

**ENIGMA 2000 NEWSLETTER**<http://reachus.at/enigma>

May 02

Articles, news reports and Items of interest:

[e2k\\_news@hotmail.com](mailto:e2k_news@hotmail.com)

Issue 10

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

Ascension Island: Location 8.0S, 14.4W Elevation 2814ft/858m is a Holocene stratovolcano with no historic eruptions.

Welcome all to issue 10 of the E2k Newsletter.

Thanks again to all our contributors for their input, once more the quality, quantity and accuracy was of the high standard that is now becoming "normal" for the submissions to us.

The "gremlins" struck again in early April and unfortunately a few logs were lost while in the email system between your editors, apologies if we've missed anybody out.

ENIGMA 2000 is reliably informed that its Newsletters have an enthusiastic following on Ascension Island, welcome aboard lads.

Last issue I commented that E05 had sent the same message at least 30 times, it is now up to 82 times, methinks they have a very deaf recipient!! BUT this is rapidly being caught up by **M23** which has up until early March sent one message 54+ times and another 44+ times since late 1999??? (per GD)

E10's, another little quirk has been spotted here with both **MIW** and **VLB** sending the identical message string (Sun 14 Apl) of **TMX1504**, looking back through our records I have not found a previous instance of this since 1993, (thanks AB), however there has been only one logging in past 2 months of the strings that were prevalent during late 2001 (**CIOA4M2C4**) but to brighten things up the seldom heard **HNC-I**, **HNC-R**, **HNC-S**, **HNC-Z**, and **HNC-1** all put in an appearance, as did **SYN-D2** and **VLB-3**, see Voice Section for more details.

G04, back with us after a period of absence, heard 04/04 at 20.00z on 5210kHz

CW, a **NEW** variant of **M13** has been "discovered" by MS, added to Control list as **M13d**,

Judging by its message number it's been around for a long time, so possibly previously heard and logged as M13, illustrates the importance of full & accurate logs.

How many others are still out there waiting for us to find?

CW, following our offer to provide predictions for selected stations, in issue 9, we have received a number of "I'd love to listen but my CW is not very good" comments, well here's some help.

Starting with this issue we are going, for a trial period, to attempt to address these requests with a new section, Beginners Corner. We will feature selected "easy" stations and give the necessary info to encourage those interested and also provide a series of Prediction Charts for some CW stations.

## CW Matters!

Morse Stations For Beginners

Some listeners have expressed an interest in morse stations, but do not know where to start.

All times are in UTC [Same as GMT or Zulu time, z]

As most of them send figures, all that is needed to learn are the figures 0 to 9 plus the break sign = which is -...- the / sign -.-. and the letter T - which is used in all the examples as zero.

The slowest is M45 which transmits on Tuesday and Thursday at 1802 on 5074 // 5474. Call is 074 and will be on these frequencies until the end of August. It is helpful as all the groups are sent twice, and the same message is repeated for several weeks.

Format for M45 is, 074 R4 XXX XXX XX XX = = 5 figure groups sent twice = XXX XXX XX XX 000, XXX being a 3 figure DK group XX being the group count.

Another Family that sends slowly is M13. The predicted frequencies for these are listed for May and June. They do change frequency each month. For those of you who are night owls, it is thought that most of the M13 messages are sent first between 0000 and 0500 then the evening skeds are repeats.

They mostly transmit on the Hour, although there are some odd ones on the half hour. A useful thing is that the call is repeated after the message is sent so if hearing a likely transmission of 5 figure groups sent slowly, wait until the end of the message to see if the call is repeated. The message is repeated after this.

The format for M13 is XXX R5 = XXX XX = Single 5 figure groups = XXX 12 times = XXX XX = Single 5 figure groups = 000. XXX is a 3-figure call = XXX the message number XX the group count.

The call up remains the same for some, uses 2 depending on the length of the message, and some change the call every month. M13 A B & C do this, plus the one that transmits at 1500 and 1700.

There are possibly other M13 stations that have not been logged so far, any you hear can be confirmed and will be of great help.

There are of course many more morse stations, sending at speeds up to 40 WPM for those of you who are good at morse.

For more information on other stations, or if you want anything identified, send an email to [crripwnr@supanet.com](mailto:crripwnr@supanet.com)

### CW Beginners Corner (Part 1, provided by GD)

The majority of easy CW Number Stations send all figures so this drastically cuts down on what you need to learn. All that is necessary is the figures 0-9 plus the "break sign" = sent as -...- and the "/" sign sent as -...- together with the letter "T" sent as -, which in the examples we give is used as the "zero" ( called a Cut Number).

On making yourselves a CW list you will notice that everything apart from the "cut zero" is composed of "5 elements" which after a short period of practice is easily recognisable.

Over the next few N/L issues we will "speed up" a little ;-))

#### M45

A slow CW, 12 wpm or less, all groups are sent twice and the same message is sent for several weeks, so you can check your proficiency progress.

The sked May to end of August will be Tuesday & Thursday at 17.02z on 5074 // 5474 with the call ID 074.

The format will be "074 repeated 4 times XXX XXX XX XX = then 5 fig gps sent twice, and ending XXX XXX XX XX 000".

The XXX is a 3 fig "decode key" and the XX is the group count, as these are sent at both the beginning and end of message it is a handy check.

#### M13

A slow CW, about 9wpm, for Night Owls it TX's between 00.00 – 05.00z, which are repeated in the following evenings. Most TX's are on the hour but has a few ½ hr ones. Changes freqs each month so we give the May & June predictions as the first of the Chart series.

The format will be "XXX repeated 5 times = XXX XX = then single 5fig gps = XXX 12 times = XXX XX = then single 5fig gps = 000". In this case the XXX is message number and XX the group count.

### **Prediction Charts**

**These charts may be freely used by others, if reproduced in full, with appropriate credits.**

Freqs shown as +-, +, -, indicate last heard freq and direction of search for current freq.

Where shown as "possible" day/time not certain, but assessed on historical info & experience.

M13 Prediction for May 2002 (copyright ENIGMA2000/GD)

<u>Day</u>	<u>Date/s</u>	<u>Time(utc)</u>	<u>Freq</u>	<u>ID</u>	<u>Notes</u>
Wed	1 <sup>st</sup> /15 <sup>th</sup>	06.00z	9064kHz	823	
Wed	15 <sup>th</sup>	09.00	7678	261	possible
Wed	1 <sup>st</sup> /15 <sup>th</sup>	21.00	5085	367C	
Wed	1 <sup>st</sup> /15 <sup>th</sup>	21.00	7517	254	
Thu	2 <sup>nd</sup> /16 <sup>th</sup>	06.00	9064	823	
Thu	2 <sup>nd</sup> /16 <sup>th</sup>	20.00	12834	253	

Thu	2 <sup>nd</sup> /16 <sup>th</sup>	21.00	5085	367C
Thu	2 <sup>nd</sup> /16 <sup>th</sup>	21.00	7517	254
Thu	2 <sup>nd</sup> /16 <sup>th</sup>	21.45	9027	757
Fri	3 <sup>rd</sup> /17 <sup>th</sup>	20.00	8497	284
Fri	3 <sup>rd</sup> /17 <sup>th</sup>	20.00	12834	253
Fri	3 <sup>rd</sup> /17 <sup>th</sup>	21.45	9027	757
Sat	4 <sup>th</sup> /18 <sup>th</sup>	02.30	5876	303D poss day/evening, check
Sat	4 <sup>th</sup> /18 <sup>th</sup>	03.00	6212 +-	378
Sat	4 <sup>th</sup> /18 <sup>th</sup>	20.00	8497	284
Sat	4 <sup>th</sup> /18 <sup>th</sup>	20.30	5788	411
Sat	4 <sup>th</sup> /18 <sup>th</sup>	21.00	5757	378
Sun	5 <sup>th</sup> /19 <sup>th</sup>	02.30	5876	303D poss day/evening check
Sun	5 <sup>th</sup> /19 <sup>th</sup>	19/20.00	13415	261 or 590
Sun	5 <sup>th</sup> /19 <sup>th</sup>	20.30	5788	411
Mon	6 <sup>th</sup> /20 <sup>th</sup>	03.00	6212 +-	378
Mon	6 <sup>th</sup> /20 <sup>th</sup>	08.00	9998 +-	123 possible
Mon	6 <sup>th</sup> /20 <sup>th</sup>	08.00	9*** +-	456 possible
Mon	6 <sup>th</sup> /20 <sup>th</sup>	19/20.00	10246	261 or 590
Mon	6 <sup>th</sup> /20 <sup>th</sup>	19/20.00	11306	517
Mon	6 <sup>th</sup> /20 <sup>th</sup>	21.00	5757	378
Mon	6 <sup>th</sup> /20 <sup>th</sup>	21.10	9181 +	???
Mon	6 <sup>th</sup> /20 <sup>th</sup>	21.20	9346 +	746
Mon	6 <sup>th</sup>	21.45	3868	342 SO4
Tue	7 <sup>th</sup> /21 <sup>st</sup>	05.00	9/11 ??	272
Tue	7 <sup>th</sup> /21 <sup>st</sup>	08.00	9998 +	123 possible
Tue	7 <sup>th</sup> /21 <sup>st</sup>	08.00	9000 +-	456 possible
Tue	7 <sup>th</sup> /21 <sup>st</sup>	09.00	7678	281 possible
Tue	7 <sup>th</sup> /21 <sup>st</sup>	19/20.00	11306	517
Tue	21 <sup>st</sup>	21.00	5376	346 poss Tue 28 <sup>th</sup>
Tue	7 <sup>th</sup> /21 <sup>st</sup>	21.00	8932	272
Tue	7 <sup>th</sup> /21 <sup>st</sup>	21.20	9346 +	746
Tue	7 <sup>th</sup>	21.45	3868	342 SO4
Wed	8 <sup>th</sup> /22 <sup>nd</sup>	09.00	7678	261 possible
Wed	22 <sup>nd</sup>	21.00	5376	246 poss Wed 29 <sup>th</sup>
Wed	8 <sup>th</sup>	21.45	????	307 check, E18
Thu	9 <sup>th</sup> /23 <sup>rd</sup>	15/17.00	9965	865
Thu	9 <sup>th</sup> /23 <sup>rd</sup>	20.00	12714	714
Thu	9 <sup>th</sup>	21.45	????	307 E18
Thu	23 <sup>rd</sup>	22.00	6683?	186 G22
Fri	10 <sup>th</sup> /24 <sup>th</sup>	15/17.00	9965	865
Fri	10 <sup>th</sup> /24 <sup>th</sup>	20.00	12714	714
Sat	11 <sup>th</sup> /25 <sup>th</sup>	21.00	4732	764B
Sun	12 <sup>th</sup> /26 <sup>th</sup>	19.00	8086	417
Sun	12 <sup>th</sup> /26 <sup>th</sup>	21.00	4732	764B
Mon	13 <sup>th</sup> /27 <sup>th</sup>	03.00	8247 -	139A
Mon	13 <sup>th</sup> /27 <sup>th</sup>	19.00	8086	417
Mon	13 <sup>th</sup> /27 <sup>th</sup>	20.00	9945	139A
Mon	13 <sup>th</sup> /27 <sup>th</sup>	21.15	5766 +-	501

Mon	13 <sup>th</sup> /27 <sup>th</sup>	22.00	12216	458	
Tue	14 <sup>th</sup> /28 <sup>th</sup>	03.00	8247 -	139A	
Tue	14 <sup>th</sup> /28 <sup>th</sup>	09.00	7678	261	possible
Tue	14 <sup>th</sup> /28 <sup>th</sup>	20.00	9945	139A	
Tue	28 <sup>th</sup>	21.00	5376	346	
Tue	14 <sup>th</sup> /28 <sup>th</sup>	22.00	12216	458	

M13 Prediction for June 2000 (Copyright ENIGMA2000/GD)

<u>Day</u>	<u>Date/s</u>	<u>Time(utc)</u>	<u>Freq</u>	<u>ID</u>	<u>Notes</u>
Sat	1 <sup>st</sup> /15 <sup>th</sup>	02.30z	5876kHz	303D	
Sat	1 <sup>st</sup> /15 <sup>th</sup>	03.00	6212	378	
Sat	1 <sup>st</sup> /15 <sup>th</sup>	20.30	5918	411	
Sat	1 <sup>st</sup> /15 <sup>th</sup>	21.00	5925	378	
Sun	2 <sup>nd</sup> /16 <sup>th</sup>	02.30	5876	303D	
Sun	2 <sup>nd</sup> /16 <sup>th</sup>	19/20.00	12235	261 or 590	
Sun	2 <sup>nd</sup> /16 <sup>th</sup>	20.30	5918	411	
Mon	3 <sup>rd</sup> /17 <sup>th</sup>	03.00	6212	378	
Mon	3 <sup>rd</sup> /17 <sup>th</sup>	08.00	9998 +-	123	possible
Mon	3 <sup>rd</sup> /17 <sup>th</sup>	08.00	9000 +-	456	
Mon	3 <sup>rd</sup> /17 <sup>th</sup>	19/20.00	11612	517	
Mon	3 <sup>rd</sup> /17 <sup>th</sup>	19/20.00	10427	261 or 590	
Mon	3 <sup>rd</sup> /17 <sup>th</sup>	21.00	5925	378	
Mon	3 <sup>rd</sup> /17 <sup>th</sup>	21.20	10537	746	
Tue	4 <sup>th</sup> /18 <sup>th</sup>	05.00	9 - 11	272	search needed
Tue	4 <sup>th</sup> /18 <sup>th</sup>	08.00	9998 +-	123	possible
Tue	4 <sup>th</sup> /18 <sup>th</sup>	08.00	9000 +-	456	
Tue	4 <sup>th</sup> /18 <sup>th</sup>	19/20.00	11612	517	
Tue	4 <sup>th</sup> /18 <sup>th</sup>	21.00	9825	272	
Tue	4 <sup>th</sup> /18 <sup>th</sup>	21.20	10537	746	
Wed	5 <sup>th</sup> /19 <sup>th</sup>	06.00	9064	823	poss 11.00z 7877kHz
Wed	5 <sup>th</sup> /19 <sup>th</sup>	21.00	6835	254	
Wed	5 <sup>th</sup> /19 <sup>th</sup>	21.00	5172	134C	
Thu	6 <sup>th</sup> /20 <sup>th</sup>	06.00	9064 +-	823	poss 11.00z 7877kHz
Thu	6 <sup>th</sup> /20 <sup>th</sup>	20.00	13254	253	
Thu	6 <sup>th</sup> /20 <sup>th</sup>	21.00	5172	134C	
Thu	6 <sup>th</sup> /20 <sup>th</sup>	21.00	6835	254	
Thu	6 <sup>th</sup> /20 <sup>th</sup>	21.45	6933	757	
Thu	20 <sup>th</sup>	22.00	6683?	186	G22
Fri	7 <sup>th</sup> /21 <sup>st</sup>	04.00	6642 +-	284	
Fri	7 <sup>th</sup> /21 <sup>st</sup>	20.00	13254	253	
Fri	7 <sup>th</sup> /21 <sup>st</sup>	20.00	8588	284	
Fri	7 <sup>th</sup> /21 <sup>st</sup>	21.45	6933	757	
Sat	8 <sup>th</sup> /22 <sup>nd</sup>	04.00	6642 +-	284	
Sat	8 <sup>th</sup> /22 <sup>nd</sup>	20.00	8588	284	
Sat	8 <sup>th</sup> /22 <sup>nd</sup>	21.00	5018	933B	
Sun	9 <sup>th</sup> /23 <sup>rd</sup>	19.00	8175	417	
Sun	9 <sup>th</sup> /23 <sup>rd</sup>	21.00	5018	933B	
Sun	9 <sup>th</sup> /23 <sup>rd</sup>	21.15	5766 +-	501	

Mon	10 <sup>th</sup> /24 <sup>th</sup>	03.00	8247	823A	
Mon	10 <sup>th</sup> /24 <sup>th</sup>	19.00	8175	417	
Mon	10 <sup>th</sup> /24 <sup>th</sup>	20.00	9963	823A	
Mon	10 <sup>th</sup> /24 <sup>th</sup>	21.15	5764 +-	501	
Mon	10 <sup>th</sup>	21.45	3868	342	S04
Mon	10 <sup>th</sup> /24 <sup>th</sup>	22.00	12216 +-	458	
Tue	11 <sup>th</sup> /25 <sup>th</sup>	03.00	8247	823A	
Tue	11 <sup>th</sup> /25 <sup>th</sup>	09.00	7678 +-	281	poss 13.00z, freq unk.
Tue	11 <sup>th</sup> /25 <sup>th</sup>	20.00	9963	823A	
Tue	25 <sup>th</sup>	21.00	5782	346	
Tue	11 <sup>th</sup>	21.45	3868	342	S04
Tue	11 <sup>th</sup> /25 <sup>th</sup>	22.00	12216 +-	458	
Wed	12 <sup>th</sup> /26 <sup>th</sup>	09.00	7678 +-	281	poss 13.00z, freq unk.
Wed	26 <sup>th</sup>	21.00	5782	346	
Wed	12 <sup>th</sup>	21.45	????	307 or 269	E18
Thu	13 <sup>th</sup> /27 <sup>th</sup>	15/17.00	9275	183	
Thu	13 <sup>th</sup> /27 <sup>th</sup>	20.00	13157	714	
Thu	13 <sup>th</sup>	21.45	????	307 or 269	E18
Fri	14 <sup>th</sup> /28 <sup>th</sup>	15/17.00	9275	183	
Fri	14 <sup>th</sup> /28 <sup>th</sup>	20.00	13157	714	

There are probably some further M13 skeds that have not yet been identified, if you catch one that is not on the list please let us know by the usual routes AND cc to <[crripwnr@supanet.com](mailto:crripwnr@supanet.com)>

## SELECTED MORSE STATIONS

Note that any stations shown "cNNNN" are approx freq. Analogue receivers.

Once more this is a limited representation of the logs received. Listed frequencies are given only as an illustration of the range covered, and have been active in the recent past, and as mentioned in the last issue predictions are available for many of them.

More comprehensive station details can be found in the ENIGMA Control List (on our Website) and further information, including Station Profiles, is continuously being added as part of our ongoing update procedure. It is pointless adding that info to the Newsletter, why reinvent the wheel !!!

### UNID1 CW (per IB)

06/03 15.00z 6852kHz sent " 248 248 248 000 000" r5, long zeros, then "248 248 24 ttt"  
Comments welcome.

### UNID2 CW(per IB)

Wed 06/03 13.04z 5600kHz sent "cq141 x 3 hr hr 21 21 == 21x5f ar ar " all repeated,  
Wed 06/03 14.32z 6290kHz sent "cq432 x 3 hr hr 21 21 == 21x5f ar ar" all repeated  
This was reported as M40 but both the structure and freqs do not match the known skeds  
is it changing from the previous, fairly standard, 18x5f gp messages using new freqs?

### UNID3 CW(per IB)

Sun 31/03 14.04z 6760kHz, MCW, 5f, cut.  
Sent 761 x 3, 333 x 2 all rpt. == 076 076 51 51 ==, 51 x5f gps cut.  
then == 077 077 63 63 ==, 63 x 5f gps cut. Repeats all above, ends == 000 (ttt)

Wed 10/04 14.02z sent msg 078, 57 gps and 079, 52 gps, and 080 36 gps  
Same format as above

### UNID4 CW(per IB)

Sat 30/03 01.30z 18643kHz, MCW, long 0  
Sent 987 x 8 000, 987 x 6 000, 987 x 8 000, 987 x 11 000, 987 x 8 000, 987 x 8 000, 987 x 5 000  
987 x 13 000, 987 x 6 000, 987 x 6 000 000 (last gp)

UNID5 CW(perGD)

Mon 25/03 22.00z 9254kHz, hand, long zeros  
529 r?, 000. For 10 mins  
Thu 28.03 22.00z 9254kHz, very erratic hand, long zeros  
529 x 5 000, 529 x 19 000, 529 x 9 000 000

M01(hand sent)

Maintaining the current sked. No "end of month", M01a, noted for March. More than the usual "463" mssgs.  
Sun 17/02 07.00z 5465kHz 197-214/34  
Tue 19/02 20.00z 4490kHz 197-061/24  
Tue 05/03 20.00z 5017kHz 463-527/36  
Other freqs logged 5474, 6508, 5020, 4555kHz

M03

Traffic now suddenly much reduced, a shadow of its former self, the long running sked at 16.30z to ID 287 not heard at all in March.

The only identified activity appears to be:-

Tuesday	07.30z	4870kHz	041
	09.30z	6480	552
Wed	07.30	6940	508
Thursday	09.00z	6480	011
Friday	08.00z	4958	041
Saturday	08.00z	8186	624 (M08 Txing on same freq)

M08 (cut)

Tue 26/02 23.00z	8135/6kHz	ID 69262	1751?	90711
Thu 28/02 23.00z	8135/6kHz	ID 69263	14921	02023
Sun 03/03 13.00z	6982kHz	ID 21962	28563	86241
Sun 03/03 13.00z	14640kHz	ID 61213	76701	19551
Sat 16/03 08.00z	8186kHz	ID 00326	80831	?6061
Sun 17/03 07.00z	8098kHz			in prog
	07.17z	9064kHz		in prog
Sat 23/03 02.00z	5419kHz			in prog
	07.00z	8187kHz		in prog

Other freqs heard 7320, 7862, 9152, 9238, 12093kHz

Many more freqs/times logged, but no triple freqs noted, MS remarks that there are clearly harmonics of 7320kHz on 14640kHz and 8136/16272, 7862/15724,

M10

The skeds published in N/L9 are still going.

A very unusual happening on Wed 10 Apl at 21.00z when it made 2 TX's simultaneously.

4783kHz	555 642 21 824 37
5300kHz	555 048 39 893 30
Sun 17/02 21.00z	4005kHz 555, 794, 34
Tue 26/02 22.00z	7380kHz 555x3, 629x3, 26, 823x3, 25. R5
Tue 02/04 21.00z	4783kHz 555, 748, 38 164 40
Sun 17/03 21.00z	4785kHz 555,799-01/27

M12

Used same freqs in Feb/Mar.

Fri 01/03 22.00z 8185kHz, 491x3 1 (r2)  
Fri 15/02 21.20z 9095kHz, 058/000

Tue 02/04 20.20z 14365kHz, 334x3 1  
20.40z 13374kHz, 344x3 1  
21.00z 11407kHz, 334x3 1

M13

Busy as ever, see Beginners Corner for May/June predictions.  
Logs received confirmed the Jan/Feb/Mar predictions, too many to publish.

M13b

Only one logging, updated sked in Control List for this regular.  
Sat 09/03 22.00z 3575kHz, 510/000

M13d (NEW)

First noted during March 02, probable start at 02.30z, very slow (5 gps min), very long messages up to 2+hrs. The freq is poor in Europe owing to strong BC stations.

Stays on one freq (5876kHz) unlike other M13's. Msg No (264) indicates that it's been around for a long time!!

Another interesting item is that groups 1 & 2 are repeated as last 2 groups of message.

Heard as part TX's on:- Mar 2<sup>nd</sup>, 3<sup>rd</sup>, 24<sup>th</sup>, with complete TX on Apl 4<sup>th</sup>.

Format:- "303 x 12, BT, 264, 86, BT, 86 x 5f gps, ending BT 000" (sent as ttt)

All reports welcome, especially full transcripts, for further investigation and developing the profile and sked.

M23

Intensive, co-ordinated worldwide monitoring of this station has provided a few surprises with many new TX's being logged than are normally heard in Europe/N.America and whereas the indications were that freqs had moved generally lower we find many of the higher ones in use. One item that became highlighted was that the "310" c/s is being sent 7 times daily, it had been thought that the 3f calls were an "all is well" type message but we may need to rethink this. Special thanks to those who provided logs.

Daily listing, Time/Freq's/ c/s

01.00z/10250//11020/310, 01.30z/7960//8160/310, 02.00z/7960//8160/310  
02.30z/7960//8160/555, 02.30z/10110//11220/555 03.00z/7770//8160/555  
03.30z/7770//8160/000, 03.30z/10220//?/000 04.30z/8940//?/310  
04.30z/12220//13140/310 07.30z/21520//22830/555 08.00z/21520//?/579  
\*08.00z/8307//9285/579 09.00z/23530//23360/130/555 double TX \* may have ended  
09.30z/22230//?/130 09.30z/23360//?/555 14.30z/16940//17460/310 15.00z/14230//14750/310  
15.30z/10110//11220/555 16.30z/10660//12220/000 17.00z/10250//11020/555 20.30z/6980//7980/555  
21.30z/7630//8290/555  
22.00z/7770//8160/555

An "odd" time, unlisted, TX of 09.58z on 7800kHz has been getting later, up to 10.10z start

On 05/03 it popped up on 7795kHz at both 10.30z & 16.00z, first time since Jan 02.

The 10.30z message to c/s 882 was first sent on 27 Sept 99, now heard 54 times

The 16.00z message to c/s 024 was first sent on 13 Oct 99, now heard 44 times

Another enigma for ENIGMA, agents having a long holiday ??

M24/M24a

Another unusual happening.

On Mon 11 Mar at 19.00z 2 simultaneous messages were being sent to agent 263, very clever fella, this has never been noted previously. Or perhaps 263 is not an addressee ID ??

M24 7969kHz 263 794 794 100 100

M24a 4490kHz 263 785 785 40 40 263 945 100 100 (dual message variant)

M40

Wed 06/03 13.00z 5600kHz 113-141/21

M45

Thu 14/02 18.02z 4025kHz 525-486/35 the current sked, to end of April is:-  
Tue/Thur 18.02z 4555//4955kHz ID 555-792/34  
See Beginners Corner for more details.

### M51

Again been a very busy boy with this marathon effort, on Mon 11 Mar in prog at 17.30z on 5868kHz, was still going at 22.30z and again at 06.55 Tues morning ending at 07.02z (was it going all night?). then at 08.15 it fired up on 5423//5886kHz and kept going until 13.00z.

Our contributor asks if they do this just to keep someone busy trying to decode it?!, valid point.  
Other busy freqs 4910, 5764kHz

### M76 (3819kHz)

Sat 09/03 sent longest message(s) so far heard lasting for 62 minutes.

Called "DAC1 de UUK7 QTC 66 24 =" with messages 063-11, 062-33, 061-32, 060-39, 069-52, 058-34, 057-32, 056-44, 055-30, 053-8. Probably arranging a party ☺ ☺

Sat 16/03, another, even longer, marathon TX lasting 2 hrs with messages for:-

093-33, 092-47, 091-24, 090-27, 089-36, 099-43, 087-31, 086-10, 085-29, 084-30, 083-25, 082-29, 081-34, 080-35, 079-40, 078-30, 077-40, 076-42, 075-39, 053-8, (note the repeat to 053 from 09/03 TX) going to be some bash!!

### M82

Not usually heard in W.Europe, been reported from NW.America, good in E.Europe

Feb 02 hrd in UK on 4700kHz 13.00z, 14.30z . poss N Korean Army  
Sample format "vvv xxx xxx xxx de yyy yyy qsa qtc nnn" R2

Credits AB, AF, F Germany, GD, HFD, IB, LP, ML, MS, PoSW, Anon UK, Anon EU.

## SELECTED VOICE STATIONS

Frequencies preceded by 'c' have been taken from an analogue receiver.

This issue we see some time devoted to S17, a station that had not been widely heard until AnonUK discovered it sending on 21/02. We are attempting to discover its habits and all input is requested via the usual routes please. It has not been heard since 08/03. Keep your ears open for this rarity!

### E05

C writes, " Although I don't seem to hear many of these there was a most unusual transmission on SUN March 10th at 1800z. The usual 11072 and 13465 kHz transmission was noted with 'call 351' count 80. Tuning around I also noted the same transmission on 9090 and 11526 kHz, I cannot remember ever hearing a standard E05 message on 4 simultaneous frequencies. Was this a vital message, a mix-up at the transmitter site ? A new anti-jamming ploy for when 'Gulf War - The Sequel' starts ?"

6950kHz 2120z 08/04 //7585kHz new sked? Poss group count 100 ended 2129z .Note:  
Weekday transmission at 0800z ends at H+29 with gc 100  
2100z 09/04 [210/100] Looks as this is a repeat of the 0800z 10,527 //13,996  
and 1200z 16,090 // 13,450 Monday to Friday  
2100z 10/04 [210/100] // 7,585 KHz, very strong signals on both frequencies  
looks as this is a repeat of the 0800z 10,527 //13,996 and 1200z 16,090 //  
13,450.  
6960kHz 2200z 04/03 [784/157] // 9090kHz good signal but with QRM from E03  
"Lincolnshire Poacher" YL - you would have thought that the guys in  
Langley, Virginia would have had a word with the fellows in MI6 and sorted  
out this long standing clash of interests!  
2200z 06/03 [784/157] //9090kHz  
2200z 11/03 [797/170] //9090kHz, usual QRM present.

2200z 13/03 [797/170] //9090 kHz - also 18/03  
 2215z 01/04 Usual E03 QRM // 9,090 kHz, weak signal  
 2200z 08/04 [806/205] // 9,090 KHz, both strong signals. 6960 Over E03  
 6970kHz 2100z 02/03 [574/174] Str signal //8110kHz  
 2116z 06/03 //8110kHz  
 2100z 16/03 [313/174] both very strong signals //8110 kHz  
 2112z 09/04 transmission in progress, the schedule first noticed on Christmas Day, also on Saturdays, the only E05 which uses upper sideband suppressed carrier. Just to add to the interest today there was an M10 CW station on 8,112 kHz which caused QRM to 8,110 and ended 2118z with "BT BT 99 99 30 30 000".  
 8080kHz 2113z 01/03 [Weak transmission] //10321kHz  
 2100z 14/03 [851/127] gd sig with pulse type QRM // 10,321 KHz, weak  
 2114z 15/03 very strong signal // 10,321 KHz, much weaker  
 2114z 28/03 // 10,321 kHz "Count" after "Repeat";- 54.  
 2100z 04/04 [499/54] str signal //10321kHz weak  
 9090kHz 2216z 25/03  
 10527kHz 0800z 26/02 [210 Count 100 ( 38 )] // 13996  
 0800z 13/03 [210/100] first noted around Christmas, 5F's the same //13906kHz  
 0800z 29/03 [210/100] 5Fs still the same as noted in December //13906kHz  
 11072kHz 0800z 01/04 [210/100] //13996kHz weaker than usual  
 1800z 03/03 [361/80] //13465 both strong.  
 1800z 04/04 [287 count 189] //13465  
 1700z 17/03 [351/80] strong sigs both freqs //13465kHz  
 1816z 28/03 //13465 kHz, strong sigs both freqs "Count" after "Repeat";- 80  
 13450kHz 1200z 26/02 [210 Count 100 ( 39 )] // 16090  
 1218z 14/03 QRM from a "Jet", // 16,090 KHz, very strong signal  
 On 14/03 e2k received this, "E05 is still churning out the 210 Count 100 message, I have heard it 59 times so far!"  
 13906kHz 1200z 29/03 [210/100]. 13,450 kHz gd sig QRM strong "Jet", // 16,090 kHz wk  
 1200z 03/03 [ weak signal, 803/129. The usual parallel for this one is 15732 kHz - inside the 19 metre BC band and close to Radio Norway on 15735 which today was such an S9 doubleplus signal that it was impossible to hear anything from Cynthia!  
 1233z 13/03 //15732kHz  
 1200z 31/03 [413/141] //15732kHz, both freqs weak  
 1200z 07/04 [062/170] //15732 kHz both freqs stronger, BCstn on 15,735 weaker than usual, 062/170.  
 14739kHz 1516z 03/03 //16198kHz  
 1513z 17/03 //16198kHz gd sig both freqs  
 1516z 29/03 //16198kHz  
 1500z 07/04 [528 count 215] //16198  
 1500z 12/04 [528 count 215]  
 15732kHz 1200z 03/03  
 16198kHz 1614z 02/03  
 1600z 09/03 [873/194]  
 1632z 13/03 weak, severe buzzing noise QRM  
 1600z 16/03 [346/196] somewhat stronger than usual, strength S7  
 1500z 07/04 [528 count 215] //14739  
 1500z 12/04 [528 count 215]  
 18617kHz 1400z 09/03 [722/98] //19622kHz Last 09/02, carrier 15 mins prior S8 // weak  
 1400z 16/03 [722/98]\_up to strength S8, // 19,622 kHz, slightly weaker  
 1400z 23/03 [597/105] weak but clear on both frequencies  
 1400z 06/04 //19662kHz, both freqs stronger, upto S6 or S7

PoSW adds, "E05 continues much as before except a new schedule on Monday 8 - April on 6,950 // 7,585 kHz which must have started at 2100z and needs further investigation! The weekday 0800z transmission is still on; I was last able to check the 5Fs on Easter Monday and they were still the same as noted just after Christmas. Also, the Monday and Friday 2200z transmissions on 9,219 // 10,527 kHz have not been on since late February; this vanished once before in early January then re - appeared later in the same month but now seems to have gone for good. The Saturday 1400z E05 on 18,617 // 19,622 kHz continues to be erratic, often vanishing for a few weeks and then re - appearing."

Of the E05 210/100 messages, PoSW writes, "Cynthia is really going over the top with this 210/100 message; the first noted on Mon 08/04 at 2100z [6950//7585] has been on everyday, including Saturday and Sunday unlike the longer standing 0800z 10527/13996kHz and 1200z 13450//16090kHz 210/100 which are Mon to Fri only.

Also an anomaly was noted with this 2100z sending on both Sat 13/04 and Tues 16/04: On both days there was a strong transmission in progress when checked at approx 2115z on 7585kHz but nothing on the usual parallel 6950kHz. A check of other frequencies used by E05 in the past found Cynthia on 5850kHz on both occasions. This was only just detectable under a very strong BC station, since 5850kHz is inside the 49M BC band.

As if all this wasn't enough there is another sending of the 210/100 message at 1900z on 8085//9129kHz first noticed Friday 12/04. The carriers being noted warming both frequencies up around 1840z. This too has been on every day, including Saturday and Sunday. [Txn PoSW]

### E06

There was a dramatic drop in activity of the E06 English Man station during March; the usual Saturday 1230z and 1330z showed up on frequencies in the region of 15,880 kHz (1230z) and 13,520 kHz (1330z) on the 2nd, 9th and 16th of March but there was no sign on the remaining Saturdays, the 23rd and 30th. I think these were the only times I have looked for the Saturday E06 on a known frequency schedule and found no trace. E06 was back on the first Saturday in April on 14,860 kHz and 12,190 kHz. [PoSW].

Gert and AnonUK wrote in to advise us that Sat/Sun freq's for E06 for April are: 8080kHz 1230z 14860kHz, 1330z 12190kHz

Gert observes that the Thursday/Friday transmissions [6785/7785kHz] may only occur in weeks 2 and 4 each month. [Note last group 15890kHz 16/03 transmission].

Gert also reports a different E06 transmission [8080kHz 2010z 31/03] he heard starting as having "a strange intro starting at 2010z on 8080 kHz (sun 31 march 2002): 102 102 22585 for 5 minutes; 537 40 40 followed by 5 fig groups, each repeated, starting with 04121 ending 00000."

Onto PoSW's observations:

6785kHz	2200z	02/03	[602 and 985 985 147 147]	Rpt of 01/03 very strong sigs
7785kHz	2100z	01/03	[602 and 985 985 147 147]	very strong sigs
8150kHz	2200z	04/03	[830 830 830 00000]	There had been an S06 Russian Man transmission on this frequency at 2130z, ending at 2144z and the carrier stayed on until E06 started up at 2200z.
9090kHz	2100z	23/03	[304 304 304 00000]	If the transmitter used by E06 at 1230z had blown up then this one was working very well! A four minute "304 304 304 00000", very strong signal, lower sideband well suppressed, carrier with tone was up at 2044z with a single spoken "304" at 2048z.
12190kHz	1330z	06/04	[629 629 629 00000]	
12207kHz	1602z	14/03	[709 DK/GC 638 638 147 147]	near to XJT trans. USB used for copy.
13520kHz	1330z	02/03	[584 dk/gc 709 709 133 133]	Strong sigs, both sidebands.
	1324z	03/03	rpt sending,	lower sideband suppressed.
	1338z	09/03	[632 632 57 57 00000]	Weaker signal than the first sending [15880] but suddenly became stronger just after tuning in as though someone at the TX had just turned the wick up; perhaps Boris in the control room suddenly noticed the power switch was set to "Low". Ended 1344z
	1330z	16/03	[584 DK/GC 917 917 230 230]	long msg, gd sigs, both sidebands.
	1402z	17/03	[917 917 230 230 00000]	end 1413z-almost 45 mins message

13532kHz 1220z 23/03 [761 761 761 00000] very strong signal with both sidebands, carrier noted while tuning around just after 1200z. E06 with same "761 - no message" transmission similar to that noted on 9 and 23 February at 1220z. BUT;- the 1230z and 1330z E06 did not show up today, much to my surprise; I checked the frequencies used by this regular Saturday English Man transmission so far during March, i.e. 15,890 KHz at 1230z and 13,520 KHz at 1330z - also checking 30 KHz or so either side - but found no trace. I think this is the first time this has failed to appear. Propagation conditions seemed to be OK; the broadcast bands were lively enough and the High Pitched Tone transmissions at 1230 and 1250z were both strong signals.

14843kHz 1430z 14/03 [850 DK/GC 520 520 83 83] a second sending of the above, very strong signal with a distinct background buzz, higher than usual mains supply frequency; sounded similar in pitch to the note made by a microlight aircraft! - a similar noise has been noted in the past on the carrier of the Friday M14 MCW transmissions.

14860kHz 1230z 06/04 [629 629 629 00000] Slight background hum. Prev 2xSat tx not heard

15580kHz 1230z 03/03 [584 dk/gc 709 709 133 133] rpt 02/03 sigs, weaker LSB suppressed  
1230z 17/03 [584 and 917 917 230 230] rpt 16/03 sending.

15880kHz 1230z 09/03 [584 DK/GC 632 632 57 57] Str sigs, lwr sideband suppressed

15890kHz 1230z 02/03 [584 dk/gc 709 709 133 133] Strong sigs, both sidebands.

15891kHz 1236z 16/03 exceptionally long message, still sending at 1300z. Op gave up on it!

18290kHz 1330z 13/03 [850 DK/GC 520 520 83 83] very strong signal with both sidebands  
1336z 14/03 [520 520 83 83 00000] repeat of 13/03

©PoSW[TnxPoSW]

### E07

Gert advised us that the March Wed/Fri morning frequencies remained the same:

wed/ fri 0610z 6934kHz  
0630z 8103kHz  
0650z 9368kHz

whilst the mon/wed evening freqs were:

mon/wed 2100z 9420kHz  
2120z 8185kHz  
2140z 6817kHz

6934kHz 0610z 13/02 [null msg 913]  
0630z 22/02 [913-182/79=85489]  
0610z 01/03 [null msg 913]  
0610z 06/03 [null msg 913]  
0610z 13/03 [null msg 913]

7918kHz 2100z 18/02 [970-127/79=10896]  
2100z 25/02 [null msg 970]

8103kHz 0630z 20/03 [null msg 913]

8185kHz 2120z 04/03 [ID 418 Null Msg]  
2120z 18/03 [418-1451/108=89818]  
2120z 25/03 [418-534/69=52892]

9420kHz 2100z 04/03

Gert later confirmed the April freqs as:

mon/wed: 2000z 13922kHz, 2020z 12217kHz, 2040z 11030kHz  
wed/fri: 0510z 6934kHz, 0530z 8103kHz, 0550z 9368kHz

Some gaps are filled in by PoSW's E07 log:

22-Feb-02, Friday 0650 UTC, 9,368 kHz, E07 with what must have been the last of three sendings, calling "913 913 913 1", DK/GC "182 79" x 2, strong signal, over - riding BC station on nearby frequency.

11-Mar-02, Monday 2121 UTC, 8,185 kHz, E07 English Man calling "418 418 418 000", strong signal, stopped just after 2122z.

18-Mar-02, Monday 2140 UTC, 6,817 kHz, E07, "418" and "1451 108" again, strong signal but with QRM from a RTTY type signal and the "Wop wop".

20-Mar-02, Wednesday 2100 UTC, 9,420 kHz, E07 English Man with "418 418 418 000": inside the 31 metre band and an S9 plus many dB broadcast station suddenly came on the air at 2101 and 30 seconds; it would have been impossible to hear anything at all of E07 if this BC station had been on at 2100z. 2120 UTC, or rather 25 seconds before 2120z, E07, "418 418 418 000" again

22-Mar-02, Friday 0642 UTC, 8,103 kHz, E07 English Man in progress, strong signal, ended with "000 000" just after 0646z.

0650 UTC, 9,368 kHz, E07 again, "913 913 913 1", DK "3481", unable to make out the group count due to severe BC QRM; E07 seems to like lurking inside the 31 metre broadcast band!

27-Mar-02, Wednesday 0642 UTC, 8,103 kHz, E07 in progress, strong signal, ended "000 000" after 0646z.

0650 UTC, 9,368 kHz, E07, "913 913 913 1", DK/GC "3481 171" x 2, stronger than when heard on Friday, above, over - riding BC station.

1-Apr-02, Monday 2020 UTC, 12,217 kHz, E07 English Man, "920 920 920 000", strong carrier but modulation level low.

3-Apr-02, Wednesday 2000 UTC, 13,922 kHz, E07 English Man, "920 920 920 1", DK/GC "325 34" x 2, strong carrier, mod. low.

2020 UTC, 12,217 kHz, and "2040 UTC, 11,028 KHz, repeats of "920" and "325 34", same frequencies and call used in April last year. ©PoSW

#### E10

ML sent an interesting snippet via spooks concerning E10 operations:

"The High Court of Justice (HJC) today rejected the Telecommunications Law amendment making the Arutz 7 radio station legal. The HJC ruled that the amendment violated freedom of occupation and was therefore null and void." Ary followed with this rather interesting fact, "There are rumours -ever since Arutz 7 started- that they are funded by Mossad and that numbers transmissions originate from the ship. DFs from Cyprus and W.Europe pinpointed numbers transmissions to a spot somewhere off the coast of Haifa a couple of years ago. I wonder if there is any truth in this story. I wouldn't be surprised....." Neither would E2k!

Onto the E10 log from BMDartford.

#### E10

For The Month of February 02 in Freq/Time/Date/C/s/G order [all times Zulu]:

##### 3.150

22:00 15Feb PCD2 Nil(Also 4.270), 23.30 16Feb PCD G89, 23:26 24Feb PCD G56, 23:30 28Feb PCD G60 (//4.270 G60)

##### 3.230

23:50 4Feb CIO2 Nil, 22:49 14Feb CIO2 Nil (// 4.360 & 5.339),

##### 4.015

22:51 28Feb VLB2 Nil,

##### 4.270

00:01 5Feb PCD G72, 00:14 6Feb PCD G72, 23:04 6Feb PCD2 Nil, 21:05 14Feb PCD G23, 23:03 18Feb PCD G107,

22:34 26Feb PCD2 Nil,

##### 4.360

19:50 9Feb CIO2 Nil, 22:51 13Feb CIO2 Nil, 22:47 19Feb CIO2 Nil, 21:50 24Feb CIO2 Nil, 23:50 25Feb CIO2 Nil,

##### 4.461

01:02 2Feb FTJ G28, 18:35 3Feb FTJ2 Nil, 23:30 5Feb FTJ G72, 23:03 6Feb FTJ2 Nil, 23:33 7Feb FTJ G77,

21:16 9Feb FTJ G89, 20:00 10Feb FTJ G49, 21:32 14Feb FTJ G76, 20:10 15Feb FTJ G49, 17:58 16Feb FTJ2 Nil,

22:08 18Feb FTJ G85, 22:20 19Feb FTJ G88, 23:38 23Feb FTJ G33, 22:13 24Feb FTJ G65, 23:01 25Feb FTJ G33,

23:32 28Feb FTJ G103,

4.630

22:47 7Feb CIO2 Nil,

4.780

18:18 3Feb KPA2 Nil, 22:18 7Feb KPA2 Nil, 22:17 14Feb KPA2 Nil (//6.912), \*22:50 28Feb SYN2 Nil,  
\*Change of Frequency of SYN2

5.091

22:37 2Feb JSR G92, 16:58 3Feb JSR G77, 21:44 5Feb JSR G64, 22:04 5Feb JSR G65, 21:32 6Feb JSR G64+G?,  
22:33 7Feb JSR G18, 19:58 9Feb JSR2 Nil, 21:02 14Feb JSR G26, 21:03 15Feb JSR G26,  
21:39 22Feb JSR G26+G41+G26, 22:00 22Feb JSR G46, 22:03 24Feb JSR G46,

5.170

00:48 1Feb VLB2 Nil, 22:48 2Feb VLB2 Nil, 21:57 4Feb VLB2 Nil, 22:08 5Feb VLB G27, 23:50 5Feb VLB2 Nil,  
20:12 15Feb MIW2 Nil, 20:48 15Feb VLB2 Nil, 23:46 16Feb VLB2 Nil, 22:48 19Feb VLB2 Nil, 20:49 22Feb VLB  
Nil,  
21:57 24Feb VLB2 Nil, 22:49 28Feb VLB2 Nil,

5.230

23:20 4Feb MIW2 Nil, 21:20 5Feb MIW2 Nil, 21:23 6Feb MIW2 Nil, 23:19 25Feb MIW2 Nil,

5.339

00:50 1Feb CIO2 Nil, 01:46 2Feb CIO2 Nil, \*21:04 3Feb CIOA4M2C4 Nil, \*\*21:16 3Feb CIO G46, 21:17 4Feb  
CIO2 Nil,  
21:21 5Feb CIO2 Nil, 21:11 6Feb CIO2 Nil, 22:50 13Feb CIO2 Nil, 20:47 15Feb CIO2 Nil (//4.360 & 3.230.)  
19:50 18Feb CIO2 Nil, 20:48 22Feb CIO2 Nil,

\*CIO with special header transmitted for approx 12 minutes nil groups.

\*\*CIO active again, repeated same group message (G46) 3x's with no breaks

5.435

01:34 2Feb ART G96, 23:00 3Feb ART2 Nil, 21:42 5Feb ART G65, 00:03 6Feb ART G25, 23:02 6Feb ART2 Nil,  
22:32 7Feb ART2 Nil, 21:03 9Feb ART2 Nil, 21:29 9Feb ART G17, \*22:00 9Feb ART1 Nil, 22:27 9Feb ART2 Nil,  
00:03 14Feb ART G67, 21:01 14Feb ART2 Nil, 21:31 16Feb ART G70, 23:01 19Feb ART2 Nil,  
20:48 22Feb ART G112, 00:03 24Feb ART G67, 22:02 24Feb ART2 Nil, 23:00 25Feb ART2 Nil,  
23:01 28Feb ART2 Nil,

\*Change of C/S, but reverted back to ART2 at 22:27hrs

Between the period 21:03 to 22:30hrs ART became very active changing C/S from ART2, ART, ART1 and back to  
ART2 again, all on the same freq and only one group message.

6.270

23:00 11Feb ULX G11+G27, 20:58 16Feb ULX2 Nil, \*22:34 18Feb ABC Nil, 23:00 18Feb ULX G60,  
22:29 19Feb ULX2 Nil, 22:58 19Feb ULX G60, \*\*23:31 19Feb FTJ G18 (// 4.461), 21:00 22Feb ULX2 Nil,  
22:02 24Feb ULX2 Nil, 22:59 24Feb ULX G54+G8, 22:31 25Feb ULX2 Nil, 23:02 25Feb ULX G54,  
22:31 26Feb ULX2 Nil, 23:03 26Feb ULX G54+G8, 23:00 28Feb ULX G69,

\*Last heard by me on the 13 Jan 02. ABC made a welcome return on a different freq, previously on 5.170 /  
5.230/6.428

\*\*Change of Freq for FTJ, normally on 4.461. Some other C/S currently on this freq are- ABC. ULX. ULX2

6.575

\*21:37 6Feb HNCZ Nil, 21:18 8Feb HNCI Nil, 23:47 9Feb HNC1 Nil,

6.575 21:37hrs 6Feb HNC Z

\*HNCZ, a possible rare call sign to pick up. This was also heard on the 8 Feb at 21:18 hrs as HNC I and also on the  
9 Feb at 23:47hrs this time as HNC 1. All on the same frequency of 6.575 and no group message was sent.

6.912

23:16 4Feb KPA2 Nil, 23:18 5Feb KPA2 Nil, 21:18 6Feb KPA2 Nil, 20:17 15Feb KPA2 Nil,  
18:15 18Feb KPA2 Nil, 22:18 19Feb KPA2 Nil, 23:17 25Feb KPA2 Nil,

6.930

00:52 1Feb VLB2 Nil, 01:49 2Feb VLB2 Nil, \*22:48 2Feb VLB2 Nil, \*\*21:48 5Feb VLB G27, 22:33 6Feb VLB2  
Nil,

22:39 7Feb VLB2 Nil, 19:44 18Feb VLB2 Nil, \*\*\*23:16 28Feb MIW2 Nil,

\*Again transmitting on two frequencies at the same time [6.930 + 5.170]. This seems to be the practice even with no  
group messages to send.

\*\*Although starting at different times on the two freq.'s [6.930 + 5.170]VLB repeatedly sent G27 message, ending  
up with both freq.'s sending the same message at the same time.

\*\*\*Change of Frequency of MIW2

7.918

01:36 2Feb YHF G14, 22:36 6Feb YHF2 Nil, 01:32 11Feb YHF G14, 18:04 16Feb YHF G61+G71,  
18:02 18Feb YHF G69+G86,

9.130

\*18:54 2Feb EZI G89, 18:59 2Feb EZI G89, 21:30 5Feb EZI G10, 21:32 10Feb EZI G70,

\*Suddenly stopped transmitting after first two groups of five letters. Recommended at 1859hrs but on lower signal strength was swamped by background noise possible jamming?

#### GENERAL COMMENTS

The month of FEB 02 as heard in Dartford qth proved to be quite good, with a number of the lesser-heard stations being picked up, mainly during the mid to late evening period as conditions permitted.

These ID's were: CIOA2M2C4 HNCZ HNCI HNC1 ABC ART1.

The top five most heard common ID's for the month of FEB are, 1.CIO2 2.VLB2 3.FTJ 4. JSR 5. KPA2

For whatever reason I have yet to hear KPA transmitting since when I first started monitoring in Nov 01

The honour of the smallest number group transmitted goes to ULX group 8, sent on two occasions the 24th & 26th of Feb coupled with a Group 54, maybe the same messages being resent . The longest being G112 sent by ART 22 Feb.

For The Month of March 02 in Freq/Time/Date/C/s/G order [all times Zulu]:

3.150

00:10 2Mar PCD G79, 23:33 7Mar PCD G54, 21:50 7Mar CIO2 Nil

4.015

22:47 22Mar VLB2 Nil (/5.170)

4.180

21:50 11Mar SYN2 Nil

4.270

00:02 3Mar PCD G65, 22:30 5Mar PCD2 Nil, 23:00 18Mar PCD2 Nil,

00:33 23Mar PCD G52

4.360

22:48 18Mar VLB2 Nil (Change of Freq), 23:47 18Mar CIO2 Nil, 22:47

22Mar CIO2 Nil, 22:50 24Mar CIO2 Nil

4.461

23:31 1Mar FTJ G103, 20:00 3Mar FTJ G104, 22:21 5Mar FTJ G88

19:31 10Mar FTJ G104, 19:45 11Mar FTJ G88, 23:32 13Mar FTJ G114

23:30 14Mar FTJ G8, 21:32 17Mar FTJ G101, 22:13 18Mar FTJ G85

23:03 20Mar FTJ G27, 21:12 24Mar FTJ G67

4.780

19:50 3Mar SYN2 Nil, 23:46 7Mar SYN2 Nil, \*21:54 10Mar SYND2 Nil

23:50 13Mar CIO2 Nil (Freq Change), 23:48 14Mar SYN2 Nil

21:49 17Mar SYN2 Nil, 22:48 22Mar SYN2 Nil, 22:51 24Mar SYN2 Nil

\*Another variation in the call sign this time SYND2 a first for me. This made a change from the expected C/S one always hears. I listened in for approximately 30mins and left the frequency, the pattern staying the same nil group message.

5.091

22:10 2Mar JSR G58, 21:30 3Mar JSR G41, 22:30 4Mar JSR G58,

22:35 5Mar JSR G58,22:33 9Mar JSR G114,21:33 11Mar JSR G34

22:06 12Mar JSR G18, 22:12 13Mar JSR G67, 22:39 14Mar JSR G31

21:32 17Mar JSR G11, 21:16 24Mar JSR G84

5.170

22:51 3Mar VLB2 Nil, 21:52 7Mar VLB2 Nil, 19:49 9Mar VLB2 Nil

19:50 10Mar VLB2 Nil, 19:46 11Mar VLB2 Nil, 21:27 17Mar VLB2 Nil

21:17 23Mar VLB3 Nil /4.015 5.170 21:17 23Mar VLB3 Nil (Confirmed)

Excellent clear signal this time and can confirm VLB3. First heard on the 21<sup>st</sup> Mar but conditions were not good enough to make a positive claim. Transmission ended at 21:52 from first hearing with nil messages.

19:51 24Mar VLB2 Nil, 21:05 24Mar VLB3 Transmission ended at 21:52 with nil messages.

5.339

19:46 9Mar CIO2 Nil (//4.360//6.912), \*20:59 9Mar CIO G31 (//4.360//6.912)

19:51 10Mar CIO2 Nil, 19:48 11Mar CIO2 Nil,

23:49 14Mar CIO2 Nil (//4.360//6.912)

\*Last heard on the 3Feb 02 on 5.339. CIO came to life on three frequencies 5.339+6.912+4.360 at the same time. The complete transmission sequence was repeated twice but on the second transmit the session ended abruptly on the "Repeat" after only one block of five letters were read out.

5.435

23:36 1Mar ART G62, 19:03 2Mar ART2 Nil, 23:02 5Mar ART G44

19:37 11Mar ART G149, 21:40 17Mar ART G47,

22:07 17Mar ART G30 as well as ART G52 - Both transmissions sent at the same time and frequency. G30 first then G52 a split second after. This is the second time this has happened with ART.

22:05 18Mar ART G89, 23:03 22Mar ART G44, 22:34 24Mar ART2 Nil

5.437

18:31 10Mar ART G51, 00:32 23Mar ART G42

6.270

23:00 1Mar ULX G110, 22:03 2Mar ULX2 Nil, 21:58 7Mar ULX2 Nil

22:03 11Mar ULX2 Nil, 22:03 13Mar ULX2 Nil, 23:03 18Mar ULX G60+G17

23:04 21Mar ULX G60, 23:12 22Mar ULX G17+60, 21:03 24Mar ULX2 Nil

6.575

22:21 21Mar HNCR\* Nil, 6.575 19:55 24Mar HNCS\*\* Nil

\*Last heard in Feb on three occasions as HNC Z, HNC I, and HNC 1 all nil message

\*\*Another change to the C/S, again Nil Messages

6.912

CIO2 noticed sending on 3 parallel frequencies 4.360//5.339//6.912

23:46 1Mar CIO2 Nil (//4.360//5.339), 22:48 3Mar CIO2 Nil (//4.360//5.339)

22:42 12Mar CIO2 Nil, 21:46 17Mar CIO2 Nil (//4.360//5.339)

17:49 25Mar CIO G14 (//4.360//5.339):

CIO back on scene again. Transmitting a Group 14 message, simultaneously on 3 Freq.'s 6.912 / 5.339 / 4.360 from 17:49 to 18:52 non-stop. Nine times with no changes.

Message as follows.

PYJFB YSHHA DFIWS AWNPN ZRHUT ZXKQZ KBZFF OIPKY GBNFN

CVLIK TNDHT PPCML OVIBT UJDCC "End of message. End of transmission"

CIO CIO CIO CIO CIO

6.912 17:50 26Mar CIO

Exactly the same sequence of transmission as above entry, but with a different group 14 message.

17:59 26Mar CIO G14

6.930

01:17 1Mar MIW2 Nil, 22:20 2Mar MIW2 Nil, 20:16 3Mar MIW2 Nil

\*21:33 3Mar MIW G35, 19:20 10Mar MIW2 Nil, 21:28 11Mar MIW2 Nil

23:16 12Mar MIW2 Nil, 22:19 14Mar MIW2 Nil, 22:19 17Mar MIW2 Nil

22:18 18Mar MIW2 Nil (//5.230), 22:20 19Mar MIW2 Nil, 00:20 23Mar MIW2 Nil

18:17 24Mar MIW2 Nil ,

\*Last heard on 19Jan On 5.230 Change of frequency to 6.930

7.918

22:33 7Mar YHF2 Nil, 22:33 18Mar YHF2 Nil, 18:12 25Mar YHF G93 (Last hrd 18 Feb)

9.130

21:37 11Mar EZI G33, 22:04 13Mar EZI G74, 20:04 23Mar EZI G38

18:34 24Mar EZI G28

19.715

14:00 4Mar EZI G69

CIO2 was most busy on the airwaves saying nothing during the month, and were heard on five frequencies 7Mar 3.230 14Mar 4.780 and regularly on 4.360, 5.339 & 6.912 simultaneously. CIO is also using the last three freq. The remainder of the common c/s seem to be using their one or two frequencies, with the odd exception.

E10's rare network HNC was again heard this month, on 6.575 this time as HNCR & HNCS on the 21<sup>st</sup> & 24<sup>th</sup> of Mar but as in Feb nil messages.

VLB2 is also very much in evidence and has used six different frequencies since Nov01 these being 7.065 6.930 5.170 4.780 4.015 4.360. I have not heard VLB since 05Feb. VLB3 was heard on the 23<sup>rd</sup> & 24<sup>th</sup> of this month on 5.170 at around 21:00hrs, but true to form no messages.

Top five senders CIO2 MIW2 VLB2 ART JSR, Longest Message ART (149)

Shortest Message FTJ (G8). ©BMDartford [Tnx BM].

C adds these thoughts : "Activities continue and some of the Low Traffic Stations seem to be active. CIO was noted on SAT February 2nd at 2052z on 4360kHz sending CIOA2C2M4 //5340 kHz. CIO was also heard on THU April 4th at 1839z on 6912kHz with a repeating loop message of just 16 groups. KPA has also been active with short messages and I recently noted PCD on 6498kHz at 1900z under severe QRM of an 'XJT' transmission, I did think PCD had left this particular frequency." [Tnx C]

#### E11

With its simplistic message one would have thought E11 would commence on time. Shoddy preparation was noticed by the monitors as E11 was late on parade at the beginning of March. [Give the op. a 252]!

10125kHz	0800z	07/03 [232/00]	
	0800z	21/03 [232/00]	
	0800z	04/04 [232/00]	finished at 0807z [Another late start? Another 252? Lodp ?].
	0800z	25/04 [232/00]	
11116kHz	0801z	01/03 [232/00]	finished at 0806z
	0800z	08/03 [232/00]	
	0800z	22/03 [232/00]	Strong hetrodyne on sig at 0803z.
	0800z	05/04 [232/00]	
	0800z	26/04 [232/00]	

#### E17

9142kHz	0210z	14/03
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#### G04

PLondon reports this station as:

4850kHz	2135z	07/03 [Achtung x2 84821...]
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A sound sample [.wav] was placed on the Group site.

Observations made on Sunday 11/03 did not reveal any G04 activity between 2000 and 2200z resulting in the station being marked up as NRH for that day.

Freqs previously reported as follows [Date: 2105z freq 2135z freq]:

01/00:3440 3340,02/00:3920 3820,03/00:4520 4420,04/00:5210 5310,05/00:4830 4930,06/00:5220 5320,  
07/00:5360 5460,08/00:5320 5420,09/00:4760 4860,10/00:4580 4680,11/00:4270 4370,12/00:4110 4210,  
01/01:4120 4220,02/01:4280 4380,03/01:4750 4850kHz.....not reported since.

Any observations made in April should take into account the time change to 2005/2035z

NOTE: Freq used 03/2002 same as that recorded for 03/2001.

G04 was reported via group by DofKent and AF in April on the First Thursday as:

5210kHz	2000z	04/04 [AM ending 2017z]
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5310kHz	2030z	04/04 [AM ending 2047z] Good Strong Signal per DofKent.
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Above sending was also reported by JoA/AnonUK and, by pager, Angus of Strathclyde.

E2k notes that it is 5 mins earlier on both slots for April, but virtually obeys its previous time change history to ensure it is sent at same time. [As March's observation April's frequencies match those used during April 2000]. Certainly looks as though G04 is a first Thursday of the month station and that May's freqs could be 4830/4930kHz. **FIRST THURSDAY IN MAY IS 2<sup>nd</sup> May!**

#### G06

The G06 German YL schedule continues on the first Monday of the month although I could not find it on the first Monday in March (4th); I wonder if anyone reported it? It was on the next day with a full message transmission, a next day repeat being usual for this one when a full message is sent. Both transmissions were strong signals and stuck out like the proverbial sore thumbs. This G06 has broken the routine of showing up on the same frequency

as used in the same month a year earlier which makes finding it a bit more difficult; even so I cannot understand how I missed it on Monday. The transmission on the first Monday in April was no problem to find although the frequencies of both sendings were not the same as those used in April last year. The Friday 1930z G06 appeared on the 15th and 29th of March with a crafty change of frequency on the 29th which almost fooled me. By the way I have never been able to find a repeat of this Friday Fraulein, not an hour earlier or an hour later or on the Thursday before or the Saturday after which is not the usual routine for this family of stations.

1-Mar-02, Friday 1930 UTC, or rather 1929 and 20 seconds because it started early, 4,792 kHz, G06 German YL. Surprised to find the Friday Fraulein on this frequency because in March last year she moved to 5,444 kHz. Carrier was up at 1842z, numbers 1 to 9 in German repeated several times and several minutes of audio tone to warm the frequency up. Call "Vier drei sechs", DK/GC "Funef acht acht" x 2, "Vier sieben" x 2, strong signal with lower sideband well suppressed. Ended 1944z

4-Mar-02, Monday:- I could find no trace of the first Monday in the Month G06 German YL; I expected her to show up at 1900z on 9,050 kHz, repeated 2000z, 7,610 kHz because these were the frequencies used in March last year. I also tuned up and down the band in case she was on another frequency but found nothing!

5-Mar-02, Tuesday 1901 UTC, 8,035 kHz, G06 German YL; not on her expected frequency, I wonder how I missed this yesterday. This was a very strong signal, impossible to miss. Call - up already in progress when tuned in, "Drei null acht", DK/GC "Funef vier sieben" x 2, "Eins sechs" x 2, short message, perhaps the shortest ever from G06. Ended 1907z with DK DK GC GC and 5 x "Null", lower sideband suppressed.

2000 UTC, 6,785 kHz, repeat of G06 "308" and "547 547 16 16", carrier with tone noted 1950z.

15-Mar-02, Friday 1933 UTC, 5,445 kHz, Friday G06 German YL; she has shifted frequency - was on 4,792 kHz when last heard on 1-March but has now moved to similar frequency to that used in March last year. I had been tuning around 4,792 and had just made a note in the log to the effect that there was no sign of G06 when I decided to check 5,445 - and there she was calling "Neun vier sieben"; must have started late as the DK/GC was not reached until 1935 and 30 seconds, "Drei sechs acht" x 2, "Vier neun" x 2, strong signal with lower sideband well suppressed.

29-Mar-02, Friday 1929 UTC, 5,446 kHz, the Friday night G06 German YL; started a minute early according to by MSF Rugby controlled clock! Carrier was on at 1847z calling a few numbers in German; the voice here was higher pitched and faster than usual, like a tape running fast. When the transmission began the voice was normal in pitch and speed of delivery. Calling "Neun vier sieben", DK/GC "Drei sechs acht" x 2, "Vier neun" x 2 - same as when last heard on Friday 15-Mar-02. Strong signal, lower sideband suppressed.

1-Apr-02, Monday 1900 UTC, 8 PM BST, 9,220 kHz, the first Monday in the month G06 German YL. "Drei null acht" x 3, "Null" x 5, a four minute "No message" transmission, strong signal, lower sideband well suppressed - but when LSB mode was selected on the receiver there were Morse key clicks - could also be heard with the RX in AM mode, but not USB; these were very fast like M24 CW

2000 UTC, 7,680 kHz, second sending of G06 "308 308 308 00000". Very strong signal, carrier with tone noted a few minutes earlier, none of the key click breakthrough noted on the first sending. The Monday G06 no longer turns up on the same frequencies used in the same month a year ago; the schedule in April 2001 was 1900z, 11,040 kHz and 2000z, 9,151 kHz ©PoSW

#### G07

Another oddity - the G07 voice was noted on FRI March 15th at 1855z on 5445 kHz sending a continuous count from 0 to 9, the transmission cut off at 1901z and no message followed? [Tnx C]

5445kHz      1855z    15/03 [ 0 to 9 count ending 1901z]

#### S04

3373kHz      2245z    11/02 [342-nr222gc128=47175]  
                 2245z    12/02 [342-nr222gc128=47175]

3868kHz 2245z 11/03 [nr223gc38=81817]  
2245z 12/03 [nr223gc38=81817]

### S06

5750kHz 2215z 25/02 [null msg 624]  
12210kHz 1800z 09/03 [AM 351-207/64 04576 full carrier]  
14620kHz 1700z 09/03 [AM 351-207/64 reduced carrier]

For April AnonUK informs us of:

13420kHz 0700z 10/04  
729 R4 145 145 3 3 44111x2 56778x2 74572x2 145 145 3 3 00000  
with its peculiar 3 group message and the same at 0700z on 24/04.

PoSW's complete S06 log reads as follows:

18-Feb-02, Monday 2236 UTC, 5,760 kHz, S06 in progress, good signal, lower sideband well suppressed, ended just after 2243 UTC with "Dva shesht vosyem" x 2, "Pyat tri" x 2 and 5 x "Noll". Same frequency was noted active on Monday 4 - Feb.

19-Feb-02, Tuesday 2230 UTC, 5,760 KHz, S06 calling "Syem cheteria deviet" - i.e. "749", DK/GC as yesterday, "268 268 53 53".

3-Mar-02, Sunday 1543 UTC, - unusual time to find S06 out and about - 9,065 kHz, call - up in progress, must have started at 1540z, "Tri cheteria deviet", then DK/GC "Adean null shesht" x 2, "Dva dva" x 2. Signal strength about S7, lower sideband well suppressed, ended 1549z.

4-Mar-02, Monday 2130 UTC, 8,150 kHz, the first and third Mondays in the month seem to be a regular slot for S06. Calling "Dva syem tri", DK/GC "Cheteria adean deviet" x 2, "Pyat shesht" x 2, strong signal, lower sideband suppressed, carrier with tone noted warming up the frequency at 2117 UTC. Ended 2144z with DKDK GCGC and 5 x "Noll"; carrier did not go QRT but stayed on and an E06 English Man transmission started up on 8,150 kHz at 2200z.

2230 UTC, 6,970 kHz, a repeat sending of "273" and "419 419 56 56", close to the broadcast station on 6,973 kHz - which puts a good signal into the UK in our evenings, sounds like Hebrew so assumed to be Israeli and plays local music together with British and American rock - resulting in a high pitched heterodyne.

5-Mar-02, Tuesday 2130 UTC, 8,150 kHz and 2230 UTC, 6,970 kHz, the next day repeats of yesterday's "273" and "419 419 56 56".

9-Mar-02, Saturday 1700 UTC, 14,620 kHz, carrier noted a few minutes earlier, S06 calling "Tri pyat adean", then DK/GC "Dva null syem" x 2, "Shesht cheteria" x 2. Strong signal, peaking over strength S9, lower sideband well suppressed.

1800 UTC, 12,210 kHz, repeat sending of "351" and "207 207 64 64". There seems to be an S06 schedule on the second and fourth Saturdays in the month so should turn up again on 23 - March.

12-Mar-02, Tuesday 2130 UTC, 10,205 kHz, S06 Russian Man with what turned out to be a two message transmission, although the first was very short! Calling "Syem dva shesht", then DK/GC "Adean null tri" x 2, "Dva" x 2, - a message consisting of two 5F groups! - which were;-

Adean adean adean adean adean x 2; null null null dva deviet x 2;

followed by DKDK GCGC, then called "Syem dva shesht" again for a minute or so followed by "Adean tri cheteria" x 2, "Pyat null" x 2 and the second message. Very strong signal with lower sideband suppressed, carrier with tone noted 2117z.

2230 UTC, 7,720 kHz, a repeat of the earlier "726", DK/GC "103 103 2 2" and the first message, "11111 11111 00029 00029", followed by DK DK GC GC and "726" repeated for a minute and "134 134 50 50" and second message.

23-Mar-02, Saturday 1700 UTC, 14,620 kHz, as noted on Sat. 9 - March, call "Tri pyat adean", DK/GC "Cheteria deviet null" x 2, "Pyat dva" x 2, strong signal with lower sideband suppressed, carrier with tone noted 1647z.

1800 UTC, 12,210 kHz, repeat sending of "351" and "490 490 52 52", slightly weaker than the first sending

8-Apr-02, Monday 2115 UTC, 10,860 kHz, S06 Russian Man with "Adean vosityem null" x 3, "Noll" x 5. Strong carrier with tone noted just after 2110z but signal became weaker by the start of transmission. Lower sideband well suppressed, stopped a few seconds after 2114z.  
 ©PoSW [TnxPOSW]

S10E

As expected came up on Monday 11<sup>th</sup> March:  
 10642kHz 1300z 11/03 Good strong sigs.  
 1300z 12/03 Good strong sigs  
 Next scheduled appearance expected on 8<sup>th</sup> April was heard as:  
 10642kHz 1300z 08/04 Good strong sigs.  
 DofKent informs us that the next appearance should be 6<sup>th</sup> May.

S11A

8186kHz 0800z 22/04  
 11100kHz 0945z 26/02 [501/35]

S17

After its discovery by AnonUK on Thursday 21/02 [page20 NL9] DofKent likewise reported hearing S17 the very next day, Friday 22/02.  
 On Thursday 28/02 a series of rapid tones were heard prompting DofKent to contact e2k immediately. The observations were [[Cz/YL/3+5fig]:

7809kHz	1053z	28/02	rapid tones
	1055z		770 51991
	1057z		rapid tones
	1058z		770 96273
	1100z		rapid tones
	1101z		770 32698
	1103z		rapid tones
	1104z		770 49465

Further tones around 1118z and another sending of groups were not heard on 7809kHz [on 28/02] until 1255z. [tfb = rapid tones followed by].

	1256z	tfb	133 28227
	1258z	tfb	133 68492
	1301z	tfb	133 43067
	1304z	tfb	133 37548
pause until	1314z	tfb	438 34557
	1317z	tfb	438 68532
	1320z	tfb	438 20796
	1323z	tfb	438 45468
pause until	1334z	tfb	435 46553
	1337z	tfb	435 29167
	1340z	tfb	435 00668
	1343z	tfb	435 53576
	Transmission ceased 1346z		

Observations by DofKent on Friday 01/03 produced this log from 7809kHz:

	1018z	tfb	688 59897
	1022z	tfb	688 55719
	1025z	tfb	688 54235
	1028z	tfb	688 12774
pause until	1033z	tfb	351 11036
	1036z	tfb	351 04624
	1038z	tfb	351 35159
	1041z	tfb	351 55047

[3x 351 35159 or 351 59]

pause until      1056z   tfb      401 21511  
                     1059z   tfb      401 62184  
                     1103z   tfb      401 20925  
                     1106z   tfb      401 37083

pause at 1108:30z

1110z rapid tones 7s only -finish signal [?] Nothing further heard Off watch 1300z 01/03  
 Saturday 02/03 to Wednesday 06/03, On watch 1000 to 1200z with NRH.  
 Despite continual monitoring the signal remains NRH to date. Change of freq, propagation matters, QRT or just  
 sending in a different direction? ©DofKent [TnxDoK]

The S17 format suggested a weekly schedule occurring on Thursdays and Fridays starting around 1015z and  
 possibly again at 1250z with message groupings of 4 sendings, to three recipients daily [01/03 being 688, 351 and  
 401]. That gives a transmission of 12 actual messages. The actual sendings are preceded by a series of rapid tones  
 and it would seem to end its schedule with rapid tones, the length of transmission being somewhat shorter [?].  
 Whilst the spoken ordinals are of 'Slavic' origin the accent is somewhat different to that heard on S10E and S17C.  
 To learn more of the station's possible location we need to identify the varied inflections. The signal strength is fair  
 to good in the SE of England.  
 [Thanks to DoK for his Cz expertise and to AnonUK for finding this stn and supplying his log of initial results].

Monitors did not hear S17 come up on 07/03 or 08/03. All that was heard on 08/03 was a very strong carrier. [This  
 carrier appears to be present daily, as does some side-splatter from Radio China [?]

#### S17C

9165kHz      1250z   26/02 [313 95035]  
                     1250z   28/02 very poor signal strength, Central London.

As from 01/03 DofKent discovered that S17C had returned to its old haunt of 8190kHz

8192kHz      1250z   01/03 [99034] Strong solid AM signal.  
                     1250z   09/03 [90634] Fair AM Signal [PLondon]  
                     1250z   12/03 [99037] [99036 sent by M10E as identifier at 0900z on 5020kHz 12/03]

The signal from this station was on USB on 10/03 and was a very poor signal. The USB signal on 11/03 was very  
 strong. This variation of strength has been noticed before and suggests that this signal is directional and intended for  
 different areas. Has anyone discovered a second freq yet?

#### V02

Reports from US are:

7872kHz      1017z   02/03 Single Groups  
 7887kHz      0237z   12/04 poor signals  
 8678kHz      0200z   27/03 [AM In progress]  
 8752kHz      0500z   17/03 [AM "0550...0550...0550]  
 9230kHz      1000z   18/03 [63803]

Whilst our own PoSW in GB heard the following:

28-Feb-02, Thursday 0636 UTC, 8,097 kHz, V02 Spanish YL in progress, strong signal.  
7-Mar-02, Thursday 0637 UTC, 8,097 kHz, V02 Senorita from Cuba, very strong signal.  
13-Mar-02, Wednesday 0704 UTC, 9,063 kHz, V02, transmission in progress with utility QRM  
21-Mar-02, Thursday 0636 UTC, 8,097 kHz, usual Thursday V02 Spanish speaking YL, strong signal.  
28-Mar-02, Thursday:- there was no trace this morning of the V02 Spanish YL around 0630z on  
 8,097 kHz; this has been a fair to excellent signal right through the winter months and into  
 spring but today for the first time there was not the slightest sign.  
29-Mar-02, Friday 0704 UTC, 9,063 kHz, V02 Spanish YL, turns up on Good Friday with a strong  
 signal.  
31-Mar-02, Sunday 0725 UTC, 6,837 kHz, V02 Spanish YL in progress, good signal, up to strength  
 S9, slight crackling noise, ended 0732z with 3 x "Finale"  
 0808 UTC, 9,230 kHz, V2 again, weaker than earlier sending and with background buzz. Ended  
 0812 UTC with 2 x "Finale". The carrier, complete with buzz, stayed on until 0842z.

4-Apr-02, Thursday 0536 UTC, 8,097 kHz, and again starting up just after 0600 UTC, V02 Spanish YL with a very strong signal; I don't know why she was absent last Thursday. ©PoSW

#### V02A

4028kHz 0300z 16/03 in USB  
5417kHz 0200z 23/03 very poor sigs, odd nos heard only. [PLondon].  
6825kHz 0900z 12/03 in AM

#### V07

14387kHz - large carrier [S9 with PoSW] heard just before 0600z morning of Tuesday 16/04. On the hour, "Tres cero cuatro" x3 'Uno' then dk/gc ending at 0615z.

0600z 14387kHz 16/04

Two further sendings occurred that day:

0620z 16087kHz, Strong signal with a slight heterodyne from a nearby carrier.

0640z 17487kHz, Strong signal, inside a broadcast band with BC QRM.

PoSW observed that V07 used to have a regular schedule based on Tues/Thurs. PoSW checked 0600z 14387kHz and was aware of a poor carrier, due to propagation, and was unable to make a positive identification. PoSW asks for help with this Spanish station ending with 000 000.

AnonUK contacted E2k 23/04," Can confirm V07 Tuesday 0600 on 14385, 0620 on 16085, Call 304 Null message. I expect third frequency to be 17485kHz." [Tnx Anon].

Note: Call of 304 contains, in order, the third number of the freqs employed by V07.

#### V08

The V08 Arabic YL showed up on the first Saturdays in both March and April on 6,647 kHz; it shifted by an hour with the start of British Summertime so that in April it still started at 7 PM BST UK time. [1800z]

6647kHz 1900z 02/03

\*6647kHz 1800z 06/04 [S9+20, from 1813z occ break up (loss of voice, not carrier) and CW dashes. ended circa 1814z, long TX. No music intro, new music end. Carrier up from 1540z, down at 1818z. NRH 11292kHz [Tnx MikeofKent].

PoSW adds further info on the Arabic station:

2-Mar-02, Saturday 1900 UTC, or just after, 6,647 kHz, V08 Arabic YL, I last heard this one on Saturday 2 -Feb - 02; carrier with tone noted 1849z, stopped after 1900 followed by the usual Middle Eastern music and then the YL voice. Strong signal but audio level somewhat low. Finished 1911z with more music for a minute or so, carrier with that "High cycle" alternator whine stayed on until QRT just before 1015z.

\*6-Apr-02, Saturday 1800 UTC, 6,647 kHz, the V08 Arabic YL; last heard Saturday 2 - March; the "Attention 123" column in this month's Short Wave Magazine says this one appears on the second Saturday of the month, but it looks as if it ventures forth on the first Saturday. It has shifted by an hour with the start of summertime so it turns up at the same local time - 7 PM in the UK.

Very strong signal, carrier with audio tone noted a couple of minutes earlier, started exactly on the hour with the usual Arabic music which was very faint. The YL voice was at normal level although a bit clipped and distorted at times. The voice stopped just after 1814z followed by the music for a minute or so, this time at normal level, until approx. 1815z; 30 seconds.

Carrier with faint "High cycle" power supply whine stayed on until QRT just before 1819z.

©PoSW

V21

6529kHz 0051z 20/03

XP

Further to the correction of the XP[H] designation we offer this insight as to our thinking:

The Tues/Thur that we listen to uses tones of 305, 321, 337, 353, 369, 385, 401, 417, 433, 449, 465, 481, 497 and 513Hz. Originally this was thought to be XPH because a similar transmission using lower tones had been heard and designated XPL.[A test transmission from the same family as M10E and S10E. They alternated daily between RTTY, CW and XPL]. The current Saturday transmissions have higher tones [measured by AnonUK] as 814, 844, 879, 954, 992, 1038, 1089, 1143, 1202, 1234, 1271, 1304Hz.

From the XPL sample sent in by AnonUK E2k were able to measure freqs used as 327, 332, 356, 359, 386, 391, 416, 426, 442, 456, 480, 496Hz. The low freq sounds heard are believed to be the product of more than one tone sent between 322 to 582Hz [much like the tones produced by the telephone tones].

One can easily see the predicament here as we try to maintain a separation between the different frequency polytone stations.

February 02 freqs.

0700z 14890kHz 01/02	05/02 08/02 12/02 <b>15275</b> kHz NRH	19/02 22/02 26/02	-
0720z 15790kHz 01/02	05/02 08/02 12/02 <b>16475</b> kHz	15/02 19/02 22/02 26/02	-
0740z 16290kHz 01/02	05/02 08/02 12/02 <b>17475</b> kHz	15/02 19/02 22/02 26/02	-

2100z 7967kHz 01/02	<b>7527</b> kHz 05/02 NRH	12/02 >>>>>>>	NRH 19/02 NRH*26/02 28/02
2120z 6744kHz 01/02	<b>6766</b> kHz 05/02 NRH	12/02 >>>>>>>	NRH 19/02 NRH*26/02 28/02
2140z 5394kHz NRH	<b>5152</b> kHz 05/02 NRH	NRH >>>>>>>	NRH NRH NRH* NRH NRH

Note that last scheduled transmissions were on 28/02 for 21nn slots.

Note that from 14/02 Friday changed to Thursday, XP now due on Tues/Thurs.

March frequencies have indeed changed (-2kHz from those stated on group).[JoA/PLondon] :

0700z 13548kHz	01/03 05/03 08/03 12/03 15/03 19/03 22/03 26/03	
0720z 14948kHz	01/03 05/03 08/03 12/03 15/03 19/03 22/03 26/03	
0740z 16248kHz	01/03 05/03 08/03 12/03 15/03 19/03 22/03 26/03	<u>ID 592</u>

2100z 9140kHz	-	05/03 07/03 12/03 14/03 19/03 21/03 26/03
2120z 7610kHz	-	05/03 07/03 12/03 14/03 19/03 21/03 26/03
2140z 6840kHz	-	NRH 07/03 12/03 NRH NRH 21/03 26/03

ID 168

On 05/03 the 0740z freq was plagued by a SuperDARN [Grasshopper] like transmission. The XP carrier was strong enough to obviate this.

The evening slot freqs were different from the expected 9540/7610/4582kHz and it appears that freq changes are occurring each month.

Other scheduled XP courtesy AnonUK/JoA:

2110z 10970kHz	01/03 05/03 12/03 22/03 26/03
2130z 9475kHz	01/03 05/03 12/03 22/03 26/03
2150z 8120kHz	01/03 05/03 12/03 NRH NRH

ID 941

The late XP March schedule hinted at was heard by PoSW:

2220z 13378kHz,	2240z 11578kHz,	2300z 10178kHz;	on Tuesdays and Thursdays in March.
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Are there other like transmissions throughout the year also?

April Freqs per AnonUK, JoA, PLondon

0600z 11083kHz 02/04 05/04 09/04 12/04 16/04 19/04 23/04 26/04  
0620z 12183kHz 02/04 05/04 09/04 12/04 16/04 19/04 23/04 26/04  
0640z 13883kHz 02/04 05/04 09/04 12/04 16/04 19/04 23/04 26/04  
ID018

2000z 12180kHz 02/04 04/04 09/04 11/04 16/04 18/04 23/04 25/04  
2020z 10970kHz 02/04 04/04 09/04 11/04 16/04 18/04 23/04 25/04  
2040z 94nnkHz NRH NRH NRH NRH 16/04 18/04 NRH NRH  
ID194

Other scheduled XP courtesy AnonUK/JoA  
2010z 14890kHz 02/04 05/04 09/04 12/04 16/04 19/04 23/04  
2030z 13420kHz 02/04 05/04 09/04 12/04 16/04 19/04 23/04  
2050z 11580kHz 02/04 NRH 09/04 12/04 NRH 19/04 23/04  
ID845

### XPH

March Saturday XPH was sent as:

1230z 21862kHz 02/03 09/03 16/03 23/03  
1250z 20432kHz 02/03 09/03 16/03 23/03  
1310z 18912kHz NRH NRH 16/03 NRH  
ID 357

Listed by both PLondon, PoSW and AnonUK 02/03, Anon made this valid comment, 'Null Message. Tones so far 1304 Space, 1234 0, 992 Repetition. If the ID is going to be the same figures as the frequencies it will make tone 879 8 and tone 954 4. But this will mean the figures do not run in a sequence of tones.'

Following on from his work outlined above AnonUK has been able to allot numerical or functional values to the nominal frequencies used within XPH:

1304 Space

1234 : 0, 814 : 1, 844 : 2, 879 : 3, 914 : 4, 954 : 5, 1038 : 6, 1089 : 7, 1143 : 8, 1202 : 9,

992 : Repeat, [1271 Unknown]

1271Hz remains a mystery for the time being; if anyone has any suggestions as to its function we would be grateful to hear about it. [We suspect a separator to keep decoders active whilst no message is being sent].

Using the above tones one can easily see that the ID for February is 639 and March is 357.

Not only has AnonUK allotted these values/functions but has also proved what appears to be a rather tenuous link with the Morse station M12.

XPX also sends a preamble the same as M12, DK and GC. The March one is 805 Space 131 Space 805 Space 131. It suggested a 131 group message; AnonUK later confirmed the XPH message had 131 groups. [Well done AnonUK].

April's 'known' schedule not yet fully heard. Has propagation seen this station off or is it a totally new schedule? If anyone discovers the new times/freqs please contact E2k via the usual route - tnx.

First report came via JoA:

19857kHz 1130z 13/04 -- believed to be a 3 min transmission.

Since that initial hearing e2k monitors have been unable to discover any mid-morning/early afternoon sendings of XPH.

PoSW makes a rather valid comment, "probably also on Tuesdays." He backed that remark up with a later message, "The full schedule of the Saturday and Tuesday evening XPH polytone transmission is: 1830z 14837kHz, 1850z 13372kHz, 1910z 11648khz. The 1910z sending is prone to BC station QRM but can just be heard with Rx in LSB mode." Excellent work PoSW!

AnonUK monitored the evening sendings on Saturday 20/04, and using his previously derived table of tones found the call up to be 836; the third letter of each frequency. [1910z was believed to be NRH].

AnonUK observed that since we have monitored XPH the call up has not sent this info before. Unless of course it is the evening sendings which are important and the lunchtime sendings reflected that by transmitting the 3<sup>rd</sup> letter of each freq used in the evening.

### XPL

This rare station [rare to these columns anyway!] was heard by E:

5784kHz      2121z    29/01

[E, If you have a recording of this oddity could you please send to e2k for some tone analysis work to be carried out]?

### ODDITIES

Firstly we start with a open carrier reported by E. He writes, "7880.5kHz 0925z Fri 15/03. Open carrier, Nothing heard. Often here." E asks, "Does anyone know what this one is?" Answers via e2k for E please.

Now an UNID pulse from JofAylesbury:. These have been heard again on 29/03 & 30/03 and appear to be continuous: At three minute intervals, twenty per hour, the first in the hour being H+01:34 the last being H+58:34 The timing is accurate. The signal starts with Three tones at the 34s points and last 10 secs [beginning of first tone to end of third tone]. After an interval of 6 secs, two buzzes total time 6 secs. The entire performance lasting 22 secs can be heard on 11116kHz, USB, daily at most times.

A change was noticed by JoA on 11/04 in a slightly later start time from H+01:34 to H+02:04 and finishing H+02:26, having maintained the 22s transmission length. The last now being at H+59:04

On 26/04 JoA contacted e2k with a further development; Unid: 3T2B/1T2B: 11116kHz: The unidentified 'Three tones + two buzzes' has now changed to 'One long tone followed by two buzzes.' The long tone lasting 10 seconds, followed by a 6 second pause, then two buzzes lasting 6 seconds. The total time being 22 seconds, as previously.

Monitored as follows: 0659:04 - 0659:26, 0702:04 - 0702:26, 0759:04 - 0759:26, 0802:04 - 0802:26 QRM: E11 "232/00", 0805:04 - 0805:26 (F. 26/04/02).

[JofAylesbury].

A change of transmission now as C sends more observations on the Slow Polytone station:

SLOW POLYTONE - This was mentioned on Page 26 of issue 9, I noted it back on FRI Jan 11th at 2040 to 2100z on 5267kHz. Oddly I heard it again on TUE March 12th at 1851z on 10132 kHz, much clearer but very short transmission. It is out there somewhere !

10132kHz      1851z    12/03 [Tnx C]

### BACKWARDS MUSIC STATION (XM)

'Backward Music Station' still around, noted recently on 4084 and 8972kHz, strange how this particular signal always manages to avoid those XJT 'Jet Signals'. [Tnx C].

Others have also commented that other transmissions, just like XM, also seem to avoid XJT which appears to pop up just where it likes, or does it?

4084kHz      2000z    08/02

8972kHz      1941z    21/02

### CRACKLE(XC)

This peculiar sounding signal has been reported for 2002 by 'C' as being heard, during the evening, on 5495 and 5505kHz. 'The Crackle' an old friend was noted again on SAT 15.12.01 and is still operating in the European evening time. The Crackle on 5495 // 5505 under Shannon Air Radio, is back ! Like a dog to a lamppost it as returned to its only known frequencies - where as it been ? Still crackling away for no apparent reason. Listen while you can for hours of entertainment. Any one any ideas on this ?

Gert of Holland confirms 'C's observations by hearing XC on a Thursday evening:

5496/5504kHz    2248z    20/12

### HAARP

Tom Severt [US] reported hearing HAARP during the early morning of 17/03. At 0826z steady AM carrier on 3200kHz with a tone. Later replaced by quick dashes of the carrier on 3200kHz. At 0837z the signal moved to 5800kHz and consisted of an AM carrier with various tones.

Tom Pitts, Nevada City reported this:

3200kHz 0900z 25/03 [AM HAARP]

### JET (XJT)

These raucous sounds seem to pop up all over the place and must have an important function.

An audit made over a few days and varying times, early evening to mid-evening by JoA has produced an interesting observation. PLondon also made a mid-morning observation and like JoA has noticed that there are no 'Jets' in bands where its presence [causing QRM to other users] would really matter, those in the aero service for instance. [None in the Amateur bands either - has the RSGB bared its teeth]? Some of the 72 freqs listed below by JoA were also active in the 48 listed by PLondon, but there were also others that had become active.

XJT 25/02 Early evening:

8108 8172 8181 8286 8302 8409 8458 8476 8507 8514 8525 8593\* 8619 8634  
8674 8702

XJT 26/02 2135z -2220z:

8702  
9072 9099 9103 9204\* 9959 9983\*  
10112 10170 10266 10423\* 10560 10570 10754 10809

XJT 17/03 1900z - 2020z:

10170 10480 10560 10570 10742 10754  
11015 11457 11540  
12417 12593 12691 12714 12775\* 12863 12885  
14390 14418 14432 14727 14754 14820 14870  
16062\* 16567 16935 16945 16955\*  
17084 17108 17221  
18367 18496  
19511\* 19676\*  
20192\* 20848\* 20883\*  
21MHz. band: NRH, 22MHz. band: NRH  
23410\* 24000\*  
25191\*  
26MHz band: NRH, 27MHz.band: NRH

Frequencies marked \* indicate some slight variations:

8593 faster, 10423 faster, 12775 sl. faster, 16955 faster, 20192 faster 'pneumatic drill.'

20848 faster, 20883 faster, 23410 'pneumatic drill. 24000 fast, 25191 faint.

Others marked \* indicate only a slight variation in sound.

XJT observations from PLondon, 0950 to 1122z 16/03 [ freq, time, sig strength (9+ means greater than 9 but less than 10dB. +10 means 10dB over 9)]:

4208 1122 7, 4231 1122 8, 4266 1122 8, 4602 1121 9,  
5270 1120 9, 5293 1119 9,  
6228 1115 9+, 6241 1115 +10, 6340 1114 9, 6386 1114 9+, 6417 1113 9, 6443 1112 9,  
6475 1112 +10, 6711 1111 8, 6809 1111 9+, 6898 1111 9+  
8105 1109 9, 8111 1109 9+, 8148 1108 8, 8174 1108 9+, 8304 1107 +10, 8413 1107 +20,  
8458 1106 9,  
8514 1105 +10, 8527 1104 +10, 8631 1104 9, 8675 1102 +10,  
10265 1018 +10, 10563 1018 +10  
11454 1017 +10, 11541 1016 9+

12569 1016 +20, 12592 1015 QRM, 12660 1014 QRM, 12694 1014 +10, 12785 1014 +10, 12889 1013 9+,  
12912 1013 +20, 12984 1012 8,  
13410 1012 +30, 13920 1011 +30,  
14390 1010 +20 14753 1009 +10, 14815 1008 9,  
16436 1006 7, 16918 1005 9+, 16933 1004 +10, 16946 1004 8,  
17083 1003 7, 17139 1002 7,  
18367 1000 8, 18857 0959 6,  
19716 0957 6,  
22190 0955 6, 22239 0955 6, 22450 0954 +20,  
23200 0953 7,  
24714 0954 2.

These signals must be transmitted by the Military, who else has the facilities for antennae to deal with the above range of frequencies?

One interesting snippet comes from an E2k correspondent who remarked about XJT, " Using the yagi of a friend of mine we have found the direction to be on 300 - 310 degrees which is towards France or England. Germany is on 330 deg." [Bearings taken from the area of Greece].

Of 6230kHz 'C' adds, 'A particularly bad choice of frequency from Trans World Radio (pres. Monaco Tx) on 6230kHz at 1900z in what appears to be Russian language. Bang under an XJT, which was very strong.'

#### JAMMERS

An enquiry has been received via email concerning jammers that apparently operate circa 1630z and very strong in Athens, Greece. The freqs mentioned were: 5320, 5600, 6420, 6880, 7040, 7050, 7070, 8320, 8340, 8515, 9360, 10280, 10470 and 13410 kHz.

The answer that we received via 'C' makes interesting reading: "Most of what is mentioned is emanating from Iran, these same jammers were used against E3 (Lincolnshire Poacher) for many years, initially between 1000 and 1445z and 1800 to 2245z, with increased anti-Iranian clandestines coming on air the jamming was cut back to end at 1445 and resume at 2000z (rather than 1800) when more transmitters became available. Some time ago this all stopped, with improved (if only temporary) relations between Britain and Iran.(Wait for next war).

Iran seems determined to block anything it does not want the population to hear, some years ago (mid 90s) it purchased from the West a large number of Telefunken transmitters which were set up at Sarjan (phonetic) in central Iran, their sole purpose was not for broadcast use but to jam incoming transmissions, in times of crisis (e.g. recent elections) they were turned against BBC VOC and KOL Israel's, Persian services - although this is not the norm.

The most hated station is Voice of Mojahed National Liberation Army of Iran. This broadcasts from Iraq (I must confess that I am not sure if this is controlled by the regime or from Northern Territories). Some of these stations have been linked to MI6 and the CIA who fund them through shell operations, Of late there was talk of Radio Free Iran, a CIA station - with the ever changing scene in that area I am not sure what is happening. I did read that a transmitter had been commissioned (Collins I think) and was to be sent to a 'secret' location very soon, in order to commence transmissions. Some transmissions are sent on MW from Kuwait also.

VOM continues to grow and this is putting more pressure on the Iranian jamming network. Two VOM services operate.

VOM 1: 0225-0635 1125-1235 and 1425-1835z \* all approx. varying on 5350 5625 5665 6450 6480 7050 8315 8365 8520 8815 8865 9335 10250 10450 and 13450kHz, these jump freq. every few minutes to avoid jamming. In the UK audio is often better heard above 9MHz in the afternoon period, jammers seem quite strong most of the time.

VOM 2 : is heard 1700 to 2100z on approx. 7075 kHz and tends to stay put most of the time. This is jammed by two jammers. They hate it twice as much. A warble jammer and a transmitter sending a steady carrier, 50 Hz offset gives it a very nasty low pitch 'wine'. Just now and again the second jammer is not used, when only the warble is in use it is possible to hear the programmes, I guess 7075 is a more powerful transmitter - possibly closer to us in the UK.

It is not beyond reason to suggest these stations are engaged in intelligence related matters.

To add to the problems there is nothing short of a multitude of varying smaller clandestine - without expert (BBCMS) information it is hard for the casual listener to work out who what and where they are broadcasting to/from. Iranian jammers will seek and destroy anything they even suspect might be broadcasting against them - they have an efficient monitoring service and are not in the ITU - so don't care... Also to make matters even worse they are now using SW frequencies to send jamming signals between remote transmitters, rather like 'jamming feeds' - suggesting that more sites are in use.

China is the second largest jammer. They however, use a domestic service transmission offset on a broadcast channel (usually Radio Free Asia) to block out the audio, making it into mush, they do this so they can claim -they do not jam - it is the other station causing interference - strange Chinese logic.

Lets face it though, it did not work for the USSR and they spent millions on it for 50 years....

©'C' [Thanks C]

#### NEW PIP XT2

Heard on 2200kHz, 2207kHz, 3250kHz and 7605.5kHz, no recent reports to e2k, C also notes: "XT2 - The New Pip - Which was discussed in the last issue was noted for the first and last time (by me anyway) on 7606 kHz at 1849z on WED February 2nd. Seems to have gone very quiet recently".

#### S28 [formerly XB]

Still buzzing!

4625kHz 1838z 14/03

However E2K received this message from JimSF who related this experience:

"I was in Barcelona for vacation and had brought my shortwave receiver with me to see about listening in on some numbers stations. I came across the Buzzer at 4625hz on 27/03/02. I wanted to hear the change at the top of the hour only to catch a message instead. This was at 7:00 GMT." ©JimSF [Tnx Jim]

At the time of writing we await a .wav/mp3 from Jim to hear the message.

#### S30 [The Pip]

Continues to Pip away on 3757kHz despite mutterings from amateur radio operators on 80metres.

#### X06

E wrote in with the following for Mazeilka:

14501kHz 1235z 09/03

14934kHz 1725z 23/02

Gert heard the 6 tones on two freqs, 8097 and 9105kHz at 2035z 27/03, also being monitored by C who heard 8097kHz being utilised at 1907z on 13/03.

C also noted:

9045kHz 1904z 13/03

9080kHz 1910z 13/03

9215kHz 1849z 13/03

9235kHz 1903z 13/03

#### SLOT-MACHINE (XSL)

XSL is heard on 4233, 4292, 6419, 6445, 6466, 8555, 8589 and 8703.5kHz. USB mode

Still being heard in US, Oceania and like areas.

E2k would like to receive details of any observations made in Great Britain, Eire and Europe please.

XSL general transmission times [freqs of 8588.0//8703.5]

Sun 1600z

Mon 0900z 1700z 2215z

Tue 1510z 1530z 1600z

Wed 1400z 1500z 1545z  
 Thu 1600z  
 Fri 1450z 1600z 2140z  
 Sat 1400z 1600z 1700z

SQUEAKY WHEEL(XSW)

3828kHz continues with this marker.

3828kHz 2205z 12/03  
 1835z 14/03

TELEPRINTER 4710

Can be heard on the usual frequencies of 4710, 6702, 9000kHz, 11122kHz [daytimes] and 15020kHz [evenings].

4710kHz 2201z 12/03 [carrier idle]  
 6702kHz 2202z 12/03 [carrier idle]  
 9000kHz 2203z 12/03 [t/p active]  
 11122kHz 2204z 12/03 [t/p active]  
 15020kHz 2205z 12/03 NRH

WOPWOP(XWP)

XWP Daily schedule to date appears to be:

0600z	8034kHz	1300z	6900kHz
0700z	6818kHz	1400z	6818kHz
0800z	6900kHz	1500z	9390kHz
0900z	9390kHz	1600z	9250kHz
1000z	9250kHz	1700z	8158kHz
1100z	8158kHz	1800z	8034kHz
1200z	8034kHz		repeated through the night*

\*It would appear that the station operates 24/7 the daily freqs being the same as night freqs with the exception of 2100z being the same as 2200z. [9250kHz].

Ary states that another type is regularly on ca 6915 kHz [nothing heard by e2k to date] and guesses that XWP may come from France, or maybe SE England / Channel islands. [NL9 states a bearing 147/327 deg from London and suggested France area].

A further offering from Ary was 'The surface radar that I mentioned recently is now (13/04, 2150z) on 6813 kHz. [Again nothing heard by e2k to date].

C adds , "This is still very active see detailed report in last issue, I did however note a new frequency in the region of **13950 - 13965kHz** heard just before 1900z. This is much higher than my previous observations."

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

Thanks to AB, AF, AK, ANUER, Anon UK, AnonNI, Anon Scandinavia, AR, Ary, BMDartford, 'C', CD, D of Kent, 'E', Gert of Holland, HFD, IB, J of Aylesbury, JM, Ben Mesander, JMM, K of Kent, Lazarus[US], LP, Mike of Kent, Mark Slaten, 'P', Peter of Saffron Walden, R anon, Rob of Essex, and all others for their contributions to the Morse, Voice and Oddities columns. As ever we acknowledge information from the Spooks site.

ENIGMA 2000 ARTICLE

This Issue we welcome Simon Mason back with another interesting account:

Hello again and thanks to ENIGMA for the opportunity to write another column. This time I would like to share with you some correspondence I had with a couple of DXers from Germany. One of them sent me some very interesting recordings of old stations, including the G20 Spruch stations. He kindly answered a few questions I put to him:

Q.

**What did your friends think they (number stations) were and did they ever get spoken about in the news?**

A.

As far as I remember, my friends agreed that these stations obviously carry information not intended for the public, most probably espionage. In the beginning I asked myself why secret services should use such an obsolete procedure - reading numbers in audio over shortwave - in times of encrypted radio teletype, computers etc. until I heard the explanation that the absence of suspicious high-tech devices is vital for a spy not to be discovered, which seems evident to me.

**In autumn 1985 I zapped into a TV talk show with some expert for secret services as guest; the subject was an espionage affair in Germany in summer/autumn 1985. This was a rare case of numbers stations being mentioned and details about them made public! To my utter regret, it took me by surprise and I had no recording device handy and could only write some points in shorthand. Here are my notes in telegraphic style and translated in square brackets:**

-----

"Eiserne Jungfrau" [Iron maiden] (DFC 37, my own note) [did he mention this very station?] "Messages in groups of five numbers in the 49m band [which can be received] with a normal radio"

Secret Agent: [Has a] shortwave receiver with code table and IWOM (?) [This should be the one-time pad]

Construction of a transmission: One identification numbers group; Agent takes the corresponding set of numbers from the IWOM, calculates the difference (between the groups broadcast and the IWOM?), translates the difference with the CAESAR-letter-grid, e.g.:

6 = S

1 = H

89 = 8

94 = W etc.

-----

So this is largely identical with the description of a decryption procedure you give in your book.

I found yet another note: In the program "Top-Spione" broadcasted by ZDF (second German TV program) at November 11, 1994 the original (old) IS of DFC37 (5 tone rising scale, 5 higher tones rising scale, and vice versa falling scale) and the text "Es liegen Mitteilungen vor für..." were played. This was commented as having been a transmission by the BND (Bundesnachrichtendienst) in Pullach for their spies located in the GDR. Again, I was not prepared to record the program.

I did (and do) not read radio hobby magazines on a regular basis so that I cannot tell whether numbers stations have been mentioned in the magazines available over here.

German radio amateurs broadcast "Rundsprüche" (weekly bulletins about matters concerning HAM radio) on a regular basis (e.g. 7,099 MHz every Sunday at 11:00 local time). A remark in my logbook reminds me that the "Rhein-Ruhr-Rundspruch" reported repeatedly on a numbers station which intruded the 80m HAM radio band on 3,767 MHz and I received this station on January 16 and February, 12, 1984.

The Rundspruch dated February 12, 1984 reported that it transmits "endless groups of numbers in Czech language" "from 16:30 through 24:00 CET, which are repeated partially from 07:00 through 09:00 CET", according to my logbook. I guess this numbers station had to move soon since radio amateurs defend their frequencies fiercely... On February 18, 1984, I found the station on 3,225 MHz.

Q

Did your grandma say what they were?

A

To nearly everybody else close to me when receiving numbers stations, this was nothing but bothersome noise and not worth spending a thought on it. I only heard comments like "How can you hear this stuff? It's always the same" or "What's so interesting about it? You can't understand it anyway"

Q

Also, you said the Spruch OM did not sound German, could you say what sort of accent he spoke with?

A

Firstly, the reason for my assumption is the pronunciation of the following certain words and phonemes: "Sprüche" with U-Umlaut sounds like "Spruche" in German, i.e. the speaker does not pronounce the Umlaut correctly. All "ch" sound more accentuated (as in ch-h) and deeper in the throat than usual with German speakers. The letter "i" pronounced more like the German "j" or "y", e.g. "Drei" pronounced "Drej". The letter "e" pronounced wide open nearly like the German "ä" (a Umlaut), e.g. "Ende" as "Ändä". The text of the transmission contains something like "Tej Ein Zwo". There is no German word "Tej" and I needed some time to realize by the context that "Tej" should read "Teil" (part). If a German speaker speaks a cardinal number "1" he would pronounce it "Eins", not "Ejn" as the number station. Further, in the 5 digit groups the "1" sounds like "Ejn(e)" with a slight "e" ending sound.

So far for the unusual pronunciation, I could imagine that the speaker's mother tongue is a Slavic language, but I am no linguist. From comparisons of my logbook with your station descriptions, I found an entry for 5.447 MHz commented in my log with "Hungarian?" but now I know that it was most probably "Czech Lady"; so much on my own linguistic expertise... ;-)

I may be wrong, but I always wondered why there were so many stations using "German" numbers, even with speakers whose native language obviously is not German and with stations operated from outside (East and West) Germany. Should it be part of the "cloaking" measures, or is German - with the modifications "Zwo", "Fünnef" and "Neuen" - simply the language which allows the best distinction of different numbers?

Another German DXer provided a small insight regarding accents:

G2(Swedish Rhapsody) I've never had a problem with identifying this voice as that of a grown-up woman. I always thought that she was of East German origin, because the "o" in "zwo" sounds very much like that pronounced by people from Saxony.

G12: (NNN) I've listened very carefully to these recordings. My conclusion is: YL 1 is standard German, YL 2 and 3 are AUSTRIAN German! The numbers you cite as Yiddish, well, they look extremely German. Yiddish is a little bit different, as far as I know. Especially "fuenef" can never be pronounced with an "ue" in Yiddish because this special German sound does not exist there. In Yiddish one says something like "fin(e)f" instead, but these ladies say "fuenef". And 9 is in Yiddish "najn" (pronounced "nine") but all of the speakers say "neun" (pronounced "noin"), which is German. And YL 2 and 3 pronounce 3 as "drey" but standard is drei (pronounced "drie"), which you also find in Yiddish.

That's it for now, except that there is some exciting news- a former member of UK Electronic Counter Measures based in West Germany used to intercept "Magdeburg Annie" as his colleagues called it. He said that he has lots of old recordings and if he agrees, I will put them up on the website in the future. Until next time.

©Simon Mason [Tnx Simon].

## NEWS & ITEMS of INTEREST

Rudolf Hell, inventor of Hell-Schreiber.

He was born in Eggmuhl, Bavaria and whilst studying for his diploma at Munich Technical University had the idea of breaking up characters into points and transmitting the point as pulses to be reassembled at the receiving end. This device, marketed in 1929, was called the Hell-Schreiber. It is still popular today amongst radio amateurs, its familiar scratching sound [cats paw on sandpaper] sometimes heard in the amateur bands.

Dr Hell was fertile with the invention and development of other devices, an image transmission device, electronic engraver, colour scanner and electronic digital typesetting. He also had early input into a radio beam flight path detector, an early version of the autopilot.

He received the Grand Cross for Distinguished Service and Star of the German Federal Republic as well as the Gutenberg Prize of the City of Mainz. Dr Hell was revered in the city of Kiel and the street that leads to the Heidelberg plant was renamed Dr-Hell-Strasse in his honour.

Born 19<sup>th</sup> December 1901, died 11<sup>th</sup> March 2002, aged 100 years.

#### Office of Strategic Influence [Part 2]

Following alarm over the activities of this 15 person office and Mr Bush's interest, senior US military officials predict that the office would be disbanded or restructured.

Whilst senior Pentagon officials have endorsed the office's general mission Administration officials have pointed out that the US is losing public support for the war on terrorism, particularly in the Islamic world.

#### Lost Secrets!

The loss of the odd Laptop being reported in the press and advertisements offering rewards for "Ph.D vital research notes to be returned for a 'substantial' reward" [03/03/00] might have been seen as laughable by the public at large. Two years later the US\$310 million security operation at the 2002 Winter Olympic Games were seriously jeopardised by two secret service agents. These two agents nipped into a souvenir shop to buy a couple of hats [US\$11 each] and left behind the 'site post assignment log', which detailed movements concerning the movements by the US Vice-President. Luckily the shop owner was an honest man and handed the highly sensitive papers in. [His attempts to do so are comical].

*[There was an earlier blunder which, we are informed, occurred in 1999. Mr Clinton, then US President hurried away from a meeting leaving behind an attaché case, which held the launch codes for nuclear missiles].*

An article made available to E2k outlines the use of a BIOS stored program and password in IBM and Compaq PC's that would make the operation of lost or stolen laptops impossible. In part the article reads:

" It is an awe-inspiring deterrent to thievery and very valuable as a means of guarding corporate data. If MI5 or the army used systems like that, it would matter less how many drunken operatives left their laptops in bars. No one could ever get the information out of them. If al-Qa'ida had used IBM laptops, it could have left them all over Kabul and its work would have remained locked on a hard disk – rather than being decoded, as it was, by some journalists who bought a second-hand PC there that the organisation had used to write letters and e-mails." [The secret life of your own laptop by Andrew Brown. Independent 25<sup>th</sup> February, 2002;

<http://news.independent.co.uk/digital/features/story.jsp?story=139444>].

The Metro Newspaper of Wednesday 13th March 2002 carried an interesting digest article entitled '20,000 MI5 files 'active'.'

"MI5 is keeping open about 20000 active files on individuals, it was disclosed yesterday [12/03]. Home Secretary David Blunkett said of the 210,000 personal files held by the security service, about 20,000 are 'green' - the most active category. Of the rest, 70,000 are 'amber' - which means further investigation is prohibited, although new information that comes in can be added. The remaining 120,000, including 40,000 on microfiche, are marked 'red', meaning that they are closed."

*ENIGMA 2000 acknowledges the use of the Metro Article [for which permission to use was sought via email and to which no reply was ever received].*

## The Truth Is Out There !

America's western allies reacted with concern to the creation of Pentagon department of propaganda aimed at planting disinformation in the media of America's friends as well as its enemies. The Office of Strategic Influence has been set up to disseminate truthful information openly, but also to spread what one senior Pentagon official called "the blackest of black propaganda". The organisation, which is headed by a brigadier and has about 15 staff reporting directly to the under secretary of defence for policy, is already working on ways to influence and mislead the media in a number of countries, mostly in the Islamic world, but also in Western Europe.

A Pentagon source, who asked not to be named, said there were some European nations that "sometimes needed to be helped to see the light". The existence of OSI was revealed in the New York Times. It was reportedly established to spread positive messages about the war on terrorism, but it would also use disinformation and misinformation to mislead friend and foe alike. Reaction among America's allies was universally negative. One Western official said "This sort of thing might work in countries with no sophisticated media network, but not in Europe or any other major democracy". A European diplomat said: "Everyone uses disinformation for military reasons, but I have never heard of using official sources to spread false information to the media of an ally". Another diplomat said: "The Pentagon is not exactly regarded as the font of truth and justice now, so I don't know what sort of damage to its reputation this might do if it leaked out. "All I can see this sort of thing doing is giving a mighty good excuse to our enemies for dismissing all coalition claims as black propaganda".  
By Ben Fenton, Washington. Daily Telegraph.

## Stop Press - Department Closes Or Does It ?

With regard to the earlier article - Donald Rumsfeld, the defence secretary, said that he was closing a Pentagon Office which critics said would be used to spread "black propaganda" in friendly as well as hostile countries during the war on terrorism. Well make your own mind up readers !!!

## Carry On At Vatican !

Vatican Radio 'immune from prosecution'. Directors of Vatican Radio are immune to prosecution over allegedly harmful electro-magnetic radiation from its transmitters, a court ruled, following protests from people living near the site. The antennae, near Cesano on the northern edge of Rome, had the same extra territorial status as the Vatican the Italian court said. According to reports cited by the prosecutors, rates of child tumours and leukaemia in the area were six times higher than the Rome average.

## Money Does Not Buy You Everything !

Greek tycoon on spy charge. The Greek telecoms tycoon, Socrates Kokkalis was recently charged with fraud, money laundering and espionage that includes alleged links to the former East German spy agency. Kokkalis, 63, was educated in Moscow and East Berlin before returning to Greece to set up Intracom, a supplier for Greece's OTE telephone company. He is president of the Athens football team Olympiakos and his personal fortune is estimated at more than æ80 million. AP, Athens.

## Probe Into Czech Communist Bomb Plot

The Czech authorities have begun a criminal investigation into two communist secret agents for a 1950s letter bombing in France, it has emerged. The attack was made against a meeting of the nascent European Coal and Steel Union - the forerunner of the European Union - and was part of a plot to stop the post-war Franco-German rapprochement. But the spies bungled their work and only succeeded in killing the wife of a French regional official.

The two suspects in this case are both now in their 70s and living on their pensions in Prague - but in the 1950s they were allegedly engaged in an ambitious covert operation straight out of a Cold War spy novel. It was believed that Alsace, the French border area which had often changed hands between the two countries, would be a good place to start. A local prefect was to be assassinated by a letter -bomb disguised as a box of cigars, which would be delivered to him at a meeting of the ECSU. A campaign of rumours and disinformation would then try to make it look like a German nationalist attack. But the bizarre plan went wrong. The letter was opened by the prefect's 39-year old wife

a few days after the meeting and she was killed. Now the Czechs want to bring the culprits to justice. In theory, they could face 15 years in prison each. In reality, it could just be an intriguing historical footnote. Czech justice works slowly and few such cases have been brought to a successful conclusion.

#### Our Man In Moscow

Here is a quiet hero few of us had heard of before. We may all of us - yes, you sir, with the toast and honey in your mouth, and you, too, draining a station-café coffee - owe our lives to Gervase Cowell. This "small, humorous unassuming man" now dead, features in Peter Hennessy's new book *The Cold War and Whitehall*. Cowell was the MI6 officer in Moscow during the Cuban missile crisis, who was running Col Oleg Penkovsky, Britain's "golden" double agent.

Penkovsky had a prearranged set of noises to use down Cowell's telephone if a Soviet Nuclear attack was imminent - "three blows of breath, repeated in another call one minute later". As Britain's V-bombers were standing on alert, on November 2, 1962, the coded call came through. But according to Prof Hennessy, who was interviewed for a new talk show on BBC4, Cowell sensed, rightly, that Penkovsky had been captured, tortured and had the codes extracted from him. Acting on his instinct, at this most dangerous moment he did...precisely nothing. He did not tell the British ambassador in Moscow. He did not mention it to London, either. And that single act of inspired passivity stopped... well who knows what? The story was circulating at the party for Hennessy's book, where one of Whitehall's great cold war-warriors, Sir Michael Quinlan, gave the address. Senior mandarins were exchanging stories of their named places in the bunker where they would retreat if the world was about to end. Sir Michael was, we were told, devoted to four things only: "His God, his family, MCC and the hydrogen bomb". He smiled and did not quibble. Andrew Marr, Daily Telegraph.

#### Red Alert in USA

The United States Government have approved a system of colour coded alerts to indicate threats of terrorism in the country. They are Green Yellow and Orange, the highest level Red signifies a severe risk of attack and may require the pre-positioning of specially trained teams closing public government facilities and monitoring transportation systems, reports Voice of America News.

#### Former spies fight with police in protest over lost bonuses

Around 500 former South Korean spies clashed with police protesting about their government's refusal to pay bonuses for spy missions they carried out in North Korea between 1953 and the early 1970s. These demonstrators aged 60+ were dressed in black uniforms and fought with 1,000 police using metal staves. The protesters also set fire to LPG canisters but a fire engine quickly extinguished the flames preventing the bottles exploding. Other security forces stopped the demonstrators from demonstrating near government buildings.

#### RAF Menwith Hill new role?

The UK government previously gave the go-ahead for an update of a system at the North Yorkshire US base, Menwith Hill.

This new role is expected to be in line with a new or updated/upgraded series of US satellites not yet totally operational.

The Space Based Infra Red system [SBIRS] is expected to be used in the 'son of star wars' system despite assurances by the Americans that it is handled, "as entirely separate from missile defence."

A Defence Ministry strategic technologies director said that "SBIRS was separate from missile defence, but he added: "Clearly that would be of immense value if the US were developing a missile defence system." [?????]

*[A new book, Secret Cold War Nuclear Bunkers by Nick McCamley illustrates how the real beneficiaries of all GB's cold war preparations were all steered towards keeping the American way of life going. It certainly looks as though it's happening again!]*

#### Serbia's Deputy Prime Minister arrested for spying

Serbia's Deputy Prime Minister Momcilo Perisic, also a former commander of the Yugoslav army, was recently

arrested on spying charges and detained by Serbia's military security service. A US citizen was also questioned but released later.

#### Spying at BAe

A 45 year old test co-ordinator was arrested on Friday 22nd March in a joint operation involving Essex Police and the Security Services.

The worker, employed in the design department of BAe Systems and Avionics [Basildon], faces nine charges under Section 1. OSA1911 and one under the Theft Act. It is alleged that he obtained "documents and information prejudicial to the interest of the state, which were intended to be passed on to the enemy".

The accused is alleged to have taken a CD-ROM holding project details of the HALO system which held data produced since the beginning of 2002. Other charges involve obtaining NATO restricted data and three of passing information on. Details of the intended recipients have not yet been released.

After an appearance at Bow Streets Magistrates Court he was remanded in custody and appeared at the Old Bailey on 3rd April. The result was that the worker will remain in custody until his trial on these charges.

*The BBC News [25/03] carried a full report and showed HALO to stand for High Agility, Low Observable, stating that it is believed to involve the creation of stealth technology making aircraft invisible to enemy radar. Other newspapers of that date carried that detail too, perhaps in an attempt to suppress details of the actual device. [The Times 26/03 mentioned it as a 'hostile artillery locator'].*

*A visit to [http://www.baesystems.com/engineeringexcellence/examples/hostile\\_artillery.htm](http://www.baesystems.com/engineeringexcellence/examples/hostile_artillery.htm)*

*shows that it is actually a passive system called Hostile Artillery Location System. This system uses clustered acoustics to range and pinpoint guns or mortars fired in an area of upto 6500 square kilometres.*

*Each sensor position is described as consisting of three microphones, a processor unit, a meteorological sub-system and a data link, either radio or landline. The system is described as completely passive and covert, so the enemy is unaware of monitoring.*

*BAe also describe how the HALO system was utilised in Sarajevo, during the 1995 Bosnian conflict, to help destroy Serbian gun positions.*

#### Indian Airman charged with spying for Pakistan

A 30year old Indian Air Force corporal has been arrested for spying after being caught re-handed passing secret documents to a Pakistani embassy official.

The corporal readily admitted to being recruited as a spy in 1998 and had received 100000 [100k] rupees [circa £1260] from Pakistani officials for passing on classified documents relating to the Indian Air Force.

The last documents handed over related to the Indian Air Force's signals unit.

Whilst there has been no comment from the Pakistani High Commission it is expected that the member of Consular Staff involved will be expelled from India, much like the two who were expelled in March for also collecting classified Indian Government classified documents.

#### Death penalty against a US military employee

The American government recently required the death penalty against a U.S.

military, specialist in space intelligence, sued for espionage, believed to be in favour of Iraq.

Brian Patrick Regan, aged 39, worked with the NRO at the time of his arrest and had offered his services to Iraq, Libya and a third unnamed country. U.S. spy satellites are all managed by the NRO. Regan was arrested in August 2001.

#### **Suggested Reading**

Sent in by Jmm as a recommendation that might be of interest to E2K readers

Steven Levy - 'Crypto - Secrecy and Privacy in the new code war,' Penguin Ed.

ISBN 0-140-244-328 / EAN13 9780140244328 [Txn Jmm].

#### **RELEVANT WEB SITES**

<http://www.cvni.net/~mwolf>

[http://www.baesystems.com/engineeringexcellence/examples/hostile\\_artillery.htm](http://www.baesystems.com/engineeringexcellence/examples/hostile_artillery.htm)

<http://news.independent.co.uk/digital/features/story.jsp?story=139444>

[http://www.europarl.eu.int/tempcom/echelon/pdf/prechelon\\_en.pdf](http://www.europarl.eu.int/tempcom/echelon/pdf/prechelon_en.pdf)

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

<http://www.geocities.com/uvb76>

<http://www.eyespy.com>

## REQUESTS

ENIGMA 2000 would be most interested to hear from anyone who lives or has travelled overseas with their radio to monitor number stations.

Is anyone living near Culmhead CSOS station site who can confirm the masts have gone?

Please make your requests or replies via [e2k\\_news@hotmail.com](mailto:e2k_news@hotmail.com) or 076 2627 6417 pager.

## STOP PRESS

Of interest to the short wave listener

The Voice of America ended their long -running programme for enthusiasts of short wave, satellite, internet etc, "Communications World" in late February. This had been hosted for the past five years or so by Kim Andrew Elliot and for many years before that by Gene Rich. It was an excellent, informative programme and I always made a point of listening to it. It was aired at several different times on Saturdays and Sundays, my own personal favourite spot being the 0700 UTC transmission on Saturdays which was sent in single sideband mode from the VoA transmitter in Greenville, North Carolina, 6,873 KHz in winter, 10,869 KHz in summer. It was the only decent programme for short wave fans left after Radio Netherlands ended their Media Network Show a few years ago. [Tnx PoSW]

"Swinging Radio England" back on 6276kHz over the Easter holiday; is run by some of the same personalities which were involved with Radio Free London which used to be on 5,805 KHz at weekends. S.R.E. had not been on for sometime; I think they had been raided by the authorities earlier in the year. Their programmes are all pre-recorded on tape so the same material comes around every few hours. Nice to hear them back again. [Tnx P]

Noted again over the weekend of 20/04 but with lower signal strength than usually enjoyed before its previous shut down. [PLondon]. Unfortunately SRE was taken off once again [1545z 21/04] due to what appears to be a raid by persons not necessarily connected with the official body who do these things. [Tnx TR]

BBC Series called 'Spooks' well advised.

Viktor Abramkin and Nick Day, both ex-intelligence officers in the KGB and MI5 have worked together as advisors to the BBC for their new series 'Spooks'. Spooks is rumoured to be a realistic portrayal of how MI5 operates due to the advice by the above mentioned. 'Spooks' is said to be coming on our screens in May. [PLondon].

'E' Pckg rcvd, pse cont to send. Mni tnx --'P'

'LP' Thanks for logs -- 'P'

Greetings to the Ascension Island monitors -- The staff and monitors of e2k hope you enjoy the newsletter!

## CONTRIBUTION DEADLINES FOR 2002 ARE AS FOLLOWS:

Issue 11 July 20  
Issue 12 Sep 22  
Issue 13 Nov 22  
Issue 14 Feb 21

**Please note that all items intended for publication in the next ENIGMA 2000 newsletter should be received in good time. Please send your articles, news items and requests via the above e-mail address. 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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