

ENIGMA 2000 NEWSLETTER

Articles, news reports and Items of interest: enigma2000-owner@yahoogroups.com
<http://groups.yahoo.com/group/enigma2000>

May 03
Issue 16

Welcome all to Issue 16, May 2003. Once again we give our thanks to all our contributors for their ongoing support. Conditions during the past two months have been reasonably settled, apart from a bit of a blip during last week of April, and this has reflected in the logs received with reports of stations and skeds missed during the first couple of months of the year. Solar activity SSN's generally around the 50-100 mark and no Geomagnetic Storm warnings received, only a few C-class and M1/M2 flares reported which gave some minor fadeout confined to the Pacific/North Western America areas and one which slightly affected European lower freqs on 21st & 24th April. The crisis in Iraq has dominated our news but not reflected in Numbers activity, apart from M76 which is still at a high level and some odd M10 calls, with some stations appearing to reduce activity. I know I have commented on this numerous times over the past 10 years but I find it more than intriguing that our "friends" appear to have a world of their own, divorced from the rest of us!!

ENIGMA CONTROL LIST

Issue 18 will be published on the group site, and sent to the usual recipients within the next few days.

G19 ?? German Man, is he back with us after a break of 9 years or so.

Maciej (Miles) Muszalski logged, and recorded, a TX on 18 Apl, 14.43z, 5315kHz USB, sending German 5f with possible ID 732 (other later comments/reports state 327) unfortunately the ending was not recorded, as it is significant for G19, but the voice/speed used was NOT that of the original station – which used the "live" G01 type voice, and was last heard Sat 25 Nov 1995, 21.00z on 5233kHz, again after a longish absence, further monitoring is ongoing to establish the "credentials" of this station but it looks very interesting, even to having the well known G19 TX'er Hum.

There is no known record of a Numbers Station coming back on-air after such a long absence so this could be quite a remarkable event

E10's, a nice roundup of activity for early 2003 from our E10 Desk, see entry

V2's, good reports from this side of the pond, see entry

M10's, a couple of interesting developments and "unusual" times/calls, see entry

M88, **NEW ID** assigned, see entry

XPM, **NEW ID** assigned, see entry and XP's (Polytone) Notes article.

BEGINNERS CORNER

We return again with the prediction charts, provided by GD, that are proving of great help to newcomers. Where a "possible sked" is indicated please highlight these in your logs if heard, it allows us to update our info more quickly and GD of the CW Desk is always hungry for information.

M13 Prediction Chart May 2003:

Day	Dates	Time	Freq	ID	S	Notes
Th	1 15	2000	12834	253	227	
Th	1 15	2145	8183+	757	249	
Th	1 15	2200	5119?	186	238	G22 Possible sked
F	2 16	0400	7994+	284	224	
F	2 16	2000	12834	253	227	
F	2 16	2000	8497	284	224	
F	2 16	2145	8183+	757	249	
S	3 17	0230	6715	767D	278?	
S	3 17	0300	6212+-	378	259	
S	3 17	0400	7994+	284	224	
S	3 17	0430	5788	411	249	
S	3 17	2000	8497	284	224	
S	3 17	2030	5788	411	249	
S	3 17	2100	5757	378	259	
Su	4 18	0230	6715	767D	278?	
Su	4 18	0430	5788	411	249	
Su	4 18	19/20	13415	261	268	
Su	4 18	2000	5315	123	???	Possible sked
Su	4 18	2030	5788	411	249	
M	5 19	0300	6212+-	378	259	
M	5 19	0330	11475	458	224	
M	5 19	19/20	10246	261	268	
M	5 19	19/20	11306	517	229	
M	5 19	2100	5757	378	259	
M	5 19	2110	Srch 4/6	427	???	
M	5 19	2120	9926	746	229	
M	5 19	2200	12216	458	224	
T	6 20	0330	11475	458	224	
T	6 20	0600	Srch 6/9	572	224	

Day	Dates	Time	Freq	ID	S	Notes
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T	6	20	19/20	11306	517	229		
T	6	20	2100	8932	272	268		
T		20	2100	5376	346	222		Possible sked
T	6	20	2200	12216	458	224		
W	7	21	0300	7854+-	254	234		
W	7	21	0600	9094	823	224		
W	7	21	0630	10887+	474	224		
W	7	21	2100	7517	254	234		
W	7	21	2100	5085	367C	226		
W		21	2100	5376	346	222		Possible sked
Th	8	22	0300	7854+-	254	234		
Th	8	22	0600	9094	823	224		
Th	8	22	0630	10887+	474	224		
Th	8	22	15/17	9965	865	224		
Th	8	22	2000	12714	714	224		
Th	8	22	2100	7517	254	234		
Th	8	22	2100	5085	367C	226		
Th	8	22	2200	5119?	186	238	G22	
F	9	23	15/17	9965	865	224		
F	9	23	2000	12714	714	224		
F	9	23	2000	5315	123	???		Possible sked
S	10	24	0230	6715	767D	278?		
S	10	24	2100	4732	764B	272		
Su	11	25	0230	6715	767D	278?		
Su	11	25	1900	8086	417	224		
Su	11	25	2100	4734	764B	272		
Su	11	25	2115	8067+-	501	228		
M	12	26	0300	8247+-	??A	231		
M	12	26	1900	8086	417	224		
M	12	26	2000	9945	372A	231		
M	12	26	2115	8067+-	501	228		
T	13	27	0300	8247+-	??A	231		
T	13	27	0600	Srch 5/9	572	224		
T	13	27	0900	7678	679	240		Possible sked
T	13	27	1900	7698	679	240		Possible sked
T	13	27	2000	9945	372A	231		
T		27	2100	5376	346	222		Possible sked
T		13	2145	3868?	342	237	S04	
W	14	28	0900	7678	679	240		Possible sked
W	14	28	1900	7698	679	240		Possible sked
W		28	2100	5376	346	222		Possible sked
W		14	2100	????	269	191	E18	Possible 2145
Th		15	2100	????	269	191		E18 Possible 2145

XP's (Polytone) Notes

Since the early days of the E2K Newsletter there have been numbers of comments/questions regarding the reception/interpretation of the Polytone systems group (XP, XPL, XPM, XPH) as referred to in the ENIGMA Control List.

[See also article regarding XPL in this issue, it's proving to be a different system altogether]

These comments were along the lines of :-

How do I know if I'm correctly tuned ?
 How do you establish the tonal freqs ?
 How do you work out what the tones represent ?
 The tones I hear are different to the published .wav/mp3 samples

Although E2K were already carrying out intensive analysis of the XP's the combined comments set us thinking about our approach to the problem, and it was evident that certain "protocols" needed to be implemented to resolve the issues raised.

Important amongst these were :-

Establishing a Reference Datum for each system.
 Referencing the Datum to a known, dependable "master" signal.
 Allowing for equipment variations/errors.
 Allowing for human tonal perceptions
 Having a "commonality" across all systems, if possible
 Using common analysis & recording programmes

The “master” signal was relatively easy, we used Standard Time Signals, where all the parameters are known, accurate and repeatable. The chosen “datum’s” were referenced to these sigs in the analysis programme.

Common programmes, we decided on Cool Edit for recording / signal manipulation and Spectrogram for the analysis, both are widely used in the hobby and are accurate and flexible.

Human tonal perception basically has to be ignored, the variations are too great. In a quick “experiment” 2 groups of 5 “volunteers” at my workplace were played a series of tones from 200 – 2500Hz, in random order, and asked to give a independent written opinion, in tick boxes, as to whether each tone was Low/Medium/High. There were 10 differing answers !!!

Equipment variation/errors. We all like to think that “our” kit is perfect – far from it, but amply good enough for most purposes. A check of manufacturers specifications, in the mid-price range of the typical kit we use, showed that almost all quoted an accuracy of $\pm 50\text{Hz}$ of the displayed freq and that there was no “standard” offset for SSB and the crystal ageing figures were relatively high. Together these cumulative errors could make a difference large enough for a “perceptive miss-identification” but my own listening interests gave a “cheep & cheerful” answer that is easy to use and remarkably accurate in checking receiver calibration.

[Install the shareware version of Charles Brains’ PC-HFDL prog, even if you have no interest in aircraft monitoring. The accuracy of the TX’s and the algorithms Charles uses will give a readout correct to 6 decimal places of the variation from the displayed freq, but always use the Base Station TX’s, sent every 32 seconds, and not the aircraft ones. There are many HFDL TX,s spread from 3 – 22MHz, we can supply a chart on request.]

Reference Datum’s & Commonality combined were the most difficult to reconcile but it was noticed that XP & XPH, and presumably the new XPM, all have a “space” character which occurs numerous times in every TX as being a common factor.

The tone of this “space” is now used as the Datum for our analysis, they are for XP 303Hz & XPH 1304Hz $\pm 3\text{Hz}$, XPM still being assessed.

Recordings from differing sources can now easily have an “error correction” applied by measuring the variation of the “space” tone from the Datum and applying the same figure to “adjust” all other tones.

And the last, but important, point – how can one easily identify each system for logging purposes?

It’s easy without even knowing what the specific tones are, a Spectrogram plot will show [*as you will read later*] :-

XP uses 14 tones

XPM uses 18 tones

XPH uses 13 tones

SELECTED MORSE STATIONS

Errata :-

Issue 15, M76. I misread our info!!, the 30 TX’s mentioned were not for the whole of 2002 but up to the same point in time as Issue 15/ 2003, the final 2002 total was 458 mssgs.

Unid1 per IB

24 Mar, 8802kHz, 01.00z. “xsv86 de 3sy” believed Chinese Mil net, again on 31 Mar & 1 Apl

25 Mar, 10588kHz, 01.15z. “bjcq de 3sw” “ “ “

Unid2 per IB

28 Mar, 8375kHz, 13.30z. “MCW 4F cut”

“vvv vvv vvv cq cq cq de bkg bkg bkg hr nw hr nw hr nw ar ar” x8, 4f. Chinese? by format.

M01a

No fixed skeds, now any day any time. Previously TX’d in last week of month on M01 freqs.

This difficult to find station, on a higher than usual freq, was logged on 7 Apl, 16.20z, 7656kHz.

Nice catch from GD

M08a

Additional freqs noted since Issue 15. 3244, 3926, 4478, 6797, 7519, 7555k, 7681, 9062, 9152, 9323, 10126, 10235, 10344, 10858kHz

The 13.00z sked, 9 Mar, 7320kHz had a strong harmonic on 14640kHz

The 12.00 sked (5 Apl) on 10858kHz is back again, but the 13.00z repeat expected on 12093kHz appeared on the 12.00z freq.

MS remarks that the skeds appear to be reduced since end Mar, and there is the occasional screw-up.

M10 CW & MCW

No set freqs, but patterns emerging, timings erratic on some TX’s

The Sat/Sun 16.30z MCW sked now settled on 5078//7745kHz, as in Oct 02, still with mssgs for 049, 275, 435, 571. (constant carrier, keyed audio) and continued into April with the March freqs.

On 11 Mar again the S10d was on the same freqs as M10 (5301//8112), see Issue 15 p 16, with M10 clg 555 720 and S10d clg 555 923, becoming a habit !.

New freq pair noted from 6 Mar, 02.10z sked, 6758//4485kHz, “555” sked

On 13 Mar 8190//5078kHz, 08.00z “555” sked

8143//12227kHz, 12.11z, in prog

On 17 Mar 5078//8112kHz, 17.03z “555” sked

On 20 Mar 14445kHz, 08.48z in prog. One of the highest freqs logged.

On 27 Mar 7745//9165, 19.50z “555” ske

With this TX 7745kHz was noted at 19.45z with “rapid dots” using constant carrier MCW before changing to CW “rapid dots” prior to the TX proper.

Some strange sked numbers also been appearing regularly, but appear to be confined to the 04.10z sked, MS asks if monitors have noticed this behaviour in other skeds not audible to him.

(Yes MS, also noted by PoL. Ed)

On 9 Mar, 04.10z, 6763kHz (666 sked !!!) & 4485kHz (in prog) were in use but NOT // sked.

On 10 Mar, 04.10z, 6763kHz (444 sked !!!) not sent on 02.10z

On 10 Mar, **04.00z**, 4485kHz (555), not associated with the 02.10 / 04.10 skeds

On 23 Mar, 04.10z, 6763kHz (777 sked !!!)

On 30 Mar, 04.10z, 6763kHz (444 sked !!!)

On 4 Apl, 02.10z, 4485//6768kHz (555 sked) Still using the March freqs ?

On 31 Mar 22.00z, 4485//3522kHz (687??)

On 23 Apl, 04.10z, 6763kHz (888 sked !!!)

ON 24 Apl, 04.10z, 6763kHz (222 sked !!!)

[See also: Page 14 for the Slavic desk schedules, frequencies and observations]

M12

No set freqs/skeds, timing very erratic. increase in skeds noted during April, and re-use of last year's freqs.

Sample logs, indicating time/freq spread through day.

A new 05.30z sked, 9108kHz, "122" on Mon & Wed spotted by PoSW, repeats not yet found .

5431kHz, 22.00z , 7 Mar

12215kHz, 18.34z. 11054kHz 18.54z. 9436kHz, 19.11z. "204" 8 Mar

complete sked repeated on 10 Mar

14916kHz, 07.40z, Sun 9 Mar (149 000) previously used the "149" on Sundays in Oct 02.

This sked repeated on Sun 23 Mar

6782kHz, 17.00z. 7657kHz, 17.20z. 8173kHz, 17.40z "749". 10 Mar

14987kHz, 07.00z. 16259kHz, 07.20z. 17534kHz, 07.40z "925". 11 Mar

8039kHz, 21.20z. 6778kHz, 21.40z. 5431kHz, 22.00z, "865" . 14 Mar

12215kHz, 18.30z. 11054kHz, 18.53z in prog. 9436kHz 19.10z. "204" 15 Mar

this complete sked repeated on Mon 17 Mar

14725kHz, 19.40z (3rd sending) "517" 4 Apl

1st sending probably 17525kHz, 19.00z, as last year.

Another "Sunday morning special" 16084kHz, 07.20z "134" 6 Apl

1st sending probably 13484kHz, 06.40z

M13

Refer to prediction list for May freqs (GD)

New freq noted for the 757 sked, 7 Mar, 22.45z, 8183kHz

Possible "501" sked 9 Mar, 22.15z, 8067kHz, confirmed on 10th & 24th .

On 16 Mar, 20.00z/21.00z on 10925kHz, "261" sked

On 17 Mar, 20.02z/21.01z, on 6975kHz, "261" sked

The "new" 23.00z freq found in Jan 03, logged in Mar at 22.09z, in prog, "272" sked

On 18 Mar, 21.00z, 9946kHz, "517" sked

On 28 Mar, 21.00z, 10143kHz, "714" sked

On 7 Apl, 20.00z 8127kHz, "517" sked

On 22 Apl, 20.00z, 10632kHz, "517" sked

M13a

This "special" sked popped up again on 10 Mar, 04.00z, 6705kHz. (372x3 000 [R5]), not logged for the past couple of months, under QRM. A very good catch for MS.

M13d The twice monthly sked, sometimes.

Did not appear on 15 Mar, 03.30z, or on 27 Apl

M14 MCW

On 4 Apl, 1st Friday of month TX, 9045kHz, 20.00z

Could have been 1st or 2nd sending, dependant on the summertime change.

M24 High speed M14

10555kHz, 18.42z, in prog, ending "740 740 111 111 00000" at 18.45z. 11 Mar

" 18.38z " "578 578 106 106 0000" 1 Apl

15687kHz, 19.35z "485" 1 Apl

14567kHz, 19.55z "485" 1 Apl

The above 2 skeds ran in April 02, 1st sending was probably 17467kHz 19.15z

M40 20wpm, short zero

Back with us again.

On 2 Apl, 17.00z, 12300kHz. Clg "cq 515.349 HR HR 6 6"

Nice double mssg TX.

M51 auto CW

Still doing its marathons.

On 5 Mar, 07.51z, 4861kHz, 100 gps. QRM from MCW on which M51 appeared superimposed

On 28 Mar, 07.58z, 5055kHz, 97gps. Gps 59 & 60 appeared corrupt.

On 2 Apr, 07.00z (in prog), 5056kHz

M76

On 04.00z 3280kHz.

Up to mssg 363 by Sat 18th Apr, had sent 32 mssgs in previous 9 days.

M83

On Wed 19 Mar, 07.59z, 5330kHz, 50 gps. Started auto, long zeros, then hand sent hastily & carelessly

On 22 Mar, 07.58z, 4886kHz, auto 12wpm?

On Thu 27 Mar, 08.24z, 5246kHz.

On Mon 7 Apr, 07.00z, 5368kHz. TX QSD resembles "novice" sending

On 15 Apr 07.37z 5290kHz, auto 8wpm, long zeros

On Fri 18 Apr, 07.00z, 5290 & 5330kHz, separate TX's

M87 MCW. cut

Logged 17 Mar 7940kHz, 00.01z with a "684 r, 000 000" null message. The 684 groups were not consistent in this TX, being x8, x15, x14, x15, x26 ??

On 15 Apr, 14.30z, 7065kHz in progress.

M88

NEW, as initially reported as "unid 4, PoSW" Issue 15

This Wednesday mornings station, now being regularly logged, has been assigned an ID.

PoSW has investigated and the continuing consistent results warrant its inclusion in the Control List. Further monitoring ongoing. First noted 6 Nov 02.

Brief details:-

Very slow CW, 07.30z Wednesday mornings only (so far), maybe a monthly sked, freq usage still to be identified. Possibly only a 5min sked.

TX's "508 / 00" repeatedly and ends "= =" three slow, well spaced, dashes "000"

It has a notable "signature" in that the TX appears to be a "keyed carrier" modulated with a "high pitched tone"

Freqs heard 8088/9, 6941kHz, strong sig in UK.

Thanks to :- GD, IB, JP, LP, ML, MoK, MS, PoL, PoSW, Anon2 UK, Anon1 EU.

Welcome to both Jim P & RN who have joined the CW team and settling in nicely.

SELECTED VOICE STATIONS

CLOCK CHANGES

March is a difficult time for knowing what will happen as the clocks change from UTC [GMT/z]. Gert kindly sent in a very useful short list predicting the habits of certain stations at the change for NL13 and we again print this as a useful reminder.

Stations observing UTC [GMT/z]

E06 utc, E11 stays utc, E15 utc, G06 utc, S10E utc, S17c utc

Stations observing CET [Central European Time]

E07 CET [winter 21.00, summer 20.00], E18 CET, G04 CET, G22 CET?, S04 CET?

[Txn Gert]

Now onto the listings:

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

E03/E03a

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

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

E05

PoSW writes of March activity: 'Nothing new to report on E05, still just the 2100z Saturday and Tuesday schedule. The Hebrew language broadcast station on 6,973 which usually causes sideband splash QRM to Cynthia on 6,970 has developed a problem which seemed to start on Saturday 1-March; although the carrier remains S9+ the modulation has become very low, seems lower at some times than others, totally inaudible on some occasions. Strange for a BC station to go for such a long time without the owners fixing the fault. Perhaps this station serves some purpose other than broadcasting light entertainment, a beacon of some kind maybe. Anyway, the plus side of all this is that the much reduced modulation level results in less QRM to Cynthia on 6,970kHz.'

6970kHz 2130z 08/03 hfd

PoSW's previous interception of Cynthia's dulcet tones on the 6970//8110kHz 2100z Sat/Tues schedule was on 5th April when the call/count was heard to be 919/199. [That call count having been noticed Saturday 08/03]. On 05/04 PoSW also noticed that audio test tones were up on four E05 frequencies, at 0635z, they were still on at 0717z - on 6970, 8110, 9090 and 11526kHz. 6970 and 8110 were in suppressed carrier mode, the 9090 and 11526 were with carrier.

PoSW did not hear Cynthia's quacking until 2120z on 6970//8110kHz on 26th April, the count being '150' as stated at the 2124z 'repeat'.

PLondon also mentions E05, he heard Cynthia's drawl:

6970kHz 2130z29/04 [111 count 150 = 967 90] USB Sigs started well but BC QRM from 2135z caused het. //8110kHz
8110kHz 2130z29/04 [111 count 150 = 967 90] USB S7 //6970kHz

PLondon had sat on the two above freqs [whilst waiting for a series of polytone stations elsewhere] and noticed that on both frequencies Cynthia's masters transmitted test tones at 2025 and 2030z. At that time the signal strength recorded for both was +20dBs.

PoSW noticed that the "Attention 123" column in Short Wave Magazine suggests that satellite phones or the Internet are being now used in preference to HF communications. He commented that the decrease of E05 [and others] is perhaps in much the same way that all the shipping communications which used to be heard on various HF frequencies just a few years ago now goes by communications satellite.

E06

The E06 English Man seems to be more active than earlier in the year; several schedules apart from the expected Saturday 1230 + 1330z transmissions noted recently, including a couple of the 2 - message variety

1-Mar-03, 1230z 18,235kHz, new frequencies for March, calling "791", DK/GC "325 325 68 68", strong signal, lower sideband well suppressed.

1330z 16,254kHz, repeat of "791" and "325 325 68 68".

8-Mar-03, 1230z, 18,235kHz, call "791", DK/GC "680 680 94 94", signal strength S6 to S7 at best, lower sideband well suppressed.

1330z 16,259kHz, repeat of "791" and "680 680 94 94", slightly stronger signal than first sending.

Other E06 transmissions:-

20-Feb-03, Thursday, 2200z, 5,460kHz, calling "138", DK/GC "724 724 30 30", very strong signal, lower sideband well suppressed.

Carrier with tone was up at 2145z on 5,450kHz - on same frequency as RAF Volmet - but then QSYd to 5,460.

23-Feb-03, Sunday, 1930z, 5,360kHz, calling "690", DK/GC "437 437 159 159". Strong signal, lower sideband well suppressed.

5-Mar-03, Wednesday, 2006z, 6,860kHz, E06 in progress which turned out to be a 2 message transmission; at 2008z ended a message with "371 371 24 24", then called "863" for a minute followed by "956 956 17 17" and another message. Ended just before 2013z.

2203z, 6,830kHz, "569 569 569 00000", good signal, close to "Jet", stopped 2204z.

8-Mar-03, Saturday, 1320z, 16,227kHz, E06 with "761 761 761 00000". This looks like the return of the schedule noted last year and which appeared to vanish in the autumn, second and fourth Saturdays in the month with the repeat sending on a higher frequency than the first. Strong signal with both sidebands, unusual for E06 these days. Should turn up again on the fourth Saturday, 22-March.

9-Mar-03, Sunday, 0830z, 10,230kHz, this turned out to be another 2 message E06, calling "428", DK/GC "637 637 19 19", first message finishing with DKDKGCGC at 0838z, then "428" for a minute and second DK/GC "975 975 16 16". Ended 0842z. Signal strength only S5 but good audio due to lower sideband suppressed mode. Carrier with tone noted warming up the frequency 0815z.

10-Mar-03, Monday, 1836z, 8,150kHz, E06 in progress, strong signal, lower sideband well suppressed. Ended 1852z "287 287 105 105 00000".

6790kHz 2030z	19/03
7480kHz 2100z	05/03 [569 00000]
2100z	19/03 [569 569 569 00000]
8140kHz 1917z	19/03 [578-390/82]
8150kHz 1835z	09/03
13940kHz 1500z	22/03 [540-DK 912, GC 87]
16140kHz 1400z	08/03 [AM 507x3 00000]
1400z	22/03 [507-DK 912, GC 87 41661..]
16254kHz 1330z	01/03 [791-325/68=06168] hfd
16259kHz 1346z	09/03 [5fg x 2; ends 680 680 54 54 00000]
1330z	22/03 [791]
1330z	23/03 [791 238/91]
18235kHz 1230z	01/03 [791-325/68=06168] hfd
1230z	15/03 [791 00000]
1242z	22/03 [791 238/91]
1230z	29/03 [791 00000]

In April PoSW noted that The E06 English Man has become more active in recent weeks; activity seemed to be well down at the start of the year. Of special note was a weekly schedule noted at 0830z on Sundays in March which always sent two messages. The second and fourth Saturday in the month schedule at 1220z + 1320z is back, but I could not find the weekly 1230z + 1330z schedule on 12-April.

Frequencies for March were 1230z 18,235 KHz and 1330z 16,259 KHz, so in April the 1230z sending has gone up in frequency while the 1330z sending has gone down - strange!

5197kHz 2136z	04/04 [ends 252 43 00000]
7720kHz 2100z	08/04 [471 285 33=13498]
2100z	09/04

7760kHz 1934z 13/04 [last 00000 caught - poss rpt 1830z sending]. Also hrd by 'E'
 8170kHz 2207z 13/07 [134/87 - hum on carrier] via 'E'
 9055kHz 1700z 05/04 [2 msg format: 753-698/12 ends 1709z then 753-481/26 ends 1715z]
 9070kHz 1830z 13/05 [690 00000] freq prev used by Cynthia in past!
 9260kHz 2000z 09/04 [471-285/83]
 10320kHz 2100z 12/04 [285/134 87 00000] ended 2119z
 12210kHz 1500z 02/04 [457 00000]
 14610kHz 1400z 02/04 [457 00000]
 14753kHz 1600z 09/04 ['160' 475x2 181x2 32885]
 16183kHz 1330z 05/04 [826 00000]
 16226kHz 1220z 12/04 [761 00000] PLondon also hrd PoSW.
 16298kHz 1320z 12/04 [761 00000] PoSW comments "surprised to find the 1320z sending on a frequency only slightly higher than the first; I expected it to be on 18,298 kHz, as on past occasions and on finding no sign of a carrier on 18,298kHz just before the start time I tuned furiously up and down the band and found it on 16,298. This, together with the fact that the regular 1230z + 1330z E06 did not show up today suggests there is something strange going on."

18761kHz 1230z 05/04 [826 00000] It has also not escaped PoSW's notice that he has not heard any more sendings of this Saturday 1230/1330z schedule [// 16183kHz] on the 12th, 19th or 26th April. PLondon also listened on the 26/04 and was surprised not to hear the E06 transmissions. H-FD noted that on Saturday 19 and 26th a carrier was on freq until 1237z with no message passed.

E07

The E07 English Man remains busy in March;- Sunday and Wednesday 1800z Schedule;-
 1800z, 12,215 kHz; 1820z, 10,814 kHz; 1840z, 9,346 kHz. These frequencies were used in October '02. Call up on both Sunday 9-March and Wednesday 12-March was "283 283 283 1", DK/GC "288 116" x 2.
 E07 1900z Thursday schedule, noted on 6-Mar-03;-
 1900z, 10,389 kHz; 1920z, 9,207KHz, 1940z, 7,443 kHz, this last sending inside the 41 metre broadcast band, severe QRM, only just detectable. Call up was "324 324 324 1", DK/GC "707 57" x 2.
 E07 noted on Wednesday 12-Mar-03, 0630z, 8,103 kHz with "913 913 913 000", very strong carrier but mod. low in relation which seems to be an on-going problem with E07. This schedule does not appear to change on a monthly basis.
 E07, 2100z Monday and Wednesday schedule, noted on Monday 3-Mar-03;-
 second sending in progress, 2121 UTC, 8,185 kHz; third sending, 2140z, 6,817 kHz, calling "418 418 418 1", DK/GC "2192 113" x 2. Same frequencies as in March last year, first sending then was 2100z, 9,420 KHz, logged as being co-channel with strong BC station. UPDATE;- E07 logged on Wednesday 12-Mar, 2100z, 9,420KHz, severe BC QRM from "The Voice of Greece" - in the Greek language - on this frequency; 2120z, 8,185 kHz, strong carrier, low mod., no QRM; 2140z 6,817 kHz, strong carrier, low mod., "418 418 418 1", DK/GC "428 71" x 2. [PoSW]

March 03 as:

6817kHz 2140z	03/03
2140z	19/03 [418]
8150kHz 1835z	09/03
8185kHz 2120z	19/03 [418]
8187kHz 2120z	03/03
9346kHz 1840z	09/03 [283/1]
10814kHz 1820z	09/03 [283/1]
12220kHz 1800z	09/03 [Msg]

The E07 English Man transmissions moved by an hour with the start of summertime so as to appear at the same local time. Schedules noted in April [Tnx PoSW]

RN GB and PoSW sent these April Sunday/Wednesday slots in:

1700z	14866kHz
1720z	13571kHz
1740z	12194kHz

and RN GB heard 851/651-73 on 09/04

Gert and PoSW sent April Monday/Wednesday slots

2000z	13922kHz
2020z	12217kHz
2040z	11028kHz

and Wed/Fri as:

1710z	6934kHz
1730z	8103kHz
1750z	9368kHz

6817kHz 2140z	31/03 [418 242 126=67937]
8103kHz 0531z	23/04 [913]
11028kHz 2040z	09/04 [920 349 92 67826 88573]

12194kHz 1741z 20/04 [851 530 71 25745]
12195kHz 1740z 09/04 [851 651 73=00658 54517]
12217kHz 2020z 09/04 [920 349 92 67826 88573]
2020z 14/04 [920 000]
13571kHz 1720z 09/04 [851 651 73=00658 54517]
13922kHz 2000z 09/04 [920 349 92 67826 88573]
2000z 21/04 [920 000]
14866kHz 1700z 02/04 [851 000]
1700z 09/04 [851 651 73=00658 54517]

E10

From our E10 Desk Mar 03 by frequency

3.150

00:02 01 Mar PCD G118 * 23:00 03 Mar PCD2 * 23:30 13 Mar PCD2 * 23:00 17 Mar PCD2

3.230

00:45 14 Mar VLB2

3.270

23:45 28 Feb CIO2

3.640

23:45 28 Feb SYN2 * 22:45 02 Mar SYN2 * 20:45 07 Mar SYN2 * 00:45 14 Mar SYN2

23:45 27 Mar SYN2 * 23:45 30 Mar SYN2 * 23:45 31 Mar SYN2

3.840

23:00 03 Mar YHF2 * 23:01 17 Mar YHF2

4.015

22:45 02 Mar VLB2 * 23:45 31 Mar VLB2

4.165

23:45 28 Feb CIO2 * 00:45 02 Mar CIO (No group message) * 22:45 02 Mar CIO2

21:45 07 Mar CIO2 * 00:45 14 Mar CIO2 * 23:45 31 Mar CIO2

4.270

00:02 01 Mar PCD G118 * 23:00 03 Mar PCD2 * 21:32 07 Mar PCD G76 * 23:00 17 Mar PCD2

4.360

00:18 02 Mar KPA2 * 21:16 07 Mar KPA2 * 21:55 12 Mar KPA2 * 23:15 12 Mar KPA2

22:21 13 Mar KPA G38 (see comments) * 18:15 28 Mar KPA2

4.461

23:01 03 Mar FTJ2 * 23:02 28 Mar FTJ G34

4.560

23:00 06 Mar YHF2 * 21:31 07 Mar YHF2 * 23:01 17 Mar YHF2 * 23:00 25 Mar YHF2

4.780

22:45 02 Mar SYN2

4.880

23:03 03 Mar ULX G58 * 19:03 09 Mar ULX2 * 23:03 17 Mar ULX G111 * 22:00 18 Mar ULX2

23:00 27 Mar ULX G18+G28

5.091

20:30 15 Mar JSR2 * 21:00 16 Mar JSR G23 * 22:01 18 Mar JSR G63 * 22:30 29 Mar JSR G49

5.170

21:25 11 Mar CIO2 * 00:45 14 Mar CIO2 * 17:45 24 Mar CIO2 * 23:45 27 Mar CIO2

21:45 29 Mar CIO2 * 23:45 30 Mar VLB2 * 23:44 31 Mar VLB2

5.230

23:45 28 Feb VLB2 * 00:45 02 Mar SYN2 * 22:45 02 Mar SYN2 * 20:45 07 Mar SYN2

17:45 24 Mar SYN2 * 23:45 27 Mar SYN2 * 21:45 29 Mar SYN2 * 23:45 30 Mar CIO2

23:45 31 Mar CIO2

5.339

00:45 02 Mar VLB2 * 20:45 07 Mar VLB2 * 21:25 11 Mar VLB2 * 00:45 14 Mar VLB2

17:45 24 Mar VLB2 * 23:45 27 Mar VLB2 * 21:45 29 Mar VLB2

5.435

00:03 01 Mar ART G77 * 23:03 03 Mar ART G61 * 23:02 06 Mar ART G61

22:30 13 Mar ART G69 * 20:30 15 Mar ART2 * 22:30 16 Mar ART G69 * 23:00 25 Mar ART G46

22:32 29 Mar ART G49

5.437

00:33 02 Mar ART2

5.820

21:31 07 Mar YHF2 * 18:00 24 Mar YHF2 * 18:00 28 Mar YHF G72

6.270

01:05 02 Mar ULX G33 * 23:03 03 Mar ULX G58 * 23:02 04 Mar ULX G58

20:31 15 Mar ULX G74+G46 * 20:31 16 Mar ULX G74+G46 * 23:03 17 Mar ULX G111

6.370

21:26 11 Mar KPA2 * 21:51 11 Mar KPA2 * 21:55 12 Mar KPA2 (ended 22:30)
23:15 12 Mar KAP2 * 22:21 13 Mar KPA G38 * (see Comments)
00:15 14 Mar KPA2 * 21:15 14 Mar KPA2 (ended 22:26) * 21:15 15 Mar KPA2 (ended 22:20)
00:15 26:Mar KPA2 * 18:15 28 Mar KPA2 * 23:45 31 Mar SYN2

6.498

21:32 07 Mar PCD G76 * 00:30 26 Mar PCD2

6.840

22:18 05 Mar EZI G84 * 18:00 24 Mar EZI2 * 20:30 28 Mar EZI G39

6.912

22:17 10 Mar MIW2 * 21:51 11 Mar MIW2 * 22:00 12 Mar MIW2 (ended 22:30)

23:15 12 Mar MIW2 * 00:15 14 Mar MIW2 * 21:15 14 Mar MIW2 (ended 22:26)

21:15 15 Mar MIW2 (ended 22:20) * 00:15 26 Mar MIW2 * 18:15 28 Mar MIW2

00:45 31 Mar VLB2 * 23:45 31 Mar VLB2

6.930

22:45 03 Mar CIO2 * 20:45 07 Mar CIO2

6.986

23:03 03 Mar ART G61 * 23:00 05 Mar ART G61 * 23:02 06 Mar ART G61 * 19:00 09 Mar ART2

7.918

18:00 28 Mar YHF G72

11.565

22:18 05 Mar EZI G84 * 19:30 24 Mar EZI then changed to EZI2 (see notes)

17:00 25 Mar EZI G97 * 18:30 28 Mar EZI G46+G60

The following was submitted to E10 desk By RN. Thanks 'R'. ABC was a good catch On the 18th Mar, its one of the rarely heard c/s, though it was quite active for a short period last year. Last heard by me this year on the 3 Feb on 6.428.

2.626

21:40 20 Mar FTJ

2.270

21:00 10 Mar JSR

3.230

21:00 09 Mar VLB2

3.360

17:45 02 Mar CIO2 * 21:00 09 Mar CIO2 * 19:45 14 Mar CIO2

3.640

19:45 14:Mar SYN2

4.165

21:00 09 Mar CIO2

4.015

21:00 10 Mar VLB2

4.360

21:25 15 Mar KPA2

4.780

19:45 14 Mar SYN2 * 21:45 18 Mar SYN2

5.170

21:00 09 Mar CIO2 * 19:45 14 Mar CIO2 * 21:45 18 Mar CIO2

5.220

21:26 18 Mar ABC

5.230

19:45 14 Mar SYN2 * 21:45 18 Mar SYN2

5.339

17:45 02 Mar VLB2 * 18:45 13 Mar VLB2 * 21:49 18 Mar VLB2

6.370

21:38 15 Mar KPA2

7.918

16:00 31 Mar YHF

9.202

18:30 08 Mar YHF * 18:30 20 Mar YHF

10.648

16:00 23 Mar YHF

14.530

07:00 19 Mar YHF

19.715

14:00 29 Mar EZI

23.740

14:00 17 Mar EZI * 14:00 19 Mar EZI

6.840 9.130 11.565 13.533

EZI heard each day no other info given

E10 Comments Mar03

Over the last week commencing from the 11th Mar KPA2 & MIW2 have been transmitting out of their normal time slots of H15 - H20 and sending C/S only for approx. 1 hour then reverting back to normal timing on the next transmission. This might indicate some activity to come. On the 13 Mar. KPA indeed came to life at 22:21 hrs (at the time I first heard it) on 6.370 & 4360 sending a Group 38 message 5 times ending abruptly at 23:21 hrs with no EOM or EOT. Exactly 1 hour.

(I heard no activity from MIW) Looking back through my records, on the 15 Aug 02 on 5.230, was the once and only time I had ever heard KPA until now. Based on that, this transmission may have been of some importance?. KPA2 back as normal at 00:15 hrs 14 Mar.

The frequencies in use are KPA2 on 6.370 & 4.360. MIW2 on 6.912

As at the 16th Mar the practice continues (Still listening out.)

It may just be coincidence but on the 14th of Mar the Israeli army made an incursion into a small town north of Gaza.

16 Mar. The claim for the fastest 2x group readout must fall to ULX (G76+G46) who from the very first opening transmission to completion took 24 mins. Normally you have a small pause every 5th letter, not so ULX straight through at speed. Looking at the log it was the same group No's on the 15th of Mar, possible repeat?

24 Mar at 19:30 hrs on 11.565 EZI commenced the transmission, then changed to EZI2 and ended abruptly at 19:33hrs no EOM or EOT given.

28 Mar at 18:30hrs EZI on 11.565 suddenly ended transmission at 18:54hrs during the repeat sequence before the completion of the two group messages a G46+G60.

30 Mar 23:45 Hrs. You will note in the log that CIO2 & VLB2 changed freq's for this transmission VLB2 on 5.170 (norm 5.339) & CIO2 on 5.230 (norm 5.170) this is not a miss print. SYN2 who normally sends at the same time on 5.230 was heard on 3.640 at that time. Freq 5.339 was totally swamped by teleprinter type noise

The events of the last month in Iraq have tended to occupy my listening time, hence E10 being abit thin this month. The absence of any Special headers or c/s variations during this March may also have been missed, but its the first time that nothing has been recorded since I began this E10 caper. (My thanks to PLondon & Mike of Kent for the fine mess they got me into) *[It's our inordinate pleasure, -PLondon & Mike of Kent]!*

©BMDartford 31 March 03

From our E10 Desk Apr 03 by frequency:

2.626

00:30 28 April FTJ G80

3.150

00:01 22 April PCD2 * 00:30 28 April PCD G11+G25

3.270

22:15 09 April KPA2

3.360

23:45 09 April CIO2 * 23:45 10 April CIO2 23:45 25 April CIO2

3.640

00:45 02 April SYN2 * 22:45 02 April SYN2 * 23:45 09 April SYN2 * 23:45 10 April SYN2

19:45 21 April SYN2 * 23:45 25 April SYN2

3.840

01:04 02 April YHF G168

4.015

23:45 25 April VLB2

4.165

23:45 10 April CIO2 * 23:45 25 April CIO2

4.270

23:30 10 April PCD G103 * 23:31 20 April PCD G93+G51 * 23:30 25 April PCD G17

4.360

22:18 02 April KPA2 * 00:17 09 April KPA2 * 22:15 09 April KPA2 * 22:15 20 April KPA2

19:15 21 April KPA2 * 23:00 27 April KPA2

4.461

23:00 13 April FTJ G13 * 00:01 26 April FTJ2

4.780

00:17 09 April MIW2 * 22:15 20 April MIW2

4.880

00:02 09 April ULX G26 * 23:00 09 April ULX G12 * 00:01 26 April ULX G35

5.091

22:31 10 April JSR G37 * 21:00 13 April JSR2 * 19:30 17 April JSR G18 * 23:01 25 April JSR G63

5.170

00:45 02 April VLB2 * 22:45 02 April VLB2 * 23:45 09 April VLB2 * 23:45 10 April VLB2

19:45 21 April VLB2 * 23:45 25 April VLB2

5.230

00:45 02 April CIO2 * 22:45 02 April CIO2 * 23:45 09 April CIO2 * 23:45 10 April CIO2

19:45 17 April CIO2 * 23:45 25 April CIO2

5.339

00:17 02 April KPA2 * 00:17 09 April KPA2 * 22:15 09 April KPA2 * 04:15 18 April KPA2

20:15 20 April KPA2

5.435

00:01 02 April PCD2 * 01:02 02 April ART2 * 23:32 08 April ART G69 * 23:00 25 April ART G93

23:00 27 April ART G93

6.270

23:00 02 April ULX2 * 00:02 09 April ULX G26 * 23:00 27 April ULX2

6.370

00:45 02 April SYN2 * 23:45 10 April SYN2 * 19:45 17 April SYN2 * 23:45 25 April SYN2

6.498

23:30 10 April PCD G103 * 23:31 20 April PCD G93+G51

6.840

23:17 08 April EZI G84 * 22:30 10 April EZI G21

6.912

22:45 02 April VLB2 * 23:45 10 April VLB2 * 19:45 17 April VLB2 * 23:45 25 April VLB2

6.986

00:01 01 April ART G46 * 20:00 20 April ART2

7.445

22:19 09 April MIW2 * 04:15 18 April MIW2 * 22:15 20 April MIW2 * 19:15 21 April MIW2

23:15 27 April MIW2

8.805

07:00 17 April PCD1 (*RN GB)

9.128.7

20 :03 17 April EZI G80

9.130

16:30 17 April EZI G79 * 04:00 18 April EZI G28 * 21:30 25 April EZI G88 * 20:02 26 April EZI G75

9.202

19:30 16 April YHF G82 * 19:30 20 April YHF G83

10.648

19:30 16 April YHF G82 * 19:03 17 April YHF G72 * 19:30 20 April YHF G83

19:01 21 April YHF G72 * 21:32 25 April YHF2

14.530

21:32 25 April YHF2

E10 Comments April 03

In a moment of madness I undertook to listen for a concentrated period of almost 3hrs and the following were heard at these times and freq's on the 12th/13th April. Nothing spectacular occurred but it emerged that 14 individual callsigns used 20 different Freq's and only 6 of them actually sent group messages during that time. I did not make note of the group messages. Even though these are the more common networks it highlights the amount of activity that goes on each day, plus all the other networks that you did not hear, and gives some indication of the transmitting schedules. (None of the below are included in the above)

21:30	ULX 4.880/6.270	JSR 5.091	ART 5.435	EZI 6.480	
21:45	SYN2 3.640/6.730	VLB2 5.170/6.912	CIO2 5.230		
22:00	ART2 5.435	JSR 5.091	ULX 4.880	YHF 5.820	PCD 6.498
22:15	KPA2 5.339/4.360	MIW2 7.445			
22:30	ULX 4.880	JSR 5.091	ART 5.435	EZI 6.840	PCD 6.498
22:45	SYN2 3.640/6.370	VLB2 5.170/6.912	CIO2 5.230/3.360	YHF2 5.820/4.560	
23:00	ART 5.435	JSR 5.091	ULX2 4.880/6.270	EZI 6.840	YHF 5.520/3.840
23:15	KPA2 5.339/4.360				
23:30	ART 5.435	EZI 11.565			
23:45	SYN2 6.370/3.640	VLB2 5.170/6.912	CIO2 5.230/4.165		
00:01	YHF2 4.560	ULX 4.880/6.270	ART 5.435/6.986		

I have noted of late that EZI who transmits on 9.130 USB with reasonable clarity, has on occasions been shifting frequency to 9.128.7 USB and then reverting back on the next transmission time. EZI also has a tendency to end its transmission abruptly without the expected end of message, end of transmission sequence

A contribution from RN(GB) was much appreciated, it gave us another five freq's to monitor. He also heard PCD1 on 8.805 on the 17April at 0700hrs which I have included in the log (Tx RN GB)

For the third month on the trot I have not managed to hear a Special Header or even a variation in the normal c/s. It would be interesting to know if anyone else has had any luck. I have included a second report covering the first four months of this year giving c/s, last date and frequencies, as heard at this location and as you see not a great deal as yet.

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E10 Monitored Networks & Callsigns Commencing Jan 03 to Apr 03 [As at 28 April 03].

<u>Special Headers</u>	<u>Date Last Heard</u>	<u>Frequencies Used</u>
CIO10Z2	15 Jan 03	7.811
CIO2Z92	30 Jan 03	4.165 * 7.605
VLBM6	16: Jan 03	5.230
VLB12	14 Jan 03	5.230

VLB16	16 Jan 03	5.230
<u>Callsign</u>	<u>Date Last Heard</u>	<u>Frequencies Used</u>
ABC	03 Feb 03	6.428
ART	27 April 03	5.435 * 6.986 * 5.437 * 3.417
ART2	20 April 03	5.435 * 5.437 * 6.986
CIO	02 Mar 03	4.165
CIO2	25 April 03	7.811 * 4.165 * 3.270 * 7.605 6.930 * 5.170 * 5.230 * 3.360
EZI	26 April 03	9.130 * 11.565 * 17.410 * 6.840
EZI2	24 Mar 03	6.840
FTJ	28 April 03	4.461 * 2.626
FTJ2	26 April 03	4.461
JSR	25 April 03	5.091
JSR2	13 April 03	5.091
KPA	13 Mar 03	6.370 * 4360
KPA2	27 April 03	4.360 * 7.445 * 6.370 * 6.930 5.339 * 3.270
MIW2	27 April 03	6.912 * 8.127 * 3.640 * 5.230 4.780 * 7.445
PCD	28 April 03	3.150 * 4.270 * 6.498
PCD2	22 April 03	4.270 * 3.150 * 6.498 * 5.435
SYN2	25 April 03	7.605 * 6.370 * 7.811 * 3.640 5.230 * 4.780
ULX	26 April 03	4.880 * 6.270
ULX2	27 April 03	6.270 * 4.880
VLB	02 Feb 03	5.230
VLB2	25 April 03	5.230 * 3.230 * 4.015 * 5.339 5.170 * 6.912
YHF	21 April 03	5.820 * 3.840 * 7.918 * 9.202 10.648
YHF2	25 April 03	5.820 * 3.840 * 4.560 * 10.648 14.530

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E11

10125kHz 0800z 06/03 [232/00]
0800z 11/03 [232/00] from Ben Mesander, US via Spooks.
11116kHz 0800z 07/03 [232/00]
0800z 14/03 [232/00]
0800z 28/03 [232/00]

10125kHz 0800z 17/04 [232/00]
0800z 24/04 [232/00]
11116kHz 0800z 11/04 [232/00]

E15

We print the known schedule [as prev issue 6]:

1100z 1800kHz	BEC	1700z 1400kHz	FYS	2100z 4130kHz	MSA
1200z 1750kHz	WSP	1730z 5834kHz	MSA		
1230z 11170kHz	OSS	1800z 5834kHz	WSP		
1300z 11000kHz	BEC	1900z 4130kHz	PAR		
1400z 14000kHz	FYP	2000z 5530kHz	NAS		
1630z 6715kHz	NAS	2030z 5530kHz	BEC		

E17z

Here is a new sending as heard by AnonUK:

10240kHz 1235z 10/04 [274 + 20grp message]

E18

E23

Best frequency is usually 8188kHz. 4 weekly cycle starting on the first Monday of the Month.

Transmits Monday Wednesday and Thursday:

Week 1 0957z 6507kHz 1157z 8188kHz 1257z 5340kHz
Week 2 0957z 7250kHz 1157z 8188kHz 1257z 5748kHz

Week 3 0757z 4832kHz 0957z 6200kHz 1157z 8188kHz 1257z 6507kHz
Week 4 0757z 5340kHz 0957z 8188kHz 1157z 7250kHz
Week 4 in AM only.

17-Mar-03, Monday, 1209z, 8,188 kHz, E23 with American Accent "Cynthia" voice, 5Fs as doubles, USB, weak signal, transmission in progress. [PoSW]

RN [GB] heard:
8188kHz 1150z 19/03 [50980 80315..] // 6507

E25
Nil Reports.

G04
01/03 4210 4220, 02/03 4280 4380, 03/03 4750 4850, 04/04 5210 5310

4750kHz 2100z 06/03 [34678]
4850kHz 2130z 06/03 [34678]

5210kHz 2000z 03/04 [57231]
5310kHz 2030z 03/04 [57231]

For May: 4830/4930kHz and for June try: 5220/5320kHz

G06
One new appearance noted - there was a G06 transmission on Saturday 1 - March at 2200 UTC on 5,781 KHz, a very strong signal, "112 112 112 00000". Carrier with tone had been noted 2146z. Not heard on the following Saturday.
RN discovered:
5442kHz 1930z 28/03

From AF we receive this snippet of that also found by RN GB:

AF: 2003-03-28 19:30-19:42 5442 usb g06

947
123 45
56500 29103 06935 89106 72156 23698 50341 80357 27954 03614
64464 99425 58436 42653 26163 33579 99044 30638 22576 84552
86519 11088 55690 75029 36482 43278 62207 55000 22574 95298
99804 46474 58129 49143 98360 56043 29724 91498 23857 36581
77532 02054 44050 71326 35779
123 45
00000

This message has been sent on 14th March already but with a different ID (579)... So can we really assume that the "ID" identifies the recipient? Can that be an agent-number?
I doubt that. Agent1 must be unable to decipher messages for agent2. So it is nonsense to send the same message to two different agents! Or does "123" identify an universal key? But then it would not be necessary to send the same message twice. Strange...
[Nice one AF!]

PoSW lists the schedules:

Friday Evening Schedule

14-Mar-03, 1930z, 5,442 kHz, calling "Funef sieben neun" (579), DK/GC "Eins zwei drei" (123) x 2, "Vier funef" (45) x 2. Good signal, lower sideband suppressed, voice of normal pitch and speed of delivery - not always the case with this Friday Night Fraulein. Slight background buzz on the transmission.

28-Mar-03, 1930z, 5,442 kHz, calling "Neun vier sieben" (947) - not the same call as when last heard on 14-March - but the DK/GC WAS the same, i.e. "123 123 45 45". Strong signal, lower sideband well suppressed.

11-Apr-03, 1930z, 5,442 kHz, calling "Neun vier sieben" (947), DK/GC "Zwei eins drei" (213) x 2, "Vier vier" (44) x 2. With a distinct background buzz, lower sideband well suppressed; also, the carrier was very much reduced in amplitude which gave the transmission a single sideband quality. It was difficult to hear with the receiver switched to AM mode, had to be copied in USB. This has not been noticed with G06 or related number stations before, but something similar was observed on an S10d Czech YL transmission on 1-April.

First Monday in the Month Schedule

3-Mar-03, 2000z, 6,785 kHz, "Drei null acht" x 3, "Null" x 5 (308 308 308 00000). Difficult copy due to QRM from an S9+ RTTY/FSK transmission. This must have been the second sending; no sign of the first at 1900z on a higher frequency - must have been around somewhere!

7-Apr-03, 1900z 9,220 kHz. "308 308 308 00000", no message, as last month. There were several breaks in the transmission, each lasting a few seconds. As if to compensate for this when the voice stopped after the usual 4 minutes there was a short pause followed by a further 50 seconds of the transmission.

2000z, 7,680 kHz, second sending of "308 308 308 00000". No problem in finding this schedule tonight; the same frequencies were used in April last year.

Other G06 transmissions

15-Mar-03, Saturday, 2200z, 5,781 kHz, G06 German YL with "Eins eins zwo" x 3, "Null" x 5 (112 112 112 00000). Strong signal, lower sideband suppressed. This was also heard on Saturday 1- March but did not appear last Saturday.
[Tnx PoSW]

PLondon also had some success with G06:

5442kHz 1930z 11/04 [947 0123/44 58517-00000] PLondon noted a carrier at 1845z and part transmission 'seven acht neun..' S9+ throughout sending - in South London.

G19[??]

Maciej Sebastian Muszalski (Miles) heard a G19 'sound alike' and produced a .wavfile of his find.

5315kHz 1243z 18/04 [732 + 5f grps]

ENIGMA 2000's Mike of Kent writes: "A very interesting logging. Similarities with the "old" G19 station, pity the ending wasn't recorded. The G19 (Family IA) was last logged on Sat 25 Nov 1995, 2100z, on 5233kHz. Its significant ending "000000" stood it out against the other G stations, and it used the same voice as the "live" G01 (Tyrolean Music) station. The voice in this recording is certainly NOT the original G01/G19 voice and the delivery is slightly faster, however the characteristic "hum" on the carrier is still there. Difficult to believe that G19 has been around for the past 9+ years without being noticed!"

Mike also queried the mode used as AM - Miles later emailing, via Spooks, that he was set-up for USB. Is this a rehash of this previous 1A family station? Note that the polytone station XP has been queried as having a link with 1A -- there have been a few anomalies with the XP transmissions [as shewn in the relevant section].

Ary has posted a sound sample of this on his N&O site.

AnonUK writes, "It sounds very much like G19 that was mentioned in the old Enigma Issue 8, although the control list gives it as ending 000000. Possibly the 6 zeros are a mistake, as it sends groups twice. There is an example of it on the Conet Disc 2, the pronunciation is exactly the same. Very odd that it has appeared again after not being heard for many years."

G22

From Gert and AF:

4822kHz 2300z 20/03 [186 nr236 gr20=20668]
0030z 21/03 [186 nr236 gr20=20668]

Again, before the 'Snn' logs. We hear from our Slavic Desk, ably run by DoK:

More observations concerning S10D, M10 and S17C:

I spoke too soon in the last newsletter [page 12 NL15]. The changes came a month earlier than I anticipated and other work planned has been delayed.

The following chart is dated from Saturday 01/03 [Frequencies shewn in close proximity are parallel, S prefix to time denotes S10D]:

Chart 4 Revised from 01/03 changes

Freq kHz	Sun	Mon	Tues	Wed	Thurs	Fri	Sat
4485 6758	0210	0210	0210	0210	0210	0210	0210
3522 4485	0400	0400	0400	0400	0400	0400	0400
6763	0410	0410	0410	0410	0410	0410	0410
13403				S0820	S0820		
14445				0840	0840		
14337			1120	1120	1120	1120	
8190 5301	1250	1250	1250	1250	1250	1250	1250
8190	1410	1410	1410	1410	1410	1410	1410

9160							
8175		1410	1410				
8175						S1520	
9986							
14565				1530	1530		
5027	1610	1610					
7605			1640				
7745	1630	1630		1630			1630
5078							
8112		1700	1700				
5076							
7475	1720	1720	1720	1720	1720	1720	1720
11417							
6945		S1740	S1740				
10582							
5945	1800				1800		
9385				S1820	S1820		
7745							
5945	1920	1920					
10125							
7745			1950		1950		1950
9165							
8112			S2100	S2100			
5301							
3522	2100	2100	2100	2100	2100	2100	2100
4783							
5473					S2130		S2130
6894							
3522		2200	2200				
4485							
5945		2200	2200				

It will be seen that I have altered the presentation in terms of Time, now starting from top to bottom. Most of the schedules are fixed but details of exceptions now follow.

The 0140z transmission recently found by MS [see N&O59] overlaps the 0400z sending and looks like another seven day transmission, to be confirmed.

The heading on this transmission has been 444 and 777; I have also heard 888.

The 13 to 14MHz frequencies are dealt with below in more detail.

The S17C 1250z sending is included as I consider it an integral part of this group.

8190/9165kHz appeared shortly before the change sending a 14 to 20 group message daily to a single ID832. It has now ceased and was last heard on Friday 14th March. [Broadcasting the changes]?

The 8175kHz 1410z transmission continues.

The 1610z, 1700z and S2100z schedules are not fixed and do miss weeks.

It will be seen that a number of parallel frequencies have yet to be discovered [if they exist], also from time to time some parallels remain silent.

A question has arisen regarding repeats of transmissions, suffice it to say that in March, 62 were repeats out of the 152 I logged.

Due to the jammer on 8112kHz the frequency remains a virtual 'no go'. 5945kHz can also be a problem if the signal is poor, having to compete with Radio Austria International and others.

The S10D transmissions at S1820 appear to come up on the same days as S0820. They repeat the identical transmission sent at S0820.

The 13 to 14MHz details now follow. [When an expected transmission did not take place NRH is shown].

Chart 4A [All times 'z', dates dd/mm 03]

Freq kHz	Tuesday Date Time	Wednesday Date Time	Thursday Date Time	Friday Date Time
13403		26/02 NRH 26/03 S0820 09/04 S0820 23/04 S0820	27/02 S0820 27/03 NRH 10/04 NRH 24/04 S0920	
14445		05/03 0840 19/03 0840 02/04 0840 16/04 0840	06/03 0840 20/03 0840 03/04 0840 17/04 0840	
14565			06/03 1530 20/03 1530 03/04 1530 17/04 1530	07/03 1530 21/03 NRH 04/04 1530 18/04 1530
14377	11/03 1120	05/03 1120 12/03 NRH	06/03 1120 13/03 NRH	14/03 1120

I hope these charts are of interest to all concerned. They are the last for the time being but I will publish details of changes in the forthcoming newsletters.

In my last piece [page 13 NL15] I included a 'way out' theory to provoke thoughts and discussion on S17C; well done HFD.

In his travels DoK also reported hearing an S06: 14565kHz 1620z 05/03 and again 1614z 18/03 [ended 1634z], then 1630z 26/03 [null msg] DoK remarked that S06 comes up on 14565kHz on the days that S10D doesn't.

Finally my thanks to AB, AnonUK, HFD, MS[US], PLondon, PoSW and RN GB for info, suggestions and comments and E for input from his log. DoKent would be interested to learn who the first person will be to receive the first American voiced YI on 20 metres; a lot of American forces motto is 'have transceiver, will travel!' ©DoKent 29/04/03

[E2k is in possession of an early YI2AM qsl card. YI2AM was the club call at RAF Habbaniyah. E2k would be interested to hear from any persons who served at RAF Habbaniyah].

S04

3868kHz 2145z 08/04 [342 236] mode:LSB from RN GB

S06

RN writes Russian Man this evening on 7900 kHz at 1800z, lower side band suppressed. 2 messages, missed start of first but ended 350 19 168 (repeated) then 937x2 24x2 72810 (24 groups). Mistakes were made in transmission and the group was restarted after several 168s !

6920kHz 1830z 13/03 [975 285 43 67969]

7900kHz 1800z 02/03

8080kHz 2100z 03/03 [read RN's comments]:

Maybe it's a reflection of the Russian economy but this transmission kept breaking down and it took 3 attempts and 20 minutes to pass a 30 group message! Id '102' first group 29084, ended 958 30 00000

12190kHz 1730z 25/03 [126 803 74 95459 ends 00000]

12196kHz 1730z 18/03 [126 00000]

14561kHz 1630z 04/03 [749 126 126 32 32]

RN also sent:

17430kHz 1400z 12/03 [267/105=16567]

1400z 19/03 [493dk267gc105] occurs every tues/wed.

PoSW's log:

22-Feb-03, Saturday, 1600z, 7,952kHz, fourth Saturday in the month means S06 activity, "Adean pyat adean" x 3, "Noll" x 5 (151 151 151 00000), strong signal, lower sideband suppressed, also heard on the second Saturday in the month, 8-Feb.
 1700z, 10,384kHz, S06 calling "Deviet null cheteria" (904), DK/GC "Adean dva tri" (123) x 2, "Syem pyat" (75) x 2, same as when heard on 8-Feb.
 1800z, 8,065kHz, repeat sending of "904" and "123 123 75 75".
24-Feb-03, Monday, 2116z, 8,080kHz, S06 with "Dva null shesht" x 3, "Noll" x 5 (206 206 206 00000), strong signal, lower sideband suppressed, stopped 2119z.
3-Mar-03, Monday, 2100z, 8,080kHz, S06 calling "Adean null dva" (102) but appeared to have a problem; the call - up stopped after a couple of minutes and audio tone came up, then back to the call. The DK/GC not reached until 2106z, "Deviet pyat vosyem" (958) x 2, "Tri noll" (30) x 2. There were several breaks in the transmission where the voice stopped for a minute or more, then went back to calling "102" for a minute then returned to the 5Fs. End of transmission not reached until just after 2120z.
4-Mar-03, Tuesday, 1900z, 5,762kHz, S06 with "Adean syem shesht" x 3, "Noll" x 5 (176 176 176 00000). Strong signal, lower sideband suppressed.
8-Mar-03, Saturday, 1600z, 7,952kHz, "151 151 151 00000" - exactly as last month. Very strong signal, speech somewhat distorted, lower sideband suppressed.
 1700z, 12,190kHz, second Saturday in the month S06 calling "Shesht syem adean" (671), the DK/GC the same as heard on the second and fourth Saturdays in February, "123 123 75 75"
 1800z, 10,460kHz, repeat sending of "671" and "123 123 75 75".
10-Mar-03, Monday, 0622z, 7,940kHz, early morning S06 in progress, very strong signal, lower sideband not quite as well suppressed as your average S06. Ended with "Syem shesht dva" (762) x 2, "Adean null vosyem" (108) x 2 and 5 X "Noll".
 0727z, 10,830kHz, S06 in progress, ended 0733z with the same DK/GC as the earlier transmission, "762 762 108 108 00000" so a repeat sending on a higher frequency. Strong signal with the lower sideband suppression much better than with the first sending.
11-Mar-03, Tuesday, 0713z, 10,830kHz, S06 calling "Cheteria null deviet" (409), then the DK/GC noted yesterday, "762 762 108 108", so a next day repeat. Signal much weaker than yesterday, strength S6 to S7.
13-Mar-03, Wednesday, 0831z, 9,255kHz, S06 with "Cheteria syem adean" X 3, "Noll" x 5 (471 471 471 00000). Weak signal, stopped 0833z so must have started at 0829z if it was of the usual four minutes duration.
 0840z, 9,260kHz, another S06 just 5kHz up from the one heard a few minutes earlier. "Tri dva vosyem" x 3, "Noll" x 5 (328 328 328 00000). Much stronger than the earlier Russian Man, peaking strength S9 with QSB. Both sidebands of about the same amplitude, unusual for an S06.

6778kHz 2009z	18/03 [Bad QRM]
6795kHz 2014z	19/03 [270] 'E' notes Groups 11111, 00035, 00040 hrd several times noting Iraqi war started 19/03.
7720kHz 2230z	19/03 [726] very bad sigs
10206kHz 2130z	19/03 [726 390 00000]

Of April sendings PoSW remarks, "The S06 Russian Man continues to be the most active member of this family of stations although many transmissions are of the "00000" - no message format."

13420kHz 0700z	02/04 [729 00000]
0700z	09/04 [729 00000]
0700z	16/04 [729]
15820kHz 1600z	date? [724x3 00000]

17-Mar-03, Monday, 1000z, 9,225 kHz, S06 calling "Cheteria vosyem null" (480), then DK/GC "Dva shesht syem" (267) x 2, "Cheteria pyat" (45) x 2. Signal strength S5 to S6 at best. Lower sideband suppressed, carrier with tone noted about 10 minutes earlier.
 1200z, 9,145 kHz, "Vosyem tri adean" x 3, "Noll" x 5, (831 831 831 00000), weak signal, carrier with tone noted 1140z.
18-Mar-03, Tuesday, 1630z, 14,560 kHz, "Adean dva shesht" x 3, "Noll" x 5 (126 126 126 00000), strength S7, lower sideband well suppressed.
19-Mar-03, Wednesday, 1904z, 8,060 kHz, transmission in progress, peaking S9, lower sideband well suppressed. Ended just after 1912z with "Voyem syem shesht" x 2, "Adean noll pyat" x 2 and 5 x "Noll" (876 876 105 105 00000).
 2010z, 6,795 kHz - this S06 was heard as sideband splash starting up while keeping watch on a strong carrier on 6,790 KHz which at 2015z turned out to be an E06 English Man transmission. Calling "Dva syem noll" (270), then DK/GC "Deviet tri pyat" (935), "Tri" (3), a very short message then - which was "11111 11111 00035 00035 00040 00040". Ended the usual way 2015z. In the past these very short group counts have been noted as part of a two message transmission, the second with a much higher group count but this was not the case today.
22-Mar-03, Saturday, 1600z, 7,952 kHz, S06 with "Adean pyat adean" x 3, "Noll" x 5 (151 151 151 00000), very strong signal, S9+, lower sideband well suppressed. A similar transmission was logged on Saturday 8-March. The S06 Russian Man can usually be found in the late afternoon and early evening, UK time, on the second and fourth Saturdays in the month.
 1700z, 12,190 kHz, calling "Shesht syem adean" (671), then DK/GC "Vosyem dva deviet" (829) x 2, "Adean adean pyat" (115) x 2. Signal strength S8, lower sideband well suppressed.
 1800z, 10,460 kHz, repeat sending of "671" and "829 829 115 115"
24-Mar-03, Monday, 2117z, 8,120 kHz, S06 calling "Pyat tri deviet" x 3, "Noll" x 5 (539 539 539 00000), stopped 2119z.
1-Apr-03, Tuesday, 1730z, 13,950 kHz, calling "Noll tri shesht" (036), then DK/GC "Vosyem syem adean" (871), "Pyat shesht" (56) x 2. Strong signal with the lower sideband well suppressed.
 1811z, 6,815 kHz, S06 in progress with "Shesht dva cheteria" x 3, "Noll" x 5 (624 624 624 00000). Good signal but close to an even stronger wide - shift RTTY signal. Stopped 1813z so must have started at 1809 if it was of the usual 4 minutes.
 1853z, 9,145 kHz, "Dva pyat cheteria" x 3, "Noll" x 5 (254 254 254 00000), the last few seconds of a transmission, stopped 1854z.

1900z, 5,762 kHz, yet another S06, very strong signal, carrier with tone had been noted 1845z, "Adean syem shesht" x 3, "Noll" x 5, (176 176 176 00000), lower sideband suppressed.

2-Apr-03, Wednesday, 1730z, 13,950 kHz, a next day repeat of yesterday's "036" and "871 871 56 56".

9-Apr-03, Wednesday, 1730z, 13,950 kHz, calling "Null tri shesht" (036), DK/GC "Cheteria pyat syem" (457) x 2, "Tri deviet" (39) x 2 - this schedule noted in operation last week.

12-Apr-03, Saturday, 1800z, 11,150 kHz, second Saturday in the month S06; must be the second sending, unable to find the first sending at 1700z on a higher frequency; thought it might be in the 14MHz band but nothing found. Calling "Vosyem dva pyat" (825), then DK/GC "Vosyem dva deviet" (829) x 2, "Adean adean pyat" (115) x 2, which was the same as heard on the fourth Saturday in March. Signal strength up to S9 but with deep QSB down to a much lower level. Lower sideband well suppressed, ended 1824z (7.24 PM BST) with DKDK GCGC and 5 x "Noll".

16-Apr-03, Wednesday, 0544z, 6.44 AM BST, 7,590 kHz, S06 repeating the same 5F group over and over ("Stutter group"?), "Adean adean syem adean pyat" (11715), weak signal with all sorts of QRM, stopped 0546z.

Finally, from 'E':

5757kHz 1911z 13/04 [c/s 25 44grps].

S06C

RN heard the following:

14480kHz 0700z 19/03 [11160]

S10D

PoS W suggests that there may be a new sched unfolding, 'S10D Czech YL; possibly a new schedule, Saturdays at 2130z on 5,473 kHz; this has showed up on two Saturdays in a row so may be a regular fixture:-

1-Mar-03, calling "555 555 555 649 649 649 35", then "77 77 35 35" and usual format. Very strong signal, carrier with tone had been noticed at 2118z.

8-Mar-03, "555 555 555 559 559 559 47", then "559 559 559 52 52 47 47". Message a little bit longer than average, I thought; "Konets konets" at 2144z.

The Saturday 1520z schedule on 8,175 KHz continues in March.'

Interesting situation noted on Tuesday 11 - March; 2100 UTC, 5,301 // 8,112 KHz - M10 Morse transmission but also the S10D Czech YL voice could be heard underneath! M10 was the easier of the two modes to hear and was calling "555 555 555 720 720 720 29 698 698 698 26". The Czech YL was calling "555 555 555 923 923 923 39 039 039 039 29". Sounds similar to to situation reported by "RN" on page 16 of issue 15 of E2K newsletter.

UPDATE:- 5,301 // 8,112 noted 2100z on Wednesday 12-Mar but this time only the S10D YL heard, no M10 Morse! Strong signals, S9 to S9+ on both frequencies.

6894kHz 2130z 13/03 [555 793 40 793 18 40 75890..] // 5473
6945kHz 1740z 24/03 [218 40 163 29 555 218 40 163.....]
7745kHz 1820z 10/04 [555 685 37 686 29 37..]
8112kHz 2100z 12/03 [039 29 555 923 39 039 01 39 pozor 51985]

He further offers:

Saturday 1520z 8,175 kHz Schedule

15-Mar-03, "440 440 440 71 71 27 27".

22-Mar-03, "784 784 784 60 60 31 31".

Signal weaker than usual, strength S6.

29-Mar-03, "447 447 447 55 55 20 20".

5-Apr-03, "741 741 741 47 47 42 42".

Continues in April and has stayed on UTC with the start of summertime so now appears at 4.20 PM BST.

12-Apr-03, "991 991 991 75 75 21 21".

Saturday and Thursday 2130z 5,473 // 6,894 kHz Schedule

13-Mar-03, Thursday, "793 793 793 18 18 40 40".

This schedule first noticed Saturday 1-Mar on 5,473 kHz; I hadn't realised it appeared on Thursdays or that there was a // on 6,894 kHz until today. Very strong signal on both frequencies.

15-Mar-03, Saturday, "793 793 793 18 18 40 40" - as on Thursday.

27-Mar-03, Thursday, "775 775 775 73 73 35 35".

Strong signals on both frequencies.

10-Apr-03, Thursday, "199 199 199 41 41 42 42".

Buzzing noise QRM on 5,473 kHz, 6,894 very strong signal. Has stayed on UTC so now appears at 10.30 PM BST.

12-Apr-03, Saturday, "199 199 199 41 41 42 42", as on Thursday.

17-Apr-03, Thursday, "184 184 184 37 37 32 32".

Very strong signal on both frequencies.

26-Apr-03, Saturday " 766 766 766 62 62 29 29" XJT causing QRM at time of monitoring.

5,301 // 8,112 KHz schedule

25-Mar-03, Tuesday, 2100z, 5,301 // 8,112 kHz, two message variant, "839 839 839 20" and "278 278 278 34", then "839 839 839 46 46 20 20" and first 5F message.

5,301 strong signal, 8,112 flattened by "Jet".

26-Mar-03, Wednesday, 2100z, 5,301 // 8,112 kHz, a repeat of yesterday's two messages. Strong signals on both frequencies; 8,112 much stronger than yesterday.

New S10d Schedule ?

1-Apr-03, Tuesday, 1746z, 6,945 kHz, transmission in progress, strong signal, the carrier seemed to be greatly reduced in amplitude compared with the usual S10d mode, i.e lower sideband suppressed but with full carrier; it gave the transmission a single sideband quality and was much more readable with the receiver in USB mode. At 1751z finished one 5F message with "70 70 30 30", then called "732 732 732 68 68 34 34" and into another message.

14-Apr-03, Monday, 1747z, 6,945 kHz, same schedule as noted on 1-April, but today had the normal level of carrier; ended a message at 1750z with "99 99 26 26", then "186 186 186 47 47 31 31" and another message, usual S10d style ending at 1756z with "Konets konets".

[This is confirmed as a regular fixed Monday and Tuesday Schedule -- see DoK chart 4, this issue].

S10E

Nil Reports

S11a

4016kHz 2100z 02/04 [972/00] Tnx RN GB

S17C

As from March 1st S17C changed its frequency from 9165kHz to 8190kHz // with 5301kHz, about which we received numerous reports, thanks all. Interesting to note that DoK telephoned e2k at 1252z on 01/03, you can't get better than that short of being notified in advance!

5301kHz 1250z 01/03 [11036] // 8190
1250z 01/04 [98038]
8190kHz 1250z 01/03 [11036] // 5301
1250z 01/04 [98038]

01/03 11036, 02/03 98036, 03/03 11036, 04/03 91039, 05/03 11039, 06/03 73027, 07/03 99036, 08/03 90039, 09/03 91034, 10/03 unreadable, 11/03 94049, 12/03 95046, 13/03 72034, 14/03 91033, 15/03 84044, 16/03 90036, 17/03 10037, 18/03 NRH, 19/03 99037, 20/03 11037, 21/03 98036, 22/03 98036, 23/03 99037, 24/03 98036, 25/03 10036, 26/03 99037, 27/03 98037, 28/03 98036, 29/03 10036, 30/03 99037, 31/03 99037.

01/04 98038, 02/04 unreadable, 03/04 99034, 04/04 71037, 05/04 98036, 06/04 NRH, 07/04 73028, 08/04 NRH, 09/04 NRH 10/04 88033, 11/04 73028, 12/04 68028, 13/04 73041, 14/04 85035, 15/04 85035, 16/04 89035, 17/04 75048, 18/04 78032, 19/04 76023, 20/04 87034, 21/04 unreadable, 22/04 76024, 23/04 91045, 24/04 unreadable, 25/04 78041, 26/04 91044, 27/04 84031, 28/04 78040, 29/04 76045, 30/04 unreadable.

S21

4454kHz 1842z 11/03 [454 358 61 BT 03960 54040...] AM very bad AF via Spooks
4854kHz 1842z 11/03 [454 358 61 BT 03960 54040...] AM very bad

April's S21 logs kicks off with PoSW's observation: 3-Apr-03, Thursday, 1857z, 4,854 kHz, S21 I think, Russian YL with 5Fs as doubles, with background buzz, the lower sideband seemed to be of greater amplitude than the upper, ended with 3 x "Noll" shortly after being tuned in. Was also heard on Thursday 10-April with a very weak signal, difficult copy. [And herad by RN GB]:

4454kHz1842z 10/04 [454 181 31 88314 23623] // 4854kHz tnx RN GB
4854kHz1842z 10/04 [454 181 31 88314 23623] // 4454kHz

"Spanish Lady" transmissions in GB and Europe.

Before moving on to the specific logs of V02 and V02A PoSW took time to share his logs for these stations, illustrating that even at this time of poor conditions reception of Cuba's signals is still a possibility. You will note that other GB based monitors have heard this station also. PoSW's observations:

21-Feb-03, Friday, 2208 UTC, 8,492 kHz, heard after 2200z on Friday late evenings, UK time, with good signals in November, December and January; this V02 Spanish language transmission has now become much weaker as we move towards the spring.

22-Feb-03, Saturday, 0728z, 9,153 kHz, V02 in progress, strength S7 to S8, slight utility QRM.

24-Feb-03, Monday, 2129z 8,136 kHz, surprised to find the V02 YL on a Monday evening. Signal strength S7 but distorted audio and with a severe background buzz. Ended with 3 x "Finale" just after 2145z. The carrier, complete with buzz, stayed on until 2201z.

8-Mar-03, Saturday, 0718z 9,153 kHz, transmission in progress, very weak signal, only just detectable.

10-Mar-03, Monday, 0807z, 9,268 kHz, transmission in progress, very weak signal.

12-Mar-03, Wednesday, 0701z, 9,063 kHz, V02 starting up with "Atencion, cinco cinco nueve ocho uno; dos cero uno cuatro dos; siete uno seis siete uno" (55981 20142 71671), then "55981" repeated several times and into 5Fs 0703. Signal strength S6 to S7 at the start and became a bit stronger as the transmission progressed.

13-Mar-03, Thursday, 0700z UTC, 9,153 kHz, V02 starting up with "Atencion, 55982 51923 71672". Strong signal, the strongest V02 for some time, peaking S9 with a rapid flutter effect. Ended just before 0746z with 3 x "Finale".

17-Mar-03, Monday, 2113z, 8,136 kHz, this evening V02 noted last month, still around in March but now very weak.

20-Mar-03, Thursday, 0712z 9,153 kHz, transmission in progress, good signal.

24-Mar-03, Monday, 0634z, 9,331 kHz, V02 in progress, weak but clear.

2101z, 8,136 kHz, starting up with "Atencion, tres siete cinco cinco dos; cuatro seis seis cuatro uno; cero nueve siete cinco uno" (37552 46641 09751), then "37552" repeated five times and into 5Fs 2103z. Very weak signal.

26-Mar-03, Wednesday, 0636z, 8,010 kHz, transmission in progress, good signal but with QRM.

0701z, 9,063 kHz, starting up with "Atencion, 64143 95343 21541", weak signal.

27-March-03, Thursday, 0633z, 8,097 kHz, transmission in progress, strength S7 with deep QSB.

0700z 9,153 kHz, starting up with "Atencion, 68471 41441 21542", weak signal, difficult copy.

31-March-03, Monday, 2100z, 8,136 kHz, has stayed on UTC with the start of summertime so now turns up at 10 PM BST. Very weak, only just detectable, unable to make out the numbers.

3-Apr-03, Thursday, 0538z, 8,097 kHz, transmission in progress, strength S6 to S7.

0600z, 8,097 kHz, started up again on the hour with "Atencion, 82521 41443 60872".

5-Apr-03, Saturday, 0631z, 8,097 kHz, V02 in progress, good signal, up to strength S9.

0718 UTC, 9,153 kHz, good signal, QRM from a utility station.

6-Apr-03, Sunday, 0727z, 6,837 kHz, V02 transmissions on Sunday mornings, UK time, seem to have been few and far between during the winter months. This was a transmission in progress, weak but clear, ended a couple of minutes later with 3 x "Finale".

11-Apr-03, Friday, 2205z, 8,658 kHz, a late evening V02 - 11.05 PM BST - transmission in progress, signal strength peaking S9, with background buzz. Not the same schedule noted on Friday evenings during the winter months (8,492 KHz).

12-Apr-03, Saturday, 0631z, 8,097 kHz, transmission in progress, strong signal, S8 to S9.

0700z, 9,153 kHz, V02 starting up with "Atencion, 62303 85652 52381", then "62303" repeated 5 times and into 5Fs. Signal strength S7 to S8.

13-Apr-03, Sunday, 0723z, 6,837 kHz, noted active last Sunday, just caught the end of the call - up; must have started around 0720z, I had been checking this frequency from time to time after 0700z, the last time being at approx. 0715z and there was nothing on 6,837 then, not even a carrier. A short format version of V02, calling "Atencion, uno tres dos siete seis" (13276). Signal stronger than last Sunday, S7 with slight QRM from a WEFAX station slightly LF. Ended just before 0730z with 3 x "Finale".

0803z, 9,230 kHz, transmission in progress, signal strength S6 with deep QSB, ended 0820z with only 2 x "Finale".

14-Apr-03, Monday, 2104z, 8,136 kHz, this schedule is still running in April but very weak, only just detectable

18-Apr-03, Friday, 0701z, 9,063 kHz, this frequency noted active on a Wednesday in March, starting up with "Atencion, 42752 49202 58763". [Thanks PoSW].

Now onto the logs taken from 'Spooks' or sent direct to E2k.

V02

8132kHz 0700z	30/03 [AM 132 95]
9080kHz 2202z	19/03 [836/921 53grps] 'E' GB
9153kHz 0705z	27/03 'E' GB
0730z	05/04 'E' GB
0722z	17/04 'E' GB

V02A

3292kHz 0400z	08/03 [A 11321 44911 04323]
4028kHz 0314z	08/03
0532z	27/03
0504z	04/04
4479kHz 0321z	16/04
5762kHz 0402z	08/03 [A 23411]
5800kHz 0317z	14/04
5883kHz 0500z	06/04
7990kHz 0600z	14/03 [A 55983 65221 71673] new sked?
8010kHz 0600z	18/03
0610z	04/04
0611z	09/04
0605z	23/04 'E' GB
8136kHz 2100z	10/03 RN in GB
2136z	14/03 RN in GB
2114z	21/03 RN in GB
9063kHz 0700z	18/03
0700z	26/03 RN in GB
0700z	02/04
0700z	16/04
11075kHz 2111z	19/03 'E' in GB
10446kHz 0300z	14/04
11565kHz 0400z	08/03 [AM very faint]

PoSW has noticed that the Spanish YL transmission heard on Friday 11-April-03 after 2200z on 8658kHz has not been heard on subsequent Fridays in April. PoSW finds this strange since the signal was of good strength.

Whilst it appears that the transmissions from V02/V02A have diminished that is not the case. A majority of reports from Great Britain suggests that the Cuban transmissions are not being monitored by American monitors as it used to. Perusal of the 'Spooks' archives illustrates that E10 is the 'flavour' for American monitors at this time.

V06

V06 caused a big surprise on Wednesday 19-March, on its return; there used to be a regular Friday V06 schedule but I lost track of it in the early months of 2001 and had not heard it since. This Spanish YL was logged at 2200z on 9,080 KHz, calling "Ocho tres seis" (836), then DK/GC "Siete dos uno" (721) x 2, "Cinco tres" (53) x 2, strong signal, lower sideband suppressed. The carrier had been noted at 2145z and it was a great surprise to hear a single spoken "836" in Spanish at 2149z. I have been unable to find V06 since 19-March so it may have been a "One off" rather than the return of a regular schedule. This particular day, 19-March, was the last before the war in Iraq began so I did wonder if a dormant operative was being re - activated here. [Excellent PoSW]!

9080kHz 2209z 19/03 [721 721 53 53 00000]

V07

Gert, HFD and RN [GB] notified us of the March freqs as:

0600z 14387kHz
0620z 16087kHz
0640z 17487kHz

Ben Mesander [US] reported via Spooks

14387kHz 0600z 13/03 [Weak]
16087kHz 0620z 13/03 [Weak]
17487kHz 0640z 04/03 [304:1-8415/84=22834] hfd

whilst PoSW reports: V07 Spanish YL;- noted on Tuesday 11- Mar-03, 0600z, 14,387 kHz and 0620z, 16,087 kHz, both very strong signals, "304 304 304 000". The third sending of a "Full message" transmission was noted on Thursday 6-Mar-03 at 0644z on 17,487 kHz.

PoSW's April observations on this station: The V07 Spanish YL has stayed on UTC and so now shows up at hour later clock time. Noted on Tuesday 15-Apr-03 at 0600z, 7AM BST, on 14,387 kHz, "Tres cero cuatro" (304) x 3, "Uno), DK/GC "Tres nueve siete ocho nueve" (397 89) x 2. This was the first sending and was the same frequency and "call" as in April last year. The other two sendings for those with the time to hear them should be 0620z, 16,087 kHz and 0640z, 17,487 kHz if they are also as April 2002.

RN GB sent in this April 0600z log:

14387kHz 0600z 01/04
0600z 15/04 [304]

and HFD:

14387kHz 0600z 17/04 [304:1-397/89=29251]
16087kHz 0620z 17/04 [304:1-397/89=29251]
17487kHz 0640z 17/04 [304:1-397/89=29251]

V08

No sign of the V08 Arabic YL at 1900z on 6,645 kHz, plus or minus a bit, on Saturday 1 - March, or the following Saturday; not found two months in a row. There was a very weak carrier on 6,647 heard under the SSB pirate racket but there didn't seem to be any mod. on it and I don't think it was V08. Also, nothing further heard of V08 at 1700z on 7,662 kHz as noted on 18-Jan. Beginning to wonder if the absence of V08 is connected in some way with the large number of arrests of "Persons of North African origin" in various European cities over the past few weeks.

Also mentioned by 'E' as 'No V08 today'; whilst PoSW remarks for April, "Nothing heard of the first Saturday in the month V08 Arabic language "Eastern Music" station, last heard in January; there was no sign on 1-Mar at 1900z on 6,645 kHz (+ / - several kHz), and also nothing heard on 5-Apr at 1800z - V08 always moved an hour with the start of summertime so as to appear at the same local time."

V13

8300kHz 1400z 09/03 [Star Star Broadcasting] in USB

Regarding this station HFD kindly posted this on group [along with necessary permit to reproduce for non commercial s from BC-DX]: TAIWAN 8300, New Star Being Stn, confirmed as WHO sce of R Taipei, called Heath sce, in a QSL card just received. On the front page it showed two patients getting eye operations (!) and on the full data backside there were also these addr: P.O.Box 24-38 Taipei, Taiwan, Fax 886-2-2886-2294 e-mail: cbs@cbs.org.tw amd http://cbs.org.tw Gian Luigi Naj, Astii, Italy, dswci DXW Feb 26)

StarStar Being Stn (clandest via TWN) 0800-0900, 1400-1416, 1500-1516 8300 TWN. Also on 9725, 11430, 13750, 15388 kHz. ed. [Tncx BC-DX and HFD]

POLYTONES

UNID Polytone 1

On the frequency of 15604kHz 1220z 15/03 AnonUK discovered a different polytone station and sent a .wav file to ENIGMA 2000.

The UNID certainly used tones as XP and XPH although the tonal range was different, in this case 450 to 1177Hz. [XP uses 303 to 511Hz, XPH 814 to 1304Hz]. Because of the frequency range of the tones used this UNID has been designated XPM

That is where the similarity ends. Much like the difference between the way the tones are used in XP/XPH this one appears to be yet another system.

XP uses 14 tones, XPH 13 tones whilst XPM uses 18 which are:

450, 488, 531, 568, 611, 649*, 692, 730, 773*, 811*, 854*, 891, 934, 972, 1015, 1058*, 1096* and 1177*. [*used on long tones].

The tonal separation [from low end] appears to be cyclic until 1058Hz:

38, 43, 37, 43, 38,43, 38, 43, 38, 43, 37, 43, 38, 43, 43, 38, 81. [17 counts]

Long tones have varied in length:

649: 1610ms, 773: 1600ms, 811: 1590ms, 854: 2420ms.

1058: 2370ms,

1177 used 7 times: 3970, 1610, 800, 4790, 1580ms,

1096 used directly with 1177 as a separator: 800ms long thrice, 890ms once, and as a long tone 1570ms twice.

We have allotted values to these tones but could be so very wrong!!!:

649, 773, 811, 854, 1058, 1096 and 1177 as administrative tones

488: 0, 531:1, 568: 2, 611: 3, 692: 4, 730: 5, 891: 6, 934: 7, 972: 8, 1015: 9.

It was thought that this signal was sent much like XP/XPH in groups of 3 sendings separated by 20 mins. Attempts to locate this station on other frequencies was not successful and it did reappear on subsequent dates.

It was noted that it was found on the third Saturday and that this could have a bearing on the schedule. The other obvious effect on this transmission could be that it was the last in a schedule of 3 transmissions [1140, 1200 and 1220z] and like XP/XPH the last transmission does not take place if the transmission on the others are null messages.

AnonUK found repeat sequences and stated that 'the only repeat sequence I can find in that recording was 934 488 934. There are 2 others but they are the wrong way round 724 934 724 and 977 865 977.'

Please notify E2k of further intercepts of this interesting polytone.

UNID Polytone 2

RN GB reported a prospective polytone heard 10995.5kHz 0900z 10/04.

Looking at the spectrogram a range of frequencies between 590 and 1290Hz were seen in a similar configuration to that already seen in XP and XPH. The various tones occurred in 160ms pulses.

The start up seemed to start similarly to XP with the first tone of 1290 being alternated with a 990Hz tone, Five 1290Hz tones and four 990Hz tones being sent. The tones were sent as 'packets'.

Each total sending lasted 2485ms and was separated by 5410ms before the next 'packet'

The eight tones used are: 590, 690, 790, 890, 990, 1090, 1190 and 1290Hz.

Each 'packet' appears to end on a random character.

Supposing that each actually had a numerical value with 990 as 0, then 690:1, 790:2, 890:3, 1090:4, 1190:5. 590: Space, 1290:Repeat; it suggests that this would limit the encryption combinations per 'packet'. Of course if this were a digital address, maybe a selcall, it could open certain receivers to receive another part of the transmission which is a very complicated sending.

This sending has also been noted by PLondon after E2k alerted him to it:

10995.5kHz	0900z	10/04 [Per RN GB]
	1030z	10/04 [Per PLondon]

Using a frequency of 10995.5kHz places the sendings within the allocation of 10.150-11.175 MHz which is used for Fixed, Aeronautical, Maritime Mobile and Land Mobile and is noted for 'Government Use' and National Air Traffic Service. RA's RA365 doc refers.

We have received a valid suggestion that this is either a Piccolo or Coquelet 12 transmission. However, we would be grateful for further observations of this station and to receive the subsequent logs.

XPL uncovered

AF sent ENIGMA 2000 his March log and attached a MP3 file asking if we knew what the melodious organ like tones were. We confirmed to AF that he had just supplied us with only the second recording we had heard of the low frequency XP low tones, or, XPL.

Converting the MP3 to the larger 3.5MB file it was applied to spectrogram to enable us to see the 'working parts' of the signal. It was necessary for us to set the band between 0 and 670Hz to start off with. On seeing the differing tones the resolution was again changed to give a maximum freq of 344Hz.

Because the recording was as long as it was the original wav file was split into seven more manageable 500kB chunks and then started the laborious task of measuring the frequencies. Prior to measurement the MP3 file was observed to enable us to predict what range of frequencies we were liable to encounter, they were between [and including] 150 to 295Hz.

Listening to the audio output it was apparent that the tone frequency was lower than what we had measured, with difficulty, from the previous sample supplied by AnonUK. On looking at the resultant spectrogram it became obvious that what was heard was the product of tone pairs.

Pairs of frequencies measured [\pm 3Hz]:

150/235, 165/255, 180/245, 205/260, 215/290Hz.

Difference in freq:
85 [a] 90 [b] 65 [c] 55 [d] 75Hz[e]

Much like the two-tone tests applied to a SSB transmitter, the product is the resultant of the beat of two frequencies that are not harmonically related. [Much like the generation of tones for 'telephone 'tone dialling']. Of course the tones may not have an analogue numerical value and have a BCD value only.

The sample that we 'analysed' sent its tones in groups of 12, either starting or ending with 215/290Hz and a product of 75Hz which we have called [e]. Using the letter id for the tone pairs the cycle of tones was as follows:

e d c a c b c a d b d e [Start and finish underlined].

The five resultant tones could not be used to transfer much information if it was to use an analogue series of ordinates between 0 and 9. By varying the tone pairs the product would be different and another eight tones, whose frequency remained below 100Hz, realised [Existing tone pair product shown as a letter]:

	235	255	245	260	290
150	a				
165	70	b	80	95	
180			c		
205	30	50	40	d	
215	20		45	e	

The above table is supposition but shows how a variation in freq could be made. The frequencies found by AF on 26th March and 25th March, 2003 for the tuesday sending. The times heard suggest a schedule. 2000z 5460kHz, 2011z 5476kHz and 2027z 9112kHz. A Tuesday sending was 1920z 11432kHz. The mode was AM.

The tones pulse lengths were not accurately measured but appeared to be circa 1120 msec in length. [Txn to AF, AnonUK, RN GB and PLondon for their help in this analysis]. ©ENIGMA2000

We would be grateful to receive all logs of polytone or like polytone transmissions, via the usual routes.

XP

We post the tone freqs [originally from VM] as:

XP Tones

303: Space, 319: End,

335 : 0, 351: 1, 367 : 2, 383 : 3, 399: 4, 415: 5, 431: 6, 447: 7, 463 : 8, 479 : 9

495 : Start, 511: Repeat

February's morning schedule from PLondon and JoA:

0700z 15272kHz 04/02 07/02 11/02 14/02 18/02 21/02 25/02 28/02
0720z 16473kHz 04/02 07/02 11/02 14/02 18/02 21/02 25/02 28/02
0740z 17473kHz NRH NRH NRH 14/02 NRH 21/02 25/02 28/02
ID244

February's first evening schedule Freqs from JoA

2100z 7526kHz 04/02 06/02 11/02 13/02 18/02 20/02 25/02 27/02
2120z 6766kHz 04/02 06/02 11/02 13/02 18/02 20/02 25/02 27/02
2140z 5152kHz 04/02 NRH NRH NRH 18/02 NRH 25/02 27/02
ID571

February second evening schedule sendings from JoA

2110z 9052kHz 04/02 - 11/02 14/02 18/02 20/02 21/02 25/02
2130z 7585kHz 04.02 07/02 11/02 14/02 18/02 20/02 21/02 25/02
2150z 5875kHz 04/02 07/02 11/02 14/02 18/02 NRH 21/02 25/02
ID058

Late XP Freqs via PLondon and JoA.

2220z 10369kHz 04/02 06/02 - 18/02 20/02 25/02 27/02

XP April 03 evening sendings courtesy JoA, AnonUK and PLondon

2000z 12179kHz 01/04 03/04 08/04 10/04 15/04 17/04 22/04 24/04 29/04
2020z 10970kHz 01/04 03/04 08/04 10/04 15/04 17/04 22/04 24/04 29/04
2040z 9475kHz NRH 03/04 NRH NRH NRH NRH NRH NRH NRH NRH
ID914

Both the initial sendings displayed a very poor signal strength into Plondon's QTH. Frequencies used were also used last year.

A better signal was noted on sendings of 04/04 with 00125/00107. 08/04 and 10/04 were null msgs. Strong sigs 15/04.

During the 2000z 24/04 sending [36 seconds] the carrier dropped resulting in the loss of 2.4 seconds if ID. The original signal strength was 20dBs in PLondon's QTH. The 2020z sending fielded a carrier of 10dBs strength. PLondon reports that the audio of the tones was 'ropey' and best described as garbled. The carrier remained up for circa 45 seconds after this short 2 minute transmission. At 2052z the carrier rose again for a few seconds, perhaps testing, given the unscheduled loss during the 2000z sending and the subsequent banal offering for 2020z.

2110z 14890kHz 01/04 04/04 08/04 11/04 15/04 18/04 22/04 25/04 29/04
2130z 13420kHz 01.04 04/04 08/04 11/04 15/04 18/04 22/04 25/04 29/04
2150z 11580kHz NRH NRH NRH NRH 15/04 18/04 22/04 25/04 29/04
ID845

As with the initial 2000z sendings these too were of poor signal strength.; confirmed by PLondon, JoA and AnonUK. Freqs used same as last year. 04/04 poor sigs too. Very poor signals on 15/04, 14890kHz was virtually inaudible & 13420 marginally better. 11580kHz was heard at a strength of S7 - 8 in S London and Aylesbury. 02031/00085. 18/04: 02031/00085. 22/04 00537/00161 and repeated on 25/04 [all sendings in +10dBs at PLondon's S London QTH]. Last sending for April was +10dBs at PLondon's QTH on 29/04 for the 2010z 00461/00193 but the subsequent 2030 and 2050z sendings whilst reaching S9 on his 'S' meter were affected by deep fades.

Late XP: April 03 from PoSW

2120z 15658kHz 03/04
2140z 14358kHz 03/04
2200z 12158kHz 03/04
ID631

PoSW found this late scheduled XP which used the same frequency schedule as April last year. He comments, " All three sendings were very weak signals, only just detectable; they were so weak I am sure I would not have been able to find them if I had not known last April's frequencies and decided to try them. In addition, the 2120z sending is inside the 19 metre band with BC QRM and the 2200z has severe QRM from the BC station WWCR Nashville on 12,160. I haven't bothered with this one since 3-April but it should also run on Tuesdays [Txn PoSW - not audible at PLondon's due to high noise level]. PLondon did try on 29/04 but all frequencies remained noisy, polluted with BC stations and apparently bereft of Polytones.

XPH

XPH tones as originally measured by AnonUK:

1304: Space

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

1271: Msg Separator 992: Rpt

February's evening transmission freqs from AnonUK and JoA:

1830z 9168kHz 04/02 08/02 11/02 14/02 18/02 22/02 25/02
1850z 7695kHz 04/02 08/02 11/02 14/02 18/02 22/02 25/02
1910z 59nnkHz NRH NRH NRH NRH NRH NRH NRH NRH
ID169

March's evening XPH from AnonUK, Plomdon and JoA

1830z 11614kHz 01/03 04/03 08/03 11/03 15/03 18/03 22/03 25/03 29/03
1850z 10132kHz - 04/03 08/03 11/03 15/03 18/03 22/03 25/03 29/03
1910z n1nnkHz NRH NRH NRH NRH NRH NRH NRH NRH
ID611

The entire 3rd sending, at 1910z, was not utilised this month and like last month all XPH sendings remained null messages. 04/03 and 08/03 signals poor - 1830z occluded by BC station, 1850z propagation bad. Some deft filtering brought the 1830z signal into the clear from the dulcet voice of replay singer 'Lata Mangeshkar' on All India Radio on 11620kHz, itself a thrashingly good signal. Use of a filter was found to be beneficial on these freqs. 18/03 sendings were even worse due to solar unrest.

The 22/03 sendings were very well received by PLondon whilst in Hereford [!]. Using just a Sony ICF-SW100E and its telescopic antenna P reported that the 1830z sending was the best he had received and QRM free. The 1850z offering was likewise very good quality.

April's evening XPH from JoA, PoSW and PLondon

1830z 14837kHz 01/04 05/04 08/04 12/04 15/04 19/04 22/04 26/04 29/04
1850z 13373kHz 01/04 05/04 08/04 12/04 15/04 19/04 22/04 26/04 29/04
1910z 11648kHz NRH NRH NRH NRH NRH NRH NRH NRH
ID836

Very poor reception indeed for this one, inaudible with PLondon and AnonUK. The sending on 08/04 was clearer and stronger.

Good signals at 1830z on 15/04 with 1850z signals only marginally better. Strength picked up on the tones received on 19 and 22/04, PLondon

remarking that he had no need to use filters or phased noise cancellers.

XPL

From AF we not only received a sample of the XPL tones, the second only sample to have been heard, but also what appears to be a complete schedule? Excellent work AF.

ENIGMA 2000 would be grateful to receive notifications of all polytone stations.

5460kHz 2000-2008z Wed 26/03
 5476kHz 2011-2018z Wed 26/03
 9112kHz 2027-[2035?]z Wed 26/03
 11432kHz 1920-1943z Tues 25/03

The 5460kHz sending was also monitored by 'E' who commented " Not normal sound, off at 2008z. Just disappeared, not totally sure if an experimental tx."

A discussion had been held by E2k members concerning XPL prior to this latest sending, the general consensus was that the sendings may be experimental.

See 'XPL uncovered' at the start of the Polytone section.

XPM

15604kHz 1220z 15/03

See ' UNID Polytone 1 ' at the start of the Polytone section.

NUMBER PREDICTIONS

Gert, Holland has kindly sent his prediction chart in for May 2003.

Prediction may 2003

Date	Day	Time (utc)	TX	Name	Freq (kHz)
1	thu	06.00	/ 20 / 40	V07	Span lady 000 000 14620 16320 17520
1	thu	08.00	E11	Oblique	10125
1	thu	08.00	E17z	Eng lady 00000	search
1	thu	17.42	S21	Russian lady	4454 4854
1	thu	20.00	G04	Three note oddity	4830
1	thu	20.30	G04	Three note oddity	4930
1	thu	22.00 or 23.00		G22	Edna Sednitzer germ. search, rpt 1.5 hour later. Try each thu.
2	fri	05.10 / 30 / 50		E07	Eng man 000 000 7739 9042 ?1??
2	fri	08.00	E11	Oblique	11116
2	fri	19.30	G06	German lady 00000	5442, not each fri but every 14 days.
3	sat	12.30 / 13.30		E06	Eng man 00000 search, april freqs 18761 / 16183
3	sat	13.20	E06	Eng man 00000	search, march freq 16227
3	sat	14.00 / 15.00		E06	Eng man 00000 search, april freqs 14610 / 12210
3	sat	18.00	V08	Eastern music	6647 +/- few kHz. Active after gulf war?
4	sun	12.30 / 13.30		E06	Eng man 00000 search, april freqs 18761 / 16183
4	sun	17.00 / 20 / 40		E07	Eng man 000 000 search, apr freqs 14866 13571 12194
5	mon	11.55	E23	voice of E05	8188
5	mon	19.00	G06	German lady 00000	search
5	mon	20.00	G06	German lady 00000	search
5	mon	20.00 / 20 / 40		E07	Eng man 000 000 15638 13872 12203
5	mon	21.45 or 22.45		S04	Edna Sednitzer 3373 or 3868. Rpt next day if msg
6	tue	06.00 / 20 / 40		V07	Span lady 000 000 14620 16320 17520
6	tue	12.20	E11	Oblique	7439 or search
6	tue	13.00	E11	Oblique	8088 or search
6	tue	17.42	S21	Russian lady	4454 4854
6	tue	19.00	G06	German lady 00000	search, not today if no msg on mon.
6	tue	19.00	S06	Russian man 00000	search
6	tue	20.00	G06	German lady 00000	search, not today if no msg on mon.
7	wed	05.10 / 30 / 50		E07	Eng man 000 000 7739 9042 ?1??
7	wed	07.00	S06	Russian man 00000	13420
7	wed	11.55	E23	voice of E05	8188
7	wed	15.05	E06	Eng man 00000	11123 or search
7	wed	17.00 / 20 / 40		E07	Eng man 000 000 search, apr freqs 14866 13571 12194
7	wed	20.00 / 20 / 40		E07	Eng man 000 000 15638 13872 12203
7	wed	21.00	S11a	Cherta	4016 or search 3800 - 5500 kHz
7	wed	try 21.00 - 23.00		E18	Five Free search, likes third thu. Rpt next day
8	thu	06.00 / 20 / 40		V07	Span lady 000 000 14620 16320 17520
8	thu	08.00	E11	Oblique	10125
8	thu	08.00	E17z	Eng lady 00000	search

8	thu	11.55	E23	voice of E05	8188
8	thu	17.42	S21	Russian lady	4454 4854
8	thu	22.00 or 23.00		G22	Edna Sednitzer germ. search, rpt 1.5 hour later. Try each thu.
9	fri	05.10 / 30 / 50		E07	Eng man 000 000 7739 9042 ?1??
9	fri	08.00	E11	Oblique	11116
9	fri	19.30	G06	German lady 00000	5442, not each fri but every 14 days.
10	sat	12.30 / 13.30		E06	Eng man 00000 search, april freqs 18761 / 16183
10	sat	13.20	E06	Eng man 00000	search, march freq 16227
10	sat	14.00 / 15.00		E06	Eng man 00000 search, april freqs 14610 / 12210
11	sun	12.30 / 13.30		E06	Eng man 00000 search, april freqs 18761 / 16183
11	sun	17.00 / 20 / 40		E07	Eng man 000 000 search, apr freqs 14866 13571 12194
12	mon	20.00 / 20 / 40		E07	Eng man 000 000 15638 13872 12203
12	mon	21.45 or 22.45		S04	Edna Sednitzer 3373 or 3868. Rpt next day if msg
13	tue	06.00 / 20 / 40		V07	Span lady 000 000 14620 16320 17520
13	tue	12.20	E11	Oblique	7439 or search
13	tue	13.00	E11	Oblique	8088 or search
13	tue	17.42	S21	Russian lady	4454 4854
14	wed	05.10 / 30 / 50		E07	Eng man 000 000 7739 9042 ?1??
14	wed	07.00	S06	Russian man 00000	13420
14	wed	15.05	E06	Eng man 00000	11123 or search
14	wed	17.00 / 20 / 40		E07	Eng man 000 000 search, apr freqs 14866 13571 12194
14	wed	20.00 / 20 / 40		E07	Eng man 000 000 15638 13872 12203
14	wed	try 21.00 - 23.00		E18	Five Free search, likes third thu. Rpt next day
15	thu	06.00 / 20 / 40		V07	Span lady 000 000 14620 16320 17520
15	thu	08.00	E11	Oblique	10125
15	thu	08.00	E17z	Eng lady 00000	search
15	thu	17.42	S21	Russian lady	4454 4854
15	thu	22.00 or 23.00		G22	Edna Sednitzer germ. search, rpt 1.5 hour later. Try each thu.
16	fri	05.10 / 30 / 50		E07	Eng man 000 000 7739 9042 ?1??
16	fri	08.00	E11	Oblique	11116
16	fri	19.30	G06	German lady 00000	5442, not each fri but every 14 days.
17	sat	12.30 / 13.30		E06	Eng man 00000 search, april freqs 18761 / 16183
17	sat	13.20	E06	Eng man 00000	search, march freq 16227
17	sat	14.00 / 15.00		E06	Eng man 00000 search, april freqs 14610 / 12210
18	sun	12.30 / 13.30		E06	Eng man 00000 search, april freqs 18761 / 16183
18	sun	17.00 / 20 / 40		E07	Eng man 000 000 search, apr freqs 14866 13571 12194
19	mon	11.55	E23	voice of E05	8188
19	mon	20.00 / 20 / 40		E07	Eng man 000 000 15638 13872 12203
19	mon	21.45 or 22.45		S04	Edna Sednitzer 3373 or 3868. Rpt next day if msg
20	tue	06.00 / 20 / 40		V07	Span lady 000 000 14620 16320 17520
20	tue	12.20	E11	Oblique	7439 or search
20	tue	13.00	E11	Oblique	8088 or search
20	tue	17.42	S21	Russian lady	4454 4854
20	tue	19.00	S06	Russian man 00000	search
21	wed	05.10 / 30 / 50		E07	Eng man 000 000 7739 9042 ?1??
21	wed	07.00	S06	Russian man 00000	13420
21	wed	11.55	E23	voice of E05	8188
21	wed	15.05	E06	Eng man 00000	11123 or search
21	wed	17.00 / 20 / 40		E07	Eng man 000 000 search, apr freqs 14866 13571 12194
21	wed	20.00 / 20 / 40		E07	Eng man 000 000 15638 13872 12203
21	wed	21.00	S11a	Cherta	4016 or search 3800 - 5500 kHz
21	wed	try 21.00 - 23.00		E18	Five Free search, likes third thu. Rpt next day
22	thu	06.00 / 20 / 40		V07	Span lady 000 000 14620 16320 17520
22	thu	08.00	E11	Oblique	10125
22	thu	08.00	E17z	Eng lady 00000	search
22	thu	11.55	E23	voice of E05	8188
22	thu	17.42	S21	Russian lady	4454 4854
22	thu	22.00 or 23.00		G22	Edna Sednitzer germ. search, rpt 1.5 hour later. Try each thu.
23	fri	05.10 / 30 / 50		E07	Eng man 000 000 7739 9042 ?1??
23	fri	08.00	E11	Oblique	11116
23	fri	19.30	G06	German lady 00000	5442, not each fri but every 14 days.
24	sat	12.30 / 13.30		E06	Eng man 00000 search, april freqs 18761 / 16183
24	sat	13.20	E06	Eng man 00000	search, march freq 16227
24	sat	14.00 / 15.00		E06	Eng man 00000 search, april freqs 14610 / 12210
25	sun	12.30 / 13.30		E06	Eng man 00000 search, april freqs 18761 / 16183
25	sun	17.00 / 20 / 40		E07	Eng man 000 000 search, apr freqs 14866 13571 12194
26	mon	09.55	E23	voice of E05	8188
26	mon	20.00 / 20 / 40		E07	Eng man 000 000 15638 13872 12203
26	mon	21.45 or 22.45		S04	Edna Sednitzer 3373 or 3868. Rpt next day if msg
27	tue	06.00 / 20 / 40		V07	Span lady 000 000 14620 16320 17520

27	tue	12.20	E11	Oblique	7439 or search
27	tue	13.00	E11	Oblique	8088 or search
27	tue	17.42	S21	Russian lady	4454 4854
28	wed	05.10 / 30 / 50	E07	Eng man 000 000	7739 9042 ?1??
28	wed	07.00	S06	Russian man 00000	13420
28	wed	09.55	E23	voice of E05	8188
28	wed	15.05	E06	Eng man 00000	11123 or search
28	wed	17.00 / 20 / 40	E07	Eng man 000 000	search, apr freqs 14866 13571 12194
28	wed	20.00 / 20 / 40	E07	Eng man 000 000	15638 13872 12203
28	wed	try 21.00 - 23.00	E18	Five Free	search, likes third thu. Rpt next day
29	thu	06.00 / 20 / 40	V07	Span lady 000 000	14620 16320 17520
29	thu	08.00	E11	Oblique	10125
29	thu	08.00	E17z	Eng lady 00000	search
29	thu	09.55	E23	voice of E05	8188
29	thu	17.42	S21	Russian lady	4454 4854
29	thu	22.00 or 23.00	G22	Edna Sednitzer germ.	search, rpt 1.5 hour later. Try each thu.
30	fri	05.10 / 30 / 50	E07	Eng man 000 000	7739 9042 ?1??
30	fri	08.00	E11	Oblique	11116
30	fri	19.30	G06	German lady 00000	5442, not each fri but every 14 days.
31	sat	12.30 / 13.30	E06	Eng man 00000	search, april freqs 18761 / 16183
31	sat	13.20	E06	Eng man 00000	search, march freq 16227
31	sat	14.00 / 15.00	E06	Eng man 00000	search, april freqs 14610 / 12210

Note: E18, G22 and S04 will occur only one time per month (plus repeat). Not sure what week.

Daily: S17c, Czech lady control, 12.50 utc, 8190 and 5301 kHz.

©Gert 04/2003

Thanks Gert!

ODDITIES

An UNID oddity was reported by 'E'. He writes, "11363.5kHz 1820z Noise like a faulty car alarm, WED 12/03.

Our monitors might care to look out for this one."

Another weirdo was heard by PLondon as he tuned up for his date with XP. P Stumbled across a swishing sound on 13385kHz. On tuning around he was able to measure the centre of the sending as 13418.5kHz and the edges as 13383 to 13460kHz. That gives a bandwidth of 71kHz! What possible use is there for that signal. PLondon monitored from 1725z to 1812z, the signal strength remaining a firm S6.

Eager to learn what this signal might be the international allocation tables were perused. 13418.5kHz and the signal's upper edge fall in the allocation 13410 - 13570kHz: Government Use; Fixed - Aeromobile, Maritime Mobile and land Mobile. The lower signal edge of 13383kHz falls in the allocation of 13360 - 13410kHz: Government Use, Fixed.

E2k would be grateful to hear of theories concerning the swishing noise, its use and origins.

BACKWARDS MUSIC STATION (XM)

Whilst checking for M10 activity for the Slavic desk PLondon had these XM 'experiences':

3522kHz	2120z	25/04	[still going strong at 2245z]	S7-9
1855z		26/04	[still going strong at 2045z]	S9

BUZZSAW

Just one report of this peculiarity:

8010kHz	2010z	13/03	[Loud Buzzsaw]
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Thanks 'E'.

CARRIERS [Blank]

Whilst trialling an ANC-4 Antenna Noise Canceller & Diversity Combiner PLondon found a very strong carrier:

7880kHz	1650z	02/04
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The signal was measured at a whopping ++40dBs, endstop on his Icom IC-R71E! P wrote that had he not known better he would have thought it to be a ground wave. The carrier was still up at 1700z when P moved onto other things, however it was up at 1800z. A quick check at 2000z revealed a facsimile station on freq and believed to be DDK Hamburg [Tnx for id ML].

CRACKLE(XC)

FROGS! (XFR)

Mike of Kent wrote that he had heard "XFR up on 13975 at 1330z today [02/04] - weak/noisy, just doing a single "decreasing tone" sequence, wonder if these are "circuit tests" or "nulls", since first noticed these are beginning to spread - we now have 7380, 7992, 13975, 18864kHz. Tuning across the bands last night thought I heard the sequence ending tones around 11500kHz, but gone when I tuned back." [Tnx Mike]. AnonUK has also informed us that he is hearing these regularly through March.

JAMMERS

These can be heard with some regularity on: 5320, 5600, 6420, 6880, 7040, 7050, 7070, 8320, 8340, 8515, 9360, 10280, 10470 and 13410, 16176kHz.

MAZEILKA (X06)

The X06 "Mazeilka" 6 Tone Repeating seems to have increased in activity although many transmissions just vanish suddenly with nothing further sent afterwards. Those that send some Morse, usually as a prelude to a transmission of FSK/RTTY continue to suffer from very bad keying, the characters so badly formed it is often difficult to make any sense of them.

7-Mar-03, Friday, 2244z, 6,870 kHz, X06 with a strong signal, slight background buzz. Went off as though someone had pulled the plug out 2250z; listened until 2254z, nothing further heard.

9-Mar-03, Sunday, 1436z, 16,227 kHz, signal strength S7 to S8, went off suddenly 1443z, listened for another 3 minutes, nothing further heard.

18-Mar-03, Tuesday, 1507z, 12,215 kHz, strong signal, vanished just after 1510z, again nothing further heard.

20-Mar-03, Thursday, 0908z, 13,319 kHz, tones stopped about a minute after being tuned in; carrier went QRT after a further 20 seconds. Unlike many X06s heard recently this was the traditional format; sent CW Morse "DN DN VU RR NW" - the standard of sending better than usual - followed by FSK data. Was not on for long, went off 0913z.

21-Mar-03, Friday, 0939z, 14,720 kHz, strong signal, tones stopped 0946z, carrier off 15 seconds later - then Morse, badly keyed this time - something like "DN DN ASM ISM NW" followed by FSK.

22-Mar-03, Saturday, 1335z, 16,227 kHz - there had been an E06 English Man transmission on this very same frequency 15 minutes earlier but I expect that's just a coincidence - or is it?. This was another X06 which suddenly vanished, just before 1338z; listened for a few minutes, nothing further heard

24-Mar-03, Monday, 2110z, 6,848 kHz, tones stopped 2113z, carrier went off approx. 20 seconds later, nothing further heard.

28-Mar-03, Friday, 1946z, 12,224 kHz, good signal, S8 to S9, went on for some time, weaker by 1955z. Tones stopped 2004z, carrier went off shortly afterwards, nothing further heard.

2-Apr-03, Wednesday, 2024z, 7,680 kHz, tones stopped and carrier went off 2034z; listened until after 2037z, nothing further heard.

4-Apr-03, Friday, 1725z, 17,463 kHz, strong signal, tones stopped 1727z, carrier went off 30 seconds later followed by very badly keyed Morse, "UDL" (something unreadable) "NW" followed by FSK data.

5-Apr-03, Saturday, 1806z, 10,815 kHz, strong signal, tones stopped 1817z followed by CW which was so badly sent as to be totally unreadable followed by FSK. A short transmission, gone by 1820z. [Tnx PoSW].

Other logs:

6840kHz	2112z	19/03
6870kHz	2150z	03/03
8055kHz	2011z	07/03
8082kHz	1805z	20/03
8123kHz	0700z	26/03
15625kHz	1318z	29/03
16228kHz	1115z	05/04
	1603z	14/04 [off 1613z]

S28 [formerly XB]

A common signal on 4625kHz but down when 'E' checked it at 2026z 19/03. It had returned by 2200z when he checked again. Heard again as:

4625kHz 2219z 12/04 via selco

S30 [The Pip]

Continues to dominate 3757kHz in the 80M band.

Another pip worth listening too was heard by 'E' and may still be active:

7505kHz 0909z 23/02

SLOT-MACHINE (XSL)

XSL is heard on 4152.5, 4231, 4290.5, 6249.5, 6416.5, 6444.5, 8312.5, 8587.5 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	1500z	1600z	1900z
Mon	0900z	1700z	2215z
Tue	1510z	1530z	1600z
Wed	1400z	1500z	1545z
Thu	1600z		
Fri	1450z	1600z	2140z
Sat	1400z	1600z	1700z

8313.5kHz 1600z 09/03

8588.0kHz 1600z 09/03

SQUEAKY WHEEL (XSW)

Whilst this enchanting station can be heard strutting its stuff on 3828kHz PLondon heard another case for 3in1 treatment on 7050kHz.

3828kHz 1900z 16/04

7050kHz 1650z 02/04 [still operating at 1730z].

TELEPRINTER 4710

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

4710kHz 1030z	11/04 Carrier
6702kHz 1030z	11/04 NRH
9000kHz 1033z	11/04
11122kHz 1031z	11/04
15020kHz 1036z	11/04 NRH

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

Frequency information and trends can be downloaded from:
<http://www.cvni.net/radio/>

Thanks to AB, AF, AK, ANUER, Anon UK, AnonNI, Anon Scandinavia, AR, BMDartford, CD, D of Kent, 'E', GallusGallus, Gert of Holland, HFD, IB, J of Aylesbury, J Derby, JM, JMM, K of Kent, LP, Manolis of Crete, Ben Mesander, Mike of Kent, Mark Slaten, Miles, PLondon, Peter of Saffron Walden, R anon, Rob of Essex, RN GB, selco, US', Spy Numbers Robot, 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

In this issue we are please to feature an offering from Simon Mason:

'Conspiracy Cantata' from Simon Mason

A Greek Cypriot composer living in Amsterdam has produced a "Conspiracy Cantata", a sort of opera come art piece, using recordings of numbers transmissions. Here Yannis Kyriakides describes the inspiration for the composition.

I became interested in these transmissions since hearing the Conet Project CD's - I subscribed to Enigma and read up all I could find on the subject - your site being a very informative source. As a composer- I suppose I was fascinated by structure of these messages -by their sound - the hypnotic quality of the transmissions - how the messages appear and fade into noise - communication at its most basic and yet most mystifying. I thought of the parallel between that and the Delphic Oracle whose cryptic messages and double meanings not only acted as some kind of divine pronouncement but was used to serve the interest of the various city states who where in control of the sanctuary - to manipulate the flow of political power.

So I was inspired to compose this piece for 2 voices ,piano and electronics 'a conspiracy cantata' - in which I combine these two worlds. *[The piece is coming out on CD in January - I will send you a copy if you are interested. You have a credit on it]!*

Having visited your site again - just now - I was fascinated to read about the 'Cyprus TV exposes Lincolnshire Poacher' - It confirmed what I suspected to be the case - that the British use their bases in Cyprus to transmit to the middle east - and that Cyprus is a playground of spies and political interests. I would be very curious to know more about this - who was the reporter and when was this programme transmitted. My brother has just returned to Cyprus (coincidentally working in television) - he could get a copy of the programme for me.

Spi is an electronic cantata which juxtaposes two forms of cryptic message communication :the clandestine world of spy number transmissions on the shortwave radio, and the enigmatic uttering of the ancient oracle of Delphi. Both mediums were/are used as forms of political machination.

So-called 'number stations' sprung up on the shortwave radio in the early sixties at the height of the cold war. They are used to transmit coded text messages in numbers, phonetic letters, morse or noise. They are operated by the world's intelligence agencies (such as CIA - MI6 - BND - Mossad - UDBA - KGB -) to relay messages to their agents in the field in an anonymous and undetectable form.

The messages which are transmitted at regular times on certain frequencies on shortwave radio are encrypted with the 'one-time pad' system making them almost impossible to decipher for anyone except the agent in the field who has the particular random set of numbers which are used only once per message.

Although anyone in the world can receive these messages, it is impossible to deduce the destination of the messages nor anything about the content. Many different languages and forms are used for depending on the agency that has sent them.

They vary from simply Morse to synthesized voices reading phonetic alphabet strings. These transmissions usually begin with an introduction such as a single letter of the alphabet in Morse or a fragment of music played for several minutes (the identity of the sender). The first numbers called are usually a three-digit number (the recipient's identity) and there is then a call to attention (bells, gongs, tones or spoken "attention", "ready"). A 'group count' giving the number of message elements that are to be sent is then transmitted, followed by the 'groups' which are sets of numbers or phonetically spoken letters . At the end of the groups, there is sometimes a repeat, if not there is an ending indicator, either by a spoken 'end' or a repeat of the introduction music. Though number stations continue to proliferate (in spite of the end of the cold war) no government agency officially admits their existence.

Spi is scored for two alto voices piano and electronics. The electronic sounds are made up of layers of radio transmissions, noise textures, pre-recorded voices and sampled piano sounds.

The piece mixes together an archaic modal sound world with an eerie 'cold war' atmosphere.

The piece can be divided into six parts:

1 This slowly changing static electronic texture acts as an introduction to the material of the piece. It is made up of what is thought to be CIA transmission.

2 A modal melodic line heard on the piano/sampled piano is juxtaposed with sung fragments (voice 1) of what is thought to be an old StB station (Czech Statni Bezpecnost) nicknamed 'the Czech lady'. Voice 2 speaks part of a list of one-hundred basic words.

3 The introduction and numbers used by voice 1 is based on the five number groups broadcast by MI6 nicknamed 'the Lincolnshire poacher'. Characteristically each group is repeated twice. Voice 2 together with the piano, slowly unravels the ancient Greek oracle quote: 'The Cast is made ,the net is spread, and the tuna will leap on a moonlit night.'
Electronic textures made up of pre-recorded voices (voice 1) and different fragments of number stations and static noise.

4 A spoken text inspired by the three-letter phonetic alphabet stations typically used by MOSSAD (the Israeli secret service) is heard together with the hundred basic words. Towards the end , the voices sing a reprise of the Czech language station over a development of the modal piano line heard in part 2.

5 Morse code features in this part. The inspiration behind it being the Cuban cut number messages (DGI) where Morse letter code is used as a substitution for numbers. The electronic part is comprised of Morse code (counts 0-10) and changing harmonic fields. Voice 2 and the piano re-iterate the text of the Delphic oracle in a further development of part 3.

6 The final part opens with voice 1 providing a stuttered repetition of the oracle quote, with voice 2 speaking a five-figure Spanish number station (DGI). The modal piano line reoccurs in a further development with various electronic textures. Towards the end the voices revert to the hundred basic word lists while the piano provides a pulse of violently struck notes on the inside of the piano. The end radio quote comes again courtesy of the CIA.

Next, a German cryptography student noted some unusual aspects in the traffic of the BND stations: Let me explain why I'm interested especially in G14/G15/G16/E16.

I as a mathematician intensively analyzed many loggings with many statistical methods.

Many traffic indeed matches randomness, but for some recipients traffic NEVER matches randomness criteria.

This is the reason that I got more and more interested in this station and logged all I could receive with my radio. But I have not enough material to get more results on my analysis.

Therefore the question to you on full loggings from (callsign/recipient): PZ/143 and EG/267 . I've found more recipients, but these are the two most interesting.

Short explained :

143 : weight of number '8' : average of all messages : 25.4 % and for

267 : weight of number '8' : average of all messages : 24.6 % .

Others are EG/795 with a weight >10% of '9' (16-18%) and KR/171 with >10% of '1' (15-17%)

Ok I think this explains my interest especially in this station.

(Currently I'm also logging E10/E5 if I catch some transmissions.)

The interest on this numbers comes also from the fact, that I'm working as an ongoing cryptographer on an institute. This means, all what looks like encrypted data, got my very interest.

©Simon Mason2003

[Tx Simon]

NEWS & ITEMS of INTEREST

ENIGMA 2000 acknowledges receipt of two cuttings from 'male anon' detailing intelligence activities by Germany and France on behalf of Iraq, prior to its liberation.

Advice on Home Defence from the Home Office [for work and the home].

Here it is folks, the definitive offering from the Government of Great Britain and Northern Ireland:

<http://www.homeoffice.gov.uk/terrorism/>

If you don't have access to the Internet you needn't worry -- it's not exactly helpful.

Whoops!

On page 29 of NL15 we listed certain locations that we had accessed under (USAFE) US Air Forces in Europe that we had reached via the www.disa.mil/ site but which was actually listed under <http://www.e-publishing.af.mil/noproducts.asp>. On trying to reach this page again we were rewarded with:

'You are not authorized to view this page You do not have permission to view this directory or page from the Internet address of your Web browser.

If you believe you should be able to view this directory or page, please contact the Web site administrator by using the e-mail address or phone number listed on the www.mil.usafe.af.mil home page.
HTTP 403.6 - Forbidden: IP address rejected
Internet Information Services

Technical Information (for support personnel)

- Background:
- This error is caused when the server has a list of IP addresses that are not allowed to access the site, and the IP address you are using is in this list.

More information: Microsoft Support

The last piece of Technical information is of interest.

We therefore advise any ENIGMA2000 members considering visiting this site not to bother to attempt it.

E2k anonymously received this interesting info:

RAF Standbridge has now closed, Chicksands has been sold off , and the huge elephant cage receiver gone.

It's counterpart at Edzell, Scotland also gone! Believe Uxbridge is just microwave link, and telephone exchange, rumoured to be closing.

Menwith Hill probably the most well known now, Bardford St John very active HF tx site and Croughton HF rx plus sat-com.

Other major USAF Sat-com base is Feltwell in Suffolk.

Mormond Hill, Aberdeenshire was a Troposcot link run by USAF, linking Boulmer in Northumbria and Iceland. They also ran a Wide band UHF net which is still in used periodically, the other sites in this net included St.Mawgan, Cornwall and Mildenhall, Suffolk. It is a very old system using hundreds of watts power on UHF Air band (multiplex modes).

BBC's Panorama 16/03

On 16/03 BBC broadcast its current affairs programme 'Panorama'. It was titled 'Frontline Britain' and outlined the threat that Britain faces from Islamic Terrorists.

From pressing upon us that extremists linked to al-Qaeda have established terror cells in the UK and an attack on the country is considered inevitable in the form of a chemical, biological, or 'dirty bomb' attack it also stated that war with Iraq will stands to increase the threat.

The programme followed the twilight zone work of MI5, MI6 and Special Branch, examining what an intelligence source described as the 'biggest change in posture since the end of the Cold War'.

The government's plans for a 'catastrophic' terrorist attack was examined and a retired emergency-planning officer told Panorama that we are simply 'sleepwalking our way towards a disaster'. Panorama unfortunately showed the governments expected responses to be sadly lacking; hospitals with leaky barrier suits, Emergency Planning Officers being told different stories from various gov depts and Fire Crews [Britain's Civil Defence] not having sufficient kit for such an event. Their area covered Fylingdales and Menwith Hill.

One Spy too many?

The German right-wing extremist group 'Blood and Honour' was taken to infiltrating peace rallies and shouting slogans against 'the Jewish-led war against Islam'. They are now reported to be looking to enter regional parliaments. As a result the German government decided to ban the group and allowed undercover agents from Germany's equivalent of the British Special Branch to infiltrate the group.

This infiltration was so successful that joining agents eventually achieved promotion and were known for their xenophobic rhetoric. Unknown as agents to their agents who had infiltrated the group they were effectively reported on. Once in court the evidence presented, containing the racist and anti-constitutional utterances of one spy and reported by another, effectively closed the case. These remarks, it was said, 'were deliberately provoked and were derived from the party's ideology'. As a result the Constitutional Court in Karlsruhe gave the Party the benefit of the doubt.

BFBS

The British Forces Broadcasting Service has been lauded in The Times [07/03] for having two DJ's in a makeshift studio formed inside a metal cargo container.

The American forces are reportedly preferring to listen to the output of BFBS rather than their own American Forces Network. They prefer, it is reported, our music and respect the fact that the DJ's are actually on the plot, respirators at the ready and prepared to rough it out alongside their audience.

Their American Forces Network are safely ensconced in an air conditioned complex thousands of miles away.

The two DJ's are civilians and responsible for their output, unlike their American counterparts who are regularly censored by the generals. The two entertainers are well experience at being in inhospitable zones having been to Bosnia and Kosovo as well as Kuwait before. Their container is both a studio and sleeping accommodation and has been decked out with furnishings and fittings from a local department store.

A Wireless Angle

As mentioned in a past newsletter two contestants are on trial after being accused of attempting to cheat 'Who Wants to be a Millionaire' out of a million quid. Apart from the coughing fits suffered by an accomplice to signify the right answer the defendant are accused of considering pagers as a signalling device. There were to be four pagers, each set to vibrate and located at a different location of the contestants body. There is no evidence that the devices were used for that purpose.

UN Bugging suggested by Frank Koza Defense Chief of Staff [Regional Targets] of the NSA.

The text of a memo detailed the US plan to bug key Security Council members. It can be read, in its entirety here:

<http://www.observer.co.uk/iraq/story/0,12239,905954,00.html>

After its release on 2nd March by the British Newspaper 'The Observer' it was followed by an article 'Bugging Row prompts UN investigation'. Unfortunately the third paragraph reads 'The news comes as British Police confirmed the arrest of a 28 year old woman working at the top secret Government Communications Headquarters [GCHQ] on suspicion of contravening the Official Secrets Act.

The memo asked members at GCHQ to help to analyse US intercepts of 'certain UN delegations to the Security Council' made in their homes and offices. Council members were singled out; Angola, Bulgaria, Cameroon, Chile, and Guinea, for attention and extra focus on Pakistan UN matters. But the memo also suggested that the US and GBR were not to be included in this operation - at least that's what the British copy said; did the US copy differ with the exclusion of GBR?

There was also mention of 'Dictionary', which screens intercepted data that has groups of words of significance that can be used for whatever it is the analysts seek. The investigative journalist had previously outlined the work of 'Dictionary' in a television programme aired some years back.

EU phones bugged.

An interesting newspiece from 'E' indicated that six delegates from six countries, including Britain, had their phones tapped for at least eight years at the headquarters building of the EU. The devices were placed on lines between the central switchboard and the affected telephones at the Justus Lipsius building close to the European Commission in Brussels.

The installations were described as being very sophisticated which only a few intelligence services are able to install. The affected telephones were those of Austria, Britain, France, Germany, Italy and Spain. Immediately the French media blamed the CIA for this incursion but fingers have since pointed at Paris and London as being cunning enough to bug their own lines to disguise their part. The Chinese, Israelis and Russians have since been suggested as possible perpetrators.

Russia's internal security increased.

The FSB has been given powers lost in the 1991 coup back. Whilst these powers include surveillance and border control some Russians are concerned about a return to totalitarianism.

Mukhabarat active in GB

As if things aren't bad enough with the Iraqi matter of the controversial US war and GB's part in it an interesting piece appeared in The Observer Newspaper 16/03.

Entitled 'Iraqi spy network set up in Britain' it had a sub-title 'Fear of terror attacks fuelled as defectors tell their stories'. These stories apparently outline an established active network of Iraqi *mukhabarat* agents in Britain, some, it is claimed, who entered as refugees.

It also stated that the Mukhabarat was responsible for the assassination of General Abdul Razzaq al-Hayef, a former Iraqi Prime Minister, outside a London Hotel in 1978. The Iranian embassy siege in 1980 is also believed to have been run by the Mukhabarat officer named as Fawzi al-Naimi, whilst the weapons for the operation were said to be smuggled from Kuwait to GB by the Abu Nidal terrorist group.

Of interest to the reader the UK espionage operations are run from the Mukhabarat's UK Desk, located in the al-Mansour district of Baghdad.

North Korean Spy flights resumed.

After the cessation of 'spy' flights over North Korean airspace, due to the interception of a KC-135 aircraft the US was reported to have resumed these flights. [Times 13/03].

Even at the library, 'Big Brother' may be watching.

Several libraries in California have begun to warn book lovers that the U.S. government may be monitoring their reading habits in a sweeping effort to crack down on terrorism, a practice that is occurring nationwide. "It's only been recently that people have become aware just how pernicious it is," said Anne Turner, director of libraries in Santa Cruz. "Our board decided to take a public stand and posted warnings at its branches as of Friday." [Tx Jmm]

RAF Fairford

Two men have been arrested for aggravated trespass at the USAF base 'RAF Fairford' as they hung pictures of civilian casualties of the last bombing campaign in Iraq. Two women were previously arrested as a group of around 50 elderly women [many aged between 70 and 80] calling themselves 'Grannies for Peace' protested outside the base.

It is a good job they didn't trample on a US flag in sight of American personnel. It has previously been stated in a British Court [by the aggrieved parties under oath] that such an act caused fear amongst American Soldiers. A 60 year old protester had previously made her point by dragging the stars and stripes on the ground in front of their car some time last year and getting herself arrested.

Britain, in the words of respected investigative journalist Duncan Campbell is America's 'Unsinkable Aircraft Carrier'.

Mention of Technical Weaponry.

With the over reporting and opinions of the next Iraqi war a waft of journalistic freshness was briefly felt as the more sensible papers wrote about the different types of ordnance now available.

The Daily Mail 17/03 showed an array of weaponry [probably all US] some of which was interesting. The Blackout Bomb seen in use in Bosnia has no warhead as such and discharges carbon fibre capable of short circuiting power distribution cable. Another interesting piece is the E Bomb. This carries a high powered microwave device that will create a two billion watt electromagnetic pulse designed to effect electronic equipment within its 'footprint'. It is claimed that these microwaves can penetrate bunkers and scramble computers.

[I remember seeing devices fitted in bunkers to stop such an effect]. The Mail suggested major targets in Baghdad. Hope President Hussein doesn't read the Mail!!

A Right Royal Bugging

Queen Beatrix of the Netherlands has been reported in the British press as being likely to be summoned to court to give evidence in a case brought by Princess Margarita, her niece.

From the report it appears that Princess Margarita has accused her aunt of abusing her powers by having the Dutch Secret Services bug her Amsterdam flat bugged, mail intercepted and telephone calls recorded.

Elizabeth 1's Love code broken

A secret love code used by Queen Elizabeth 1 has been cracked for the first time in 100 years. Two persons, a crossword compiler and an intelligence officer, who works in the cryptography division of British intelligence, tackled the letter.

The two came forward after reading an article in *The Times* in November 2002 concerning the Elizabeth exhibition at the National Maritime museum.

The museum pitched the two against each other to see who could break it first.

The code consists of substituting Greek, Roman or nonsense letters although some symbols represented more than one letter, and words were run into others.

The crossword compiler was the first to break the code. The reason given was the compiler's classic education, the symbols were written in a 'bastardised' Greek. The intelligence officer used his experience of breaking international codes.

Iraqi Signals Intelligence capability

At 0845 on 31st March 'PLondon' managed to have a question answered on LBC by former RAF Air Marshall Sir Timothy Garden, now employed in the Centre for Defence Studies at Kings College London.

P's question was, "How effective is Iraqi signals intelligence against British and American Forces communications?"

Sir Timothy answered, "I think we have to assume that they are pretty effective; they have had lots of time. Their military have put a lot of investment into it. We certainly discovered during the Kosovo operation that the Serbs were listening in and had advanced signal equipment.

Looking at the general deployment of communications systems, and the like, in Iraq I'd be very surprised if they hadn't got a good capability." [Tnx PLondon].

British Embassy in Baghdad to re-open soon

The British Embassy in Baghdad to re-open soon, after being back in British hands for the first time in 12 years. Its grounds, and some of the fabric of the building, had been tended by groundsman Abu Saleh. He also removed the Royal coat of arms for safe keeping. Whilst the building, like many others had been looted [there's a good Hindi word] several portraits of HM Queen still hang on the walls. It is expected that the Embassy will reopen on Saturday 3rd May.

In ENIGMA 2000 Newsletter Issue 12, page 34 'British Diplomats "rapid response" embassies' were described. It has been suggested that the first of these mobile embassies will be deployed from Kuwait to allow the diplomats some comfort as well as a reasonable working environment.

Double bubble!

The FBI paid Katrina Leung a healthy £1.1M to spy on China for them between 1983 and 2002. In good Hollywood style Ms Leung was also working for Beijing.

She also used a honey trap by seducing her handler, FBI contact man James Smith 59. When Smith visited her Californian home in 1991 Leung started copying classified defence papers carried in his briefcase.

Smith realised what was happening but continued to carry papers to her home until his retirement in 2000. Both parties are married. Ms Leung was arrested along with Smith. Smith has been charged with 'Allowing access to classified information through gross negligence.

[Tnx 'E']

Czech Informers List

A list containing over 160,000 names of informants used by the secret police [StB] in the former Czechoslovakia has been made available on the internet by the Interior Ministry of the Czech Republic.

In the days of the communist governed Czechoslovakia the StB used networks of spies and informants to build cases against apparent dissidents. The lists are known as the Cibulka lists but have never been confirmed or denied by the government.

In the past the StB carried out more than 230 executions and jailed circa 280,000 persons on political charges. 7000 persons were said to have been detained in mental institutions also.

BAe spy gaoled

Ian Parr who tried to sell defence secrets to the Russians for £130k was gaoled for 10 years at his appearance at the Old Bailey on 04/04. Mr Parr had attempted to sell material from BAe Systems Avionics on seven very secret projects. These projects included the HALO system [used for locating hostile artillery] and the Strom Shadow stealth cruise missile [recently fired in anger at an Iraqi target].

Millionaire game Contestants receive suspended Sentences.

For their apparent attempts to deceive Celador's 'Who Wants to be a Millionaire?' out of the top prize Major and Mrs Ingram and Lecturer Tecwen Whittock received fines and suspended sentences for their plot. The original plan was to use four pagers, each strapped to a different part of the body, to announce the correct answer. To questions heard through an open mobile phone they changed to a different plan, involving coughs to indicate the correct answer.

It has now been announced that ITV and Celador will now screen for mobile phone transmissions and ban mobile phones and pagers in the studio.

Iraqi Embassy, London SW7 Stormed

As Baghdad fell to coalition troops [note British were excluded] and the looting of Government offices took place the Iraqi Embassy at 21 Queensgate, London SW7 was invaded on 09/04 by jubilant Iraqi nationals. The police were called to deal with the matter and 24 persons were arrested for criminal damage. The Iraqi Embassy had long been administered by the Jordanian Interests section since the 1991 Gulf War. The admin staff had ceased to attend about a month in advance to the move to 'liberate' the Iraqi nation.

It was later announced that the 24 suspects had been released without charge [and no doubt the thanks of the Govt for letting them get inside there on a bona fide reason]. Two pictures that had been placed in the window on 09/04 and was visible all day 10/04 had disappeared 11/04. Police have kept a guard on the building to the extent that those having need to enter the building were recorded by an officer, in writing, in the correct book. A DPG officer was seen to guard the main entrance until the afternoon of 25/04.

Above the embassy is a log periodic antenna that rusts away. During the Gulf War it was constantly emitting RF, no doubt monitored by GCHQ. [See 'UK Eyes Alpha: The Inside Story of British Intelligence' by Mark Urban for interesting revelations].

Following the activity in Baghdad a single news report was heard via BBC World Service saying that hard drives from Iraqi Government department computers were being destroyed by persons unknown. That report was not repeated.

The 'Kalamata 12' still wait for their bail money from Geek Authorities

The 12 plane spotters who were acquitted of espionage [at an airfield] in Greece last November are still waiting for their bail money of £9200 per person to be returned by the Greek authorities.

Some of those charged have taken out loans to to pay the bail and suffer interest charges as a result.

Baroness Sara Ludford MEP [LibDem Euro MP, London] has recently hosted a lunch at the House of Lords for three of the twelve acquitted plane spotters and has written to the Greek Embassy in support of the claim for the return of the bail money.

From details available it appears that the Greek judges are none too sharp in their actions to close the case in Greece.

Read more:

<http://www.dailytelegraph.co.uk/news/main.jhtml?xml=/news/2003/04/13/wspot13.xml&sSheet=/news/2003/04/13/ixworld.html>

Finally.....

Shrublands Council Estate, Samuel Morse, Mr SG Brown and 'Best Bent Bed Wire' .

Having dealt with a minor shack fire [lots of grey, acrid smoke from the shorted power cable to the FL2] whilst monitoring the 26/04 0410z sending of M10 on 6763kHz for ENIGMA 2000's Slavic Desk PLondon re-installed his filter. It was an unfortunate failure as the dedicated cassette recorder takes its audio from the FL2 and the intro from M10 was not recorded.

However, PLondon, managed a rare feat and actually decoded it by ear [those of you well acquainted with PLondon will know why it is a rare event] writing down the header as '555 200 18 946 31' then '99 18'. The transmission finished at 0425z.

After performing the necessary safety checks and reconnecting everything PLondon wanted to check his FL2 filter. Needing single sideband recovered audio he naturally went to 40 metres, where he found a PY1 at S9; that was not noisy enough. Moving to 80metres supplied the expected signal on 3780kHz from a small net, F5Vnn, G3Gnn and PA0Ynn.

At 0515z P was delighted to hear the G3 describe how he used a buzzer to transmit Morse characters, in his formative years, to a friend nearby with the help of his father's longwire antenna. Amusingly he recalled being admonished, most severely, by his father, for his experiment was carried out just a few days before D-Day. He mentioned that all amateur wireless activity was forbidden from the declaration of hostilities in 1939.

That reminded P of his activity of stirring the aether! Not using a 'rasping signal from a buzzer' P used one headphone, taken from a pair of SG Browns, to supply the pulse. The DC was from a 67.5volt battery and keyed via a surplus WT Key No 8 bought at 'Huggets' [what a decent bloke Tom Hugget was] for 9d.

The antenna was a lot of wire, removed from an old tubular hoover motor and wound round a 4" long bamboo pole.

This construction was taken out in an old gasmask case, set up in the middle of a green in Shrublands estate where PLondon lived. By previous arrangement two friends, now both licensed amateurs, listened out for the rhythmic pulses, dah di di dit dit di di dit dahetc. Poorly sent and read from a bit of paper this was received in two locations, one approximately 100yds away, the other around 200yds distant. PLondon often thinks of that early experiment in 'wireless' and what it has led to.

Whilst the G3 described what he had done PLondon sadly realised that he was not the first to have used this method to stir the aether as another member of that net stated in his over, 'I used a carbon arc' [hell's teeth!] for the same effect. [Not as good as a T1154 though – right across the spectrum; harmonics stronger than fundamentals!]

The subject of the QSO was Morse keys, straight and side swipe jobs. Suddenly one of the three says 'send Best Bent Bed Wire – it's like a song, very rhythmic.'

There are at least four people reading this who will know the origins of 'Best Bent Bed Wire'.

Readers will be horrified to learn that pleased with our early results, and spurred on by a common interest, the three friends saved up their pocket money [earned doing paper rounds at 7/6d [35.5p] a week] and bought 38 sets. We purchased a 19 set too and it was fitted up with a 38 AFV using all the correct cables and junction boxes; all purchased in Lisle Street.

As young lads we used to stand in the doorway next to GW Smith's [either no 3 or 34 Lisle Street W1] and look at the cards over the bell pushes – 'Young Photographic Model'. In our innocence we marvelled that the Photography trade should be so closely intertwined with our interest of Wireless!

For the benefit of the RA inspectors, who may consider retrospective action, we were all just under 12 at the time and beyond reach of the Criminal system! [Wish I'd known that then!] PLondon would like to state that he does not usually spend his time on any of the amateur bands listening to yet another 'contest'.

Incidentally, the FL2 and all the rest of PLondon's wireless paraphernalia continues to work well, Sundays M10 was 444 200 18 946 31 99 18 == 94294.

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RELEVANT WEB SITES

Frequency details can be downloaded from:

<http://www.cvni.net/radio/>

<http://www.eyespyimg.com>

<http://www.observer.co.uk/iraq/story/0,12239,905954,00.html>

<http://www.observer.co.uk/iraq/story/0,12239,910756,00.html>

<http://www.centcom.mil/galleries/leaflets/showleaflets.asp>

<http://enterprise.spawar.navy.mil/spawarpublicsite/>

<http://news.bbc.co.uk/1/hi/england/leicestershire/2918127.stm>

<http://www.dailyle Telegraph.co.uk/news/main.jhtml?xml=/news/2003/04/13/wspot13.xml&sSheet=/news/2003/04/13/ixworld.html>

REQUESTS

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

Please make your requests or replies via enigma2000-owner@yahoogroups.com or 076 2627 6417 pager.

STOP PRESS

Would the wag who sent DoK official looking call up papers in mid-March and again at the beginning of April please make themselves known?

RAF Habbaniyah was a showpiece base in Iraq with two airstrips. It was handed over complete to the emergent Iraqi government but since the 1991 Gulf War where it was bombed has not been mentioned this time around. Why not?

'E'	Thanks both yr logs etc. 73P
E2k	hopes that the 'Marconi 1' returns home safely. [You know who you are] Tnx for postcard.
'LP'	Thanks yr log.
'N' Branch	Thanks yr parcel
Tom:	Thanks!
SA:	Please send your field report asap == Tnx.

PLEASE SEND ALL CONTRIBUTIONS TO ARRIVE 7 DAYS BEFORE THE LAST DAY OF THE MONTH

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

Please indicate if you wish to be contacted direct.

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

ENIGMA 2000 CAN BE PAGED VIA: 076 2627 6417

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