.....

6842/5924/5178	21.00/20/40z	02 Mar	891 1 954 28 68445....
"	"	06 Mar	" "
"	"	09 Mar	" "
9042	15.54z	07 Mar	i/p (poss 11648/10518/9042 sked)
10343/9264/8116	19.00/20/40z	12 Mar	124 1 575 40
10343/9264/8116	"	19 Mar (Mon)	124 1 4386 105
"	20.00.20/40z	"	124 1 1526 72
13386/12189/11491	18.00/20/40	22 Mar	725 1 4317 105
"	19.00/20/40	"	816 1 5428 110
6840/5922/5176	04.00z	25 Mar	891 1 862 43 ..... (note freqs)
10343/9264/8116	18.00/20/40z	02 Apl	124 1 3044 102
9101/6971 (5758)	20.00/20/ NRH	03 Apl	197 000 "Apl 2006 XPA freqs"
9176/7931/6904	18.00/20/40z	17 Apl	257 1 3187 110 New triplet
8047	19.30z	18 Apl	i/p, possible 1840/1900/1920z sked with 9120 as the 18.40z freq
8047/6802	19.30/50z	25 Apl	463 1 9764 65
			Not at the expected times!/, but neither was a 20.10z 3 <sup>rd</sup> TX found ?
			These messages sent at a slower speed than usual.
9101/6971/5758	20.00/20/40z	27 Apl	197 1 150 63 73620....

**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

5464	19.20z	28 Mar	537 637 25
8120	07.00z	13 Apl	362 369 65 - - 48454
7395	08.00z	"	rpt
8095	19.05z	19 Apl	i/p

**M14a** (two message variant)

No reports

**M18 IC**

No reports

**M23 O**

J-PL (Can) daily logs still provides our yardstick reference and this time around P-JL established that a new call-up format had been introduced, noted from 3 Mar for all monitored freqs and addressees that day, confirmed on subsequent 2 days :-  
 5 secs between numbers, 12 secs between call groups.  
 Then on 06 Mar reverted to the previous format, but back to new on 10 Mar, before again reverting.  
 From early impressions it appears that the two formats are interchangeable, we shall see !

J-PL will be moving location across Canada around the time of publication of NL 40 so will be "out of the loop" for a period of time although monitoring group traffic.

10708/11430	15.00 – 17.30z	03 Mar	555 & 951 new format
11430//10780, 14710/8810	15.08 – 17.30z	06 Mar	555 & 951 old format
8810//5670	16.30z	07 Mar/02 Apl	951 old format
12220	17.37z	17 Mar	i/p
12200	08.30z	27 Mar	555
11430/10780	15.00z	02 Apl	555 (old sked still in use)

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

8150	19.40z	06 Mar	i/p ends == 698 113 00000
9120/7920	19.30/20.00z	07 Mar	798 653 140
12205	09.11z	08 Mar	i/p
10820	08.00z	22 Mar	742 00000
7920	19.10z	18 Apl	798 305 46
11430	08.00z	19/26 Apl	742 00000

And a seldom logged two message TX caught by RNGB, then cross confirmed by mndbs, not to be confused with the M24a variant which has a "hand keyed" element.

7920	19.00z	25 Apl	798 643 52... 46060
			798 102 65...72923

**M39 ICX?** ICW / MCW

No reports

**M44 O**

No reports

**M45 XIV** MCW, slow, hand

4555	18.02z	06 Mar	555 978 32
4555//4995	18.02z	20 Mar	555 978 32
“ “	“	19 Apl	555 138 31

**M50 XIV** MCW  
No reports

**M51** information only.

Not a numbers station but often confused as one and subject to regular queries via group.

It's a French Mil training network sending both plain text and Crypt.

It reuses "content" tapes over many years and has random times/freqs.

A typical TX would be " = nn M 5 12:25:40 = 100 x 5 let"

See control list for more detail.

There are times when there's a marked increase in activity, thus prompting the group queries, but this is believed to relate to the "finals" of the associated training courses.

We will not be reporting logs in the Newsletter.

**M55 O**  
No reports

**M62 O**  
5232 06.05z 27 Mar ETR1 ETR1 +

**M76 O**  
No reports

**M87 O**  
No reports

**M89 O**  
5727 19.45z 13 Mar Typical call of  
v T3AP de QF3K

**SK01** (Generic for all Cuban SK's)

This station is providing some interesting monitoring, not only is it experimenting with alternative transmission modes but mixing cut/full number formats within the same transmission.

Much info has been posted onto group so we only give a typical example.

5882LSB PSK 14.01z 28 Feb Before changing to M08a at 14.02z  
Nicely caught by J-FL.

Then this from Tom H

Date:07 Mar 07, UTC:1700-1732 , Freq:17436, SK01

(Radio Habana with YL announcer briefly intermixed 1703, PSK31 begins shortly with another Radio Habana intermix 1711.

PSK concludes 1715, QRT 1732. Appears a repeat of yesterdays message.

11111 11111 11111 11111 11111 11111 11111 11111 11111 11111  
54761 04251 50221 54e  
61 54761 a4761 54761 54761 49110 54446  
64479 77686 07115 01797 36587 72460 96800 39090 22901 14573  
13931 62809 83184 07274 45733 84974 05207 12087 31578 24233  
33883 33322 73084 70797 10572 36821 65855 78157 91592 57008  
60288 99407 40197 32201 46696 97670 03063 53118 95159 39664  
20876 73280 55516 84765 11301 28324 26201 09085 70619 93839  
09204 43169 31)59 53798 90054 83780 90705 80038 eo1524 67580  
83193 0637x 0381eo 40916 59934 37001 56613 77454 12467 53893  
36157 43719 88237 55008 96798 10279 55260 28174 53178 50740  
48831 84221 08275 23690 50005 79703 81466 76966 42842 95018  
24031 12578 59825 068eiE 3L0aoa to4182 1853ide 378 98608 59811  
24035 49320 75976 71286 89a j 76583 34380 36715 97085 37457  
96107 77565 50696 83828 23046 42199 36185 95335 39983 99188  
41026 12490 81428 07383 78883 23331 79041 10706 38916 86876  
06981 37345 01948 02596 15760 69585 56245 31770 84115 19599  
48178 53235 94728 44379 62688 27358 49110 54446 35270 43876  
04251 04251 04251 04251 04251 53846 45762 89246 98146 77722  
71648 51775 88540 60297 38451 23490 52290 32963 25675 45285  
06566 34441 11896 35367 73536 80375 06851 78581 16970 22597  
87707 17639 28042 48901 49560 04326 16294 95632 42765 23937  
98896 84248 95002 36263 67070 91312 16731 67297 15554 42052  
53515 57627 13711 96512 22300 78584 13436 13462 59144 50867  
52313 78479 37120 09715 14195 20454 10361 87151 57555 40368  
85865 18693 67018 29300 36158 61096 59394 13750 80221 01602  
64227 62041 74981 25387 84907 60582 95478 00040 24004 75927  
51649 50027 24041 70203 69769 39951 44912 37078 77197 85678  
18933 11955 82735 08683 52307 34322 28666 47992 82718 36424  
50245 07672 49100 91070 87026 37585 90511 96629 11269 15969  
70428 87401 09164 04374 72118 90983 05815 55608 52107 92707  
41875 12841 68917 35143 59461 00910 53155 78338 97308 47968  
98102 49580 77595 53482 66669 61366 86514 99138 08597 65393  
72510 09687 27349 53846 45762 76298 88630 65402 46939 73987

50221 50221 50221 50221 50221 99472 36407 11445 22255 53837  
84717 09234 76516 52332 84959 24863 84625 67146 80071 53149  
78384 89647 43164 80955 54583 24265 97969 03789 11531 62923  
31768 16215 02045 88245 78421 79731 78698 92132 39971 30762  
88789 45893 57834 79752 83378 38370 31040 91561 72149 28810  
73871 30792 10976 62622 95681 34422 64940 31232 29675 55360  
02857 92575 63545 30756 17590 81161 33737 66124 92087 81528  
82597 97060 04723 44 73930 89572 90997 83403  
47387iw9t 5709 72334 C9994 92450 53597 89165 33097 75083  
07551 01819 06025 Mt u/3 558 01423 16452 e  
f370 en154N - 390c 88D4 02841 46212 37922 50869 43873 39516  
44093 50584 96982  
95384 08995 23911 11824 53408 98928 58794 42968 89424 76715  
61414 52855 16769 79769 63240 09102 84609 17320 61832 71196  
10682 619501ieN 73219 80423 91947 38577 9I eAU 8291 4 88038  
53779 33795 95454 99472 36407 83983 67390 34783 88759 53465  
22222 22222 22222 22222 22222 22222 22222 22222 22222 22222

other freqs

5116, 5800, 5898, 6786, 6826, 7887, 17478

On 05Apl SK01 was heard “trialing ?” the PSK 220F mode on 17478/16.00z & 17436/17.00z , using both cut and full number modes. Then on 12 Apl CS informed group that PSK125, BPSK31, QPSK31 and a further unid mode were simultrans on 7887, this is beginning to look like “playtime with some new toys”

Manolis caught a further 220F on 17 Apl at S3-5 in Greece, again using Cut & Full

A number of long established M08a skeds appear to have/are being morphed into SKs, with the former Tuesday M08a 06.00/07.00 and 07.00/08.00z skeds consistently being SK while the same pattern is being seen with V02a’s , although further monitoring is needed, time will tell !

AS, BR, CS, DrMHZ, FN, FS(NO), Gert, HFD, HS, J-FL, JoA, J-PL, ML, mndbs, MS, MoK, Plondon, RNGB, TH, Anon2 UK, Anon1 EU.

### 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)

This time we have only one event, which was happening within the German scene. The focus of this report are the X06 events and logs.

SIS Germany: New forum and address

Since March, SIS Germany has a new forum with a new URL: [www.sis-germany.de/Joomla](http://www.sis-germany.de/Joomla) (but if you only type in [www.sis-germany.de](http://www.sis-germany.de), as you know it, you’ll come there automatically). This numberstations forum is different to the old one, but better to work with, especially for foreign people, because the main menu is made in English language. If you were already member of the old SIS Germany forum, you have to register new. The moderator of the “Numberstations” forum is the Kopf. The numbers forum is made in 2 languages (English and German) and contains also a link to E2K. The members of the forum are very active in logging and discussing some serious aspects of numbers stations - but on April 1<sup>st</sup>, one of them knew to report about a funny April joke: “Spiegel TV/RTL sends a program ‘A numbers woman reveals’: Johanna S., aged 78, worked many years for the BND and read numbers stations, and now she tells her story during her work, and how it was possible for her to create her family company for making soups of letters and numbers”. A nice joke, isn’t it? Some of us believed it’s true, and one other programmed his video recorder for this transmission, but heard nothing about a numbers woman who “reveals”. Well, the part with the nice tasting “soups of letters and numbers” sounded too suspicious for a joke, I think.

X06 Mazielka (1C) logs section

Wow, that was a nice period with a lot of nice 3x2 tone variants and a discovery: The 6-note rising scale and the 3x2 tone variants belong together. If you compare frequencies like 9300 kHz, you’ll find both variants at different times. There are more freqs, where you can note this. – Thanks to all my busy X06 assistants including PoSW and another Peter from UK, our new assistant. Here are the collected logs:

Date	Day	UTC	Freq	Md	Scale	Monitor	Comments
20070225	Sun	0804	14946			PoSW	Strong signal (very short)
20070225	Sun	0811	16024		156234	PoSW	S6
20070302	Fri	0715	9300	AM	121212	RNGB	3x2 tone variant – fair to weak
20070303	Sat	1834	6901			PoSW	Approx., strong and very short
20070305	Mon	1100-1103	10240	USB	121212	Mikendbs	3x2 tone variant with S8
20070306	Tue	1300	8300	USB	131313	Manolis/GR	3x2 tone variant (very short)
20070306	Tue	1627	10731	AM	314265	RNGB	
20070307	Wed	1733	6912			S&D	
20070312	Mon	0900-0907	11424	AM	421635	KopfE2Kde	Fair to weak
20070312	Mon	1533-1543	12224	AM	463125	Mikendbs	Strong S9
20070314	Wed	1612-1617	12224	AM	463125	Mikendbs	Usual scale, S9 solid
20070319	Mon	1638-1644	13395	AM	532614	Kopf	Strong S9
20070320	Tue	0900-0905	13401	AM	165423	Kopf	Strong S9
20070322	Thu	0814-0825	10193	AM	164532	Kopf	Standard freq
20070326	Mon	1505	12224	AM	463125	Mikendbs	S6 with fades
20070326	Mon	1552	13518	AM	463125	FrankE2Kde	
20070411	Wed	0805	11483	AM	412356	Kopf	Very short monitored
20070413	Fri	0802-0803	10653	AM	356412	RNGB	Carrier stayed till about 0818!
20070413	Fri	1452	12224	AM	463125	RNGB	Usual scale (very common)
20070416	Mon	1035-1046	10240	AM	123456	Mikendbs	6-note rising – testing?*
20070417	Tue	0804-0819	9450	USB	165423	Manolis	S3 improving to S5 on E25 freq

Date	Day	UTC	Freq	Md	Scale	Monitor	Comments
20070424	Tue	0730-0734	14650	AM	215346	Mikendbs	S7
20070424	Tue	0922-0940	13525	AM	215346	Kopf	S5-7 with QRM by MX "C"
20070424	Tue	1325-1331	12224	USB	463125	Peter/UK	
20070425	Wed	0705-0740	12100	AM	121212	Kopf	3x2 tone variant with S6-7**
20070426	Thu	0857-0859	9240	USB	565656	RNGB,	Kopf Most interesting special!***
20070427	Fri	0735-0743	13852	AM		Kopf	Only 1 long dash – X06?****
20070427	Fri	0817-0826	15863	AM		Kopf	Repeat
20070427	Fri	1349-1358	13852	AM		Peter/UK	Repeated test signal with SSTV

- 
- \* Long gaps between TX and moving up and down from 10240 kHz.

\*\* Signal changed up to strong S9 from 0728-0730, as it went back to S6-7. At 0739: one small break, then one single round, another small break, 5 rounds, definitely off at 0740.

\*\*\* Just after signal stop, nice mix between digital mode signal and a single short tone (repeated several times, interrupted by long, long breaks)

\*\*\*\* This dash had exactly the same length as all the 6 tones of X06 after another, also the break had the same length as in X06 transmissions; signal vanished nearly at 0743 UTC. I remember such a dash signal from last summer (not reported in NL 36).

Next time there will come more, and I think, we don't have to wait very long till the next surprising X06 events will happen. Till then "Auf Wiedersehen" and „Good-bye"

### VOICE STATIONS

#### 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.

Corresponding with certain events featured within the media and requests and reports concerning Family X transmissions PLondon posted this request to Group:

Msg 14638: 03/E03a Lincolnshire Poacher and Cherry Ripe.

A few words on the above stations and security.

British Forces are engaged in two particularly aggressive theatres at this time where an enemy, that is not to be underestimated in capability, acts in concert to allied tasking.

Please think before you post any details of the two stated stations to this Group or elsewhere. [Location or lack of it, new frequencies and certainly signal strengths, or lack of them, in stated areas].

Let's not help those who do not have Britain's, or her allies, best interests at heart by unwittingly breaching OPSEC.

*Please act accordingly and think about the use your posted message may be in the hands of those who have different ideals to our own.*

#### E06 [ IA ]

Still plenty of activity from the E06 English speaking OM but I have lost track of the Thursday 0800 UTC E06 with the female voice, always on 11,170 kHz, which I heard several times between November '06 and February this year, last heard on the 8th of that month. The last time I was near a radio at 0800z on a Thursday was on 29-March and there was no sign. However, since this appeared to be an English language version of the S06 Russian YL and shared similar characteristics such as always having a single figure group count, it may have done a seasonal frequency change as of March - because that is what the Russian version did - and may still be around somewhere.

#### Weekly Sunday 1830 + 1930 UTC Schedule:-

25-Feb-07;- 1830 UTC, 5,380 kHz, calling "690" for a full message, somewhat unusually since the last such transmission was on 10-December-06. DK/GC "347 347 165 165", so quite a long message. S9+ signal with the deep modulation that some of E06s have,

1930 UTC, 4,465 kHz, second sending, strong signal; and as an added interest an M10 came up a few kHz lower calling, "Foxtrot Tango Juliette 2".

26-Feb-07, Monday;- 1836 UTC, 5,380 kHz, first sending of the "next day repeat" of yesterday's transmission in progress.

1930 UTC, 4,465 kHz, "690" and "347 347 165 165", second sending, very strong signal with dep mod. Was using the "concealment" procedure in the ten minutes before start-up time, i.e. no steady carrier up but a quick burst of carrier two or three times a minute.

4-Mar-07;- 1830 UTC, 6,860 kHz, "690 690 690 00000", strong signal

1930 UTC, 5,405 kHz, second sending; these two frequencies were used in March last year.

11-Mar-07;- 1830 UTC, 6,860 kHz, calling "690" for a full message - things are looking up for "690" - DK/GC "524 524 199 199", another long one. Noisy frequency, some kind of data transmission as strong as E06 or even stronger at times.

1930 UTC, 5,405 kHz, second sending, much clearer signal than the first sending.

12-Mar-07, Monday;- 1846 UTC, 6,860 kHz, first sending of the "next day repeat" in progress, much better signal than yesterday.

18-Mar-07;- 1830 UTC, 6,860 kHz, "690 690 690 00000", strong signal, deep mod., lower sideband well suppressed. Was using the "concealment" routine in the ten minutes before the half-hour.

25-Mar-07;- 1830 UTC, 6,860 kHz, "690 690 690 00000", S9+ signal, still with the deep modulation, lower sideband well suppressed.

Repeated 1930 UTC, 5,405 kHz, weaker signal than the first sending. With the start of British Summertime today has, as expected, stayed on UTC and so is now heard one hour later local time.

1-Apr-07;- 1830 UTC, 8,020 kHz, "690 690 690 00000", same frequency used in April last year. Carrier was up 1806z, tone at 1817z and a single "690" about a minute later. Plain carrier until start-up on the half hour with no attempt at "concealment".  
1930 UTC, 6,970 kHz, second sending, also same frequency as in April last year.

8-Apr-07;- 1830 UTC, 8,020 kHz and 1930 UTC, 6,970 kHz, "690 690 690 00000", S9 signals but mod. not quite as deep as noted in recent weeks on this schedule.

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

1-Mar-07;- 5,186 kHz, calling "861", DK/GC "236 236 29 29", a seasonal frequency change, was heard on 4,836 KHz in the winter months. Ended just before 2040z with DKDK GCGC and 5 x slow "zero".

15-Mar-07;- 5,186 kHz, "861" and "236 236 29 29", as on the 1st. Carrier was up this evening at 1947z, voice called numbers 0 to 9 several times a few minutes afterwards.

5-Apr-07;- 5,186 kHz, call "891", DK/GC "578 578 30 30". Carrier was up when checked at 1956z. Heterodyne from a strong carrier a couple of hundred Hz lower removed by using the receiver in USB mode.

#### First + Third Fridays in the Month 2130 UTC Schedule:-

2-Mar-07;- 5,197 kHz, calling "634", DK/GC same as yesterday's 2030z transmission, "236 236 29 29". This frequency was used in March last year, carrier was up this evening at 2103z.

16-Mar-07;- 5,197 kHz, started approx. 15 seconds after the half hour, "634" and "236 236 29 29" again.

6-Apr-07;- 5,197 kHz, no change of frequency in April, call "634", DK/GC same as yesterday's 2030z sending, "578 578 30 30".

#### Second + Fourth (?) Tuesdays in the Month Schedule:-

13-Mar-07, 2103 and 30 seconds UTC;- 5,290 kHz, last 30 seconds or so of "375 375 375 00000", there appears to be a Tuesday E06, perhaps second and fourth in the month and perhaps 2000 + 2100 UTC, must remember to search on the 27th!.

27-Mar-07;- 2000 UTC, 6,965 kHz, "375 375 375 00000", strong signal with deep modulation.

2100 UTC, 5,290 kHz, second sending.

#### A Monday Schedule:-

2-Apr-07;- 2005 UTC, 9,065 kHz, transmission in progress, a Monday E06 schedule mentioned in recent issues of the E2K Newsletter and thought to be a replacement for the first + third Wednesdays in the month schedule which ceased suddenly last year; I had always been unable to find it - until today! Full message in progress, ended after 2020z with "238 238 95 95 00000". Was S8 to S9 when tuned in but had become much weaker by the end.

2100 UTC, 7,635 kHz, call "170", DK/GC "238 238 95 95", second sending, then.

3-Apr-07, Tuesday;- 2000 UTC, 9,065 kHz and 2100 UTC, 7,635 kHz, repeats of yesterday's "170" and "238 238 95 95".

Thought this might be first + third Mondays in the month but not found on Monday 16-April.  
[Txn PoSW]

#### RNGB's Logs:

Thur 1st March	2030	5186	'891' 236 29 30379 46449 etc
Fri 2nd	0720 2130	16120 5197	' ? ' msg in progress; ended 09103 786 143 00000 '634' 236 29 30379
Sun 4th	1830 1930	6860 5405	'690' 00000 '690' 00000
Mon 5th	2000	7920	'463' 129 70 36073 etc
Sun 14th April	1830	8020	'690' 00000
Weds 18th	1915 2015	6795 5125	'842' 00000 '842' 00000
Thurs 19th	2030	5186	'891' 578 30 96214 41468 etc
Sun 22nd	1800 1830 1930	7920 8020 6982	'798' 561 37 74186 02545 etc '690' 00000 '690' 00000
Tues 24th	2000 2100	8170 6875	'604' 00000 '604' 00000
Weds 25th	1400 1500	10270 8080	'245' 368 247 88450 90416 etc '245' repeat

Thurs 26th	2100	7630	'193' 00000
	2200	5430	'193' 00000
Sun 29th	1830	8020	'690' 00000

Other Logs: [with duplications]

#### March

5405kHz	1930z	04/03[690 690 690 00000]IW	SUN
	1930z	11/03[690 524 199: 35710..]IW	SUN
	1930z	18/03[690 690 690 00000]AF	SUN
6860kHz	1830z	04/03[690 690 690 00000]IW	SUN
	1830z	11/03[690 524 199: 35710..]IW	SUN
	1830z	18/03[690 690 690 00000] AF	SUN
	1830z	25/03[690 690 690 00000] AF	SUN
7920kHz	2000z	05/03 [463 129 70 36073 good with some jet QRM] MG	MON

message:

463 repeated 129 x2 70 x2  
36073 99525 57229 05858 91662 03194 45313 38020 46786 51612  
66147 49111 15685 94658 55271 87921 02896 91572 74985 01759  
07525 32864 55995 27319 03668 65739 70003 71819 72268 37371  
70761 31891 63649 88405 63787 18887 08469 40118 65078 74151  
65138 79494 11333 29227 01154 53465 81694 96293 91461 15833  
86322 12370 54351 27414 35036 83193 44283 48022 41081 97248  
27173 38395 14145 07771 73815 98506 23698 74346 77515 04769  
129 x2 70 x2 00000  
(each group repeated twice)

8121kHz	1600z	28/03[738]	FrankE2kde	WED
9212kHz	1405z	07/03[457 00000]	MalcF, KH, KW, FN	WED
9225kHz	0930z	12/03 (480 210 43)	FN	MON
11430kHz	1505z	07/03[457 00000]	MalcF, KH, KW, FN	WED
16120kHz	0720z	02/03 [part progress 09103 786 143 00000]	0700 start RNGB	FRI

#### April

6970kHz	1930z	08/04[690 690 690 00000]	PLondon	SUN
	1930z	29/04[690 690 690 00000]	IW	SUN
8020kHz	1830z	08/04[690 690 690 00000]	PLondon	SUN
10560kHz	1505z	04/04[457 457 457 00000]	PLondon	WED
12190kHz	1405z	04/04[457 457 457 00000]	PLondon	WED

#### E07 [ IB ]

PoSW leads us into the logs by way of his log, comment and analysis. 'The E07 English speaking man continues in April with schedules on Sundays and Wednesdays starting at 1700 UTC, 6 PM British Summertime and on Mondays and Wednesdays starting at 2000 UTC, 9 PM B.S.T. - shifted by one hour for summertime so as to appear at the same local time as in winter. Summertime started on 25-March this year and the E07 skeds running in March stayed on UTC for the remainder of that month which meant that they showed up one hour later clock time, but moved by one hour to bring everything back into line in April. It causes all sorts of confusion, this messing around with the clocks twice a year! The Thursday schedule which ran throughout the winter months starting at 9.10 PM UK time on the same frequencies in November and December '06 and in January and February this year, 6,777 + 5,449 + 4,483 kHz, appeared to vanish; I hadn't been able to find it in March and only discovered it again on higher frequencies on the second Thursday in April, the 12th, when tuning around at 2030z; found the second sending calling up on 7,526 kHz. The "old trouble" has returned to many E07 sendings in recent weeks, namely the low levels of modulation which makes copy difficult and often downright impossible. This long-standing problem seemed to have been fixed at one time but has returned to give a strong carrier but with the mod so low as to often render it completely inaudible.

#### Sunday + Wednesday Schedule:-

4-Mar-07, Sunday;- 1800 UTC, 9,923 kHz, "906 906 906 1", DK/GC "256 97" x 2, difficult copy due to low mod and BC QRM from 31 metre band stations.

1820 UTC, 9,068 kHz, second sending, strong signal, better mod. than the first effort.

1840 UTC, 7,697 kHz, third sending, QRM from a strong FSK signal slightly HF, copy best with receiver in LSB mode. Theses frequencies used in March last year.

11-Mar-07, Sunday;- 1800 UTC, 9,923 kHz, call "906", DK/GC "899 126" x 2, low mod, BC QRM, difficult to hear.

1820 UTC, 9,068 kHz and 1840 UTC, 7,697 kHz, second and third sendings, easier to copy.



25-Mar-07, Sunday;- 1800 UTC, 9,923kHz; summertime starts today - so it will probably snow tomorrow! - and E07 has stayed on UTC for the time being and so turns up at 7 PM UK time instead of 6 PM. "906" and DK/GC "899 126", as last week. Difficult copy as always. Repeated 1820 UTC, 9068 kHz and 1840 UTC, 7,697 kHz, both with better mod.

28-Mar-07, Wednesday;- 1827 UTC, 9,068 kHz, second sending in progress at 7.27 PM BST, ended with "000 000" after 1835z.

1840 UTC, 7,697 kHz, call "906", DK/GC "899 126" x 2, same as on Sunday.

1-Apr-07, Sunday;- 1700 UTC, 12,123 kHz - as expected has now shifted by one hour to appear at 6 PM again in the UK, "171 171 171 1", DK/GC "899 126" x 2, same message as in the last week of March, low mod.

1720 UTC, 10,703 kHz, "171" and "899 126", second sending with low mod. but readable.

1740 UTC, 8,123 kHz, third sending, very low mod., unreadable; usually the third sending has the best audio and is the easiest to copy. The same frequencies here as in April last year.

#### Monday + Wednesday Schedule:-

5-Mar-07, Monday;- 2100 UTC, 7,874 kHz, "892 892 892 1", DK/GC "752 31" x 2, strong signal with reasonable mod - better than the average E07!

2120 UTC, 6,968 kHz and 2140 UTC, 5,253 kHz, repeats of "892" and "752 31", both strong signals and much better than usual mod. I bet that won't last! Same frequencies as in March last year.

7-Mar-07, Wednesday;- 2100 UTC, 7,874 kHz, as predicted the improvement in the depth of modulation didn't last;- unable to hear any audio on the first sending, carrier went off a few seconds before 2106z. Likewise the second sending at 2120 UTC on 6,968 kHz.

2140 UTC, 5,253 kHz, third sending, mod. very low but just about audible. "892" and "752 31", as on Monday.

21-Mar-07, Wednesday;- 2100 UTC, 7,874 kHz, "892 892 892 000", low audio, difficult copy.

26-Mar-07, Monday;- 2100 UTC, 7,874 kHz, has stayed on UTC for the time being following the start of summertime yesterday, appears at 10 PM in the UK. "892 892 892 1", DK/GC "157 18" x 2. Short message tonight, ended with "000 000" just after 2104z. S9+ carrier, mod. low but readable.

2120 UTC, 6,968 kHz and 2140 UTC, 5,253 kHz, repeats of "892" and "157 18", both strong signals with low but readable mod.

2-Apr-07, Monday;- 2020 UTC, 9,069 kHz, change of frequencies for April, second sending, missed first sending at 2000 UTC - would have been on 10,128kHz, as in April last year, missed it because at 2000z I was monitoring G06 on 6,930 and then an E06 on 9,065 - and has also shifted by one hour, as expected, to start at 9 PM British Summertime. "105 105 105 000", the low mod. persists. Third sending in event of a "full message" should be 2040 UTC, 7,519 kHz.

16-Apr-07, Monday;- 2000 UTC, 10,128 kHz, "105 105 105 1", DK/GC "895 54" x 2, mod low but readable.

2020 UTC, 9,069 kHz, second sending, low mod and noisy frequency making copy difficult.

2040 UTC, 7,519 kHz;- third sending, S9+ signal and quite reasonable mod., by far the best sending of the three.

18-Apr-07, Wednesday;- 2000 UTC, 10,128 KHz, "105" and "895 54", as on Monday;- S9+ and with mod. much better than usual.

Repeated 2020z, 9,069 kHz, also with better than usual audio, and 2040z, 7,519 kHz, not quite so wonderful in the modulation department.

#### Thursday Schedule:-

12-Apr-07;- 2030 UTC, 7,526 kHz, not found E07 on a Thursday since February, discovered by chance this evening, must be the second sending. "358 358 358 1", DK/GC "929 77" x 2. Strong signal, mod. much better than the average E07 these days!

2050 UTC, 5,884 kHz, "358" and "929 77", inside 49 metre band, - it seems to be a firm principle with E07 that at least one of the three sendings must be inside a broadcast band! - reception best with the receiver in LSB mode. As far as I am aware this schedule only appears on a Thursday so I will have to wait until the 19th to investigate further.

19-Apr-07;- 2030 UTC, 7,526 KHz, "358 358 358 000", second sending, missed first transmission at 2010z, suddenly realised what the time was at around 2014z and went into "frantic search mode"; all in vain because a "000 - no message" only lasts for two minutes and would have been over and done soon after 2012z. [Thanks PoSW]

#### RNGB's Logs:

Thur 1st March	2130	5836	'584' 1 427 48 47402 52658 etc
	2150	4497	'584' repeat
Sun 4th	1800	9923	'906' 1 256 97 97181 81106 etc
	1820	9068	'906' repeat
	1840	7697	'906' repeat
Mon 5th	2020	6968	'892' 1 752 31 78956 71729 etc
	2040	5253	'892' repeat
Weds 7th	1100	12163	msg in progress; 51 groups starting 20272
Wed 18th April	2000	10128	'105' 1 895 54 54231 33114 etc
	2020	9060	'105' repeat
	2040	7519	'105' repeat
Thurs 19th	2030	7526	'358' 000
Weds 25th	1700	12123	'171' 000
	1720	10703	'171' 000

	2000	10128	'105'	1 256 42 81601 08041 15348 etc
Sun 29th	1720	10703	'171'	1 513 50 24801 55744 68054 etc
	1740	8123	'171'	repeat

Rest of Logs, [with duplication]:

5253kHz 2143z	05/03 good crisp audio missed start up ends 000 000 S&D	MON
5836kHz 2130z	22/03[584 000] AF	THUR
7516kHz 2110z	22/03[584 000] AF	THUR
9068kHz 1820z	28/03 [906:1 good] AF	SUN
9923kHz 1800z	18/03 [null msg] AF	SUN
1800z	18/03 [no detail] AF	SUN
1800z	28/03 [906:1 good] AF	SUN
12163kHz 1100z	07/03[51 group message starting20272] RNGB	WED

E10 [ O ]

Mar 07

Frequencies in use (USB) + Callsigns

2743	ULX2
3150	PCD2 * PCD-1
3230	KPA2
3270	MIW2
3557	CIO2
4270	PCD2
4461	FTJ2
4648	SYN2
4780	COI2
4880	ULX * ULX2 * ULX-1
5091	JSR2 *JSR
5170	VLB2 * EZI2
5230	MIW2
5339	KPA2
5435	ART * ART2
5437	ART
3557	CIO2
5820	YHF2 * JSR
6210	FDU-2 * FDU-L
6270	ULX
6428	ABC
6498	PCD2
6840	EZI * EZI2
6842	EZI
7918	YHF-1 * YHF2
8805	PCD2
9130	EZI2
9202	YHF
10648	YHF

Special Strings Heard/Reported During Mar 07

Nothing Heard or Reported During March

Other Recorded Activities & Comments

26/2 0002hrs 5435 ART G17 FZJZF R  
 26/2 0031hrs 3150 PCD2  
 26/2 0035hrs 5437 ART G25 PQKQN  
 26/2 1830hrs 9130 EZI2  
 26/2 1831hrs 6270/4880 ULX G43 HZJOL  
 26/2 1846hrs 5170 VLB2  
 26/2 1900hrs 6840 EZI G76 VCSAO  
 26/2 1915hrs 5339 KPA2  
 26/2 1915hrs 5230 MIW2  
 27/2 1531hrs 8805 PCD2  
 27/2 1549hrs 6210 FDU-2  
 27/2 1646hrs 6210 FDU-L  
 27/2 2103hrs 6428 ABC  
 28/2 2145hrs 5170 VLB2  
 28/2 2200hrs 4880 ULX2  
 28/2 2200hrs 5091 JSR2

(Credit Manolis)  
 (Credit JM Romero, Ary B, S&D, J.Schafer KOPF between 2100-2200hrs)

28/2 2200hrs 5435 ART2  
 28/2 2201hrs 6842 EZI G74 ESSBD R  
 28/2 2215hrs 5339 KPA2  
 28/2 2215hrs 5230 MIW2  
 28/2 2230hrs 5820 YHF2  
 28/2 2230hrs 5435 ART2  
 28/2 2233hrs 4880 ULX-1  
 01/3 1815hrs 5230 MIW2  
 01/3 1830hrs 6270/4880 ULX G43 HZJOL R  
 01/3 1845hrs 5170 VLB2  
 01/3 2130hrs 5820 Commenced JSR then changed to YHF2 (Credit S&D)  
 01/3 2201hrs 6842 EZI G74 ESSBD R  
 01/3 2215hrs 5339 KPA2  
 01/3 2215hrs 5230 MIW2  
 02/3 2300hrs 5435 ART G157 XYIUX R  
 03/3 1130hrs 7918 YHF-1 (Credit Alpha)  
 03/3 1330hrs 10648/9202 YHF G10 ABINC  
 03/3 2201hrs 6842 EZI G74 ESSBD R  
 03/3 2202hrs 5435 ART2  
 03/3 2202hrs 5091 JSR2  
 04/3 0016hrs 3230/5339 KPA2  
 04/3 0016hrs 3270 MIW2  
 04/3 1900hrs 6840 EZI G73 LHD?Z  
 04/3 2100hrs 4461 FTJ G167 EL??F  
 05/3 1830hrs 6270 ULX G43 HZJOL R  
 05/3 1900hrs 4880 ULX2  
 06/3 1600hrs 7918 YHF2  
 06/3 2300hrs 6270 ULX G75 RTVKZ R  
 07/3 2030hrs 6840 EZI G13 QRSAB  
 07/3 2300hrs 5435 ART G157 XYIUX R  
 07/3 2333hrs 5170 EZI2 (Normally VLB2 freq)  
 07/3 2345hrs 5170 VLB2  
 07/3 2346hrs 4780 CIO2  
 07/3 2346hrs 4648 SYN2  
 08/3 0001hrs 5435 ART G17 FZJZF R  
 08/3 0016hrs 3270/5230 MIW2  
 08/3 0016hrs 5339 KPA2  
 09/3 2309hrs 6270 ULX G75 RTVKZ + ULX?? G44 ZPOXE .  
 Both stns transmitting on same freq at same time I could not confirm the strongest signal as ULX (G44) having missed the opening calls but the G75 RTVKZ is a current repeated transmission by ULX. Both stns completed their stated group numbers.  
 09/3 2345hrs 5170 VLB2  
 09/3 2345hrs 4648 SYN2  
 09/3 2345hrs 4780 CIO2  
 10/3 0001hrs 5435 ART G17 FZJZF R  
 10/3 0015hrs 5339 KPA2  
 10/3 0015hrs 5230 MIW2  
 10/3 2040hrs 6840 EZI G96 ?????  
 10/3 2300hrs 5435 ART G157 XYIUX R  
 11/3 2115hrs 3230 KPA2  
 11/3 2131hrs 6498 PCD2  
 11/2 2131hrs 5435 ART2  
 11/3 2145hrs 5170/3360 VLB2  
 11/3 2203hrs 5091 JSR2  
 11/3 2231hrs 7918 YHF2  
 12/3 1900hrs 4270 PCD G30 YGMFS  
 12/3 1930hrs 4270 PCD G29 MVTVJ  
 13/3 1900hrs 3150 PCD-1 (Credit Ian Wraith)  
 13/3 1930hrs 4270 PCD G15 JIDJW (I.W)  
 13/3 2331hrs 4270 PCD2  
 13/3 2331hrs 6840 EZI2  
 13/3 2345hrs 3360/5170 VLB2  
 13/3 2345hrs 3640/4648 SYN2  
 13/3 2346hrs 4780 CIO2  
 14/3 0001hrs 5435 ART G17 FZJZF R  
 17/3 between 1800hrs & 2130hrs SAT: Some interesting changes to freqs & C/s these were noted by Alpha@E10 which I have entered below  
 1800hrs YHF-3 Interesting idler  
 1900hrs PCD-1  
 4880 FTJ instead of ULX2  
 5091 PCD2 instead of JSR  
 6498 ULX2 instead of PCD2  
 20/3 2200hrs 6842 EZI G74 ESSBD R  
 20/3 2231hrs 5091 JSR G82 EJS?G  
 22/3 2145hrs 3557 + 4780 CIO2  
 22/3 2145hrs 5170 VLB2  
 22/3 2216hrs 5230 MIW2  
 22/3 2216hrs 5339 KPA2  
 22/3 2300hrs 5435 ART G157 XYIUX R  
 22/3 2330hrs 5435 ART2  
 22/3 2330hrs 6840 EZI2  
 24/3 2031hrs 5435 ART G97 ?IUFH  
 25/3 1930hrs 4270 PCD G21 CUZOE (Credit S&D)

25/3 2200hrs 4461 FTJ G30 CRXXX (S&D)  
 25/3 2130hrs 6840 EZI G71 HHSQG (S&D)  
 25/3 2230hrs 6498 PCD2  
 26/3 2330hrs 5091 JSR G19 MSYQW  
 30/3 1900hrs 4461 FTJ2  
 30/3 1900hrs 4880 ULX2  
 30/3 1916hrs 5230 MIW2  
 30/3 1916hrs 5339 KPA2  
 30/3 1932hrs 5435 ART2  
 31/3 2345hrs 3557/4780 CIO2  
 31/3 2346hrs 5170 VLB2

#### E10 Desk For April 07

##### Frequencies in use (USB) + Callsigns

2743	ULX2
3150	PCD2 * PCD1
3230	KPA2
3557	CIO2
4270	PCD3
4461	FTJ
4648	SYN2
4780	CIO2
5170	VLB2
5230	MIW2
5339	KPA2
5435	ART2 * ART
5820	YHF2
6270	ULX
6498	PCD2 * PCD
6575	HNC-F
6840	EZI * EZI2
6842	EZI
7358	FTJ2
7540	JSR
7918	YHF2
9130	EZI2
9202	YHF

##### Special Strings Heard/Reported During April 07

Nil Reports as at 23 April 07

##### Other Recorded Activities & Comments

1/4 0001hrs 3150 PCD2		
1/4 0001hrs 5435 ART G157 XYIUX	R	
1/4 1910hrs 6840 EZI G97 JFKJM + G?		
1/4 1930hrs 6840/9130 EZI2		
1/4 2300hrs 6842 EZI G74 ESSBD	R	
1/4 2300hrs 5820 YHF2		
1/4 2330hrs 7918 YHF2		
2/4 1800hrs 6270 ULX G47 PQYXF		
2/4 1800hrs 6498 PCD2		
2/4 1800hrs 6840 EZI G63 R?SNU + G40 EXS?A		
2/4 1848hrs 4780 CIO2		
2/4 1848hrs 5170 VLB2		
3/4 1930hrs 4270 PCD G27 UYHSB		
3/4 2030hrs 6840 EZI G32 CDGIQ		
3/4 2130hrs 5435 ART G97		
7/4 1900hrs 3150 PCD1		
7/4 1930hrs 4270 PCD3		
10/4 1730hrs 6498 PCD G157 PAHWQ	R	(Only 20 Groups readout during repeat Time elapsed)
10/4 1800hrs 6498 PCD2		
10/4 1801hrs 6840 EZI2		
10/4 1802hrs 7358 FTJ2		
10/4 1802hrs 6270 ULX G47 PQYXF	R	
10/4 1815hrs 5339 KPA2		
10/4 1815hrs 5230 MIW2		
10/4 2347hrs 5170 VLB2		
10/4 2347hrs 4648 SYN2		
10/4 2347hrs 3557 CIO2		
11/4 0001hrs 3150 PCD2		
11/4 0001hrs 6270 ULX G75 RTVKZ	R	
11/4 0016hrs 3230 / 5339 KPA2		
11/4 0016hrs 5230 MIW2		
11/4 2200hrs 6498 PCD G38 OEOTX		
11/4 2231hrs 9130 EZI2		
13/4 1930hrs 4270 PCD G24 QLPZM	R	(Credit Ian Wraith)
13/4 1931hrs 4880 ULX G43 HZJOL	R	
14/4 1900hrs 4270 PCD G10 NOCJJ		(Credit Alpha & Ian Wraith)

14/4 2353hrs 6575 **HNC-F** (Credit Jose Miguel Romero)  
 15/4 1908hrs 6840 EZI G23 ????? (Fuze Blew at begining of repeat)  
 15/4 1947hrs 5170 PCD2  
 18/4 2208hrs 6842 EZI G74 ESSBD **R**  
 22/4 1900hrs 4270 PCD-I  
 22/4 1902hrs 4463 FTJ2  
 22/4 1919hrs 5339 KPA2  
 22/4 1930hrs 4270 PCD G14 QUSYO

E10 Fanatics The Bigger YHF.

We are all aware of the excellent works in the world of E10 by E10 Agents Alpha, Manolis & Ian Wraith and here is the latest BIG story from our busy agents: This was a very recent message from YHF 350 groups in all, picked up by Alpha who asked if it could be included in this months E10's contribution for NL40.

Happy To Oblige Fellows !!!

Freq's and timings when heard

0630z 5820 7918  
 0900z 5820 7918  
 1230z 5820 7918  
 1900z 2844 3840

**YHF 3M M G120 T**

VYIBC IIIHZ ILYFC VGRMC IHMEM GTFSD UECWY GAKPP KEVAO LMKLT  
 PNBLY CMOIF SJDAE RDBNX IBIIJ RXJRL VFDZI KUCGU XDEBX SOSMN  
 NWYGP TVGPZ RZAYG CEWCA DHNSC TVEOE XCXPG CDOMC XKRFG YLUSJ  
 IGJSW YUURB YSFBK UTLQV ZVAYV XWYMM HUVYL CGQNM DMVOT QQBNG  
 DPVFA PBLWM KBCQI VXEEA FMAEI FWUJR BFKBY WDUQV IBTDD BSFHK  
 HSAMT VPIOM LLSYL WGTBP JVVNO AFJXL DIMOD MNENE PQMEF ECXRM  
 WLNLV AGYHK DOBYV ZZMHM XHWMJ NKDJL YKHZN AJQKF LGOBD FTEOP  
 NLJPW CCBLD CZXNB BTRAV VPMZV KGESR RFNHK IYKRA QSFVW UKZFM  
 QXFRF YCGXD KBFMS GJCQR HBGSE FGBPM EMPFF QOZSS VGDQK QUMGA  
 DLNFA GXZBI GRDWT OJDGP FSBGR AHZZM LJDVC BFJKZ DMLGM ORDAB  
 HNRLL CKPMD JARBJ UAAEZ RYCAJ CGYNT QVMZV DMYSY HOIOS ZPMOL  
 CWJPF QLKHH TOFUC XWBDH FOXNR UVZQB TAUHU OBNLD QZRDJ MFQFV  
 eom.

**M G120 T**

CPUSH LVIEL CVQTA COGBP XIGNB HLDLY CSPSE WYFZT BNPZH PBJIX  
 DTXFQ KADSW UUSBD FJOWB SDVCZ QUBJG MNDPT MUQCY QKCCG NZHER  
 RNMZT JBNK DKLXM HFELQ BGJKH KDVRU VPWFN ZRKKP RJNRT EPPXT  
 HYXIC UGDOW RLXLO OZVCL VJUIF MHTPX FNMBF RQKND QOFYO PVCTU  
 MDUKC MVJFT GXLVI XTCWA YIMDW BDZBM FSIII IHQIA VGFWM EFNLL  
 FFTHK TYPEL MCESE DDGHS ZPDCX MZBLZ EOVIK OZSGK ALLPQ AMSET  
 EJWTY XEXXI GOYEB MRAXL DSWJC ABMSK OJTDF XZUQS WFVAO APGUF  
 WTXPI IVTFI PSXLG XWVHI GVRWX BECSN UCPTS LNFNZ IKBRR SNIQN  
 YWSKI CJROK MGJBQ XSCOT YNEGX MWLFT VUPYF MXXNZ IQFDZ JWNLP  
 YBLXR QFYII NOCGL EBCYH OSCXR QTUYB MIHQU GPHFJ AXZYH ZOASC  
 EZUZZ ETLSZ CZTSH CYMRA KONPC CJZAD HUMBQ BUJRG CRNFL JRBCP  
 HJOEU NNHPL RFQZA ZYUWT HBQXN KWSHA YDIWZ STDOK POHBX DYOBP  
 eom

**M G110 T**

ZNAHM BUXEU AXZHK KXXEM VZXHN SEISB QSSKV SNKRE EQCMG DIXGU  
 VJHVG RXEMR GPDZP RHTFX ZDZDN FEEUW GXZCG SAYRV XTJWX QVEST  
 TVLQI KOWME XYKNO ZCRKL DEXUW YRJFU BPGBF ZYZRO EOSIY UCEHE  
 AAUEB KOTFC IBJYR DGOHA EABXD YXHMG WNOEU VWFBW RJBVT LZSOA  
 MZFAV QQDGA PQGKY JDZHX TTNEP EOBZL GZVSH HNKZC ABGNC TOSKE  
 MRAAX BPUTR RUSTZ DVXYQ PZEZI QKTMK HFBDF PCORE HPCNX UHHYC  
 GSXVG MRXEV NNINM GFHSZ FSTAM VPHJR GTMHW ZNUAA PJPNX UKLNC  
 HCEBH PUHJY YFDYO EPFSY SIXSX LUTSN FRFAX QYRUG WKMLS VYJGX  
 URIGS WFSPU URCSA TTBWC KJQLS JFFJK JJXHM RUADJ YALTX KQNZX  
 PWMEB GCAYP ZTCRL DGNLG HEWQU GQMVV UTYGT QYYIL RMDYT BSURR  
 XEYEB PYJGU WPTPT HNXDW QLCNU NLUHU LPBIQ PETNZ ASXFW LZKGJ  
 eom eot

This sample was just to show whats going on there...Enjoy!

**BMLongfield E10 Desk**

**April 07** [Tnx Bob]!

*Some logs via our German Branch:*

3840kHz 2304z	26/04[YHF" better in SSB due to carrier nearby; msg 44 groups beginning ZPOXE HGGTQ VVSOT UZWVA CIAQE DQVNY LQWKH AOEWV HMSZP EQSWT ZSCXK UCJLN HRLUD YFTRL]	DanielE2Kde	THU
4560kHz 2309z	26/04[i/p //3840 (repeat starts with same groups);] strong S>9 but QRM	DanielE2Kde	THU
4880kHz 2234z	18/04["ULX2" ending 223420z weak]<S1	DanielE2Kde	WED
2307z	26/04[i/p] DanielE2Kde		THU
5435kHz 2314z	26/04[i/p; strong] S>9 but QRM	DanielE2Kde	THU

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

### MARCH

6252kHz	1630z	02/03(287/00) FN	Fri	
	1630z	05/03(287/00) FN	Mon	
	1630z	06/03(287/00) FN	Tue	
	1630z	07/03(287/00) FN	Wed	
	1630z	08/03(287/00) FN	Thu	
	1630z	10/03[287/00] mixed with Japan diplo PSK station "Slotmachine" XS. Poacher Russia	SAT	
	1630z	30/03[287/00] Strong AF	FRI	
8196kHz	0915z	02/03(284/00) FN	Fri	
	0915z	05/03[284/00] JoA	MON	
	0915z	06/03(284/00) FN	Tue	
	0915z	07/03(284/00) FN	Wed	
	0915z	08/03(284/00) FN	Thu	
	0915z	09/03[284/00] no message. Strong signal S9. Poacher Russia	FRI	
	0915z	13/03[284/00] JoA	TUES	
	0915z	16/03[284/00] S3 QSB QRN JoA	FRI	
	0915z	19/03[284/00] S1 JoA	MON	
8544kHz	1230z	02/03(312/00) FN	Fri	
	1230z	09/03[312/00] no message. Very strong signal S9+++ Poacher Russia	FRI	
	1230z	16/03[312/00] S0 QSB JoA	FRI	
8759kHz	1030z	02/03(312/00) FN	FRI	
	1030z	06/03[312/00] QRN JoA & AF	TUE	
	1030z	09/03QRM, weak signal "??/00", probably no message. Poacher Russia; [312/00] AF	FRI	312/00 per RNGB
	1030z	16/03[312/00] S1 QRN JoA	FRI	
	1030z	20/03[312/00] AF	TUE	
	1030z	23/03[312/00] AF	FRI	
	1030z	30/03[312/00] AF extremely weak	FRI	
9576kHz	0845z	08/03(232/00) FN	THU	
	0845z	09/03[232/00]RNGB	FRI	
9610kHz	1100z	07/03[186/00] RNGB	WED	

### APRIL:

From RNGB & H-FD:

Wed 4 <sup>th</sup> April	1100	9610	186/00 H-FD
Fri 13 <sup>th</sup> April	1230	8544	312/00 RNGB
Tues 17 <sup>th</sup>	1115	12229	193/00 RNGB
Thurs 19 <sup>th</sup>	0845	9576	232/00 H-FD & RNGB

E11b **No Reports**

### E15 [ O ]

E15 Schedule assembled by Manolis during spring 2005:

UTC	Mon	Tue	Wed	Thu	Fri	Sat	Sun	CALL
<b>0700</b>	6715	6715	6715	6715	-	6715	6715	NAS
<b>0800</b>	-	-	-	-	-	-	-	-
<b>0900</b>	-	-	-	-	-	-	-	-
<b>0945</b>	6715	6715	6715	6715	-	6715	6715	VSD
<b>1100</b>	18000	18000	18000	18000	-	18000	18000	BEC
<b>1130</b>	6715	6715	-	6715	-	6715	6715	PAR
<b>1200</b>	5834	5834	5834	5834	-	5834	5834	WSP
<b>1230</b>	-	11170	11170	11170	-	11170	11170	OSS
<b>1300</b>	-	-	-	11170	-	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)		S – SUSAN

T – THOMAS  
X – XRAY

U – UNION  
Y – YOUNG

V – VICTOR  
Z – ZEBRA (ZERO / ZULU)

W – WILLIAM

A surprise intercept from Poacher in Russia:

14727kHz 0840z 12/03 Details via [http://strangesignals.narod.ru/audios/unid\\_signals/END\\_ROVER.mp3](http://strangesignals.narod.ru/audios/unid_signals/END_ROVER.mp3)

The ending was recognised by manolis also, see: <http://hfsurfing.blogspot.com/>

E17 [ 1A ]      **No Reports**

E17z

10240kHz 1512z 04/04[274] Weak H-FD

WED

E23 [ XI ] Frequencies and Times. All SSB [From AnonUK]

Since December 2004 skeds have become erratic, and may not stick to correct weeks. Some voice transmissions have been heard in week 2  
Week 1 Usually starts on the first Monday of the Month, but there have been variations to this.

Times are not rigid, has been known to start as early as Hour + 52

[Tnx AnonUK].

	Week 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
Wednesday					1257	6507		
	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

E25 [ O ]

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

222 275 315 440 449 555 720 730 780 788 (835 837 Arabic counting) 906

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

200 209 220 227 230 270 272 276 277 317 377 430 440 557 559 635 737 784 785 788 830 833 837 905 909

News:

Most transmissions in the past two months were in LSB-suppressed mode: Carrier, USB and only a hint of the LSB component. Is this an attempt to fight against DRM QRM or a transmitter malfunction? The sound quality is worse anyway.

Summer time change brought a strong DRM transmission on 9450 kHz, commencing at ~1247z and before that, a short burst happens at ~1203z. This is probably Voice of Russia. <http://www.baseportal.com/cgi-bin/baseportal.pl?htx=/drmdx/main&sort=kHz.UTC> has more info about VoR DRM if you scroll down near the middle of the page and click the UTC entries for 9450 kHz: VoR transmits at 1300z-1700z in several languages, from Taldom (56.44N 37.38E) with 35 kW, beaming 260°. In the same web page you can see a coverage map and an antenna photo. Luckily the beam misses me, but unfortunately this is not the case for most of the rest European DXers. E25 reception is still adequate in my location if it is AM, despite the DRM QRM, but more problematic when E25 operators decide to use USB. There is also a weak BC station at ~1200z, probably Trans World Radio, which doesn't cause any serious problems.

"Egypt normally observes DST between the last Thursday in April and the last Thursday in September when the clocks are three hours ahead of Greenwich Mean Time (UTC+3). The change is at midnight (local time); i.e. one second after 23:59:59 on that Thursday becomes 23:00:00 Thursday. The date does not change when the first 00:00 midnight occurs; for all practical purposes, midnight does not occur until after the *second* 23:59:59. However, the 2006 rule is an exception: the clock falls back September 22 at 01:00 so as not to disrupt Ramadan, and possibly similar exceptions will apply in 2007 and 2008." [Wikipedia]

Unfortunately not much activity since February, mostly control messages and some surprises; read on!

After being inactive for 3 years, ID 559 reappeared, but without a message. ID 227 not logged for the last 2 years, had a control message. And two new ID's appeared: 315 with a short message and 317 with a control message.

Agents 559 & 830 were called but not given any message; operator's mistake?

A new song found again by TZ, "Seret Elhob" (Talk of Love), also performed by Umm Kulthum.

A couple of broadcasts featuring oriental music occurred outside the usual time frame. Also 1000 Hz tone-only transmissions appeared in late March, persistent for many hours.

Logs in short:

March

8 1212z IO 830 22 USB  
 10 1114z 315 8138 4621 2160 2294 4621 2349 new ID  
 10 1124z 315 8138 4621 2160 2294 4621 2349 recorded repeat?  
 11 1114z 317 11 USB new ID  
 11 1244z 785 36 37 USB  
 12 1213z IO 830 23 USB  
 16 1158z IO 830 24  
 18 1212z IO 830 25 USB  
 20 0912z Oriental music only  
 20 1205z IO Arabic 835 4161 1670 8306 6915 2316 4857 7669 3826 1641 1951 1770 7668 1767 8365 1670 7172  
 21 1212z IO 830 26  
 22 1212z IO 830 27 USB  
 23 0738z ALM music only  
 24 1218z ALM 555 4252 7111 8531 9441 4420 4199 2523 9941 0308 2425 8531  
 25 1211z IO 830 28 USB  
 25 1226z ALM 559 USB no message!  
 25 1244z 788 38 39 40 USB  
 26 1250z 788 38 DRM QRM  
 27 1226z ALM 557 6 under 1000Hz tone  
 30 1316z ALM 227 2 DRM QRM  
 31 1119z Oriental music only, IO & ALM  
 31 1202z IO 830 29

#### April

1 1150z 277 5 270 3 4  
 3 1157z 277 6 270 3 4 USB BC QRM  
 4 1208z IO 830 30 weak USB BC QRM  
 6 1157z IO 835 Arabic 5131 8390 1867 5967 6596 1430 4874 9677 5487 0412 5691 8390 7617 USB  
 8 1203z New song by Om Kalthoum, "Seret Elhob", 830 no message!  
 14 1240z 1000 Hz tone 785 42 43 DRM QRM  
 21 1220z ALM 555 1059 8151 5120 9287 4423 6163 8808 2196 2194 4790 2679 6347 4103 9932 5120

Note: ALM stands for the song title "Arouh Le Min" and IO for "Inte Omri". Transmissions always on 9450 kHz, in AM mode except otherwise noted.

#### In detail:

E25 9450 kHz 1212z 08/03 ["Inte Omri" bad audio, OM 830 22 best on USB QRT 1220z] MG THU  
 E25 9450 kHz 1114z 10/03 [AM no intro OM calling 315 NEW ID g6 msg, QRT 1121z. Excellent signal & audio] MG SAT  
 E25 9450 kHz 1124z 10/03 [AM no intro 315 then taped repeat of previous TX QRT 1134z] MG SAT  
 Probably the second transmission was played back after being recorded at 1114z. I measured the time lengths of a couple of pauses between numbers and they were the same among the two transmissions.

E25 9450 kHz 1114z 10/03 [317 11 NEW ID excellent audio QRT 1120z no EOM/EOT best on USB] Izzywizzy & MG  
 Izzywizzy logged E25 via DX Tuners, using a receiver located in southern Sweden.

E25 9450 kHz 1244z 11/03 [785 36 37 LSB suppressed] MG SUN  
 E25 9450 kHz 1213z 12/03 ["Inte Omri" 830 23 repeated, USB mode] MG, Mndbs, TZ MON  
 Mndbs measured a weak S5 signal in USB mode, while I had S9+ peaks. Also picked by TZ via DX Tuners Sweden confirming "830 23" instead of "830 28" mentioned by Mndbs.

E25 9450 kHz 1158z 16/03 [AM mode, "Inte Omri" intro, OM 830 24 rptd QRT 1219z] MG FRI  
 Brief carrier with music also appeared at 1118z.

E25 9450 kHz 1212z 18/03 [LSB suppressed, "Inte Omri", OM 830 25 rptd] MG, DanielE2Kde SUN  
 DanielE2Kde logged this also at 1220z: "Guessing something like a weak carrier in AM and after switching to USB I heard 3 times something like "330 271" just above the noise (last number not clearly readable even when listening to the recording repeatedly.)"

E25 9450 kHz 0912z 20/03 [Carrier 0904z, music with high gain then op chat and lower gain, bg noises. AM mode, excellent signal strength, some splatter from 9460 kHz] MG TUE  
 E25 9450 kHz 1204z 20/03 [AM, chat & "Inte Omri" then silence, "Inte Omri" 835 repeated, g16 message in Arabic. QRT 1234z. Excellent to very good signal] MG, AV TUE  
 Let's look a little deeper in the format of an Arabic message:

1416/4161 → serial = 14, gc = 16  
 6170/1670 → repeated group (unique), 70 not reversed  
 3860/8306  
 9651/6915  
 3261/2316  
 8475/4857  
 6796/7669  
 8362/3826  
 6114/1641  
 9115/1951  
 7170/1770 → 70 not reversed  
 6786/7668  
 7176/1767  
 3856/8365  
 6170/1670 → repeated group, 70 not reversed  
 1727/7172 → what I call "the third group" in the NL #39 E25 article



Serial was 14, the last message to 835 occurred on 17/2 with serial = 12. So I probably missed one message...  
AV had a S7+ signal in his QTH with crackling noises.

E25 9450 kHz 1212z 21/03 [suppressed LSB, "Inte Omri" OM clg 830 26] MG WED  
E25 9450 kHz 1212z 22/03 ["8...", "Inte Omri", "...30 27" OM 830 27 rptd LSB suppressed] MG, FN THU  
E25 9450 kHz 0738z 23/03 [AM, music only with some TX failures, QRT 0831z] MG, TZ FRI  
TZ thought it was USB and I haven't recorded the transmission so couldn't recheck. Activity noted on 9450 kHz by Whitewolf also at 1346z with no further info available.

E25 9450 kHz 1218z 24/03 ["Arouh Le Min" then seriously-sounding OM clg 555 g11 msg. AM mode, excellent signal strength] MG SAT  
Message:  
4252 7111 8531 9441 4420 4199 2523 9941 0308 2425 8531

Repeated group: 8531 (unique).  
2nd group: 7111→71→17 = serial. Last message to Agent 555 was on 21/2/2007 with serial = 16. So nothing lost!  
Group count test: 11→11 = group count.

So Mr. "555" still likes "Arouh Le Min" broadcasted at 1230z!

E25 9450 kHz 1211z 25/03 ["Inte Omri" 830 28 rptd, LSB-suppressed] MG SUN  
E25 9450 kHz 1226z 25/03 ["Arouh Le Min" 559 rptd, LSB-suppressed, NO MESSAGE] MG SUN  
559 is an old ID, appeared once on 26/3/2004. Very interesting! Reappeared exactly after 3 years!

E25 9450 kHz 1244z 25/03 [788 38 39 40, LSB-suppressed] MG SUN  
E25 9450 kHz 1250z 26/03 [788 38 LSB-suppressed, DRM QRM] MG MON  
A 1000 Hz tone was present almost for the whole day, full strength on my portable.

E25 9450 kHz 1226z 27/03 ["Arouh Le Min", mic blows, OM clg 557 6 under the 1000 Hz tone] MG TUE  
Music and control message recovered using a lot of sound processing. Another day with the annoying tone blasting my radio, which probably forgot to turn it off and sent the control message carelessly along with it!

E25 9450 kHz 1316z 30/03 ["Arouh Le Min" over DRM, 1350z OM 227 2 rptd QRT 1353z] MG FRI  
The DST clock change may not affect E25 at this time, but affected the BC stations and now I have a nice S7 DRM QRM. I suppose it is VoR. Agent ID 227 last logged on 17/9/2005!

E25 9450 kHz 1119z 31/03 [A couple of seconds of "Inte Omri"] MG SAT  
E25 9450 kHz 1202z 31/03 ["Inte Omri", OM 830 29 rptd QRT 1220z, low audio] MG SAT  
E25 9450 kHz 1150z 01/04 [OM 277 5 270 3 4 rptd] MG SUN  
E25 9450 kHz 1157z 03/04 [OM 277 6 270 3 4 rptd LSB suppressed, BC QRM] MG TUE  
E25 9450 kHz 1208z 04/04 ["Inte Omri" LSB-suppressed, very-very weak audio then, 830 30 recovered after audio processing] MG WED  
E25 9450 kHz 1158z 06/04 ["Inte Omri" LSB suppressed, low audio, OM clg 835 rptd then other OM 13 grp Arabic msg even lower audio. Audio a bit stronger near rpt. QRT 1224z] MG FRI  
Message in Arabic:  
5131 8390 1867 5967 6596 1430 4874 9677 5487 0412 5691 8390 7617

Repeated group: 8390 (unique).  
First group: 5131→31→13=group count, 51→15=serial. Last message sent to Agent 835 on 20/03/2007, serial was 14 (no message lost!)

E25 9450 kHz 1203z 08/04 ["Seret Elhob", 1217z OM clg 830, music in the background, NO MESSAGE, music still on at 1227z] TZ SUN  
TZ wonders if that was a mistake...

E25 9450 kHz 1240z 14/04 [1000Hz tone OM 785 42 43 rptd excellent AM signal, short break at 1247z. Slight DRM QRM starting at 1247z. QRT 1251z] MG SAT  
Agent 785 keeps his habits: No musical intro, tone, and a message xx45z!

E25 9450 kHz 1220z 21/04 ["Arouh Le Min", 555, g15 msg, AM, excellent signal, RTTY QRM] MG SAT  
Message:  
1059 8151 5120 9287 4423 6163 8808 2196 2194 4790 2679 6347 4103 9932 5120

Note group 8 and group 9: 2196 2194.  
Repeated group: 5120 (unique).  
Second group: 8151→51→15 = group count and 81→18 = serial, last message to 555 was on 24/3/2007 with serial 17.

Thanks AV, DanielE2Kde, FN, Izziwizzy, Mndbs, TZ, and Whitewolf for your logs & comments!

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

The long established G06 schedules continue as we in the Northern Hemisphere progress through spring towards summer, i.e. the first Monday in the month 1900 + 2000 UTC, twice a month Thursday 1830 UTC - although at the moment this is inside the 49 metre broadcast band and is often somewhat difficult to copy - and at 1930 UTC on the following Friday; and the 2200 UTC Saturday schedule has continued into April. All have, as expected, remained on UTC following the advancing by one hour of the clocks for summertime on the last Sunday in March and so appear one hour later clock time.

#### First Monday in the Month 1900 + 2000 UTC Schedule:-

5-Mar-07:- 1900 UTC, 6,870 kHz, "308 308 308 00000", S9+ signal, lower sideband suppressed as (almost) always with this family of stations. Same frequency, within five KHz, as in March of last year and in 2005.

2000 UTC, 5,190 kHz, "308 308 308 00000", second sending, again a strong signal on the same frequency used in past two years.

1-Apr-07;- 1900 UTC, 8,055 kHz, "308 308 308 00000". Very strong signal, same frequency used for the first sending in April last year and in 2005. Carrier with tone was up this evening at 1844z, single spoken "Drei null acht" 1847z and then went into "concealment" mode with just a very short burst of carrier two or three times a minute until start-up on the hour.

2000 UTC, 6,930 KHz, second sending, again same frequency as in April last year.

#### Thursday 1830 UTC Schedule:-

8-Mar-07;- 5,926 kHz, call "597", DK/GC "402 402 25 25", inside 49 metre band, difficult copy due to strong BC station on 5,930. The expected seasonal change of frequency as noted in March of previous years when frequencies such as 5,931 and 5,934 were used, 4,519 KHz having been used in the winter months.

I would have expected the Thursday 1830z G06 to have showed up on 22-March but nothing heard despite carefully tuning from 5,920 to 5,950 kHz. I am sure it must have been there somewhere under all the S9++ broadcast crud because there was a transmission at 1930z on the following day, i.e. Friday 23-March on the expected frequency.

12-Apr-07;- 5,934 KHz, call "597", DK/GC "783 783 29 29", no problem in finding G06 this evening, a carrier on 5,934 found at 1807z. Usual BC QRM as expected with any number station which chooses to set up shop inside the 49 metre band but not too bad copy with the receiver in USB mode.

#### Friday 1930 UTC Schedule:-

9-Mar-07;- 5,442 kHz, started approx. 30 seconds before the half hour, seasonal change of frequency from 4,792 KHz used in the winter months, calling "947", DK/GC same as yesterday's 1830z sending, "402 402 25 25". S9 signal with lower sideband well suppressed.

23-Mar-07;- 5,442 kHz, "947" and "402 402 25 25", same as when last heard on the 9th. S9+ signal, carrier was warming up the frequency when checked just after 1900z. Something of a surprise to find G06 on this evening since yesterday's 1830z sending managed to hide itself away.

13-Apr-07;- 5,442 kHz, call "947", DK/GC as per yesterday's 1830z transmission, "783 783 29 29", strong signal.

#### Saturday 2200 UTC Schedule:-

3-Mar-07;- 5,259 kHz, "843 843 843 00000", signal strength S7 at best with deep QSB to much lower level. G06 had been logged at 2200z on a Saturday in March last year on 5,252 kHz; nothing on this frequency but tuning 7kHz HF just after the hour found it. Was on 4,441 kHz in Jan and Feb.

17-Mar-07;- 5,252 kHz, where it should be!, "843 843 843 00000". Very strong signal, S9+ tonight. Carrier was up at 2150z.

7-Apr-07;- 5,252 kHz, continues in April, remains on UTC following the start of summertime so now appears one hour later local time - 11 PM in the UK. "843 843 843 00000". Very strong signal, S9+ with lower sideband well suppressed. Carrier was up on 5,252 when checked at 2143z and remained up until start-up on the hour, no "concealment" routine.

21-Apr-07;- 5,257 kHz, another slight variation of the frequency, "843 843 843 00000", massive S9+ signal, was in "concealment" mode beforehand; I was slowly tuning in the region of 5,252 for a few minutes before the hour and there was no steady carrier warming up but I was aware of the occasional quick burst of carrier of such short duration that it was not possible to be sure of its exact frequency. I lost contact with the 2200z Saturday G06 in May last year so if it is going to be on in the coming months it will probably move to a somewhat higher frequency. [Tnx PoSW]

#### March:

5190kHz 2000z	05/03[308 00000] RRGB and MalcF	MON
5442kHz 1930z	09/03[947 402 25 23957..] AF	FRI
1930z	23/03[947 402 25 23957..] AF	FRI

#### April:

5442kHz 1930z	27/04[947 – 783/29=25151]	FRI
5934kHz 1830z	12/04[597 – 783/29=05151]	THUR
6930kHz 2000z	02/04[308:0] H-FD	MON
8055kHz 1900z	02/04[308:0] H-FD	MON

G11[IIII] :            **No Reports**

#### SLAVIC STATIONS

**M10, S10d and S17c Listings****Chart 29 [Updated and amended]****1<sup>st</sup> March to 31<sup>st</sup> April, 2007**

Freq 1	Freq 2	Sun	Mon	Tues	Wed	Thur	Fri	Sat	Act Des
6945	8175			S0150	S0150				ALT
4485	6758							0210	R
4834				0310					R
4485	6833			0330		0330			R
4485	6758				0340				ALT
3522	4485		0400	0400		0400			R
4485	6763							0410	R
5471					S0410	S0410			R
3522	5301			0430		0430			R
				0430					R
5301	8190		0450	0450					R
4836	5804		S0450			S0450			R
5917		0535	0535		0535			0535	R
9455			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
5945	9166		1340	1340					ALT
8175	13648		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

Freq 1	Freq 2	Sun	Mon	Tues	Wed	Thur	Fri	Sat	Act Des
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 stated freqs  $\pm$  2kHz

Chart 29 above carries corrections and amendments and, providing no further changes Chart 30 will be used from 1<sup>st</sup> May 2007.

On Chart 29 it should be noted that there is one frequency change and four other frequencies found.

These are as follows:

<u>Time</u>	<u>F1/F2</u>	<u>Freq</u>	<u>Source</u>
0310z	F1	4834kHz	PLondon
0330z	F2	6835kHz [change from 6758]	PLondon
S0450z	F2	5804kHz	PLondon
S0540z	F1	9455kHz	DoK
1410z	F2	13648kHz	DoK

The triplet change from 1<sup>st</sup> November 2006 winter schedule continues and appears to have no connection with the frequencies used. However, a number of other changes have come to light and these will not interfere with the monitoring of this Group. Further analysis of these changes will be needed before they are posted.

S17c is one example, Sat 14<sup>th</sup> March DK 04 not 42 and again Thurs 26<sup>th</sup> March, 04 not 42. In both instances the triplet was 666 and the five figure group 54031.

The same five figure group 54031 was also sent on the 8<sup>th</sup> and 16<sup>th</sup> April with the triplet 666 and 333 respectively.

Over this two month period the almost continual use of 5301kHz has resulted in very poor reception, in my case a large number of transmissions were virtually unreadable.

A report that M11 has reappeared has been received by me; unfortunately I know not who from:

Wednesday 0800z on 7891kHz

I was able to confirm a transmission on Wednesday 21/03/07 at 0800z on 7891kHz.

A number of changes from the old M11, only a two message format [formerly four]; Different DKs [formerly the same for all messages].

I have listened for this station each day since heard but without success.

I am now showing the complete transmission, the repeats have been omitted for the purposes of clarity in structure:

0800z 111 68592 05 48592 05  
68592 20 05 = 'text' = 20 05  
48592 22 05 = 'text' = 22 05  
0809z No end sig.  
Excellent sending but slow, sounds hand sent.

Finally, it looks like M11 and sounds like M11; but, is it M11.

In conclusion , another case of *déjà vu*, in the last Newsletter I requested help with RDF. Need I say more?

73 Derek, DoK 29/04/07

<u>M10, S10d and S17c Listings</u>			Chart 30					From 1 <sup>st</sup> May, 2007	
Freq 1	Freq 2	Sun	Mon	Tues	Wed	Thur	Fri	Sat	Act Des
8175	9986			S0150	S0150				ALT
4836	7380							0210	R
5945				0310					R
5093	7475			0330		0330			R
5078	7745				0340				ALT
3810	5861		0400	0400		0400			R
6782								0410	R
7745	9166				S0410	S0410			R
4030	6758			0430		0430			R
				0430					R
6759	9166		0450	0450					R
8175			S0450			S0450			R
4030	6782	0535	0535		0535			0535	R
9369	13405		S0540	S0540					R
9385	11417					S0600		S0600	R
14565	15898	0615	0615	0615	0615	0615	0615	0615	R
9385								0700	R
9986	13405							S0755	R
4782					0800	0800			ALT
8175	9986				S0820	S0820			ALT
15898					0830				R
13648					0840	0840			ALT
15875	18303				1000	1000			ALT

Freq 1	Freq 2	Sun	Mon	Tues	Wed	Thur	Fri	Sat	Act Des
18303						1100	1100		ALT
7475			1140	1140					ALT
16020			1200	1200					R
8190	12295				1200	1200			ALT
15785						S1230	S1230		ALT
4485	6758	1250	1250	1250	1250	1250	1250	1250	R
5027	7380		1340	1340					ALT
7382	10932		1410	1410					R
13405						1440	1440		ALT
4782	6835		1500	1500					ALT
7745	9166							S1520	R
13405						1530	1530		ALT
4485	6763	1610	1610						ALT
4030	6801	1630	1630		1630			1630	R
10125				1640					R
5078	7745		1700	1700					ALT
5078	8175				1700	1700			ALT
8175	13405			1720		1720			R
8190							1720		R
8190	13502		S1740	S1740					R
5945	9971	1800				1800			R
5076	8190		1820	1820					ALT
9986					S1820	S1820			ALT
14978					1840	1840			ALT
13405	14445			S1855	S1855				ALT
5076	7745				1900	1900			ALT
8143	12226	1920	1920						R
8190	13405				1940	1940			ALT
9385	14445			1950		1950		1950	R
3563	4485		S2020			S2020			R
8175	9986	S2050		S2050					R
3810	5735		2100		2100				R
7475	9166					S2130		S2130	R
5945	9166		2200	2200					R
9369			2200	2200					R

All stated 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 <sup>st</sup> May to 31 <sup>st</sup> August	[Summer Schedules]	Chart 30	Newsletter 40 – this issue
1 <sup>st</sup> Sept to 31 <sup>st</sup> Oct	[Interim]	Chart 27	Newsletter 37
1 <sup>st</sup> Nov to 28 <sup>th</sup> Feb	[Winter Schedules]	Chart 28	Newsletter 38
1 <sup>st</sup> Mar to 30 <sup>th</sup> Apr	[Interim]	Chart 29	Newsletter 39

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

**STOP PRESS:** Please note at the time of writing S17c has stayed on it's interim frequency of 5301kHz  
We have **not** updated Chart 30 to illustrate this anomaly. [This may be a further indication of the changes mentioned above].

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

The S06 Russian language transmissions continue much as always, in general on the same frequencies as in any given month last year and the two YL voice sendings I keep an eye on have followed the seasonal changes of frequencies shown in "S06 Regular skeds ending slow" in the E2K Newsletters. One exception to this predictable behaviour is the 1600 UTC Saturday OM which I lost track of at the start of the winter months and only found again in March, not on the same frequency as last year. In general S06 stays on UTC when the clocks change for summertime so appear one hour later clock time.

#### Tuesday 1630 + 1730 UTC Schedule:-

6-Mar-07;- 1630 UTC, 9,070 kHz, calling "126", DK/GC "854 854 73 73"

1730 UTC, 6,960 kHz, second sending, both strong signals, same frequencies as in March last year.

7-Mar-07, Wednesday;- 1741 UTC, 6,960 kHz, repeat of yesterday, second sending, in progress. Ended after 1746z with "894 894 73 73 00000".

13-Mar-07;- 1730 UTC, 6,960 kHz, call "126", DK/GC "395 395 74 74", second sending.

14-Mar-07, Wednesday;- 1730 UTC, 6,960 kHz, repeat of yesterday's "126" and "395 395 74 74", good signal.

27-Mar-07;- 1630 UTC, 9,070 kHz, British summertime has started and since this schedule stays on UTC it now shows up one hour later clock time - which gives some of us a sporting chance of getting home in time to monitor the first sending! Call "126", DK/GC "345 345 78 78". Noisy frequency, difficult copy at times.

1730 UTC, 6,960 kHz, second sending, S9 signal, much clearer than the first sending.

28-Mar-07, Wednesday;- 1630 UTC, 9,070 kHz, next day repeat of "126" and "345 345 78 78", much better signal than yesterday, S9+ and no noise.

1737 UTC, 6,970kHz, second sending in progress, strong signal.

3-Apr-07;- 1630 UTC, 10,830 kHz, call "036", DK/GC "892 892 75 75", change of frequencies for April, weak signal, S4 or S5 at best, unusually weak for this one.

1730 UTC, 8,180 kHz, second sending of "036" and "892 892 75 75", S9 signal, much stronger than the first sending. Similar frequencies used in April last year.

4-Apr-07, Wednesday;- 1637 UTC, 10,830 kHz, repeat of yesterday's transmission in progress, even weaker signal than yesterday.

1730 UTC, 8,180 kHz, second sending, much better signal, S9+, deep mod tending towards distortion.

#### Second + Fourth Mondays in the Month Schedule:-

Somewhat unusually for this family of number stations the second plus fourth Mondays S06 moves by one hour with the start of summertime so it appears at 9.15 PM and 10.15 PM UK time at all times of the year, i.e. 2115 + 2215 UTC November to March, 2015 and 2115 UTC April to October.

12-Mar-07;- 2115 UTC, 6,965 kHz, "491 491 491 00000", similar frequency, 6,980, used in March last year. There was a strong carrier up on 6,980, assumed to be S06 warming up, at 2100z but appeared to vanish; close to Kol Israel with massive S9++ signal on 6,985 so perhaps Ivan wanted to get clear of the broadcaster. S06 found on 6,965 after a couple of seconds waiting in vain for something to start up on 6,980 at 2115z. However, a case of "out of the frying pan into the fire" here as a strong carrier came up on 6,968 to heterodyne with S06, this being the Wednesday E07 warming up for the second sending at 2120z.

2215 UTC, 5,370 kHz, "491 491 491 00000", second sending.

9-Apr-07;- 2015 UTC, 8,150 kHz, "825 825 825 00000", same frequency used in April last year.

2115 UTC, 6,920 kHz, second sending; as expected has shifted by an hour to appear at the same clock time as in winter.

#### Saturday 1600 UTC Schedule:-

Unlike other S06 schedules this 1600z sending is somewhat unreliable; last year was heard on alternate Saturdays for a while, then weekly and then I lost track of it altogether from late October last year right through the winter months although RRGB reported it on 3,887 kHz in the depths of winter. Contact re-established in March!

17-Mar 07;- 1600 UTC, 6,783 kHz, first time heard at this QTH since 28-Oct-06 when it appeared five minutes past the hour on 5,468 kHz. On most Saturdays since then I had made a search for likely looking carriers from about 1555z onwards and then for a few

minutes after 1600z but nothing found. A carrier found today on 6,783 approx. 1557z close to strong "XJT", started up on the hour with "754" for a "full message", DK/GC "618 618 24 24". Ended after 1608z with DKDK GCGC and 5 x "noll". This frequency not too far away from 6,788 suggested in E2K "ending fast skeds". No sign on the following Saturdays, 24 and 31 March.

7-Apr-07;- 1600 UTC, 6,783 kHz, came up again with "754" and "618 618 24 24" as on 17-March. Strong signal, no mistaking the carrier which was up at 1541z, tone just before 1545z and a single spoken "Syem pyat cheteria" at 1548z.

14-Apr-07;- 1600 UTC, 6,783 kHz - has appeared two Saturdays in a row; hasn't done that for a while! Calling "754", DK/GC "618 618 24 24" again. Difficult copy due to very strong "XJT" roaring away and swamping S06; was not too bad when a carrier with tone was noted on 6,783 at around 1545z but had become extremely strong by 1600z.

21-Apr-07;- 1600 UTC, 6,783 kHz, "754 754 754 00000", just four minutes worth today, strong signal, much better than last Saturday, the "XJT" way down in strength. Carrier was up at 1543z, usual tone and single "Syem pyat cheteria" shortly after, plain carrier until start up with no "concealment".

S06 YL Voice:-

Tuesday 1800 + 1810 UTC Schedule:-

6-Mar-07;- 1800 UTC, 5,680 kHz, calling "624", DK/GC "531 531 7 7". Always a single figure group count, 5Fs were "22881 02944 28953 85547 99542 52755 55052". As shown in E2k Newsletter "S06 Regular skeds ending slow", a change of frequencies in March from the 5,625 + 6,605 kHz used in the past four months. And of course, 5,680 is a frequency much used for rescue purposes by her Britanic Majesty's Airforce whose S9+ single sideband 2-way comms traffic was much in evidence this evening.  
1810 UTC, 6,815 kHz, second sending, strong "XJT" on a close frequency.

20-Mar-07;- 1800 UTC, 5,680 kHz, "624" and "531 531 7 7", as earlier in the month with co-channel SSB traffic. Repeated 1810z, 6,815.

27-Mar-07;- 1800 UTC, 5,680 kHz - or rather, 5,679 point something, I am sure the frequency was slightly low; the receiver I was using had frequency readout to 1 kHz and when S06 was tuned in carrier zero beat in upper sideband mode the display said "5,679". When the usual Rescue SSB traffic came on I had to tune up to a displayed "5,680" to render it audible. "624" and "531 531 7 7" again.

1810 UTC, 6,815 kHz, second sending; now this was on 6,815 but unlike the first sending did not have the lower sideband suppressed; on switching mode from USB to LSB was about the same amplitude in each.

3-Apr-07;- 1800 UTC, 5,680 kHz, on frequency today, call "624", DK/GC "815 815 7 7", "54826 34318 38554 74830 48417 91415 82222". No voices from "Rescue" heard.  
1810 UTC, 6,815 kHz, second sending.

Wednesday 1900 + 1910 UTC Schedule:-

21-Mar-07;- 1900 UTC, 9,220 kHz, call "371", DK/GC "456 456 7 7", weak signal, difficult copy.  
1910 UTC, 8,270 kHz second sending, very weak signal, difficult copy. Interference from 2-way SSB traffic, also Russian language, strangely; not mixing with the S06 transmission, a much stronger signal.

28-Mar-07;- 1900 UTC, 9,220 kHz, "371" and "456 456 7 7", as last week. Stronger signal today, S6 at first then up to S9. "47757 72345 10833 93063 89681 15867 41636".  
1910 UTC, 8,270 kHz, second sending, strength S6 at best; and the Russian language 2-way SSB chit-chat again, was still on long after S06's carrier had gone off.

Thursday 1600 + 1610 UTC Schedule:-

I have only been at home to hear this schedule on one occasion in recent weeks, frequencies as per "S06 regular skeds slow" in E2K 39;-

29-Mar-07;- 1600 UTC, 12,560 kHz, call "425", DK/GC "891 891 6 6", carrier with tone was up 1542z, "68509 67515 06292 54243 41847 16141".  
1610 UTC, 13,065 kHz second sending. Both transmissions were S9+ signals, far stronger than any of the S06 YLs heard on Tuesdays or Wednesdays.

S10d [ IXA ]

The S10d Czech YL continues with what now seems to be the established routine, i.e. on just one of a pair of frequencies logged running in // in the same month in previous years, any call-up triplet likely to be heard in place of the exclusive "555" used for years and all transmissions in upper sideband suppressed carrier mode. There were the expected seasonal frequency changes observed in the first week of March. Also as expected, stayed on UTC with the start of British Summertime so all schedules appear one hour later clock time. Schedules operating in April include the following:-

Sunday + Tuesday Schedule, 2050 UTC, 6,894 or 7,745 kHz:-

Changed from 5,272 or 5,904 kHz used in the winter months; heard on Sunday 4-March on 6,894 kHz with call triplet "888", weak signal, difficult copy. On Sunday 11-March was on 7,745 kHz with "666" (shesht shesht shesht). On Sunday 1-April was on 7,745 kHz, again with "666" with an S9 signal and on Sunday 8-April was again on 7,745, this time with a very strong S9+ signal and call-up triplet "444", ("steerie steerie steerie").

Saturday Schedule, 1520 UTC, 8,175 or 9,985 kHz:-

No change of frequencies in the first week of March here, stayed on the same frequencies as in the winter months. Heard on 3-March on 8,175 kHz with call-up "333", (shee shee shee) with an S9+ signal. On 10-March was on the alternative frequency 9,985 KHz, weak signal with BC QRM and call "888" ("ossum ossum ossum"). On 17-March was again on 9,985 KHz with "222", ("dervar dervar dervar"), weak signal, severe broadcast QRM, difficult copy. On 24-March was on 8,175 kHz with a strong signal and call-up triplet "666", ("shesht shesht shesht") - with a strong signal. On 31-March was on 8,175 kHz again, still with a strong signal - call triplet "333", ("shee shee



shee"). On 7-April was on 9,985 kHz, so weak as to be unreadable. On 14-April was again on 9,985 KHz with a weak signal - 9,985 is always much weaker than 8,175 - with "888". Also with an FSK/fast RTTY signal on the same frequency, which is something different at least!.

Saturday + Thursday Schedule, 0600 UTC, 11,416 or 9,985 kHz:-

I have only been able to monitor this one after the start of British Summertime, that is at 7 AM, since when it has appeared on the expected frequencies of either 11,416 or 9,985 kHz; before then it would have showed up at 6 AM when, I have to say, I would still have been deep in the sleep of the innocent! On Saturday 31-March was heard on 11,416kHz with a very weak signal, only just detectable, totally unreadable - but at least it was there! On Saturday 7-April was again on 11,416, and again very weak, unreadable. On Saturday 14-April was on 9,985 kHz, weak but readable, much better signal than anything heard so far on 11,416. Calling up with triplet "999", ("deviet deviet deviet").

Saturday + Thursday Schedule, 2130 UTC, 5,473 or 6,894 kHz:-

Changed from 4,446 or 5,904 kHz used in the winter months. Heard on Thursday 15-March on 5,473 kHz with an S9 signal, missed the call-up. On Saturday 24-March was on 6,894 with a very weak signal and call triplet "444". Also on 6,894 on Thursday 29-March, again very weak, call "888". Continues in April, heard on Thursday 5th on 5,473 with an S9 signal - this frequency seemingly always a much better signal than 6,894 - call triplet "999". However, on Saturday 7-April 6,894 was used and confounded all previous observations by coming up with a massive S9+ signal on this frequency and call "777".

Alternate Wednesdays Schedule, 1820 UTC, 7,745 or 9,385 kHz:-

Was on 5,904 or 6,945 kHz in the winter months. Heard on 14-March on 9,385 kHz with a very weak signal, only just detectable, call triplet sounded like "777". Heard again 28-March, also on 9,385 but with a massive S9+ signal and "888". On 11-April was on 7,745 kHz, good signal and call triplet "666".

Alternate Tuesday + Wednesday Schedule, 1855 UTC, 13,405 or 15,785 kHz:-

Changed in March from 7,745 or 9,985 kHz used in the winter months. Heard on Tuesday 20-March on 13,405, very weak signal, sounded like "999". On Tuesday 3-April was on 15,785 kHz with a very weak signal, only just detectable, unreadable; on Wednesday 4-April was again on 15,785, also weak but able to hear "444". On Tuesday 17-April was on 13,405 kHz, not heard for several minutes but rose up out of the noise to become just about readable for a few minutes after 1901z before sinking back under again.

Monday + Tuesday Schedule, 1740 UTC, 6,945 or 10,582 kHz:-

In March changed from 5,028 or 7,605 kHz used in the winter months. This schedule always has two 5F messages. Heard on Monday 5-March on 10,582 with call triplet "777" with a very strong, S9+ signal. On Tuesday 6-March was on 10,582 again, same 5F groups but with call "999" this time. On Monday 26-March was on 10,582 kHz with "999", weak signal and on Tuesday 27th still on 10,582 but with call "222" and an S9+ signal in total contrast with Monday's feeble effort. On Monday 16-April came up on 6,945 kHz with an S9+ signal and call triplet "444". [Txn PoSW]

Now some logs [with duplication]:

MARCH

7745kHz 2050z	06/03[222 014 18 222 014 37 18 Pozor 11189 etc] RNGB		TUE
8175kHz 1520z	03/03[333 816 55 23 ]KK 1530z Very Strong PLondon	SAT	
1520z	24/03[666 132 55 39 ]KK 1530z Strong PLondon	SAT	
1520z	31/03[333 251 15 28 ]KK 1530z Very Strong PLondon	SAT	
10582kHz 1740z	06/03[999 781 35 143 26 999 etc] RNGB	TUE	

APRIL

5806kHz 0450z	02/04[in prog 40 33]KK 0502z PLondon	MON
7745kHz 2050z	01/04[666 281 25 33]KK 2102z Very Strong PLondon	SUN
1820z	11/04[666 780 42 32 == 06441] H-FD	WED
1520z	15/04[888 071 94 24]KK 2100z Very Loud PLondon	SUN
8175kHz 1520z	21/04[666 530 01 21]KK 1530z Fair readable PLondon	SAT
9985kHz 1520z	14/04[888 613 36 32]KK 1532z Poor & Noisy PLondon	SAT
10582kHz 1740z	23/04[666 678 27 33; 469 91 22]KK 1756z Weak PLondon	MON

S11a [ III ]

4015kHz 2100z	04/04[971/00]H-FD	WED
4016kHz 2100z	07/03[971/00] AF	WED
2100z	21/03[971/00] AF stuttering at start, real problems	WED
7377kHz 0900z	07/03 (214/00) FN	WED
7984kHz 1030z	08/03 (214/00) FN	THUR

S11b [ III ] No Reports

**S14**

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

WED

**S17c [ IXC ]**

Either/or 5301 and/or 8190kHz 1250z Tnx to AF, DoK, FS, FredNL, H-FD and PLondon for these results:

**March:**

01/03 62027; 02/03 56028; 04/03 64029; 05/03 68029; 06/03 57029; 07/03 68025; 08/03 62028; 09/03 69028; 10/03 57028; 11/03 59028; 12/03 68028; 13/03 70030; 14/03 57029; 15/03 49029; 16/03 60028; 17/03 52035; 18/03 52035; 19/03 58034; 21/03 59030; 23/03 59035; 24/03 57029; 25/03 54030; 29/03 56030; 31/03 66033;

**April:**

01/04 57029; 02/04 60030; 03/04 59029; 04/04 58030; 05/04 55028; 06/04 59039; 07/04 50031; 08/04 54031; 09/04 61028; 10/04 62029; 11/04 59031; 12/04 57031; 13/04 59030; 14/04 54031; 15/04 49033; 16/04 54031; 17/04 62031; 18/04 48031; 19/04 49031; 20/04 54032; 21/04 61034; 23/04 54032; 25/04 58032; 26/04 54031; 27/04 48031; 28/04 52037; 29/04 53033; 30/04 59031;

**STOP PRESS:** Please note at the time of writing S17c has stayed on it's interim frequency of 5301kHz**S21 [ XIV ]**

4454kHz 1842z	01/03 AF	good	THUR
1842z	20/03 AF	very good	TUE
1842z	22/03 AF	good	THUR
4854kHz1842z	27/03 AF	very good	TUE

**S25[IA]:** Nil Reports**V02a [XVIII ]** [V02a Charts at the end of this Newsletter – tnx Mark and contributors.](#)**March:**

4028kHz 0200z	17/03[A 45770 88622 22628 (YL/SS. New format. Repeat of 0100z on 5135m.)]	SAT
4035kHz 1000z	24/03[A 43623 81911 57713 (YL/SS. Old format.)]	SAT
4507kHz 1100z	10/03[A 74774 17242 02211 (YL/SS. New format.)]	SAT
5135kHz 0100z	17/03[A 45770 88622 22628 (YL/SS. New format.)]	SAT
6855kHz 2100z	11/03[A 63981 93371 96241 (YL/SS. Old format. Repeat of 2000z on 7887m.)]	SUN
2100z	12/03[A 63982 93372 96242 (YL/SS. Old format. Repeat of 2000z on 7887m.)]	MON
2100z	13/03[A 27855 42021 61368 (YL/SS. New format.)]	TUES
2100z	15/03[A ----- 00045 ----- (In progress, missed first and third callups. New format.)]	THUR
2100z	16/03[A 18863 96493 83133 (YL/SS. Old format. Repeat of 2000z on 7887m.)]	FRI
2100z	17/03[A 20561 49661 78261 (YL/SS. Old format. Repeat of 2000z on 7887m.)]	SAT
2100z	18/03[A 61674 02458 20816 (YL/SS. New format. Repeat of 2000z on 7887m.)]	SUN
2100z	21/03 [A 88552 51912 87762 (Old format.)]	WED
2100z	22/03[A 88553 51913 87763 (YL/SS. Old format. Repeat of 2000z on 7887m.)]	THUR
2100z	28/03[A 49713 95573 92883 (YL/SS. Old format.)]	WED
7555kHz 0800z	09/03[A 44264 37352 58644 (YL/SS. New format.)]	FRI
0800z	12/03[(YL/SS. New format. Too weak for copy.)]	MON
0800z	16/03[A 46467 85555 11521 (YL/SS. New format.)]	FRI
0800z	23/03[A 90791 78452 11832 (YL/SS. New format.)]	FRI
0800z	28/03[A 95013 56812 92232 (YL/SS. Old format.)]	WED
7580kHz 0800z	08/03[A 27341 55677 88047 (YL/SS. New format.)]	THUR
0800z	27/03[A 95012 56811 92231 (YL/SS. Old format. Should be repeat of 0700z on 8186m.)]	TUE
7681kHz 0800z	18/03[A 86702 32011 20241 (YL/SS. Old format.)]	SUN
0800z	25/03[(Cubans having technical difficulties getting this sked up and running! YL/SS. Old format.)]	SUN
7887kHz 2000z	11/03[A 63981 93371 96241 (YL/SS. Old format.)]	SUN
2000z	12/03[A 63982 93372 96242 (YL/SS. Old format.)]	MON
2000z	15/03[A ----- 96492 83132 (YL/SS. Early start. Old format.)]	THUR
2000z	16/03[A 18863 96493 83133 (YL/SS. Old format.)]	FRI
2000z	17/03[A 20561 49661 78261 (YL/SS. Old format.)]	SAT
2000z	18/03[A 61674 02458 20816 (YL/SS. New format.)]	SUN
2000z	22/03[A 88553 51913 87763 (YL/SS. Old format.)]	THUR
2000z	23/03[A 81211 57661 78211 (YL/SS. Old format.)]	FRI
2000z	25/03[A 17202 32368 68120 (YL/SS. New format.)]	SUN
8097kHz 0700z	11/03[A 49762 67186 15588 (YL/SS. New format.)]	SUN
8136kHz 0800z	07/03[A 48628 80402 16154 (YL/SS. New format.)]	WED
0700z	16/03[A 44786 82277 18830 (YL/SS. New format.)]	FRI
0700z21/03	[A 66872 10621 31321 (YL/SS. Old format.)]	WED
0700z22/03	[(Late start at 0706z. In progress. Too weak for copy. New format.)]	THUR
8186kHz 0700z	27/03[(YL/SS. Old format. Too weak for copy.)]	TUE

9040kHz 0900z	08/03[A 97701 67073 75923 (YL/SS. Old format.)]	THUR
0900z	11/03[A 49762 67511 04362 (YL/SS. New format.)]	SUN
0900z	17/03[A 83061 56625 72781 (YL/SS. New format.)]	SAT
0900z	25/03[(Strong carrier up, but no audio by 0905z.)]	SUN
9063kHz 0900z	07/03[A 34056 66326 83177 (YL/SS. New format. This should have been on 9040m now.)]	WED
9240kHz 1000z	11/03[A ----- 93193 47433 (YL/SS. Old format, in progress.)]	SUN
1000z	17/03[A 83061 56625 72781 (YL/SS. New format. Repeat of 0900z on 9040.)]	SAT
1000z	24/03[A 18692 13981 70981 (YL/SS.Old format.)]	SAT
1000z	25/03[A 18693 13982 70982 (YL/SS. Old format.)]	SUN
17436kHz 1700z	17/03[A ----- 36613 12383 (YL/SS. Came in late and missed first address. Old format.)]	SAT
1700z	18/03[A 51503 23478 12818 (YL/SS. New format. Repeat of 1600z on 17478m.)]	SUN
1700z	25/03[A 41015 74375 00146 (YL/SS. New format. Repeat of 1600z on 17478m.)]	SUN
17478kHz 1600z	18/03[A 51503 23478 12818 (YL/SS. New format.)]	SUN
1600z	24/03[A ----- 83931 (YL/SS. Old format. Came in late, missed some callups.)]	SAT
1600z	25/03[A 41015 74375 00146 (YL/SS.New format.)]	SUN

Notes 13/03: Tom H and Westt1us both reported that it appears the 1700z sked on 17436m is becoming a regular SK01 sked. I heard it today for 32 minutes.

The 1600z sked on 16178m has been silent lately, but Mike from Sussex seems to have found a possible new freq for the 1600z sked on 17478m. It seems to be a V2a sked. [See SK01for intercept detail].

#### April:

4028kHz 0300z	07/04[(YL/SS. Old format. Already in progress.)]	SAT
4035kHz 1000z28/04	[A 04171 13241 41335 (YL/SS. Old format.)]	SAT
4507kHz 1100z28/04	[A 04171 13241 41335 (YL/SS.Old format. Repeat of 1000z on 4035m.)]	SAT
5883kHz 0707z	05/04[A ----- 08871 26361 (Old format. Found this new freq of V2a that started out on 6786m at 0700z.)]	THUR
0700z	09/04[A 83178 25448 44806 (YL/SS.New format.)]	MON
0700z	10/04[A 17281 08873 26363 (YL/SS.Old format.)]	TUE
0800z	10/04[A 17281 08873 26363 (YL/SS.Old format. Repeat of 0700z on 5883m.)]	TUE
0700z	24/04[A 93821 98562 71321 (YL/SS. Old format.)]	TUE
0700z	26/04[A 93823 44781 40551 (YL/SS. Old format.)]	THUR
0700z	30/04[A 14021 64764 04852 (YL/SS.New format.)]	TUE
5898kHz 0800z	05/04[A 12992 08871 26361 (YL/SS.Old format. Repeat of 0707z on 5883m.)]	THUR
0800z	09/04[A 83178 25448 44806 (YL/SS.New format. Repeat of 0700z on 5883m.)]	MON
0800z	23/04[A 43123 98561 80072 (YL/SS. Old format.)]	MON
0800z	24/04[A 93821 98562 71321 (YL/SS. Old format. Repeat of 0700z on 5883m.)]	TUE
0800z	26/04[A 93823 44781 40551 (YL/SS. Old format. Repeat of 0700z on 5883m.)]	THUR
0800z	30/04[A 14021 64764 04852 (YL/SS.New format. Repeat of 0700z on 5883.)]	TUE
6786kHz 0700z	05/04[A 12992 08871 26361 (YL/SS.Old format. Changed to correct M8a format at 0701z.)]	THUR
0800z	10/04[A 76041 87273 28056 (YL/SS.New format.)]	TUE
0100z	14/04[A 81693 34433 78161 (YL/SS.Old format.)]	SAT
6855kHz 2100z	02/04[A 58202 83722 43372 (YL/SS. Old format.)]	MON
2100z	04/04[A 38101 17991 02891 (YL/SS. Old format.)]	WED
2100z	05/04[A 38102 17992 02892 (YL/SS. Old format. Repeat of 2000z on 7887m.)]	THUR
2100z	06/04[A 38103 17993 02893 (YL/SS.Old format.)]	FRI
2100z	07/04[A 44861 40231 58251 (YL/SS.Old format. Repeat of 2000z on 7887m.)]	SAT
2100z	09/04[A 44863 40233 58253 (YL/SS.Old format.)]	MON
2100z	11/04[A 08962 40922 25292 (Old format. Repeat of 2000z on 7887m.)]	WED
2100z	13/04[A 90511 01111 92691 (YL/SS. Old format.)]	FRI
2100z	14/04[A 90512 01112 92692 (YL/SS. Old format. Repeat of 2000z on 7887m. Very weak signal.)]	SAT
2100z	22/04[A 12651 72971 18811 (YL/SS.Old format. Repeat of 2000z on 7887m.)]	MON
2100z	23/04[A 12652 72972 18812 (YL/SS. Old format.)]	MON
2100z	24/04[A 12653 72973 18813 (YL/SS. Old format. Repeat of 2000z on 7887m.)]	TUE
2100z	24/04[A 36061 48381 89381 (YL/SS.Old format. Repeat of 2000z on 7887m.)]	WED
2100z	26/04[AM carrier up, but no audio at 2105z.)]	THUR
2100z	27/04[A 36063 48383 89383 (Old format. YL/SS. Repeat of 2000z on 7887m.)]	FRI
2100z	28/04[AM, A 58151 44621 46411]	SAT
2100z	29/04[A 27076 42042 68704 (YL/SS. New format. Repeat of 2000z on 7887m.)]	SUN
2100z	30/04[A 58153 44623 46413 (YL/SS.Old format. Repeat of 2000z on 7887m.)]	TUE
7887kHz 2000z	05/04[A 38102 17992 02892 (YL/SS.Old format.)]	THUR
2000z	07/04[A 44861 40231 58251 (YL/SS. Old format. Very weak signal.)]	SAT
2100z	10/04[A 08961 409 (Old format.Stops here. Thought he was moving to correct freq of 6855m, but not heard again.)]	TUE
2000z	11/04[A 08962 40922 25292 (Old format.)]	WED
2000z	14/04[A 90512 01112 92692 (YL/SS.Old format. Very weak signal.)]	SAT
2000z	22/04[A 12651 72971 18811 (YL/SS.Old format.)]	MON
2000z	24/04[A 12653 72973 18813 (YL/SS.Old format.)]	TUE
2000z	25/04[A 36061 48381 89381 (YL/SS.Old format.)]	WED

2000z	26/04[A 36062 48382 89382 (YL/SS.Old format.)]	THUR
2000z	27/04[A 36063 48383 89383 (Old format. YL/SS.)]	FRI
2000z	28/04[A 58151 44621 46411 (YL/SS.Old format.)]	SAT
2000z	29/04[A 27076 42042 68704 (YL/SS.New format.)]	SUN
2000z	30/04[A 58153 44623 46413 (YL/SS. Old format.)]	TUE
8136kHz 0900z	29/04[A 97161 -1741 81621 (YL/SS. Old format. Very weak signal, heavy fades.)]	SUN
9040kHz 0903z	07/04[A 30911 ----- (Too weak, audio turned too low. YL/SS. Old format.)]	SAT
0900z	29/04[(Too weak for copy. YL/SS. Old format.)]	SUN
9240kHz 1000z	15/04[A 64383 ----- (YL/SS.Old format. Very weak signal, strong fades.)]	SUN
17436kHz 1700z	07/04[A 28621 63833 43663 (Old format. YL/SS. Repeat of 1600z on 17478m.)]	SAT
1700z	14/04[A 70162 21704 02324 (YL/SS.Old format. Repeat of 1600z on 17478m.)]	SAT
1700z	22/04[A 05991 98105 12971 (YL/SS.Old format. Repeat of 1600z on 17478m.)]	MON
1700z	28/04[A 30771 45843 28341 (YL/SS.Old format.)]	SAT
1700z	29/04[A 46303 57576 82805 (YL/SS. New format. Repeat of 1600z on 17478m.)]	SUN
17478kHz 1600z	07/04[A 28621 63833 43663 (Old format. YL/SS.)]	SAT
1600z	14/04[A 70162 21704 02324 (YL/SS.Old format.)]	SAT
1600z	22/04[A 05991 98105 12971 (YL/SS.Old format.)]	MON
1600z	29/04[A 46303 57576 82805 (YL/SS.New format.)]	SUN

#### SK01[XVIII]

##### March:

6786kHz 0700z	27/03[(In traffic)]	TUE
0700z	24/04 [AM, (In traffic.)]	TUE
17436kHz 1700z	13/03 AM, <i>SK01</i> , (Seems to be in traffic. Signal went down at 1732z.)]	TUE
1700z	22/03[Begins traffic at 1703z Strong signal.]	THURS

##### April:

6786kHz 0700z	03/04 (In traffic.)	TUE
0700z	10/04[SK01, AM, (In traffic.)]	TUE

Peter carries on with his logs heard in Britain:

I had been tracking the V02a Cuban YL throughout March on much the same frequencies as used from late last year. However, with this *senorita* staying on UTC following the start of summertime towards the end of March and so appearing one hour later clock time the result has been a reduction in sightings of this one because there doesn't seem to be any transmission at 0600z, 7 AM British Summertime, audible on this side of the Atlantic. In the winter months, when 7 AM was 0700 UTC, there was something on either 8,136 or 8,186 on most days of the week. The Saturday 0700z, 8,186kHz and 0800z, 7,580 kHz transmissions seem to have gone in April along with the Sunday 0700z 8,097 kHz and 0800z, 7,681 KHz. Perhaps these sendings have moved to new frequencies yet to be discovered. Certainly, on Easter Monday, 9-April, V02a was logged around 0700z on 5,883 kHz and at 0800z, 5,898 kHz, both new frequencies to me. Those V02a transmissions which can still be found continue use one or other of two alternative YL voices, one which has been around for years which I call, for want of a better name, the "old voice" and the more recent, - I first heard it in December last year - strident version which I call, no surprise here, the "new voice".

4-Mar-07, Sunday;- 0800 UTC, 7,681 kHz, "Atencion, 01843 24692 68442", weak signal with the "old voice".

6-Mar-07, Tuesday;- 0702 UTC, 8,186 kHz, carrier only when tuned in just after 0702z, voice started a few seconds afterwards with, "Atencion, 94282 48751 62691", went into 5Fs after 0703z, short call-up, old voice.

8-Mar-07, Thursday;- 0714 UTC, 8,186 kHz, transmission in progress, "new voice" here, peaking signal strength S8.

10-Mar-07, Saturday;- 0700 UTC, 8,186 kHz, new voice with "Atencion, 21853 52636 70084", strength S5, became S8 by 0705z 0800 UTC, 7,580 kHz, "Atencion, 21853 52636 70084", as heard earlier. Broadcast station on same frequency interfering, difficult copy.

11-Mar-07, Sunday;- 0706 UTC, 8,097 kHz, transmission in progress, new voice.  
0800 UTC, 7,681 kHz, carrier only, no voice when checked at various times; was still on with no mod. at 0857z.  
0900 UTC, 9,040 kHz, "Atencion, 49762 67511 04362", new voice, weak signal, difficult copy.  
1000 UTC, 9,240 kHz, carrier only until 1004z when the *old* voice came up, straight into 5Fs with no call-up routine.

12-Mar-07, Monday;- 0700 UTC, 8,136 kHz, "Atencion, 87105 43848 68253", new voice with an S9+ signal, best reception of V02a for some time. Strong "XJT" has set up shop slightly HF of this frequency.

13-Mar-07, Tuesday;- 0711 UTC, 8,186 kHz, transmission in progress, old voice.

14-Mar-07, Wednesday;- 0700 UTC, 8,136 kHz, "Atencion, 74411 28774 52244", weak signal, "XJT" making things worse, reception best in LSB mode.

17-Mar-07, Saturday;- 0802 UTC, 7,580 kHz, late start, carrier only until two minutes past the hour, "Atencion, 83061 30580 52850", new voice, the broadcaster heard faintly underneath.  
0901 UTC, 9,040 kHz, another late start, "Atencion, 83061 56625 72781", new voice, signal strength S8 with deep QSB.

18-Mar-07, Sunday;- 0800 UTC - plus 20 seconds! - 7,681 kHz, "Atencion, 86702 32011 20241", old voice.

0900 UTC, and again about 20 seconds late, 9,040 kHz, old voice with, "Atencion 86702 60681 48591".

19-Mar-07, Tuesday;- 0700 UTC, 8,186 kHz, "Atencion, 66871 32013 20243", Old voice.

1-Apr-07, Sunday;- no sign of the expected transmission at 0800 UTC on 7,681 kHz this morning, not even a carrier.  
0919 UTC, 9,040 kHz, transmission in progress, old voice, strength S7, must have been a late start, was not on when checked just after 0900z.

8-Apr-07, Sunday;- the 0800 UTC 7,681 kHz transmission seems to have gone, perhaps a seasonal change of frequency? The 0900 and 1000z continue as ever;-

0900 UTC, 9,040 kHz, old voice with "Atencion, 30912 77041 45241", strength S7.

1006 UTC, 9,240 kHz, transmission in progress, very weak signal, difficult copy, old voice.

9-Apr-07, Monday - Easter Monday, public holiday in the UK, chance to tune around on a weekday morning! Perhaps evidence of seasonal frequency changes here;-

0700 UTC, or just before, 5,883 kHz, a new frequency for the Cuban YL, for me anyway; carrier noted approx. 0650z, thought something might start up on the hour or thereabouts, surprised to find it was the Senorita from Havana! "Atencion, 83178 25448 44806", new voice, peaking S8 with the usual QSB.

0800 UTC, 5,898 kHz, and another one! Found approx. one minute past the hour with call-up in progress, "83178 25448 44806" - same as heard earlier, new voice.

0900 UTC, or rather, 45 seconds before, early start, 9,040 kHz, "Atencion, 72741 17711 35266", not the same as heard earlier, new voice.

14-Apr-07, Saturday;- 0936 UTC, 9,040 kHz, transmission in progress, the old voice, strength S5 at best.

21-Apr-07, Saturday;- 1007 UTC, 9,240 kHz, transmission in progress, new voice, very weak signal. Was much stronger when checked again at 1035z, S8. Ended with 3 x "Finale" after 1047z.

22-Apr-07, Sunday;- 0901 UTC, 9,040 kHz, nothing on 9,040 when monitored at 0900z, not even a carrier but this came up shortly after 0901z and the old voice came on a few seconds afterwards with "Atencion" routine, weak signal, difficult copy, "57061 004?? 16195(?)".

[Thanks Peter]

Also heard in Europe:

9332kHz 0629z 19/03[i.p.] FranKE2kde MON

#### 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]

14387kHz 0600z 22/03[304 000] AF good THUR

#### V13 [ O ] Nil Reports

*[Come on folks lets help Albino Dragon here – there's plenty of you Stateside who post absolutely nothing. How's about changing that?]*

#### V21 [O]

The V21 babbler transmissions have been consistently appearing at around 1400 for the past couple months at least. They have now apparently shifted to around 1300 interestingly following the new Daylight savings time here in the USA. Per my observations and thanks to a member who contacted me off list the transmissions can be heard as follows.

5637 USB ~1350 Associated with a clicking noise in the background. The numbers are read much faster than the transmission on 6529

6529 USB ~1300 onwards the more usual V21.

The 5637 transmission always seems to start before the 6529 but they may run concurrently. Transmissions seem to last up to 30 minutes but seem to vary in length.

I've only heard them counting upwards so far as high as 100 but it seems to vary. Has anyone heard actual messages being transmitted?  
[from westtlus - txn]!

An answer from Chris Smolinski of Spooks:

I tuned to 6529 this morning just before 9 AM local to hear V21, realized that it was an hour early now due to the change to DST and was coming up on 1300z not 1400z, but then was surprised to hear V21 anyway. Which makes me wonder now about the supposed purpose of V21, which has typically been claimed to be related to Cuban Air Defenses. [Txn Chris]

6529kHz 1402z 14/03 Babbler is up, an OM this morning singing the numbers. Pretty weak copy here in MD, just above the noise floor. CS US

## V24 [O] No Reports

SK01 [See V02/V02a]

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

## POLYTONES

XPA Daily Log March 2007

XPA [MFSK-20 Russian Intelligence Multitone System]

M12 [Replacing previously intercepted XPA]

1. 0700z: 10327kHz 2. 0720z: 11627kHz 3. 0740z: 13427kHz  
ID 364

1..2100z : 6842kHz 2. 2120z: 5924kHz 3. 2140z: 5178kHz  
ID 891

	ID/ msg /Sn/gc / dk/ lg		ID/ msg /Sn/gc / dk/ lg	
02Fri	364 1 02112 00083 27656 42752	[see notes]	891 1 954 28 000 000	[see notes]
06Tu	364 1 01403 00161 72851 17024	[see notes]	891 1 954 28 000 000	[see notes]
09Fri	364 1 09701 00205 77409 64066	[see notes]	891 1 954 28 000 000	[see notes]
13Tu	364 1 01391 00151 39281 36574	[see notes]	891 0 0 0	[see notes]
16Fri	364 1 00214 00181 91888 33105	[see notes]	891 0 0 0	
20Tu	364 2 00687 00047 45608 53454 00000 00000 00214 00181 91888 33105	[see notes]	891 000	[see notes]
23Fri	364 1 03377 00217 11039 15646	[see notes]	891 1 862 43 000 000	[see notes]
27Tu	364 1 00876 00149 56372 07563	[see notes]	891 000	[see notes]
30Fri	364 1 99304 00091 70442 34672	[see notes]	891 1 806 27 82366 – 26806 000 000	[see notes]

## March Morning Schedules.

Excellent signals for the sendings of 02/03 on frequencies retained from February. All reports of the same ilk from JoA and RRGB. Sendings were checked as being USB, this being due to claims they were sent in AM via the Group facility. 06/03 sendings were fair with PLondon, 0700z some QSB and tty QRM, 0720z started weakly at S3 rising to S5 – in fact a big carrier but poor audio, the best being 0740z 20dBs with excellent signals. JoA reported better signals. My previous theory about poor reception was that our Ham club caused unwanted desensing seems to have fallen by the way – their HF rotatable antenna came down during severe overnight storms; perhaps the desensing is due to something out of an embassy. 09/03, excellent audio with variable signal strengths with PLondon, received better by JoA.

Signals on 13/03 were weak with PLondon and the strengths matched those seen by Manolis in Greece. JoA fared better with his S meter needle flicking into the dBs region! A similar set of strengths were noted on 16/03 although something was desensing PLondon's work QTH rx on the 0720z sending. Not the amateur radio club as apart from their antenna having fallen of the tower, the lattice tower on which it was mounted has also disappeared. The same desensing was experienced on Tues 20/03 at 0720z and heard by JoA during a phone call. Two message format.

364 364 364 2 364 364 364 2 364 364 364 2

< Header [ident and no of messages. In this case 2]

**00687 00047 45608** 47146 73352 63638 55967 34462 50474 00778  
28464 55718 69971 52678 66365 58858 32413 97498 77037 18934  
14405 54689 42325 90466 51824 62215 11233 99484 77959 68459  
23559 21330 21022 17699 01148 06635 58464 00733 16925 33958  
33446 62111 71613 20470 69525 99757 07590 09967 00707 **63454**  
**00000 00000 00214 00181 91888** 95282 16140 30279 71416 95492  
37600 92008 68866 98710

< 64 groups [1<sup>st</sup> three sn, gc, dc]

<Note 00000 00000 spacer then 1<sup>st</sup> three sn, gc, dc of 2<sup>nd</sup> Msg]

29993 85921 10498 22571 48846 60300 71619 91642 13309 18616  
47340 08130 25301 05399 48978 35016 98757 23274 79935 57508  
72887 19854 58220 46630 05544 09455 50278 99382 89305 59575  
11428 70515 38477 50307 69090 97315 58799 68116 94625 76715  
56169 23587 69588 79367 38232 75932 98001 86598 70942 86674  
41303 75517 92887 29569 00152 75229 77172 85936 98300 91881  
50928 85509 10964 59959

< 64 groups

96560 53303 69926 50262 75005 87098 31745 09059 08746 33905  
25910 59929 03451 18905 61151 84684 97652 56875 72088 20841  
93881 13427 49390 77158 40620 34271 14705 85821 21831 11481  
19816 87552 50335 27414 21495 75877 15430 59387 47104 23365  
34900 43692 02284 42301 60749 84832 48149 11113 54645 41421  
11605 96381 16888 96260 31517 98138 47931 70924 41454 95704  
13539 67554 06414 90475

< 64 groups

40496 30636 92874 49534 64420 03922 93872 40393 28065 86885  
 30251 98718 92406 40421 43887 19596 63873 55511 14562 02236  
 69454 75188 87752 79747 10764 73637 09756 17305 04103 56156  
 25675 33309 62041 01617 28556 67234 48045 44091 19780 67380  
 14094 06167 49750 **33105**+++++

<44 groups

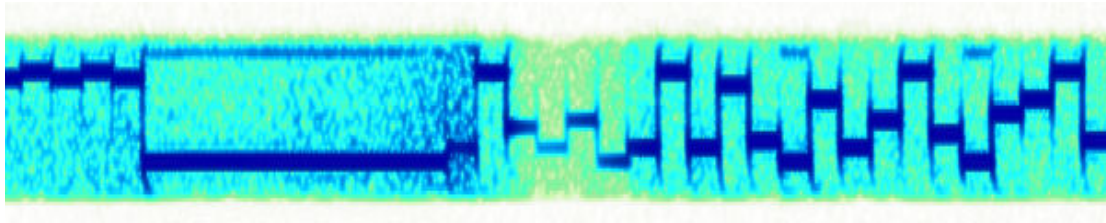
Check grp count::  $64 \times 3 + 44 - 6 = 230$

230 -2 gives total groups as 228  
 228 -47 gives 181 [2<sup>nd</sup> Msg gc]  
 228 -181 gives 47 [1<sup>st</sup> Msg gc]

In the above calculation the '6' is both messages uncounted groups sn, gc, dc whilst the '2' is 00000 00000.

Two poor sendings at 0700 and 0720z on 23/03 for PLondon but better reported via JoA.

Clocks forward at 0200 25/03 but XPA held z time at for these sendings for March, will go to 0600z in April. Poor signals again for PLondon for 27/03 but slightly better on the last sendings of March 2007. Best was 0740z on 30/03 although there was an apparent loss of power during the serial number, see below:



Loss can be seen in centre of image.

#### March Evening Schedules.

M12 again! Strong signals proving the link between XPA and M12. Especially with the change of freq occurring. Reports from JoA received.

Note that further messages intercepted on 6<sup>th</sup> and 9<sup>th</sup> March are repeats of the initial March message. Thanks to JoA, DoK and Gert for their reports on 09/03 when PLondon was at a meeting [of which you may well read more].

13/03 was again a repeat of the message intercepted on Fri 02/03, in fact the third repeat, however on the 13/03 PLondon and JoA intercepted a null message and unlike it's XPA counterpart we believe it replaced there was no third sending. This null message continued all the way through with the exception of 23/03 when a full 43 group message was sent.. Like XPA this apparently related M12 maintained GMT [z] after the change occurred on 25/03. The continuing null message was replaced with a full message on 30th with a 27 group message, received by PLondon on his ICF-SW100e miniature receiver.

#### XPA Daily Log April 2007

##### XPA [MFSK-20 Russian Intelligence Multitone System]

1. 0600z: 10118kHz 2. 0620z: 11118kHz 3. 0640z: 12118kHz  
ID364

ID/ msg /Sn/gc / dk/ lg

03Tu	111 000 03658 00001 00000 10140	[see notes]
06Fri	111 000 05791 00001 00000 10140	[see notes]
10Tu	111 000 03671 00001 00000 10140	[see notes]
13Fri	111 1 00734 00187 37538 46570	[see notes]
17Tu	111 1 00251 00001 00000 10140	[see notes]
20Fri	111 1 00489 00223 27725 56276	[see notes]
24Tu	111 1 08893 00193 09438 15524	[see notes]
27Fri	111 1 00820 00213 95599 02077	[see notes]

##### M12 [Replacing previously intercepted XPA]

1. 2000z : 9101kHz 2. 2020z: 6971kHz 3. 2040z: 5758kHz  
ID197

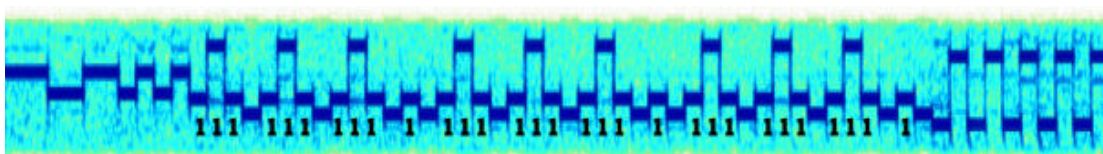
ID/ msg /Sn/gc / dk/ lg

197 000	[see notes]
197 000	[see notes]
~ no observation ~	
197 000	[see notes]
197 000	[see notes]
197 000	[see notes]
197 150 63 000 000	[see notes]

#### April Morning Schedules.

April kicked off using frequencies seen last in August 2006, signal strengths across the first three sendings 3<sup>rd</sup> to 10<sup>th</sup> remained good with the last sending being the strongest.

13/04 saw the first message of April but signal strengths were not exciting, S7, S9 and S7 respectively. On the 17<sup>th</sup> another message indicated, all sendings at excellent strengths, 20dBs, 40dBs and S5 rising to S9. However, no message as the construction was incorrect, shewing 1 when it should have been 000.



Spectrogram above shews the construction whilst the message printout looked like this:

111 111 111 1 111 111 111 1 111 111 111 1  
 00251 00001 00000 10140+++++

The transmissions of 20/04 were excellent with the last sending, 0640z, being slightly affected by QSB. The message was a 223 group offering and looked like this:

111 111 111 111 111 111 111 111 111 1

< Header [ident and no of messages]

00489 00233 27725 47144 56350 92659 50380 89784 30544 27644  
43512 64803 04159 07344 47102 02098 05981 25560 10259 24858  
41956 69617 55681 28944 36429 54711 45380 73887 46347 45103  
20779 89199 24449 00448 19789 06071 16712 29877 69149 60167  
42704 94452 75564 71007 60828 48804 85091 92212 86667 27299  
19067 60970 36195 15282 41245 59838 29615 45329 66416 29550  
12459 57852 93100 98909

< 64 groups [1<sup>st</sup> three sn, gc, dc]

98870 38025 44295 51470 95145 48465 29611 23157 74595 80921  
09673 12895 80392 12683 49313 62596 13949 89308 06827 22004  
71736 49541 21143 98258 77609 04499 72609 63322 47797 83153  
83508 28307 70973 65147 92489 28080 06329 46984 83658 99749  
39602 97535 03031 62623 14738 05435 61222 09659 54596 55960  
76671 29443 55184 83097 90988 30772 33807 91983 84101 39149  
79756 55656 75259 43923

< 64 groups

89410 80180 69869 03199 60595 15053 81067 96836 12438 12461  
02790 41301 20667 03966 32030 50086 50835 51542 85188 27329  
76088 59373 75024 68864 99028 76317 98537 26147 69798 14289  
75858 77693 70627 23793 97310 02907 64830 46841 04695 51172  
77742 13285 76192 54314 64426 73087 49381 39711 12617 10921  
46735 23448 52450 00559 65698 20999 11944 93011 26774 39577  
00043 25362 26836 41170

< 64 groups

71578 61704 82980 11863 30554 57036 22352 84021 34188 48134  
31477 96996 28368 30841 13566 38106 48943 65085 85701 80238  
84740 55562 10762 37672 18930 90154 25703 39923 35048 64678  
58096 27098 46042 24455 33853 60838 39901 36760 50034 23860  
24251 67635 23426 56267+++++

< 44 groups

64 x3 +44 -3 = 233 [The Group Count]

The transmissions of 24<sup>th</sup> April were variable in strength with 10dBs at 0600z being the best; the other two were measured at a poor S5 and S8/9 with PLondon whilst similar results were had by JoA.

27<sup>th</sup> Transmissions were excellent 40dBs 0600z, 20dBs 0620z and 0640z dropped to S9 with PLondon. JoA found signals of 35dBs and S8 for the last, whilst DoK said the signals were massive.

111 111 111 111 111 111 111 111 111 1

< Header [ident and no of messages]

00820 00213 95599 02168 49841 05426 43083 22424 64149 17368  
71234 87294 14848 76494 43593 83073 72214 90994 77431 40416  
30955 59944 57225 46852 15155 46456 16734 62144 12412 42368  
54437 21457 55055 22194 05042 18830 54512 72851 36799 62560  
19957 35041 56804 07822 47957 26064 10313 46960 84283 34024  
23312 75664 32008 26544 28711 26564 97683 86128 31725 12111  
11919 97167 18344 85499

< 64 groups [1<sup>st</sup> three sn, gc, dc]

18152 36931 72676 47703 07460 89283 94045 82803 28551 08654  
66313 62912 77784 29745 18528 64549 65155 62868 64211 30123  
33717 14603 61857 14077 19759 30730 53081 47068 39936 11839  
58005 90491 97929 34943 30762 54133 82600 14274 32650 49521  
06356 11224 41107 51329 72404 28914 53103 23178 64231 44437  
31562 17044 74189 02370 61567 37308 93688 07274 65583 96394  
35230 96729 12298 84542

< 64 groups

47207 33821 13089 82627 43778 41340 59670 58436 02919 90145  
86762 72345 04045 63604 01774 90364 26635 47719 97504 57784  
99124 42133 68943 10879 00387 03624 76985 99073 07287 03512  
23396 93961 33163 66437 21791 27836 23156 22595 57219 56221  
73662 06457 40327 44889 46620 33432 21344 61042 74759 82019  
66816 00074 23642 42138 41036 76726 58187 06454 18661 63558  
81049 77844 84009 85952

< 64 groups

39984 44136 86457 79130 90368 99407 51293 79803 41648 03104  
11853 69727 28665 70781 04308 09324 78899 28691 17324 77564  
77872 46739 00748 02077+++++

< 24 groups

64 x3 +24 -3 = 213 [The Group Count]

#### April Evening Schedules.

The April M12 frequencies were expected, with null messages being seen. Unlike the XPA, which this M12 replaces, no last sending for nulls. Usually good strength XJT has caused some problems on the 2000z sending but with characters audible over the usual cacophony of the XJT racket. Finally on 27/04 a 63 group message to round the May schedule of nulls off. Good strengths all round, including 2000z which experienced XJT as has come to be expected.

PoSW offers his thoughts on this recent round of Polytone transmissions [and M12] offering something extra on XJT, the bind of the 2000z sending to boot!

XPA Polytone;- the Tuesday + Friday evening polytone transmission seems to be a thing of the past having, as observed by E2k monitors in February, changed to M12 Morse although on the same frequencies which were used for XPA last year. In March was on 6,842 + 5,924 + 5,178 kHz with call "891". In April heard on 9,101 + 6,971 kHz with call "197", only heard on the occasions when I remembered to monitor this one with two minutes of "000" - no message so no third sending, but in event of a full message third sending likely to be 5,758 kHz used for XPA in April last year. However, the morning XPA continues with very strong signals and in suppressed carrier mode which means it has to be copied in USB, heard on Tuesday 6-March starting at 0700z on 10,327 kHz, 0720z on 11,627 kHz and 0740z 13,427 kHz, the same frequencies as in February and also in November last year. I have only been able to monitor the first sending so far in April, 0600z on 10118 kHz, moves by one hour following the start of summertime so still starts at 7 AM UK time.



**XJT**:- Everyone who tunes the shortwave bands will be familiar with these confounded things roaring away with massive signals to no obvious purpose although from time to time a number station of the E06/S06/M14 family may be found very close to an XJT as if trying to hide from the casual observer, usually slightly on the HF side of an XJT so that using a receiver in upper sideband mode will, if it has a decent IF filter, suppress the interference on the LF side and leave the number station in the clear. The lowest frequencies used by XJT seem to be in the region of 2 MHz, just above the 160 metre amateur band - or so I thought until a few weeks ago when I came across one churning away on 525 kHz just off the LF end of the medium wave broadcast band. This was on Wednesday 28-Feb at 2225z and was an S9 signal. It was heard on several occasions in March, usually stronger in the hours of darkness than in daylight although in April it seems to have gone. I had no idea these things were operating on such a low frequency; also on several occasions in March there was an XJT operating just off the other end of the medium wave band on 1,679 kHz [Tnx PoSW]

Thanks also to JoA, PoSW, RNGB and DoK [Special Techniques] for their assistance. A special thanks to the anon person who supplied the printouts of the messages direct to PLondon.

### S30 The Pip

5448kHz 1520z 03/03 [The "pip" with message, Russian YL, strong] MG  
Msg text added by Mndbs:

SAT

(pip-pip)  
For 080: 037 918 380 013 692 885 334 894 140  
For 080: 037 918 380 013 692 885 334 894 140  
How do you copy? How do you copy?  
(pause)  
For 080: 037 918 380 013 692 885 334 894 140  
For 080: 037 918 380 013 692 885 334 894 140  
How do you copy? How do you copy? Over  
(pip-pip)

### NUMBER PREDICTIONS      Gert's excellent predictions:

Prediction May 2007:

<u>Date</u>	<u>Day</u>	<u>Time (utc)</u>	<u>TX</u>	<u>Name</u>	<u>Freq (kHz)</u>
1	tue	06.00 / 20 / 40	V07	Spanish lady 000 000	14621 16321 17521
1	tue	06.00 / 20 / 40	XPA	Polytones	10327 11627 13427
1	tue	10.30	E11	Oblique	9610
1	tue	12.30	E11	Oblique	9448
1	tue	13.00	E11	Oblique	9950 8033 or search
1	tue	14.00	E06	English man 00000	15840
1	tue	14.00	E17(z)	English lady	10240
1	tue	15.00	E06	English man 00000	13380
1	tue	16.30	E11	Oblique	7377
1	tue	17.02	M45	Sister of S21	5074 and / or 5474
1	tue	17.42	S21	Russian lady	4973 and / or 5373
1	tue	18.00	M01		5280
1	tue	20.00	M01		4905
1	tue	20.00 / 20 / 40	M12	Ending 000 000	10416 9252 7654 frmr XPA
2	wed	09.00	S11a	Cherta	6524
2	wed	11.00	E11	Oblique	9902
2	wed	16.30	E11	Oblique	7377
2	wed	17.00 / 20 / 40	E07	English man 000 000	13388 12088 10188
2	wed	20.00 / 20 / 40	E07	English man 000 000	12218 11163 9344
2	wed	21.00	S11a	Cherta	5358 4016 or search
3	thu	06.00 / 20 / 40	V07	Spanish lady 000 000	14621 16321 17521
3	thu	07.15	E11	Oblique	9179
3	thu	08.00	E11	Oblique	7663
3	thu	08.00	E17(z)	English lady	10240 10320 11170 or search
3	thu	08.45	S11a	Cherta	8800 12202 or search
3	thu	09.00 +/-5min	E17(z)	English lady	7635
3	thu	10.30	S11a	Cherta	7377
3	thu	13.30	E11	Oblique	9179 inactive?
3	thu	16.30	E11	Oblique	7377
3	thu	17.02	M45	Sister of S21	5074 and / or 5474
3	thu	17.42	S21	Russian lady	4973 and / or 5373
3	thu	18.00	M01		5280
3	thu	18.30	G06	German lady 00000	6887 each 2 weeks
3	thu	20.00	M01		4905
3	thu	20.10 / 30 / 50	E07	English man 000 000	13368 12177 10749

<u>Date</u>	<u>Day</u>	<u>Time (utc)</u>	<u>TX</u>	<u>Name</u>	<u>Freq (kHz)</u>
4	fri	06.00 / 20 / 40	XPA	Polytones	10327 11627 13427
4	fri	08.00	E11	Oblique	8091
4	fri	08.45	S11a	Cherta	6849
4	fri	10.30	E11	Oblique	9610
4	fri	12.00	E11	Oblique	10125
4	fri	12.30	E11	Oblique	9448
4	fri	16.30	E11	Oblique	7377
4	fri	19.30	G06	German lady 00000	5943 each 2 weeks
4	fri	20.00 / 20 / 40	M12	Ending 000 000	10416 9252 7654 frmr XPA
5	sat	15.00	M01		6434
5	sat	16.30	E11	Oblique	7377
5	sat	20.20	G06	German lady 00000	12210 poss not each week
6	sun	16.30	E11	Oblique	7377
6	sun	17.00 / 20 / 40	E07	English man 000 000	13388 12088 10188
6	sun	18.30	E06	English man 00000	10190
6	sun	19.30	E06	English man 00000	8180
7	mon	11.50	E23	Former G02	8188
7	mon	16.30	E11	Oblique	7377
7	mon	19.00	G06	German lady 00000	10850
7	mon	20.00	G06	German lady 00000	8170
7	mon	20.00 / 20 / 40	E07	English man 000 000	12218 11163 9344
8	tue	06.00 / 20 / 40	V07	Spanish lady 000 000	14621 16321 17521
8	tue	06.00 / 20 / 40	XPA	Polytones	10327 11627 13427
8	tue	10.30	E11	Oblique	9610
8	tue	12.30	E11	Oblique	9448
8	tue	13.00	E11	Oblique	9950 8033 or search
8	tue	14.00	E06	English man 00000	15840
8	tue	14.00	E17(z)	English lady	10240
8	tue	15.00	E06	English man 00000	13380
8	tue	16.30	E11	Oblique	7377
8	tue	17.02	M45	Sister of S21	5074 and / or 5474
8	tue	17.42	S21	Russian lady	4973 and / or 5373
8	tue	18.00	M01		5280
8	tue	20.00	M01		4905
8	tue	20.00 / 20 / 40	M12	Ending 000 000	10416 9252 7654 frmr XPA
9	wed	09.00	S11a	Cherta	6524
9	wed	11.00	E11	Oblique	9902
9	wed	11.50	E23	Former G02	8188
9	wed	16.30	E11	Oblique	7377
9	wed	17.00 / 20 / 40	E07	English man 000 000	13388 12088 10188
9	wed	20.00 / 20 / 40	E07	English man 000 000	12218 11163 9344
9	wed	21.00	S11a	Cherta	5358 4016 or search
10	thu	06.00 / 20 / 40	V07	Spanish lady 000 000	14621 16321 17521
10	thu	07.15	E11	Oblique	9179
10	thu	08.00	E11	Oblique	7663
10	thu	08.00	E17(z)	English lady	10240 10320 11170 or search
10	thu	08.45	S11a	Cherta	8800 12202 or search
10	thu	09.00 +/-5min	E17(z)	English lady	7635
10	thu	10.30	S11a	Cherta	7377
10	thu	11.50	E23	Former G02	8188
10	thu	13.30	E11	Oblique	9179 inactive?
10	thu	16.30	E11	Oblique	7377
10	thu	17.02	M45	Sister of S21	5074 and / or 5474
10	thu	17.42	S21	Russian lady	4973 and / or 5373
10	thu	18.00	M01		5280
10	thu	18.30	G06	German lady 00000	6887 each 2 weeks
10	thu	20.00	M01		4905

<u>Date</u>	<u>Day</u>	<u>Time (utc)</u>	<u>TX</u>	<u>Name</u>	<u>Freq (kHz)</u>
10	thu	20.10 / 30 / 50	E07	English man 000 000	13368 12177 10749
11	fri	06.00 / 20 / 40	XPA	Polytones	10327 11627 13427
11	fri	08.00	E11	Oblique	8091
11	fri	08.45	S11a	Cherta	6849
11	fri	10.30	E11	Oblique	9610
11	fri	12.00	E11	Oblique	10125
11	fri	12.30	E11	Oblique	9448
11	fri	16.30	E11	Oblique	7377
11	fri	19.30	G06	German lady 00000	5943 each 2 weeks
11	fri	20.00 / 20 / 40	M12	Ending 000 000	10416 9252 7654 frmr XPA
12	sat	15.00	M01		6434
12	sat	16.30	E11	Oblique	7377
12	sat	20.20	G06	German lady 00000	12210 poss not each week
13	sun	16.30	E11	Oblique	7377
13	sun	17.00 / 20 / 40	E07	English man 000 000	13388 12088 10188
13	sun	18.30	E06	English man 00000	10190
13	sun	19.30	E06	English man 00000	8180
14	mon	16.30	E11	Oblique	7377
14	mon	20.00 / 20 / 40	E07	English man 000 000	12218 11163 9344
15	tue	06.00 / 20 / 40	V07	Spanish lady 000 000	14621 16321 17521
15	tue	06.00 / 20 / 40	XPA	Polytones	10327 11627 13427
15	tue	10.30	E11	Oblique	9610
15	tue	12.30	E11	Oblique	9448
15	tue	13.00	E11	Oblique	9950 8033 or search
15	tue	14.00	E06	English man 00000	15840
15	tue	14.00	E17(z)	English lady	10240
15	tue	15.00	E06	English man 00000	13380
15	tue	16.30	E11	Oblique	7377
15	tue	17.02	M45	Sister of S21	5074 and / or 5474
15	tue	17.42	S21	Russian lady	4973 and / or 5373
15	tue	18.00	M01		5280
15	tue	20.00	M01		4905
15	tue	20.00 / 20 / 40	M12	Ending 000 000	10416 9252 7654 frmr XPA
16	wed	09.00	S11a	Cherta	6524
16	wed	11.00	E11	Oblique	9902
16	wed	16.30	E11	Oblique	7377
16	wed	17.00 / 20 / 40	E07	English man 000 000	13388 12088 10188
16	wed	20.00 / 20 / 40	E07	English man 000 000	12218 11163 9344
16	wed	21.00	S11a	Cherta	5358 4016 or search
17	thu	06.00 / 20 / 40	V07	Spanish lady 000 000	14621 16321 17521
17	thu	07.15	E11	Oblique	9179
17	thu	08.00	E11	Oblique	7663
17	thu	08.00	E17(z)	English lady	10240 10320 11170 or search
17	thu	08.45	S11a	Cherta	8800 12202 or search
17	thu	09.00 +/-5min	E17(z)	English lady	7635
17	thu	10.30	S11a	Cherta	7377
17	thu	13.30	E11	Oblique	9179 inactive?
17	thu	16.30	E11	Oblique	7377
17	thu	17.02	M45	Sister of S21	5074 and / or 5474
17	thu	17.42	S21	Russian lady	4973 and / or 5373
17	thu	18.00	M01		5280
17	thu	18.30	G06	German lady 00000	6887 each 2 weeks
17	thu	20.00	M01		4905
17	thu	20.10 / 30 / 50	E07	English man 000 000	13368 12177 10749
18	fri	06.00 / 20 / 40	XPA	Polytones	10327 11627 13427
18	fri	08.00	E11	Oblique	8091
18	fri	08.45	S11a	Cherta	6849

<u>Date</u>	<u>Day</u>	<u>Time (utc)</u>	<u>TX</u>	<u>Name</u>	<u>Freq (kHz)</u>
18	fri	10.30	E11	Oblique	9610
18	fri	12.00	E11	Oblique	10125
18	fri	12.30	E11	Oblique	9448
18	fri	16.30	E11	Oblique	7377
18	fri	19.30	G06	German lady 00000	5943 each 2 weeks
18	fri	20.00 / 20 / 40	M12	Ending 000 000	10416 9252 7654 frmr XPA
19	sat	15.00	M01		6434
19	sat	16.30	E11	Oblique	7377
19	sat	20.20	G06	German lady 00000	12210 poss not each week
20	sun	16.30	E11	Oblique	7377
20	sun	17.00 / 20 / 40	E07	English man 000 000	13388 12088 10188
20	sun	18.30	E06	English man 00000	10190
20	sun	19.30	E06	English man 00000	8180
21	mon	11.50	E23	Former G02	8188
21	mon	16.30	E11	Oblique	7377
21	mon	20.00 / 20 / 40	E07	English man 000 000	12218 11163 9344
22	tue	06.00 / 20 / 40	V07	Spanish lady 000 000	14621 16321 17521
22	tue	06.00 / 20 / 40	XPA	Polytones	10327 11627 13427
22	tue	10.30	E11	Oblique	9610
22	tue	12.30	E11	Oblique	9448
22	tue	13.00	E11	Oblique	9950 8033 or search
22	tue	14.00	E06	English man 00000	15840
22	tue	14.00	E17(z)	English lady	10240
22	tue	15.00	E06	English man 00000	13380
22	tue	16.30	E11	Oblique	7377
22	tue	17.02	M45	Sister of S21	5074 and / or 5474
22	tue	17.42	S21	Russian lady	4973 and / or 5373
22	tue	18.00	M01		5280
22	tue	20.00	M01		4905
22	tue	20.00 / 20 / 40	M12	Ending 000 000	10416 9252 7654 frmr XPA
23	wed	09.00	S11a	Cherta	6524
23	wed	11.00	E11	Oblique	9902
23	wed	11.50	E23	Former G02	8188
23	wed	16.30	E11	Oblique	7377
23	wed	17.00 / 20 / 40	E07	English man 000 000	13388 12088 10188
23	wed	20.00 / 20 / 40	E07	English man 000 000	12218 11163 9344
23	wed	21.00	S11a	Cherta	5358 4016 or search
24	thu	06.00 / 20 / 40	V07	Spanish lady 000 000	14621 16321 17521
24	thu	07.15	E11	Oblique	9179
24	thu	08.00	E11	Oblique	7663
24	thu	08.00	E17(z)	English lady	10240 10320 11170 or search
24	thu	08.45	S11a	Cherta	8800 12202 or search
24	thu	09.00 +/-5min	E17(z)	English lady	7635
24	thu	10.30	S11a	Cherta	7377
24	thu	11.50	E23	Former G02	8188
24	thu	13.30	E11	Oblique	9179 inactive?
24	thu	16.30	E11	Oblique	7377
24	thu	17.02	M45	Sister of S21	5074 and / or 5474
24	thu	17.42	S21	Russian lady	4973 and / or 5373
24	thu	18.00	M01		5280
24	thu	18.30	G06	German lady 00000	6887 each 2 weeks
24	thu	20.00	M01		4905
24	thu	20.10 / 30 / 50	E07	English man 000 000	13368 12177 10749
25	fri	06.00 / 20 / 40	XPA	Polytones	10327 11627 13427
25	fri	08.00	E11	Oblique	8091
25	fri	08.45	S11a	Cherta	6849
25	fri	10.30	E11	Oblique	9610

<u>Date</u>	<u>Day</u>	<u>Time (utc)</u>	<u>TX</u>	<u>Name</u>	<u>Freq (kHz)</u>
25	fri	12.00	E11	Oblique	10125
25	fri	12.30	E11	Oblique	9448
25	fri	16.30	E11	Oblique	7377
25	fri	19.30	G06	German lady 00000	5943 each 2 weeks
25	fri	20.00 / 20 / 40	M12	Ending 000 000	10416 9252 7654 frmr XPA
26	sat	15.00	M01		6434
26	sat	16.30	E11	Oblique	7377
26	sat	20.20	G06	German lady 00000	12210 poss not each week
27	sun	16.30	E11	Oblique	7377
27	sun	17.00 / 20 / 40	E07	English man 000 000	13388 12088 10188
27	sun	18.30	E06	English man 00000	10190
27	sun	19.30	E06	English man 00000	8180
28	mon	09.50	E23	Former G02	8188
28	mon	16.30	E11	Oblique	7377
28	mon	20.00 / 20 / 40	E07	English man 000 000	12218 11163 9344
29	tue	06.00 / 20 / 40	V07	Spanish lady 000 000	14621 16321 17521
29	tue	06.00 / 20 / 40	XPA	Polytones	10327 11627 13427
29	tue	10.30	E11	Oblique	9610
29	tue	12.30	E11	Oblique	9448
29	tue	13.00	E11	Oblique	9950 8033 or search
29	tue	14.00	E06	English man 00000	15840
29	tue	14.00	E17(z)	English lady	10240
29	tue	15.00	E06	English man 00000	13380
29	tue	16.30	E11	Oblique	7377
29	tue	17.02	M45	Sister of S21	5074 and / or 5474
29	tue	17.42	S21	Russian lady	4973 and / or 5373
29	tue	18.00	M01		5280
29	tue	20.00	M01		4905
29	tue	20.00 / 20 / 40	M12	Ending 000 000	10416 9252 7654 frmr XPA
30	wed	09.00	S11a	Cherta	6524
30	wed	09.50	E23	Former G02	8188
30	wed	11.00	E11	Oblique	9902
30	wed	16.30	E11	Oblique	7377
30	wed	17.00 / 20 / 40	E07	English man 000 000	13388 12088 10188
30	wed	20.00 / 20 / 40	E07	English man 000 000	12218 11163 9344
30	wed	21.00	S11a	Cherta	5358 4016 or search
31	thu	06.00 / 20 / 40	V07	Spanish lady 000 000	14621 16321 17521
31	thu	07.15	E11	Oblique	9179
31	thu	08.00	E11	Oblique	7663
31	thu	08.00	E17(z)	English lady	10240 10320 11170 or search
31	thu	08.45	S11a	Cherta	8800 12202 or search
31	thu	09.00 +/-5min	E17(z)	English lady	7635
31	thu	09.50	E23	Former G02	8188
31	thu	10.30	S11a	Cherta	7377
31	thu	13.30	E11	Oblique	9179 inactive?
31	thu	16.30	E11	Oblique	7377
31	thu	17.02	M45	Sister of S21	5074 and / or 5474
31	thu	17.42	S21	Russian lady	4973 and / or 5373
31	thu	18.00	M01		5280
31	thu	18.30	G06	German lady 00000	6887 each 2 weeks
31	thu	20.00	M01		4905
31	thu	20.10 / 30 / 50	E07	English man 000 000	13368 12177 10749

[Many Thanks Gert]!

‘WALLS HAVE EARS.’ [Penned by HJH]

Part 3:

#### FUNK UND FUNKTECHNISCHE STORBATALLION 18

We will now examine a unit of the NVA VM which, if it's title is any guide, was one which was intended not just for passive SIGINT/ELINT, but for offensive Electronic Warfare. The clue is in the description "STORBATALLION", which translates literally as "JAMMING BATALLION". Overall responsibility for EW in the Navy of the GDR belonged to sub detachment FEK, and was organised by the Chief of Staff. Btn. 18 reported directly to, and was under the direct control of, the head of the Sub directorate for Electronic Warfare. Raised and established in 1976 in HANSHAGEN/GREIFSWALD it was initially named Electronic Warfare Battalion 18, until it was retitled in 1986. By now, in the Navy of the GDR, EW had been recognised as a vitally important branch of the service, and a prime source of intelligence gathering. The results of the Falklands War had been studied and analysed with great interest. The unit was renamed, re equipped with up-dated technological equipment to enable it to fulfil the various roles of ELINT, SIGINT, calibration and jamming. A high proportion of its personnel were regular career troops, who were, as a result, highly motivated. This battalion was also first in line in as far as the issue of new and more modern equipment was concerned. Personnel efficiency and levels of training were closely monitored, and were, of course, highly valued. In all large-scale fleet manoeuvres, the battalion was involved at all levels. This included such duties as calibration, monitoring, and SIGINT. From 1978 onwards, a high state of combat readiness was maintained at all levels throughout the battalion. The aim was carrying out ELINT and SIGINT missions against the radio communications of the NATO sea forces, with emphasis on the degradation of the radio communications of those units. The combat readiness of those units tasked with Electronic Warfare duties was steadily improved both qualitatively and quantitatively. With the unit's transfer to BAD SULZE/BOHRENDORF, more improvements were made. These were achieved by the introduction of a new personnel structure with better training and selection. This was coupled with more modern SIGINT, and ELINT analysis techniques. These added new dimensions.

Gradually, a higher state of combat readiness was achieved, (always by virtue of training.) and in the event of NATO exercises, the combat alert state of units was always raised with the inclusion of mobile reconnaissance technology, and material. The need for a UKW (VHF) SIGINT /ELINT unit on the coast became apparent, preferably located at BOLTENHAGEN/TARNEWITZ or in KUHLLUNGSBORN. In 1984, with the technology and equipment of the then serving ECM units of the HGS, the leadership of the GD was substantially improved. Up until that time the exchange of SITREPS and the results of the various SIGINT and ELINT missions could only be passed between command staffs twice a day. Now, the command staffs could access these results and intelligence at any time, and also retrieve it. Naturally, the ELINT/SIGINT results of FD 18 were also used. Another substantial improvement was the co-operation between FD 18, which was responsible for SIGINT/ELINT duties on behalf of the Head of Reconnaissance. The exchange of intelligence between DHFEK-HGS and DGHD-Fu-FuSB-18 took place over secure signals communications links. The Battalion was given its call to stand to over a military comms link, by means of codewords. Within 50 minutes of receiving this call, the units were re-inforced and the Battalion complete with Command Post Staff, two HF radio jamming detachments, one HF SIGINT detachment, one Intelligence evaluation troop, one VHF jamming troop, one SIGINT/ELINT jamming detachment, and a signals communications detachment, were all fully armed accoutred and ready to march with full ammunition issued. 25 minutes after the call to stand to was issued, a military bus drove from the living quarters of the barracks, and the effect which this had on the freedom of action and movement on the freedom of action and movement of the Regular Army troops needs no amplification here! Deployment followed rigidly laid down guidelines, and followed pre-determined and pre-ordained tasking and mission guidelines. Preferred deployment locations were; - TARNEWITZ: KUHLLUNGSBORN: DARSSER ORT: CAPE ARKONA: ZITTERPENNINGSHAUSEN/STRAHLSUND. Communications down to single unit level and the higher staff formations while on the march was maintained by radio. Following full deployment, priority was given to wire landline communications links. Radio communication was maintained as secondary means of communication. Co-operation between the troop detachments of the FEK, The Baltic Fleet and the PSKF did not take place in practice. The BF held themselves back, and the Poles trusted no-one. (This is the personal opinion of the author of the piece from which this information was translated and obtained. ) The co-operation with FD18 can be described as good, the co-operation with BFEK-5 (MB V, 5th. Army) GOLDBERG developed promisingly. This was, however, prior to both Commanders becoming too obsessed with the minutiae of the various duties of their respective services. The fact that the unit had no Radio Direction Finding equipment of it's own until 1989, meant that it relied on FD18 and BFEK18 for it's RDF Intelligence and tasking, which meant that in practice a good working relationship developed. In the next section, we shall how the Air Force carried out it's SIGINT / ELINT operations.

(Author's note. The reader will notice the number of times the number 18 appears. It will be recalled that 18 was the tactical number for the NVA VM)

#### NVA LUFTWAFFE SIGINT/E.C.M. OPERATIONS.

No less vital to the SIGINT/ELINT operations of the former GDR were the airborne operations, which would target chiefly, the communications traffic and radar defences of the opposing NATO air forces. Of particular interest would be radar frequencies, air to air, air to ground, and, naturally, Ground control intercept, which would vector intercepting fighters onto any Warsaw Pact aircraft entering or approaching NATO airspace. Close to the border, at a medium or high altitude, they would be in an ideal position to monitor VHF/UHF communications links of the NATO forces, as the "line of sight" limitations, which normally limit such comms. to horizon to horizon do not apply. One of the biggest undertakings to gather intelligence on these was known as Operation "DISKANT", and aircraft of the NVA-LUFTWAFFE flew it. The aircraft used were Soviet built AN26s. Physically these resemble the Fokker "Friendship" and it is a high wing twin-engine monoplane. The Dutch built "Friendship" will be familiar to anyone who flies on inter city flights, as it was designed as a short haul air liner, although, like many aircraft, it has been used in many roles. The aircrews were provided by TG-34 of the NVA Air Force. (TG stands for TRANSPORT GESCHWADER or TRANSPORT WING.) DISKANT operations began, according to one source on the LUROKO website, which deals with the use of the AN26, as early as 1962. Another source, on the NVA FORUM website, states that ELINT/SIGINT flights in the NVA Luftwaffe began in the 50s. The same source states that he monitored the attack on 2 West German "Seahawk" aircraft, which had strayed into GDR airspace. The GCI conversation is recalled in full by this contributor to the source website. It consisted of three words. "Holt sie 'runter!" (Fetch them down) In the event both aircraft made it back to base, albeit seriously damaged. A very small number of personnel were indoctrinated into this operation, as can be imagined. (The author recalls his own EW days, and will put god money on the fact that it was the same in ALL Armed Forces, East or West of the wire! The operators were provided by FuAR2, and included Morse specialists, similar to our own "Special Operators, "who almost exclusively monitored, and never sent, traffic. Amongst the foreign languages spoken by these operators were English, Czech, and Russian.

The best source of information for DISKANT is the excellent article written by Herr Volker Liebscher It appeared in "FLUGREVUE" the famous German Aviation magazine, although it can also be read in the very informative web site about the former DDR Air Force found at. DDR-LUFTWAFFE.de For any one interested in the former Air Force of the GDR, this site is one of the best sources one can find. . This is what happened, and this was how DISKANT was run.

This operation was brought into existence and nurtured by it's protectors Lt. General Alfred Krause, the then head of Foreign Intelligence, and the director of SIGINT/ECM in the department then responsible for such things in the STASI, our old friends HAUPT ABTEILUNG III, run by Major General Horst Mannchen, whom we have already met and examined in some detail. Accordingly, personnel of both Air Force and STASI would be involved in the planning, preparation, and carrying out of these missions.

Officers and NCOs and career soldiers of our friends at FuAR 2 would jointly carry them out. (Later to be Central Radio Service NVA), and officers of HAIH of STASI. The author of the piece which supplied so much information for this article, Volker Liebscher, was tasked with these missions between April 1984 and March 1987. Such missions were given the code name of "RELAYS". Mainly, they were to improve the SIGINT missions by upgrading the technical knowledge and equipment at that time in use. The importance attached to these missions can be gauged by the very "hands on" approach adopted by the two generals who were mentioned earlier. Both made several personal inspections of these missions and equipment.

The first flight was on 3<sup>rd</sup> April 1984 and was a flight test of 140 minutes duration. The actual machine used is now uncertain, but was probably "376." Up until the end of 1987, different machines were used, and the aircrews were rotated. The author of the article on which this piece is based, Herr Volker Liebscher, flew personally with a dozen different flight commanders. He recalls that, without exception, the working relationship between crewmembers was good. The start of 1985 saw a change of designation to the INTRFLUG registration of DDR-SBD, although this later reverted to "376". The reason for this was the use, at this time, of these aircraft in the famine relief effort in Ethiopia. The aircrews of TS-34 made many such relief flights, successfully delivering food and aid to the starving population. Obviously, such flights could not have been made with the aircraft wearing NVA camouflage and tactical markings. (AUTHOR'S NOTE. INTERFLUG was the national airline of the GDR.)

#### KITTING OUT.

So, how were the aircraft converted and what did they carry? Let's see. The loading bay of each aircraft was well suited to the job in hand. The workspace contained seating for 5 men, one behind the other. The first 4 personnel were air force, and the 5<sup>th</sup> and last, right at the aircraft rear, immediately in front of the loading hatch, was the STASI officer.

Reportedly, this was a cold place to work, and duty was only carried out once a month for 2 to 4 days. Each workstation had its own seat and workbench, and was provided with its own generator. The power supply was switched on from the cockpit only after the start up had been completed and the aircraft was in flight. Aircraft "373", which had been fitted out for "DISKANT" missions since 25/11/86, had some further special modifications. The bullet shaped window, which, normally, was only fitted to the navigators station, was now added in the fuselage, in two of the rear portholes. In these, special antennas could be set up. Additional antennas were fitted to the aircraft cabin and wired in to the workstations. These antennas allowed a frequency range of below 30mhz up to above 12Ghz to be monitored. The results of the SIGINT mission were adjusted on the basis of a real time flight recording on film of the mission results compared to the distance recording of the flight.

These flights were of 2 standard courses and mission -specific flight zones.(e.g. in the case of NATO manoeuvres, it would be adjacent to the exercise area.) Course 1 was flown at an altitude of 6,100 metres and was flown along the flight path DRESDEN - KARL MARX CITY - , NEUSTADT - , STEINBACH- STEINBACH - HALLENBERG, - BAD FRANKENHAUSEN, STENDAL, - WILSMARK- SCHWERIN - WISMAR followed by three more turning points over the sea to fly in the direction of PEENEMUNDE .

Course 2 was flown at an altitude of 3650 metres, and the route was as follows;- DRESDEN- KARL MARX STADT- PLAUE - SAALFELD - SCHLEUSINGEN - BAD SALZUNGEN - BLEICHERODE - NORDHAUSEN - HALBERSTADT - GARDELEGEN - WITTENBERGE - HAGENOW - GREVESMUHLEN - KLUTZ. This was followed by four turning points over the sea, likewise turning back to PEENEMUNDE. There, the aircraft were refuelled and they flew back to base along the same route.

Frequently, during these flights, the aircraft would turn over KLUTZ or SCHWERIN, and fly back to the start point at DRESDEN. or land in between at LAAGE and then start the return flight. Airspeed was about 420 kph. During these flights we were, naturally, detected by enemy radar, which then plotted and monitored our flight. Along our flight course along the border, we carried out our SIGINT/ELINT missions. Over the lake, we were often accompanied by opposing aircraft. These could often be fighters such as F16s, which sometimes made mock attacks but only from their side of the border. More dangerous, however, were the opposing SIGINT/ELINT aircraft of the Federal (West) German Air Force or Navy. Since 1966 the Federal Navy had been using the BREGUET ATLANTIC( A maritime patrol aircraft, used by the West German Navy for maritime patrol and reconnaissance, SIGINT/ELINT duties and used as AWACS and Search and rescue. It is a twin-engine aircraft of French manufacture. AUTHOR'S NOTE.)

#### POSTSCRIPT

Aircraft "373" became, on transfer to the BUNDESWEHR LUFTWAFFE 52-10. She was written off after a air accident at Willhelmshaven. Most other AN 26 aircraft have been disposed of to museums in Russia. (Source LURKO)



#### N.V.A. (ARMY) SIGINT/ELINT UNITS AND TASKING.

The author has been fortunate to make contact with 2 former ECM operators of the NVA, Mario Frost, and Hans Vogl. Both served as ECM and SIGINT operators in the NVA. I am indebted to them for their help in the preparation of this article. The following is taken from their websites and email exchanges. It describes the day-to-day life and training of an ECM/SIGINT operator in the Army of the GDR.

It also contains a description of the equipment used for the various SIGINT/ELINT, RDF Duties and communications jamming in which these units were involved. I have translated the German language sections so as to make sense as we would read them in English.

Thus, for FUNKAUFKLARUNG, 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. I have endeavoured to convey the meaning and thoughts of the authors in this, and the preceding sections about the NVA Navy and Air Force. Moving on to the next section, we shall look at the NVA\_ GT (Border Guards), and NVA\_ ARMY SIGINT/ECM operations.

#### NVA GRENZTRUPPEN (BORDER GUARDS)

Being, as they were, closer to the opposition than almost any other unit of the Armed Forces of the GDR, it is only logical that these Border Troops, the East German equivalent of the Bundesgrenzschutz(Federal Border Guards) should have had dedicated SIGINT/ ELINT units. The following is from the NVA Forum discussions and interviews with former East German GT personnel. (GT= Grenztruppen, and this is the abbreviation which the author will use for the duration of this article.)

The SIGINT units of the GT were under the direct subordination of the Border Guard Command. They initially comprised 8 detachments, whose area depots were as follows:- SCHATTIN ; ZIEMENDORF ; OHRSLIBEN ; HEILIGENSTADT ; GERSTUNGEN – HERDA; ROHILD ; SONNENBERG ; GEFFELL-GATTENGROW.

Sources give the unit's designation at disbandment as FUNKDIENST 16 (RADIO SERVICE 16)

In the 60s, the equipment used by the GT SIGINT troops consisted of the following:- (1) R125 (2) R309 and (3) R 313. At this time it was composed of 6 SIGINT detachments, under the control of FuAZ 16. (FUNKAUFKLARUNG ZENTRALE 16 or Central SIGINT Control 16.)

This establishment was later increased to 8 SIGINT detachments. One detachment was fully mobile to be deployed to any point where SIGINT was deemed to be an urgent requirement. One of the sources consulted by the author in preparing this article says that training was carried out at PERLEBERG, where 10 SIGINT operators every 6 months were trained. On the roofs of the buildings where training was carried out were aeries of all description, chiefly of a nature suitable for VHF/UHF transmissions, i.e. Yagi and Rhomboid and similar. Given that most of the target RT traffic was in the VHF/UHF band, this is entirely logical. The training unit was designated 8 FuAK, and the chief instructor at the time of disbandment was Lt. Col. RUDERISCH. For those interested in such snippets, his training call sign was RUD2. According to the same source, much of the radio equipment used by this unit was of Hungarian manufacture. The units concerned never used the NVA-GT phonetic alphabet, which was identical to the other NVA Armed Forces (See Annexe at end of article) The mastering of the Morse code was not a pre requisite, which, given that much of the radio traffic targeted was in the VHF/UHF frequency range, is not surprising. Tasking of these units was as follows; monitoring the radio traffic of the West German Border Guards, Customs Authorities and Customs and civil Police. In Berlin, a prime target would have been the West German Schutzpolizei, or Schupos. At this time the two Berlins were still divided and no West German Armed Forces were allowed in the city. This was circumvented by the West Berliners having a 3, 500(approx) strong police force which was given military training. (British and American Forces were an even bigger deterrent, and if all else failed, the French were there to give them stomach ache with their rations!!!) The unit responsible for monitoring the huge volume of radio traffic generated by all this was FuAK 9 based at Gross Glienicke, where the famous Glienicke Bridge, of spy swap fame, is located. Also included in the tasking was the monitoring of all military radio traffic up to a depth of 70 kilometres into West Germany. In 1983, a unit was formed with the sole purpose of monitoring the radio traffic of the armoured reconnaissance regiments of the US Army. Units and locations were as follows:-

FuAZ16 (later FD16) PFALZ (HQ and staff)  
FuAT1 LEHMSDORF  
FuAT 2 SELMSDORF  
FuAT 3 ZIEMENDORF  
FuAT 4 BARNEBERG  
FuAT 5 HERDA  
FuAT 6 ROHILD  
FuAT 7 SONNENBERG-KOPPELSDORF  
FuAT 8 GARTENGROS  
FuAT 9 GROSS GLIENICKE (BERLIN, as mentioned)

In closing this section on the GT SIGINT detachments, a quote from a source who was a former senior officer in the NVA Army is appropriate. Although highly secret the existence of such SIGINT units was known to the inner circle of the Armed Forces of the GDR. The depth of 70 kilometres is a little suspect, as 50 is a little more realistic. A helicopter squadron (Sq.16 of the NVA GT) was tasked with SIGINT/ELINT duties. It was found that an aircraft at an altitude of between 1500 and 2000 metres can receive RT traffic up to a depth of 150 kilometres. (See the earlier description of the DISKANT missions flown by the NVA Luftwaffe) During Exercise Autumn Forge, a joint US NATO exercise, this was done by SIGINT equipped helicopters flying a pre planned route inside and following the national border of the then GDR, and good SIGINT / ELINT results were obtained. This source confirms the use of Hungarian made radio equipment by the NVA. (See also the section on radio direction finding)

Part 4 next time.....

#### Now onto PoSW's Items in the Media:-

Lots of espionage related stories in the media connected to the situation in the Middle East and the so-called "War on terror" by which means the politicians in both the UK and the USA hope to curb everyone's freedom although I think the populations of both countries are just slowly waking up to the fact.

The rather strange story of the assortment of Royal Navy and Royal Marine personnel who managed to get themselves surrounded and captured by Iranian Revolutionary Guards provoked much comment and suggestions as to how the situation could be resolved. The usual assortment of Neanderthals and armchair experts turned up on the radio phone-in shows with demands that we should immediately give an ultimatum to Iran to release the hapless Brits and that if the Iranians did not comply we should go to war against them. There was some speculation that the servicemen - and one servicewoman - may have been deliberately put in harm's way by those far higher up the chain of command in order to provoke an incident to justify an attack on Iran - such is the distrust of the politicians of both the two main parties - rumoured to be already in an advanced stage of preperation. Hardly a day goes by on which there is not some item in the news along the lines that Iran is behind most if not all the current unrest in Iraq supplying the militants in that country with sophisticated explosive devices and all sorts of military technology. There are said to be two American battle groups in the Persian Gulf each consisting of one or more aircraft carriers with support and escort vessels with a third one on the way - probably arrived by now. Bliar and Bush know full well they will have to find some other reason than the "weapons of mass destruction" routine which got them into Iraq with such tragic consequences - for everyone except them. Perhaps the Iranians had the suspicion that they were being "set up", because despite parading their captives before the TV cameras and, so it was reported, confiscating one of the Matelot's iPods with all his Arctic Monkeys tracks on it, they released them in a reasonable condition each with a "goody bag", a new suit - although hardly Saville Row style - and they got to meet and shake hands with the Main Man in Teheran. If this was a put-up job by Bliar's mob intended to create an incident which would end up with the British people hating the Iranians and screaming for us to go to war with them, well, it didn't work. I think I know who won the public relations battle there.



Continuing on an Iranian theme;- from the *Daily Telegraph* of 9-March;- "Former Iranian Intelligence chief defects to West", says the headline above a short piece by Tim Butcher reporting from Jerusalem.

"An Iranian former spy chief is being debriefed by Western intelligence officials after defecting, it was claimed yesterday. Sources told *The Washington Post* that Ali Reza Azkari, 63, turned himself over to foreign spy agencies and was providing intelligence about Iran's close links with Hizbollah, the Shia militia from Lebanon. One of the sources said that Mossad, the Israeli foreign intelligence agency which has extensive contacts in Iran, co-ordinated his defection although there was no official confirmation. An unnamed Iranian government source dismissed Azkari as having been 'out of the loop' for a number of years and, as a result, of limited value. It was also suggested Mossad paid Azkari a large sum of money to defect.....He was the main Iranian point man in Lebanon in the 1980s and 1990s when the Islamic Republic helped found, fund and run Hizbollah and there can be few better sources on how the resistance movement receives weapons and support from Iran. International sanctions are meant to stop arms smuggling to Hizbollah in Lebanon but they have proved ineffective as shown by last summer's war with Israel. Hizbollah surprised experts with the vast number of rockets in its arsenal and the quality of other weapons, notably its anti-tank missiles which caused significant damage to Israel's tank units.

"Come on out with your hands up, Mr bin Laden we've got you surrounded" they wish! From the same issue of the *Telegraph* comes a story headlined, "CIA sends spies after bin Laden". The piece by Toby Harnden in Washington says, "The CIA is dispatching additional spies and paramilitary officers to Pakistan in attempt to force Osama bin Laden into making a mistake that could lead to his capture or death, according to American officials. Satellite photographs and details of communications intercepts were given to President Musharref of Pakistan last week by Stephen Kappes, deputy director of the CIA, as part of a strategy to persuade him to give US intelligence more assistance. Mr Kappes, a Middle East specialist who has served in Pakistan, travelled to Islamabad to brief Gen. Musharref along with Vice President Dick Cheney. His detailed presentation showed evidence of al-Qa'eda building its strength on Pakistani soil.....The decision to send such a senior intelligence officer to brief Musharref is an indication of the Bush administration's increasing concern about the borderlands between Pakistan and Afghanistan.....Intelligence officials have indicated that bin Laden has previously chosen March to switch locations, moving to hiding places in the mountains once the snow cover begins to melt. He is likely to be at his most vulnerable when on the move." Well, I didn't see any follow up to this story so I guess The Sheik is still alive and well and enjoying the healthy mountain air!

They're going to dig up Sir Mark Sykes;- Britain's involvement in Iraq dates from the First World War, and thanks to our beloved Prime Minister it looks as if our soldiers are going to be stuck there for years if not decades to come. Iraq was formed out of the Turkish Empire which fell apart as the result of Turkey's defeat in the First World War, see the film *Lawrence of Arabia* for further details. Large parts of Turkey's empire were divided into British and French spheres of influence in keeping with the terms of the Sykes-Picot agreement signed for their respective governments by, as Dryden the British Foreign Office man on the spot tells a horrified Lawrence in the film, "A Mr Sykes and a Monsieur Picot". Sir Mark Sykes actually, a bit of a toff by all accounts but he didn't survive the end of the War by many months. From the *Daily Express* of 1-March comes a story by Paul Jeeves headlined, "Baronet who died in 1919 may hold the key to halting spread of bird flu"....."A British aristocrat who died of Spanish Flu almost 90 years ago could hold the key to saving millions of lives. It is hoped the corpse of Sir Mark Sykes might help scientists unravel the mysteries of bird flu and prevent a pandemic. A Church court order has now been granted to exhume the body of the politician and diplomat who died in 1919. Researchers hope that, because wealthy Sir Mark was buried in a lead-lined coffin, a strain of the disease that killed him may have been preserved in his body.....The Spanish flu epidemic was caused by the avian virus H1N1 which is genetically similar to the current virus H5N1. Scientists hope that extracting a DNA sample from Sir Mark will help them develop drugs to tackle H5N1. The Spanish flu virus wiped out between 50 and 100 million people worldwide in just 18 months at the end of the First World War. Sir Mark was 39 when he died in a Paris hotel room while working for the British government at the Paris peace conference. He was co-author of the Sykes-Picot agreement, which dismantled the Ottoman empire and created modern Turkey. Many commentators at the time tipped him as a future Prime Minister. His body is buried at St Mary's Church at Sledmere, near Driffield, East Yorks.

"Better Off With Map And Nokia" - still no change. The Bowman communication system, a fairly useless piece of kit by all accounts, is still making the news in a negative sort of way. From the *Daily Mail* of 8-March comes a short item headed, "Calamity radio links UK troops" and says, "A battlefield radio used by British troops in Iraq and Afghanistan has come under withering fire from MPs. The Bowman digital radio system is supposed to link troops, vehicles, planes and ships in a powerful network. But the Public Accounts Committee today accuses the Ministry of Defence of blundering disastrously during the 25 years it took to develop. In that time, says the committee, the £2.5 billion system has been overtaken by the mobile phone and the portable version is heavier than the radio it replaced.....It also fails to communicate easily with allies which would reduce the chance of 'friendly fire' incidents. Defence Minister Lord Drayson insisted, however, that Bowman was 'world class', adding; 'Our forces in Iraq and Afghanistan are benefiting from it today'.

Still on the digital radio communication and Loadsamoney theme;- from the *Daily Telegraph* of 19-April, "Macquarie pays £1.9bn for police radio network, "Australia's Macquarie Bank has agreed to buy the digital radio network used by Britain's emergency services for £1.9bn. Airwave is being sold by Spain's Telefonica which acquired the business when it took control of mobile phone group O2 two years ago. The deal is being done through two of Macquarie's infrastructure funds.....They will each own half of Airwave. The company said; "Our funds have formally committed to this investment for a minimum of 10 years and intend to remain for the longer term. We are committed to ensuring the highest level of service and reliability. [Tnx PoSW]

Now onto the rest from a variety of sources.

No KW this time!

As the title suggests there is no KW; he has been sin binned by E2k for certain remarks last time. Well, it falls on PLondon this time and his trusty Psion 5MX to pick up the tab:

I'm not sure that I can be as vitriolic as our Ken who has indeed curried a decent niche following amongst our 'official area' readership [you know who you are].

Prominent in the newscasts is the poor treatment of our returning wounded servicemen who are placed in civilian hospitals for treatment. Many will have read of a young lad who was left to lie in his own excrement when his colostomy bag was not emptied. There was a case where a wounded soldier, wearing military uniform, was set about by a Muslim gentleman who took issue with the presence of this brave bloke in the same ward as his relative.

Last time Ken wrote about America [*This is why he has been binned*] in certain terms; well, it was his view. But to others who sit and read the media it is plainly obvious that whilst America has faults there are many things they do well; one of these is the aftercare of their servicemen [with the odd exceptions surprisingly and recently mentioned in the British Press]. Patriotism comes on many levels and one way of sure support is to give those who risk all in areas of conflict that the US has put troops into, rightly or wrongly, is to give respect and special support on their return. Not so; Mr Tony Blair who has never been seen at Brize Norton to pay respect to our returning dead and who is content to witter on about CO<sub>2</sub> emissions or approve the committing of billions of pounds to Trident [leased from America], which is probably never going to be used, whilst our troops go to various theatres without the proper equipment or support and if wounded can expect to be treated appallingly in NHS hospitals. Then we had 5 British Embassy staff kidnapped in the remote Afar region of Ethiopia.

The media immediately suggested 60+ SAS Troopers taking up the spoor and releasing these hapless embassy workers in a typical 'Boy's Own' operation. But that was not the case. Oh no, not at all! It was later reported that negotiations were carried out by Ethiopians to secure the release of the captive diplomats, one of whom was the First Secretary and whose name an E2k member reckons he had read on a certain list thought to be published by Richard Tomlinson, but we view that with some incredulity since we had that checked and couldn't substantiate that claim! So how much did we pay to these 'separatist rebels' to secure release or was it the media threat of Henno, Dinger and 58 other SAS troops going to Ethiopia or Eritrea and shooting the places up?

It's not great to be British anymore; blatant lies are called spin, our Government does nothing positive and immigrants of all persuasions come here and make demands on this country which are addressed over and above those reasonably made by those who already live here and who actually contribute to society in many ways. Hospitals have beds taken by those who have never contributed; when asked to pay for their treatment by administration they just leg it without doing so having left a false name and address. Does this sort of thing go on in the US - I don't think so!

The BBC news is full of carbon footprint nonsense and melting icebergs; no doubt to prepare us to be taxed on this nonsense in our rip off society. Taxes will not make a minute difference to this natural phenomena methinks [at least not whilst other nations push out the industrial exhaust as they do].

We now have the wish of HMG Education that our youngsters get to learn another language [*If you speak two languages you are bilingual, three you are trilingual but if you speak one language you are British*] from the age of seven. Yours truly remembers being taught French at twelve. French my rear end - the only thing good about that lesson was the teacher. The sport amongst us sons of Britain's Tommies who had defeated Messrs Hitler, Hirohito and Mussolini and who had created a land fit for heroes where the state had promised to support us from womb to tomb, was to discover what colour the delightful Miss Speller's suspenders were [garters to our American cousins]. As twelve year olds our inventiveness knew no bounds, dropping a pencil to pick up and sqint under the desk was mediocre, placing oneself in the stairwell and looking upwards was unweildy. The best ever was devised by Derek Matthews who brought in a German tank periscope [with Zeiss lens] which he used to do the rude deed. A decent use of the double prism and who really cared about the 'incident equalling the emergent or thye refractive index of Crown Glass?' Testosterone charged boys at play!! But, what use is this suggested language lesson to a seven year old? As I understand it they get bored for four years with this nonsense before they are given further subject choices.

My French lessons were given up to study Physics, eventually to A level, whilst the girls were offered either French or Domestic Science; Needlework was mandatory. [Nothing wrong with the housewife lad, fold it up and put it in your kitbag now]. Nowadays, with Britain's industry virtually gone; Automotive, Shipbuilding, Textiles, Fossil Fuels, Steel, light and heavy Engineering and Papermaking - notably many can be twinned with names of certain Union Convenors, Red Robbo, Scargill and Bill Morris spring immediately to mind - the suggestion that can be heard buzzing about is that we now only buy and sell money and the rest of us are in a massive service industry may not be totally unfounded. So what is a modern apprenticeship really for?

So, as you return home of an evening, knackered from your train trip and packed like sardines and then finish your bus journey where 16 year olds have free travel, take all seats and spit and urinate in the upper saloon, don't worry. As a working Briton you have the unenviable position of supporting all the lazy, unmotivated, deceptive social security claimants and terminally unemployed that this country promotes thanks to its lack of worthwhile jobs. After all, there are only so many footballers or celebrities needed, all the rest is pants.

George Galloway was in good form on the night of St Patrick's day on TalkSport Radio. In his usual tones he spoke with passion about Bliar's wish to buy Trident. It was, he said, "Puff the Magic Dragon and Goodnight Irene" and of no conceivable use to us as a deterrent. It is owned by America, maintained by America and controlled by America, yet we will pay billions for it. An interesting view GG. That lefty CND ban the bomb lot will need to get a new songwriter, methinks; "Bombs in the river, get them out it's time that we banned Polaris" is now outdated and obsolete, so where, Mnsgr Kent, do we go now?

Finally, we get to see Mr Bliar on BBCs never ending and most boring Comic Relief as they show sketch after sketch expecting to attract money to squander on Africa. [Why Africa all the time - there's plenty of other countries who really would benefit from such charity and not keep asking for more having achieved nothing with the millions squandered before....]. All it attracted in my house was the on/off switch. Lesser persons sat there watching Bliar and comedienne Catherine Tate as they went through their routine; my nextdoor neighbour commented that our PM acted the fool most professionally adding that he could be better employed in a travelling circus but observed he already stars in a static circus. [*KW might return in due course- if he keeps his nose clean. Apologies to those he offended*].

#### Military Cross won by 19 yo, DFC by USMC helo pilot

A 19yo female medical orderly, Pte Michelle Norris has received the Military Cross for helping her wounded commander under enemy fire. She and her commander were airlifted out by a Chinook flown by Major Willian Chesarek USMC who was awarded the Distinguished Flying Cross for his efforts helping troops that day. Well done both.

#### Poison Gas [Gas! Gas! Quick boys! An ecstasy of fumbling.....]

Before Iraqi forces were engaged for a second time and their homeland used for a testing ground for new weaponry the UN sent in a series of weapons inspectors to uncover the non-existent WMDs, those non-existent chemical, biological and nuclear weapons that Scott Ritter and Hans Blix wasted years trying to find. There were no al-Qaeda terrorists either. It is sad to learn that chlorine has been released from a car bomb in Iraq injuring many. At the same time we learnt that the judge who sentenced Saddam Hussein has presented himself and his family at his point of entry to Britain and claimed political asylum. There may have been no al-Qaeda or WMDs when the coalition invaded, but there certainly is now!

#### UK Internet a target

The Sunday Times 11th March page 5 had a column 'al-Qaeda plot to bring down UK Internet.' It would appear that Scotland Yard uncovered an al-Qaeda plot to attack a high security internet hub, apparently located in Docklands. The intelligence was recovered after a series of raids secured computer files that included photographs of the so-called Telehouse facility that, we were told, has every bit of Internet information leaving, or entering Britain.

#### EU Embassy

Embassy watchers can expect to see a new Embassy dedicated to the EU open in London. This Embassy, reckoned to cost a million quid [GBPounds] a year will be seen in Telford House, Tothill Street, London SW1 - between Victoria Street and Dean Farrar Street. Assuming this goes ahead Ek would be glad to receive details of any antennae mounted on the building and also the diplomatic vehicle registration marks.

#### MI5 gets new Director

Read somewhere that Dame Eliza Manningham-Buller is/has retired and her replacement is an al-Qaeda specialist. The person who takes over is her current [in March] number two, but by the time you get to read this short 49yo career spy Jonathon Evans will have taken the controls. He had been head of G section that looks after international terrorism and prior to that served as a senior officer in Northern Ireland.

#### Egypt charges nuclear spy - apparently.

Mohamed sayed Saber Ali has been charged with spying for Israel having removed documents from his workplace at Inshas, a small nuclear research facility.

In a Reuters newscast it is stated that he worked for Israeli intelligence but the story is lacking in detail. Thanks to Bob Meech and IW After putting this in the NL I then read the aforesaid naughty covert operative has been banged up in jail

#### Spies should be covert and remain as such when retired!

A spy who defected to the West is being debriefed at a NATO base in Germany after he and his family had escaped from Iran. The exfiltration, via Damascus, was organised by western intelligence agencies after the spy's cover was blown. VAVAK, Iran's secret service suspected Brigadier-General Ali Reza Asgari to be a high level mole. What is interesting is this spy has had his pic produced in newspapers, he has been named and some of what he has brought out with him described as 'documents disclosing Iran's links to terrorists in the Middle East.' There was no nuclear intel, apparently. As for whom this bloke was working hasn't been stated but Mossad has had a mention. So why all this info into the public domain? Could it be the bloke's been set up or is this a clumsy warning to suggest the game is up?

#### Iranian 'Spy', codenamed Mozart, meets ENIGMA 2000 representatives

MalcF and PLondon attended a Muslim hosted talk by Supt Ali Dizaei, the Met Police high flier who has recently published a book about his experiences as a suspect for a variety of 'crimes.' The book is entitled 'Not One of Us' and tells the story of Operation Helios where Mr Dizaei was placed under constant surveillance, including private side intercepts. Both PLondon and MalcF sat there as Mr Dizaei gave a brief insight into his problems. One thing he was accused of being was an agent of the Iranian Govt. Mr Dizaei is of Iranian extraction and well read and qualified; he is also very charismatic. His book mentions a number of senior police officers, including two Commissioners and three ACs, one of whom is now the Chief Constable of the British Transport Police all of whom PLondon had the pleasure of meeting, not that it did him any good! A good evening indeed and questions from the floor were taken. Imagine his surprise when one of the only three non-Muslims present, in the ample shape of PLondon, asks "You have stated that you were investigated by officers of Operation Helios but were also suspected of spying for the Iranian Govt. If that is the case then the general run of the mill Operation Helios officers would not be investigating the spying claim. That would be done by the Special Branch who would report directly to that lot in Thames House. The outcome, since you were exonerated of such activity would be a more than ample file held by MI5. How do you feel about that?" Well, I don't recall Mr Dizaei's reply but MalcF stated that he agreed with what I had stated and that he had to accept the file existed. His book, a good read for fifteen quid, will doubtless produce a profit and this profit will be donated to charity, Mr Dizaei says. An excellent evening with MalcF and PLondon leaving the venue at around 2115.

#### Getting old and in retirement

A 72 year old veteran who has seen action in Korea and Vietnam was recently handed a 12 month conditional discharge, a compensation order of £120 along with £60 court costs. The accused was a former sailor with USN who moved to Longwell Green, Bristol [UK] and lived with his wife. What this veteran did was to carry out a series of military style raids on a Sita waste depot near to his home to escape the boredom of old age. The veteran apparently removed copper pipe and took diesel, total worth £120 during eight raids, with five carried out on five consecutive days. The Magistrate told the veteran, "Thrill seeking is unacceptable in a 72 year old and we will no more accept it from a 72 year old.

*Well, good luck to the bloke; perhaps he could benefit from an introduction to the Numbers scene rather than seeking to break the boredom in other ways. Bet the bloke from Sita who shopped him for a few bits of metal and some diesel feels really big now.*

#### Zimbabwe Embassy Protest in London

Ten protestors were removed and arrested for trespassing on Diplomatic premises on 21<sup>st</sup> March 2007. The seven men and three women gained access to the building as wanting to renew passports and visas before they demanded to see the ambassador. They were members of the Movement for Democratic Change (MDC) and wanted to hand the ambassador a petition, signed by Zimbabweans living in Britain, calling for an end to the arrest and torture of opposition supporters.

For Mugabe's part he should be grateful that there is none of America's oil on his land because with his poor treatment of his citizens he would have been shaking hands with the Coalition aka The Bush and Blair Massive.

The situation in Zimbabwe is the same as seen before, Uganda and Guyana spring immediately to mind, where black despots have caused no end of problems and suffering to their nation and where their once Colonial masters have sat back and ignored the suffering. And who recalls Mr Ian Smith's UDI and the signing of some doc or other aboard HMS Blake?

#### The war against terror continues unabated.....

Four new regional Counter Terrorism Units have been opened in Greater Manchester with others expected in West Yorkshire, West Midlands and London. The CTUs will have around 350 staff and will work with MI5 and other Security Services gathering intelligence on suspects planning attacks in the UK and abroad. Thank heavens for this, I'm feeling safer already!

#### Zimbabwe jumps on the 'Britain is an easy target' bandwagon.

Here we go; Zimbabwe, formerly Rhodesia, has been reported as having issued a death threat against a female Diplomat stationed in the British Embassy in Harare. 'The Herald', a state-run newspaper, has printed the following lines about Gillian Dare, 'It will be a pity for her family to welcome her at Heathrow Airport in a body bag.' And what will Mr Blair's government do about this? Probably nothing except to give Mugabe a peerage.

#### Spying a new trend [From Scotland's Daily Record]

SUSPICIOUS Britons regularly spy on friends and lovers - with more than 50 per cent admitting to reading a partner's text messages without their knowledge, research published today reveals

The UK Undercover survey reveals 20 per cent of people would like to spy on their partner, while 53 per cent admit to reading a partner's text messages.

A third more women (57 per cent) spy than men (39 per cent), while one in 20 claim to have secretly recorded their partner.

Suspicious partners have even resorted to using webcams and GSM tracking devices.

The startling figures are featured at the Science of Spying exhibition in the Science Museum in London.

The research reveals that more than four out of 10 (42 per cent) have read their partner's emails.

Keeping up with the neighbours appears less important with only 16 per cent indulging in curtain twitching.

The Science of Spying exhibition is at the Science Museum, London, and runs until September 2007.

[http://www.dailyrecord.co.uk/news/tm\\_headline=spying-a-new-trend--&method=full&objectid=18849573&siteid=66633-name\\_page.html](http://www.dailyrecord.co.uk/news/tm_headline=spying-a-new-trend--&method=full&objectid=18849573&siteid=66633-name_page.html)

3 April 2007 from J6M tnx.

#### New Scotland Yard to issue warrants for KGB officers

In connection with the Polonium 210 contamination and death of Alexander Litvinenko in London last November New Scotland Yard is to issue arrest warrants for three former KGB officers.

These officers are Andrei Lugovoy, Dmitri Kovtun and Vyacheslav Sokolenko who deny poisoning the former spy.

President Vladimir Putin has criticised the UK for granting political asylum to the billionaire dissident Boris Berezovsky, who has called for his government to be overthrown and the issue of these warrants will increase tension between London and Moscow.

#### The Lives of Others or Der Leben der Anderen

For the last few weeks as I use the tube [Subway] I have been seeing an advert for a film where a bloke is wearing headphones. From his dress I assumed same geezer was a Nazi listening into some such plan that was, in Hollywood style, going to be overthrown. I don't really subscribe to the main Hollywood rubbish that appears in our cinemas. However, how wrong I was! Not Hollywood. At around 1430z 13/04/2007 I accepted a free newspaper, 'The London Paper' from the vendor who stands on the corner of Herbrand Street to catch those leaving Russell Square Station.

On reaching my bus stop in Southampton Row I started reading the newspapers' usual stuff, unaffordable housing, tube strikes [again], shipping disasters, pay rise for car workers and other good news and then turned the page to see 'Thelondonnightout' on page 14.



There I saw this same bloke, still wearing headphones [Christ! His ears must be sore after all this time] and the strapline 'Secrets and Spies.' Well, I had to read it!

Not a Nazi – totally wrong – right country, wrong era. The action, if you can call it that, takes place in post WW2 East Germany. The bloke with the cans is no Nazi, he works for the STASI and is named Wiesler. The character is played, apparently expertly, by Ulrich Muehe and is depicted as a Captain. Apparently Herr Wiesler is just one of more than 90000 state security officials in 1984 East Germany using 170000 informants to spy on an entire nation to keep the Communists in power. The watched couple are a playwright and an actress, with the playwright being considered loyal to the party whilst his girlfriend is sleeping with a sleazy government minister. It looks good – wonder if there will be number stations heard? Think we'll be going to see this at some stage.

<http://www.sonyclassics.com/thelivesofothers/>

Reflecting on the matter above I recalled the early advert for the Bearcat 210 scanner [one E2k member has one still] seen in Wireless World. IOT read, 'Listen to a Million Lives tonight.' It wasn't wrong, was it?

*[Never got to see it – blooming Vue cinema in Croydon didn't show – suppose the usual class of punter there just wants violence. Have to wait until DVD produced with subtitles. One is already out but you need to speak German – which I don't!]*

#### Magdeburg Annie

It is perhaps fitting that we mention this right after the piece above. As you are all aware we have been treated like mushrooms concerning the use of Number Stations like Magdeburg Annie and the whole host of others, discovered or yet to be discovered. The first to really blow the beans on the station was a Government minister who made some confusing remarks to the late BBC reporter, John Waters; then came Chief Supt Cole with his book about the GCHQ spy Geoffrey Prime. In the book was mention of the evidence against Mr Prime, one being a tape recording of number transmissions and witness statements from a neighbour who reported hearing some German *binta* chanting numbers in groups of five. The best was to come from the FBI concerning the spy Ana Belen Montes. Not only did they find computer equipment to decode number transmission but they also stated the frequency [7887kHz] and the log details of the transmission they found decoded [also message content]. A very important confirmation indeed. Then, I was sent an email from HJH that contained this obituary of the late spymaster, Marekus Wolf. Page two is particularly interesting.....

<http://www.telegraph.co.uk/news/main.jhtml?xml=/news/2006/11/10/db1001.xml&page=1>

Thanks HJH; you're a star!

#### The baseball cap

It's happening in the UK! The American baseball Cap is replacing the more familiar police helmet in North Wales Police with a baseballcap that states HEDDLU POLICE in favour of the more respectable comb design police helmet.

The uniform consists of heavy trousers - not combat style as mentioned elsewhere - utility would be a better description - along with the now accepted trappings of modern policing, CS Spray, Asp, Kwik-Cuffs and body armour. Apparently other Police Services will move towards this shabby style. Personally, I favoured the tunic and helmet. The tunic was good for tucking your thumbs in whilst you patrolled the streets in \*smart\* order and you could also display your medal ribbons which used to rub up certain members of society the wrong way and hasten their removal from the streets.

The helmet used by the Met is a different style to those used by other police services and features the entwined peace rose [white and red rose entwined] and like the other helmets the peaks are designed to drip the rain away from eyes and nape of neck....."and it may harm your defence if you do not mention something you later wish to lie about in Court.."

#### Degree in Spying

The common cry amongst the working man suggests that a majority of managerial positions go those with a degree; no more working your way up the promotional ladder by nature of recognition for hard work. Indeed I recall at least one appraisal where the humble PLondon pointed out that the promotion that had been intimated was his had gone to a young graduate with a 2.2; strong in paper but sadly lacking in practical and man management skills. Needless to say there was confrontation on a daily basis and the graduate did not benefit from any support of departmental colleagues nor did he enjoy crossing verbal swords with yours truly or KW.

The recruitment of the secret service *per se* has always attracted the graduate; David Shayler and Annie Machon both had good passes as do the others that still work in the world of secrecy. A few years ago the British media carried a number of articles [and reported via E2k NLs at the time] that recruitment was slackening down a bit to allow the common person a chance to excel in the world of Intel.

Whether any young *Council Estate Kursanty* ever made it through the doors of a profession reserved for those usually recommended via Academia is unknown but now a further hurdle has been placed in the path of the working bloke who aspires to do better for himself. The Cabinet Office has set up a course at King's College London to teach analysis to new and mid-career members of the civilian and military agencies. Much like the RAE it runs for one night a week [10 weeks] with a dissertation required to gain the qualification. During the sessions the course examines the range of activities; gathering of intel, its subsequent analysis and the effect of reliability and source accuracy. The course, presided over by none other than Sir David Omand a former director of GCHQ, ends with consideration of WMDs in Iraq and the bogus reports offered by a Iraqi source 'Curveball' and *apparently* used by MI6 and the CIA in a session entitled, 'How does the analyst remain neutral?' How indeed? I'd love to see a copy of the teaching script for that. Whilst we are on the periphery of degrees and such like did you know that the now renamed MPSB, Metropolitan Police Special Branch has more degree qualified officers than any other specialist unit? Lots of DC's and DS' who missed the rapid promotional ladder for this speciality. Did you also know that MI5 will not communicate directly with any SB officer below the rank of DI [Detective Inspector]?

Then I receive a very interesting communication from an anonymous member who sent me details of a Electronic Warfare course sponsored by 'Abacus EW Consultancy Ltd.' Details of this exciting course, and others, can be found here: <http://www.abacusewc.com/>

The company is 'CESG Listed' too! We believe the course would be offered at Portsmouth Uni.

The modules in this interesting course will encompass Advanced COMINT & ELINT Theory, Advanced Technical ELINT, Advanced Technical ELINT Analysis, Advanced Technical Signals Analysis, REWDB & Intelligence, EW Force Protection, Joint Operations & JEWOC and EW Doctrine & SOJEWOC. Certainly a course worth doing and not open to the ordinary bloke in the street.

As we finish we return to the betterment of the working bloke. Think for a second about Geoff Prime and his offence of Spying. The man was no fool but he was scuppered by 'the system.' Although he went to Uni to study Russian he felt insecure and unaccepted by his peers, public school and grammar produce, he doubtless suffered an inferiority complex as he worked [and failed] in his course. His later life, apparently did not live up to what he had hoped for, and he continued to spy against the very system employed to protect us. Doubtless the man in the street without the degree feels the same because without proper government, naff laws and policing, poor punishments at court and rip-off taxes in a land with no real industries the shite is going to seriously hit the fan someday soon.....[Bitter? Yes, I am].

## HJH's E2K WATCH

### OIL BE SEEING YOU!

Pardon the dreadful pun, but casting about through the various tit bits of chatter that crop up on the old night time VDU of yours truly; one would be forgiven for thinking that oil has now replaced money as the root of all evil. (Or should that be "oil" evil!!)

Enough, I hear you cry. Everyone seems to be looking for it, and everyone seems prepared to go to great lengths to either get or keep it. The Chinese appear to be top of the heap at finding and courting the prospective oil producing nations, and the respective heads of states of those aforementioned nations. Having become so well ensconced in the Rhodesia/Zimbabwe of Robert Mugabe, hot on the heels of the prospects of oil in that thar jungle they are currently courting the newly elected President Hugo Chavez of Venezuela. Greatly encouraged, no doubt, by the fact that said Senor Chavez is a Socialist of impeccable credentials, who has already indulged in the ever popular sport of septic-bashing, so much so that Caracas has announced that it is working on a number of agreements with China to export more oil to that nation. The stated aim is to avoid having to depend on exporting to the United States. Why anyone should give a plugged Euro as to who they sell to so long as said punter comes up with the long green folding stuff as promised, is beyond this poor mortal. China National Petroleum Corp or CNPC. (Has a good solid socialist ring to it, doesn't it!!) in cooperation with Venezuela, will build 3 oil refineries in mainland China, and a super fleet of crude oil tankers. (THAT should reassure the environmentalists amongst us!!!) to ferry the crude oil that they will shortly start to drill from the Orinoco Belt. Here, a quote from Senor Chavez "The United States is a power on the way down, China is on the way up. China is the market of the future." He is said to have made this pronouncement following a meeting with the Chinese President, Jiang Jiemín. Venezuela is said to be the fifth largest exporter of oil to the USA. Informed analysis estimates the oil production of Venezuela at 2.7 million barrels per day. China, with its economy now really taking off, has become the second largest consumer of oil in the world, next to the USA. One wonders where it all goes. How can a nation which is so ideologically opposed to the USA, so closely follow them in oil consumption? Are the life styles so similar? One would think not! It is the stated ambition of Chavez to be exporting one million barrels per day to China by the year 2012. He is currently finalising plans to nationalise the oil industry of Venezuela. This will cripple companies such as Exxon Mobil Corp, ConocoPhillips, and Chevron Corp. More potential customers of Chavez are Russia and Iran, forming what he describes as a "multiple alliance against the USA. Another visit to Venezuela by Changchun, a member of the all powerful Chinese Communist Party's Politburo, is scheduled shortly. Kinda gives a whole new meaning to the phrase "Chinese Take Away," doesn't it!!! Suez revisited anyone?

### EUROFIGHTER UPGRADE

Hot on the heels of the above little titbit, comes the news that the Euro fighter is to receive an upgrade to allow it to carry out one of its most likely roles, should

the brown stuff hit the fan, namely that of air to ground attack. This reassuring (for the infantry, certainly!!!) piece of news came from that font of hope and wisdom, the UK Ministry of Defence

You know the guys, the ones who gave you the collapsible SA80 (saves cleaning it and getting charged with war crimes in the unlikely event you should hit any one when you fire it!!!) not to mention the radios that don't work, and making sure that "Ruperts" who have as much chance of seeing danger as Bliar has of seeing a fan club formed to adore him, get first pick of body armour to the detriment of "other ranks" who can happily get shivved by "expletives deleted." Scheduled to enter service later this year, the Euro fighter will, on entry into service, only be capable of air to air combat, at which, its makers and the MoD tell us, it is superb. (Air superiority all around then, chaps!) Given the number of air support type missions which the RAF has had, of late, to perform, this would seem as useful as a speedometer on a council worker. MoD says that for the beggarly sum of £830,000,000. this lack of ground attack capability can be remedied. Deafening sighs of relief from the collective governments of Britain, Germany, Spain, and Italy, all of whom are signed up to this fiasco (OOOPS, another typo, I meant deal!!!) Having taken 22 years to develop, one would have thought that this would have been sorted long since. The UK buy is estimated at 232 aircraft, total cost £20 billion. Given that the RAF plans to form 7 squadrons of said aircraft, this would mean 140 odd becoming operational, leaving 90 plus to be mothballed. And the name of this silver dream machine for which the legendary Biggles (they don't make 'em like that any more!!) would have given his genitalia? Typhoon, and I bet lots of you know, (certainly those nearly as decrepit as this old pen pusher!) that Typhoon was the very name of the Hawker Typhoon which was THE ground attack aircraft par excellence, which contributed so much to the success of the Normandy landings, and the entire war in Europe. Aint that a hole in the boat!!! Who said British Civil Servants have no sense of humour!!!

### JAMMING WITH A CHINESE FIREDRAGON.

No, it is not a catchy new pop music programme on FM, but a very noisy and annoying Chinese music programme on AM (HF). It is operating in more than one Amateur Radio band, and is causing some distress and annoyance to the said radio hams. So much so, that no less a body than the International Amateur Radio Union, (IARU) has intervened to ask the target of this jammer to move frequencies. So, who is the jammer, and who is the jammees? (Your scribe is not quite certain if this is correct and good English, but Number One daughter likes it, so it stays!)

Enter "The Sound of Hope," a clandestine transmitter operating from Taiwan, and sending out programmes promoting the cause of Taiwan, all of which are beamed at the target audience on the mainland of the People's Republic of China. (PRC) This is a clandestine transmitter of long standing. Now, apparently, the PRC authorities never noted for their tolerance and democratic tendencies. (Remember the Tiananmen Square Tank Tennis contest?) Well, those good ole' boys in the PRC government ordered up the jammers. (And we don't mean a music session!) First monitored on 14.260 MHz, the jammer is reported as operating 24/7 by various monitors. It has also been monitored on 14.050 MHz, which is solely allocated to radio amateurs on a world wide basis. Cue the Telecommunications Authorities of the Federal Republic of Germany. Monitoring the transmissions, direction finding stations have radio located this transmitter as being on Hainan Island in the Hainan Sheng Province of People's Republic of China. (PRC) This island is also home to an Over the Horizon (OTH) radar station, as readers may recall. Unlike normal radar, which works in the Giga Hertz frequency range, (That's thousands of megahertz. One Giga Hertz equals 1,000 Mega Hertz.) this type operates in the High Frequency, or Short Wave Band. (1.7 to 30 Mega Hertz.) Thus, this can bounce off the ionosphere as do all other types of HF radio signals and bounce around the world, limited only by the power of the signal which it puts out. The receiver sensitivity and antenna system will also play a part in the reception, naturally.) This ability to see "over the horizon" is obviously a great advantage to anyone who wishes to defend against sneak air (or surface) attacks. The Chinese radar station has been heard operating in the 75metre band. Raytheon Corporation of USA has built a unit of this type, (OTH) which can detect and track targets out to 2,500 nautical miles. Obviously, as areas of Radio Frequency activity go, Hainan is a hot one!

Ironically, one of the complainants, the FCC of the USA, (Federal Communications Commission) has said it can do nothing more effective than make diplomatic representation to the PRC to stop its jamming activities. This is due to the fact that the offending transmitter is located OUTSIDE the USA. Uli Biehlmeier, of the IARU has contacted the telecoms. authorities of Germany and Hong Kong, as well as the PRC Embassy in Berlin. Jamming on 18.160 MHz has ceased, but the dragon's tale has been heard on 17.330, and 7.130 MHz. Also affected has been the telephone frequency in the 20 metre band. Countries in which this jammer has been monitored include; USA, Britain, New Zealand, India, and Germany.

International support for the "Sound of Hope" radio station seems to be divided and weak at best, ineffectual at worst. On the one hand, protests have been sent to the PRC Government asking it to cease jamming, and others have asked the Taiwan station to change frequency to a "legitimate" one, in an effort to obtain "international support." Wonder what exactly THAT will consist of, if it ever appears! No one seems too perturbed by the Chinese "advisers" who were currently in Rhodesia/Zimbabwe helping to jam any of the London based (sent and supported by Rhodesian/Zimbabweans, it must be stressed) broadcasts which oppose the dictatorial government of Mugabe. Wonder why that is? Another thought has just entered the mind of

your scribe, (plenty of room at any rate!!!) and that is, what would have happened had the same complaints been made regarding the now historic and famous, "And now some messages for our friends in France---!" of recent history. Would we have been asked to stop sending them to make all those naughty GESTAPO jamming men go away, and stop bothering the other users of the airwaves? Would we have listened? More chance of clearing Beecher's Brook on a pogo stick, then!!! Now, under this gutless shower of terminal no-hopers, one is not so sure. Still, look on the bright side, you radio hams. Send off for your "Sound of Hope" and "Jammin' Dragon!" QSL cards now! They will look GREAT on the wall of your shack! HJH.

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.eyespymag.com/>

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

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

[http://www.theregister.co.uk/2007/02/05/army\\_tech\\_obsolete/](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.

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**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

M	1	8	15	22	29	*
T	2	9	16	23	30	*
W	3	10	17	24	31	*
T	4	11	18	25	*	*
F	5	12	19	26	*	*
S	6	13	20	27	*	*
S	7	14	21	28	*	*

### FEBRUARY

M	*	5	12	19	26	*
T	*	6	13	20	27	*
W	*	7	14	21	28	*
T	1	8	15	22	*	*
F	2	9	16	23	*	*
S	3	10	17	24	*	*
S	4	11	18	25	*	*

### MARCH

M	*	5	12	19	26	*
T	*	6	13	20	27	*
W	*	7	14	21	28	*
T	1	8	15	22	29	*
F	2	9	16	23	30	*
S	3	10	17	24	31	*
S	4	11	18	25	*	*

### APRIL

M	*	2	9	16	23	30
T	*	3	10	17	24	*
W	*	4	11	18	25	*
T	*	5	12	19	26	*
F	*	6	13	20	27	*
S	*	7	14	21	28	*
S	1	8	15	22	29	*

### MAY

M	*	7	14	21	28	*
T	1	8	15	22	29	*
W	2	9	16	23	30	*
T	3	10	17	24	31	*
F	4	11	18	25	*	*
S	5	12	19	26	*	*
S	6	13	20	27	*	*

### JUNE

M	*	4	11	18	25	*
T	*	5	12	19	26	*
W	*	6	13	20	27	*
T	*	7	14	21	28	*
F	1	8	15	22	29	*
S	2	9	16	23	30	*
S	3	10	17	24	*	*

### JULY

M	*	2	9	16	23	30
T	*	3	10	17	24	31
W	*	4	11	18	25	*
T	*	5	12	19	26	*
F	*	6	13	20	27	*
S	*	7	14	21	28	*
S	1	8	15	22	29	*

### AUGUST

M	*	6	13	20	27	*
T	*	7	14	21	28	*
W	1	8	15	22	29	*
T	2	9	16	23	30	*
F	3	10	17	24	31	*
S	4	11	18	25	*	*
S	5	12	19	26	*	*

### SEPTEMBER

M	*	3	10	17	24	*
T	*	4	11	18	25	*
W	*	5	12	19	26	*
T	*	6	13	20	27	*
F	*	7	14	21	28	*
S	1	8	15	22	29	*
S	2	9	16	23	30	*

### OCTOBER

M	1	8	15	22	29	*
T	2	9	16	23	30	*
W	3	10	17	24	31	*
T	4	11	18	25	*	*
F	5	12	19	26	*	*
S	6	13	20	27	*	*
S	7	14	21	28	*	*

### NOVEMBER

M	*	5	12	19	26	*
T	*	6	13	20	27	*
W	*	7	14	21	28	*
T	1	8	15	22	29	*
F	2	9	16	23	30	*
S	3	10	17	24	*	*
S	4	11	18	25	*	*

### DECEMBER

M	*	3	10	17	24	31
T	*	4	11	18	25	*
W	*	5	12	19	26	*
T	*	6	13	20	27	*
F	*	7	14	21	28	*
S	1	8	15	22	29	*
S	2	9	16	23	30	*

## European Number Systems

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

<sup>^</sup> 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 <sup>^</sup>	Jeden <sup>^</sup>
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
- <sup>^</sup> 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

[Txn 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. Mon of the month, Tue repeat only in case of msg on Mon, sked since 02/02, freqs since 01/05
				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. Mon of the month, Tue repeat only in case of msg on Mon, sked since 02/02, freqs since 01/05
					x		2200	1a	G06	4441 <b>4441</b>	6834 4441	5252		4642		7607						531 843 <b>843</b>	2005 1.-3. Sat 2006 of the month? <b>2007</b>

*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	04/07	
	x						0730	3	M03	4840		4870			5082			4870		4840		041	04/07	
		x					0730	3	M03	8088		6941			6797			6941		8088		508	01/07	
				x			0730	3	M03	4909		6814			6252			6814		4909		040	04/07	
	x						0745	3	M03	11486		10728			10246			10728		11486		503	04/07	
			*				0800	3	E11						7663							232	08/06 inactive	since 03/04, former fqs: 10050, 10125
				x			0800	3	M03	4909		4958			6814			4958		4909		041	03/07	
				*			0800	3	E11						8091							232	01/06 inactive	since 04/04, former fqs: 11116, 11260
					x		0800	3	M03	7377		8187			9339			8187		7377		624	03/07	
	*						0815	3	M03	4968		5082			6814			5082		4968		211	09/06 inactive	
			x				0845	3	M03	12660		12397			12202			12397		12660		503	04/07	since 02/06
x		x					0845	3	M03	12153	12153	12153	12153							12153	12153	252	04/07	new sked! since 11/06
			x	x			0845	3	E11	8800		9576						9576		8800		232	04/07	since 09/06
x							0900	3	M03	10210		7772			7439			7772		10210		976	03/07	
		x					0900	3	S11A	9610		7377			6524			7377		9610		215	03/07	Until 02/06 M03 w/ 214
x	x	x	x	x	x	x	0915	3	E11	7317		8196			9576			8196		7317		284	03/07	Until 06/06 M03
		*					0945	3	M03	5358		5815			6252			5815		5358		211	09/06 inactive	
			x				1000	3	M03	10384		8760			7984			8760		10384		976	04/07	
	x			x			1030	3	E11	7749		8759			9610			8759		7749		312	03/07	since 05/02 heard in 07/06 as M03
			x				1030	3	S11A	9950		7984			7377			7984		9950		214	03/07	since 03/06 09/05-01/06 M03 sked Repeat of 0900Z?
		x					1100	3	E11	9339		9610			9901			9610		9339		186	04/07	since 06/05
				x			1100	3	M03	9443		7984			8759			7984		9443		508	03/07	
				*			1200	3	E11	8544		9130			10125			9130		8544		187	08/06 inactive	since 08/04
	x			x			1230	3	E11	7439		8544			9448			8544		7439		312	03/07	since 07/01
	*						1300	3	E11	8088		8800			9950			8800		8088		183	08/06 inactive	former fq: 8033; until 10/02 Thu too
			*	*			1330	3	E11						9179							182	08/06 inactive	since 08/05
x	x	x	x	x	x	x	1630	3	E11	4181		6252			7377			6252		4181		287	03/07	heard in 07/06 at 1730Z on 7737, until 08/06 M03
		x					2100	3	S11A		4016				5358				4016			971	04/07	since 06/03 until 04/03 972

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	5782 31.1.07 121/21	5779 1.2.07 121/21													The Crazy World of Agent 121
x							1830	3	M03			4009			4783									
x	x		x			x													4505 4.9.06 121/19					
x							1910	3	E11															
			x	x					M03					4909	4909									
				x																				
				x			1920	3	M03					4073										
														4909										
	x						1930	3	M03	4840 23.1.07 121/20														
		x												4009										
			x											4073										
			x	x			1940	3	M03					5176	5176									
				x					M03			5176												
				x			2000	3	E11									4505 1.9.06 121/29						
		x					2025	3	E11								4114 121/15							
	x				x				M03			4356												
	x						2030	3	E11	4840 7.2.06 121/25														
			x							4840 9.2.06 121/25														
				x						5082 10.2.06 121/25														
	x									5082 7.2.06 121/26														
		x								5082 8.2.06 121/27														
			x				2100	3	E11	5028 9.2.06 121/27														
				x						4840 10.2.06 121/25														

*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.                      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	6325	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	moves 1 hr early May to October
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	10950	12110	167	
thu	09.10	10580	12310	13790	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	1 hr later in Oct
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	

**S06 and E06 both ending fast. Regular skeds.**

Day	time (utc)	2007 february	2007 march	2007 april	2007 may	ID feb	ID mar	ID april	ID may	week
mon	08.30	xxxxx	xxxxx	9225	search	xxx	xxx	480	?	every
mon	09.30	9225	9225	xxxxx	xxxxx	480	480	xxx	xxx	
mon	12.00	xxxxx	xxxxx	8130	search	xxx	xxx	480	?	every
mon E06	20.00	not heard	7920	9 mhz?	?		463	?	?	1 & 3
mon E06	21.00	not heard	?	7635	?			?	?	1 & 3
mon	20.15	xxxxx	xxxxx	8150	11070	xxx	xxx	825	130	2 & 4
mon	21.15	6780	6965	6920	9240	702	491	825	130	2 & 4
mon	22.15	5190	5358	xxxxx	xxxxx	702	491	xxx	xxx	2 & 4
tue E06	13.00			11120 ?	11100			147	560	1st
tue E06	14.00			9130	9MHz			147	?	1st
tue	14.00	11420	14390	14730	15840	493	493	493	493	every
tue E06	14.10	not heard				705	705	705	705	4th
tue	15.00	9260	12200	12190	13880	493	493	493	493	every
tue	16.30	6910	9070	10830	13540	497	126	036	253	every
tue	17.30	5380	6960	8180	11490	497	126	036	253	every
tue	18.00	5740				918	918	918	918	1 & 2
tue E06	20.00	6840	search	8170	search	190		604	?	2 & 4
tue E06	21.00	5360	search	6875	search	190		604	?	2 & 4
wed	08.30	xxxxx	xxxxx	9225	search	xxx	xxx	480	?	every
wed	09.30	9225	9225	xxxxx	xxxxx	480	480	xxx	xxx	every
wed	12.00	xxxxx	xxxxx	8130	search	xxx	xxx	480	?	every
wed	13.00	8130	8130	xxxxx	xxxxx	480	480	xxx	xxx	every
wed E06	14.00	xxxxx	xxxxx	10270	search	xxx	xxx	245	?	2 & 4
wed E06	14.05	9070	11430	12190	12220	457	457	457	457	1st
wed E06	15.00	9220	?	8080	search	604	?	245	?	2 & 4
wed E06	15.05	7890	9212	10560	10880	457	457	457	457	1st
wed E06	16.00	7710	?	xxxxx	xxxxx	604	?	xxx	xxx	2 & 4
wed	18.00	3595	5735 ?	5735 ?	<i>Not found</i>	269	269	269	?	every
wed E06	19.15	5 mhz ?	5 mhz?	6795	search	203	659	842	?	3rd
wed E06	20.15	4035	4445	5125	search	203	659	842	?	3rd
thu E06	05.00								529?	every
thu E06	06.00		13420 ?		14890?		345 ?	345?	529?	every
thu E06	20.30		5186	5186	?	321	891	891	?	1 & 3
thu E06	21.00	5780	6780	7630	9210	647	502	193	704	4th
thu E06	22.00	4630	5 mhz?	5430	7770	647	502	193	704	4th
fri	14.45					102	102	102	?	1
fri E06	21.30	4760	5197	5197	5731	472	634	634	315	1 & 3
sat	16.00		5463/6788?	6783	6794	754	754	754	108	?
sat E06	17.00			9120				798		3
sat E06	18.00			7920				798		3
sun E06	18.30	5380	6860	8020	10190	690	690	690	690	every
sun E06	19.30	4465	5405	6970	8180?	690	690	690	690	every
updated	24th	April								

**Current Cuban Skeds Heard From 0000-0700 UTC**  
**This covers 1900-0200 local EDT in the USA**  
**(March-April 2007)**

SUN	0000	0100	0200	0300	0400	0500	0600	0700
								9062(P)
					10235(P)	9062(S)	6826(P)	6786(S)
MON	0000	0100	0200	0300	0400	0500	0600	0700
				4174(P)	4035(S)	10446(P)	9331(S)	5883(P)
				6855(P)	6768(S)			
			12165(P)	10446(S)				
						5898(P)	5800(S )	
TUE	0000	0100	0200	0300	0400	0500	0600	0700
		3389(P)	3292(S)	4017(P)	3926(S)			5883(P)
						11565()	6826(P)	6786(S)
				10125(P)	11566(S)	9062(P)	7887(S)	
WED	0000	0100	0200	0300	0400	0500	0600	0700
			12180(P)	10446(S)				
								9153(P)
				12215(P)	13378(S)	9062()		
THUR	0000	0100	0200	0300	0400	0500	0600	0700
					9323( )	8097( )		5883(P)
							6826(P)	6786(S)
						5898(P)	5800(S )	
FRI	0000	0100	0200	0300	0400	0500	0600	0700
		4028(P)	5417(S)		4479(P)	4028(S)	4028( )	
			12215(P)					
				12215(P)	13378(S)	13378()		9153(P)
SAT	0000	0100	0200	0300	0400	0500	0600	0700
		6768(P)	5762(S)	4028(P)	3292(S)	3025()		
		5135(P)	4028(S)		5762(P)	5883(S)		
				10127()	11565()	9063(P)	7887(S)	
	0000	0100	0200	0300	0400	0500	0600	0700
						5898(P)	5800(S)	

**Current Cuban Skeds Heard From 0800-1500 UTC**  
**This covers 0300-1000 local EDT in the USA**  
**(March-April 2007)**

<b>SUN</b>	<b>0800</b>	<b>0900</b>	<b>1000</b>	<b>1100</b>	<b>1200</b>	<b>1300</b>	<b>1400</b>	<b>1500</b>
		9040(P)	9240(S)					7887(P)
		8136( )	10445( )					5772(P)
		5759(P)	5800(S)					4034(P)
<b>MON</b>	<b>0800</b>	<b>0900</b>	<b>1000</b>	<b>1100</b>	<b>1200</b>	<b>1300</b>	<b>1400</b>	<b>1500</b>
	5898(S)	9040(P)	9240(S)	3292(P)	4035(S)			
								5772(P)
		6786(P)	7726(S)					
	8186(P)	9063(S)				7519(P)	6867(S)	4034(P)
<b>TUE</b>	<b>0800</b>	<b>0900</b>	<b>1000</b>	<b>1100</b>	<b>1200</b>	<b>1300</b>	<b>1400</b>	<b>1500</b>
	5898(S)	9040(P)	9240(S)					
								5772(P)
			9323(P)	10345(S)		5116(P)	5134(S)	
		5759(P)	5800(S)				7579( )	4034(P)
<b>WED</b>	<b>0800</b>	<b>0900</b>	<b>1000</b>	<b>1100</b>	<b>1200</b>	<b>1300</b>	<b>1400</b>	<b>1500</b>
	7555(S)	9040(P)	9240(S)	3360(P)	4035(S)			
								5772(P)
	9063(S)	6786(P)	7726(S)					
<b>THUR</b>	<b>0800</b>	<b>0900</b>	<b>1000</b>	<b>1100</b>	<b>1200</b>	<b>1300</b>	<b>1400</b>	<b>1500</b>
	5898(S)	9040(P)	9240(S)					
								5772(P)
			9237(P)	10446(S)		5761(P)	5883(S)	
		5759(P)	5800(S)			5134(P)	5799(S)	4034(P)
<b>FRI</b>	<b>0800</b>	<b>0900</b>	<b>1000</b>	<b>1100</b>	<b>1200</b>	<b>1300</b>	<b>1400</b>	<b>1500</b>
		9040(P)	9240(S)	3245(P)	4035(S)	9152(P)	10126(S)	
								5772(P)
	9063(S)	6786(P)	7726(S)			5134(P)	5417(S)	4034(P)
<b>SAT</b>	<b>0800</b>	<b>0900</b>	<b>1000</b>	<b>1100</b>	<b>1200</b>	<b>1300</b>	<b>1400</b>	<b>1500</b>
		9040(P)	9240(S)					
			4035(P)	4507(S)				5772(P)
			9323(P)	10344(S)				
<b>SAT</b>	8186(P)	9063(S)	3025(P)	4478(S)				
		6786(P)	7726(S)	8136(P)	9152(S)			4034(P)



**Current Cuban Skeds Heard From 1600-2300 UTC**  
**This covers 1100-1800 local EDT in the USA**  
**(March-April 2007)**

<b>SUN</b>	<b>1600</b>	<b>1700</b>	<b>1800</b>	<b>1900</b>	<b>2000</b>	<b>2100</b>	<b>2200</b>	<b>2300</b>
	<i>17478(P)</i>	<i>17436(S)</i>			<i>7887(P)</i>	<i>6855(S)</i>		
	<i>6867(S)</i>							
	4506(S)		8097(P)	8097(S)		7974(P)	7481(S)	
<b>MON</b>	<b>1600</b>	<b>1700</b>	<b>1800</b>	<b>1900</b>	<b>2000</b>	<b>2100</b>	<b>2200</b>	<b>2300</b>
	<i>17478(P)</i>	<i>17436(S)</i>			<i>7887(P)</i>	<i>6855(S)</i>		
	<i>6867(S)</i>							
				6786(P)	7554(S)			
				7680(P)	8009(S)		7519(P)	8009(S)
<b>TUE</b>	<b>1600</b>	<b>1700</b>	<b>1800</b>	<b>1900</b>	<b>2000</b>	<b>2100</b>	<b>2200</b>	<b>2300</b>
	<i>17478(P)</i>	<i>17436(S)</i>			<i>7887(P)</i>	<i>6855(S)</i>		
	<i>6867(S)</i>							
				6786(P)	7554(S)		7526(P)	8135(S)
	4506(S)		8097(P)	8097(S)		7974(P)	7481(S)	
<b>WED</b>	<b>1600</b>	<b>1700</b>	<b>1800</b>	<b>1900</b>	<b>2000</b>	<b>2100</b>	<b>2200</b>	<b>2300</b>
	<i>17478(P)</i>	<i>17436(S)</i>			<i>7887(P)</i>	<i>6855(S)</i>		
	<i>6855(S)</i>							
				6786(P)	7554(S)			
				7680(P)	8009(S)		7519(P)	8009(S)
<b>THUR</b>	<b>1600</b>	<b>1700</b>	<b>1800</b>	<b>1900</b>	<b>2000</b>	<b>2100</b>	<b>2200</b>	<b>2300</b>
	<i>17478(P)</i>	<i>17436(S)</i>			<i>7887(P)</i>	<i>6855(S)</i>		
	<i>6867(S)</i>							
				6786(P)	7554(S)		8009(P)	8135(S)
	4506(S)		8097(P)	8097(S)		6932(P)	6854(S)	
<b>FRI</b>	<b>1600</b>	<b>1700</b>	<b>1800</b>	<b>1900</b>	<b>2000</b>	<b>2100</b>	<b>2200</b>	<b>2300</b>
	<i>17478(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>		6786(P)	7554(S)			
				7680(P)	8009(S)		7519(P)	8135(S)
<b>SAT</b>	<b>1600</b>	<b>1700</b>	<b>1800</b>	<b>1900</b>	<b>2000</b>	<b>2100</b>	<b>2200</b>	<b>2300</b>
	<i>17478(P)</i>	<i>17436(S)</i>			<i>7887(P)</i>	<i>6855(S)</i>		
	<i>6867(S)</i>							
	4506(S)		8097(P)	8097(S)		7974(P)	7481(S)	

**Notes:**

Skeds in MCW mode indicated in shaded cell.

V2a skeds are indicated in italic fonts.

M8a skeds are indicated in normal fonts.

The primary or first sked is indicated with (P).

The secondary, second or repeat sked is indicated with (S).

All skeds normally begin on the hour.

Frequencies listed as ( ), denote primary or secondary sked not determined.

Frequencies listed without ( ), denotes a possible sked.

SK01 has been heard in lieu of M8a at 0600/0700 and 0700/0800 on Tuesdays.

--Updated February 26, 2006--

Please send any additions, deletions or corrections to:

[m8laten@prodigy.net](mailto:m8laten@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: Jon-FL, JPL, MS, Red October, West1us

[Thanks folks]!

Master list of possible BC English Language transmissions from a variety of countries [SUMMER]

	<u>CUBA</u>	<u>CZECH</u>	<u>EGYPT</u>	<u>INDIA</u>	<u>RUSSIA</u>
<b>0000</b>		7345 9940	11885	9705 9950 11620 11645 13605	
<b>0100</b>	6000 9820	6200 7345			7250 9665 15545 17660
<b>0200</b>	6000 9820		7260		
<b>0300</b>	6000 9820	7345 9870 9445 11600	7260	4970 4990 5050 7150	9665 9860 9880 15545
<b>0400</b>	6000 9820				9665 15445 15545
<b>0500</b>	6000 6060 9550 11760				
<b>0600</b>	6000 6060 9550 11760				
<b>0700</b>	6000 6060 9550 11760	9880 11600			17495 17635 21790
<b>0800</b>					17495 17635 21790
<b>0900</b>		21745			
<b>1000</b>		9880 11615			
<b>1100</b>					
<b>1200</b>			17385		
<b>1300</b>		13580 21745	17385	9690 11620 13710	
<b>1400</b>				9690 11620 13710	
<b>1500</b>					4965 4975 7325 9660 11985
<b>1600</b>		5930 17485	11880		
<b>1700</b>		5930 17485	11880	7410 9445 9950 11620 11935 13605 15075 15155 17670	
<b>1800</b>			11880	7410 9445 9950 11620 11935 13605 15075 15155 17670	
<b>1900</b>	9505 11760		15375		7380 9890 12070
<b>2000</b>		5930 11600	15375	7410 9445 9910	
<b>2100</b>		9880 11600	9990 15375	7410 9445 9910	
<b>2200</b>		7345 9415	9990	9705 9950 11620 11645 13605	
<b>2300</b>	9550		11885	9705 9950 11620 11645 13605	

NOTE: This chart is intended as a guide for those wishing to use certain transmissions to aid their personal research. It is not a guide to schedules of any particular BC station, nor can it be assumed to be accurate. The two areas where these transmissions *may* be heard *anywhere* within the 60mins period are Europe and America.