

# ENIGMA 2000 NEWSLETTER



<http://www.enigma2000.org.uk>



## **Anti – Terror installation seen in Bow, London**

**For the Olympic Games**

**Tnx contributing Anon Member**

**ISSUE 71**

**July 2012**

<http://www.enigma2000.org.uk>

## Editorial, Issue 71

Excellent two months monitoring from our members and others; many thanks for your logs. Thanks to Spectre for his activity charts which appear on the E07/E07a listings as well as in the editorial for XPA/XPA2

Noticeable events through the Morse schedules:

M01 – Did a Welsh amateur operator stop an M01 transmission from being sent on & June?

M01b – Hans-Friedrich logs a mix-up that results in both Russian speech and CW being sent.

M08a – PLdn notes strange anomalies on this station's transmission carrier.

M23- Found again by RNGB: 5440/7437kHz 0701and 1500z [Hrd Tue] try daily, no msg yet just 555(R). Duration is 15m

M24 – Experiences technical problems on 17 May, and fails to complete sending a message.

M89 – Lots of Op. chat msgs logged by JPL in May – Was an exercise in progress?  
Also a new call logged – 8UPT DE SAY7

M97 – After sending msg no. SD71 for just over two months, a new msg is logged on 11 June.

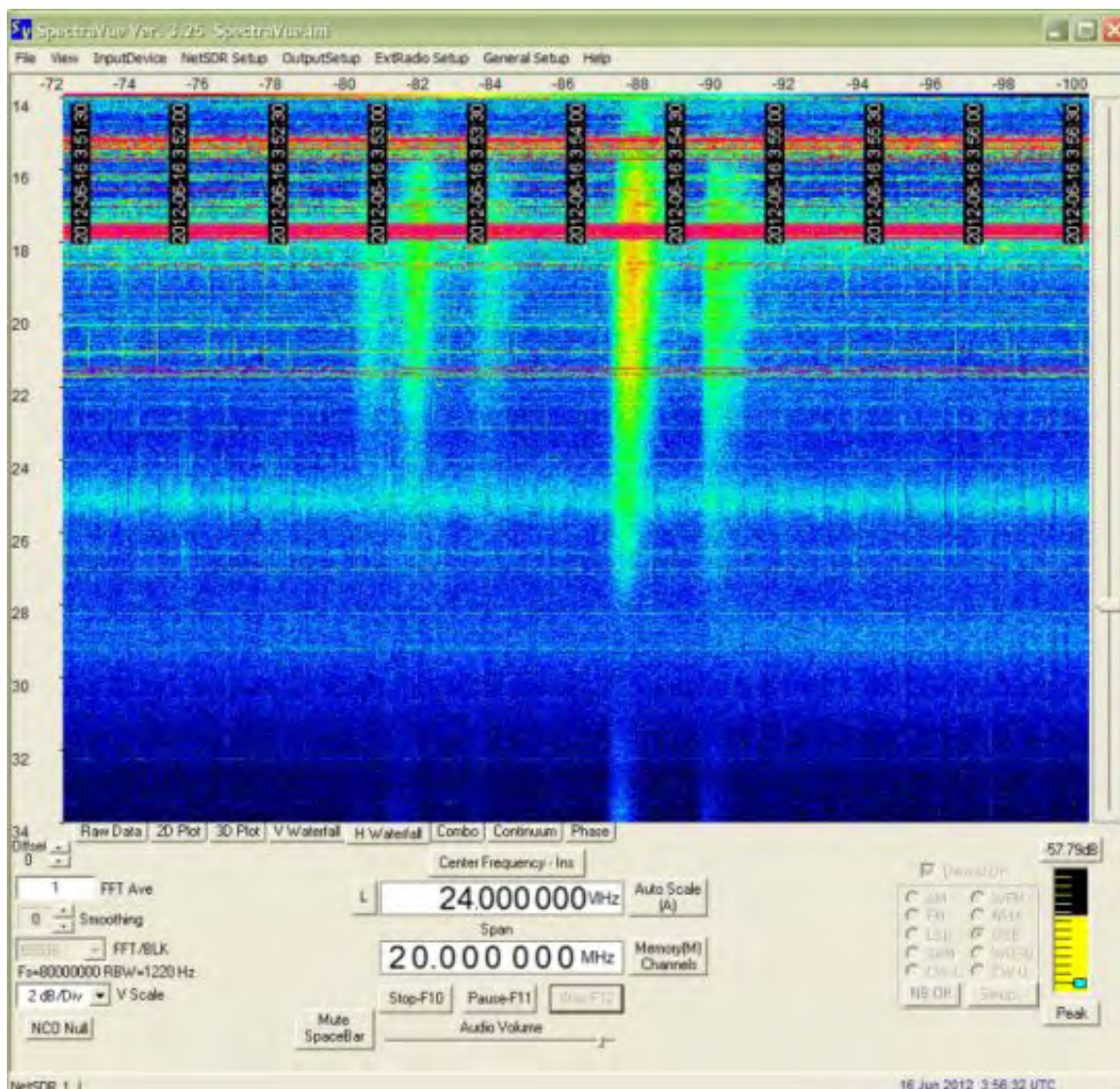
And now the Voice stations:

E06

Sadly the frequency choice for the first and third Thursday 2030z schedule is not, perhaps the best, even for a training net, the BCQRM and heterodyne making the message all but impossible to copy in May.

Variable strengths again noted on the early morning weekend schedules at 0030/0130z. On 26<sup>th</sup> May West1us noted he copied the 0030z message, albeit weakly in Florida. Well done!

The weekend of 16/17<sup>th</sup> June saw the 0030/0130z schedule as NRH with a frequency search made on both days, Saturday by Spectre, Sunday by PLdn, both with no trace. There was a massive solar storm on the morning of 16<sup>th</sup> but that may not be the cause. Further observations will be needed to see if this regular and strong E06 has indeed gone. If it has, whose recently been nicked? Not a certain 60 year old Dutch Diplomat perchance.....



One of two solar burts in the early morning 0356z [above] and 0400z captured by Whit D Reeve, and who has allowed us to use this image – Thanks Whit.

E07

May seemed very prominent in E07 transmissions with large group counts, the largest was 136, mostly good strength transmissions. June is continuing with transmissions of messages but with more null msgs to be heard.

E07a

May and June continued as expected with mainly good strength transmissions for the Wednesday/ Thurs/Sat schedules with a poor signals for Saturday 16<sup>th</sup> June for the 0800/0820/084z sendings.

E17z

Two logs offered over the life of the May schedule although we suspect others are copying it. This is your Group, please support it by bothering to send your log in – even if it is a repeat.

E25/E25a

Lots of logs being submitted from Israel where the 50M band sigs seem to be heard and also from Fanis. Some E25a logs offered too. Douglas suggests that Almost all E25a msg ID's are in sets of 20, whilst almost all E25 msg IDs are in sets of 15. Note the glut of 6MHz logs, this only means that Douglas is only able to copy these stations, 9MHz being out of his time slot.

V02a

No real UK coverage of the 0700/0800z transmissions that are now either buried in noise or had fallen totally to the vagaries of propagation.. The 0500z M08a transmission is now showing some effects of propagational changes also. Over to our American monitors to send the logs.

V13

Opening music identified!

The music used at the beginning of the transmission is called 'Chun Jiang Hua Yue Ye', roughly translated as 'Blossom Spring River In The Moonlight'. The music is a typical popular Chinese Classical piece, it is commonly well known in China.

Logs sent from the Argentine show the activity as well as a trait observed by Daniel [thanks for your work here]. Thanks to Spectre and Ary for their logs too.

V16?

A big query mark here because you never quite know if we're being had. Jochen took time to confirm a claimed V16 with the Conet Project [recordings now some years old and taken from recordings of unknown age]. With all this in mind and having read T's post Ary stated he hadn't heard before let alone being aware of a full description.

T wrote:

This morning (May 28, 2012) I heard a Chinese language station that I have not heard before. Around 1408 UTC a carrier came up on 11493 kHz. The frequency was a little odd for a BC station so I parked an RX on it to see what came about. This carrier went on and off several times before stabilizing at about 1412 UTC. Starting about 1414 UTC I heard broken audio on the carrier. The audio sounded like a YL in Chinese language, but the audio was very bad, my assumption was a BC station with problems.

About 1415 the audio cleaned up, and it became clear it was a YL repeating the same phrases over and over in Chinese, I started recording about 1415:25. Each cycle in the audio ended with something similar to "oh sie". At 1418:48 the last cycle ended with a different word.

The carrier continued with no modulation until 1419:08 when a different sounding YL voice came up in Chinese and started repeating a similar sounding phrase to the first half of the transmission. This message ended at 1427:07, 4 minutes and 59 seconds after it started. It also ended with a different word, as had the first message.

Looking at the ECL and listening to audio examples I believe what I heard was V16. Each cycle ending in something like "oh sie", 5 minute transmission (per message). The description in the ECL contains little other than that.

The Enigma newsletters since 2000 (the oldest on the web site) say nothing about the station. Neither do any of the Numbers and Oddities newsletters I can get hold of. I am still looking through the old Wunclub newsletters, but so far found nothing there either.

Here is a video of my reception this morning, it starts in the first message, includes the gap between the messages, includes the first minute or so of the second message, and then I jump to the last 45 seconds of the transmission. [http://www.youtube.com/watch?v=Gfiv\\_v3NzNw](http://www.youtube.com/watch?v=Gfiv_v3NzNw)

The plot thickens as we ask V16or V25?

11323kHz1400z 30/05 AM ends 1414z T! WED

316 de 728 no work/business  
316 de 728 no work/business. out

375 de 138 no work/business  
375 de 138 no work/business goodbye

notes: no work/business - wu shih (sounds like English word 'sure')  
out - zai hui  
goodbye - zai jian Courtesy dj

Does anyone have a better fit for identifying this transmission? Thanks T, hope you get an answer. Thanks Ary and dj also.

Spectre has supplied a breakdown of the Chinese number system, complete with a radio accented figure one ---- Thanks Spectre.



## Polytones

XPA2:

Not many observations recorded for May; those that have been monitored seem to be of good strength. we see the return of the Sunday/Tuesday 2100z schedule thanks to RNGB's attempts.

XPA:

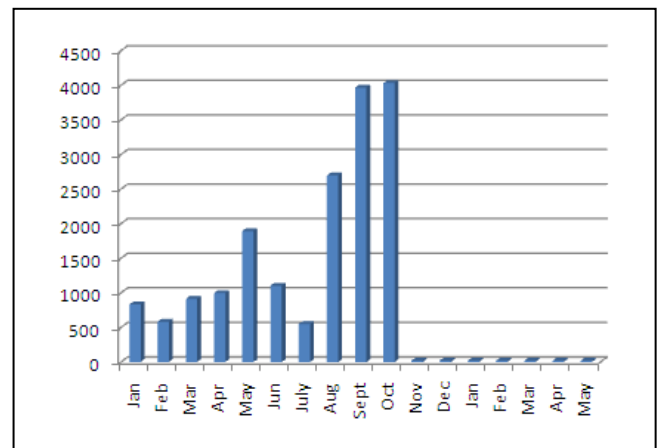
In May we were down to two known schedules XPAb and XPAe; early morning and late afternoons.

I had written at the start of the draft copy of this newsletter "Strangely XPAb still continues with null messages since the October 2011 arrests of the two German spies, as illustrated in the graph, right. All generally of very good strength."

Sadly the transmission ended on 7<sup>th</sup> June 2012 with:  
101 000 08692 00001 00000 10140, all sendings very strong.

When you consider that apart from two messages it has sent nothing but a null message since its suspected recipients Heidrun and Andreas A were arrested for espionage on 18th October 2011; perhaps we've been lucky its lasted this long.

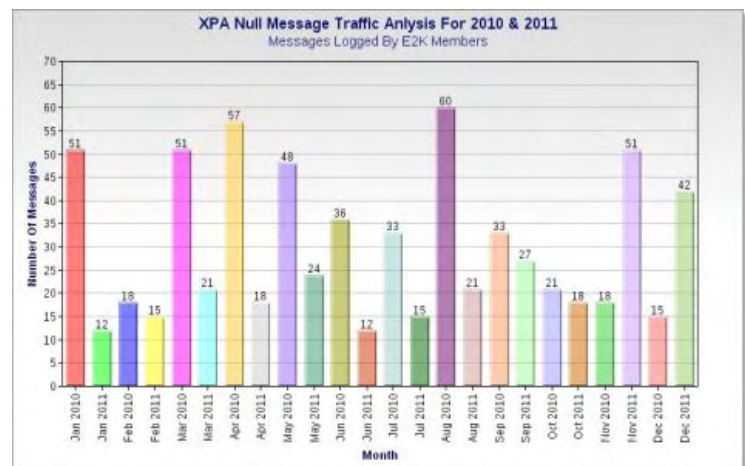
The known remaining schedule XPA e has been joined by a Wed & ??? found by RNGB: 11409kHz0600z; 13509kHz0620z; 14609kHz0640z Heard Wednesday Rpt Sun, Mon or Tue.



XPA b message count January to 18<sup>th</sup> October 2011

XPA Message Analysis .

Spectre has kindly sent two charts showing the change in full and null messages:



Using these two charts compiled by Spectre across 2010 and 2011 one can see a decrease in sendings; to prove the decrease as I write this only XPA e remains.

Thanks to all monitors who have sent logs, thoughts and cuttings from the world of espionage.

## German Branch Report

Hello all,

Since early June we noticed, that X06 is declining. Our X06 team members tried to find the station on all known frequencies, but with only little success. We know, that X06 isn't really away, and I'm sure, that it will come back with more transmissions, but now we have more logs in May and only less in June, as you can see below. Anyway, we don't give up and go on searching. We would appreciate every kind of support in finding X06. We presume, that they change frequencies. As you can see, it appeared on unusual ones in the last weeks we found it. So if you have time to search for X06 and find something, please let us know either via group or via email to our vice-Kopf Peter ([Peter@bmsona.co.uk](mailto:Peter@bmsona.co.uk)) or to me ([Jochen.Schupper@gmx.de](mailto:Jochen.Schupper@gmx.de)). Already we say many thanks to your support.

X06 Mazielka (1C) logs section

Date	Day	UTC	Freq	Scale	Monitor	Comments
20120502	Wed	0810-0819	12152	432516	Peter/UK	Alert type 2.1 Weak, M415*
20120502	Wed	0819-0820	14377	432516	Peter	2.2 Fair, M416*
20120502	Wed	0824-0844	14631	362154	Peter, Ian	Good, M417
20120502	Wed	1342-1351	14650	215346	Peter, Ian	Fair, M418
20120503	Thu	0710-0713	16277	436512	Peter	Fair, M419
20120504	Fri	0817-0821	16219	324615	Peter	Strong, M420
20120504	Fri	1032-1036	14824	625413	Peter	Very weak, M421
20120506	Sun	1440-1442	16317	612534	Ian Wraith	G
20120508	Tue	1115	14650	215346	Linkz/FR	G
20120510	Thu	0734-0736	7988	561243	Peter	Very weak, R
20120510	Thu	0940-0944	16223	164532	Peter	Good, M422
20120510	Thu	1912-1918	11125	216354	PosW	S9+, R
20120510	Thu	1918	12207	215346	PosW	Alert 2.1 S6, G

Date	Day	UTC	Freq	Scale	Monitor	Comments
20120510	Thu	1926-1931	8105	314265	Ian, PoSW	Strong, G
20120510	Thu	1934-1938	9076	215346	PoSW	2.2 G
20120511	Fri	0740-0756	14650	215346	Peter	Very strong, M423
20120511	Fri	0749-0751	10653	356412	Peter	Good, M424
20120511	Fri	0815-0816	16153	153624	Peter	Very weak, barely audible, M425
20120514	Mon	1259-1303	15656	364152	Peter	Good, M426
20120514	Mon	1406-1407	11492	364152	Ian	New freq, G
20120515	Tue	0812-0821	9450	165423	Peter	Good and clear, M427
20120515	Tue	0833-0840	13401	154263	Peter	Strong and clear, M428
20120516	Wed	0704-0708	12150	256341	Peter	Fair to good, M429
20120516	Wed	0818-0828	14377	432516	Peter	Good, M430
20120516	Wed	0831-0833	14631	362154	Peter	Good, M431**
20120517	Thu	0720-0723	12219	162543	Peter	Only visible not audible, M432
20120518	Fri	0634-0640	16320	241563	Peter	Good, M433
20120518	Fri	0957-0959	14501	361245	Peter	Fair to good, M434
20120521	Mon	0644-0646	12122	165324	Peter	Fair, M435
20120521	Mon	1531-1533	12199	532614	Peter	Very strong, M436
20120523	Wed	0734-0745	13369	412356	Peter	Alert 2 (both fair to good).1 M437
20120523	Wed	0746-0752	11483	412356	Peter	2.2 M438
20120523	Wed	0752	14871	156234	Peter	Shortie, fair to good, G
20120523	Wed	0756-0803	13419	465132	Peter	Fair to good, M439
20120523	Wed	0900-0904	16116	134265	Peter	Fair to good, M440 (0905: CROWD36)
20120524	Thu	0747-0750	14418	521634	Peter	Good and clear, M441
20120525	Fri	0750-0752	10653	356412	Peter	Good, M442 (0754: CROWD36)
20120525	Fri	0803-0805	16153	153624	Peter	Good, M443
20120601	Fri	0957-0959	12215	361245	Peter	Fair, M444
20120601	Fri	1023-1024	14824	625413	Peter	Very weak, M445
20120606	Wed	1047-1049	14631	362154	Peter	Fair, M446
20120606	Wed	1448	16320	241563	Peter	Shortie (only 5 secs), G
20120606	Wed	1454	14650	215346	Peter	Shortie (only 15 secs), M447
20120607	Thu	0803	11462	165423	Leif Dehio	G
20120608	Fri	0808	16153	153624	Leif	M448
20120621	Thu	0638-0650	16901	12-3-6	Spectre/UK	X06b, fair, QRN2, QSB2

\* Both carriers continued till 0827 UTC.

- \*\* Starting at 0830 UTC with "432516"

Thanks to all loggers, especially the Spectre and PoSW. Next time there will be more I'm sure, and we hope, that this decline is only temporally. Till the next E2K issue report I say good-bye

Jochen Schäfer, the X06 Teamkopf – aged 40 since June 29!

## MORSE STATIONS

All frequencies listed in kHz. Freqs are generally +/- 1k

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

M01/3 XIV MCW, hand (025 sched for May - Aug). Will change to M01/2 sched ID 463 for Sept - Oct. No repeat msgs sent.

### May 2012:

4905	2000z	01 May	'025' 340 30 ==	53878...	...LG 05035 == Strong, fast. Corrected errors call-up & grp28	BR/HFD	TUE
	2000z	03 May	'025' 811 30 ==	84773...	...LG 02803 == Strong, fast. Uncorrected errors. Ending ==	BR	THU
	1959z	08 May	'025' 525 30 ==	37562...	...LG 82893 V.Strong, fast. Error grp14. == missing at end	BR/FN	TUE
	2000z	10 May	'025' 174 30 ==	39493...	...LG 09256 == Good, fast. Corrected error in grps20 / 21	BR	THU
	2000z	15 May	'025' 503 30 ==	14005...	...LG 35150 == Strong, med-fast. Good CW with no errors	BR	TUE
	2000z	17 May	'025' 078 30 ==	10553...	...LG 49670 == V. Strong, V. fast. Error in grp14.	BR	THU
	2000z	22 May	'025' 790 30 ==	80730...	...LG 74796 == Strong, med-fast.	BR	TUE
	2000z	24 May	'025' 896 30 ==	36981...	...LG 60465 == Strong, fast. No noted errors.	BR	THU
	2000z	29 May	'025' 707 30 ==	96566...	...LG 31034 == Strong, fast. Errors noted. Only 27 grps logged	BR	TUE
	2000z	31 May	'025' 101 30 ==	76767...	...LG 01144 == Strong, V.fast. Errors on Grps 01 & 02	BR	THU
5280	1800z	01 May	'025' 210 30 ==	11204...	...LG 30542 == Good, fast. Corrected error in grp23	BR	TUE
	1800z	03 May		NRH		BR	THU
	1800z	08 May	'025' 007 30 ==	89707...	...LG 75726 V.Strong, fast. Error grp11. == missing at end.	BR/FN/HFD	TUE
	1800z	10 May	'025' 701 30 ==	17634...	...LG 16216 == Strong, fast. Good CW with no errors.	BR	THU
	1800z	15 May	'025' 448 30 ==	08440...	...LG 35932 == Strong, med-fast	BR	TUE
	1810z	17 May	'025'		V. Weak sig. Call-up heard 10 mins late, No readable copy	BR	THU
	1804z	22 May	'025' 273 30 ==	84496...	...LG 90009 == Weak, No call-up. Started 1804z with DK/GC	BR	TUE
	1800z	24 May		NRH		BR	THU
	1800z	29 May	'025'	83624...	...LG .... == V.weak, fast. Very poor copy	BR	TUE
	1800z	31 May	'025' 673 30 ==	88162...	...LG 18827 == Weak, fast. Fair copy	BR	THU
6435	1505z	05 May	'025' 510 30 ==	34375...	...LG 03899 == Fair, fast. No call-up, started with DK at 1505z	BR/HFD	SAT
	1500z	12 May	'025' 217 30 ==	58389...	...LG 47008 == Fair, fast. Multiple uncorrected errors	BR	SAT
	1500z	19 May	'025' 213 30 ==	. 7008...	...LG ..... == Weak, fast. Poor copy	BR	SAT
	1500z	26 May		NRH		BR	SAT

6780	0700z	06 May	'025'	611 30 ==	47360...	...LG 19306 ==	BR/FN	SUN
M01 6780 0700z 06 May SUN								
025 611 30 = 47360 88553 35778 07475 65340 04844 14543 13385 57591 20872 22691 69975 88809 08701 75092 93352 67127 71518 50490 29279 45356 39483 08943 13963 99571 62601 13265 12612 85945 19306 = 611 30 000 Courtesy FN								
0700z	13 May	'025'	839 30 ==	75107...	...LG 73957 ==	Fair, fast. Uncorrected errors grps04, 16, 18.	BR/FN	SUN
0700z	20 May	'025'	654 30 ==	01954...	...LG 70196 ==	Fair, fast	BR	SUN
0700z	27 May	'025'			V.Weak sig.	Severe QRM from adjacent XJT. No useful copy	BR	SUN

### June 2012:

BR reports some curious events on the 5280kHz, 1800z transmission on Thursday 07 June;

*Call-up was slow and casual with a good signal, but high noise. At 1804z when the call ceased briefly before sending detail another station called on the freq. It turned out to be a Welsh amateur station. I didn't catch all the detail, but this is as accurate as I can make it.*

M01: 025 025 025 [pause]  
Am: ? ? ? GW0TAU GW0TAU K  
M01: 1564..  
Am: QRZ ? GW0TAU GW0TAU GW0TAU pse K  
M01: 32184 8..  
Am: CQ CQ CQ De GW0TUA GW0TAU GW0TAU K

*Nothing more was heard from either station after this brief exchange. It may have been co-incidence that M01 ceased transmission as the Amateur started sending. There was some overlap of sending, but it did sound as if M01 had heard the amateur call, and had been confused by it.*

*GW0TAU could obviously hear M01. Whether he was trying to call M01 believing it was another amateur or was just confused by the station, only he knows. The freq is actually one of several spot freqs allocated by Ofcom for temporary amateur use until 2015.*

*GW0TAU comes back as a Paul Jones from Swansea.*

4905	2000z	05 Jun	'025'	098 30 ==	63048...	...LG 10368 ==	Strong, slow, halting delivery. Corrected errors	BR	TUE
	2000z	07 Jun	'025'	312 30 ==	96786...	...LG 48963 ==	Strong, slow delivery with pauses between nos.	BR	THU
	2000z	12 Jun	'025'	265 30 ==	87920...	...LG 33218 ==	Good, v.slow. grp03 987117 98717	BR	TUE
	2000z	14 Jun	'025'	505 30 ==	36121...	...LG 05050 ==	Strong, fast. grp02 39998 31998	BR	THU
	2000z	19 Jun	'025'	299 30 ==	05508...	...LG 33085 ==	Strong, slow. grp24 56656 57757	BR	THU
	2000z	21 Jun			NRH			BR	THU
5280	1800z	05 Jun	'025'	473 30 ==	64361...	...LG 43390 ==	Fair, med-fast. Good CW	BR	TUE
	1800z	07 Jun	'025'				<i>Amateur station calling on freq - See report above</i>	BR	THU
	1800z	12 Jun	'025'	835 30 ==	38330...	...LG 15692 ==	Fair, V.slow with QSB	BR	TUE
	1800z	14 Jun	'025'	405 30 ==	796 . . .	...LG 77623 ==	Weak, fast. Very poor copy.	BR	THU
	1800z	19 Jun	'025'		NRH			BR	TUE
	1800z	21 Jun	'025'	491 30 ==	82256?...	...LG 80445? ==	Weak /Fair, fast. QSB Poor variable copy	BR	THU
6435	1500z	02 Jun	'025'	924 30 ==	33925...	...LG 39854 ==	Fair, fast. Grp25 31824 21824.	BR	SAT
	1500z	09 Jun	'025'	.08? 30 ==	9241 . . .	...LG . . . . .	Weak, fast. Severe QRM from adjacent XJT	BR	SAT
	1500z	16 Jun	'025'				Very weak. Despite moderate noise, no useful copy	BR	SAT
	1500z	23 Jun	'025'	007 30 ==	07391...	...LG 82675 ==	Good, fast. grp15 272 47272	BR	SAT
6780	0700z	03 Jun	'025'	301 30 ==	. . .775?..	...LG . . . . .	Fair, fast. Severe QRM from adjacent XJT	BR/RNGB	SUN
	0700z	10 Jun	'025'	373 30 ==	63513...	...LG . . . . .	Fair, fast. Extreme QRM from adjacent XJT	BR	SUN
	0700z	24 Jun	'025'	199 30 ==	67169...	...LG 95948 ==	Good, med-fast. Corrected error grp24	BR	SUN

### M01a (formerly end of month TXs, now random)

No reports

### M01b

Hans-Friedrich had an interesting find on Thu 03 May. 'At 1832z I checked 5095/5760 for the summer 815 sked of M01B. And what did I hear? "815" in male Russian voice. At 1835 the man gave "785/30 34122..."'. At 1837 the op noticed the error and stated again in CW: "785 30 = 34122..." 'HFD

### May 2012:

4895//5340	2010z	04 May	'467'	785 30 =	34122...		GD/HFD	FRI
5075//5465	1902z	04 May	'336'	785 30 =	34122...		GD/HFD	FRI
	1902z	11 May	'336'	785 30 =	34122...		FN	FRI
	1902z	18 May	'336'	785 30 =	34122		FN	FRI
5095//5760	1837z	03 May	'785'	34122...	(Mix up by Op. - see above comments from HFD)		HFD	THU
5096	1832z	10 May	'815'	785 30 =	34122.... (NRH on 5761kHz - Carrier up)		FN	THU
5125*/5735	1810z	07 May	'364'	785 30 =	34122 43115 27108 50832.....		FN/RNGB	MON
	1810z	14 May	'364'	785 30 =	34122.... (Very weak sig on 5126kHz - FN)		FN/HFD	MON
* RNGB notes that the 2nd harmonic on 10250kHz was much stronger!								

5150//5475	1915z 1915z	07 May 14 May	'858' 785 30 = 34122 43115... etc. '858' 785 30 = 34122...	FN/RNGB HFD	MON MON
5805	1942z 1942z	03 May 10 May	'936' '936' 785 30 = 34122... (NRH on 5065kHz - Carrier up)	HFD FN	THU THU
5811	1515z	18 May	'158' 065 32 = 50532...	FN	FRI
5938	1505z	17 May	'159' 065 32 = 50532...	FN/HFD	THU

#### June 2012:

5095	1832z	07 Jun	'815' 894 70 = 32221 16228 55308 87413 etc. long message	GD/RNGB	THU
5475	1915z	11 Jun	'364' 894 70 =	GD	MON
5735	1810z	11 Jun	'364' 894 70 =	GD	MON
5805	1942z	0 Jun	'936' 894 70 =	GD	THU

#### M01c

A rare catch from RNGB;

*Found in progress on 10953 at 1420 with at least 2 messages all hand sent. All groups repeated. Slowly sent (4 groups a minute including repeat)*

10953	1420z (IP) 1422z	02 Jun (2nd msg)	'327' 194 40 = .....LG 07851 = 194 30 (Ends 1422z Followed by 2nd msg ) 512 40 = 49849 01496 10361 61364 69436.....64035 = 512 40 = 000 1434z	RNGB	SAT
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#### M03 III ICW, some CW

6524	1535z 1535z	05 May 08 May	798/00 = 000 798/00 = 000	FN FN	SAT TUE
7727	1332z (IP) 1320z	16 May 23 May	(In progress ends at 1337z:) 07970 74337 09361 == 000 543/00	FN RNGB	WED WED
	1320z	04 Jun	546/36 = 03040 46157 31308 17390.....377772	RNGB	MON
7837	1320z 1115z 1115z 1115z 1320z 1320z 1115z	06 May 08 May 09 May 10 May 10 May 13 May 17 May	437/00 = 000 272/00 = 000 650/00 = 000 650/00 = 000 433/36 = 43298 28110... = 000 433/36 = 43298 28460 99451 88396... etc 650/00	FN/HFD FN FN FN FN RNGB HFD	SUN TUE WED THU THU SUN THU

M03c (Stutter groups) No reports

M03d No Reports

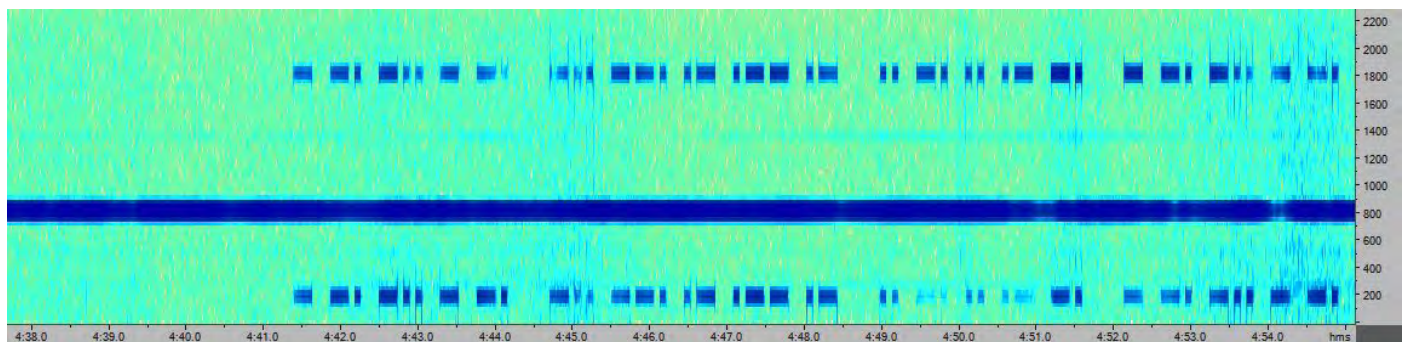
M03e No reports

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

These are the frequencies logged during the period, to be read in conjunction with Mark Slaten's charts.

#### May 2012:

5800	0608z(IP)	20 May	[i/p] fair	gil	SUN
5898	0502z 0500z 0500z 0500z	04 May 05 May 06 May 07 May	[12345 67890] Weak [50062 78421 72462] Fair, QSB2 [820Hz heterodyne, SK01 present] Fair [02302 38151 72712] ARARAR SK 0538z started 20s early Fair	PLdn PLdn PLdn PLdn	FRI SAT SUN MON

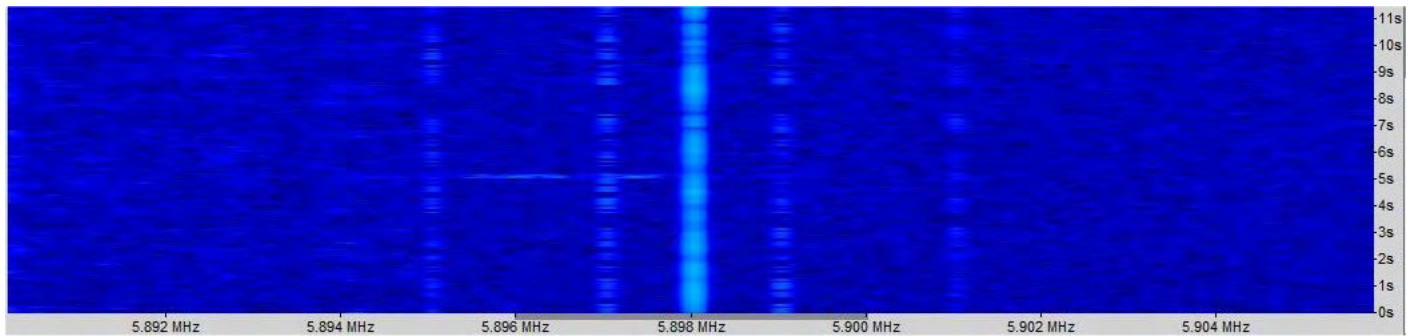


07 May 0500z Two traces seen, identical msg content 1600Hz apart, one 200Hz other 1800Hz with 821Hz heterodyne.

Courtesy PLdn

0505z	11 May	[28452 46631 26241] Fair	PLdn	FRI
0500z	12 May	[32161 41642 11152] Fair, QSB3	PLdn	SAT
0505z	13 May	[12345 67890 into 74302 86421 67031] 0534z Fair, QSB2	PLdn	SUN
0500z	14 May	[82361 28461 25802] Fair, QSB3	PLdn	MON

0500z	19 May	[73721 66402 11022 ARARAR SK] 0534z Fair	PLdn	SAT
0505z	20 May	[80361 68532 42422] Fair, QSB2 ended ARARAR SK 0539z	PLdn	SUN
0500z	21 May	[44611 88001 26612] Weak and noisy, unsure of order of groups	PLdn	MON
0500z	26 May	[17532 43622 28162] Strong, QSB2	PLdn	SAT
0501z	27 May	[43022 26351 61121] Strong	PLdn	SUN
0500z	28 May	[46580 78261 70512] Fair, QSB2	PLdn	MON
0505z	31 May	[82145 51332 12336] Actual headers sent: 81245 65102 78531 ending ARARAR SK 0535z Fair	PLdn	THU



M08a Transmission on 5898kHz showing two traces either side of the carrier. 31<sup>st</sup> May 0505z  
PLdn believes this is due to the transmitter being keyed in CW while set for SK01 transmissions.

Courtesy PLdn

6932	2100z	31 May	[In progress, 61351, 864--] QSA1 QSB5 ( bad fading )	HT	THU
7519	2200z	18 May	[22722, 63211, 20341] QSA2-4 QRN3 QSB3	Herb	FRI
7554	2000z	18 May	[85301, 13511, 13611] QSA1 QRN4 QSB4 Very weak	Herb	FRI
7579	1300z	07 May	[04142, 71431, 01712] QSA4 QRN3	Herb	MON
	1300z	08 May	[31541, 84632, 77251] QSA4 QRN4	Herb	TUE
	1300z	09 May	[46131, 71821, 85371] QSA4	Herb	WED
	1300z	15 May	[11552, 11472, 52582] QSA4	Herb	TUE
	1300z	18 May	[57641, 00041, 15302] QSA5 QRN3	Herb	FRI
	1300z	21 May	[54422, 74072, 14452] QSA4	Herb	MON
	1308z	22 May	[37571, 57131, 35012] QSA4 ( late start and transmitter trouble )	Herb	TUE
8009	2200z	31 May	[88831, Signal faded completely] QSA1 QSB5	HT	THU
8096	1400z	08 May	[31541, 84632, 77251] QSA4	Herb	TUE
	1400z	09 May	[46131, 71821, 85371] QSA4	Herb	WED
	1400z	18 May	[57641, 00041, 15302] QSA3 QRN3	Herb	FRI
	1400z	21 May	[54422, 74072, 14452] QSA4	Herb	MON
	1402z	22 May	[37571, 57131, 35012] QSA4	Herb	TUE
9112	1000z	18 May	[83522, 10102, 51522] QSA5	Herb	FRI
9153	0707z	23 May	[i/p] fair	gil	WED
13380	2000z	31 May	[31001, 57751, 44422] QSA3 ( transmitter trouble )	HT	THU

#### June 2012:

GT = Global Tuners (Online remotely controlled receivers)

5898	0503z	01 Jun	[35782 46422 60752] Fair, QSB2	PLdn	FRI
	0459z	02 Jun	[96782 17522 21851] 0533z ends ARARAR SK, Strong	PLdn	SAT
	0507z	03 Jun	[12345 67890 (R)] Fair	PLdn	SUN
	0501z	04 Jun	[45012 67642 71062] Strong, QSB2	PLdn	MON
	0505z	10 Jun	[----- 88120] Weak, noisy and poor	PLdn	SUN
	0500z	16 Jun	[16881] Very poor, high noise, QRN poor condx	PLdn	SAT
	0503z	17 Jun	Carrier only	PLdn	SUN
	0505z	21 Jun	[05152 60001 72731] Weak, QSB3	PLdn	FRI
	0500z	23 Jun	Carrier only	PLdn	SAT
	0500z	24 Jun	Carrier only	PLdn	SUN
7319	1009z(IP)	04 Jun	[In progress, 68001, 73021 ] QSA5 QRN2	HT	MON
7519	2200z	04 Jun	[41551, 52301, 65622] QSA4 QRN4	HT	MON
7579	1300z	01 Jun	[Late transmitter start, 74782, 80241 ] QSA5 (1240z chimes randomly sounding ( computer ), and occasional thumping/tapping until M08a start).	HT	FRI
	1300z	04 Jun	[78401, 02722, 15151] QSA5	HT	MON
	1300z	22 Jun	[255-- ] Transmitter cut out	HT	FRI
8009	2300z	04 Jun	[41551, 52301, 65622] QSA3	HT	MON
8096	1400z	01 Jun	[73362, 74782, 80241] QSA3 QSB4	HT	FRI
	1900z	01 Jun	[64231, 02272, 32612] QSA1 QRN4 QSB4	HT	FRI
	1400z	04 Jun	[78401, 02722, 15151] QSA4	HT	MON

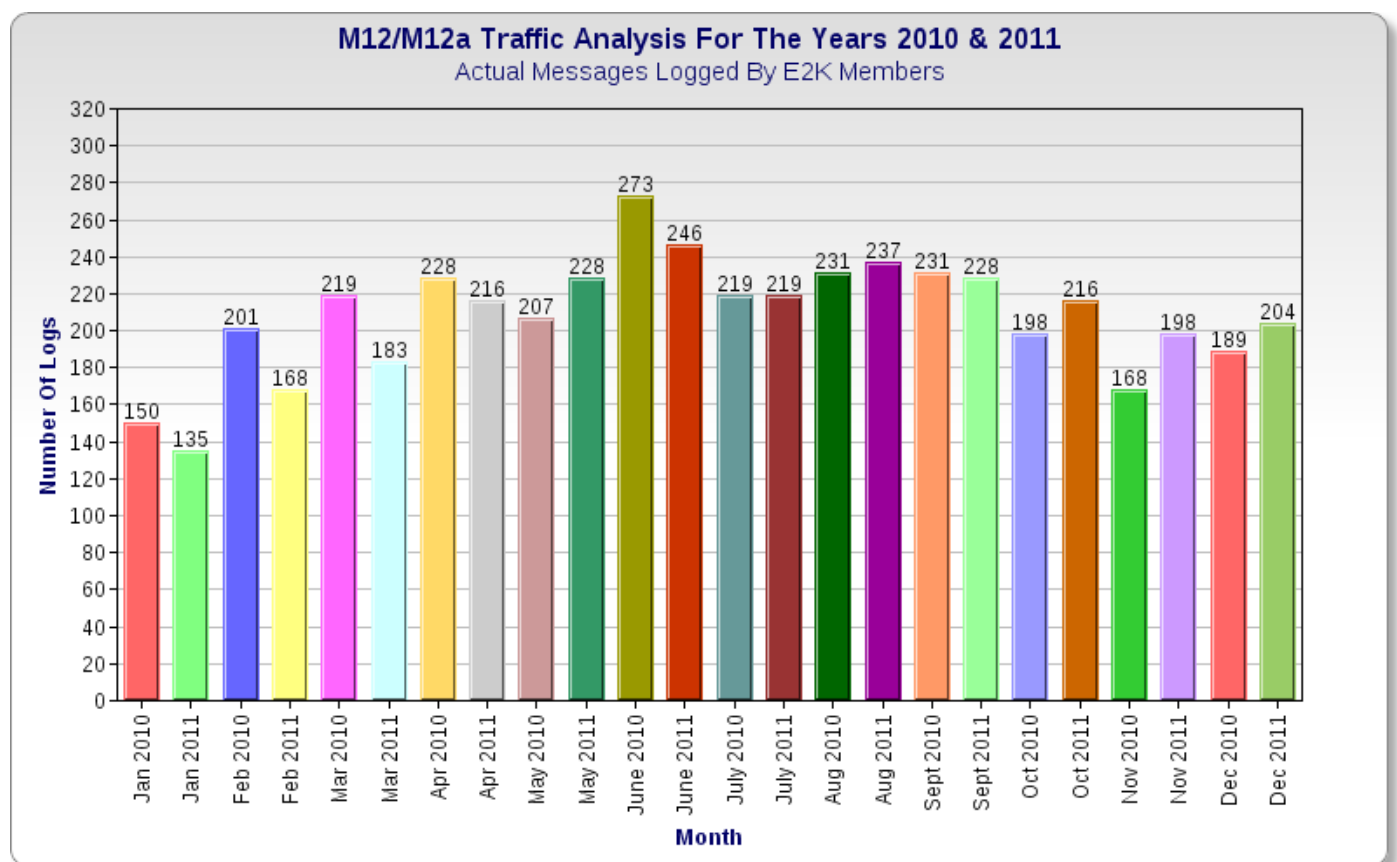


	1900z	04 Jun	[48302, 47262, 87682]	QSA2 QRN4	HT	MON
	1400z	22 Jun	[25531, 38062, 41381]	QSA2 QSB4	HT	FRI
9111	1000z	22 Jun	[78641, 82472, 05402]	QSA3	HT	FRI
9113	1000z	01 Jun	[15612, 65582, 15012]	QSA5	HT	FRI
<b>M08c</b> No reports			<b>M08d</b> No reports			

**M12** IB ICW, some MCW / CW, short 0. Reuses many freqs year on year.

To be read in conjunction with Brian's included monthly charts. New ID's may be only for the month/sched shown, but not necessarily unknown , all are clearly identified on Brian's charts. The reason for their reuse, some after long periods of time, is unknown.

### Traffic Analysis

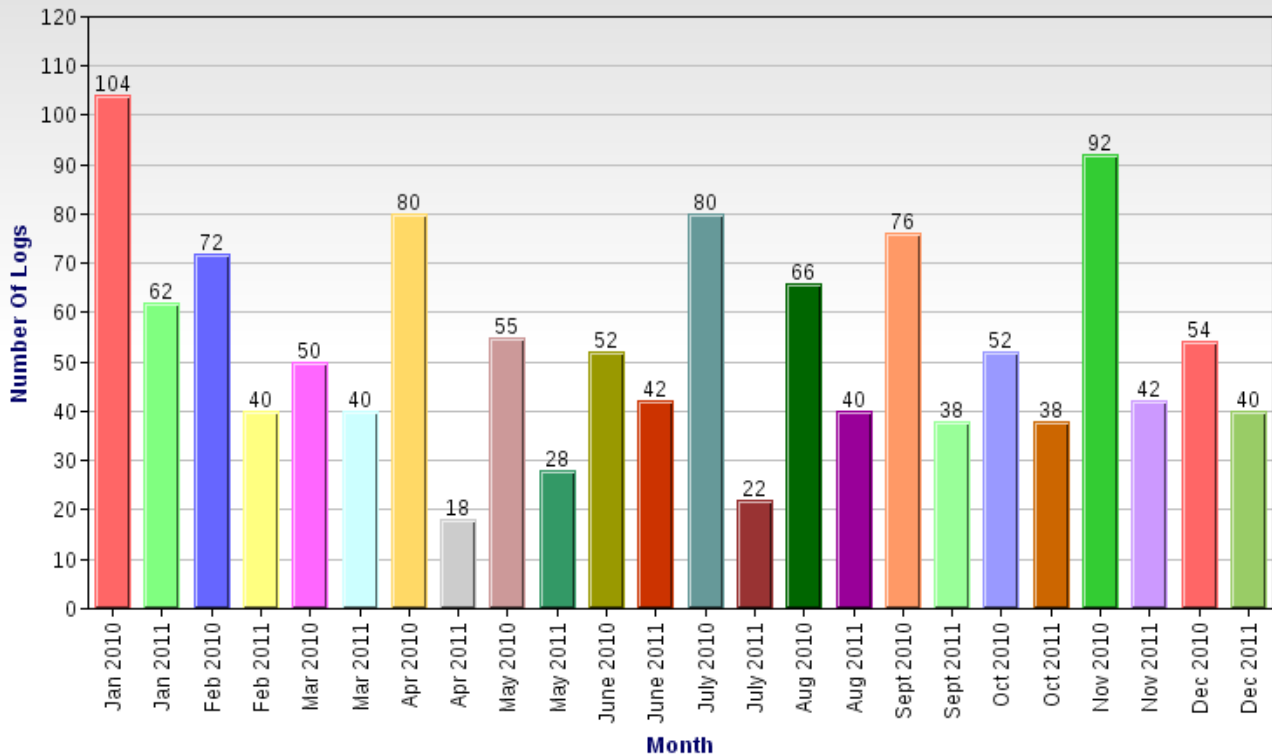


Spectre continues his work on traffic analysis using bar charts, here turning his attention to M12. There are two charts covering the period from Jan 2010 to Dec 2011 with each month paired together for comparison. The first chart shows the total number of actual messages while the second shows the number of null messages sent for the same period.

A good deal of useful information can be gleaned from a few minutes study of the charts that would not otherwise be immediately available without detailed study, and we are indebted to Spectre for his diligence. The only caveat being that the information is based on submitted logs which may not be complete due to missed or unknown transmissions. Having said that we have managed to achieve a fairly consistent monitoring of M12's output over the period in question.

## M12/M12a Traffic Analysis For The Years 2010 & 2011

Null Messages Logged By E2K Members



Many thanks to Spectre for his hard & excellent work.

### May 2012:

6857/7557/---	0430/0450/0610z	14 May	850 000		FN	MON
	0430/0450/0610z	28 May	850 000		FN	MON
7984/9184/---	0630/0650/0710z	10 May	911 000		FN	THU
	0630/0650/0710z	17 May	911 000		FN	THU
	0630/0650/0710z	24 May	911 000		FN	THU
	0630/0650/0710z	31 May	911 000		FN	THU
8047/6802/5788	1700/20/40z	09 May	463 1 (7321 71) 48009...		FN	WED
	1700/20/40z	16 May	463 1 (5025 93) 69134...		FN	WED
	1700/20/40z	23 May	463 1 (6096 73) 63330...		FN	WED
	1700/20/40z	30 May	463 1 (4308 56) 62807...		FN	WED
8173/9173/---	0340/0400/0420z	15 May	111 000		FN/HFD	TUE
	0340/0400/0420z	17 May	111 000		FN	THU
	0340/0400/0420z	22 May	111 1 (342 239) 57245...		FN	TUE
	0340/0400/0420z	29 May	111 1 (288 197) 20417...		FN	TUE
	0340/0400/0420z	31 May	111 1 (288 197) 20417... (rpt of 29 May 0340z)		FN	THU
9176/7931/6904	1900/20/40z	03 May	257 1		HFD	THU
	1700/20/40z	07 May	257 1 (3083 72) 71082...		FN	MON
	1800/20/40z	07 May	257 1 (8914 66) 57019...		FN	MON
	1900/20/40z	07 May	257 1 (1674 55) 05657...		FN	MON
	1700/20/40z	10 May	257 1 (5328 47) 27954...		FN	THU
	1900/20/40z	10 May	257 1 (9502 49) 15103...		FN	THU
	1700/20/40z	14 May	257 1 (9591 79) 00805...		FN/HFD	MON
	1800/20/40z	14 May	257 1 (5324 61) 70659...		FN	MON
	1900/20/40z	14 May	257 1 (7304 87) 80006...		FN	MON
	1700/20/40z	17 May	257 1 (9330 58) 43931...		FN	THU
	1900/20/40z	17 May	257 1 (5850 68) 42142...		FN	THU
	1700/20/40z	21 May	257 1 (7971 76) 69101...		FN	MON
	1800/20/40z	21 May	257 1 (1737 50) 83008...		FN	MON
	1900/20/40z	21 May	257 1 (1729 80) 61367...		FN	MON
	1700/20/40z	24 May	257 1 (5281 69) 03701...		FN	THU
	1900/20/40z	24 May	257 1 (5467 62) 88044...		FN	THU
	1700/20/40z	28 May	257 1 (4206 73) 38161...		FN	MON
	1800/20/40z	28 May	257 1 (3711 64) 93625...		FN	MON
	1900/20/40z	28 May	257 1 (5806 60) 75319...		FN	MON
	1700/20/40z	31 May	257 1 (7367 52) 15768...		FN	THU
	1900/20/40z	31 May	257 1 (5855 65) 88705...		FN	THU

9241/7541/---	2100/20/40z	02 May	258 000		HFD	WED
	2100/20/40z	09 May	258 000		FN	WED
	2100/20/40z	16 May	258 000		FN	WED
	2100/20/40z	23 May	258 000		FN	WED
	2100/20/40z	30 May	258 000		FN	WED
10343/9264/8116	1830/1850/1910z	08 May	124 1 (5201 64)	32367...	FN	TUE
	1700/20/40z	10 May	124 1 (4766 80)	98025...	FN	THU
	1800/20/40z	10 May	124 1 (8242 78)	41523...	FN	THU
	1800/20/40z	11 May	124 1 (4529 85)	98673...	FN	FRI
	1830/1850/1910z	15 May	124 1 (2606 62)	63638...	FN	TUE
	1700/20/40z	17 May	124 1 (3596 70)	72021...	FN/HFD	THU
	1800/20/40z	17 May	124 1 (1922 81)	95190...	FN	THU
	1800/20/40z	18 May	124 1 (4655 81)	74632...	FN	FRI
	1830/1850/1910z	22 May	124 1 (4076 52)	88790...	FN	TUE
	1700/20/40z	24 May	124 1 (3812 71)	85564...	FN	THU
	1800/20/40z	24 May	124 1 (9108 83)	50212...	FN	THU
	1830/1850/1910z	29 May	124 1 (2836 67)	68416...	FN	TUE
	1700/20/40z	31 May	124 1 (406 73)	28701...	FN	THU
	1800/20/40z	31 May	124 1 (406 73)	28701... (rpt of 31 May. 1700z)	FN	THU
11435/10598/9327	1830/1850/1910z	09 May	938 1 (2130 70)	03510...	FN	WED
	1830/1850/1910z	16 May	938 1 (5503 52)	94268...	FN	WED
	1830/1850/1910z	23 May	938 1 (1402 54)	82554...	FN	WED
	1830/1850/1910z	30 May	938 1 (3184 65)	47802...	FN	WED
12162	1600z	07 May	546 1 (2216 99)	02343 37354.....	RNGB	MON
12162/10566/10711	1600/20/40z	14 May	546 1 (1519 74)	95881 17691....	FN/HFD/RNGB	MON
	1600/20/40z	21 May	546 1 (4484 75)	03032...	FN	MON
	1600/20/40z	28 May	546 1 (662 55)	47663...	FN	MON
12217/10617/---	1830/1850/1910z	06 May	263 000		FN	SUN
12217/10617/9317	1830/1850/1910z	09 May	263 1 (852 137)	80392...	FN	WED
	1830/1850/1910z	13 May	263 1 (852 137)	80392... (rpt of 09 May 1830z)	FN	SUN
	1830/1850/1910z	16 May	263 1 (389 175)	66736...	FN	WED
	1830/1850/1910z	20 May	263 1 (389 175)	66836 76210 etc ... (rpt of 18 May 1830z)	FN/RNGB	SUN
	1830/1850/1910z	23 May	263 000		FN/RNGB	WED
	1830/1850/1910z	27 May	263 000		FN	SUN
	1830/1850/1910z	30 May	263 1 (487 153)	26709...	FN	WED
13926/12126/---	1310/30/50z	12 May	919 000		FN	SAT
13926/12126/10926	1310/30/50z	19 May	919 1 (571 93)	79648...	FN/HFD	SAT
	1310/30/50z	24 May	919 000		FN	THU
	1310/30/50z	26 May	919 000		FN	SAT
	1310/30/50z	31 May	919 000		FN	THU
14372/13472/11472	1300/20/40z	07 May	344 1 (687 107)	64061 94092....	FN/RNGB	MON
	1300/20/40z	14 May	344 1 (487 53)	59135 86099....	FN/RNGB	MON
	1300/28/56z	21 May	344 1 (854 325)	85790 22189 ... long message, start displaced on repeats.	FN/RNGB	MON
	1300/20/40z	28 May	344 1 (454 297)	77175...	FN	MON
14869/13569/---	2110/30/50z	05 May	851 000	<b>New sched for May</b>	BR	SAT
14869/13569/12179	2110/30/50z	16 May	851 1 (965 121)	<b>New sched for May</b>	BR/GN	WED
	2110/30/50z	19 May	851 1 (965 121)	28996...	FN	SAT
	2110/30/50z	23 May	851 000		FN	WED
	2110/30/50z	26 May	851 000		FN	SAT
	2110/30/50z	30 May	851 000		FN	WED
14942/13392/12126	1500/20/40z	09 May	344 1 (687 107)	64061... (rpt of 07 May 1300z)	FN	WED
	1500/20/40z	16 May	344 1 (487 53)	59135... (rpt of 14 May 1300z)	FN/HFD	WED
	1500/28/56z	23 May	344 1 (854 325)	85790 22189... (rpt. of 21 May 1300z) start displaced	FN/RNGB	WED

#### Spectre's M12 Logs

6904kHz	1740z	07/05 [257 1 3083 72 71082 32306 93236 ... 11824 000 000]	1746z Fair QRN3 QSB3	Spectre	MON
	1840z	07/05 [257 1 8914 66 57019 78962 55473 ... 37079 000 000]	1846z Fair QRN3 QSB3	Spectre	MON
	1940z	07/05 [257 1 1674 55 05657 26072 34079 ... 51252 000 000]	1945z Fair QRN3 QSB3	Spectre	MON
7931kHz	1720z	07/05 [257 1 3083 72 71082 32306 93236 ... 11824 000 000]	1726z Fair QRN3 QSB3	Spectre	MON
	1820z	07/05 [257 1 8914 66 57019 78962 55473 ... 37079 000 000]	1826z Fair QRN3 QSB3	Spectre	MON
	1920z	07/05 [257 1 1674 55 05657 26072 34079 ... 51252 000 000]	1925z Fair QRN3 QSB3	Spectre	MON
9176kHz	1700z	07/05 [257 1 3083 72 71082 32306 93236 ... 11824 000 000]	1706z Fair QRN3 QSB3	Spectre	MON
	1800z	07/05 [257 1 8914 66 57019 78962 55473 ... 37079 000 000]	1806z Fair QRN3 QSB3	Spectre	MON
	1900z	07/05 [257 1 1674 55 05657 26072 34079 ... 51252 000 000]	1905z Fair QRN3 QSB3	Spectre	MON

**June 2012:**

We start June with a log from MarkSA, who heard this M12 while on his travels in Zambia;

8116	1840z	01 Jun	124 1 ( G55) FG 47663...	...LG 63712	big sig	MarkSA	FRI
6857/ 7557/---	0430/0450/0510z	04 Jun	850 000			FN	MON
7984/9184/---	0630/0650/0710z	07 Jun	911 000			FN	THU
	0630/0650/0710z	14 Jun	911 000			FN	THU
8047/6802/5788	1700/20/40z	06 Jun	463 1 (9707 49) 56224...			FN	WED
	1700/20/40z	13 Jun	463 1 (3352 64) 37704...			FN	WED
8173	0340z	05 Jun	111 000 Weak			Hans	TUE
8173/9173/---	0340/0400z	05 Jun	111 000			FN	TUE
	0340/0400z	07 Jun	111 000			FN	THU
9176/7931/6904	1700/20/40z	04 Jun	257 1 (9241 77) 89909...			FN	MON
	1800/20/40z	04 Jun	257 1 (6719 67) 26095...			FN/RNGB	MON
	1900/20/40z	04 Jun	257 1 (406 73) 28701...			FN	MON
	1700/20/40z	07 Jun	257 1 (7276 88) 33905... strong QRN			FN	THU
	1900/20/40z	07 Jun	257 1 (9516 40) 85077 16608...			FN/RNGB	THU
	1700/20/40z	11 Jun	257 1 (8341 79) 04661...			FN	MON
	1800/20/40z	11 Jun	257 1 (2961 65) 70326...			FN	MON
	1900/20/40z	11 Jun	257 1 (6835 50) 89399...			FN	MON
	1700/20/40z	14 Jun	257 1 (4156 73) 72744...			FN	THU
	190020/40z	14 Jun	257 1 (1392 47) 47779...			FN	THU
9986/9086/---	2100/20/40z	06 Jun	903 000			FN	WED
	2100/20/40z	13 Jun	903 000			FN	WED
10343/9264/8116	1800/20/40z	01 Jun	124 1 (662 55) 47663...			FN	FRI
	1830/1850/1910z	05 Jun	124 1 (689 49) 80859...			FN	TUE
	1700/20/40z	07 Jun	124 1 (8449 80) 03254... strong QRN			FN	THU
	1800/20/40z	07 Jun	124 1 (5504 65) 15320... strong QRN			FN	THU
	1800/20/40z	08 Jun	124 1 (513 58) 54608...			FN	FRI
	1830/1850/1910z	12 Jun	124 1 (247 98) 31600...			FN/GH	TUE
	1700/20/40z	14 Jun	124 1 (7428 72) 64135...			FN	THU
	1800/20/40z	14 Jun	124 1 (1534 92) 61423...			FN	THU
	1800/20/40z	15 Jun	124 1 (5736 84) 42487...			FN	FRI
10843/9243/7843	1830/1850/1910z	03 Jun	828 1 (487 153) 26709...			FN	SUN
	1830/1850/1910z	10 Jun	828 1 (693 247) 83233...			FN	SUN
11435/10598/9327	1830/1850/1910z	06 Jun	938 1 (689 49) 80859...			FN	WED
	1830/1850/1910z	13 Jun	938 1 (441 96) 93290...			FN	WED
12162/11566/10711	1600/20/40z	04 Jun	546 1 (4048 83) 95998...			FN/RNGB	MON
	1600/20/40z	11 Jun	546 1 (1161 71) 31442...			FN	MON
13873/13373/---	1310/30/50z	02 Jun	834 000			FN	SAT
	1310/30/50z	09 Jun	834 000			FN	SAT
	1310/30/50z	16 Jun	834 000			FN	SAT
14524/13524/11524	1300/24/40z	04 Jun	555 1 (695 83) 46459 49532... ..43681 (Late start on 2nd sending)			FN/RNGB	MON
	1300/20/40z	11 Jun	555 1 (723 99) 13988...			FN	MON
14964/13972/12164	1500/20/40z	06 Jun	555 1 (695 83) 46459... (rpt. of 04 Jun. 1300z)			FN	WED
	1500/20/40z	13 Jun	555 1 (723 99) 13988... (rpt of 11 Jun. 1300z)			FN	WED
16269/14669/...	2110/30/50z	06 Jun	263 1 (115 75) 19135... (12369? missed sked)			FN	WED
	2110/30/50z	13 Jun	263 000			FN	WED

**M12a** (two message variant)

No reports

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

5938	1920z	09 May	417 (563 15) =	36475 37898 64753 09725.....17532		RNGB	WED
6856	1820z	08 May	163 (132 15) =	21543...		HFD	TUE
6856	1820z	12 Jun	163 (R4)	No message sent - Carrier on until 1830z		GD	TUE
9085	0700z	08 May	576 00000			RNGB	TUE

**M14a** (two message variant)

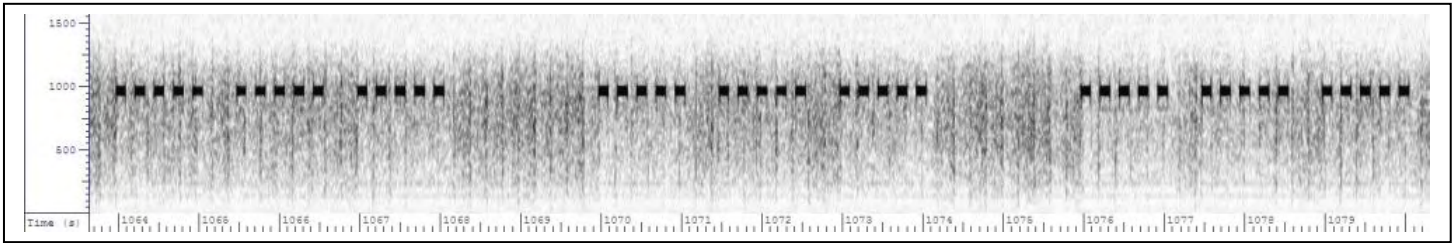
No reports



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

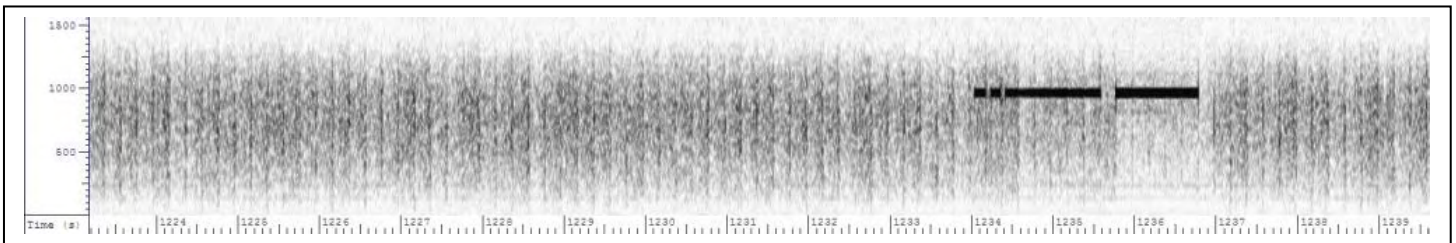
4503	1922z	10 May	2328 2328 2328 ...	FN	THU
4503	1930z	05 Jun	2330 2330 2330 ...	FN	TUE

**M23** O ICW



Spectrogram of M23 [7437kHz 0654z 28/06 representative of signals received [555 (R ~16m)]]

5438kHz	0701z	28/06[555]	Fair, started at 0701, ends 0716z	DoK, PLdn	THU
5440 // 7437	0701 - 0716z (IP)	26 Jun	555 No message	RNGB	TUE
7437	1500 - 1517z	27 Jun	555 No Msg Readability 4 Sig Strength 2/4 wid QRN & QSB (16m34s)	DoK	WED



Spectrogram of M23 tones 2m30s after close [see log below, 7436kHz 0654z 28/06]

7436kHz	0654z	28/06[555]	weak until 0701z then Very strong [Tx left in tune up mode] End 0716z Tones 2m30s after end..	DoK, PLdn	THU
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**M24** IA MCW / ICW / MCWCC (high speed version of M14), short 0

Thu 17 May saw M24 experiencing problems on 10755kHz. RNGB reports the station was sending the ID 975 continuously from when the freq was first monitored at 0728z . At 0837z an attempt was made to sent a msg;

10755	0837z	17 May	975 (681 53) = 49441 29685 90860 30841 97762.. Etc	RNGB	THU
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*By 0840z the sending had failed and M24 was back to sending continuous 975 before finally sending; 80136 = 681 53 00000*

RNGB wonders if the complete msg was sent on the sister frequency of 9073kHz, or if a further attempt may be made to send the full msg.

10423/8167	1642/1712z	14 May	058 00000	RNGB	MON
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10438/8182*	1640/1710z	21 May	058 (237 114) = 59296 19178 39296.... LG 43653 <i>*Both 15kHz up from last Monday's frequencies.</i>	RNGB	MON
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13389/10463	1235/1305z	23 May	058 (237 114) = 59296 19178 39296 etc,... LG 43654	RNGB	WED
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9073	1830z	09 Jun	636 (125 83) = 43697...	FN	SAT
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**M24a** as M24 with 2<sup>nd</sup> addressee hand keyed, rarely intercepted.  
No reports

**M45/3** XIV (Sept/Oct) MCW, slow, hand, paired grps Will change to M45/2 sched ID 555 at 1802z for Sept - Oct.

5074//5474	1702z	01 May	'074' (724 33) 74584...	HFD	TUE
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5074	1702 -1720z	29 May	'074' (724 33) ... (GlobalTuners Berlin)	JPL	TUE
------	-------------	--------	--	-----	-----

074 (R4) (1702z) 724 724 33 33 BT BT (1706z)

..... (Very poor copy – found a better tuner so missed the beginning of the msg)

... 55727 68695 11595  
52285 3 .541 34003 01409 03824  
27446 64916 28864 21181 78089  
52617 04925 34375 BT BT  
724 724 33 33 0 0 0 (1720z) *Courtesy JPL*

**M50** XIV MCW  
No reports

**M51**

4955kHz	0137z	02/05 [NR 43 M 02 03:37:20 1984 BT AQOKD ... MIPZW BT]	0143z Fair QRN2 QSB2	Spectre	WED
	0143z	02/05 [NR 44 M 02 03:43:33 1984 BT WKTSG ... PNNEB BT]	0149z Fair QRN2 QSB2	Spectre	WED
	0149z	02/05 [NR 45 M 02 03:49:43 1984 BT ENKTI ... NBLIL BT]	0155z Fair QRN2 QSB2	Spectre	WED
	0155z	02/05 [NR 46 M 02 03:55:56 1984 BT XBVEF ... GGHMT BT]	0201z Fair QRN2 QSB2	Spectre	WED
	0201z	02/05 [NR 47 M 02 04:01:59 1984 BT QBQFN ... HXJLE BT]	0207z Fair QRN2 QSB2	Spectre	WED
	0207z	02/05 [NR 48 M 02 04:07:04 1984 BT VDCON ... OEWKQ BT]	0214z Fair QRN2 QSB2	Spectre	WED
	0214z	02/05 [NR 49 M 02 04:14:15 1984 BT PTAPN ... RAVWT BT]	0220z Fair QRN2 QSB2	Spectre	WED
	0220z	02/05 [NR 50 M 02 04:20:33 1984 BT WXYWM ... ZDCIQ BT]	0226z Fair QRN2 QSB2	Spectre	WED
	0226z	02/05 [NR 51 M 02 04:26:53 1984 BT VDAMY ... TAMJO BT]	0233z Fair QRN2 QSB2	Spectre	WED
	0233z	02/05 [NR 52 M 02 04:33:09 1984 BT MNUEQ ... EVCXP BT]	0239z Fair QRN2 QSB2	Spectre	WED
	0239z	02/05 [NR 53 M 02 04:39:23 1984 BT RQLST ... WHMZS BT]	0245z Fair QRN2 QSB2	Spectre	WED
	0245z	02/05 [NR 54 M 02 04:45:36 1984 BT VZWHO ... NCMTJ BT]	0251z Fair QRN2 QSB2	Spectre	WED
	0251z	02/05 [NR 55 M 02 04:51:49 1984 BT XHSEA ... ACCDA BT]	0257z Fair QRN2 QSB2	Spectre	WED
	0257z	02/05 [NR 56 M 02 04:57:58 1984 BT YWKAE ... ZBNSV BT]	0304z Fair QRN2 QSB2	Spectre	WED
	0304z	02/05 [NR 57 M 02 05:04:10 1984 BT TIQVQ ... SWHXS BT]	0310z Fair QRN2 QSB2	Spectre	WED
	0310z	02/05 [NR 58 M 02 05:10:19 1984 BT HMEBK ... AHAAE BT]	0316z Fair QRN2 QSB3	Spectre	WED
	0316z	02/05 [NR 59 M 02 05:16:27 1984 BT ZNTVX ... TAOTG BT]	0322z Fair QRN2 QSB3	Spectre	WED
	0322z	02/05 [NR 60 M 02 05:22:53 1984 BT MEXHE ... KEDZS BT]	0329z Fair QRN2 QSB3	Spectre	WED
	0329z	02/05 [NR 61 M 02 05:29:05 1984 BT OBIMW ... OGHCP BT]	0335z Fair QRN2 QSB3	Spectre	WED
	0335z	02/05 [NR 62 M 02 05:35:14 1984 BT WGGJA ... AOHKM BT]	0341z Fair QRN2 QSB3	Spectre	WED
	0341z	02/05 [NR 63 M 02 05:41:27 1984 BT ZUDVM ... HUNEA BT]	0347z Fair QRN2 QSB3	Spectre	WED
	0347z	02/05 [NR 64 M 02 05:47:44 1984 BT LQPHZ ... ADUWN BT]	0353z Fair QRN2 QSB3	Spectre	WED
	0353z	02/05 [NR 65 M 02 05:53:58 1984 BT XGRQI ... NMHWX BT]	0400z Fair QRN2 QSB3	Spectre	WED
	0400z	02/05 [NR 66 M 02 06:00:02 1984 BT ZMMNI ... BKWQN BT]	0406z Fair QRN2 QSB3	Spectre	WED
	0406z	02/05 [NR 67 M 02 06:06:13 1984 BT MGXAE ... JZTOR BT]	0412z Fair QRN2 QSB3	Spectre	WED
	0412z	02/05 [NR 68 M 02 06:12:23 1984 BT ZVIEV ... ZESBU BT]	0418z Fair QRN2 QSB3	Spectre	WED
	0418z	02/05 [NR 69 M 02 06:18:49 1984 BT CURWE ... QXQKU BT]	0424z Fair QRN2 QSB3	Spectre	WED
	0424z	02/05 [NR 70 M 02 06:24:52 1984 BT ZRTMY ... IRSEN BT]	0431z Fair QRN2 QSB3	Spectre	WED
	0431z	02/05 [NR 71 M 02 06:31:07 1984 BT AMTUV ... FFTFT BT]	0437z Fair QRN2 QSB3	Spectre	WED
	0437z	02/05 [NR 72 M 02 06:37:19 1984 BT ZHGHM ... GMCWS BT]	0443z Fair QRN2 QSB3	Spectre	WED
	0443z	02/05 [NR 73 M 02 06:43:33 1984 BT HPMVA ... CSKIX BT]	0450z Fair QRN2 QSB3	Spectre	WED
	0450z	02/05 [NR 74 M 02 06:50:37 1984 BT WBDZB ... HPUSC BT]	0455z Fair QRN2 QSB3	Spectre	WED
	0455z	02/05 [NR 75 M 02 06:55:41 1984 BT WMSMI ... IBTIB BT]	0501z Fair QRN3 QSB4	Spectre	WED
	0501z	02/05 [NR 76 M 02 07:01:54 1984 BT DQXUI ... ECNKT BT]	0508z Fair QRN3 QSB4	Spectre	WED
	0508z	02/05 [NR 77 M 02 07:08:14 1984 BT NXPED ... QTPYW BT]	0514z Fair QRN3 QSB4	Spectre	WED
	2337z	03/05 [NR 64 M 03 01:37:44 1984 BT WXDKC ... JFMRY BT]	2344z Fair QRN3 QSB3	Spectre	THU
	2344z	03/05 [NR 65 M 03 01:44:02 1984 BT ELSEM ... MJYTQ BT]	2350z Fair QRN3 QSB3	Spectre	THU
	2350z	03/05 [NR 66 M 03 01:50:11 1984 BT MJYTQ ... NZNEM BT]	2356z Fair QRN3 QSB3	Spectre	THU
	2356z	03/05 [NR 67 M 03 01:56:17 1984 BT QOIOT ... ARFMB BT]	0002z Fair QRN3 QSB3	Spectre	THU
	0002z	03/05 [NR 68 M 03 02:02:39 1984 BT PGRBN ... UAMMB BT]	0008z Fair QRN3 QSB3	Spectre	THU
	0008z	03/05 [NR 69 M 03 02:08:48 1984 BT CJSIG ... KAFZC BT]	0014z Fair QRN3 QSB3	Spectre	THU
	0014z	03/05 [NR 70 M 03 02:14:58 1984 BT WNUWM ... EYCUE BT]	0021z Fair QRN3 QSB3	Spectre	THU
	0021z	03/05 [NR 71 M 03 02:21:01 1984 BT TJVCU ... ILHXN BT]	0027z Fair QRN3 QSB3	Spectre	THU
	0027z	03/05 [NR 72 M 03 02:27:27 1984 BT NBSPW ... ERZUO BT]	0033z Fair QRN3 QSB3	Spectre	THU
5890	2135z	11 May	[dyrgt = Nr 02 07 23:37 1984; at 2143z pwzbx = Nr 03 07 23:52 1984]	PLdn	FRI
	2200z (IP) - 2345z	11 May	Consecutive msgs - 5 letter grps. Strong. (Still in progress at 2345z).	BR	FRI

**M55** O  
No reports

**M62** O  
No reports

**M76** O  
No reports

**M87** O  
No reports

JPL has managed to intercept a number of operator chat exchanges in May on some of the M89 frequencies, most of which are included in the main log. This high level of chat, JPL believes, is due to an exercise taking place. He has noted similar activity during another exercise that took place in Oct 2011.

The one below is an exchange between two stations chatting on 8790kHz - not a regular M89 frequency;

8790kHz 0127 - 0138z 05 May (In chat and msg) (GlobalTuners Hong Kong) JPL SAT

While checking on GNXG on 8789 heard very strong signal nearby. Heard 2 different stations **on same freq** chatting. Same format as M89.

R R QSL 0935 QSL 0935 R K  
RR GA GA  
RR VV VV MSG NR 013 CK 9555 0505 0930 RMKS 6338 TO 3538 R K  
GA GA  
RR BT BT  
DA7U 3TNN BU54 A43T N6D5 ... AR K  
R RPT 0945 QSL 0945 K  
NR  
NR ?  
NR NR 043 NR 043 R K  
GB  
(0140z) GB

In addition, JPL has found a previously unknown M89 channel, using the call **8UPT DE SAY7**. There have been many operator chat exchanges noted on this frequency, much of which is included with the logs below;

6837//NRH 1636 - 1703z 14 May 12 (In chat/tfc - see below) (GlobalTuners Hong Kong) JPL MON

Chat was noted on this freq a few days ago. While checking on the NYZ sked, I noticed a weak station chatting on 6840 which quickly disappeared when NYZ started its 5 minute sked. After the NYZ sked I search up and down from 6840 and found a station chatting on 6837 using a similar format as M89.

(In chat - 1636z) 7G NR 1671/CCK CK 8051 0515 0000 RMKS CQ K BT  
MSG NR 1671/CCK CK 8051 0515 0000 RMKS CQ BT BT BT  
TN63 4D5U A753 ... (Cont'd) AR (1642Z)  
VVV VVV 3NLA K V NA5L ? VV H. R R QSA ? K (1644z)  
RPT VV 3ELWA VV NR ? ? K ... 0050 K (1647z)  
VVV Z9SB K QSL 0050 K VVV X28 K VV X.18 K VV XF18 K  
V QSL 0050 K VV ... K VV .31Z K ...5 NIL 0050 K (1649Z)(Silent)  
SK SK (1652Z)  
(Monitored until 1707z)

1638 - 1648z 16 May (In tfc cut number - mostly U/R - silent at 1645z) (GT Hong Kong) JPL WED  
1600 - 1617z 17 May 8UPT DE SAY7 (In Chat) (GT Hong Kong) JPL THU

**\*8UPT DE SAY7\* (Finally confirmed call signs of station on this freq!)**

VV 3NLA K VV 3NLA K VV 3NLA K VV AX6I K DE R QSA 2 K (1602z)  
NR C BT 76MO AR K NA HR/GMS012 K NWA  
HR NR GMS012 K NE R R AS VV X9SB K VV X9SB K VV X... K VV XF18 K  
UV G3JZ K UV H VV G3JZ K VV G3JZ K  
VV VV BOZ NR .3 K VV BEZX QSY TO NR 03 K  
(1607z - Silent) Monitored until 1624z)

(Appears to be a control station working out stations on another freq)

2005 - 2017z 17 May 8UPT(x3) DE SAY7 (x2) (To Chat) (GT Hong Kong) JPL THU

\*V 8UPT (X3) DE SAY7 (X2) (Cont'd)\* (2005z)

VV VVV 3NLA K VV 3NLA K (2006z)  
VV AX6I K DE R R QSA 2 K R R I C BT 76MO AR K  
NR U NR ? R R AS AS VV X9SB K  
XF M3UYA (This was sent by another station that came up on freq)  
VV X9SB K VV XF18 K DE R R QSA 2 K (2009z)  
NR I C BT 76MO K NR UNR ? K NR AS AS  
VV G3JZ K VV G3JZ K VV G3JZ K VV 3NLA K  
VV ALL ALL QS EEEE VV ALL ALL QSY TO NR 03  
VV ALL QSY TO NR 03 (2011z) VV ALL QSY TO NR 03 K PHR  
(Silent 2012z – Monitored until 2017z)

(Working the same stations as at 1600z - 3NLA / AX6I / X9SB / XF18 / G3JZ)

2206 - 2212z 17 May (In Tfc) (GT Hong Kong) JPL THU

1936 K K 8068 0518 0550 BT RMKS 312... K BT BT BT  
U36D N3AT D4T4 IMI D4T3 3DU6 3TNA ... (Cont'd - fading out)

1205 - 1319z 18 May V 8UPT DE SAY7 (GT Hong Kong) JPL FRI

V 8UPT (X3) DE SAY7 (x2) (Cont) (1205z) (Sends SAY7 then HAY7, so not sure which one is correct)

(1208z) VV 3NLA K NR QSA 2 I C BT 76MO R K NR U NR ? R R U NR ? K U NR ? K U NR ? U NR ?  
R R AS AS VV AX6I K NR QSA 2 I E C BT 76MO AR K R R U NR ? BAS  
VV X9SB K DE DE DE NR T QSA 2 K R R IEC BT 76MO AR K R R U NR ? K R R AS AS  
VV XF18 K DE R R QA EEE QSA 2 K R R IEC BT BT 76MO AR K R R U NR ? K R PT K R R AS AS  
VV G3JZ K DE R R QSA 2 K R R IEC BT 76MO AR K R R U NR ? K (1215z) NR AS AS  
VV HR CQ F GA HR U TEEEEE CQ FGA FFNR 1983/EX 2016 RM KS CQ BT BT EWR/158 AR  
FF NR 1983/EX 20EEEEE FF NR 1983/EX 2016 RMKS BR NAEWR/158 AR EDFF NR 1983/2 EEEE  
FF NR 1983/EX 2016 RMKS ICQ BT BT EWR/158 AR AR VV 3NLA K RR AS AS  
VVAX6I K VV AX6I K R R AS AS VV X9SB K R R B AS  
V XHZ K DE R R QSL .. K NR AS AS VV G3JZ K DE NR QS. ? K R R QSA 2 O18 K NR AS AS  
HR CQ F GA FF VV HR CQ GA FF NA 1984/EX 2021 RMKS CQ BT NAHDT/. AR  
FF NR 1984/EX 2011 RMKS BT BT HDT/F AR  
FF NR 1984/EX 2021 RMKS CQ BT BT HDT/F AR AR (2023Z) VV 3NLA K NR AS AS  
VV AX6I EEE VV AX6I K VV AX6I K VV AX6I K VV ... QSL 203 EEEE

		AX6I U QSK QSL 2023 K DE QSL 2024 K U R R . QSL 2024 K AS (1227z) NR AS AS VV X9SB K AS AS VV XF18 K DE R QSL ? K R R AS AS VV G3JZ K R R AS AS VV HR CQ 7G GA HR CQ MSG GA MSG NR 1985/CCK CK 80 51 T51 8 2000 RMKS CQ MSG NR 1985/CCK CK 80 51 051 8 2000 RMKS CQ BT BT 7A63 DDE53 63DU A376 63D 5 3U67 ET367.. (Cont'd) Rpt 7G BT BT BT 7A63 D653 .36 .... (1232z) AS (2035z) VV 3NLA K NR NR DE VV AX6I K R R QSL ? K RPT K NR A. 50W BT BT T33A EEEEE R. RPT 50W BT T337 AR BT . 337 AR K R R AS AS VV X9SB K R R AS AS VV XF18 K VV XF18 K DE R R QSL ? K R R R AS AS VV G3JZ K DE NR QSL ? K NR 5 AS VV HR CQ MSG GA AS (1242z) HR VV HR CQ MSG GA MSG NR 1986/CCK CK 80 51 0518 2000 RMKS CQ MSG NR 1986/CCK CK 80 51 0518 2000 RMKS CQ BT BT .45 7NU5 3A7AQ 75T4 N5TU T5N3 ...(Cont'd) (1245z) U73n a5td n74U NUDA 6DU5 D74A U36D 35DN 67AU 6D.U N4 DA T5UN DA65 AR AR VV 3NLA K (1249Z) NR AS VV AX6I K R R AS AS VV X9SB K R R .H AS AS VV XF18 K DE R R QSL ? K R R AS AS VV G3JZ K DE R R QS. ? K NR R HA EEE ALL HR Q..7.11 HR NR G7011 ALL AH ALL AS AS (1252z) VV ALL HKGB ALL SKGB (1300z) .Z.K VV ... K QS. TO NR 03.. ONR . LSR (Fading) UQSY TO NR.. K ..JZ K VV 31ZJ K DE QSL EEE QSA 2 K NR C BT BT .6 MO AR K NR CK BT BT SWXS.. K R TR R HR NR G7011 K NR HR MSG GA K R AS (1305z) MSG NR .987 CK 80 68 0518 2200 RMKS 3128 8240 TO 3.. ..0 K BT BT N7.. 47DA 5D3. 73N...(Cont'd) (1306z) (Silent 1310z) QSL 21.. K (1316z) QSL ..O115 K NR 1..Z8 CK 80 ..5101 210 BT RMKS 312 .40 3128 820 K AS (1317z) BT BT BT .. (Into 4 fig tfc – fading badly now) (1319z)		
1201 - 1212z	19 May	V 8UPT DE SAY7 (GT Hong Kong)	JPL	SAT
		*V 8UPT (x3) DE SAY7* (x2) (Cont'd) (Sent SAY7 both times today...)		
	(1201z)	VV 3NLA K K QSA 2 K IEC BT 76MO AR K TAE UNR ? K NR ? K K UNR ? K SR. G.012 K NR AS VV AX6I K NR QSA 2 EE C BT 76MO AR K TR S. N G7012 K NR AS AS VV X9SB K NR QSA 2 K ..IEC BT 76MO AR K NR HR NR G7012 K RPT UNR G.05 EEE UNR G7041 K R R AS AS VV XF18 K K VV XF18 K NR QSA 2 K R R IEC BT 76MO AR K NR EIC BR 76MO AR K NR HR NR GM012 K NR AS AS VV G3JZ K K DE NR IEC BT 76MO AR K R R HR NR G7012 K (Lost audio on GlobalTuners...) (1212z)		
1200 - 1213z	21 May	V 8UPT DE SAY7 (GT Hong Kong)	JPL	MON
		V 8UPT (x3) DE SAY7 (x2) (1200z) (Cont'd) (Monitored yesterday, but N/H)		
	(1205z)	VV 3NLA K R R QS.. R R IEC BT BT 76MO AR K ..R ? R R U NR ? K K UNR ? K .. AS VV AX6I K (1208Z) NR R QSA 2 IEC BT 76MO AR K NR AS AS X9SB K NR AS AS VV XF18 K AS AS G3JZ K R AS AS VV A S BT UT EEEE VV N.O EEE VV LL QSY TO NR 04 A VV ALL QSY TO NR 04 ALL QSY TO NR 04 K.. (Silent – monitored until 1213z) (1211z)		
1201 - 1230z	22 May	V 8UPT DE SAY7 (GT Hong Kong)	JPL	TUE
		V 8UPT (x3) DE SAY7 (x2) (Cont'd) (1201z)		
	(1202z)	VV 3NLA K VV 3NLA K RR TT EE R R QSA 2 K K R BT 76MO AR K VV HR NR GMS01. K / AS AS VV AX6I K (1204Z) VV A6XI K VV A6XI K VV A6XI K VV AX6I K K NR QSA 2 K R R IEC BT 76MO AR K IEC BT 76MO AR K R R HR NR GMSOA12 K R R AS AS VV X9SB K (1207z) R R QSA 2 K R IEC BT 76MO AR K R R IEC NR G7M..12 K R R AS AS VV XF18 K VV XF18 K DE R R QSA 2 K NR IEC BT 76MO AR K NR HR NR N7012 K A GRG7052 K R NR G7052 K NR AS AS VV G3JZ K DE NR QSA 2 K ..IEC BT 76MO AR K NR HR NR N7012 K (1212z) NR AS AS VV NR 1223/. 20.2 ..MKS/Q BT D7U7 EEEE BT ..1/0 AR E NR 1223/EX 1 12 RMKS CQ BT THF1/0 AR F NR 1223/EX 2012 RMKS CQ BT TH51/2 K NR 1223/EX 2012 RMKS CQ BT THH1/0 AR NR 1223/EX 2012 RMKS CQ BT THHAT/0 AR VV 3NLA K (1216z) R R AS AS VV AX6I K R R AS AS VV X9SB K R R AS AS VV XF18 K NR AS AS VV G3JZ K R R AS AS (1218z) NR 1224/EX 2018..CQ BT EWR/D AR NR 1224/EX 2018 RMKS CQ BT EWR/D AR NR 1224/EX 2018 RMKS CQ BT EWR/D AR (1219z) VV 3NLA K RPT K RPT K VV 3NLA K R AS AS VV AX6I K R AS AS VV X9SB K R R AS AS VV XF18 K NR AS AS VV G3JZ K R AS AS VV MSG NR 1.25/CCK CK 80 51 05.2 .000 RMKS CQ MSG NR 1225/CCK CK 80 51 0522 2000 RMKS CQ BT BT A.56 AN... (Into 4 fig cut number cipher message – 1225z) AR (1219z) VV 3NLA K RPT VV 3NLA K (1230z - Still IP)		
1203 - 1221z	23 May	(In Chat - probably SAY7) (GT Hong Kong)	JPL	WED
	(In chat - 1201z)	HR NR G7013 K VV AX6I K QSA 2 C BT BYJR AR K HR NR G7013 K NAS VV X9SB K VV X9SB K VV XF18 K R QSA 2 K R HR BT HYJU AR K NHR NR G7013 K NAS VV G3JZ K QSA 2 R ISC BT HYJU AR K N HR IR G7013 K NAS VV X9SB K N QSA 2 K R ICE BT HYJU AR K R SR NR G7013 K (1209z) N AS HR GA NR 1319/EX 2009 RMKS CQ BT RGR/UY AR NR 1319/EX 2009 RMKS CQ BT RGR/UY AR NR 1319/EX 2009 RMKS CQ BT RGR/UY AR VV 3NLA K N AS VV AX6I K N AS VV X9SB K N AS VV XF18 K N QSL ? R VV G3JZ K TGN N B HR GA NR 1320/EX 2013 RMKS CQ BT K K H G / C L U NR 1320/EX 2013 RMKS CQ BT KKHG/J AR NR 1320/EX 2013 RMKS CQ BT KKHG/J AR (1215z) VV 3NLA K N AS VV AX6I K N AS VV X9SB K R AS VV XF18 K R QSL ? N AS VV G3JZ K QSL ? N B HR MSG GA 7G NR 1321/CCK CK 80 5105 23 2000 RMKS CQ 7G NR 1321/CCK CK 80 5105 23 2000 RMKS CQ BT BT BT N6UA 6DA4 DN34 6ANU (Cont'd) (1221z) (Unable to monitor further) (1221z - Still IP)		
1200 - 1250z	24 May	V 8UPT DE SAY7 (GT Hong Kong)	JPL	THU
		V 8UPT (x3) DE SAY7 (x2) K (Cont'd) (Poor signal today)		
	(1230z)	VV 3NLA K ..... R ? K AS AS VV AX6I K NR QSA 2 IEC BT 76MO AR K ..NR ? K VV X9SB K ..QSA .2 K ..C BT 76MO AR K VV XF18 K / AS AS . VV XF18 K N QSA 2 IEC BT 76MO AR K RNR UNR ? K R AS AS VV G3JZ K DE NR QSA 2 EE QSA 2 .. IEC B T 76MO AR K R UNR ? K NR AS AS ALL HR NR G7011 VV R NR G7011 .AS AS (1209z) VV HR CQ GA VV HR CQ NR 1415/EX 2008 RMKS CQ BT BT HGY/TY AR NR 1415/EX 2008 RMKS CQ BT BT H .Y/TY AR NR 4115/EX 2008 RMKS CQ BT BT HGY/TY AR VV 3 NR AK VV 3NLA K NR AS AS VV AX6I K NR AS AS VV X9SB K NR AS AS VV XF18 K NR AS AS VV G3JZ K NR QSL ? K AS AS (1212z) ..R CQ F.HR ST CQ NR 1416/EX 2012 RMKS CQ BT BT TR/H AR NR 1416/EX 2012 RMKS CQ BT BT TR/YH AR NR 1416/EX 2012 RMKS CQ BT BT TR/YH AR K VV 3NLA K VV 3NLA K NR AS AS VV AX6I K NR AS AS VV X9SB K NR AS AS VV XF18 K NR AS AS VV G3JZ K NR QSL ? K NR AS AS VV .RCQ MSG GA VV HR R MSG NR 1..7/CCK CK 80 .05 4 20 RMKS CQ MSG NR 1.17/CCK CK 80 5..000 RMKS CQ BT BT BT (Into 4 fig cut number tfc) (1220z) AR (1224z) AS AS (1225z) VV 3NLA K VV ..... RPT VV PTRPT QSA ? K VV 3NLA K RM AL K VV AX6I K NR RPTS 50W BT T3DD AR BT ..DD AR K NR AS AS VV X9SB K NPT ..AS AS VV XF18 K NR AS VV G3JZ K DE NR QSL ? K R R AS AS (1229z) ..NLAK VV WNLA K . AS AS VV VV ALL UHB EEE VV ALL USB...ALL USB (1232z) (Switched to USB – Faint Chinese voice heard on freq) *(First time ever heard M89 switch to voice!)*(Voice silent at 1240z) (Checked to see if returned to CW, butN/H) (Monitored until 1250z) (1240z)		



1300 - 1305z	24 May	(In Chat - Probably SAY7) (GT Hong Kong)	JPL	THU
	(1300z)	VV G3JZ K VV BTEEE VV HOM QSY TO NR 03 VV BOZ QSY TO NR 03 .. K (1300z) (Silent - probably QSY to freq Nr 03) (Monitored until 1305z)		
1903 - 2116z	24 May	V 8UPT DE SAY7 (GT Hong Kong)	JPL	THU
	(1903z)	(In 4 fig cut number tfc) 3UAD 47U6 AD3U NUTD 57D3 ...T D6UN 5T.. D5AU D5TA 7DUN 6D4. AS AR (1906z) N GA N GA (1907z) N QSL 0310 K (1910z) N APHB APHB (1911z) (Silent) VV 8UPT (x3) DE SAY7(x2) (Cont'd) (2002z) VV 3NLA K (2003z) N R QSA 2 K R R IEC BT 76MO AR K R R HR NR G7..12 K R R AS AS VV AX6I K R R QSA 2 K .IC BT 7BMO AR K N R HR NR G7201 K R R AS AS VV X9SB K R R QSA 2 K R R HR NN BT 76MO AR K NR HR NR G7012 K R R AS AS VV XF18 K R U IEC BT 76MO AR K R R HR .G7012 K R N AS AS VV G3JZ K VV G3JZ K DE R QSA 2 K (2009z) R R EEE IEC BT 76MO AR K R R HR NR G7012 K NR AS AS VV LNR 1447/EX 0410 RMKS CQ BT RUY/I AR LNR 1447/EX 0410 RMKS CQ BT RUY/I AR LNR 1447/EX 0410 RMKS CQ BT RUY/I AR (2012z) VV 3NLA K R R QSL ? K NR AS AS VV AX6I K VV AX6I K VV AX6I K VV AX6I K VV AX6I K DE R R QSL ? K R R UINR UEE NR 1447/EX 0410 RMKS CQ BT TREEEE BT RUY/I AR K (2015z) NR AS AS VV X9SB K .QSL .EEE QSL ? K NR AS AS VV XF18 K R R R QSL EEE QSL ? K R R AS AS VV G3JZ K RPT NR AS AS VV VV VV NR 1448/EX 0418 RMKS CQ BT HKU/3T AR NR 1448/EX 0418 RMKS CQ BT HKU/3T AR NR 1448/EX 0418 RMKS CQ BT HKU/3T AR VV 3NLA K (2019z) QSL ? K NR AS AS VV AX6I K R R AS AS VVV X9SB K R R AS AS VV XF18 K R R QSL ? K R R AS AS VV G3JZ K DE R QSL ? K N R AS AS (2022z) VV VV MSG NR 1449/CKK CK 80 51 0525 0400 RMKS CQ MSG NR 1449/CKK CK 80 51 0525 0400 RMKS CQ BT 65A4 TUN7 D53N TA.... (Into 4 fig cut number tfc) AR (2028z) VV VV 3NLA K NPT R R QSL ? K RR AS AS VV AX6I K NR AS VV X9SB K DE R R QSL ? K N R AS AS VV XF18 K R R QSL ? K RPT NR 50W BT TA6A AR BT TA6A AR K (2031z) NR AS AS VV G3JZ K DE R R QSL ? K N R AS AS VV VV UPSB VVV UPSB K VV UPSB(2033z) (Gone to USB/Voice again) (Went silent at 2040Z) (2102z) VVV 3NLA K (2101Z) RR QSA EEEE QSA 2 K VVV X... QSY TO NR 03 K BOZ QSY TO NR 03 K (2102z) (Monitored until 2116z)		
1159 - 1328z	25 May	V 8UPT DE SAY7 (GT Hong Kong)	JPL	FRI
		V 8UPT (x3) DE SAY7 (x2) K (Cont'd)		
	(1202z)	VV 3NLA K (Signal distorted) AS AS VV R QSA 2 K VV ... CN .. HR NR ... ..BT 76MO AR K (1206z) R HR NR GM..2 K AS AS VV XA EEE VV XF18 K R R QSA 2 K R R IEC BT 76MO AR K R R HR/G.012 K R AS AS VV G3JZ K (1209z) DE N R QSA 2 K XE.. IEC BT 76MO AR K NR HR NR G7012 K NR AS AS UVV / NR 1511/EX 2010 RMKS CQ BT RTR/3T AR NR 1511/EX 2010 RMKS CQ BT RTR/3T AR NR 1511/EX LN.H1./EX 2010 RMKS CQ BT RTR/3T AR (1211z) VV 3NLA K R R QSL ? K R R AS AS VV AX6I K R R AS AS VV X9SB K R R AS AS VV XF18 K R QSL ? K R R AS AS VV G3JZ K R R AS AS (1214z) VV VV FNR 1512/EX 2015 RMKS CQ BT YT3/IU AR NR 1512/EX 2015 RMKS CQ BT YT3/IU AR NR 1512/EX 2015 RMKS CQ BT YT3/IU AR (1216z) VV 3NLA K N QSL ? K R AS AS VV AX6I K R AS AS VV X9SB K NR AS AS VV XF18 K R QSL ? K R R AS AS VV G3JZ K VV G3JZ K R R AS AS (1219z) VV VV MSG NR 1513/CKK CK 80 51 0525 2000 RMKS CQ MSG NR 1513/CKK CK 80 51 0525 20000 RMKS CQ BT BT BT TN6. 4D5U A753 3N7D DT7A DNAT U63N 56A4 5TAU T7DU 5D7U 7A3T N6D5 A736 T53D 46N5 5N4D DN7A 5NU6 634U 563D 5UTN NUT3 6D4T U75T 4DAN U365 D4N7 DUNA 4A73 67D3 5.N7 3.4A U67D DAUN 5T43 ..U7 UNTA AUDN 4TU3 D7N4 34N6 DTU5 UAND .... 7DNA AUDT ..UA ..D4 TATU TD6A 4T35 3564 6345 7TDN ND76 5.3U 43UA .5.U NTD7 ... 457T D7IAN AT67 A43U TUD4 U3D7 6NTU 6U7N D3U5 643N A.U3 NU5D .36N NDU7 T3.D 34AA ..347 .4NA 673D AR (1224z) VV 3NLA K R R QSL ? K R R AS AS VV AX6I K R AS AS VV X9SB K R R AS AS VV XF18 K R R QSL ? K RPT R R AS AS VV G3JZ K NR AS AS (1227z) VV VV UP SB VV UPSB K VV UPSB K VV UPSB K (1228z) (Switched to USB Voice)(Silent 1234z) (1301z) VV G3JZ K (1300z) VV G3JZ K VV G3JZ K VV BOZ QSY TO NR 03 VV BOZ QSY TO NR 03 K (1301z Silent) (Monitored until 1328z)		
1559 - 1640z	25 May	V 8UPT DE SAY7 (GT Hong Kong)	JPL	FRI
		8UPT ... (1559z) (Silent) V 8UPT (x3) DE SAY7 (X2) (Cont'd – 1601z)		
		(Another station came up on freq – unable to copy as SAY7 is louder) (1602z)		
	(1605z)	VV 3NLA K R R QSA 2 K N EIC BT 76MO AR K NR .. ? K K EENR ? K K K K VV 3NLA K NR ? K NR AS AS VV AX6I K DE NR QSA 2 K BT RR EIC BT 76MO AR K UNR ? K R R R AS AS VV X9SB K R QSA4 EE QSA 2 K R NR ? K RR U NR ? K NR AS AS VV XF18 K (1610z) DE R R QSA 2 K IEC BT BT 7BMO K NR ? K RR AS AS VV G3JZ K DE NR R HR QSA 2 K NR IEC BT 76MO AR K NR UNR K NR AS AS VV HR NR G7011 VVV HR NR G7011 AS AS (1612z) VV HR CQ NEEE VV HR N.. GA VV HR. CQ NR 1527/EX 0013 RMKS CQ BT HHGU EE AR U DNR 1527/EX 0013 RMKS CQ BT HHGF/5 AR NR 1527/EX 0013 RMKS CQ BT HHGF/5 AR AR (1614z) VV 3NLA K NR AS AS VV AX6I K NR AS AS VV X9SB K R R VVV XF18 K QSL ? K NR AS AS VV G3JZ K DE QSL ? K R R AS AS VV HR CQ F GA VV HR CQ NR 1528/EX 001. L.. BT TUG. J/9 AR VV NR 1528/EX 0018 RMKS CQ BT NAGF1/9 RE AR NR 1528/EX 0018 RMKS CQ BT GFJ/9 NE AR AR VV 3NLA K (1619z) VV 3NLA K NR AS AS VV AX6I K R R AS AS VV X9SB K R R AS AS VV XF18 K VV XF18 K NR QSL ? K R AS AS VV G3JZ K NR AS AS VV HR CQ 7G.. (1623Z) VV HR CQ 7G NR 1529/CKK CK 80 51 0526 0000 RMKS CQ MSG NR 1529/CKK CK 80 51 0526 0000 RMKS CQ BT BT (Into 4 fig cut number tfc) ..... 54NT 46N7 375T 3U5T A3D6 DATN 6T5T T..D NU7D .43N D75A 57TD T6DN N3T4 5T4N T637 7A6U D74U 3AND AU37 5T3U AR AR (1627z) VV 3NLA K NR AS VV AX6I K VV AX6I K NR AS VV X9SB K R R AS VV XF18 K DE RR QSL ? K NR AS VV G3JZ K R R AS VV ALL UPSB VV ALL UPSB (1631z – To USB Voice) (1638z) (Appears to be sending 4 fig code tfc in voice and repeating each group twice) (Silent – 1638z) Monitored until 1640z)		
2152 - 2306z	25 May	(SAY7 working AX6I) (GT Hong Kong)	JPL	FRI
	(2152z)	VV AX6I (Believe station calling AX6I is SAY7) VV AX6I K VV AX6I K QSA 2 K R IEC BT HYJU AR K (2154z) HR NR G7013 K HR GA CK.. NR 1516/EX 0554 RMKS 1849 824 TO 1849 829 K BT BT HGJF/7V BT BT HGJF/7V AR K (2156z) N GA N GA (2158z) N QSL 055 EEEE QSL 0558 K (2158z) HR MSG GA MSG NR 1552 CK 80 68 0526 0550 NMKS 1849 8240 .849 829 K BT BT 33UA DNTA NT7D 5UNA 74DA 657D ANDU 4ANU D6U3 7.46 T347 U36A NT7D .3.. UTD3 65NA 35DA 7A4T 6N4D AU36 UN56 75AD 5TDN N3AT 36A7 3UDN 6DUT U736 N7U5 3DU6 D3A5 A.. N5AU 7.D5 65TA U7DN ..3T 7UNA 647U 673D UA57 DA6U 5T3N 4U3D 7TN6 U..N DN74 57NU NA7U TA7A 7DTN TD75 7.3T 5736 NA3D 3TUA 5467 4UTN 36T7 53N6 .TUTN ...H3 AD6U 43TN ..TU DAND UN3. 73NT 76DU T546 DAT3 7D46 75T3 TAU3 A7UT 74DU N3DA D5NA N3AU ATN5 AR (2203z) N GA R U MSG GA K N GA (2205z) N QSL 0609 K (2210z) HR MSG GA N MSG NR 1553 CK 80 68 0526 055 EEEEE MSG NR 1553 CK 80 68 0526 0550 NMKS 1849 8240 0184 9829 K BT BT 6547 736T 643N 37A4 NT6D TADU 73NT 5ADU 3450 TB.7 6D3N UD3T 4NA6 753T T5DA U34D 4NTD NAU5 6N5D A6DT N6.. 6543 67DU 57.. 3AU7 750. T.NU A735 35NA 3U76 T..D .... 6ND4 U65D 6453 3UA5 4ADU 73TN 543D U6DA 36UT 5D34 4367 5UD7 ADNT N5D4 65DN NT37 4NU3 TA6T 4N3U 5ND6 T5U3 3U75 36UN 3A46 DT53 4NAT 3UA6 65TD 64UD DN6A A3D6 6T5N T65D TD75 3N6T N563 7A6T N653 54D6 NT65 U635 ND6A D743 45D7 NADU 436T 5NTU 4A36 AR (2215z) K R GA (2216z) N GA N GA (2217z) N QSL 0621 K (2221z) HR MSG GA MSG NR 1554 CK 80 68 0526 0550 NMKS 1.49 8240 0184 9829 K BT BT 65A4 TUN7 D53N TAU5 TAD3 UT.. A6NU 6DAN U5TA A47U 5463 T6D5 T5D3 43AN 53NU 473T NTD5 ND5U T3A7 56NU 63DN AN7D 3565 T4UD 3NU5 5DNU TUD7 TA43 A4U5 TAD5 D5N3 D7N6 453D 54TD U75N 34UA D4AN 57AU 36AU 5N4U		

N3D4 45D6 64U7 7456 AN7D TA3N N3AT DNA5 4N73 TA6 EE64D 3... 7DU3 D63N T5N6 6D4N T3NA N63D 5D6A 5AUD 5643  
3N4D N36U D5TU U53A 46DT 35UN N34A A53N UD3T D3N6 56N7 43UA 367U D7NT 673D 7U6A 5DAT 46AD NADT AR (2226z)  
N GA (2227z) N GA K N GA K (2229z) R QSL 0633 K (2234z) SR MSG GA N  
MSG NR 208 CK 80 68 0526 0550 NMKS 1849 8240 01849 829 K R BT BT  
7D65 4T5A T6UA AUT4 6D3U 4657 7UTD A5UT TUDN 75DN 64UD 3UAT 4AUD 43TA DU.R 4... 567T 7DTA 7NDA T5D3  
(Lost sound on tuner momentarily) T3U7 D3N7 5A7U 5N7D D3U7 N6D5 AN3U 4A53 STN7 36A4  
UN36 UA5T 7D34 4A6T D5NT D763 TA34 6T74 6T3D 7NAD 7AU3 T6U3 4UD5 3A4U 5DNE3 5TD6 D.N6 376A D4AU A7TU  
UT4U ... 5346 TDU3 N5AD AU75 4D3U N3T7 356T 63UT 73AD T3AT 56N7 67DN T764 4NTU N47A AR K (2240z)  
N USB (Checked for voice, but N/H – Silent – 2240z) VV XF18 DE ... K (2243z)  
  
N XF18 DE SIL6 QSA 2 K (Not 100% sure with SIL6 callign – weaker than previous stn(SAY7)) R BT 76MO AR K  
NHR NR . K GMI024 K R 7G CY K NR 2986/EX 0654 NMKS . 84NDE 826 TO 0849 823 BT BT BT  
EFDC/20 AR NR 2986/EX 0644 NMRKS 1849 826 TO 1849 823 BT BT BT EFDC/20 AR K N GA (2246z)  
GA QSL AS QSL 0649 QSL 0649 K ..CY K 7G NR 2987 CK 80 68 0526 064 .... 1849 823 K BT  
(Into 4 fig cut number tfc – 2250z) AR K (2253z) GA K GA K (2254z) ...QSL 0659 K (2259z)  
(2259z) QSY QSY NR 18 QSY NR 18 (2259Z) (Silent)  
(Monitored until 2306z)

The regular M89 logs continue below:

## May 2012

GT = Global Tuners (Online remotely controlled receivers)

<u>3297//NRH</u>	1315 - 1316z	01 May	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
	1604 - 1605z	01 May	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
	1914 - 1915z	01 May	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
	2103 - 2104z	05 May	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
	1349 - 1350z	06 May	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1730 - 1731z	08 May	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
	2010 - 2011z	11 May	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
	1828 - 1829z	13 May	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1346 - 1347z	14 May	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	MON
	1449 - 1450z	14 May	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	MON
	1526 - 1527z	17 May	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	1944 - 1945z	17 May	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	1725 - 1726z	18 May	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
	1200 - 1201z	19 May	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
	1544 - 1545z	20 May	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1816 - 1817z	20 May	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	0953 - 0954z	21 May	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	MON
	1541 - 1542z	25 May	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
	1612 - 1613z	27 May	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1917 - 1918z	27 May	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1858 - 1859z	28 May	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	MON
	1616 - 1617z	29 May	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
	1751 - 1752z	30 May	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	WED
	1242 - 1243z	31 May	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	1349 - 1350z	31 May	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	THU
<u>3797//4512</u>	1317 - 1318z	01 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
	1608 - 1609z	01 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
	1916 - 1917z	01 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
	1252 - 1253z	03 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	1905 - 1905z	03 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	1352 - 1353z	06 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1732 - 1733z	08 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
	1411 - 1412z	10 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	1644 - 1645z	10 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	2012 - 2013z	11 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
	1349 - 1350z	14 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	MON
	1451 - 1452z	14 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	MON
	1613 - 1614z	14 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	MON
	1151 - 1152z	17 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	THU
(4512 only)	1530 - 1531z	17 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	THU
(4512 only)	1946 - 1947z	17 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	THU
(3797 only)	1907 - 1908z	18 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
	1618 - 1619z	27 May	V H2FL (x3) D E DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1912 - 1913z	27 May	V H2FL (x3) D E DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
(3797 only)	1428 - 1429z	29 May	V HF2L (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
(4512 only)	1353 - 1354z	31 May	V H2FL (x3) D E DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	THU
<u>4225//5500</u>	1217 - 1218z	01 May	V 7NPE (x3) DE QV5B (x2)(Cont'd) (GT Hong Kong) (In tfc)	JPL	TUE
	1313 - 1314z	01 May	V 7NPE (x3) DE QV5B (x2)(Cont'd) (GT Hong Kong) (In tfc)	JPL	TUE
	1602 - 1603z	01 May	V 7NPE (x3) DE QV5B (x2)(Cont'd) (GT Hong Kong) (In tfc)	JPL	TUE
	1912 - 1913z	01 May	V 7NPE (x3) DE QV5B (x2)(Cont'd) (GT Hong Kong) (In tfc)	JPL	TUE
	2207 - 2208z	01 May	V 7NPE (x3) DE QV5B (x2)(Cont'd) (GT Hong Kong) (In tfc)	JPL	TUE
	1206 - 1208z	03 May	V 7NPE (x3) DE QV5B (x2)(Cont'd) (GT Hong Kong) (In tfc)	JPL	THU
	1903 - 1904z	03 May	V 7NPE (x3) DE QV5B (x2)(Cont'd) (GT Hong Kong) (In tfc)	JPL	THU
	2234 - 2235z	03 May	V 7NPE (x3) DE QV5B (x2)(Cont'd) (GT Hong Kong) (In tfc)	JPL	THU
	1001 - 1002z	04 May	V 7NPE (x3) DE QV5B (x2)(Cont'd) (GT Hong Kong) (In tfc)	JPL	FRI
	1533 - 1534z	05 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
(5500 only)	1738 - 1739z	05 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
(5500 only)	1918 - 1919z	05 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
(5500 only)	2101 - 2102z	05 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
(5500 only)	1030 - 1031z	06 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
(5500 only)	1347 - 1348z	06 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1726 - 1727z	08 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
	1825 - 1826z	08 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	TUE

	2221 - 2222z	09 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	WED
	1017 - 1019z	10 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	1211 - 1212z	10 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	1407 - 1408z	10 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	1640 - 1641z	10 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	1825 - 1826z	10 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	2118 - 2119z	10 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Netherlands)	JPL	THU
	1117 - 1118z	11 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
	2008 - 2009z	11 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
	1038 - 1039z	13 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1210 - 1211z	13 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1631 - 1632z	13 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1826 - 1827z	13 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	2316 - 2317z	13 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1231 - 1232z	14 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	MON
	1344 - 1345z	14 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	MON
	1447 - 1448z	14 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	MON
	1609 - 1610z	14 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	MON
	1859 - 1900z	14 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	MON
	1020 - 1035z	15 May	V 7NPE (x3) DE QV5B (x2)(Cont'd) (GT Hong Kong) <b>(In tfc)</b>	JPL	TUE
	(In tfc 1020z)				
	1924/1000/G56/8731 AR TC9 MSG NR 05/CCK CK 2537 0515 1330 RMKS 8738 TO 1876/3538/8429/11../EEEE TCG 5 TO97G NR 05/CCK CK 2537 0515 1330 RMKS EEEE NR 05/CCK CK 2537 0515 1330 RMKS 8738 TO 1876/3538/8429/1196/1899/1694/1369/8698 AR TC9 MSG NR 05/CCK CK 2537 0515 1330 RMKS 8738 TO 1876/3538/EEEE TC9 MSG NR 05/CCK CK 2537 0515 1330 RMKS 8738 TO 1876/3538/8429/1196/1899/1694/1369/8698EEEE TC9 MSG NR 05/CCK CK 2537 0515 1330 RMKS 8738 TO 1876/3538/8429/1196/1899/1694/1369/8698 AR TC10 UGT COMM BT 1330 /U EEEE T31 0 UGT OMM BT 1330/PT545/Z93/8738 AR TC 10 UGT COMM BT1330/1545/Z93/8738 AR P AR AR				
	(To round slip 1026z)				
	2041 - 2042z	15 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
	2310 - 2311z	15 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
	1539 - 1540z	16 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	WED
	2038 - 2039z	16 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	WED
	1006 - 1007z	17 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	1111 - 1112z	17 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	1524 - 1525z	17 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	1942 - 1943z	17 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	1050 - 1051z	18 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
	1325 - 1326z	18 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
	1707 - 1708z	18 May	V 7NPE (x3) DE QV5 B (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
	1901 - 1902z	18 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
	2127 - 2128z	18 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
	1007 - 1008z	19 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
	1158 - 1159z	19 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
	2314 - 2315z	19 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
(5500 only)	1209 - 1210z	20 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
(5500 only)	1542 - 1543z	20 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1814 - 1815z	20 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	2204 - 2205z	20 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1826 - 1827z	21 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	MON
	2104 - 2105z	21 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	MON
	1010 - 1011z	22 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
	1446 - 1447z	22 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
	1931 - 1932z	22 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
	1045 - 1046z	24 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	<i>Note: Round slip being sent at twice the normal speed</i>				
	1126 - 1159z	24 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	<i>Note: Round slip back to normal speed</i>				
	1251 - 1252z	24 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	1903 - 1904z	24 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	1319 - 1320z	25 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
	1537 - 1540z	25 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
	2140 - 2141z	25 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
	2103 - 2104z	26 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
	0952 - 0953z	27 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1611 - 1612z	27 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1858 - 1907z	27 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) <b>(UGTCOMM msg at 1901z)</b>	JPL	SUN
(5500 only)	1056 - 1057z	28 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	MON
(4225 only)	2117 - 2118z	28 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	MON
	1133 - 1134z	29 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
	1427 - 1428z	29 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
	1617 - 1618z	29 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
	2117 - 2118z	29 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
	2316 - 2317z	29 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
(4225 only)	1025 - 1026z	30 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	WED
(4225 only)	1745 - 1746z	30 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	WED
(4225 only)	1945 - 1946z	30 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	WED
(4225 only)	2311 - 2312z	30 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	WED
(4225 only)	1826 - 1827z	31 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	THU

4474// NRH	1937z	10 May	V RXP7 RXP7 RXP7 de CZT2 CZT2 CZT2	FN	THU
	2109 - 2111z	10 May	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (GT Netherlands)	JPL	THU
	2204 - 2205z	11 May	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (GT Netherlands)	JPL	FRI
4590//7607	1227 - 1228z	01 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
	1319 - 1320z	01 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
	1610 - 1611z	01 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
	1918 - 1919z	01 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
	1254 - 1253z	03 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	1906 - 1907z	03 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	2241 - 2242z	03 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	1537 - 1538z	05 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
	1742 - 1743z	05 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
	1927 - 1938z	05 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
	2106 - 2119z	05 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
	1354 - 1408z	06 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1734 - 1735z	08 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
	1828 - 1842z	08 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
	1907z	08 May	V WITN WITN WITN de GNXXG GNXXG GXNG	FN	TUE
	2026 - 2027z	08 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
	2225 - 2226z	09 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	WED
(7607 only)	1217 - 1219z	10 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	1413 - 1419z	10 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	1646 - 1647z	10 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	THU
(7607 only)	1828 - 1829z	10 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	2114 - 2115z	10 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Netherlands)	JPL	THU
	1130 - 1131z	11 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
(7607 only)	2014 - 2019z	11 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
	2208 - 2209z	11 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Netherlands)	JPL	FRI
	1215 - 1219z	13 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1633 - 1635z	13 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1831 - 1835z	13 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1236 - 1237z	14 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	MON
	1351 - 1352z	14 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	MON
	1452 - 1453z	14 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	MON
	1615 - 1619z	14 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	MON
	1902 - 1903z	14 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	MON
	2053 - 2054z	15 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
(7607 only)	1543 - 1544z	16 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	WED
	2044 - 2045z	16 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	WED
	1149 - 1150z	17 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	THU
(7607 only)	1532 - 1533z	17 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	1948 - 1949z	17 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	1051 - 1052z	18 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
	1327 - 1328z	18 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
	1711 - 1712z	18 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
	1903 - 1904z	18 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
	2131 - 2132z	18 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
	1211 - 1212z	20 May	V WITN (x3) D E GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1548 - 1549z	20 May	V WITN (x3) D E GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1825 - 1826z	20 May	V WITN (x3) D E GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	2207 - 2208z	20 May	V WITN (x3) D E GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1831 - 1832z	21 May	V WITN (x3) D E GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	MON
	2108 - 2109z	21 May	V WITN (x3) D E GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	MON
	1320 - 1321z	25 May	V WITN (x3) D E GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
	1544 - 1545z	25 May	V WITN (x3) D E GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
(7607 only)	2146 - 2147z	25 May	V WITN (x3) D E GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
	2030z	26 May	V WITN WITN WITN de GNXXG GNXXG GNXXG	FN	SAT
	2106 - 2107z	26 May	V WITN (x3) D E GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
	1229 - 1230z	27 May	V WITN (x3) D E GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1616 - 1617z	27 May	V WITN (x3) D E GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1910 - 1911z	27 May	V WITN (x3) D E GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	2126 - 2127z	28 May	V WITN (x3) D E GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	MON
	1134 - 1135z	29 May	V WITN (x3) DE GNXXG (x2) ( Cont'd) (GT Hong Kong)	JPL	TUE
	1429 - 1430z	29 May	V WITN (x3) DE GNXXG (x2) ( Cont'd) (GT Hong Kong)	JPL	TUE
	1618 - 1619z	29 May	V WITN (x3) DE GNXXG (x2) ( Cont'd) (GT Hong Kong)	JPL	TUE
	2118 - 2119z	29 May	V WITN (x3) DE GNXXG (x2) ( Cont'd) (GT Hong Kong)	JPL	TUE
	1747 - 1748z	30 May	V WITN (x3) DE GNXXG (x2) ( Cont'd) (GT Hong Kong)	JPL	WED
(7607 only)	1947 - 1948z	30 May	V WITN (x3) DE GNXXG (x2) ( Cont'd) (GT Hong Kong)	JPL	WED
	2314 - 2315z	30 May	V WITN (x3) DE GNXXG (x2) ( Cont'd) (GT Hong Kong)	JPL	WED
	1246 - 1247z	31 May	V WITN (x3) D E GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	1355 - 1356z	31 May	V WITN (x3) D E GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	1828 - 1829z	31 May	V WITN (x3) D E GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	THU
4860// 6840	1320 - 1325z	01 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	TUE
	1620 - 1625z	01 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	TUE
	1920 - 1925z	01 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	TUE
	1920 - 1925z	03 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	THU
	1920 - 1925z	05 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	SAT
	2120 - 2125z	05 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	SAT
	1722 - 1725z (IP)	08 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (GT Hong Kong) (In progress)	JPL	TUE
	2222 - 2225z (IP)	09 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (GT Hong Kong) (In progress)	JPL	WED
	1819 - 1824z	10 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	THU



(6840 only)	2119 - 2124z	10 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Netherlands)	JPL	THU
	2020 - 2025z	11 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	FRI
	1620 - 1625z	14 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	MON
	2020 - 2025z	17 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	THU
	1320 - 1325z	18 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	FRI
	1719 - 1724z	18 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	FRI
	1919 - 1924z	18 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	FRI
	1619 - 1624z	20 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	SUN
	1820 - 1825z	20 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	SUN
	2220 - 2225z	20 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	SUN
	1819 - 1824z	21 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	MON
	1920 - 1925z	24 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	THU
	2120 - 2125z	24 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	THU
	2120 - 2125z	26 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	SAT
	1620 - 1625z	27 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	SUN
	1920 - 1925z	27 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	SUN
	2120 - 2125z	28 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	MON
	1420 - 1425z	29 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	TUE
	1620 - 1625z	29 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	TUE
	2120 - 2121z	29 May	VVV (x3) Q2M DE NYZ (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
<u>5230//NRH</u>	1606 - 1607z	01 May	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
	1914 - 1915z	01 May	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
	1728 - 1729z	08 May	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
	1611 - 1612z	14 May	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (GT Hong Kong)	JPL	MON
	2049 - 2050z	16 May	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (GT Netherlands)	JPL	WED
	1546 - 1547z	20 May	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1818 - 1819z	20 May	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	2106 - 2107z	21 May	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (GT Hong Kong)	JPL	MON
	1613 - 1614z	27 May	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1914 - 1915z	27 May	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1431 - 1432z	29 May	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
	1749 - 1750z	30 May	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (GT Hong Kong)	JPL	WED
<u>5230//3642</u>	2116 - 2117z	10 May	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (GT Netherlands)	JPL	THU
	2206 - 2207z	11 May	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (GT Netherlands)	JPL	FRI
	1830 - 1831z	13 May	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (GT Netherlands)	JPL	SUN
<u>5278//NRH</u>	1051 - 1052z	06 May	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1025 - 1026z	10 May	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	1214 - 1215z	10 May	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	1409 - 1410z	10 May	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	1642 - 1643z	10 May	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	1827 - 1828z	10 May	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	1040 - 1041z	13 May	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1037 - 1038z	15 May	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
	1201 - 1219z	15 May	(In chat) (Freq normally used by Q7NW) (GT Hong Kong)	JPL	TUE
	(In chat 1201z)				
	DE TY.. OT W DE WM7 *TYPT* TY V OQP8 DE TYPT V *8UGT* DE GT (1205z) DE HAY GGT 8U.. 8UGT DE VV 3NL K VVV TNLAK VV X. K EEEEEE ... NR G 3 LM II LL QSW TO NR 03 NR 05 ... (1211z) (Lost tuner to another user until 1215z for a few minutes) (Monitored until 1219z)				
	2043 - 2051z	15 May	(In chat) (Freq normally used by Q7NW) (GT Hong Kong)	JPL	TUE
	(2043z) R R R BT 6 EEEE R R QSL 0445 K (2047z) EEE R R VA GB (2048z) (Silent)				
	1112 - 1140z	17 May	(In 4 fig code - weak) (Probably Q7NW) (GT Hong Kong)	JPL	THU
	(In 4 fig code - 1112z - 1113z) (Back to 4 fig code 1116z) AR (1129z)				
	VV Q63 RMN 8504 TO 50.4 UGT COMMSS BT BT 21831/5.84/2000/237 NR/850. AR BT 21831/5.. 2000/237 BT NR /84 ? ? 504 AR AR Z *GKVZ* DE				
	1012 - 1013z	22 May	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
	1048 - 1049z	24 May	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	1900 - 1859z	28 May	(In tfc - Possibly Q7NW (Mon) (GT Hong Kong)	JPL	MON
	MSG NR 17/CCK CK 25 84 0529 BT TU.T MSG NR 17/EEEEEE MSG NR 17/CCK CK 25 84 0529 0250 BT BT T6A3 U74A 7N5D NUT5 UA5T ... (1901z) AR (1902z) ULL HR ULL HR ULL HR ULL HR ULL HR (1903z) (Silent) (Monitored until 1904Z)				
	1748 - 1804z	29 May	(In chat - Possibly Q7NW) - working FFI7) (GT Hong Kong)	JPL	TUE
	(1749z) VV *FFI7* K (1748z) (New call sign) VV FFI7 K K VV FFI7 K VV FFI7 K NR 2. QSY .. NR 1 U K (Very rough copy) VV FFI7 K VV .SY .. NR 1 .. K VV FFI7 ... K K QSY . 1 .. K .. NR .... K K ... K K (1752z) K K VV FFI7 K K K VV .. NR 3 K .. 3 .. QS .. NR 3 K VV FFI7 K (1756z) VV QS. T NR .. NR 3 K (Someone sending but mostly U/R 1758z) (Monitored until 1804z)				

5801//NRH	1310 - 1311z	24 May	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	2129 - 2134z	28 May	(In chat/msg - Possibly CZT2) (GT Hong Kong)	JPL	MON
		(2129z)	NR 71 CK 70 70 0529 0500 RMKS 6865 71200 6865 713 K (2129z) BT BT A6D4 5376 4T7A A7A... (Cont'd) 3U47 UN4T 3UG. A7N4 UAD7 NAUT 4UA7 5TN6 7NAU EUA6T T53N 5N3A DN6U NTDA AT7D 3ATN .54. TAU7 NT3A TA73 7653 U.N. U75N 7AN5 5T.UY TAD5 34UT TD4N 7D43 UAT4 A633 4UN5 UT73 DA.N DAU TE? T43N 7654 7TDA C K (2134z) R R R R (Appears to have changed to voice – USB – 2134Z) (Silent 2140z – Monitored until 2145z)		
(This appears to be an outstation as it replied R R then switched to voice) (Checked 6837 throughout the day by N/H)					
(6837 N/H yesterday (Sunday) - 6837 was also N/H the previous Sunday)					
2121 - 2138z		29 May	(In tfc/chat) (GT Hong Kong)	JPL	TUE
(In tfc – 4 fig cut numbers) (Freq checked at 2116z but N/H)					
		(2123z)	AR K R R U HR GA K U MSG GA		
(Checked 8040 / 5278 / 6837 for other end but N/H)					
			R QSL 0528 0528 K (2128z) U.. R R R R R R HR MSG GA K MSG NR 2364 HR MSG CK GA K MSG GA K R R MSG NR 7107 F. 70 70 0530 0500 RMKS ETU 6865 712 TO 5865 713 K (2130z) R R BT AU47 DU47 D4AT4 ? BT BT AU47 DU47 D4AT 45AN AU37 574D 5A3D 5A46 D7NA A465 UD3NAN..... AR K (2134z) R 2. W BT DASN DASN AR K AGN AGN R 49 W BT 5A3D 5A3D AR R R R C R (Switched to voice – 2136z - Silent at 2145) (Monitored until 2148z)		
1226 - 1238z		31 May	V DKG6 (x3) DE 3A7D (x2) (In tfc) (GT Hong Kong)	JPL	THU
1351 - 1352z		31 May	V DKG6 (x3) DE 3A7D (x2) (GT Hong Kong)	JPL	THU
6773//4225 (6773 only)	1036 - 1037z	06 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
(6773 only)	1137 - 1138z	29 May	V HF2L (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
6773//8040	2237 - 2240z	03 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	1028 - 1029z	10 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	THU
(8040 only)	1127 - 1128z	11 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
	1043 - 1044z	13 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
(6773 only)	1054 - 1055z	18 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
	1015 - 1016z	19 May	V H2FL (x3) D E DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
(8040 only)	2318 - 2319z	19 May	V H2FL (x3) D E DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
	2209 - 2210z	20 May	V H2FL (x3) D E DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1007 - 1008z	21 May	V H2FL (x3) D E DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	MON
(6773 only)	1014 - 1015z	22 May	V H2FL (x3) D E DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
	1052 - 1053z	24 May	V H2FL (x3) D E DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	2205 - 2206z	26 May	V H2FL (x3) D E DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
	0958 - 0959z	27 May	V H2FL (x3) D E DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1103 - 1104z	28 May	V H2FL (x3) D E DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	MON
	0134 - 0151z	29 May	(In Chat - possibly DRV8) (GT Hong Kong)	JPL	TUE
		(0134z)	GA NPT RPT KP (0138z) (Silent) K (0150z) (Silent - Monitored until 0219z)		
1138 - 1153z		29 May	(In Chat - possibly DRV8) (GT Hong Kong)	JPL	TUE
		(1139z)	R WU (1139z) R QSL 1940 K (1140z) R R AS .. K R FU5EEE FF/07 BT HHEE NR 076/EX 1940 RMKS 7814 TO 4284 K (1141z) R NR 1 EEEE NR 076/EX R BT PEQ3/VRSU4 AR BT PEQ3/VRSU AR EEEE BT (1143z) R R.. AGN K (1144z) A N.. RR GT10W K (1147z) (1149z) R FM R OK QSL 1948 K (1147z) R R MIT R MIT (1149z) (Monitored until 1153z)		
(Checked 6837 / 5278 / 5801 for other end, but no luck 1151z)					
(8040 only)	0104 - 0225z	30 May	V YMN5 DE USSS (In Chat/tfc) (GT Hong Kong)	JPL	WED
		(0105z)	.... R QSA 2 k R 3972 AR K R HR /204 K GA R GA R QSL 0905 K (0106z) NR 15/EX 0906 RMKS ..8850 4284 K BT BT SKME1/MOD AR BT SKME1/MODE2 AR K (0107z) AS GA R .. K R R QTS ME ? K GA VV YMN5 *YMN5 DE USSS* UHSS K (0112z) OK HR 7G.. K ZGNr 1322 CK 80 41 0530 T900 RMKS 5805 394 TO 5800 ...393 .. BT BT BT 7D3A 746T U5D7 T77T .... (Cont'd) (0114z) 6DU5 AN45 T564 A7.M U4DAU TD3A 63TD 4 EEE 543T ND7N ND7D 6U4A A7DN 6D3U 73UT TDU5 3U.4 T4DA EEE 76T. S34T N6A6 373U 34N3 6A57 76ND NTT. TU76 T563 U5T7 3UT4 3UUN ... 6N57 543T 66.. T535 AR AR (0118z) OK UGT GA R R .. GA .. 59WU (0124z) RPT 60W K RPT OK QSL 0924 K OK 7G/1323 CK 80 41 0530 0900 RMKS 5805 394 TO 5.05 393 K (0126z) BT BT BT 4NA6 ATD4 476U 745D 76AD 5NT5 NU4T ADN7 TT7T DUN3 ND3T 5U43 ND56 SDUT N3AU 73D6 N6A7 47AD N756 4A63 NAT4 6U6A 347N A63T 567N 6N5. RU3 ... (Cont'd) 56NT ANDT 5A3A 7DT 4A6D U3AU 65T4 56ND 745D 4753 343U 7..N ADU4 573A AR AR (0130z) OK ET.. OK GT VVV K I VV VV .. K VV .. K CTVV 97 AR K .. HR NR 203 K R .. K R UI /8.. NR 0.6/EX 094 3.. (2ND station on freq causing interference) ... K K RPT 20W K EEE BT BT ..F.. TVXZ K FO4. TU . K RPT 77 EEE RPT 78W K (0138z) OK QSL 0937 K R NR NR 1324 CK 80 41 0300 900 RMKS 5.0539 4 TO 580539 3 K (0140z) BT BT BT U3A4 D7NA U476 565T 56DU DN5T AA37 NU5T TT7T UN3D 6EEE 7647 NUAD TD43 34UD NT7U TN6T 6764 643T AN EEEE A74N UT5N ADT5 7T7T AT4A T477 537A DN65 74D6 N77U 6TA5 DN4T T4D4 3DTT 6A5D A5U6 NDNA D7.7 6535 63U3 DTNA 56TU 3ATU T3U5 47.7 DTND 76ND DA3D AD5N 6376 AD36 NDNT T773 .63U 3DUA 7U5U 53U3 64DN 7566 TUAU 47TD 664U 63N3NEEEE 6534 N364 5U3U 4U4D D5N7 7A4A ND57 7447 N34N UDA7 TA3 EEEE TAU3 5347 55A3 53N5 3T6. 643U AUU4 NU35 U4D4 37A5 ... AR AR (0144z) OK UGA OK QSL 0949 K (0150z) OK SB SK SK SK (0150z) (To voice – USB 0151z) (Also some data being sent)(Silent 0153z)		

			<p>VVV *HHU6* HH.. (0200z) VVV *HHU6* 972 AR R.. R.. R QSL 1003 (0201z)  R NR 1./EX 10.4 RMKS 7894 TO 4284 K R BT AF4S..M.D1X AR BT AF4.A.MODJX AR K (0203z) BT  A4SA/MODJX AR K BT AF4.A/MODJX AR (0204z) R R HR /203 K R GA RPT R RPT (0211z)  K K K 1P K K VV HHU6 SHU6 SH R 1P R 83W R QSL 3W R 3W 4W R 4W  R UZ PSE UZ WTO NR .2 PSE QSY TO NR 02 SI PSE U QSY TO NR 02 NR 02 (0213z) VV K 4W  V VV *HHU6 HHU6 DE GP2Q* K K R 4W R R 79W R 79W R OK QSL 1016 K (0214z)  (0215z) R MSG NR 19 CK 99 80 0530 1000 BT R (Silent 0215z) (Monitored until 0225z)</p>		
(8040 only)	0908 - 0921z	30 May	(In 4 fig cut number tfc/chat) (GT Hong Kong)	JPL	WED
			(Searched for other end on 6773 5278 5801 6837 but N/H)		
		(0908z)	<p>AR K RPT R 7W BT DUAT AR K QSL 1708 K A GA (0911z) GA  OK QSL N EEEE QSL 1.14 K (0916z) R MSG NR 138 2 CK 80 41 0530 1700 RMKS 5805 394 TO 5805 397 K R BT BT  (Into 4 fig cut number tfc) AR K (0921z) OK U GA R A (0922z) RPT T12W K (0927z) R OK QSL 1727 K  (Gone to voice – USB) (Silent 0928z) OK (0934z) (Appears to be another station – not the same as the previous one)  VV 9JPR K 156 .. R R NR 212 K G VV VV BPSR .. QSA 2 NR 1.NR 13 R K R N 12 ..K NR ?  VV 6VZ K VV BVZV K VV J7R K VV BJ7A K VV KB4A K VV KB4A K VV 2WYR K  RRR QSA 2/223/223 AR K (A station replied when 2WYR was called) RR NR 212 AR QS.. (2WYR)  (0936z) VVV RNM 8 K NR 112 AR K (0936z) (Silent)</p>		
			(Voice – USB 1009z) (Appears to be sending a msg – repeats each group twice) (Silent 1014z) (Voice back up 1017z)		
			V H2FL DE DRV8 (Extremely weak in the background starting to come through, so this activity would appear to NOT BE associated with DRV8) (Monitored until 1023z)		
(8040 only)	0058 - 0114z	31 May	(Chat/tfc) (GT Hong Kong)	JPL	THU
		(0058z)	USTD .. (Very weak) (In 4 fig cut number tfc) (0104z) AR (0107z) OK Q... ..EEE GT.. (0113z) (Mostly U/R) (0114z)		
(8040 only)	1403 - 0430z	31 May	(Chat/tfc) (GT Hong Kong)	JPL	THU
		(1403z)	<p>(In tfc – 4 fig cut nr groups )  7T57 ADUA D6AN 67U3 76AD 7346 734A 4AD3 75A5 6AUT UNN5 3473 ND3A .DN. .53U4 U54D 6UAN N34A DUDU 735T  4DN. UT3A U7.6 N4AN TD.D AR (1406z) OK GA (1407z) OK U GA RPT NR NR K (1308z) (Lost audio on tuner 1310z)  ... 8T 41053 13. RMKS 5805 61800 5805 .16 K (1411z) BT BT 6U75 ..(Into 4 fig cut nr groups) U7TD AR (1415z)  OK OK GA OK GI (1416z) QSL 2220 K (1419z) OK MSG NR NR 5.87 CK 80 41 .531 2105 RMKS 5805 61800 5805 616 K  (1424z) OK BT 4NN4 5TTN A7T6 7T5N DN65 ..... (Cont'd) AR (1423z) M K OK (Silent 1424z)  (Monitored until 1430z)</p>		
6840//10640	1220 - 1225z	01 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	TUE
	0120 - 0125z	05 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	SAT
	1120 - 1125z	06 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	SUN
(6840 only)	1925z	08 May	Q2M Q2M Q2M de NYZ NYZ NYZ QSA ? k (EOT)	FN	TUE
	1020 - 1025z	10 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	THU
	1220 - 1225z	10 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	THU
	1120 - 1125z	11 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	FRI
	0920 - 0925z	12 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	SAT
	1220 - 1225z	13 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	SUN
	2320 - 2325z	13 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	SUN
	1121 - 1126z	15 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	TUE
	1221 - 1226z	15 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	TUE
	1221 - 1226z	15 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong) (In chat)	JPL	TUE
			(Once again another station in chat/tfc on 6840 prior to NYZ sked)		
			R AS AS (1220z) 7GPS EEE CQ H....		
			(NYZ Sked 1221z until 1226z drowns weaker signal which continued to send)		
		(1226z)	<p>... 6UDT BDAU AR RWT ? K NR 1635 CK 8T 15 T515 2000 BT HW NW0673 K  50W BT 0247 K AS 8FBG K 8FBG K G2IB K UAY. T K QSY 6 .. QSY 6 (1229z)  (Monitored until 1232z)</p>		
	2321 - 2326z	15 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	TUE
	0819 - 0824z	16 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	WED
	1020 - 1025z	17 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	THU
	1119 - 1124z	18 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	FRI
	1019 - 1024z	19 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	SAT
	2320 - 2325z	19 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	SAT
	1219 - 1224z	20 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	SUN
	1219 - 1224z	21 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	MON
	1120 - 1125z	22 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	TUE
	2320 - 2325z	24 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	THU
	0920 - 0925z	26 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	FRI
	1020 - 1025z	27 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	SUN
	1120 - 1125z	28 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	MON
	1120 - 1125z	29 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	TUE
	2320 - 2325z	29 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	TUE
	2320 - 2325z	30 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	WED
7582//8110	0155 - 0156z	04 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong) (In tfc)	JPL	FRI
	0126 - 0127z	05 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
	0846 - 0847z	12 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
	0240 - 0241z	15 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
	0825 - 0826z	16 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	WED
	0942 - 0943z	21 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	MON
	0051 - 0052z	22 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
	2327 - 2328z	24 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	0916 - 0917z	25 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	FRI

(7582 only)	0144 - 0145z	28 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	MON
	0130 - 0133z	29 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
	0210 - 0211z	29 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
	0006 - 0007z	30 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	WED
	0943 - 0944z	30 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	WED
	0056 - 0057z	31 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	1244 - 1245z	31 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	THU
7602//NRH	1347 - 1348z	31 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	THU
7602//NRH	1718 - 1719z	18 May	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
	1905 - 1906z	18 May	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
8789//10779	0200 - 0235z	04 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (Svc msg sent 0230z)	JPL	FRI

VVV HR SVC GA NR 20 1045 RMKS 5237 TO 6187 BT COMM/1100/LZ147A/5238/6187 AR  
HR SVC GA NR .. 1015 RMKS 5237 TO 6418 BT 6708 5298 5268 BT HR QRW 6417 6707 5297 QRW L16 1100 KP 5238 AR AR  
HR WK NR 44 QSL ? (0231z) (Return to Round Slip)

(10779 only)	0126 - 0127z	05 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
	1041 - 1047z	06 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1015 - 1016z	10 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	0852 - 0853z	10 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
	1045 - 1046z	13 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	2318 - 2319z	13 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	0243 - 0244z	15 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
	1042 - 1043z	15 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
	2314 - 2315z	15 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
	0827 - 0829z	16 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	WED
	1010 - 1019z	17 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	1008 - 1010z	19 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
	2316 - 2317z	19 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
	0945 - 0946z	21 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	MON
	0053 - 0054z	22 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
	1016 - 1019z	22 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
	1448 - 1449z	22 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
	1936 - 1950z	22 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
	<i>Note: Still on 8789//10779 at 1448z. Normally switches to night time freqs of 4590/7607 by this time</i>				
	1054 - 1125z	24 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	1253 - 1254z	24 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	1957 - 1958z	24 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	<i>Note: Did not change to night time frequencies of 4590/7607 again.</i>				
	2325 - 2326z	24 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	0928 - 0929z	25 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
	0955 - 0956z	27 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	0148 - 0149z	28 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	MON
	1058 - 1059z	28 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	MON
	0102 - 0204z	29 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
	2314 - 2315z	29 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
	0008 - 0009z	30 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	WED
	0945 - 0946z	30 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	WED
	1027 - 1028z	30 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	WED
	0057 - 0058z	31 May	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	THU

#### June 2012:

GT = Global Tuners (Online remotely controlled receivers)

JPL copied this exchange on 8787kHz - Not a regular M89 frequency.

8787kHz	0933 - 0956z	25 Jun	(In chat/msg) (CZT2 has previously used this freq) (GT Hong Kong)	JPL	MON
	(0935z)		BT G05ZH/SX6QF BT G05ZH/SX6QF AR R UGA K (0937z) R GA K R QSL 1738 K (0938z) R HR MSG GA K MSG NR 18 CK 99 58 0235 1730 B T 34T5 3773 4ATU 3U6T D335 D76A 3DU6 T54A TA7N TTA6 (Cont'd) AR K (09043z) R 43U5 AR K BT A75A AR K R BT U7AN AR K (0944z) R BT 3UT4 AR K R BT U5T4 AR K R U MSG GA K (0946z) (0952z) R GA K (0947z) R QSL 1754 K (0951z) SK GB (Silent)		

The regular M89 logs continue below:

3297//NRH	1208 - 1208z	01 Jun	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
	2023 - 2024z	01 Jun	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
	1238 - 1239z	04 Jun	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	MON
	1609 - 1610z	04 Jun	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	MON
	2016 - 2017z	04 Jun	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	MON
	1306 - 1307z	05 Jun	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
	1508 - 1509z	05 Jun	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
	1716 - 1717z	05 Jun	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
	1226 - 1227z	06 Jun	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	WED
	1615 - 1616z	06 Jun	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	WED
	1735 - 1736z	06 Jun	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	WED
	1745 - 1746z	07 Jun	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	1801 - 1802z	09 Jun	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
	1417 - 1418z	10 Jun	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1650 - 1651z	10 Jun	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1852 - 1853z	10 Jun	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	2051 - 2052z	10 Jun	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1750 - 1755z	11 Jun	(In tfc - 4 fig cut nr until 1755z) (GT Hong Kong)	JPL	MON

	1917- 1918z	11 Jun	V GKVZ (x3) DE Q7NW (x2) ( Cont'd) (GT Hong Kong)	JPL	MON
	1715- 1716z	12 Jun	V GKVZ (x3) DE Q7NW (x2) ( Cont'd) (GT Hong Kong)	JPL	TUE
	1940- 1941z	12 Jun	V GKVZ (x3) DE Q7NW (x2) ( Cont'd) (GT Hong Kong)	JPL	TUE
	2032- 2033z	12 Jun	V GKVZ (x3) DE Q7NW (x2) ( Cont'd) (GT Hong Kong)	JPL	TUE
	1641- 1642z	13 Jun	V GKVZ (x3) DE Q7NW (x2) ( Cont'd) (GT Hong Kong)	JPL	WED
	1647- 1647z	14 Jun	V GKVZ (x3) DE Q7NW (x2) ( Cont'd) (GT Hong Kong)	JPL	THU
	2025- 2042z	14 Jun	V GKVZ (x3) DE Q7NW (x2) ( Cont'd) (GT Hong Kong)	JPL	THU
	1655- 1656z	15 Jun	V GKVZ (x3) DE Q7NW (x2) ( Cont'd) (GT Hong Kong)	JPL	FRI
	1852- 1853z	15 Jun	V GKVZ (x3) DE Q7NW (x2) ( Cont'd) (GT Hong Kong)	JPL	FRI
	2108- 2109z	15 Jun	V GKVZ (x3) DE Q7NW (x2) ( Cont'd) (GT Hong Kong)	JPL	FRI
	1629 - 1630z	20 Jun	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	WED
	2048 - 2049z	20 Jun	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	WED
	1231 - 1232z	21 Jun	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	1651 - 1652z	21 Jun	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	1925 - 1926z	21 Jun	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	1140 - 1144z	22 Jun	(In tfc - 4 fig cut nr ) (Q7NW) (GT Hong Kong)	JPL	FRI
	1642 - 1643z	22 Jun	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
	1929 - 1930z	22 Jun	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
	2112 - 2113z	22 Jun	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
	1151 - 1152z	23 Jun	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
<u>3797//4512</u>					
(4512 only)	1313 - 1314z	05 Jun	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
(4512 only)	1514 - 1515z	05 Jun	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
(3797 only)	1804 - 1805z	09 Jun	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
(4512 only)	1651 - 1652z	14 Jun	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	THU
(4512 only)	1233 - 1234z	21 Jun	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	THU
(4512 only)	1653 - 1654z	21 Jun	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	THU
(4512 only)	1928 - 1929z	21 Jun	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	THU
(3797 only)	1646 - 1647z	22 Jun	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
<u>4225//5500</u>					
(5500 only)	1209 - 1210z	01 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
(5500 only)	2027 - 2028z	01 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
(5500 only)	1236 - 1237z	04 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	MON
(5500 only)	1607 - 1608z	04 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	MON
(5500 only)	2015 - 2016z	04 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	MON
(5500 only)	1302 - 1303z	05 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
(5500 only)	1506 - 1507z	05 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
(5500 only)	1710 - 1715z	05 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
(5500 only)	2151 - 2152z	05 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
	1225 - 1226z	06 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	WED
	1613 - 1614z	06 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	WED
	1733 - 1734z	06 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	WED
	2144 - 2145z	06 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	WED
	1054 - 1055z	07 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	1741 - 1742z	07 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	2046 - 2047z	07 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	1241 - 1242z	08 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
	1116 - 1117z	09 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
	1758 - 1759z	09 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
	1006 - 1007z	10 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1147 - 1148z	10 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1414 - 1415z	10 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1646 - 1647z	10 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1848 - 1849z	10 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	2047 - 2048z	10 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	2216 - 2217z	10 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1108 - 1219z	11 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Msgs sent at 1128z/1152z)	JPL	MON
VV UGT COMM BT 3859/2000/G75/9289 AR (x2) (1128z) (Returns to R/S 1129z)					
VV UGT COMM BT 3389/2020/Z.0/9289 AR (1151z) (x2) (Returns to R/S 1152z)					
	1253 - 1447z	11 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Msgs sent at 1328z)	JPL	MON
VV UGT COMM BT 3901/2200/G70/9283 (x2) (1328z) (Returns to R/S 1329z)					
	1747 - 1748z	11 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	MON
	1914 - 1915z	11 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	MON
	1458 - 1459z	12 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
	1712 - 1713z	12 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
	1938 - 1939z	12 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
	2028 - 2029z	12 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
(4225 only)	1639 - 1640z	13 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	WED
	1651 - 1652z	15 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
	1848 - 1849z	15 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
	2253 - 2254z	15 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
	1003 - 1008z	16 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
(5500 only)	1046 - 1047z	20 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	WED
(5500 only)	1619 - 1620z	20 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	WED
(5500 only)	2043 - 2044z	20 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	WED
(5500 only)	1647 - 1648z	21 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	1916 - 1917z	21 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	THU

(5500 only)	1137 - 1138z	22 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
(5500 only)	1638 - 1639z	22 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
(5500 only)	2108 - 2109z	22 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
(5500 only)	1157 - 1158z	23 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
(5500 only)	1114 - 1115z	25 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	MON
<u>4474// NRH</u>	1700 - 1717z	15 Jun	(In Chat - msg sent - CZT2 uses this freq) (GT Hong Kong)	JPL	FRI
		(1700z)	DNN5 AR K U QSY TO 3122 K (1700z) U QSY TO 333 EEE UQSY TO 3333 K U QSY TO 3333 K U QSY TO 3333 K (1703z) (Sent many times) U QSY TO 3000 K (1703z) (Sent many times) U QSY TO 3311 K (1706z) (Sent many times) U QSY TO 1111 k (1708z) (Sent many times) QSA 1 K QSA 1 K (1710z) HR QSA 1 K QSA 1 U QY TO 3333 K (1711z) R R AGN 24W... BT N.DAD N AR K (1712z) R OK W BT TA7 1R 89W R 79W BT 4TA AR K R 72W BT A3U3 AR K 1W BT 7DA3 AR K (1714z) R R (1815z) MSG NR 47 CK 299 85 0515 2300 K R R NU7A U3TD 3A7D 34DA AD4N ... (Cont'd) (1716z) PN (1717z) 21W GA K BT BT UA34 5A54 5AD7 ... (Cont'd) (1717z) AR (1728z) R BT 36 UD AR (1729z) R 43W BT 3BD. AR K R R 80W BT D R BT AUT5 AR K 2P K R 81W BT AUT5 AR K 62W BT N4U3 AR K (1731z) R 31W BT D4T6 AR K R 96W BT ND4A AR K R 47W BT T6NU AR K R (1733z) AGN K (Unable to monitor any longer - other commitments - 1734z)		
		(1734z)			
<u>4590//7607</u>					
(7607 only)	1243 - 1244z	04 Jun	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	MON
(7607 only)	1611 - 1612z	04 Jun	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	MON
(7607 only)	2017 - 2028z	04 Jun	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	MON
	1311 - 1312z	05 Jun	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
	1512 - 1513z	05 Jun	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
	1730 - 1759z	05 Jun	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
	2155 - 2156z	05 Jun	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
(7607 only)	1233 - 1234z	06 Jun	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	WED
(7607 only)	1614 - 1615z	06 Jun	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	WED
(7607 only)	1738 - 1749z	06 Jun	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	WED
(7607 only)	1825z	06 Jun	V WITN WITN WITN de GNXXG GNXXG GNXXG	FN	WED
(7607 only)	2146 - 2147z	06 Jun	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	WED
	1743 - 1744z	07 Jun	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	THU
(7607 only)	2048 - 2049z	07 Jun	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	1243 - 1244z	08 Jun	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
	1800 - 1801z	09 Jun	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
(7607 only)	1149 - 1150z	10 Jun	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1416 - 1416z	10 Jun	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1648 - 1649z	10 Jun	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1850 - 1851z	10 Jun	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	2049 - 2050z	10 Jun	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
(7607 only)	2217 - 2218z	10 Jun	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
(7607 only)	1103 - 1104z	11 Jun	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	MON
(7607 only)	1749 - 1750z	11 Jun	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	MON
(7607 only)	1915 - 1916z	11 Jun	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	MON
(7607 only)	1717 - 1718z	12 Jun	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
(7607 only)	1943 - 1944z	12 Jun	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
(7607 only)	2030 - 2031z	12 Jun	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
	1643 - 1644z	13 Jun	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	WED
(7607 only)	1653 - 1654z	15 Jun	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
(7607 only)	1850 - 1851z	15 Jun	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
(7607 only)	2106 - 2107z	15 Jun	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
(7607 only)	2255 - 2256z	15 Jun	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
	1625 - 1626z	20 Jun	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	WED
	2045 - 2046z	20 Jun	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	WED
(7607 only)	1117 - 1118z	21 Jun	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	1235 - 1236z	21 Jun	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	1649 - 1650z	21 Jun	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	1918 - 1919z	21 Jun	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	1640 - 1641z	22 Jun	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
	1927 - 1928z	22 Jun	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
	2110 - 2111z	22 Jun	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
	1208 - 1219z	23 Jun	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
		(1215z)	(Missed 1st part of msg - 1215z) RMKS 4096 TO .01. 2385 1675 402. BT SVC QRW 4916 2386 FE6M6 QRW L16 2100 K/ 4095 . WK NR 46 Q..? (Only sentence by hand)(Return to R/S )		
		(1216z)			
(7607 only)	1109 - 1110z	25 Jun	V WITN (x3) D E GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	MON
<u>4860// 6840</u>					
	1620 - 1625z	04 Jun	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	MON
	2020 - 2025z	04 Jun	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	MON
	1320 - 1325z	05 Jun	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	TUE
	1520 - 1525z	05 Jun	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	TUE
	1720 - 1725z	05 Jun	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	TUE
	1620 - 1625z	06 Jun	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	WED
	1820 - 1825z	07 Jun	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	THU
	1820 - 1825z	09 Jun	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	SAT
	1420 - 1425z	10 Jun	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	SUN
	2219 - 2224z	10 Jun	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	SUN
	1920 - 1925z	11 Jun	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	MON
	1720 - 1725z	12 Jun	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	TUE
	2020 - 2025z	14 Jun	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	THU
	1920 - 1925z	15 Jun	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	FRI
	1620 - 1625z	20 Jun	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	WED



	1919 - 1924z	21 Jun	VVV (x3) Q2M DE NYZ (x2) Q SA ?K (R5) (GT Hong Kong)	JPL	THU
	1919 - 1924z	22 Jun	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	FRI
	2120 - 2125z	22 Jun	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	FRI
<u>5230//3642</u>	2025 - 2026z	01 Jun	V DKG6 (x3) DE 3A7D (x2) ( Cont'd) (GT Hong Kong)	JPL	FRI
(5230 only)	1228 - 1230z	06 Jun	V DKG6 (x3) DE 3A7D (x2) ( Cont'd) (GT Hong Kong)	JPL	WED
(5230 only)	1736 - 1737z	06 Jun	V DKG6 (x3) DE 3A7D (x2) ( Cont'd) (GT Hong Kong)	JPL	WED
	1747 - 1748z	07 Jun	V DKG6 (x3) DE 3A7D (x2) ( Cont'd) (GT Hong Kong)	JPL	THU
(5230 only)	1802 - 1803z	09 Jun	V DKG6 (x3) DE 3A7D (x2) ( Cont'd) (GT Hong Kong)	JPL	SAT
(5230 only)	1425 - 1426z	10 Jun	V DKG6 (x3) DE 3A7D (x2) ( Cont'd) (GT Hong Kong)	JPL	SUN
	1716 - 1717z	12 Jun	V DKG6 (x3) DE 3A7D (x2) ( Cont'd) (GT Hong Kong)	JPL	TUE
(5230 only)	2034 - 2035z	12 Jun	V DKG6 (x3) DE 3A7D (x2) ( Cont'd) (GT Hong Kong)	JPL	TUE
(5230 only)	1631 - 1632z	20 Jun	V DKG6 (x3) DE 3A7D (x2) ( Cont'd) (GT Hong Kong)	JPL	WED
(5230 only)	1651 - 1652z	21 Jun	V DKG6 (x3) DE 3A7D (x2) ( Cont'd) (GT Hong Kong)	JPL	THU
	1927 - 1928z	21 Jun	V DKG6 (x3) DE 3A7D (x2) ( Cont'd) (GT Hong Kong)	JPL	THU
	1644 - 1645z	22 Jun	V DKG6 (x3) DE 3A7D (x2) ( Cont'd) (GT Hong Kong)	JPL	FRI
	2137 - 2138z	22 Jun	V DKG6 (x3) DE 3A7D (x2) ( Cont'd) (GT Germany)	JPL	FRI
<u>5278//NRH</u>	1052 - 1057z	20 Jun	(In tfc - 4 fig cut nrs until 1055z) AR VGKVZ (x3) DE Q7NW (x2) (Cont'd)	JPL	WED
	1104 - 1105z	25 Jun	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	MON
<u>5801//NRH</u>	1217 - 1218z	01 Jun	V DKG6 (x3) DE 3A7D (x2) ( Cont'd) (GT Hong Kong)	JPL	FRI
	1309 - 1310z	05 Jun	V DKG6 (x3) DE 3A7D (x2) ( Cont'd) (GT Hong Kong)	JPL	TUE
	1510 - 1511z	05 Jun	V DKG6 (x3) DE 3A7D (x2) ( Cont'd) (GT Hong Kong)	JPL	TUE
	1246 - 1247z	08 Jun	V DKG6 (x3) DE 3A7D (x2) ( Cont'd) (GT Hong Kong)	JPL	FRI
<u>6773//8040</u>	1203 - 1205z	01 Jun	V H2FL (x3) D E DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
(8040 only)	0123 - 0144z	01 Jun	(Chat/tfc) (GT Hong Kong)	JPL	FRI
OK 7G NR 1577 CK 80 41 0601 0900 RMKS 5805 393 TO 5805 393 KK BT BT BT N7N. 7.ND 4653 TUDT ... (Cont'd) ANA5 AN47 A4T3 3ADN 6T3U AT3U 77U6 4N6T 6U45 A57U 6NND 7U45 AT3N 3ADN 4AUT 6T3U 4TN5 3T5N U75T D3T4 6DA5 DT7U DT76 BDAT A7D3 5AD3 5AD3 T47D 6N3U 4T36 UDNA 3U6D 6UA3 D7A5 45UN 7AUD 345N AR AR (0129z) OK U GT OK GA (0130z) OK QSL TGNIMSTK KFKP (0134z) (Silent) (Monitored until 0144Z)					
	2158 - 2159z	05 Jun	V H2FL (x3) D E DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
(8040 only)	1058 - 1059z	07 Jun	V H2FL (x3) D E DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	THU
(6773 only)	1008 - 1009z	10 Jun	V H2FL (x3) D E DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1152 - 1153z	10 Jun	V H2FL (x3) D E DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
(6773 only)	1030 - 1031z	14 Jun	V H2FL (x3) D E DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	THU
(6773 only)	1011 - 1012z	16 Jun	V H2FL (x3) D E DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
	1050 - 1051z	20 Jun	V H2FL (x3) D E DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	WED
(8040 only)	1115 - 1116z	21 Jun	V H2FL (x3) D E DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	1106 - 1107z	25 Jun	V H2FL (x3) D E DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	MON
<u>6840//10640</u>	1220 - 1225z	01 Jun	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	FRI
	1220 - 1225z	06 Jun	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	WED
(6840 only)	0922 - 0925z (IP)	07 Jun	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (In Progress) (GT Hong Kong) (Hand Sent - Unusually weak)	JPL	THU
	1120 - 1125z	07 Jun	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	THU
	1120 - 1125z	09 Jun	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	SAT
	0220 - 0225z	10 Jun	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	SUN
	1020 - 1025z	10 Jun	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	SUN
	1220 - 1225z	11 Jun	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	MON
	2320 - 2325z	13 Jun	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	WED
	1020 - 1025z	14 Jun	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	THU
	1025 10640z	16 Jun	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	SAT
	1120 - 1125z	20 Jun	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	WED
	1120 - 1125z	21 Jun	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	THU
	1220 - 1225z	23 Jun	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	SAT
	1120 - 1125z	25 Jun	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	MON
<u>7582//8110</u>	0205 - 0206z	01 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
(8110 only)	0227 - 0228z	07 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	0928 - 0929z	07 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	0157 - 0158z	10 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
(7582 only)	2326 - 2327z	13 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	WED
	0933 - 0934z	25 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	MON
<u>8789//10779</u>	0207 - 0208z	01 Jun	V WITN (x3) DE GNXG (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
	1206 - 1207z	01 Jun	V WITN (x3) DE GNXG (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
	2030 - 2031z	01 Jun	V WITN (x3) DE GNXG (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
	0230 - 0231z	07 Jun	V WITN (x3) DE GNXG (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	0930 - 0931z	07 Jun	V WITN (x3) DE GNXG (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	1056 - 1119z	07 Jun	V WITN (x3) DE GNXG (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	1118 - 1119z	09 Jun	V WITN (x3) DE GNXG (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
	0158 - 0200z	10 Jun	V WITN (x3) DE GNXG (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1004 - 1005z	10 Jun	V WITN (x3) DE GNXG (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
(10779 only)	1102 - 1102z	11 Jun	V WITN (x3) DE GNXG (x2) (Cont'd) (GT Hong Kong)	JPL	MON
			Note: Stopped sending - appears to have switched to night time freq - see 4590//7607 above		
	2304 - 2305z	13 Jun	V WITN (x3) DE GNXG (x2) (Cont'd) (GT Hong Kong)	JPL	WED



## **VOICE STATIONS**

### **E06**[1A]

#### **PoSW's May/June logs and analysis:**

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

3-May-12:- 5,948 kHz, calling "724", severe interference from strong broadcast station on 5,950 making copy impossible.

17-May-12:- 5,948 kHz, much stronger than last time, over-riding the BC station, calling "724", DK/GC "358 358 15 15".

7-June-12:- 5,948 kHz, severe broadcast interference again, call "724", gave up on the rest!

##### **Friday Following the First + Third Thursdays in the Month 2130 UTC Schedule:-**

4-May-12:- 5,731 kHz, calling "315", DK/GC "125 125 15 15". Came complete with the rasping-type distortion often noted in the past with Thursday and Friday evening E06 transmissions.

18-May-12:- 5,731 kHz, started approx. 55 seconds after the half hour, "315" and "125 125 15 15" again, and the distortion problem has been fixed - for the time being!

8-June-12:- 5,731 kHz, call "315", DK/GC "189 189 15 15", S9 signal on a clear frequency.

22-June-12:- 5,731 kHz, "315" and "189 189 15 15" again, and the most unpleasant rasping noise has returned.

##### **First + Third Thursdays in the Month 0500 + 0600 UTC Schedule:-**

Couldn't find this schedule on the first Thursday in May, the 3rd, but found the "next day repeat":-

4-May-12, Friday:- 0600 UTC, 16,170 kHz, must be the second sending of the "next day repeat". Unusually, this was being transmitted in SSB carrier suppressed mode instead of the more usual single side-band with carrier, AM compatible mode. When tuned in with the receiver in AM the "quack - quack - quack" effect was unmistakable as the E06 OM three-figure call-up routine! Quickly setting the receiver to USB produced call "460", DK/GC "385 385 102 102". Strong signal. E2K NL 70, hot off the press a few days later, suggests 14,460 kHz for the 0500z sending.

17-May-12:- 0500 UTC, 14,460 kHz and 0600 UTC, 16,170 kHz, both very, very weak signals, could just make out the "460" call-up - but upon returning home in the evening I discovered I had had the receiver ATU switched in - and peaked up on a frequency somewhere near 5 MHz and so was attenuating 14 and 16 MHz completely!

18-May-12, Friday:- 0500 UTC, 14,460 kHz, taking care the ATU is bypassed, call "460", DK/GC "385 385 102 102".  
0600 UTC, 16,170 kHz, second sending, both transmission in "with carrier" AM compatible mode.

7-June-12:- 0512 UTC, 14,710 kHz, suddenly realised it was Thursday - and the first one in the month of June! E06 found in progress on 14,710 kHz, S5 to S6, no problem to find.  
0600 UTC, 16,240 kHz, second sending, calling "328", DK/GC "746 746 105 105".

8-June-12, Friday:- 0500 UTC, 14,710 kHz and 0600 UTC, 16,240 kHz, next day repeats of "328" and "746 746 105 105".

21-June-12:- 0500 UTC, 14,710 kHz, call "328" and "746 746 105 105, same as last time.  
0600 UTC, 16,240 kHz, second sending, both transmissions S5 to S6.

22-June-12, Friday:- 0500 UTC, 14,710 kHz and 0600 UTC, 16,240 kHz, the next day repeats, both good signals.

##### **Second Wednesday in the Month 1920 + 2020 UTC Schedule:-**

Forgot to search for this one in May, found in June:-

13-June-12:- 1923 UTC, 5,769 kHz:- first sending found with less than a minute to go, a "no message" "154 154 154 00000". Sounded distorted as with some Thursday and Friday E06 in the past.  
2020 UTC, 4,783 kHz, second sending, found one minute in, close to a strong "XJT" on the LF side removed by using the receiver in USB mode.

##### **Sunday Following the Second Wednesday in the Month 1120 + 1220 UTC Schedule:-**

13-May-12:- 1120 UTC, 8,025 kHz, "154 154 154 00000", very weak signal. Unable to find a repeat at 1220z, couldn't find it at all in June.

#### **RNGB's logs**

##### **E06 May log:**

Thursday 3rd	06:00	16170	'460' 385 102 40940 50258 69403 28319 66121.....62899
	20:30	5948	'724' ? 15 12345 45672 56743 37654 09376.....45672 ??
Friday 4th	06:00	16170	'460' 385 102 40940 50258 69403 28319 66121.....62899
Saturday 5th	00:30	8099	'759' 826 31 95659 34503 35752 45169 73086.....21589
Weds 9th	19:20	5769	'154' 00000
	20:20	4783	'154' 00000
Sunday 13th	00:30	8099	'759' 241 36 83293 01070 62744 11660 66887.....99105
Thursday 17th	20:30	5948	'724' 24? 15 Too weak to copy
Friday 18th	06:00	16170	'460' 385 102 40940 50258 69403 28319 66121.....62899
	21:30	5731	'315' 125 15 67356 53625 38908 78645 64738.....64735
Saturday 19th	00:30	8099	'759' 128 30 07885 93960 43420 78903 86246.....67878
Saturday 26th	00:30	8099	'759' 248 31 51447 68214 84099 22458 45420.....80996

##### **E06 June log:**

Saturday 2nd	00:30	8142	'759' 416 30 81282 03181 77893 54237 58303.....45171
Thursday 7th	20:30	5948	'724' 924 15 unreadable
Saturday 9th	00:30	8142	'759' 814 32 87307 12936 00152 59659 39588.....

## Onto others' Logs:

### May 2012:

5731kHz2130z 2130z	04/05[315 125 67356 ... 64735 125 15 00000(s)]2138z Fair. Figs 3,6,0 corrupted 18/05[315 125 15 67356 ... 64735 125 15 00000(s)] 2138z Strong. Started 53s late	(7m30s) (7m36s)	Spectre,PLdn Spectre,PLdn	FRI FRI
E06 5731kHz 2130z 04/18/05 Transcript:				
315 125 15 67356 53625 38908 78645 64768 72514 53612 78356 43562 63768 53689 63723 53674 64765 64735 125 15 00000 Courtesy Spectre				
5948kHz2030z	17/05[724 ?????] Strong signal but with bleeding too strong to copy message		FR	THU
6949kHz0130z 0130z 0130z	05/05[759 826 31 95659 ... 21589 826 31 00000(f)] 0139z Fair QRN2 QSB3 Spectre, FR SAT 06/05[759 826 31 95659 ... 21589 826 31 00000(f)]0040z Very strong 12/05[759 241 36 83293 ... 99105 241 36 00000(f)] Very strong	(9m42s) (10m29s)	Spectre, PLdn FR, PLdn	SUN SAT
759 241 36 83293 01070 62744 11660 66887 60962 69363 68329 07086 41008 38987 34036 76566 58288 00456 45134 92918 54825 09264 81029 37825 37248 64649 43354 21654 43511 69127 11396 29404 16352 78521 65999 08926 88166 17122 94105 241 36 00000 Courtesy FR				
0130z 0130z 0130z 0130z 0130z	13/05[759 241 36 83293 ... 99105 241 36 00000(f)] Strong 19/05[759 128 30 07885 ... 67878 125 30 00000(f)] Very strong 20/05[759 128 30 07885 ... 67878 125 30 00000(f)] Very strong 26/05[759 248 31 51447 ... 80996 248 31 00000(f)] 0139z Fair QRN3 QSB3 27/05[759 248 31 51447 ... 80996 248 31 00000(f)] 0139z Fair QRN3 QSB3	(10m29s) (9m28s) (9m28s)	Spectre,PLdn Spectre,PLdn Spectre,PLdn Spectre Spectre	SUN SAT SUN SAT SUN
8099kHz0030z 0030z 0030z 0030z 0030z 0030z 0030z 0030z	05/05[759 826 31 95659 ... 21589 826 31 00000(f)] 0039z Fair QRN2 QSB4 06/05[759 826 31 95659 ... 21589 826 31 00000(f)]0040z Very strong 12/05[759 241 36 83293 ... 99105 241 36 00000(f)] Strong, QRM2 QSB2 13/05[759 241 36 83293 ... 99105 241 36 00000(f)] Fair 19/05[759 128 30 07885 ... 67878 125 30 00000(f)] Strong, QRM2/3 20/05[759 128 30 07885 ... 67878 125 30 00000(f)] Very strong 26/05[759 248 31 51447 ... 80996 248 31 00000(f)] 0039z Fair QRN3 QSB3 27/05[759 248 31 51447 ... 80996 248 31 00000(f)] 0039z Fair QRN3 QSB3		Spectre, FR Spectre, René DanAr,Spectre,FR Spectre,PLdn Spectre,PLdn Spectre,PLdn Spectre Spectre	SAT SUN SAT SUN SAT SUN SAT SUN
E06 8099/6949kHz 0030/0130z 05/06/05 Transcript:				
759 826 31 95659 34503 35752 45169 73086 66640 78400 52873 07244 32311 64669 91285 22058 57174 28017 28466 36621 05617 09973 45074 94337 70216 26236 58650 53100 66391 58667 77297 22446 61916 21589 826 31 00000 Courtesy Spectre, FR				
E06 8099/6949kHz 0030/0130z 12/13/05 Transcript:				
759 241 36 83293 01070 62744 11660 66887 60962 69363 68329 07086 41008 38987 34036 76566 58288 00456 45134 92918 54825 09264 81029 37825 37248 64649 43354 21654 43511 61927 11396 29404 16352 78521 65999 08926 88166 17122 99105 241 36 00000 Courtesy Spectre				
E06 8099/6949kHz 0030/0130z 19/20/05 Transcript:				
759 128 30 07885 93960 43420 78903 86246 42537 96602 28643 15705 01736 92663 11916 60104 29821 93108 62209 91637 86554 65776 38798 82144 83464 04894 70807 42175 72870 44992 70515 06228 67878 128 30 00000 Courtesy Spectre				
E06 8099/6949kHz 0030/0130z 26/27/05 Transcript:				
759 248 31 51447 68214 84099 22458 45420 95617 60300 53616 18912 93484 96409 10642 21982 17987 17825 12244 60076 39793 89821 84726 42773 29350 76148 91154 46547 12719 30267 77503 87580 83962 80996 248 31 00000 Courtesy Spectre				
14460kHz0500z 0500z	04/05[460 385 102 40940 ... 62899 385 102 00000] Very strong signal, moderate noise 18/05 [?????] Very strong noise, only a few numbers heard here and there, impossible to copy		FR FR	FRI FRI
16170kHz0600z	04/05[460 385 102 40940 ... 62899 385 102 00000] SSB, Very strong, QRM		FR	FRI
460 385 102 40940 50258 69403 28319 6612130943 61468 05577 05544 03470 57501 84288 99545 48274 0835287052 77697 69570 11967 12955 57176 71017 10456 16656 0687749989 30221 02802 88173 79155 38591 02936 08286 17048 1540027139 47173 86296 62940 07547 43910 49238 02731 75958 5346535570 32549 42712 09827 01741 42141 69017 56423 26775 1107049932 39754 34200 37128 50175 07187 74783 68752 59949 5485509750 39880 62982 36586 99182 30686 33955 69800 25283 0263707513 39327 45178 81293 86050 05063 72976 85312 78449 6441735739 25072 86961 55480 33067 19361 84424 11848 54997 0358348997 05053 37873 27889 48602 35521 62899 385 102 00000 Courtesy FR				

### June 2012:

Before the logs, this is the result of observations 0030/0130z 16/17<sup>th</sup> June:

8142/7608kHz0030/0130z	16/06 NRH Solar storm?	Freqs searched, no trace	Spectre, PLdn	SAT
8142/7608kHz0030/0130z	17/06 NRH Possible Solar storm?	Freqs searched, no trace	PLdn, Spectre	SUN

## Onto June logs:

5731kHz2130z 2130z	08/06[315 189 15 87967 ... 65465 189 15 00000(s)] 2138z Fair 22/06[315 189 15 87967 ... 65465 189 15 00000(s)] 2137z Strong	(7m34s) (7m20s)	PLdn PLdn	FRI FRI
5948kHz2030z	07/06[724 924 15 Difficult To Copy] 2037z Fair BCQRM5 QSB3		Spectre, M8, RNGB	THU
7608kHz 0130z	02/06[759 416 30 81282 ... 45171 416 32 00000(f)] 0139z Fair, HETQRM2 [857Hz]	(9m29s)	PLdn	SAT
0130z	03/06[759 416 30 81282 ... 45171 416 32 00000(f)] 0139z Very strong, HETQRM2 [857Hz] QSB2	(9m29s)	Spectre, PLdn	SUN
0130z	09/06[759 814 32 87307 ... 84861 814 32 00000(f)]0140z Very strong	(9m49s)	DanAr,PLdn	SAT
0130z	10/06[759 814 32 87307 ... 84861 814 32 00000(f)]0040z Very strong	(9m49s)	PLdn, FR	SUN

759 814 32  
87307 12936 00152 59659 39588  
02505 14896 98261 08823 89660  
50493 57253 18540 59782 59964  
27434 26053 92781 56139 54454  
41675 24970 44802 22791 42069  
86012 73024 17170 71146 71918  
78085 84861  
814 32 00000      *Courtesy FR*

8142kHz 0030z	02/06[759 416 30 81282 ... 45171 416 32 00000(f)] 0039z Fair	(9m29s)	DanAr, PLdn	SAT
0030z	03/06[759 416 30 81282 ... 45171 416 32 00000(f)]0039z Very strong, local QRM2	(9m29s)	Spectre, PLdn	SUN

E06 8142/7608kHz 0030/0130z 02/03/06 Transcript:

759 416 30  
81282 03181 77893 54237 58303 57477 08132 63182 11604 65956  
56027 08180 54339 19084 72317 09996 00683 14354 52654 62772  
75800 24934 74574 87673 27881 78569 85758 42898 21910 45171  
416 30 00000      *Courtesy Spectre*

0030z	09/06[759 814 32 87307 ... 84861 814 32 00000(f)]0040z Very strong	(9m49s)	PLdn, Spectre	SAT
0030z	10/06[759 814 32 87307 ... 84861 814 32 00000(f)]0040z Very strong	(9m49s)	PLdn, Spectre	SUN

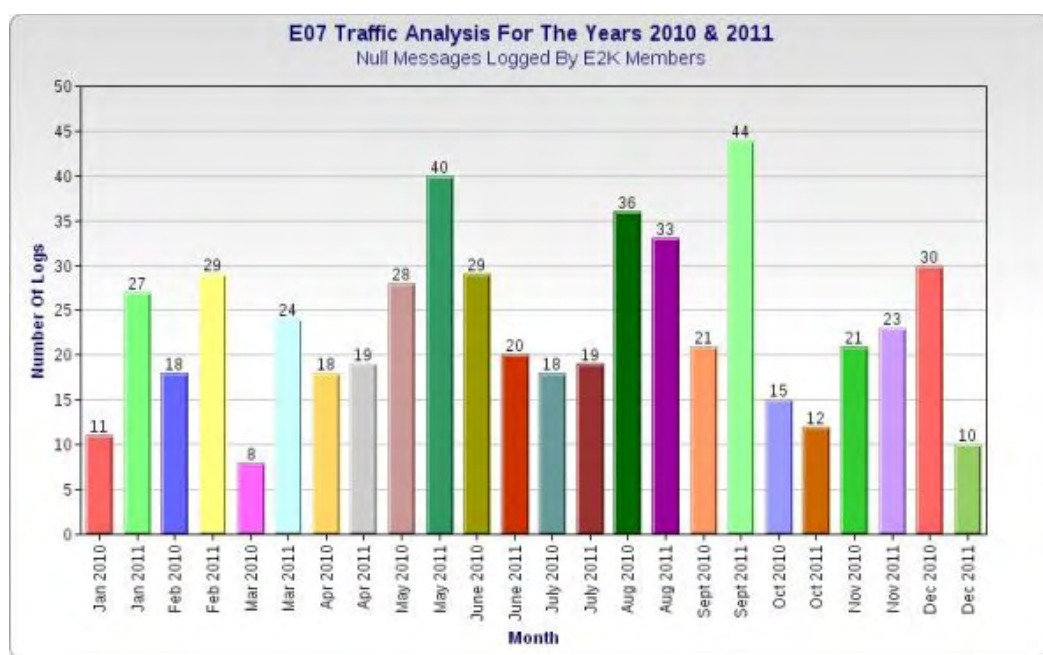
E06 8143/7608kHz 0030/0130z 09/10/06 Transcript:

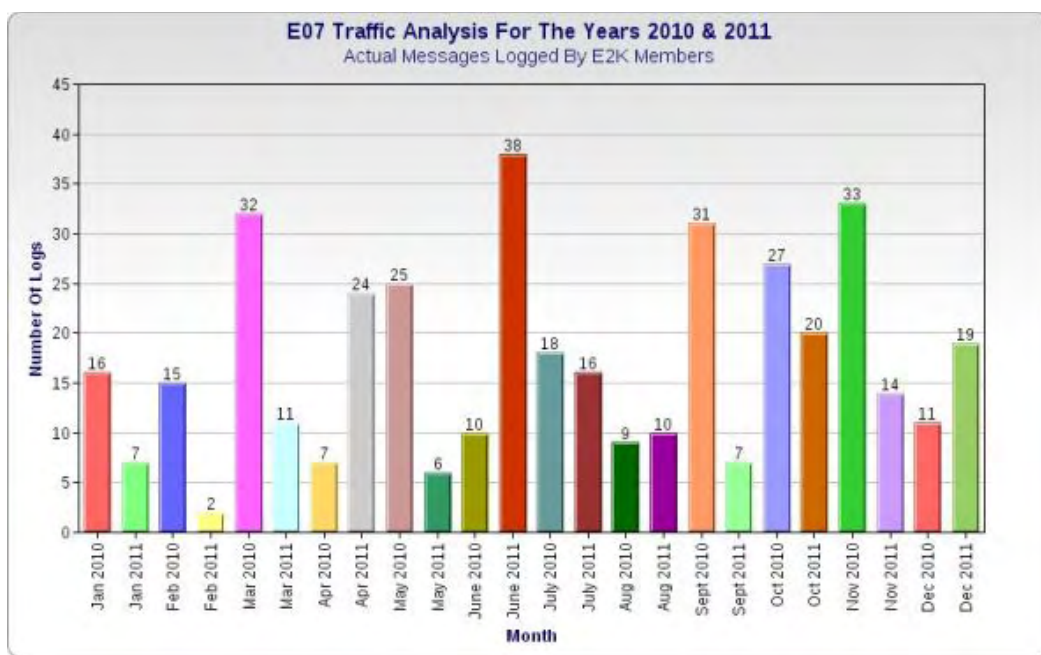
759 814 32  
87307 12936 00152 59659 39588 02505 14896 98261 08883 89660  
50493 57253 18540 59782 51964 27434 26053 92781 56159 54454  
41675 24970 44802 22791 42069 86012 73027 17170 71146 71918  
78085 84861  
814 32 00000      *Courtesy Spectre*

14710kHz0500z	08/06[328 746 105] Strong signal, strong noise, fading, no copy..	FR	FRI
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## E07 [1B]

Before we go to the logs here are two histograms showing E07 vs months ove 2010 and 2011. All sendings are used, including repeats, data from e2k newsletters.  
Txn Spectre





#### **RNGB's Logs:**

##### **E07 May log:**

Weds 2nd	19:20	13412	'845' 1 957 100 46104 36468 26818 63047 88250.....33974
	20:00	8173	'147' 000
Thursday 3rd	20:10	11539	'553' 1 790 49 17390 89371 67527 41611 72381.....
Sunday 6th	17:20	12088	'301' 1 985 136 08440 69676 30611 55288.....
Monday 7th	19:00	14812	'845' 1 957 100 46104 36468 26818 63047 88250.....33974
Wednesday 9th	19:00	14812	'845' 1 957 100 46104 36468 26818 63047 88250.....33974
Thursday 10th	20:30	10547	'553' 1 790 49 17390 89371 67527 41611 72381.....
Sunday 13th	17:00	13388	'301' 1 518 68 91401 52153 11858 99940.....
Monday 14th	19:00	14812	'845' 1 198 85 38962 67806 01560 60909.....26803
Wednesday 16th	17:00	13388	'301' 1 518 68 91401 52153 11858 99940.....
Sunday 20th	17:20	12088	'301' 1 876 39 46762 61495 05920 57576.....23450
Saturday 26th	08:00	12177	'148' 000

##### **E07 June log:**

Wednesday 6th	17:00	13468	'414' 1 714 68 56982 90435 80094 94334.....
	17:40	10436	'414' 1 714 68 56982 90435 80094 94334.....
Wednesday 20th	17:20	12141	'414' 1 238 61 18209 05551 53111 32256.....
Wednesday 27th	17:00	13468	'414' 1 452 70 90556 01557 72316 98443.....
	20:00	8173	'147' 000

#### **PoSW's logs and analysis:**

No big surprises with the E07 English speaking OM, same frequencies used as in the same month for the past few years. The low modulation problem comes and goes.

##### **Sunday + Wednesday Schedule, 1700 UTC Start:-**

6-May-12, Sunday:- 1700 UTC, 13,388 kHz, "301 301 301 1", DK/GC "985 136" x 2, S9 signal with good audio.  
1720 UTC, 12,088 kHz, second sending, strong signal with good audio over-riding broadcasters inside the 25 metre band.  
1740 UTC, 10,118 kHz, third sending, surrounded by 30 metre amateur CW stations.

13-May-12, Sunday:- 1700 UTC, 13,388 kHz, "301 301 301 1", DK/GC "518 68" x 2. Strong signal, good audio.  
1720 UTC, 12,088 kHz, second sending, S9+ with good audio.  
1740 UTC, 10,118 kHz, third sending, again excellent signal no doubt annoying all the amateur CW operators.

20-May-12, Sunday:- 1700 UTC, 13,388 kHz, "301 301 301 1", DK/GC "876 39" x 2.  
Strong signal with good audio, interference from a strong FSK/data type signal on 13,390, removed by using the receiver in LSB mode.  
1720 UTC, 12,088 kHz, second sending, strong signal flattening the BC opposition.  
1740 UTC, 10,118 kHz, third sending, strong signal surrounded by amateur CW.

27-May-12, Sunday:- 1704 UTC, 13,388 kHz, missed the start, full message in progress, ended "000 000" just before 1709z. Strong signal with good audio.  
1720 UTC, 12,088 kHz, "301 301 301 1", DK/GC "425 63" x 2.  
1740 UTC, 10,118 kHz, third sending with the usual CW for company.



3-June-12, Sunday:- 1700 UTC, 13,468 kHz, “414 414 414 1”, DK/GC “714 68” x 2. S9+ with good audio,  
 1720 UTC, 12,141 kHz, second sending, S9+ but audio lower than first sending.  
 1740 UTC, 10,436 kHz, third sending, S8 carrier, audio low and carrier appeared to be fluctuating at a regular rapid rate as though suffering from some kind of low frequency instability

10-June-12, Sunday:-1700 UTC, 13,468 kHz, “414 414 414 1”, DK/GC “580 38” x 2.  
 Strong signal with almost broadcast – quality audio. Short message, all done by just after 1706z.  
 1720 UTC, 12,141 kHz, second sending, strong signal.  
 1740 UTC, 10,436 kHz, third sending, weakest of the three.

20-June-12, Wednesday:- 1700 UTC, 13,468 kHz, “414 414 414 1”, DK/GC “238 61” x 2.  
 S9+ signal with good audio.  
 1720 UTC, 12,141 kHz and 1740 10,436 kHz, repeats, strong signals with good audio.

#### Monday + Wednesday Schedule, 1900 UTC Start:-

2-May-12, Wednesday:- 1900 UTC, 14,812 kHz, “845 845 845 1”, DK/GC “957 100” x 2.  
 Strong signal with good audio.  
 1920 UTC, 13,412 kHz, second sending, good signal over-riding a strong “XJT”.  
 1940 UTC, 11,512 kHz, third sending, very strong S9+ with excellent modulation.

7-May-12, Monday:- 1920 UTC, 13,412 kHz, missed 1900z sending, “845” and “957 100” again, S9+ over-riding “XJT”.  
 1940 UTC, 11,512 kHz, third sending, S9+ with excellent audio.

21-May-12, Monday:- 1900 UTC, 14,812 kHz, “845 845 845 000”, S9 with reasonable audio, not as good as at the start of the month.  
 1920 UTC, 13,412 kHz, second sending, flattened by the strong “XJT”.

30-May-12, Wednesday:- 1900 UTC, 14,812 kHz, “845 845 845 000”.

4-June-12, Monday:- 1920 UTC, 14,624 kHz, second sending, “865 865 865 000”, low audio.

6-June-12, Wednesday:- 1900 UTC, 15,824 kHz, should be the first sending, flattened by S9+ BC station 1 kHz up, unreadable.  
 1920 UTC, 14,624 kHz, “865 865 865 000”, audio low but readable.

20-June-12, Wednesday:- 1920 UTC, 14,624 kHz, “865 865 865 000”, peaking S9, audio low but readable.

#### Thursday Schedule, 2010 UTC Start:-

10-May-12:- 2010 UTC, 11,539 kHz, very low modulation, unreadable.  
 2030 UTC, 10,547 kHz, “553 553 553 1”, DK/GC “790 49” x 2, low audio, difficult copy.  
 2050 UTC, 9,388 kHz, third sending, low audio.

17-May-12:- 2010 UTC, 11,539 kHz, “553 553 553 000”. S9+ with good audio, over-riding broadcast stations, much better than last week.  
 2030 UTC, 10,547 kHz, second sending, S9+ with good audio.

31-May-12:- 2010 UTC, 11,539 kHz, “553 553 553 1”, DK/GC “754 47” x 2, readable through broadcast interference.  
 2030 UTC, 10,547 kHz, second sending and 2050 UTC, 9,388 kHz, third sending.

7-June-12:- 2010 UTC, 12,213 kHz, “273 273 273 000”, S9 to S9+, reasonable audio.  
 2030 UTC, 10,714 kHz, second sending, interference from a strong idling FSK signal on the LF side, removed by using the receiver in USB mode.

14-June-12:- 2010 UTC, 12,213 kHz, “273 273 273 000”, S9+ with good audio.  
 2030 UTC, 10,714 kHz, second sending, the FSK signal still there a bit lower down.

#### Wednesday E07a SSB Schedule, 2000 UTC Start:-

2-May-12:- 2020 UTC, 7,473 kHz, second sending, “147 147 147 000”, S9+ SSB signal over-riding broadcast stations.

23-May-12:- 2000 UTC, 8,173 kHz, “147 147 147 000”, very strong.  
 2020 UTC, 7,473 kHz, second sending, over-riding BC stations.

6-June-12:- 2000 UTC, 8,173 kHz and 2020 UTC, 7,473 kHz, “147 147 147 000”, the usual S9+ signals.

20-June-12:- 2000 UTC, 8,173 kHz, a full message this evening, “147 147 147 1 30704”, DK/GC “538 77” x 2. S9+ as always.  
 2020 UTC, 7,473 kHz, second sending winning the fight with broadcasters.  
 2040 UTC, 5,773 kHz, third sending, S9+ to complete the full set

#### Onto others' logs

#### May 2012:

9388kHz2050z	03/05[553 1 790 49 17390 ... 82472 000 000] Strong	(7m34s)	PLdn	THU
2050z	24/05[553 1 754 47 90n84 ... 26582 000 000] Fair QRN3	(7m19s)	FR, PLdn	THU
2050z	31/05[553 1 754 47.....000 000]2057z S7 fading		M8	THU

553 1 754 47  
 90\*84 41771 15573 24298 00164 1514\* 72248 52782 \*\*822 \*5839  
 91746 29407 00972 23142 67254 89867 19495 54657 93\*95 06947  
 54896 43789 96014 31778 39043 590\*5 37\*31 40\*\*2 76481 172\*\*  
 43118 7128\* 3\*137 10386 19758 83893 49518 04517 03812 73620  
 49419 28768 74837 45793 82834 44574 26582 000 000 Courtesy FR

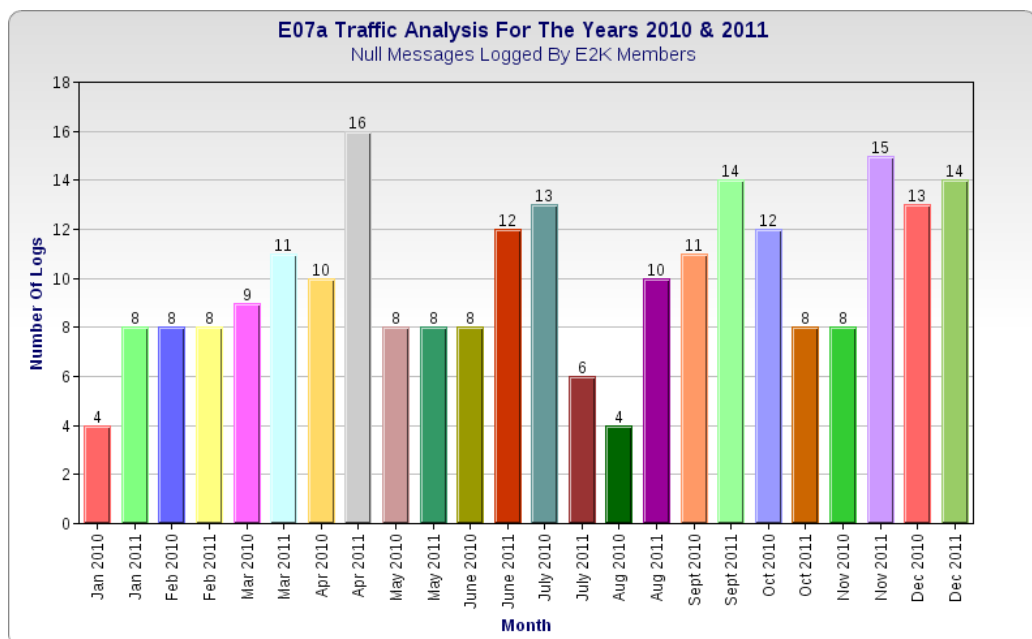
10118kHz1740z	02/05[301 1 548 42 10213 ... 44260 000 000] Weak, CWQRM2 briefly	(6m52s)	PLdn	WED
1740z	06/05[301 1 885 136 08440 ... 89127 000 000] Fair	(16m16s)	PLdn	SUN
1740z	09/05[301 1 885 136 08440 ... 89127 000 000] Fair	(16m16s)	Spectre, PLdn	WED
1740z	13/05 Only heard strong noise		FR	SUN
1740z	16/05[301 1 518 68 91401 ... 46706 000 000] QRM4/5	(9m25s)	PLdn	WED
1740z	20/05[301 1 876 39 46762 ... 23450 000 000] Fair, CWQRM2, QSB3towards end	(6m31s)	PLdn	SUN
1740z	27/05[301 1 425 63 74862 ... 63676 000 000]Weak, QRM3	(8m55s)	PLdn	SUN
10547kHz2030z	03/05[553 1 790 49 17390 ... 82472 000 000] Strong	(7m34s)	PLdn	THU
2030z	17/05[553 000] Very strong signal, weak noise		FR	THU
2030z	24/05[553 1 754 47 90n84 ... 26582 000 000] Weak QRN3	(7m19s)	FR, PLdn	THU
2030z	31/05[553 1 754 47.....000 000]2037z S9+10		M8	THU
11512kHz1940z	02/05[845 1 957 100 46104 ... 33974 000 000] Strong	(12m38s)	SpectrePLdn	WED
1940z	07/05[845 1 957 100 46104 ... 33974 000 000] Fair, QSB2	(12m38s)	SpectrePLdn	MON
1940z	09/05[845 1 957 100 46104 ... 33974 000 000] Fair, BCQRM2	(12m38s)	PLdn	WED
1940z	14/05[845 1 198 85 38962 ... 26803 000 000] Strong	(11m01s)	PLdn	MON
1940z	16/05[845 1 198 85 38962 ... 26803 000 000] Fair, QRN2	(11m01s)	PLdn, FR	WED
1940z	23/05[845 1 791 25 .....000 000] Fair, QRN3 QSB3	(5m05s)	PLdn	WED
1940z	28/05[845 1 791 25 07644 ... 80084 000 000] Strong	(5m04s)	PLdn	MON
1940z	30/05[845 1 791 25 07644 ... 80084 000 000] Strong	(5m04s)	PLdn	WED
11539kHz2010z	03/05[553 1 790 49 17390 ... 82472 000 000] Strong, HETQRM2	(7m34s)	PLdn	THU
	553 1 750 49			
	17390 89371 67527 41611 72381			
	15827 78589 69042 55548 09612			
	12726 23140 09747 87416 56858			
	40896 37215 93544 86191 22315			
	07673 72527 92752 64207 63480			
	34808 66719 30049 61907 72245			
	07621 89162 65475 60450 69495			
	73740 10791 31792 53183 62545			
	98570 19502 85678 41939 38852			
	79185 79881 20821 82472			
2010z	17/0. 000 000 <i>Courtesy FR</i>	(2m13s)	HJH, FR, PLdn	THU
2010z	24/0. 000 000]Fair, 1kHztone BCQRM3	(7m19s)	FR, PLdn	THU
2010z	31/05[553 1 754 47.....000 000]2017z S9 QRM		M8	THU
12088kHz1720z	02/05[301 1 548 42 10213 ... 44260 000 000] Fair, QRN3	(6m52s)	PLdn	WED
1720z	06/05[301 1 885 136 08440 ... 89127 000 000] Fair	(16m16s)	PLdn	SUN
1720z	09/05[301 1 885 136 08440 ... 89127 000 000] Fair	(16m16s)	Spectre, PLdn	WED
	E07 13388/12088/10118kHz 1700/1720/1740z 09/05 Transcript:			
	301 1 985 136			
	08440 69696 30611 55288 15329 93290 70420 38437 05289 28016			
	15065 28371 59590 34299 04295 20497 09976 92082 04143 81303			
	25285 16807 01858 69220 55392 69357 17728 30402 85949 60750			
	20906 57132 33681 14412 55330 44170 44617 28748 52817 65008			
	36467 00396 41689 67416 38513 71942 26531 38931 85237 28790			
	35149 79281 17445 93451 92752 20492 99738 16882 58837 19109			
	74382 50482 37980 28123 50548 25762 70018 21487 06386 88250			
	52757 94901 12477 91254 69157 96435 50399 99954 51309 42406			
	67135 20919 48014 35500 50122 81862 73497 54418 39912 63577			
	13057 03591 01538 61283 27925 75647 90828 92855 78580 62339			
	85456 35158 12901 23916 36272 05073 72770 55773 82510 87654			
	41393 14136 46247 53785 68221 73840 36527 73100 13289 48567			
	07820 85412 93118 26207 71736 23418 49150 32884 97600 21082			
	45851 21001 88801 85530 71116 89122 000 000 <i>Courtesy Spectre</i>			
1720z	13/05[301 1 518 68 91401 ... 46786 000 000] Very strong signal, bleeding, weak noise		FR	SUN
1720z	16/05[301 1 518 68 91401 ... 46706 000 000] Fair, BCQRM3	(9m25s)	PLdn	WED
1720z	20/05[301 1 876 39 46762 ... 23450 000 000] Weak	(6m31s)	PLdn, FR	SUN
1720z	27/05[301 1 425 63 74862 ... 63676 000 000]Weak	(8m55s)	PLdn	SUN
13388kHz1700z	02/05[301 1 548 42 10213 ... 44260 000 000] Fair, QRN3	(6m52s)	PLdn	WED
1700z	06/05[301 1 885 136 08440 ... 89127 000 000] Strong	(16m16s)	PLdn	SUN
1700z	09/05[301 1 985 136 08440 ... 89122 000 000] 1716z Fair QRN2 QSB3		Spectre	WED
	E07 13388/12088/10118kHz 1700/1720/1740z 09/05 Transcript:			
	301 1 985 136			
	08440 69696 30611 55288 15329 93290 70420 38437 05289 28016			
	15065 28371 59590 34299 04295 20497 09976 92082 04143 81303			
	25285 16807 01858 69220 55392 69357 17728 30402 85949 60750			
	20906 57132 33681 14412 55330 44170 44617 28748 52817 65008			
	36467 00396 41689 67416 38513 71942 26531 38931 85237 28790			
	35149 79281 17445 93451 92752 20492 99738 16882 58837 19109			
	74382 50482 37980 28123 50548 25762 70018 21487 06386 88250			
	52757 94901 12477 91254 69157 96435 50399 99954 51309 42406			
	67135 20919 48014 35500 50122 81862 73497 54418 39912 63577			
	13057 03591 01538 61283 27925 75647 90828 92855 78580 62339			
	85456 35158 12901 23916 36272 05073 72770 55773 82510 87654			
	41393 14136 46247 53785 68221 73840 36527 73100 13289 48567			
	07820 85412 93118 26207 71736 23418 49150 32884 97600 21082			
	45851 21001 88801 85530 71116 89122			
	000 000 <i>Courtesy Spectre</i>			

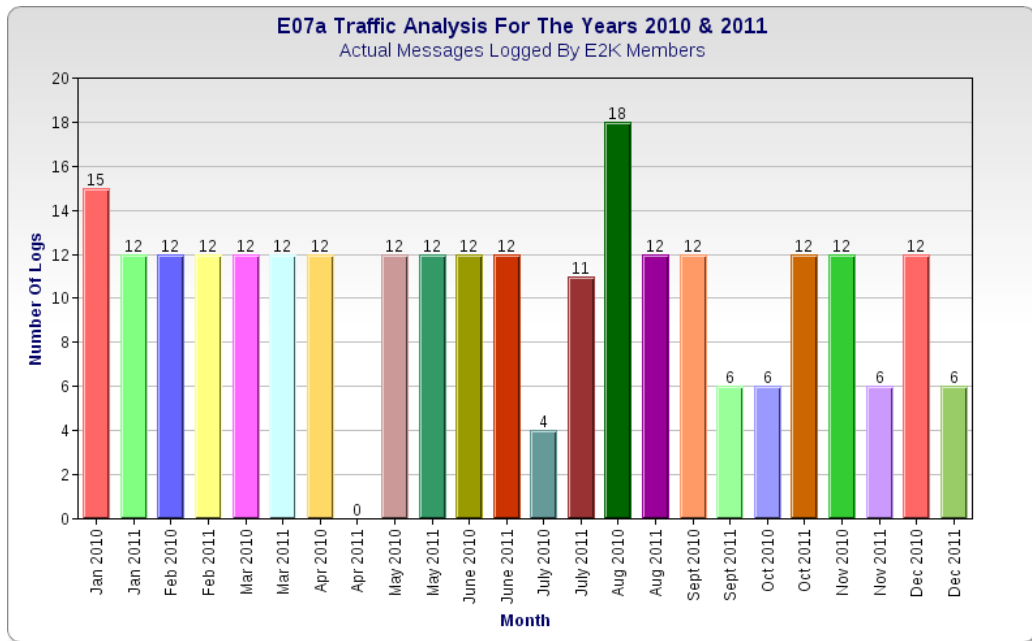
1700z	13/05[301 1 518 68 91401 ... 46786 000 000] Strong signal but low audio, QRM, QSB	FR	SUN	
	301 1 518 68 91401 52153 11858 99930 58949 27831 44382 71239 40506 60107 02286 15438 12752 71322 92923 78256 33396 65834 19161 93410 42534 50117 86827 50583 57962 70479 05235 12068 76376 77516 39247 80518 33535 79925 70295 10177 08238 06250 21079 11346 06209 19713 31663 70700 45187 44275 10401 93395 24008 72682 69860 72728 87090 33170 37354 08147 40204 07584 69581 19677 82265 10084 42088 97276 81196 73505 10290 46786 000 000 Courtesy FR			
1700z	16/05[301 1 518 68 91401 ... 46706 000 000] Strong	(9m25s)	PLdn	WED
1700z	20/05[301 1 876 39 46762 ... 23450 000 000] Fair (6m31s) PLdn, FR SUN			
	301 876 39 46762 91495 05920 57576 24079 39412 98312 18097 59761 81296 81315 42168 02352 47797 26560 47100 42442 49098 02567 87736 61320 42357 21006 64395 36962 58084 10282 84620 73336 97810 16478 10945 49895 46590 10598 01208 21878 17377 23450 000 000 Courtesy FR			
1700z	27/05[301 1 425 63 74862 ... 63676 000 000]Weak	(8m55s)	PLdn	SUN
13412kHz1920z	02/05[845 1 957 100 46104 ... 33974 000 000] XJTQRM4, odd characters	(12m38s)	Spectre,PLdn	WED
1920z	07/05[845 1 957 100 46104 ... 33974 000 000] Fair, XJTQRM2 QSB2	(12m38s)	Spectre,PLdn	MON
1920z	09/05 XJTQRM5	(12m38s)	PLdn	WED
1920z	14/05[845 1 198 85 38962 ... 26803 000 000] Strong, XJTQRM3	(11m01s)	HJH, PLdn	MON
	845 1 198 85 38962. 67806. 01560. 60909. 30234. 94413. 76261. 64205. 15411. 84009. 05276. 01791. 62732. 84807. 98108. 02113. 27129. 15667. 23905. 96290. 61309. 35814. 23365. 09102. 54027. 87308. 44549. 32501. 93388. 00390. 86931. 18031. 69764. 84385. 61537. 73480. 59392. 39218. 70982. 38119. 05080. 72894. 19029. 57593. 64556. 62056. 72198. 35898. 07233. 23484. 63560. 34273. 71825. 37707. 54485. 16878. 80809. 58254. 91124. 56286. 03969. 12457. 75902. 61489. 07908. 67564. 76967. 32133. 41282. 27139. 05755. 84775. 02780. 98276. 10736. 57125. 66577. 85668. 66006. 67414. 52502. 35826. 75407. 92009. 26803. 000. 000. Courtesy HJH			
14812kHz1900z	02/05[845 1 957 100 46104 ... 33974 000 000] Weak, noisy	(12m38s)	Spectre,PLdn	WED
1900z	07/05[845 1 957 100 46104 ... 33974 000 000] Fair, QSB3/4	(12m38s)	Spectre,PLdn	MON
1900z	09/05[845 1 957 100 46104 ... 33974 000 000] Very strong	(12m38s)	PLdn	WED
	E07 14812/13412/11512kHz 1900/1920/1940z 02/07/05 Transcript: 845 1 957 100 46104 36468 26818 63047 88250 29135 20285 15344 55147 92968 04471 59187 14598 52015 29600 17120 92405 81925 03544 58531 03802 88040 21117 29967 82028 46056 95068 13672 27544 88143 30743 13724 19841 84348 43176 04709 17269 90951 19067 57697 79387 50742 25544 43055 51966 73615 00117 23891 84691 59476 33279 67193 95250 49975 99932 56206 26941 89037 38042 39143 88300 58084 12446 82785 35966 92964 04247 54307 22031 22436 06393 39820 62955 06338 68083 25209 65331 17731 60577 89279 29649 36310 62469 45698 61391 37979 38344 95477 83015 12457 35485 21285 54291 73640 26966 68076 14895 08217 52392 33974 000 000 Courtesy Spectre			
1900z	14/05[845 1 198 85 38962 ... 26803 000 000] Strong	(11m01s)	PLdn	MON
1900z	16/05[845 1 198 85 38962 ... 26803 000 000] Strong carrier, weak audio	(11m01s)	PLdn, FR	WED
1900z	21/05[845 000] Fair	(2m13s)	M8, PLdn	MON
1900z	28/05[845 1 791 25 07644 ... 80084 000 000] Strong	(5m04s)	PLdn	MON
1900z	30/05[845 1 791 25 07644 ... 80084 000 000] Fair	(5m04s)	PLdn	WED
E07				
June 2012:				
9347kHz2050z	21/06[273 1 566 47 77148 ... 82674 000 000] Fair, QRM3	(7m29s)	PLdn	THU
2050z	28/06[273 1 566 47 77148 ... 82674 000 000] Weak QRN3	(7m29s)	PLdn	THU
10436kHz1740z	03/06[414 1 714 68 56982 ... 87435 000 000]	(9m29s)	M8, PLdn	SUN
1740z	06/06[414 1 714 68 56982 ... 87435 000 000] Fair, QRM2	(9m29s)	PLdn	WED
1740z	10/06[414 1 580 38 58687 ... 84117 000 000] Very strong signal, weak/moderate noise		FR	SUN
	414 1 580 38 58687 10543 38557 77931 20480 01689 92314 16601 12926 29569 72742 78298 99286 66033 65637 69636 70508 35928 39435 09990 91244 03034 15423 86394 12897 24804 21508 90071 01903 13742 56663 02592 05681 79929 55754 91865 52468 84117 000 000 Courtesy FR			
1740z	13/06[414 1 580 38 58687 ... 84111 000 000] Fair	(6m24s)	PLdn, CS	WED
1740z	17/06[414 1 238 61 18209 ... 60254 000 000]Strong signal, moderate noise		FR	SUN
1740z	24/06[414 1 452 70 .....] Audio fair with some fading and QRM		HJH	SUN

1740z	27/06[414 1 452 70 90556 ... 23958 000 000] Fair	(9m38s)	PLdn	WED
10714kHz 2030z	07/06[273 000] Weak	(2m13s)	PLdn	THU
2030z	14/06[273 000] Very weak	(2m13s)	HJH, PLdn	THU
2030z	21/06[273 1 566 47 77148 ... 82674 000 000] Weak	(7m29s)	PLdn	THU
2030z	28/06[273 1 566 47 77148 ... 82674 000 000] Weak QRN3	(7m29s)	PLdn	THU
12141kHz1720z	03/06[414 1 714 68 56982 ... 87435 000 000]	(9m29s)	M8, PLdn	SUN
1720z	06/06[414 1 714 68 56982 ... 87435 000 000] Fair, HETQRM3 at end	(9m29s)	PLdn	WED
1720z	10/06 [414 1 580 38 58687 ... 84117 000 000] Strong signal, moderate, occasional fading		FR	SUN
1720z	13/06[414 1 580 38 58687 ... 84111 000 000] Fair	(6m24s)	CS,PLdn	WED
1720z	17/06[414 1 238 61 18209 ... 60254 000 000]Strong signal, moderate/strong noise, fading		FR	SUN
414 1 238 61 18209 05551 53151 32256 60023 18010 51004 07684 92668 83617 88108 77144 48209 10749 77213 02319 26409 14874 09512 32185 50163 11495 88505 97446 01959 24402 88921 02314 18873 23764 93277 99397 51492 03909 83854 89915 63588 93726 21828 00492 18938 35345 43573 80018 95820 64396 23051 86834 01554 31572 04393 08615 99518 22290 4303073745 15811 17889 81541 24995 60254 000 000 <i>Courtesy FR</i>				
1720z	24/06[414 . ... 70 .....] Audio weak QRM3 QSB3		PLdn	SUN
1720z	27/06[414 1 452 70 90556 ... 23958 000 000] Very strong	(9m38s)	PLdn	WED
12213kHz 2010z	07/06[273 000] Weak	(2m13s)	PLdn	THU
2010z	14/06[273 000] Fair, QRN2	(2m13s)	HJH, PLdn	THU
2010z	21/06[273 1 566 47 77148 ... 82674 000 000] Fair	(7m29s)	PLdn	THU
2010z	28/06[273 1 566 47 77148 ... 82674 000 000] Strong QRN3	(7m29s)	PLdn	THU
13468kHz1700z	03/06[414 1 714 68 56982 ... 87435 000 000]	(9m29s)	M8, PLdn	SUN
1700z	06/06[414 1 714 68 56982 ... 87435 000 000] Fair	(9m29s)	PLdn	WED
1700z	10/06[414 1 580 38 58687 ... 84117 000 000] Strong signal, weak/moderate noise, fading		FR	SUN
1700z	13/06[414 1 580 38 58687 ... 84111 000 000] Strong	(6m24s)	CS,PLdn	WED
1700z	17/06[414 1 238 61 18209 ... 60254 000 000] Weak, very strong noise, fading		FR	SUN
1700z	27/06[414 1 452 70 90556 ... 23958 000 000] Fair	(9m38s)	PLdn	WED
14624kHz1920z	04/06[865 000] Fair		HJH, PLdn	MON
1920z	06/06[865 000] Weak audio, strong carrier	(2m13s)	PLdn, HJH	WED
1920z	11/06[865 000] Weak audio, strong carrier	(2m13s)	PLdn, HJH	MON
1920z	13/06[865 000] Fair	(2m13s)	FR, PLdn	WED
1920z	18/06[865 000] Fair, QRN2	(2m13s)	HJH, PLdn	MON
1920z	20/06[865 000] Weak audio, strong carrier	(2m13s)	PLdn	WED
1920z	25/06[865 000]1922z S9		M8	MON
1920z	27/06[865 000] Weak audio, strong carrier	(2m13s)	PLdn	WED
15824kHz1900z	04/06[865 000] BCQRM4		PLdn	MON
1900z	06/06[865 000] BCQRM4	(2m13s)	PLdn	WED
1900z	11/06[865 000] Fair, BCQRM3/4	(2m13s)	PLdn	MON
1900z	13/06 BCQRM5		PLdn	WED
1900z	18/06[865 000] odd characters BCQRM4	(2m13s)	PLdn	MON
1900z	20/06 BCQRM5		PLdn	WED
1900z	25/06[865 000]1902z S1 QRM		M8	MON
1900z	27/06 BCQRM5		PLdn	WED

### E07a

Histograms illustrating message traits over 2010 and 2011[Tnx Spectre].





### May 2012:

5773kHz2040z	09/05[147 1 11512 362 61 81275 ... 78682 000 000] Very strong Rpt Msg sent 18/04	(7m36s)	Spectre,PLdn	WED
2040z	16/05[147 1 30209 207 55 78572 ... 91879 000 000] Very strong, QRM2	(7m06s)	PLdn	WED
7437kHz0430z	03/05[411 000] Very strong	(2m13s)	Spectre,PLdn	
THU				
0430z	10/05[411 1 11512 362 61 81275 ... 78682 000 000] Very strong Rpt Msg sent 19/04	(7m36s)	Spectre,PLdn	THU
0430z	17/05[411 1 30209 207 55 78572 ... 91879 000 000] Strong	(7m06s)	PLdn	THU
0430z	24/05[411 000] Very strong	(2m13s)	Spectre,PLdn	THU
0430z	31/05[411 000] Very strong	(2m13s)	Spectre,PLdn	THU
7473kHz2020z	02/05[147 000] Strong, BCQRM3	(2m13s)	Spectre,PLdn	WED
2020z	09/05[147 1 11512 362 61 81275 ... 78682 000 000] Very strong BCQRM Rpt Msg sent 18/04	(7m36s)	Spectre,PLdn	WED
2020z	16/05[147 1 30209 207 55 78572 ... 91879 000 000] Very strong, BCQRM2	(7m06s)	PLdn	WED
147 1 30209 207 55 78572 44140 26430 65952 65926 13402 60121 84215 85786 93386 26095 51056 64764 74378 77463 54934 13240 86886 94813 49107 02855 07243 69428 46634 10253 81444 65174 70109 08642 09838 22033 64795 44408 76204 80585 55527 41397 20088 92176 98495 26300 42432 87444 71519 97485 99499 72280 43583 63847 48649 79917 45191 91297 89821 91879 000 000 <i>Courtesy FR</i>				
2020z	23/05[147 000] Very strong	(2m13s)	Spectre,PLdn	WED
2020z	30/05[147 000] Very strong	(2m13s)	Spectre,PLdn	WED
8137kHz0450z	03/05[411 000] Very strong	(2m13s)	Spectre,PLdn	THU
0450z	10/05[411 1 11512 362 61 81275 ... 78682 000 000] Very strong Rpt Msg sent 19/04	(7m36s)	Spectre,PLdn	THU
0450z	17/05[411 1 30209 207 55 78572 ... 91879 000 000] Strong	(7m06s)	PLdn	THU
0450z	24/05[411 000] Very strong	(2m13s)	Spectre,PLdn	THU
0450z	31/05[411 000] Very strong	(2m13s)	Spectre,PLdn	THU
8173kHz2000z	02/05[147 000] Very strong	(2m13s)	Spectre,PLdn	WED
2000z	09/05[147 1 11512 362 61 81275 ... 78682 000 000] Very strong Rpt Msg sent 18/04	(7m36s)	Spectre,PLdn	WED
2000z	16/05[147 1 30209 207 55 78572 ... 91879 000 000] Very strong, PulseQRM2	(7m06s)	PLdn	WED
2000z	23/05[147 000] Strong, XJTQRM2	(2m13s)	Spectre,PLdn	WED
2000z	30/05[147 000] Strong, QRN2	(2m13s)	Spectre,PLdn	WED
9137kHz 0510z	10/05[411 1 11512 362 61 81275 ... 78682 000 000] Strong Rpt Msg sent 19/04	(7m36s)	Spectre,PLdn	THU
0510z	17/05[411 1 30209 207 55 78572 ... 91879 000 000] Very strong	(7m06s)	PLdn	THU

E07a 8173/7473/5773kHz 2000/2020/2040z 09/05 Transcript:

147 1 11512 362 61  
81275 22672 21295 58263 77208 35139 48044 27451 02527 91282  
35142 20070 86244 41468 77073 02736 26371 86420 19022 21571  
99305 15673 82099 64424 28148 46844 58163 15976 01229 57394  
19583 68971 34561 37967 30415 41820 91205 81994 56877 53516  
98318 28376 07112 46007 06118 05864 04887 48792 67391 48558  
42846 81241 15921 97195 36749 75213 70552 63943 75164 10647  
78682 000 000  
*Courtesy Spectre*

E07a 7437/8137/9137kHz 0430/0450/0510z 10/05 Transcript:

147 1 11512 362 61  
81275 22672 21295 58263 77208 35139 48044 27451 02527 91282  
35142 20070 86244 41468 77073 02736 26371 86420 19022 21571  
99305 15673 82099 64424 28148 46844 58163 15976 01229 57394  
19583 68971 34561 37967 30415 41820 91205 81994 56877 53516  
98318 28376 07112 46007 06118 05864 04887 48792 67391 48558  
42846 81241 15921 97195 36749 75213 70552 63943 75164 10647  
78682 000 000  
*Courtesy Spectre*

12177kHz0800z	12/05[148 1 13239 nnn nn nnnnn ... 80659 000 000] Very weak. QRM4	(7m16s)	PLdn	SAT
0800z	19/05[148 000] Weak	(2m13s)	PLdn	SAT
0800z	26/05[148 000] Weak	(2m13s)	PLdn	SAT
13477kHz0820z	12/05[148 1 13239 nnn nn nnnnn ... 80659 000 000] Very weak. QRM4	(7m16s)	PLdn	SAT
0820z	19/05[148 000] Fair QRM2	(2m13s)	PLdn	SAT
0820z	26/05[148 000] Weak	(2m13s)	PLdn	SAT
14877kHz0840z	12/05[148 1 13239 nnn nn nnnnn ... 80659 000 000] Very weak. QRM3	(7m16s)	PLdn	SAT
<b><u>June 2012:</u></b>				
5773kHz2040z	13/06[147 1 30209 207 55 78572 ... 91879 000 000] Very strong	(7m06s)	FR, PLdn	WED
2040z	20/06[147 1 30704 538 77 12210 ... 17664 000 000]Strong	(8m54s)	HJH, PLdn	WED
7437kHz0430z	07/06[411 000] Very strong	(2m13s)	PLdn	THU
0430z	14/06[411 1 30209 207 55 78572 ... 91879 000 000] Very strong	(7m06s)	PLdn	THU
0430z	21/06[411 1 30704 538 77 12210 ... 17664 000 000]Strong	(8m54s)	PLdn	THU
0430z	28/06[411 000] Very strong	(2m13s)	PLdn	THU
7473kHz2020z	06/06[147 000] Very strong	(2m13s)	PLdn	WED
2020z	20/06[147 1 30704 538 77 12210 ... 17664 000 000]Strong, BCQRM3	(8m54s)	HJH, PLdn	WED
2020z	27/06[147 000] Very strong	(2m13s)	HJH, PLdn	WED
8137kHz0450z	07/06[411 000] Very strong	(2m13s)	PLdn	THU
0450z	14/06[411 1 30209 207 55 78572 ... 91879 000 000] Very strong	(7m06s)	PLdn	THU
0450z	21/06[411 1 30704 538 77 12210 ... 17664 000 000]Strong	(8m54s)	PLdn	THU
0450z	28/06[411 000] Very strong	(2m13s)	PLdn	THU
8173kHz2000z	06/06[147 000] Strong, XJTQRM2	(2m13s)	PLdn	WED
2000z	13/06[147 1 30209 207 55 78572 ... 91879 000 000] Strong	(7m06s)	PLdn	WED
2000z	20/06[147 1 30704 538 77 12210 ... 17664 000 000]Strong	(8m54s)	PLdn	WED
2000z	27/06[147 000] Strong, XJTQRM2	(2m13s)	PLdn	WED
9137kHz0510z	14/06[411 1 30209 207 55 78572 ... 91879 000 000] Very strong	(7m06s)	PLdn	THU
0510z	21/06[411 1 30704 538 77 12210 ... 17664 000 000]Strong	(8m54s)	PLdn	THU
13373kHz0800z	09/06[338 000] Strong	(2m13s)	PLdn	SAT
0800z	16/06 Unreadable		PLdn	SAT
0800z	23/06[338 000] Weak	(2m13s)	GD, PLdn	SAT
14373kHz0820z	09/06[338 000] Strong	(2m13s)	GD, PLdn	SAT
0820z	16/06 Unreadable		PLdn	SAT
0820z	23/06[338 000] Weak	(2m13s)	PLdn	SAT

## **E110000**

### **E11 May/June log:**

6280kHz	0820z	03/05 [438/00] Weak	RNGB	WED
	0820z	07/05 [438/00] Fair	RNGB	MON
	0820z	14/05 [438/00] Weak	RNGB	MON
	0820z	21/05 [438/00]	RNGB	MON
	0820z	02/06 [438/00] Weak + QRM	RNGB	MON
	0820z	18/06 [438/00] Weak	RNGB	MON
	0820z	25/06 [438/00] Out 0823z S1	Malc	MON
	0820z	28/06 [438/00] Weak	RNGB	THU
8088kHz	1730z	10/05 [416/00] Good	RNGB	THU
	1730z	17/05 [416/00] Very strong signal, moderate noise	Fox	THU
	1730z	24/05 [416/00]	RNGB	THU
	1730z	07/06 [416/00]	RNGB	THU
9150kHz	2000z	18/05 [576/00] Good	RNGB	FRI
	2000z	01/06 [576/00] Good	RNGB	FRI
	2000z	08/06 [576/00]	RNGB	FRI
9610kHz	1045z	01/05 [469/00]	RNGB	TUE
	1045z	08/05 [469/00] Fair	RNGB	TUE
	1045z	22/05 [469/00] Out 1048z S3	Malc	TUE
	1045z	20/06 [469/00]	RNGB	WED
10800kHz	0450z	14/05 [416/00] Fair	RNGB	MON
	0450z	21/05 [416/00]	RNGB	MON
	0450z	04/06 [416/00] Strong	Hans	MON
12924kHz	0830z	03/05 [649/00]	RNGB	WED
	0830z	07/05 [649/00] Strong	RNGB	MON
	0830z	10/05 [649/00] Good	RNGB	THU
	0830z	21/05 [649/00]	RNGB	MON
	0831z	24/05 [649/00]	RNGB	THU
	0830z	31/05 [649/00] Out 0833z S9	Malc	THU



	0830z	18/06 [649/00] Good	RNGB	MON
	0830z	25/06 [649/00] Out 0833z S3	Malc	MON
	0830z	28/06 [649/00] Fair	RNGB	THU
13424kHz	0645z	08/05 [517/00]	RNGB	TUE
	0645z	10/05 [517/00] Weak	RNGB	THU
	0645z	15/05 [517/00]	RNGB	TUE
	0545z	16/05 [348/00] Weak	RNGB	WED
	0645z	17/05 [517/00] Weak	RNGB	THU
	0645z	22/05 [517/00] Out 0648z S8	Malc	TUE
	0645z	24/05 [517/00]	RNGB	THU
	0545z	01/06 [348/00]	RNGB	FRI
	0645z	05/06 [517/00] 0648z Weak	Hans	TUE
	0645z	07/06 [517/00]	RNGB	THU
	0545z	27/06 [348/00] Weak	RNGB	WED
	0645z	28/06 [517/00] Weak	RNGB	THU
13427kHz	0900z	02/05 [534/00] Weak	RNGB	WED
	0900z	14/05 [534/00]	RNGB	MON
	0900z	21/05 [534/00] Out 0903z S4	Malc	MON
	0900z	28/05 [534/00] Out 0903z S2	Malc	MON
	0900z	04/06 [534/00]	RNGB	MON
	0900z	06/06 [534/00]	RNGB	WED
	0900z	18/06 [534/00] Weak	RNGB	MON
	0900z	20/06 [534/00]	RNGB	WED
14753kHz	0710z	01/05 [633/00]	RNGB	TUE
	0710z	04/05 [633/00] Good	RNGB	FRI
	0710z	15/05 [633/00]	RNGB	TUE
	0710z	18/05 [633/00] Strong	Fox	FRI
	0710z	22/05 [633/00]	RNGB	TUE
	0710z	01/06 [633/00]	RNGB	FRI
	0710z	05/06 [633/00] 0713z Weak	Hans	TUE
	0710z	08/06 [633/00] Very strong signal, moderate/strong noise	Fox	FRI
	0710z	19/06 [633/00]	RNGB	TUE
15632kHz	0745z	15/05 [335/00] Fair	RNGB	TUE
	0745z	24/05 [335/00]	RNGB	THU
	0745z	05/06 [335/00]	RNGB	TUE
	0745z	26/06 [335/00] Weak	RNGB	TUE
16125kHz	1045z	08/05 [576/00] Good	RNGB	TUE
	1045z	22/05 [576/00] Fair	RNGB	TUE
	1045z	05/06 [576/00] Weak	RNGB	TUE
16335kHz	1155z	02/05 [718/00]	RNGB	WED
	1540z	07/05 [228/00]	RNGB	MON
	1155z	10/05 [718/00] Good	RNGB	THU
	1540z	14/05 [228/00]	RNGB	MON
	1155z	17/05 [718/00]	RNGB	THU
	1155z	23/05 [718/00]	RNGB	WED
	1540z	03/06 [228/00] Out 1543z S6	Malc	SUN
	1155z	06/06 [718/00] Out 1158z S3	Malc	WED
	1540z	25/06 [228/00] Out 1543z S1	Malc	MON
	1155z	27/06 [718/00] Good	RNGB	WED
<b>E11a May/June log:</b>				
9150kHz	2000z	04/05 [571/30 42739 65745 49134.....]	RNGB	FRI
9610kHz	1045z	05/06 [465/37 27969 75984 29002 60756 04573.....09279] Weak	RNGB	TUE
10487kHz	1710z	18/05 [957/30 85809 19487 36121 48798 31066.....97732] Fair	RNGB	FRI
	1710z	21/05 [953/30 36080 04943 07542 83560 93657.....49261]	RNGB	MON
	1710z	01/06 [959/24 92133 04128 73392 71443 03542.....79181] Fair	RNGB	FRI
	1710z	04/06 [955/30 08213 32892 95261 88060 78523.....47123] Fair	RNGB	MON
	1710z	08/06 [959/24 07126 93838 62828 35768 96904.....] Very weak	RNGB	FRI
	1710z	18/06 [953/25 72380 76678 82697 11277 5-975.....04783] Fair	RNGB	MON
10800kHz	0450z	28/05 [413/33 Attention 95666 29095 ... 24202] Out 0500z Fair QRN3 QSB3	Spectre	MON
12924kHz	0830z	14/05 [644/33 35796 10995 31840 58494 31447.....44117] Good	RNGB	MON
	0830z	17/05 [644/33 35796 etc] repeat of Monday	RNGB	THU
	0830z	04/06 [646/30 23875 31882 29897 37781 83327.....09833] Good	RNGB	MON
	0830z	07/06 [646/30 23875 etc] repeat of Monday	RNGB	THU
13424kHz	0645z	01/05 [517/35 51779 87474 21506 06775 54057.....82180]	RNGB	TUE
	0545z	04/05 [342/36 46943 58410 13151 82190 17651.....25011] Good	RNGB	FRI
	0545z	20/06 [342/37 62533 53168 14101 51267 37682.....69880] Good, Out 0555z	RNGB	WED
13427kHz	0900z	07/05 [530/31 52409 29043 72387 80962 48729.....71176] Fair	RNGB	MON
	0900z	25/06 [533/37 55362 07162 67971 19456.....] Out 0909z S3	Malc	MON



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6140kHz0955z	07/05 - - -z ///XMTR ON, 15 SEC INTO DEAD CARRIER, SOME "DIGITAL" 2-TONE BLEEP. AT 0956z SPIDER SOLITAIRE SOUNDS... 2 MIN LATER XMSN STARTS...	AIK	MON
6140kHz0957z	07/05 YL [570 570 570 570 570 570 570 570 570 570 570 570 570 570 570 MESSAGE MESSAGE MESSAGE 0703 2960 3499 5850 4695 9652 7626 2442 7870 3935 1383 2152 REBEAT REBEAT REBEAT 0703 2960 3499 5850 4695 9652 7626 2442 7870 3935 1383 2152 END OF MESSAGE] VERY STRONG EOM 1002z ///TONE INTRO. XMSN ENDS 10 SEC AFTER EOM.	AIK	MON
9450kHz1312z	08/05 [tone 785 44 3 788 4 2 ... EOM EOT] 1319z QSA3 YL	Fanis	TUE
6140kHz	12/05 VERY STRONG - 0727z ///JUST CAUGHT END OF PRAYER "SESSION" - NO RECORDING.	AIK	SAT
6140kHz 0755z	12/05 [] - - -z ///XMTR ON, ABOUT A MIN. LATER XMSN STARTS... AIK SAT		
0756z	12/05 YL [360 360 360 360 360 360 360 360 360 360 360 360 360 360 MESSAGE MESSAGE MESSAGE 3611 9510 0436 0706 6747 6422 3710 1508 8025 9510 7500 REBEAT REBEAT REBEAT 3611 9510 0436 0706 6747 6422 3710 1508 8025 9510 7500 END OF MESSAGE] VERY STRONG END OF MESSAGE 0801z ///TONE INTRO.XMTR OFF 8 SEC AFTER EOM.	AIK	SAT
6140kHz 1025z	12/05 [] - - -z ///XMTR ON, 1'17" LATER XMSN STARTS. 1026z 12/05 YL [ 675 97 675 97 675 97 675 97 675 97 675 97 675 97 675 97 675 97 675 97 675 97 675 97 675 97 675 97 675 97 MESSAGE MESSAGE MESSAGE] VERY STRONG MESSAGE MESSAGE MESSAGE 1030z ///TONE INTRO. XMTR OFF 4 SEC AFTER "MSG MSG MSG".	AIK	SAT
6140kHz 0658z	16/05 [] - - -z ///XMTR ON, 4'45"LATER XMSN STARTS...	AIK	WED
6140kHz 0702z	16/05 YL [804 804 804 804 804 804 804 804 804 804 804 804 804 804 804 804 MESSAGE MESSAGE MESSAGE 4887 8120 7174 8543 0635 2507 8720 8120 5490 REBEAT REBEAT REBEAT 4887 8120 7174 8543 0635 2507 8720 8120 5490 END OF MESSAGE] VERY STRONG END OF MESSAGE 0801z ///TONE INTRO. XMTR OFF 13 SEC LATER OFF AFTER "EOM". AM RECORDING. THE SIGNAL IS SO STRONG IT SILENCES 98% OF ANY OTHER "BACKGROUND" XMSNs.	AIK	WED
6140kHz 0759z	16/05 YL [360 360 360 360 360 360 360 360 360 360 360 360 360 360 360 360 MESSAGE MESSAGE MESSAGE 4621 9410 9522 4837 8824 2507 7480 8916 5533 1614 9410 5705 REBEAT REBEAT REBEAT 4621 9410 9522 4837 8824 2507 7480 8916 5533 1614 9410 5705 END OF MESSAGE] VERY STRONG END OF MESSAGE 0804z ///TONE INTRO. XMTR OFF 23 SEC OFF AFTER "EOM". AM REC.	AIK	WED
6140kHz 0829z	16/05 [] VERY STRONG - 0834z ///XMTR ON, MUSIC STARTS ALMOST IMMEDIATELY, "AHWAK"-ABDUL HALIM HAFEZ - FULL SONG. XMTR CLOSED ABOUT 8 SEC AFTER SONG ENDS. ABOUT 37 SEC INTO SONG, THERE'S WHAT ALMOST SOUNDS LIKE A FAINT QUIVERING "FIVEUH". AT 4'41" THE AUDIO DISTORTS MOMENTARILY – HAPPENS IN AN ODD PART OF THE SONG. SOUNDS LIKE TAPE RECORDING PROBLEMS.	AIK	WED
6140kHz 0926z	17/05 YL [135 16 135 16 135 16 135 16 135 16 135 16 135 16 135 16 16 135 16 135 16 135 16 135 16 135 16 135 16 135 16 135 16 135 16 135 16 135 16 MESSAGE MESSAGE MESSAGE END OF MESSAGE END OF TRANSMISSION] VERY WEAK EOM EOT 0930z ///30 SEC TONE INTRO – BRIEF PASUE 5+- SEC PAUSE THEN RESUMES. XMTR OFF AT END OF "EOT". AT FIRST I THOUGHT THAT THE VERY WEAK XMSN COULD BE BECAUSE OF MY EQUIPMENT, BUT NOW I'M OF THE OPINION THAT IT BECAUSE THESE TWO XMSNs TODAY HAVE EITHER ORIGINATED FROM A DIFFERENT XMTR SITE, THE ANTENNA WAS TARGETING THE WRONG "REGION OF INTEREST" AND/OR THE XMTR WAS NOT UP TO PAR. WHO REALLY KNOWS? IT'S JUST "E25". BOTH THESE CALL IDS, 702 AND 135 ARE ALWAYS VERY STRONG.	AIK	THU
6140kHz 1041z	26/05 [] - - -z ///XMTR ON, XMSN STARTS about 13 sec later...	AIK	SAT
6140kHz 1041z	26/05 YL [128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 MESSAGE MESSAGE MESSAGE 4966 0721 8520 6954 7487 0737 2468 6007 4820 8878 8710 8520 REBEAT REBEAT REBEAT 4966 0721 8520 6954 7487 0737 2468 6007 4820 8878 8710 8520 END OF MESSAGE END OF TRANSMISSION] VERY STRONG EOM EOT 1047z ///SOMETHING NEW, PARTIAL "MOSQUE SESSION" PAUSE THEN THE TONE INTRO. MSG audio slightly weaker than "Mosque session" - still Very Strong though. Recorded in AM.	AIK	SAT

AIK WED

AIK TUE

AIK TUE

Fanis MON

Fanis	TUE
Fanis	TUE

AE WED

AIK, Fanis MON

AIK SAT

AIK SAT

AIK

SAT

AIK MON

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//TONE INTRO. XMTR STAYS ON.

AIK

MON

*This is interesting, ID 012 popped up again today with a rather 20 group character set. This is unusually long for this station.*

*The longest one logged to known E25 history was 21 groups. Also, this is the second time I've logged 012 and as far as I know, the only 000 series ID.*

6140kHz 0811z 04/06

YL [185 185 185 185 185 185 185 185 185 185 185 185 185

MESSAGE MESSAGE MESSAGE

7595 5430 0712 0441 4846 3412 6844 9166 7338 2376 9446

REBEAT REBEAT REBEAT

7595 5430 0712 0441 4846 3412 6844 9166 7338 2376 9446

END OF MESSAGE] VERY STRONG END OF MESSAGE 0815z

//TONE INTRO. XMTR FINALLY OFF AT 0815z, 13 SEC AFTER EOM.

AIK

MON

6140kHz 0826z 07/06 [- - -z ///XMTR ON,14 sec into it the 3950Hz tone can  
be heard XMSN STARTS about 1'36" later - in AM mode ...

AIK

THU

6140kHz 0829z 07/06 YL [701 701 701 701 701 701 701 701 701 701 701 701 701  
701 701

MESSAGE MESSAGE MESSAGE

1011 4010 7280 5855 4205 2558 1655 4010

REBEAT REBEAT REBEAT

1011 4010 7280 5855 4205 2558 1655 4010

END OF MESSAGE END OF TRANSMISSION]

VERY STRONG EOM EOT 0832z

///30" TONE INTRO. XMTR OFF 8+ SEC AFTER EOM/EOT.

AIK

THU

6140kHz 0844z 07/06 [- - -z ///XMTR ON,12+ sec into it the 3950Hz tone can  
be heard XMSN STARTS about 18" later - in AM mode...

AIK

THU

6140kHz 0844z 07/06 YL [169 169 169 169 169 169 169 169 169 169 169 169 169  
169 169

MESSAGE MESSAGE MESSAGE

0245 4220 9023 2623 2683 6892 7731 2748 8026 9034

REBEAT REBEAT REBEAT

0245 4220 9023 2623 2683 6892 7731 2748 8026 9034

END OF MESSAGE END OF TRANSMISSION]

VERY STRONG EOM EOT 0849z

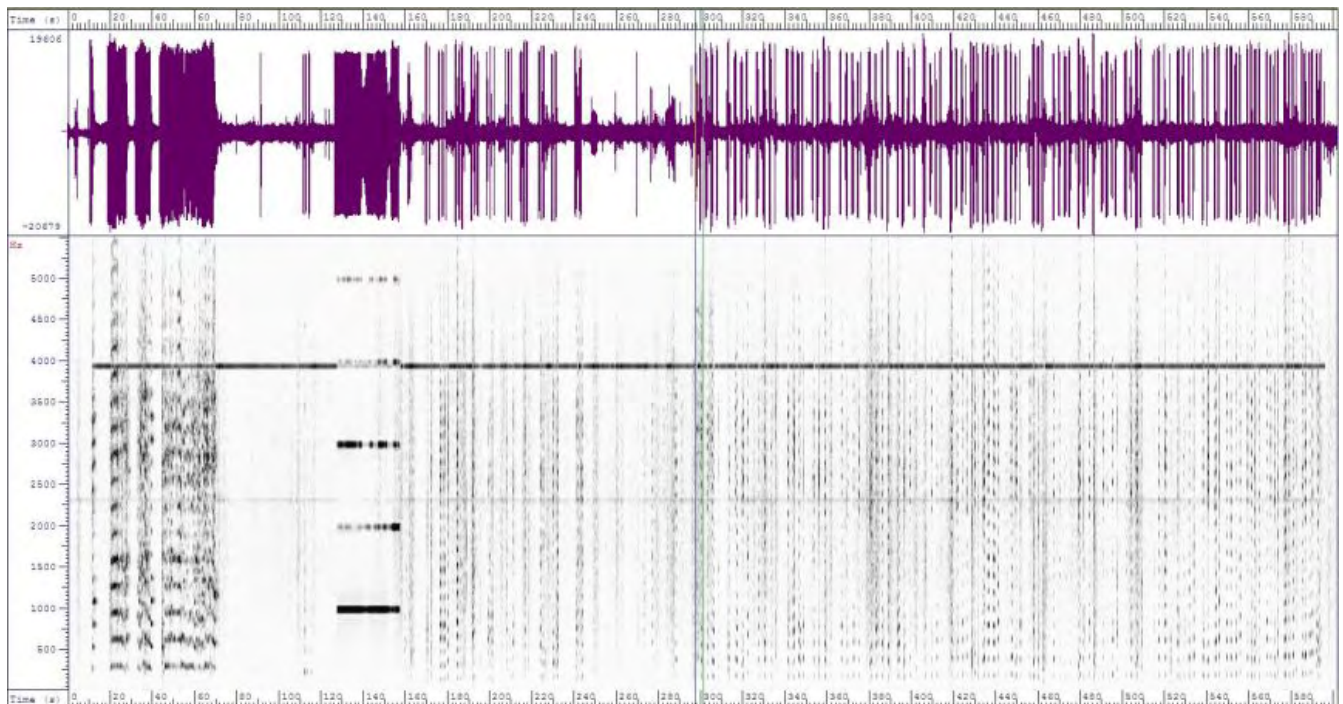
///30" TONE INTRO.XMTR OFF a few sec after EOM/EOT.

AIK

THU

This one is another rarity. An OM does it this time, but not one I recognize maybe you do. It also starts with a MUAZZINE intro before the TONE INTRO, to date of which I have not heard. Sometimes you will hear just the MUAZZINE, but no MSG.

Audio uploaded: <http://www.iarc.org/~4z5to/null.php>



Spectral Image of 6140kHz 0807z 13/06 onward, ending 0817z



# TRANSCRIPTION WITH COMMENTARY

6140kHz 0807z 13/06 [] - -z ///XMTR ON, XMSN STARTS about 12 seconds later  
MUAZZINE calls and runs for almost 2 minutes. WINDOWS DING 20 sec after MUAZZINE  
ENDS, the 20 sec thereafter, 3 more WINDOWS DINGS. Approx 7+ sec after that, 2  
maybe SPIDER SOLITAIRE "clicks". MSG TONE STARTS 2+ sec @ 0809z. I BELIEVE WHAT  
FOLLOWS WAS A LIVE TRANSMISSION...

AIK

WED

6140kHz 0809z 13/06 OM [11(BANGING ON MIC)6 116 116 116 116  
(AUDIO QUALITY/PROBLEMS START) 116 116 116  
MESSAGE MESSAGE MESSAGE  
81 (AUDIO DROPS OUT) 15  
(AUDIO NORMAL) 10  
(AUDIO DROPS OUT) 31 3160 87(SOME BANGING AROUND IN THE STUDIO NOISES)99  
3680  
(MORE BANGING NOISE, THEN SOME "ADJUSTMENT" NOISE, AUDIO RETURNS TO "NORMAL")  
3909 1039 6712 5122 0391 4729 3967 4337 6021 0828  
REBEAT REBEAT REBEAT  
8115 1031 3160 8799 3680 3909 1039 6712 5122 0391 4729 3967 4337 6021 0828  
END OF MESSAGE END OF TRANSMISSION] VERY STRONG 0817z ///TONE INTRO. XMTR OFF AT  
MSG END VERY STRONG EOM/EOT

AIK

WED

6140kHz 0928z 13/06 - -z ///XMTR ON, XMSN STARTS about 23" later...

AIK

WED

6140kHz 0929z 13/06 YL [333 333 333 333 333 333 333 333 333 333  
MESSAGE MESSAGE MESSAGE  
4111 6020 7485 1503 7112 5676 7001 2415 9342 2531 6020  
REBEAT REBEAT REBEAT  
4111 6020 7485 1503 7112 5676 7001 2415 9342 2531 6020  
END OF MESSAGE END OF TRANSMISSION] VERY STRONG EOM EOT 0933z  
///TONE INTRO. MABYE A "CREAKY CHAIR" NOISE JUST BEFOR XMTR SHUT OFF AFTER EOT.

AIK

WED

25 6140kHz 1007z 13/06 []- -z ///XMTR ON, 4 WINDOWS DINGS. IN BACKGROUND  
THERE ARE 1 SEC "BLIPS". XMSN STARTS about 53 sec later...

AIK

WED

6140kHz 1008z 13/06 YL [570 570 570 570 570 570 570 570 570 570  
MESSAGE MESSAGE MESSAGE  
2035 6066 8934 5877 9590 1070 0889 1455 3570 5327 5359  
REBEAT REBEAT REBEAT  
2035 6066 8934 5877 9590 1070 0889 1455 3570 5327 5359  
END OF MESSAGE END OF TRANSMISSION] VERY STRONG EOM EOT 1013z ///TONE INTRO.  
XMTR OFF 27 SEC AFTER EOM EOT.

AIK

WED

6140kHz 1040z 13/06 []- -z ///XMTR ON, around 3'8" there's an odd  
"spinning up" sound. About 3' later XMSN starts...

AIK

WED

6140kHz 1043z 13/06 YL [128 128 128 128 128 128 128 128 128 128  
MESSAGE MESSAGE MESSAGE  
5261 8071 6670 7144 6832 1343 1466 2488 4775 4471 4414  
3629 1106 4786 6836 8205 6670  
REBEAT REBEAT REBEAT  
5261 8071 6670 7144 6832 1343 1466 2488 4775 4471 4414  
3629 1106 4786 6836 8205 6670  
END OF MESSAGE END OF TRANSMISSION] VERY STRONG EOM EOT 1049z  
///TONE INTRO.  
WINDOWS DING AFTER EOM/EOT, THE 4 MORE WINDOWS DINGS AND  
XMTR OFF.

AIK

WED

14/06  
===== 1st EVENT =====

6140kHz 0756z 14/06 [] - - 0758z  
///XMTR ON, MAIN XMSN STARTS about 12" later...

AIK

THU

E25 6140kHz 0756z 14/06 YL [116 116 116 116 116 116]  
VERY STRONG 116 0758z  
///TONE INTRO. REALLY BAD OVER-MODULATION/FEEDBACK. XMTR  
APPARENTLY SHUT OFF BECAUSE OF IT.

AIK

THU

===== 2nd EVENT =====

6140kHz 0758z 14/06 [] - - 0804z  
///XMTR ON, MAIN XMSN STARTS about 12" later...

AIK

THU

6140kHz 0759z 14/06 YL [116 116 116 116 1(PAUSE) 16 116 (FROM HERE ON,THE  
AUDIO HAS A BIT OF REVERBERATION TO IT – PROBLEM NOT  
COMPLETELY FIXED) 116 116 116 116 116  
MESSAGE MESSAGE MESSAGE  
8115 1031 3160 8799 3680 3509 1039 (NICE REVERB HERE)  
6712 5122 0391 4729 3967 4337 6021 0828  
REBEAT REBEAT REBEAT

8115 1031 3160 8799 3680 3909 1039 6712 5122 0391 4729 3967 4337 6021 0828 END OF MESSAGE] VERY STRONG END OF MESSAGE 0804z ///TONE INTRO W/ SOME GLITCHES. OVER- MODULATION/FEEDBACK/REVERBERATION OCCURS AGAIN FOR ABOUT 18" THEN ALL RESUMES E25 "NORMAL" FOR THE MOST PART. XMTR OFF 7" AFTER EOM.	AIK	THU
===== 3rd EVENT =====		
6140kHz 0959z 14/06 [] - - 1010z ///XMTR ON, MAIN XMSN STARTS about 14" later...	AIK	THU
6140kHz 0959z 14/06 YL [570 570 570 570 570 570 570 570 570 MESSAGE MESSAGE MESSAGE 2035 6066 8935 5877 9590 1070 0889 1455 3570 5327 5359 REBEAT REBEAT REBEAT 2035 6066 8935 5877 9590 1070 0889 1455 3570 5327 5359 END OF MESSAGE] VERY STRONG END OF MESSAGE 1003z ///MUSIC (SONG UNKNOWN, ARABIC STYLE) AND TONE INTRO. MSG ENDS @ 1003z. THE REVERB ISSUE IS STILL PRESENT THROUGHOUT THE WHOLE XMSN AND CONTINUES FOR ANOTHER 7" AFTER MSG ENDS. INTERESTING TO NOT THAT THE ID STRING IS NOW DOWN TO TEN REPEATS INSTEAD OF THE FIFTEEN THAT USED TO BE COMMON.	AIK	THU
===== 4th EVENT =====		
6140kHz 1109z 14/06 [] - - 1120z ///XMTR ON, REVERB KICKS IN 14" FOR ABOUT 9", 9000HZz TONE STARTS THEN TOO. AT 1111z ANOTHER REVERB STARTS WITH 440Hz TONE FOR 13" FOLLOWED BY 2 BRIEF XMTR "RINGING" NOISES. MAIN XMSN STARTS about 3' later...	AIK	THU
6140kHz 1112z 14/06 YL [880 880 880 880 880 880 880 880 880 880 (REVERB)880 880 880 880 880 MESSAGE MESSAGE MESSAGE (REVERB)2420 0295 5191 2954 7563 2774 6716 7091 9126 5599 9908 8289 5642 8532 2420 REBEAT REBEAT REBEAT 2420 0295 5191 2954 7563 2774 6716 7091 9126 5599 9908 8289 5642 (REVERB)8532 2420 END OF MESSAGE END OF TRANSMISSION(REVERB)] VERY STRONG EOM EOT 1117z ///TONE INTRO. REVERB COMES AND GOES AT NOTED SPOTS, REVERB ALSO CONTINUES UNTIL 1119z THOUGH THE 9000Hz TONE IS STILL PRESENT UNTIL END OF XMSN @ 1120z.	AIK	THU
6140kHz 1111z 15/06 [] - - 1111z ///XMTR ON. XMTR OFF. 2 SEC.	AIK	FRI
6140kHz 1111z 15/06 [] - - 1118z ///XMTR ON, MAIN XMSN STARTS about 12" later...	AIK	FRI
6140kHz 1111z 15/06 YL [880 880 88 (STUTTER AND REVERB PRESENT) 8 8 (1000Hz TONE STARTS AGAIN) 880 880 880 880 880 (HEAVY REVERB AND INTERFERENCE THEN AUDIO QUALITY DROPS) 0 880 880 880 880 (AUDIO QUALITY STARTS TO RETURN TO NORMAL, REVERB STILL PRESENT THEN DISAPPEARS) 880 880 880 880 MESSAGE MESSAGE MESSAGE 2420 0295 5191 2954 7563 2774 6716 7091 9126 5599 9908 8289 5642 8532 2420 REBEAT REBEAT REBEAT 2420 0295 5191 2954 7563 2774 6716 7091 9126 5599 9908 8289 5642 8532 2420 END OF MESSAGE] VERY STRONG END OF MESSAGE 1118z ///MUSIC – UNRECOGNIZED ARAB MALE VOICE, ARABIC STYLE THEN TONE INTRO. MUSIC DURATION 9". THE 3900Hz TONE STARTS SAME TIME AS MUSIC, 1000Hz TONE 10" AFTER MUSIC. MAIN XMSN MSG STARTS 24" AFTER 1000Hz TONE. XMTR OFF AFTER EOM.	AIK	FRI
6140kHz 0947z 17/06 [] - - 0958z ///XMTR ON, MAIN XMSN STARTS about 19" later...	AIK	SUN
6140kHz 0947z 17/06 YL [33 350 350 350 350 350 350 350 350 350 350 350 350 350 MESSAGE MESSAGE MESSAGE 7010 7120 7001 9141 3579 5275 5236 8189 7241 7120 REBEAT REBEAT REBEAT 7010 7120 7001 9141 3579 5275 5236 8189 7241 7120 END OF MESSAGE] VERY STRONG END OF MESSAGE 0956z ///29" TONE INTRO THEN MUSIC – UMM KUHLTOM "ENTRA OMRI" - SONG DURATION 3'43". THE FIRST "33" IS NOT A TYPO.	AIK	SUN

6140kHz 0823z 21/06 [] - - 0838z ///XMTR ON, MAIN XMSN STARTS about 5'10" later. 3900Hz tone audible agin throughout entire XMSN. TONE INTRO blip...	AIK	WED
6140kHz 0828z 21/06 YL [701 701 701 701 701 701 701 701 701 701 701 701 701 701 701 701 701 MESSAGE MESSAGE MESSAGE 1915 9140 9211 7332 8891 9977 3406 1756 3203 2697 9140 REBEAT REBEAT REBEAT 1915 9140 9211 7332 8891 9977 3406 1756 3203 2697 9140 END OF MESSAGE END OF TRANSMISSION] VERY STRONG EOM EOT/" AHWAK" 0837z ///TONE INTRO. ID REPETITION 15x. MUSIC AFTER MSG, ABDUL HALIM HAFEZ, "AHWAK" - FULL SONG. NOTE: THERE IS ARE 2 AUDIO "MIRRORS", THE MAIN ONE IS CENTERED OFF OF THE 3900Hz TONE, VISIBLE IN THE SPECTRAGRAM.	AIK	WED
----- 1st XMSN SET -----		
6140kHz 0815z 22/06 [] - - 0834z ///XMTR ON, MAIN XMSN STARTS about 13' later. 3900Hz tone audible again throughout entire XMSN. AIK FRI		
6140kHz 0828z 22/06 YL [701 701 701 701 701 701 701 701 701 701 701 701 701 701 701 701 701 MESSAGE MESSAGE MESSAGE 1915 9140 9211 7332 8891 9977 3406 1756 3203 2697 9140 REBEAT REBEAT REBEAT 1915 9140 9211 7332 8891 9977 3406 1756 3203 2697 9140 END OF MESSAGE END OF TRANSMISSION] VERY STRONG EOM EOT 0832z ///TONE INTRO. ID REPETITION 15x. AUDIO SOUNDS "TINNY".	AIK	FRI
----- 2nd XMSN SET -----		
6140kHz 0940z 22/06 [] - - 1002z ///XMTR ON, MAIN XMSN STARTS about 18' later. 3900Hz tone audible again throughout entire XMSN.	AIK	FRI
=====23/06=====		
----- 1st XMSN SET, 1st MSG -----		
6140kHz 0702z 23/06 YL [2]VERY STRONG 2 0717z ///XMTR ON, FOLLOWED BY YL [2] THEN MAIN XMSN STARTS about 17" later. 3900Hz tone audible again throughout entire XMSN. AIK SAT		
6140kHz 0703z 23/06 YL [250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 MESSAGE MESSAGE MESSAGE 2566 1031 0620 3243 3651 1653 5968 0285 2388 8874 5254 9275 0620 REBEAT REBEAT REBEAT 2566 1031 0620 3243 3651 1653 5968 02 (MSG TRUNCATED FOLLOWED BE SEVERAL WINDOWS OS "DINGS". SEVERAL MINUTES LATER, WHAT SOUNDS LIKE SPIDER SOLITAIRE CLICKS FOLLOW THEN SEVERAL MORE WINDOWS OS DINGS AGAIN THEN MORE SPIDER SOLITAIRE CLICKS.)] VERY STRONG 02 0706z ///TONE INTRO.	AIK	SAT
----- 2nd MSG -----		
6140kHz 0713z 23/06 YL [804 804 804 804 804 804 804 804 804 804 804 804 804 804 804 804 804 MESSAGE MESSAGE MESSAGE 9980 0250 1938 1496 3254 8671 2147 2655 0250 5164 8401 REBEAT REBEAT REBEAT 9980 0250 1938 1496 3254 8671 2147 2655 0250 5164 8401 END OF MESSAGE] VERY STRONG END OF MESSAGE 0717z ///TONE INTRO.	AIK	SAT
9450kHz1313z        12/06   1313z : 998Hz tone; 1314z: odd characters 4 0 2 7250 27 4 2 21 EoM 1317z   Weak and noisy	PLdn	TUE
9450kHz 1222z 17/06 [] - - 1236z ///XMTR ON, MAIN XMSN STARTS about 6'25" later...	AIK	SUN
9450kHz 1228z 17/06 YL [5555 5 555 555 555 555 555 555 555 555 555 555 555 555 555 555 555		

AIK SUN

Fanis MON

Fanis WED

AIK THU

AIK THU

AIK

SAT

AIK THU

AIK THU

AIK THU

AIK SAT

AIK SAT

AIK SAT

group repeats 20x.***ID 364 PREVIOUSLY CAUGHT ONCE BEFORE ON 08/04, POSSIBLY INFREQUENT.	AIK	SAT
6140kHz 0900z 21/05 [] - - -z ///XMTR ON, XMSN STARTS about 12+ sec later, MSG START TIME from 3950Hz TONE...	AIK	MON
6140kHz 0901z 21/05 YL [333 135 69 333 135 69 333] VERY STRONG *333 0904z ///Just before the NORMAL 30 SEC. 1000Hz TONE INTRO, there was a 3950Hz TONE for about 17 sec. Then the MSG *ENDED IN 333 THOUGH SONG AFTER. 13 SEC. Actual CODE GROUP MSG LENGTH is 13 sec. AFTER MSG, "AHWAK" SONG begins – song is partial and jump-cuts to different parts then truncated. XMTR OFF 7 sec. After "AHWAK" ends at 0904z. Recorded in AM.	AIK	MON
6140kHz -z 27/05 YL [...806 16 806 16 806 16 806 16 806 16 MESSAGE MESSAGE MESSAGE REBEAT REBEAT REBEAT END OF MESSAGE] VERY STRONG END OF MESSAGE 0701z ///Was in progress when I turned my equipment on.	AIK	SUN
6140kHz 1039z 27/05 [] - - -z ///XMTR ON, XMSN STARTS about 3'10" later...There was also a 3940Hz tone that started about 13 sec after XMSN started	AIK	SUN
6140kHz 1042z 27/05 YL [126 56 126 56 126 56 126 56 126 56 126 56 126 56 126 56 126 56 126 56 126 56 126 56 126 56 126 56 126 56 126 56 56 126 56 126 56 126 56 126 56 126 56 126 56 MESSAGE MESSAGE MESSAGE REBEAT REBEAT] VERY STRONG REBEAT REBEAT 1046z ///TONE INTRO. XMTR OFF AT END OF "REBEAT"	AIK	SUN
9450kHz1320z 05/05 YL [785 45 46 788 4 43 44 785 45 46 788 4 43 44 785 45 46 788 4 43 44 785 45 46 788 4 43 44 785 45 46 788 4 43 44 785 45 46 788 785 45 46 788 4 43 44 785 45 46 788 4 43 44 785 45 46 788 4 43 44 785 45 4 43 44 785 45 46 788 4 43 44 785 45 46 788 4 43 44 785 45 46 788 4 43 44 46 788 4 43 44 785 45 46 788 4 43 44 785 45 46 788 4 43 44 785 45 46 788 785 45 46 788 4 43 44 785 45 46 788 4 43 44 785 45 46 788 4 43 44 78 78 78 END OF MESSAGE END OF TRANSMISSION] VERY STRONG EOM EOT 1330z ///TONE INTRO. XMTR OFF 4 SEC AFTER "EOT".	AIK	SAT

## June 2012

### E25a

6140kHz 0958z 22/06 YL [575 73 575 73 575 73 575 73 575 73 575 73 575 73 575 73 575 73 575 73 575 73 575 73 575 73 575 73 MESSAGE MESSAGE MESSAGE REBEAT REBEAT REBEAT END OF MESSAGE END OF TRANSMISSION]VERY STRONG EOM EOT 1002z ///TONE INTRO. ID REPETITION 15x.	AIK	FRI
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### G06[1A]

#### PoSW's logs

#### **Second + Fourth Thursdays in the Month 1830 UTC Schedule:-**

10-May-12:- 6,887 kHz, seasonal change of frequency from 5,934 kHz of March and April.  
Calling "842", DK/GC "199 199 15 15". Good signal on an interference - free frequency.

24-May-12:- 6,887 kHz, "842" and "199 199 15 15" again.

14-June-12:- 6,887 kHz, call "842", DK/GC "408 408 15 15", good signal.

#### **Friday 1930 UTC Schedule – on the Friday after the second and fourth Thursdays in the month:-**

11-May-12:- 5,943 kHz, now moved to the summertime frequency inside the 49 metre band but clear of broadcast stations. Call "218", DK/GC "435 435 15 15", S9 signal.

25-May-12:- 5,943 kHz, "218" and "435 435 15 15" again, S9 on a clear frequency.

15-June-12:- 5,943 kHz, calling "218", DK/GC "702 702 15 15", good signal with no broadcast interference.

#### **First + Second Mondays in the Month 1700 + 1800 UTC Schedule:-**

7-May-12:- 1700 UTC, 5,284 kHz, "154 154 154 00000", very weak signal, carrier noted a couple of minutes before the hour - in fact, the *only* carrier found in this part of the spectrum so assumed it was going to be G06.  
1800 UTC, 4,896 kHz, second sending, not found until 1802z.

14-May-12:- 1700 UTC, 5,284 kHz, “154 154 154 00000”, no voice heard until approx 1702z, either due to very weak signal or may have started late as transmission did not end until just before 1708z.

1800 UTC, 4,889 kHz I made it, not found until well after 1801z, wasted a minute straining my ears on 4,896 used last time. Stronger and clearer than the first sending and stopped just after 1804z.

4-June-12:- 1800 UTC, 4,896 kHz, “154 154 154 00000”, very weak signal, only just detectable.

#### Monday 0800 UTC Schedule:-

7-May-12:- 6,948 kHz, “215 215 215 00000”, very weak signal, only just detectable, would not normally be at home to play radio at 9 am on a weekday but today is a public holiday in this here dis-United Kingdom. Shown in E2k prediction list.

4-June-12:- 6,948 kHz, another holiday for us lucky old Brits, “215 215 215 00000”, weak signal but probably slightly stronger than last time.

#### RNGB's Logs:

##### G06 May log:

Monday 7th	17:00	5284	'154' 00000
	18:00	4896	'154' 00000
Thurs 10th	18:30	6887	'842' 199 15 27845 17634 28907 35647 87352.....36745
Monday 14th	08:00	6948	'215' 00000
Monday 21st	08:00	6948	'215' 00000
Friday 25th	19:30	5943	'218' 435 15 25634 64758 65344 21324 90780.....15342

##### G06 June log:

Monday 4th	17:00	5284	'154' 00000
	18:00	4896	'154' 00000
Monday 18th	08:00	6948	'215' 00000

#### And onto other's logs:

##### May 2012:

4896kHz1800z	07/05[154 00000]		RNGB	MON
5284kHz1700z	07/05[154 00000]		RNGB	MON
5943kHz1930z	11/05[218 435 15 25634 ... 15342 435 15 00000(s)] 1937z Strong	(7m12s)	HJH, PLdn	FRI
1930z	25/05[218 435 15 25634 ... 15342 435 15 00000(s)] 1938z Very strong	(7m25s)	PLdn	FRI
6887kHz 1830z	10/05 [842 199 15 27845 ... 36745 199 15 00000(s)] 1839z Fair	(7m27s)	PLdn, RNGB	THU
1830z	24/05[842 199 15 27845 ... 36745 199 15 00000(s)] 1837z Strong	(7m27s)	PLdn	THU
6948kHz 0800z	14/05[218] weak, inaudible		PLdn	MON
0800z	28/05[315.....]very weak		M8	MON

##### June 2012:

5943kHz 1930z	15/06[418 722 15 82756 ... 95243 722 15 00000(s)] 1937z Strong	(7m08s)	PLdn	FRI
6887kHz1830z	14/06[842 408 15 79564 ... 68480 408 15 00000(s)] 1839z Strong	(7m03s)	PLdn	THU
1830z	28/06[842 408 15 79564 ... 68490 408 15 00000(s)] Fair, XJTQRM2	(7m03s)	PLdn	THU
6948kHz0800z	04/06[215 00000(s)] Fair/Strong QSB2		Hans	MON
0800z	25/06[215 00000] 0803z S1		M8	MON

#### G11(III)

##### G11 May/June log:

3815kHz 2000z	04/05 [262/00] Good		RNGB	FRI
2000z	13/05 [262/00] Good		RNGB	SUN
2000z	18/05 [266/36 97135 25599 69434 03102 12496.....85013] Good		RNGB	FRI
2000z	01/06 [265/31 A15475 75992 ... 58150] Ende 2009z Fair, QRM3	(9m24s)	PLondon, RNGB	FRI
2000z	03/06 [265/31 A15475 ... 58150] Ende 2009z Strong, QSB2	(9m40s)	PLondon	SUN
2000z	24/06 [262/00] Ende 2003z, Very strong	(3m21s)	PLondon	SUN
5815kHz 1755z	01/05 [276/37 55652 34559 55412 16515 96799.....57962]		RNGB	TUE
1755z	06/05 [276/37 55652 etc] repeat of Tuesday		Fox	SUN
1755z	08/05 [270/00]		RNGB	TUE
1755z	13/05 [270/00]		RNGB	SUN
1755z	15/05 [270/00]		RNGB	TUE
1755z	20/05 [270/00]		RNGB	SUN
1755z	22/05 [270/00]		RNGB	TUE
1325z	02/06 [294/38 94202 29373.....] Very weak		RNGB	SAT
1755z	03/06 [270/00] Ende 1758z Strong, QRM2	(3m25s)	PLondon	SUN
1755z	24/06 [270/00] Ende 1758z, Fair, QRM3	(3m20s)	PLondon	SUN

## **S06**

### **S06 report May2012 [fm RRGB]:**

Was listening for Thursday morning S06 repeat at 0930 on 14736 Friday 4th and was expecting 842 790 44 groups, but instead got an S06b which sent 842 156 2 11111 00056 156 2 00000

These S06b transmissions nearly always appear on the 'next day repeat' of a message on the same frequency/time. Sometimes the S06 message follows on from the S06b.

### **S06 log May:**

Thurs	3rd	09:30	14736	'842' 790 44 ? 77142 45997 36875
Saturday	5th	16:05	6983	'134' 00000
		19:00	7847	'416' 00000
		19:00	11438	'314' 00000
		19:30	7884	'843' 00000
		20:00	9432	'314' 00000
		20:00	6916	'416' 00000
Monday	7th	19:05	6984	'349' 00000
Thurs	10th	09:36	14736	'842' 907 35 39894 46459 23603 20508 33836.....36570
Monday	14th	19:00	7982	'349' 00000
Monday		19:15	13490	'426' 730 95 67290 25843 46278 81769 81501.....63843
Tuesday	15th	18:15	15835	'426' 730 95 67290 25843 46278 81769 81501.....63843
Thursday	17th	09:30	14736	'842' 105 36 42382 47535 64560.....37362
Friday	18th	09:30	14736	'842' 105 36 42382 47535 64560.....37362
Saturday	19th	19:00	11438	'314' 00000
		19:00	7847	'416' 00000
		19:30	7884	'843' 00000
		20:00	9422	'314' 00000
		20:00	6916	'416' 00000
Monday	21st	19:05	6984	'349' 00000

### **S06b**

Friday	4th	09:30	14736	'842' 156 2 11111 00056 156 2 00000
Thursday	10th	09:30	14736	'842' 156 2 11111 00056 156 2 00000

### **S06s report:**

ID 176 Monday afternoons has not been heard. After an extensive search the status of this ID is now in question?

No messages reported from ID 831 this month, instead found sending nulls on the frequencies listed below. Back to message sending at the beginning of June.

### **S06s log May:**

#### **Monday**

7th/14th/21st	1200/10/20/30/40/50	8631/9812/10483/10954/11715/12245	'831' 00000
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#### **Tuesday**

1st/8th	0600/0610	16735/15230	'438' 217 5 01876 45632 89765 45567 11987
15th/22nd			'438' 951 6 99228 77544 04816 56557 51269 03176
1st/8th	0700/0715	5430/6780	'374' 958 6 45328 98065 33770 67853 34345 89123
15th/22nd			'374' 850 6 ????? 48225 52887 33258 55334 01575
1st/8th	0800/0810	14373/12935	'352' 809 6 32265 63517 44664 74855 57108 80135
15th/22nd			'352' 914 6 57950 37108 42451 64572 55715 46644
1st/8th	1500/1510	6666/7744	'537' 290 6 – too weak to copy
15th/22nd			'537' 910 6 07443 68244 25530 33698 54142 20149

#### **Wednesday**

2nd/9th	0530/0540	11435/12650	'153' 498 6 57634 23175 89674 56474 90785 23153
23rd/30th	0730/0740	7335/11830	'745' 891 6 90122 89767 67832 34567 90876 34436
2nd/9th	0820/0830	6755/5835	'471' 928 5 47834 88600 35096 45274 95160
16th/23rd			'471' 805 6 81726 36473 91028 99356 78611 67325
2nd/9th	0840/0850	10120/9670	'328' 549 6 40092 47395 25805 08726 02901 06532
16th/23rd			'328' 971 5 67658 45637 92928 09182 45330
2nd/9th	1000/1010	14580/16020	'729' 438 5 64187 78241 28093 20376 86953
16th/23rd			'729' 831 5 89231 01973 74567 78439 99234
2nd/9th	1200/1210	7765/6815	'481' 936 5 51097 98824 67260 06330 08919
16th/23rd			'481' 926 5 54351 23435 65646 29319 44564
2nd/9th	1230/1240	7545/8220	'967' 432 5 55235 43407 75304 34438 97051

#### **Thursday**

3rd/10th	0800/0810 (E17z)	16780/12850	'674' 809 5 01928 46375 39865 68753 08976
17th/24th			'674' 509 8 52441 37733 13543 73510 ?4059 ???
3rd/10th	0900/0910	12952/13565	'167' 203 5 89765 45321 79865 08978 46522
17th/24th			'167' 208 5 39502 39422 84487 48836 87714
17th/24th	0930/0940	9255/7630	'314' 826 5 37030 19233 41377 95123 51083
3rd/10th	1200/1210	12165/14535	'425' 801 6 09867 76817 64753 12049 12846 84135
17th/24th			'425' 831 6 88489 43545 97606 48665 45887 81606

#### **Friday**

4th/11th	0600/0610	7845/9125	'196' 432 5 39580 73919 35941 53041 78651
18th/25th			'196' 832 5 43439 48619 45061 84352 80619
4th/11th	0600/0610	8720/10415	'934' 857 6 28998 45505 42248 04788 53832 53026
18th/25th			'934' 508 6 322?0 41149 49440 85546 81784 80141
4th/11th	0930/0940	10290/9655	'516' 802 7 01928 73645 67438 90126 78329 88210 88735
18th/25th			'516' 820 7 44930 42038 92028 64734 99525 18606 70448

#### **Saturday**

5th	1200/1210	12460/10250	'254' 807 6 46632 10965 33920 09648 25341 70762
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**Repeated groups:**

Tues	15 May 2012	06.00	16735	'438' 951 6 99228 77544 04816 56557 51269 03176
Weds	26 Oct 2011	12.00	7120	'481' 270 5 99228 77544 04816 56447 51269
Thursday	4 Aug 2011	09.00	12952	'167' 950 8 99228 77544 04816 56447 51269 03176 58842 55499
Weds	15 Dec 2010	12.40	6420	'967' 283 5 99228 77544 04816 56557 -5823?
Friday	21 Jan 2011	06.00	5460	'934' 867 5 99228 77544 04816 56557 51269
Thursday	24 Mar 2011	09.00	12952	'167' 948 5 99228 77544 04816 56557 51269
Weds	13 Apr 2011	19.00	9220	'371' 980 5 99228 77544 04816 56557 51269
Tuesday	1 Feb 2011	12.30	5810	'278' 415 6 99228 77544 04816 56557 51269 03176
Tuesday	27 Apr 2010	08.00	11635	'352' 867 9 99228 77544 04816 56557 51269 03176 58842 55499 72223

**S06 log June:**

Saturday 2nd	16:00	8157	'134' 00000
	19:00	11437	'314' 00000
	19:00	7847	'416' 00000
	19:30	7884	'843' 00000
	20:00	6916	'416' 00000
	20:00	9432	'314' 00000
Monday 25th	18:15	15910	'832' 00000
Tuesday 26th	20:23	4512	'524' 00000
Wednesday 27th	20:59	4002	'294' 00000

**S06s log June:**

Monday			
4th/11th	1200/1210	10230/12165	'831' 502 6 28786 41439 96412 44260 48989 43081
Tuesday			
5th/12th	0600/0610	16735/15230	'438' 201 5 33691 31575 83111 35939 45447
19th/26th			'438' 209 5 67656 45323 78794 12154 58742
5th/12th	0700/0715	5430/6780	'374' 962 5 16444 55878 21544 57224 56455
19th/26th			'374' 256 8 48974 79473 41657 04149 34653 23543 03759 27731
5th/12th	0800/0810	14373/12935	'352' 870 6 42951 86255 29874 85324 45788 28446
19th/26th			'352' 468 7 52441 27731 13543 72510 54059 10254 30857
5th/12th	1500/1510	6666/7744	'537' 842 6 groups (too weak to copy)
19th/26th			'537' 206 8 10254 30857 54567 52414 52435 79483 23543 03759
Wednesday			
6th/13th	0530/0540	11435/12650	'153' 986 7 71625 37378 90487 65748 00981 23564 98789
20th/27th			'153' 269 7 25995 24559 75641 47027 16444 64542 82845
6th/13th	0730/0740	7335/11830	'745' 280 6 92456 38689 90116 49319 43957 15782
20th/27th			'745' 203 6 25480 11286 49374 54545 30857 10354
6th/13th	0820/0830	6755/5835	'471' 895 6 80518 32192 02715 03553 07436 58545
20th/27th			'471' 809 5 28786 45581 80565 28799 86420
6th/13th	0840/0850	10120/9670	'328' 510 6 78542 15950 59711 31005 92042 12247
20th/27th			'328' 547 6 45856 47885 14500 69943 67945 24323
6th/13th	1000/1010	14580/16020	'729' 413 5 38518 77374 30467 55340 91715
20th/27th			'729' 401 5 08935 13245 38573 08923 67854
6th/13th	1200/1210	7765/6815	'481' 903 5 37143 53709 28079 11719 75034 ?
20th/27th			'481' 907 5 08977 35421 89645 48721 08976
6th/13th	1230/1240	7545/8220	'967' 240 5 93853 43274 22053 49586 22447
20th/27th			'967' 820 5 13243 64543 08988 68798 57632
Thursday			
7th/14th	0800/0810 (E17z)	16780/12850	'674' 952 8 82134 03132 90228 84253 71479 07473 29637 26987
21st/28th			'674' 810 5 04551 70258 49094 32047 77189
7th/14th	0900/0910	12952/13565	'167' 240 5 74223 93755 58720 61983 23449
21st/28th			'167' 890 5 16444 64542 82845 99453 55504
7th/14th	0930/0940	9255/7630	'314' 298 5 70777 65053 15030 77702 37229
21st/28th			'314' 960 5 ????? 04149 34653 14500 69?43
7th/14th	1200/1210	12165/14535	'425' 931 6 73377 88248 52575 09348 68771 43147
21st/28th			'425' 918 6 42951 86255 29874 85324 45788 86502
Friday			
1st/8th	0600/0610	7845/9125	'196' 430 5 02815 75516 90878 53614 42564
15th/22nd			'196' 803 5 02815 75516 90878 53614 42564
1st/8th	06000610	8720/10415	'934' 510 6 86502 04551 70158 49094 32047 57885
15th/22nd			'934'
1st/8th	0930/0940	10290/9655	'516' 923 7 83746 78789 36274 91820 04637
15th/22nd			'516'
Saturday			
2nd	1200/1210	12460/10250	'254' 807 6 46632 10965 33920 09648 25341 70762

**Repeated groups:**

See Friday above. ID 196 – same message but with different intro.

Then again the E17z looks like the same message as S06s ID 352. The E17z reception was very poor so groups were uncertain.

Tuesday	19/06/2012	08:00	14373	S06s	352 468 7 52441 27731 13543 72510 54059 10254 30857
Thursday	17/05/2012	08:00	16780	E17z	674 509 8 52441 37733 13543 73510 ?4059 ???

## Others logs, starting with S06:

### May 2012:

6183kHz1605z	12/05[134 00000] Medium signal strength, moderate noise	FR	SAT
6984kHz1905z	03/05[349 00000] Very strong signal, weak noise	FR	THU
1905z	07/05[349 00000] 1909z Fair QRN2 QSB2	Spectre	MON
1905z	21/05[349 00000] 1909z Strong QRN3 QSB2	Spectre	MON
1905z	24/05[349 00000] 1909z Strong QRN4 QSB2	Spectre	THU
1905z	28/05[349 00000] 1909z Strong QRN3 QSB2	Spectre	MON
7982kHz1900z	14/05[349 00000] 1904z Fair QRN3 QSB2	Spectre	MON
1900z	31/05[349 00000]	HJH	THU
8157kHz1600z	19/05[134 00000] 1604z Fair QRN3 QSB2	Spectre	SAT

### S06

### June 2012:

6916kHz2000z	02/06[416 00000] 2004z Fair QRN4 QSB3	Spectre	SAT
2000z	16/06[416 00000] 2004z Strong	(4m11s) PLdn, Spectre	SAT
6984kHz1905z	14/06[349 00000] 1909z Strong QRN3 QSB3	Spectre	THU
1905z	18/06[349 00000] 1909z Fair QRN3 QSB3	Spectre, HJH	MON
1905z	21/06[359 00000] Good audio	HJH	THU
7847kHz1900z	02/06[416 00000] 1904z Fair QRN3 QSB2	Spectre	SAT
1900z	16/06[416 00000] 1904z Strong	(4m11s) PLdn, Spectre	SAT
7884kHz1930z	02/06[843 00000] 1934z Fair QRN3 QSB2	Spectre	SAT
1930z	09/06[843 00000] 1934z Weak QRN3 QSB3	Spectre	SAT
1930z	16/06[843 00000] 1934z Strong	(4m01s) PLdn, Spectre	SAT
7982kHz1900z	04/06[349 00000]	HJH, Kopf	MON
1900z	07/06[349 000]1902z S7	M8	THU
1900z	11/06[349 00000] 1904z Fair QRN4 QSB3	Spectre	MON
1900z	25/06[349 00000.....]1903z S9+10	M8	MON
8157kHz1600z	02/06[134 00000] 1604z Weak QRN3 QSB3	Spectre	SAT
1600z	09/06[134 00000] 1604z Weak QRN3 QSB3	Spectre	SAT
1600z	16/06[134 00000] 1604z Weak QRN3 QSB3	Spectre	SAT

### S06b

14736kHz0930z	04/05[842 156 2 11111 00056 156 2 00000]	RNGB	FRI
14736kHz0930z	10/05[842 156 2 11111 00056 2 then 842 907 35 39894 46459 23603 20508.....36570 907 35 00000]	RNGB	THU

### S06c

11436kHz0630z	16/05[11206] end 0634	RNGB	WED
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### S06e

### S06s

### May 2012:

6125kHz1210z	16/05[481 926 5 54351 23435 65646 29319 44564 926 926 00000 Strong signal, low audio,	FR	WED
6666kHz1500z	01/05[537.....00000]1505z Very Weak	M8	TUE
7335kHz0730z	30/05[745 00000(s)] 0734z Weak QRN3 QSB3	Spectre	WED
7545kHz1200z	16/05[481 926 5 54351 23435 65646 29319 44564 929 926 00000] Very strong signal, weak noise, note error at end	FR	WED
7744kHz1510z	01/05[537.....00000]1515z Very Weak	M8	TUE
7845kHz0600z	04/05[196 432 5 39580 73919 35941 53041 78651 432 5 00000] Very strong signal, weak noise	FR	FRI
0600z	18/05[196 832 5 43439 48619 45061 84352 80619 832 5 00000] Strong signal, weak noise	FR	FRI
9125kHz0610z	04/05[196 432 5 39580 73919 35941 53041 78651 432 5 00000] Strong signal, weak noise	FR	FRI
0610z	18/05[196 832 5 43439 48619 45061 84352 80619 832 5 00000] Very strong signal, QRM	FR	FRI
9655kHz0940z	04/05[516 802 7 01928 73645 67438 90126 78329 88210 88755 802 7 00000] Fair, QRM	FR, M8, Spectre	FRI
0940z	11/05[516 802 7 01928 73645 67438 90126 78329 88210 88735 802 7 00000(s)] 0946z Weak QRN3 QSB3	Spectre	FRI
10230kHz1200z	28/05[831 00000(s)] Weak RTTYQRM3 QSB3	Spectre	MON

10290kHz0930z	04/05[516 802 7 01928 73645 67438 90126 78329 88210 88755 802 7 00000] Strong, QRM	FR, M8	FRI
0930z	11/05[516 802 7 01928 73645 67438 90126 78329 88210 88735 802 7 00000(s)] 0936z Weak QRN3 QSB3	Spectre	FRI
0930z	18/05[516 820 7] Strong signal, noise too strong to make a reliable copy	FR	FRI
11435kHz0530z	02/05[153 498 6 57634 23175 89674 56474 90785 33153 498 6 00000(s)] 0535z Fair QRN3 QSB3	Spectre	WED
0530z	09/05[153 498 6 57634 23175 89674 56474 90785 33153 498 6 00000(s)] 0535z Weak QRN3 QSB3	Spectre	WED
11830kHz0740z	30/05[745 00000(s)] 0743z Weak QRN3 QSB3	Spectre	WED
12155kHz 1200z	03/05[425 801 6 09867 76817 64753 12049 12846 84135 801 6 00000(s)] 1205z Fair QRN3 QSB3	Spectre, M8	THU
1200z	10/05[425 801 6 09867 76817 64753 12049 12846 84135 801 6 00000(s)] 1205z Weak QRN3 QSB3	Spectre	THU
1200z	17/05[425 831 6 88489 43545 97606 48665 45887 81606 831 6 00000(s)] 1205z Strong QRN2 QSB2	Spectre, Rene	THU
1200z	24/05[425 831 6 88489 43545 97606 48665 45887 81606 831 6 00000(s)] 1205z Weak QRN3 QSB3	Spectre	THU
1200z	31/05[425 00000(s)] 1204z Fair QRN3 QSB3	Spectre, M8	THU
12165kHz1210z	28/05[831 00000(s)] Weak QRN3 QSB3	Spectre	MON
12650kHz0540z	02/05[153 498 6 57634 23175 89674 56474 90785 33153 498 6 00000(s)] 0545z Fair QRN3 QSB3	Spectre	WED
0540z	09/05[153 498 6 57634 23175 89674 56474 90785 33153 498 6 00000(s)] 0545z Weak QRN3 QSB3	Spectre	WED
12935kHz0810z	01/05[352 809 6 32265 63517 44664 74588 57108 80135 809 6 00000]0815z S3	M8	TUE
0810z	08/05[352 809 6 32265 63517 44664 74588 57108 80135 809 6 00000]0815z S2	M8	TUE
0810z	22/05[352 914 6 57950 37108 42451 64572 55715 46644 914 6 00000]0815z S1	M8	TUE
0809z	29/05[352 00000.....]0813z S4	M8	TUE
12952kHz0900z	03/05[167 203 5 89765 45321 79865 08978 46522 203 5 00000]1005z S9+20	M8	THU
0900z	17/05[167 208 5 39502 39422 84487 48836 87714 208 5 00000(s)] 0905z Strong QRN3 QSB2	Spectre, M8	THU
0900z	24/05[167 208 5 39502 39422 84487 48836 87714 208 5 00000(s)] 0905z Weak QRN3 QSB3	Spectre, M8	THU
0900z	31/05[167 00000(s)] 0904z Fair QRN3 QSB3	Spectre, M8	THU
13565kHz0910z	03/05[167 203 5 89765 45321 79865 08978 46522 203 5 00000]1015z S9+20	M8	THU
0910z	17/05[167 208 5 39502 39422 84487 48836 87714 208 5 00000(s)] 0915z Strong QRN3 QSB2	Spectre, M8	THU
0910z	24/05[167 208 5 39502 39422 84487 48836 87714 208 5 00000(s)] 0915z Weak QRN3 QSB3	Spectre, JO	THU
0910z	31/05[167 00000(s)] 0913z Fair QRN3 QSB3	Spectre, M8	THU
14373kHz0800z	01/05[352 809 6 32265 63517 44664 74588 57108 80135 809 6 00000]0805z S8	M8	TUE
0800z	08/05[352 809 6 32265 63517 44664 74588 57108 80135 809 6 00000]0805z S5	M8	TUE
0800z	22/05[352 914 6 57950 37108 42451 64572 55715 46644 914 6 00000]0805z S4	M8	TUE
0800z	29/05[352 00000.....]0804z S4	M8	TUE
14535kHz1210z	03/05[425 801 6 09867 76817 64753 12049 12846 84135 801 6 00000]1215z S9	M8, Spectre	THU
1210z	10/05[425 801 6 09867 76817 64753 12049 12846 84135 801 6 00000(s)] 1215z Weak QRN3 QSB3	Spectre	THU
1210z	17/05[425 831 6 88489 43545 97606 48665 45887 81606 831 6 00000(s)] 1215z Strong QRN2 QSB2	Spectre	THU
1210z	24/05[425 831 6 88489 43545 97606 48665 45887 81606 831 6 00000(s)] 1215z Weak QRN3 QSB3	Spectre	THU
1210z	31/05[425 00000(s)] 1213z Fair QRN3 QSB3	Spectre, M8	THU
14580kHz1000z	02/05[729 438 5 64187 78241 28093 20376 86953 438 5 00000(s)] 1005z Fair QRN4 QSB3	Spectre	WED
1000z	09/05[729 438 5 64187 78241 28093 20376 86953 438 5 00000(s)] 1005z Weak QRN3 QSB3	Spectre	WED
1000z	30/05[729 00000(s)] 1004z Weak QRN3 QSB3	Spectre	WED
15230kHz0610z	01/05[438 217 5 01876 45632 89765 45567 11987 217 5 00000(s)] 0615z Weak QRN3 QSB3	Spectre	TUE
0610z	08/05[438 217 5 01876 45632 89765 45567 11987 217 5 00000(s)] 0615z Fair QRN4 QSB3	Spectre	TUE
16020kHz1010z	02/05[729 438 5 64187 78241 28093 20376 86953 438 5 00000(s)] 1015z Fair QRN3 QSB3	Spectre	WED
1010z	09/05[729 438 5 64187 78241 28093 20376 86953 438 5 00000(s)] 1015z Fair QRN3 QSB3	Spectre	WED
1010z	30/05[729 00000(s)] 1013z Weak QRN3 QSB3	Spectre	WED
16735kHz0600z	01/05[438 217 5 01876 45632 89765 45567 11987 217 5 00000(s)] 0605z Weak QRN3 QSB3	Spectre	TUE
0600z	08/05[438 217 5 01876 45632 89765 45567 11987 217 5 00000(s)] 0605z Fair QRN4 QSB3	Spectre	TUE

# **S06s**

## **June 2012:**

5430kHz0700z	05/06[374 962 5 16444 55878 21544 57224 56455] 0705z Fair XJT-QRM4	Hans	TUE
5835kHz0830z	06/06[471 895 6 80518 32192 02715 03553 07436 58545 895 6 00000]0835z S1	M8	WED
6755kHz0820z	06/06[471 895 6 80518 32192 02715 03553 07436 58545 895 6 00000]0825z S1	M8	WED
6780kHz0715z	05/06[374 962 5 16444 55878 21544 57224 56455] 0720z Strong XJT-QRM3	Hans	TUE
6815kHz1210z	06/06[481.....]very weak	M8	WED
7545kHz1230z	06/06[967.....]very weak	M8	WED
7744kHz1510z	05/06[537.....]very weak	M8	TUE
7765kHz1200z	06/06[481.....]very weak	M8	WED
7845kHz0600z	01/06[196 430 5 02815 75516 90878 53614 42564 430 5 00000]* Very strong signal, error	FR	FRI
0600z	08/06[196 430 5 02815 75516 90878 53614 42564 430 5 00000] Very strong, QRM	FR	FRI
8220kHz1240z	06/06[967.....]very weak	M8	WED

9125kHz0610z	01/06[196 430 5 02815 75516 90878 53614 42564 430 5 00000]* Very strong signal, error *Error during the call of both transmissions, normally it would just repeat 196 until message but 796 was called once in each transmission (towards the end of the first call and near the beginning of the second call).	FR	FRI
9655kHz0940z	01/06[516 923 7 83746 78789 36274 91820 04637 34490 923 7 00000]* Strong signal, error	FR	FRI
0940z	08/06[516 923 7 83746 78789 36274 91820 04637 34490 923 7 00000] Fair, no 7th grp	FR, M8	FRI
9670kHz0850z	06/06[328 510 6 78542 15950 59711 31005 92042 12247 510 6 00000]0855z S5	M8	WED
10120kHz0840z	06/06[328 510 6 78542 15950 59711 31005 92042 12247 510 6 00000]0845z S2	M8	WED
10290kHz0930z	01/06[516 923 7 83746 78789 36274 91820 04637 34490 923 7 00000]* Strong signal,QRM error *The 7th group was missing in both transmission, rptd ag 08/06s	FR	FRI
0930z	08/06[516 923 7 83746 78789 36274 91820 04637 34490 923 7 00000] Strong, QRM, no 7th grp	FR, M8	FRI
12155kHz1200z	07/06[425 931 6 73377 88248 52575 09348 68771 43147 931 6 0 0 0 0 0] 1205z QSA5	JO	THU
12935kHz0810z	05/06[352 870 6 42951 86255 29874 85324 45788 28446 870 6 00000]0815z S9	M8	TUE
0810z	26/06[352 468 7 52441 27731 13543 72510 54059 10254 30857 468 7 00000]0815z S3	M8, MP	TUE
12952kHz0900z	07/06[167 240 5 74223 .3755 58720 61.83 2344. 240 5 0 0 0 0 0]0905z QSA3 weak mod	JO	THU
13565kHz0930z	07/06[167 240 5 74223 93755 58720 61983 23449 240 5 0 0 0 0 0] QSA4	JO	THU
14373kHz0800z	05/06[352 870 6 42951 86255 29874 85324 45788 28446 870 6 00000]0805z S4	M8, Hans	TUE
0800z	26/06[352 468 7 52441 27731 13543 72510 54059 10254 30857 468 7 00000]0805z S3	M8	TUE
14535kHz1210z	07/06[425 931 6 73377 88248 52575 09348 68771 43147 931 6 0 0 0 0 0] 1205z QSA5	JO	THU
14580kHz1000z	06/06[729 413 5 38518 77374 30467 55340 91715 413 5 00000]1005z S9	M8	WED
16020kHz1010z	06/06[729 413 5 38518 77374 30467 55340 91715 413 5 00000]1015z S9+10	M8	WED

#### PoSW's logs and analysis on S06 etc

Seasonal changes of frequency in May, in general - but not always - moving higher up as the hours of daylight increase.

#### Saturday 1600 or 1605 UTC Schedule:-

5-May-12:- 1605 UTC, 6,983 kHz, "134 134 134 00000", this frequency used at 1605z in May, June, July and August last year or at 1600z on 8,157. In March and April used 7,612 at 1605z or 8,162 at 1600z so this weekly schedule goes against the trend by moving *lower* in the summer months.

12-May-12:- 1605 UTC, 6,983 kHz, "134 134 134 00000", weak signal.

19-May-12:- 1600 UTC, 8,157 kHz, "134 134 134 00000", over-riding an "XJT" which was also noted last year.

26-May-12:- 1600 UTC, 8,157 kHz, "134 134 134 00000", over-riding "XJT". Carrier with tone up 1547z, single "134" after 1548z.

2-June-12:- 1600 UTC, 8,157 kHz, "134 134 134 00000", strong "XJT" for company.

9-June-12:- 1600 UTC, 8,157 kHz, "134 134 134 00000", peaking S8 with deep QSB - and no sign of the "XJT" noise-maker!

16-June-12:- 1600 UTC, 8,157 kHz, "134 134 134 00000", and "XJT" is back.

23-June-12:- 1605 UTC, 6,983 kHz, "134 134 134 00000", "five minute offset" start, signal strength S4 to S5 at best.

#### Saturday 1930 or 1930 UTC Schedule:-

19-May-12:- 1930 UTC, 7,884 kHz, "843 843 843 00000", S9+, very strong signal, close to the Hamburg WEFAX station on 7,880 point something. Hope Ivan here didn't cause too many black lines to appear on the printout of the The Captain's weather chart! This weekly schedule heard in March and April at 1930z, 6,788 kHz or at 1935z, 4,958 kHz.

26-May-12:- 1930 UTC, 7,884 kHz, "843 843 843 00000", S9+, Hamburg WEFAX also very strong, removed by using the receiver in USB mode.

2-June-12:- 1930 UTC, 7,884 kHz, "843 843 843", S6 to S7 this evening, the WEFAX station on the LF side S9+.

16-June-12:- 1930 UTC, 8.30 pm BST, 7,884 kHz, "843 843 843 00000", S9, the Hamburg WEFAX very strong as always.

23-June-12:- 1935 UTC, 6,783 kHz, "843 843 843 00000". First time heard at the 1935z start time since the schedule changed for summer. Search started at 1935z after nothing heard on 7,884 on the half hour, found on 6,783 a couple of minutes into the transmission.

#### Saturday 1900 + 2000 UTC Schedule:-

5-May-12:- 2000 UTC, 6,916 kHz, "416 416 416 00000", S9. Found approx. one minute into the transmission, must be the second sending, first + third Saturdays in the month schedule.

19-May-12:- 1900 UTC, 7,847 kHz, "416 416 416 00000", the first sending, 8 pm and all's well!  
2000 UTC, 6,916 kHz, second sending.

2-June-12:- 1900 UTC, 7,847 kHz, "416 416 416 00000", S7 to S8.  
2000 UTC, 6,916 kHz, second sending peaking S9.

16-June-12:- 1900 UTC, 7,847 kHz, “416 416 416 00000”, a bit weaker than in the past, S5 to S6.  
2000 UTC, 6,916 kHz, second sending, S9.

#### Monday + Thursday 1900 or 1905 UTC Schedule:-

3-May-12, Thursday:- 1905 UTC, 6,984 kHz, “349 349 349 00000”, S9 signal. Seasonal change of frequency from 1900z 5,784 kHz or 1905 UTC, 5,130 kHz used in March and April.

7-May-12, Monday:- 1905 UTC, 6,984 kHz, “349 349 349 00000”, S9+, very strong.

10-May-12, Thursday:- 1905 UTC 6,984 kHz, “349 349 349 00000”, S9+.

17-May-12, Thursday:- 1900 UTC, 7,982 kHz, on the hour start, “349 349 349 00000”, very strong S9+ signal.

21-May-12, Monday:- 1905 UTC, 6,984 kHz, S9+, “349 349 349 00000”.

24-May-12, Thursday:- 1905 UTC, 6,984 kHz, “349 349 349 00000”, S9+ as ever.

28-May-12, Monday:- 1905 UTC, 6,984 kHz, “349 349 349 00000”, S9+.

31-May-12, Thursday:- 1900 UTC, 7,982 kHz, “349 349 349 00000”.

4-June-12, Monday:- 1900 UTC, 7,982 kHz, S9+, “349 349 349 00000”.

7-June-12, Thursday:- 1900 UTC, 7,982 kHz, “349 349 349 00000”, the usual strong signal.

11-June-12, Monday:- 1900 UTC, 7,982 kHz, “349 349 349 00000”, S9+.

14-June-12, Thursday:- 1905 UTC, 6,984 kHz, “349 349 349 00000”, strong signal.

21-June-12, Thursday:- 1905 UTC, 6,984 kHz, “349 349 349 00000”, strong.

#### Second + Fourth Mondays in the Month 1815 + 1915 UTC Schedule:-

14-May-12:- 1815 UTC, 15,835 kHz, calling “426” - for a full message! Not many of those from the S06 OM these days! DK/GC “730 730 95 95”. Found approx. two minutes into the call-up on a frequency inside the 19 metre broadcast band, no strong broadcaster close by but - wouldn't you know it - an “XJT” churning away. Signal fading up and down from S7 to almost unreadable. Ended after 1835 UTC with DKDK GCGC and “00000”.

1922 UTC, 13,490 kHz, second sending found in progress, S8 to S9, almost forgot to search for it, for several years this schedule ran at a later time so got to get used to 7.15 pm and 8.15 pm in this here increasingly dis – United Kingdom.

15-May-12, Tuesday:- 1815 UTC, 15,835 kHz and 1915 UTC, 13,490 kHz, the “next day repeats” of Monday's message.

28-May-12:- 1815 UTC, 15,835 kHz, “426 426 426 00000”.

1915 UTC, 13,490 kHz, second sending.

11-June-12:- 1815 UTC, 7.15 pm BST, 15,910 kHz - higher and higher! “832 832 832 00000”. Varying S3 to S5, good clear audio especially with the receiver in USB mode.

1915 UTC, 13,585 kHz, second sending, inside the 21 metre BC band, side-band splash from a strong station on 13,590.

#### And one report of an S06s YL:-

7-May-12, Monday:- 0900 UTC, 10,170 kHz:- S06s YL calling “371”, DK/GC “204 204 5 5”, then 5Fs “13213 20947 38756 13098 68795”. Today a public holiday in the UK so able to play radio on a weekday. I thought S06s “371” call and frequency 10,170 seemed familiar; this schedule used to run in the summer months on Wednesdays at 1900z, repeated 1910z on 9,110 kHz. And sure enough:-

0910 UTC, 9,110 kHz, repeat sending, a much weaker signal.

The next time I was near a radio on a Monday morning was on 4-June-12, another public holiday, expected this schedule to appear again but nothing found.

#### S11a[III]

##### S11a May/June log:

8530kHz	0915z	01/05 [484/00]		
	0915z	08/05 [484/00]	RNGB	TUE
	0915z	18/05 [482/35 22540 53310 55591 78128 18487.....64664] Weak	RNGB	TUE
	0915z	01/06 [484/00]	RNGB	FRI
	0915z	05/06 [480/30 77413.....11198] Very weak	RNGB	FRI
	0915z	08/06 [480/30 Vnimanie! 77413 12395 74443 45938 .....11198] Strong	RNGB	TUE
	0915z	19/06 [484/00]	Fox	FRI
	0915z	26/06 [484/00] Konec 0918z S1	RNGB	TUE
			Malc	TUE
11581kHz	1020z	01/05 [426/00]		
	1020z	08/05 [426/00]	RNGB	TUE
	1020z	18/05 [426/00]	RNGB	TUE
	1020z	01/06 [426/00] Strong signal, moderate noise	RNGB	THU
	1020z	05/06 [426/00] Weak	Fox	FRI
	1020z	08/06 [426/00] Strong signal, moderate noise	RNGB	TUE
	1020z	19/06 [429/30 69680 99008 65850 25659 46989.....41507]	Fox	FRI
			RNGB	TUE

16530kHz	1015z	07/05 [470/33 60274 26157 24987 73681 63401.....73749] Good	RNGB	MON
	1015z	14/05 [475/00]	RNGB	MON
	1015z	21/05 [475/00]	RNGB	MON
	1015z	28/05 [475/00] Konec 1018z S2	Malc	MON
	1015z	07/06 [477/37 74702 89705 11057 72900 79896.....16860] Weak	RNGB	THU
	1015z	18/06 [475/00] Good	RNGB	MON
	1015z	25/06 [475/00] Konec1018z S3	Malc	MON

#### S21 [XIV]

#### May 2012:

4973kHz	1742z	01/05[973-723/33=74584] //5373	HFD	TUE
	1742z	03/05[973 724 33 74584 ... 34376 000 ] Strong signal QRM, QSB	FR	THU
		973 724 33 74584 93715 18875 28001 68728 83758 84224 11032 21271 64257 20391 11694 18461 61251 54956 22503 50312 55327 68392 88695 11595 52285 83541 ?4003 01409 03824 27446 64916 2886? 21981 78089 52617 04925 34376 000 Courtesy FR		

5373kHz	1742z	01/05[973-723/33=74584] //4973	HFD	TUE
	1742z	22/05[973.....]very weak	M8	TUE
	1742z	31/05[973...785/33.....]1750z S2	M8	THU

#### June 2012:

5373kHz	1742z	05/06[973 915? 30.....]very weak	M8	TUE
5474kHz	1705z	26/06[074 412 412 30 30] Started late 1705z S21 calling 074, after a few minutes changed to CW as M45	GD	TUE

#### **RNGB's logs**

#### **S21 log:**

Tuesday 1st May	17:42	4973	'973' 724 33 74584 93715 18875 28001.....34375
Tuesday 22nd May	17:42	5373	'973' 724 33 74584 93715 18875 28001.....34375
Tuesday 26th June	17:42	5373	'973' 412 30 88038 51758 13267 40607.....

#### V02a [XVIII]

#### **Peter's V02a log, illustrating the propagational problems facing us in Europe with V02a:**

As expected, the V02a YL from Cuba has become weaker as we move into the summer months, the S9+ signals of the winter long left behind - but winter will be here again before we know it. So just a few loggings of this one:-

19-May-12, Saturday:- 0700 UTC, 5,883 kHz, "Atencion, 60802 24742 14481", weak signal.

2-June-12, Saturday:- 0700 UTC, 5,883 kHz, "Atencion, 71182 84412 17841", going against the trend this morning, best signal for some time, S7. The DRM broadcaster on the LF side very strong. The 0800z sending on 5,898 kHz was very weak, unreadable.

5-June-12, Tuesday:- 0700 UTC, 5,883 kHz, "Atencion, 05511 18832 22361". Weak signal, just about readable.

Signals very weak as we move into summer, I think we have said "Adios" to the Senorita from Havana until October!

#### May 2012:

4035kHz	0400z	14/05[A08822 66162 61781] weak	gil	MON
4174kHz	0327z	14/05[i/p] weak	gil	MON
5762kHz	0230z	19/05[i/p] vweak	gil	SAT
	0200z	26/05[] weak V02a mixing with SK01	gil	SAT
5883kHz	0700z	10/05 Weak carrier, characters unreadable	PLdn	THU
	0700z	11/05 Weak carrier, characters unreadable	PLdn	FRI
	0700z	17/05[A60581 46772 66251] strong	gil	THU
	0700z	18/05[A23702 41701 07831] strong	gil	FRI
	0700z	19/05[A60802 24742 14481] fair	gil	SAT
	0700z	20/05[A01661 2136n 24082] Weak, noisy, QRN3	PLdn	SUN
	0700z	20/05[A01661 21361 24082] fair	gil	SUN
	0700z	22/05[A36252 72622 75341] fair	gil	TUE
	0700z	24/05[A30082 14812 34382] fair	gil	THU
	0724z	26/05[i/p] strong	gil	SAT
	0700z	31/05[A78051 82372 04611] strong	gil	THU

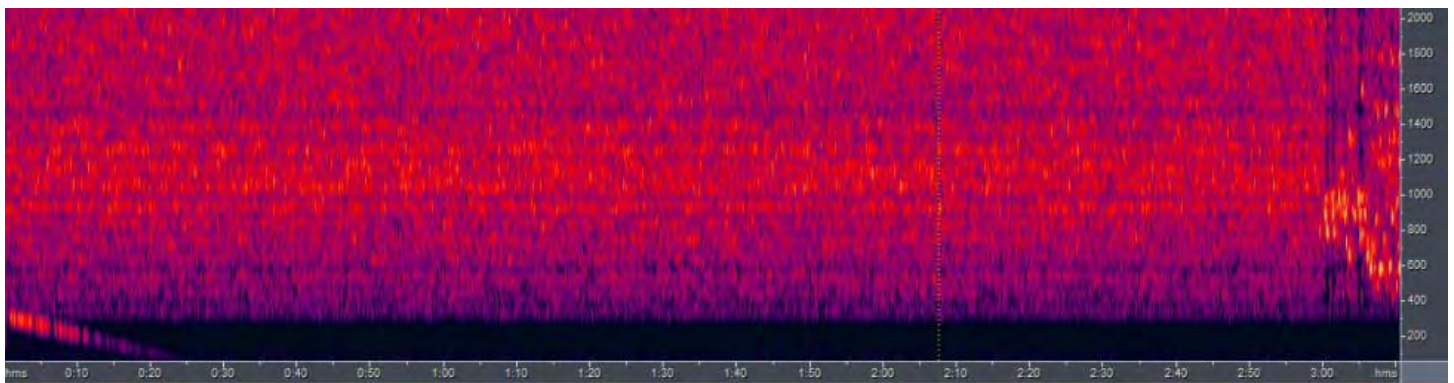
5898kHz0804z	14/05[i/p] strong gil MON		
0800z	17/05[A60581 46772 66251] strong	gil	THU
0800z	18/05[A23702 41701 07831] strong	gil	FRI
0806z	20/05[i/p] strong	gil	SUN
0800z	22/05[A36252 72622 75341] fair	gil	TUE
0812z	31/05[i/p] strong	gil	THU
6768kHz0403z	14/05[A24651 . .] strong	gil	MON
0132z	19/05[i/p] fair	gil	SAT
0418z	21/05[i/p] strong	gil	MON
0100z	26/05[A6711? ?6] fair V02a mixing with SK01	gil	SAT
6855kHz0300z	14/05[A24651 60382 10711] fair	gil	MON
7557kHz2000z	31/05[In progress, 01262, 14501 ] QSA1 with distortion	HT	THU
9240kHz1000z	16/05[47442 76302 76842] QSA4	Herb	WED
1000z	30/05[ 00352, 21582, 36851 ] QSA5	Herb	WED

#### **June 2012:**

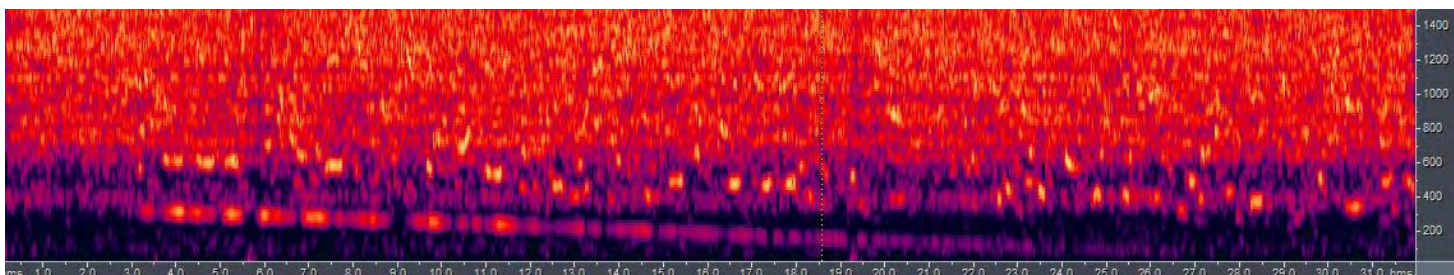
4028kHz0109z	01/06[i/p] vvweak	gil	FRI
0100z	08/06[ ] vweak	gil	FRI
0214z	08/06[i/p] weak expected 5417	gil	FRI
5762kHz0232z	09/06[i/p] weak	gil	SAT
0200z	16/06[A41702 64121 66452] strong	gil	SAT
5883kHz0700z	01/06[A35122 48451 52771] weak	gil	FRI
0700z	02/06[A71182 84412 17841] strong	gil	SAT
0700z	07/06[A63022 85652 07171] strong	gil	THU
0700z	15/06[A60182 73511 86842] strong	gil	FRI
5898kHz0802z	01/06[A35122 . 52771] weak	gil	FRI
0800z	15/06[A60182 73511 86842] strong	gil	FRI
0800z	23/06[A54142 66572 70801 LG 10144] after mesage SK01 at 0850z	DanAr	SAT
6768kHz0100z	02/06[i/p] fair	gil	SAT
0426z	04/06[.75152] strong	gil	MON
0100z	09/06[A00842 13261 26602 ] strong	gil	SAT
0100z	16/06[A41702 64121 66452] strong	gil	SAT
6855kHz 0300z	25/06[A27231 31566 44881] Weak and noisy, unsure of 2nd group	PLdn	MON

#### **V13**

#### **May 2012:**



11430kHz 1200z 16/05 Carrier's drift is visible in spectrogram 3 minutes before audio Image courtesy of DanAR



11430kHz 1200z 16/05 Drift continues once music underway. Image courtesy of DanAR



9276kHz0703z 0700z	10/05 23/05 New Star #3. Musical intro followed by code messages	AB AB-HK	THU WED
11430kHz1300z 0605z 1200z 1200z 1200z 1200z 1300z 0500z 1200z	09/05 music intro YL with msg -weak signal 10/05 i/p 11/05 Music intro YL with msg -weak signal- 13/05 intro music YL with msg , weak signal , local QRM. 14/05 music intro YL with msg , weak signal. 15/05 Transmission started without music intro with a little frequency drift for 12 sec. weak signal. 15/05 Music intro YL with msg -normal transmission- very weak signal. 16/05 Tune + coded messages 16/05 music intro YL with msg. -Carrier's drift is visible in spectrogram 3 minutes before audio See images above. Better signal but weak.-	DanAr, Westli AB DanAr DanAr DanAr DanAr DanAr AB	WED THU FRI SUN MON TUE TUE WED
1300z 0500z 0600z	16/05 music intro YL with msg. -very weak signal 23/05 New Star #4. Music followed by coded messages NRH at 0400z 23/05 New Star #4. Music followed by coded messages	DanAr DanAr AB-HK AB-HK	WED WED WED WED

### June 2012:

9276kHz0700z	18/06 V13 New Star #3. Flute intro + coded messages USB	AB-HK	MON
9276kHz0808z	18/06 V13 New Star in progress USB	AB-HK	MON
9276kHz0705z	23/06 USB New Star in progress AB-HK SAT		
9276kHz0800z	23/06 USB New Star #3. Musical intro followed by coded messages AB-HK SAT		
11430kHz1200z	07/06 YL transmission started late , with carrier's frequency drift and only 16'32" instead 30' long	DanAr	THU
11430kHz0514z	18/06 New Star in progress USB	AB-HK	MON
11430kHz0610z	18/06 New Star in progress USB	AB-HK	MON
11430kHz1200z	23/06 [Chinese Flute Music Followed By 5 Fig Groups] 1229z Weak QRN3 QSB3 Spectre SAT		

### V16

The late May intercepts can be perused in the editorial. It would appear from two inputs, thanks Ary, T and Jochen there is a confusion over the ID. Whilst ENIGMA2000 will go with V16 please bear in mind the possibility of V25.

Spectre sent us the Chinese Number System. [Particular attn to Yi/Yao pse].

Ling = Zero  
Yi/Yao = One (It appears there is a radio version of Yao. On the telephone it is pronounced Yi; also heard in V16)  
Er = Two  
San = Three  
Si = Four (The number four in Chinese is always unlucky, because it sounds the same as the word for death which is also pronounced 'Si' but with a different tone).  
Wu = Five  
Liu = Six  
Qi = Seven  
Ba = Eight  
Jiu = Nine

Shi = Ten

Bai = One Hundred

Wan = One Thousand

Spectre reminds us that Chinese numbers are constructed a little differently.

For example:

San = Three

San Shi = Thirty. In English they are saying Three and Ten.

San Shi Jiu = Thirty Nine. In English they are saying Three, Ten and Nine.

San Bai = Three Hundred. In English they are saying Three and One Hundred.

San Wan = Three Thousand. In English they are saying Three and One Thousand.

Thanks Spectre, most useful.

## V16 June2012

11147kHz1359z      01/06      AM, YL, CC, null message  
Message 1, 1359:26z to 1404:17z  
Message 2, 1409:14z to 1414:11z  
Message 3, 1419:37z to 1424:34z

T

FRI

T writes

It appears the recently found possible V16 transmissions have a schedule of Monday (11493 kHz), Wednesday (11323 kHz), and Friday (11147 kHz), with three transmissions each morning between the times of 1358z and 1430z. I have looked during the "off" mornings and so far not found it on other frequencies or times.

V16 1359z 11493kHz 4 June 2012, [no business]  
V16 1409z 11493kHz 4 June 2012, [no business]  
V16 1418z 11493kHz 4 June 2012, [no business]

This morning, June 6, 2012, a carrier came up on the anticipated 11323 kHz frequency at the right time (about 1358z). Several seconds latter audio started, as occurs with V16. However, the audio was a talk radio program in Chinese. 5 minutes later, when V16 normally ends, the audio was shut off and a few seconds after that the carrier was off-air.

At 1408z the carrier again came up on frequency, again the right time for V16.

After about 15 seconds of carrier the audio started, but again it was BC station audio of a man and a woman talking. During this time I flipped around through various Chinese language BC stations trying to find a match. The closest I could come up with was CRI on 11610 kHz, but I am not sure it was the exact programming. I only had one SW RX with me and had to switch back and forth between the frequencies. At about 1413z the audio was turned off, and several seconds later the carrier went away, again as expected with V16.

At 1418z the carrier again came online, and about 15 seconds later the BC station audio started up. It continued until 1423, the anticipated end time for a V16 transmission.

I think I understand why the V16 signal has been so strong at my location. If this V16 is sourced from one of the same transmitter facilities as CRI it is probably on the order of 100 kW to 500 kW power. It is a pretty safe assumption from the activities this morning that the technician selected the wrong audio source and meant to be transmitting the V16 message, but instead transmitted some SW BC station audio instead.

I know we have seen these errors form V02/M08/SK01 before, but how many other numbers stations have pulled the same error?

Futher writings from T describe the schedule and a possible change:

Since I first reported finding the Chinese Language V16 on 11493 kHz a couple of weeks ago I have been watching the station, trying to determine a schedule.

V16 weekly Schedule:

Monday, starting about 1400 UTC, 11493 kHz, AM, three transmissions each about 5 minutes long  
Wednesday, starting about 1400 UTC, 11323 kHz, AM, three transmissions each about 5 minutes long  
Friday, starting about 1400 UTC, 11147 kHz, AM, three transmissions each about 5 minutes long

The start times for the first transmission are somewhat variable, with anything from 1358 to 1400 seen. Each time slot consist of three transmissions between 1358 and 1430 UTC (start times on average 1359, 1409, and 1419 UTC), the audio for each transmission is about 5 minutes long. The carrier generally comes on-air about 5 to 20 seconds before the audio starts, and goes off-air about 5 to 15 seconds after the audio completes.

It appears there is also a 1500 UTC V16 time slot for the same days, but I do not have all the frequencies yet. The partial recordings I have of this time slot indicates similar number of messages, message lengths, and message spacing as the 1400 UTC time period.

Last week the Wednesday (June 6, 2012, 11323 kHz) and Friday (June 8, 2012, 11147 kHz) 1400 UTC time slots contained what are probably error transmissions. The cycle of carrier on, delay, audio start, and the start times for each transmission matched the other recently observed V16 activity, however the message sent was not the same. It sounded, instead, like a Chinese language news/current events/talk show. Each of the three transmissions in the scheduled period sounded unique, not all the same, as if it was still three different messages. Wednesday msg 1 sounded like Friday msg 1, and Wednesday msg 2 sounded like Friday msg 2, etc.

Video of the "error" message here: <http://www.youtube.com/watch?v=42qPDGEI1h4>

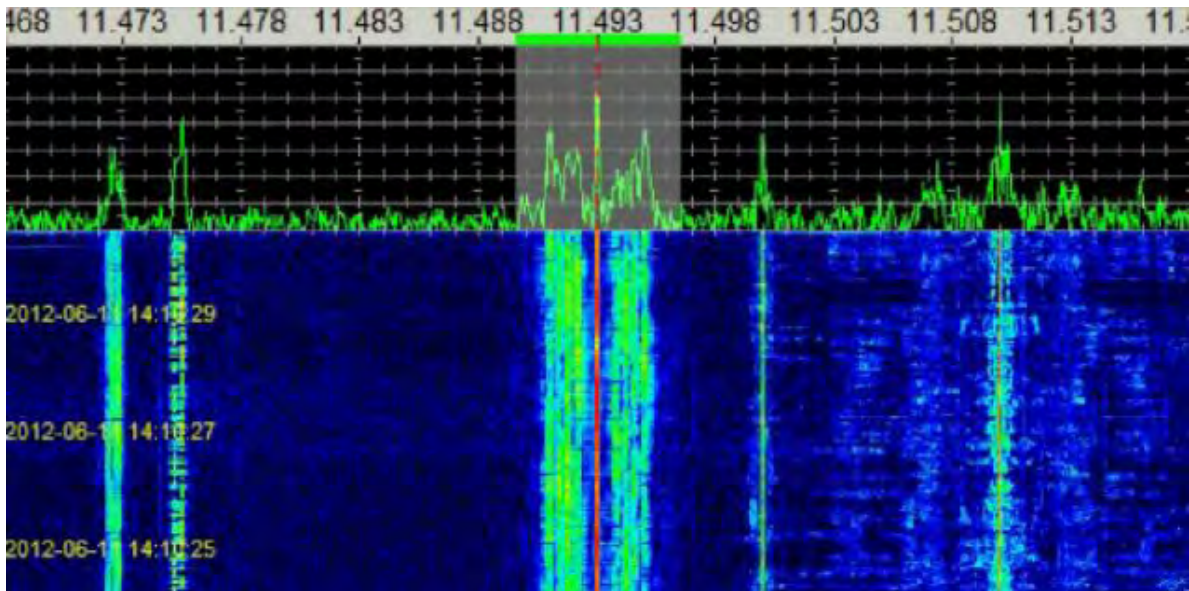
Monday, June 11, 2012, I again recorded for the 1400 time slot, on the 11493 kHz freq. As normal there were three transmissions, each with approximately the correct start time, the correct length, and the correct carrier/start audio relationship. However, the signal sent was a digital modem of some kind, sent in full AM. It appears as if there were two digital transmissions, each about 2 minutes and 3 seconds long for each 5 minute carrier on time.

Video of the digital signal here: <http://www.youtube.com/watch?v=s8nsQcVIskA>

It is possible we are seeing the development of a new digital numbers station associated with V16, rather like SK01 is associated with V02/M08.

Thanks T!

For those without access to a PC we show a still from T's youtube offering on the digital transmission [centre of screen].



Screenshot from T's <http://www.youtube.com/watch?v=s8nsQcVIskA>

I have found a 1400 and 1500 UTC time slot for this station on Mondays, Wednesdays, and Fridays, each on a different frequency. I say 1400 and 1500 UTC, but that is only an approximate, the start times have been seen as early as 1358 and 1459 in each slot. Typically there are multiple transmissions (3 when voice, most frequently 6 when digital) between the start time and about 25 minutes after the hour. The carrier comes up and goes down multiple times in that time period.

Monday, 1400, 11493 kHz AM  
Monday, 1500, 12769 kHz AM

Wednesday, 1400, 11323 kHz AM  
Wednesday, 1500, 12501 kHz AM

Friday, 1400, 11147 kHz AM  
Friday, 1500, 12123 kHz AM

On June 6 and June 8 there was what appear to be error transmissions during the 1400 time slots, a Chinese language talk/news program was sent instead of the anticipated V16 messages.

The last V16 format voice transmission I received was on June 8, 2012, during the 1500 time slot, on 12123 kHz. Since that time the only transmissions I have heard have been the digital format.

The digital format, except for a few transmissions that appear to be errors, is typically a message about 2 minutes and 3 or 4 seconds long. Most commonly a carrier will come on air and two digital transmissions will occur, and then the carrier will go off air, so that the total carrier on time is roughly 5 or 6 minutes for the 2 digital messages sent. On an average day the carrier comes up 3 times in the given time slot and 6 digital messages total are sent.

Recordings of all transmissions to date are available.

My V16 and associated transmission receptions, May 28 to June 22, 2012:

11493 kHz ~1413 – 1418:47 05/28/2012 V16 Tuned in progress  
11493 kHz 1419:09 – 1424:07 05/28/2012 V16

11323 kHz ~1359 – 1404:23 05/30/2012 V16 Tuned in progress  
11323 kHz 1409:22 – 1414:19 05/30/2012 V16  
11323 kHz 1419:09 – 1424:07 05/30/2012 V16

11147 kHz 1359:28 – 1404:16 06/01/2012 V16  
11147 kHz 1409:13 – 1414:10 06/01/2012 V16  
11147 kHz 1419:36 – 1424:33 06/01/2012 V16

11493 kHz 1359:31 – 1404:29 06/04/2012 V16  
11493 kHz 1408:51 – 1413:50 06/04/2012 V16  
11493 kHz 1419:07 – 1424:05 06/04/2012 V16

11323 kHz 1359:04 – 1404:16 06/06/2012 Error talk show  
11323 kHz 1409:14 – 1414:26 06/06/2012 Error talk show  
11323 kHz 1418:33 – 1423:44 06/06/2012 Error talk show

12501 kHz ~1520 – 1524:11 06/06/2012 V16 Tuned in progress

11147 kHz 1358:33 – 1403:48 06/08/2012 Error talk show  
11147 kHz 1408:58 – 1413:43 06/08/2012 Error talk show  
11147 kHz 1419:00 – 1424:14 06/08/2012 Error talk show

12123 kHz ~1508 – 1513:44 06/08/2012 V16 Tuned in progress  
12123 kHz 1518:57 – 1523:53 06/08/2012 V16

11493 kHz 1402:37 – 1404:41 1405:02 – 1407:05 06/11/2012 Digital Carrier remained up both sets  
11493 kHz 1410:06 – 1412:10 1412:49 – 1414:53 06/11/2012 Digital Carrier remained up both sets  
11493 kHz 1420:09 – 1422:12 06/11/2012 Digital  
11493 kHz 01424:59 – 1427:13 06/11/2012 Digital

11323 kHz 1402:37 – 1404:40 1405:30 – 1407:33 06/13/2012 Digital Carrier remained up both sets  
11323 kHz 1410:28 – 1412:32 06/13/2012 Digital  
11323 kHz 1413:34 – 1415:36 06/13/2012 Digital  
11323 kHz 1419:49 – 1421:52 1422:08 – 1424:12 06/13/2012 Digital Carrier remained up both sets 1

12501 kHz 1503:00 – 1505:03 06/13/2012 Digital  
12501 kHz 1511:08 – 1513:12 1513:39 – 1515:43 06/13/2012 Digital Carrier remained up both sets  
12501 kHz 1519:51 – 1521:55 1522:09 – 1524:13 06/13/2012 Digital Carrier remained up both sets

11147 kHz 1401:00 – 1401:08 1401:36 – 1403:40 1403:58 – 1405:57  
06/15/2012 Digital Carrier remained up for all three data TXs

11147 kHz 1410:46 – 1412:50 1413:11 – 1415:15 06/15/2012 Digital Carrier remained up both sets  
11147 kHz 1420:13 – 1422:17 1422:29 – 1424:33 06/15/2012 Digital Carrier remained up both sets

12123 kHz 1500:49 – 1502:53 1503:11 – 1505:13 06/15/2012 Digital Carrier remained up both sets  
12123 kHz 1509:59 – 1512:03 1512:22 – 1514:26 06/15/2012 Digital Carrier remained up both sets  
12123 kHz 1520:21 – 1522:25 1522:43 – 1524:47 06/15/2012 Digital Carrier remained up both sets

11493 kHz 1400:09 – 1402:13 1402:57 – 1405:01 06/18/2012 Digital Carrier remained up both sets  
11493 kHz 1411:10 – 1413:14 1413:23 – 1415:27 06/18/2012 Digital Carrier remained up both sets  
11493 kHz 1419:54 – 1421:58 1422:12 – 1424:15 06/18/2012 Digital Carrier remained up both sets

12769 kHz 1500:50 – 1502:54 1503:12 – 1505:15 06/18/2012 Digital Carrier remained up both sets  
12769 kHz 1510:02 – 1512:05 1512:16 – 1514:19 06/18/2012 Digital Carrier remained up both sets  
12769 kHz 1519:40 – 1521:44 1521:56 – 1524:00 06/18/2012 Digital Carrier remained up both sets

11323 kHz 1359:03 – 1400:58 1401:13 – 1403:17 06/20/2012 Digital Carrier remained up both sets  
11323 kHz 1409:39 – 1411:43 1412:13 – 1414:17 06/20/2012 Digital Carrier remained up both sets  
11323 kHz 1419:42 – 1421:46 1422:03 – 1424:07 06/20/2012 Digital Carrier remained up both sets

12501 kHz Multiple time slots between 1459 and 1525, rec bad 06/20/2012 Digital

11147 kHz 1359:05 – 1400:43 1401:01 – 1403:05 06/22/2012 Digital Carrier remained up both sets  
11147 kHz 1410:03 – 1412:07 1412:37 – 1414:41 06/22/2012 Digital Carrier remained up both sets  
11147 kHz 1419:08 – 1421:12 1421:45 – 1423:49 06/22/2012 Digital Carrier remained up both sets

12123 kHz 1459:23 – 1501:27 1501:37 – 1503:40 06/22/2012 Digital Carrier remained up both sets  
12123 kHz 1509:25 – 1511:29 1511:54 – 1513:57 06/22/2012 Digital Carrier remained up both sets  
12123 kHz 1518:37 – 1520:41 1520:50 – 1522:53 1523:09 – 1525:13 06/22/2012 Digital Carrier remained up for all three sets

#### **Polvtones:**

#### **NEW XPA schedule:**

11409kHz0600z	27/06[456 000 06312 00001 10140]	RNGB	WED
13509kHz0620z	27/06[456 000 06312 00001 10140]	RNGB	WED
14609kHz0640z	27/06[456 000 06312 00001 10140]	RNGB	WED

#### **XPA2**

#### **May 2012:**

Sun/Tue

14538kHz2000z	13/05[03962 00001 00000 10140]	RNGB	SUN
14538kHz2000z	15/05[08319 00001 00000 10140]	RNGB	TUE
14538kHz2000z	20/05[00253 00087 52290 44531]	RNGB	SUN

Wed

18436kHz1200z	02/05[06252 00098 01622 40161]	RNGB	WED
17474kHz1210z	02/05[06252 00098 01622 40161]	RNGB	WED
16156kHz1220z	02/05[06252 00098 01622 40161]	RNGB	WED
18399kHz1300z	02/05[06252 00098 01622 40161]	RNGB	WED
/ ? / 1310z			
17437kHz1320z	02/05[06252 00098 01622 40161]	RNGB	WED

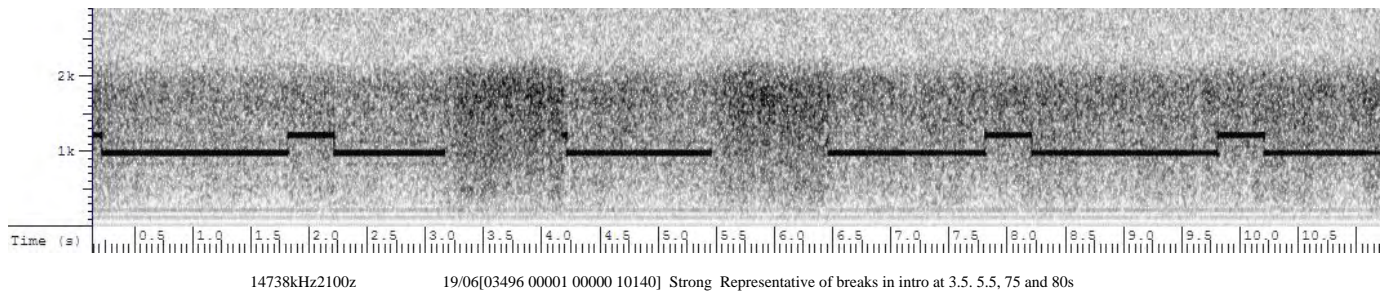
Fri/Sat

17462kHz1900z	18/05[00509 00081 57922 32675] Very strong	(3m14s)	PLdn	FRI
16114kHz1920z	18/05[00509 00081 57922 32675] Strong	(3m14s)	PLdn	FRI
14828kHz1940z	18/05[00509 00081 57922 32675] Strong	(3m14s)	PLdn	FRI
17462kHz1900z	19/05[00509 00081 57922 32675] Very strong	(3m14s)	RNGB, PLdn	SAT
16114kHz1920z	19/05[00509 00081 57922 32675] Very strong	(3m14s)	RNGB, PLdn	SAT
14828kHz1940z	19/05[00509 00081 57922 32675] Very strong	(3m14s)	RNGB, PLdn	SAT
17462kHz1900z	25/05[04580 00001 00000 10140] Very strong	(2m26s)	PLdn	FRI
16114kHz1920z	25/05[04580 00001 00000 10140] Very strong	(2m26s)	PLdn	FRI
14828kHz1940z	25/05[04580 00001 00000 10140] Very strong	(2m26s)	PLdn	FRI
17462kHz1900z	26/05[04580 00001 00000 10140] Very strong		BR	SAT
16114kHz1920z	26/05[04580 00001 00000 10140] Very strong		BR	SAT
14828kHz1940z	26/05[04580 00001 00000 10140] Very strong,BCQRM2		BR	SAT

## June 2012:

Sun/Tue

14738kHz2100z	05/06[00739 00069 23752 26242] Very strong, S9+30db		RNGB	TUE
13438kHz2120z	05/06[00739 00069 23752 26242] Very strong, S9+30db		RNGB	TUE
12138kHz2140z	05/06[00739 00069 23752 26242] Very strong, S9+30db		RNGB	TUE
14738kHz2100z	10/06[00384 00095 76077 51317] Fair	(3m25s)	PLdn	SUN
13438kHz2120z	10/06[00384 00095 76077 51317] Fair	(3m25s)	PLdn	SUN
12138kHz2140z	10/06[00384 00095 76077 51317] Strong	(3m25s)	PLdn	SUN
14738kHz2100z	12/06[00384 00095 76077 51317] Strong	(3m25s)	PLdn	TUE
13438kHz2120z	12/06[00384 00095 76077 51317] Strong	(3m25s)	PLdn	TUE
12138kHz2140z	12/06[00384 00095 76077 51317] Very strong	(3m25s)	PLdn	TUE
14738kHz2100z	19/06[03496 00001 00000 10140] Strong Breaks in intro at 3.5, 5.5, 75 and 80s	(2m11s)	PLdn	TUE
13438kHz2120z	19/06[03496 00001 00000 10140] Strong	(2m11s)	PLdn	TUE
12138kHz2140z	19/06[03496 00001 00000 10140] Strong	(2m11s)	PLdn	TUE
14738kHz2100z	24/06[00612 00041 88347 22012] Strong	(2m43s)	PLdn	SUN
13438kHz2120z	24/06[00612 00041 88347 22012] Strong	(2m43s)	PLdn	SUN
12138kHz2140z	24/06[00612 00041 88347 22012] Strong	(2m43s)	PLdn	SUN



14738kHz2100z	26/06[00612 00041 88347 22012] Strong	(2m43s)	PLdn	TUE
13438kHz2120z	26/06[00612 00041 88347 22012] Strong	(2m43s)	PLdn	TUE
12138kHz2140z	26/06[00612 00041 88347 22012] Strong	(2m43s)	PLdn	TUE

## Digital, Incursions and Unexplained Signals

This column brings news of yet another new data signal which is likely to be of interest to E2K members. This one was spotted by E2K regular Token who takes a special interest in Korean and Chinese stations from his home on the American west coast has been busy watching the station V16 and has recently discovered new schedules. On Monday 11th June he recorded 11493 KHz at 14:00 expecting a V16 voice message but instead several digital messages were sent. The transmissions were right on the V16 frequency and shared the same start time so Token is fairly certain these transmissions were V16 related. Then on 20th June member Spectre caught similar transmissions while using a Global Tuners receiver as you can see in his logs below ..

V16 11323kHz 1400z 20/06 [2 Data Mode TX's] 1404z Fair QRN2 QSB2 Spectre WED  
V16 11323kHz 1410z 20/06 [2 Data Mode TX's] 1414z Fair QRN2 QSB2 Spectre WED  
V16 11323kHz 1420z 20/06 [2 Data Mode TX's] 1424z Fair QRN2 QSB2 Spectre WED

He then caught the transmissions again on 22nd June ..

V16 11147kHz 1400z 22/06 [2 Data TX's] 1405z Fair QRN2 QSB2 Spectre FRI  
V16 1410z 22/06 [2 Data TX's] 1415z Fair QRN2 QSB2 Spectre FRI  
V16 1420z 22/06 [2 Data TX's] 1425z Fair QRN2 QSB2 Spectre FRI



[http://signals.taunus.de/FFT/4FSK\\_200Bd.HTML](http://signals.taunus.de/FFT/4FSK_200Bd.HTML)

A small but growing section of the group has been monitoring the FSK200/500 mode stations. So far we know of six regular transmissions but more are suspected. The frequencies used in May and June were ..

	Thursday 19:00	Thursday 19:10	Thursday 19:20	Saturday 12:00	Saturday 12:10	Saturday 12:20
May	10767 KHz	8118 KHz	5787 KHz	17431 KHz	15827 KHz	13376 KHz
June	11024 KHz	9092 KHz	6785 KHz	17496 KHz	15932 KHz	13481 KHz

00000++++++162)5761

I have spent much of the month taking a look at FSK200/500's sister mode FSK200/1000. As the name suggests this is a 200 baud Frequency Shift Keying mode with a frequency shift of 1000 Hz. However FSK200/500 sends data during its seven minute transmissions using ITA-2 baudot code with a 1.5 stop bits so like a standard RTTY station but at a higher speed. While FSK200/1000 appears to send synchronous data and doesn't use baudot code. There also appear to be far more FSK200/1000 schedules than there are FSK200/500 ones. Clearly this station is crying out for further examination so I started work on a FSK200/1000 module for Rivet. The first stage in understanding a station is to gather some good quality recordings and then have the software decode these into binary (0's and 1's) which can then be examined for patterns. Once I had added the code for that I could run through some WAV file recordings I had made of FSK200/1000 transmissions previously. The resulting output then looked something like this ..

[illegible]

**1000001011101101010011110001100**

64

[illegible]

The question I know you are asking as you read this is “*Have you managed to decode anything readable from these transmissions ?*” Well the answer at the moment is no but that is because I’m pretty sure these transmissions do not directly contain characters (as FSK200/500 does). Most likely they are received by a modem and then fed directly into a cypher machine. I find the choice of 288 bit blocks to be interesting also as these size blocks of data frequently indicate that the data within is convolution coded (this is a form of error correction). This may well form an interesting line of enquiry into this mode and is something I hope to look into in a future desk report.

<https://github.com/IanWraith/Rivet/downloads>

<http://goo.gl/D3Ue5>

Also if you find any bugs in Rivet , have any feature requests or modes you would like it to decode please post to the E2K mailing list.

And here comes the Olympics:- The 2012 London Games are almost upon us, bringing with them everything that is rotten about the modern world. Nothing to do with sportsmanship or fair play of course, and everything to do with advertising, sponsorship and winning at all costs. Carefully constructed laws passed specifically for the Olympics are being rigorously enforced to protect the interests of the advertising sponsors, many of them being American owned multi-national corporations.

For example there is an official Olympic soft drink, an American concoction of concentrated sugar and acid and an official Olympic fast food, rich in fat and salt - also of American origin. No rival products are allowed to have their advertising symbols displayed within a specified distance of the Olympic stadium. Also among the sponsors we find the Dow Chemical Corporation. This will be the same Dow Chemicals famous for the supply of napalm for use in Vietnam. "Got a small south-east Asian country you want to bring under your control? Find it's riddled with those pesky godless Communists? Well, just burn 'em up alive with napalm. They're going to burn in the next world so why not burn them in this? You'll love the smell of napalm in the morning - smells like victory."

And then there is the disruption to transport in London during the Games; - designated road lanes reserved for Olympic officials, no ordinary mortals permitted to drive in them, large fines for transgressors, not going down too well with Londoners trying to get out and about to earn their daily bread, by all accounts.

Most of all there is the military presence which has set up shop in the nation's capital, a warship patrolling the Thames, anti-aircraft missile batteries on the top of apartment blocks, fighter aircraft stationed just up the road ready to do a 1940 style "scramble, bandits at angels one-five" routine and apparently there are going to be more army personnel about than are currently deployed in Afghanistan. The I newspaper of 15-May had an impressive photograph of a warship with attendant tug boats on the Thames and the caption with the headline, "Ahoy the Olympic patrol" said, "HMS Ocean sailed up the Thames yesterday and successfully passed through the Thames barrier without scratching her paintwork in an exercise designed to practise the military response in the event of a terror attack on London during the Olympics. General Sir Nick Parker, in charge of the military's Olympic role said: 'What we need to do is to make sure we practise against those high-end threats but they are not considered likely'. "

65



Meanwhile, Transport for London yesterday identified several more 'hot spot' stations that will be particularly busy during the Olympics..... Public transport workers have also stepped up their call for hefty bonuses if they work during the Olympics. Union leader Bob Crow said: 'You can scramble all the fighter jets you like but if we don't have properly staffed transport services, people will still be jammed solid.'

There has been much discussion on radio phone-in shows and elsewhere as to what lies behind this display of military force at what is supposed to be a joyous sporting festival.

One theory doing the rounds is that immediately after the games the long expected US/UK/Israeli attack on Iran is scheduled to take place and the government wants to be prepared to deal with the huge protest demonstrations which would inevitably take place - not very likely, I think.

More believable, perhaps, is that there is evidence that Al Qaeda are planning a spectacular surprise of some kind. Suggestions range from a hijacked airliner being crashed into the stadium on the lines of the 9-11 outrage, hence the Rapier missiles - would they really shoot down a hijacked airliner and bring it down on one of the most densely populated parts of London? - Wouldn't that be just as bad, or worse, as it being crashed into the stadium? - to the worry that a compact nuclear device has been brought into the country to be exploded some time during the games. The story behind this revolves around rumours that several individuals from some unidentified Middle Eastern country who entered the UK as asylum seekers several years ago, were subsequently identified as having links with Al Qaeda and so were placed under discreet surveillance by MI5 - and they have now suddenly vanished - gone off the plot entirely. All in all, it sounds like a rejected story line from the "Spooks" TV series. Nevertheless, an acquaintance of mine runs a small taxi company and none of his drivers are keen to do any long-distance trips into London, usually a lucrative part of the business, for the duration of the games.

Iraq - the legacy:- no peace for the citizens of Iraq, suicide bombings seem to be an almost daily feature of life although if reported at all in the British domestic media the news will be a few words on an inside page. You have to watch TV news channels originating from outside the UK for in-depth coverage of what is going on in that part of the world. An example appeared in the Metro of 19-June on page 17 under the headline, "Suicide bomber kills 15 at funeral" and says, "At least 15 people were killed when a suicide bomber struck at a funeral yesterday. About 40 mourners were also injured in the blast, which happened inside a tent at the funeral for a Shia tribal leader in Baqouba, Iraq. Officials blamed Sunni militants allied to Al Qaeda for the attack, which follows a week of bombings that killed more than 100 people. The area, 56km north-east of Baghdad, has long been a sectarian flashpoint."

And old scores are still being settled. From the Metro of 8-June a short piece headlined, "Saddam's personal secretary hanged" says, "Saddam Hussein's trusted personal secretary was hanged yesterday. Abed Hamid Hmoud was executed for persecuting the Shia opposition after the 1991 Gulf War and religious parties banned under the dictator, the justice ministry said. Hmoud, in his mid-50s, was Hussein's cousin and fourth on the US most wanted list in Iraq in 2003"

Thanks PoSW

### Now onto other news items

#### Gizza Job

#### Security Guards

This advert kindly sent in by E and held over from last time.

Blue uniform, white shirt and a radio means absolute power over all that attempt to enter the buildings; nutcases, job applicant hopefuls, workers and visitors from other Security Services.

There's no walking in and out as seen in Spooks and no five man/woman teams wasting everything they come across and using zener diodes as Yalta bugs. Nope, this is the first line of defence against those who do not have Britain's best interests at heart.

Must be a Brit, over 18, not smell of wee and biscuits and musn't blab their gob as to where they've applied.

Thanks E, BTW, did you apply ☺



The poster is for the Security Service MI5. It features the MI5 crest and logo at the top right. The text is as follows:

**Security Guards**  
London | £24,711 including shift allowance

As a Security Guard at MI5 you'll maintain the security of our buildings, carry out reception duties and control and monitor staff, visitor, contractor and vehicle access to our premises. You'll be a reassuring presence, conducting searches where necessary, monitoring security systems and responding to alarms and incidents as they arise.

Previous experience is not necessary as training and on-the-job coaching will enable you to gain formal accredited qualifications within the first year of employment, leading to a great future in the security industry. If you're a team player with an eye for detail who can stay calm under pressure and communicate clearly, concisely and assertively, find out more at [www.mi5.gov.uk/careers/securityguard](http://www.mi5.gov.uk/careers/securityguard)

Applicants must be born or naturalised British citizens and 18 years old or over. Discretion is vital. You should not discuss your application with anyone other than your partner or a close family member.

The bottom of the poster shows a photograph of a large, historic building, likely a government or security service building, situated on a riverbank with a bridge in the background.

I've picked up so much Portuguese off my cleaners at work I'm probably bilingual!

Anyone who knows me who gets the job please give us a bell and let me know if the Embassy building [Near to Marble Arch] actually has a mast and antenna or if it's a tower crane in the mews behind?

If the former I'll be up to take some pics.

Obrigado

**BRAZILIAN AIR ATTACHÉ OFFICE  
EMBASSY OF BRAZIL**

Bilingual Portuguese/English  
Administrative Assistant  
£2,000 pcm

Full details at:  
**[www.Brazil.org.uk](http://www.Brazil.org.uk)**

**Application period: 08/05 to 31/05/2012**

## GCHO Corporate Finance Assistants

Wonder what this job entails? Certainly won't be anything like Fuel, Light and Cleaning at a Borough Admin office; I'd bet it goes a lot deeper than that.

Something along the lines of Financial Security --- you know, FISEC.

After all, everyone shifts akkers about the net nowadays from coughing up the readies to an online shop, online banking and even laundering money or, funding terror or.....being paid as a spy!

Love to know where this is in 'Central London.' Probably the same place needing a security guard a few issues back!



INVESTORS  
IN PEOPLE



explore **another** world

### Protect the most important figures

**Corporate Finance Assistants** | Central London  
£25,440 + benefits (+ London weighting)  
Two years fixed term contract

One of the UK's intelligence agencies, we gather information to help protect our nation's people and interests. And, as you maintain financial data, offer advice and coach colleagues on a range of accountancy and audit techniques, your support will be vital to our mission's success. In return, we offer a range of development opportunities and an attractive benefits package.

To find out more and apply, please visit

**www.careersinbritishintelligence.co.uk**

**Closing date: 20th May 2012.**

Applicants must be British citizens. GCHQ values diversity and welcomes applicants from all sections of the community. We want our workforce to reflect the diversity of our work.

## Bertie Graduates at 90



## Old master earns degree at 91

**BRITAIN'S** oldest student has graduated – at the age of 91. Bertie Gladwin received a masters degree in military intelligence, a subject close to him after two decades working for MI6. Mr Gladwin left school aged 14 with

no interest in academia but he said he knew the course was 'perfect' for him. True to student form, the World War II veteran turned up late for his first lecture at Buckingham University – he'd got lost in the maze of corridors.

An interesting atricle.

Mr Gladwin holds an amateur callsign early in the G3 series and was employed as a Radio Mechanic, presumably in the Diplomatic Wireless Service.

I suspect he was also an operator since his liking for using Morse.

Well done that man!

Read official press release below:  
[Thanks E and others].

## **Press Release: Bertie Graduates at 90**

<http://www.buckingham.ac.uk/contact-us/information-for-the-media/press-releases/press-release-bertie-graduates-at-90-former-mi6-electronics-engineer-has-become-the-uks-oldest-new-graduate/>

A former MI6 electronics engineer aged 90 has become the UK's oldest new graduate, after graduating this month with a Masters degree from the University of Buckingham.

Mr Gladwin embarked on his degree in Intelligence History and Bletchley Park Studies at the age of 89 together with his wife, who was then aged 77. "I feel very satisfied to think that I've done an MA at my age," he says. "When you're 90, you sit around and not a lot happens, so it's important to carry on learning and to broaden your horizons."

"I feel very good about it, but really I think I'm just lucky."

Mr Gladwin has been clocking up degrees for years. At the age of 60, he decided to undertake a BA in Psychology. By the time he was 70 he had also completed a BSc in Molecular Biology. "They're fascinating subjects," he says. "I did them just because I was interested in them and wanted to know more about them."

It was his wife, Wendy, who encouraged him to take the Masters. "She said it was a good way to round off my academic career, and would give me a good sense of accomplishment," he says. "Plus I had worked at the Government Communications Centre for 20 years, so I had the relevant experience." Mr Gladwin wrote his dissertation on the use of radio to the underground movements in World War Two France and he was awarded a distinction for it.

Professor Anthony Glees, head of the MA degree, said that every student brought something original and special about themselves into class. "Bertie Gladwin came to us with shedloads of both," he said. "He relishes political debate and certainly knew how to stir up a storm in seminars." This year almost half of Professor Glees's postgraduate students were awarded distinctions.

Mr Gladwin's advice to anyone considering a degree is to go for it at any age. "It's never too late to learn," he says.

For further details, please contact:

Bethany Carter  
Publicity Office  
University of Buckingham  
Tel: +44 (0)1280 820338 / 820213  
Email: [bethany.carter@buckingham.ac.uk](mailto:bethany.carter@buckingham.ac.uk)  
Notes to Editors

More pictures of Mr Gladwin are available on request.

Details of the MA in Intelligence History and Bletchley Park Studies can be found via the following link:  
[www.buckingham.ac.uk/humanities/ma/intelligencehistory-bletchleypark](http://www.buckingham.ac.uk/humanities/ma/intelligencehistory-bletchleypark)

Buckingham is the only university independent of direct government support in the United Kingdom and has used its independence to pioneer a distinctive approach to higher education.

The University came 21st in The Times's 2012 Good University Guide, published in 2011, putting it ahead of Russell Group universities such as Kings College London, Glasgow, Birmingham and Manchester. Buckingham scored highest in the country on three indicators – student satisfaction, graduate prospects and staff-student ratio.

<http://www.buckingham.ac.uk/contact-us/information-for-the-media/press-releases/press-release-bertie-graduates-at-90-former-mi6-electronics-engineer-has-become-the-uks-oldest-new-graduate/>

With the apparent increase in V16 and allied transmissions:

### **Exclusive: China arrests security official on suspicion of spying for U.S.**

HONG KONG | Fri Jun 1, 2012 4:47pm EDT

(Reuters) - A Chinese state security official has been arrested on suspicion of spying for the United States, sources said, a case both countries have kept quiet for several months as they strive to prevent a fresh crisis in relations.

The official, an aide to a vice minister in China's security ministry, was arrested and detained early this year on allegations that he had passed information to the United States for several years on China's overseas espionage activities, said three sources, who all have direct knowledge of the matter.

The aide had been recruited by the U.S. Central Intelligence Agency and provided "political, economic and strategic intelligence", one source said, though it was unclear what level of information he had access to, or whether overseas Chinese spies were compromised by the intelligence he handed over.

The case could represent China's worst known breach of state intelligence in two decades and its revelation follows two other major public embarrassments for Chinese security, both involving U.S. diplomatic missions at a tense time for bilateral ties.

The aide, detained sometime between January and March, worked in the office of a vice-minister in China's Ministry of State Security, the source said. The ministry is in charge of the nation's domestic and overseas intelligence operations.

He had been paid hundreds of thousands of U.S. dollars and spoke English, the source added.  
"The destruction has been massive," another source said.

The sources all spoke on condition of anonymity for fear of punishment if identified.

China's foreign ministry did not respond immediately to a faxed request for comment sent on Friday.

The sources did not reveal the name of the suspected spy or the vice minister he worked for. The vice minister has been suspended and is being questioned, one of the sources said.

The Ministry of State Security rarely makes public the names of its officials and does not have a public web site.



The incident ranks as the most serious Sino-U.S. spying incident to be made public since 1985 when Yu Qiangsheng, an intelligence official, defected to the United States. Yu told the Americans that a retired CIA analyst had been spying for China. The analyst killed himself in 1986 in a U.S. prison cell, days before he was due to be sentenced to a lengthy jail term.

## STRING OF SCANDALS

The vice minister's aide was arrested at around the same time that China's worst political scandal in a generation was unfolding, though the sources said the two cases were unrelated.

The political scandal erupted in February when the police chief of Chongqing municipality, in southwest China, took shelter for 24 hours in a U.S. consulate. Chongqing's ambitious Communist Party boss, Bo Xilai, was later suspended after it emerged the police chief had been investigating Bo's wife for murder.

Bo's wife is now being detained on suspicions that she poisoned a British businessman, Neil Heywood, in a dispute over money. Washington kept an official silence on that incident, but in late April relations came under even more pressure when blind Chinese dissident Chen Guangcheng escaped from house detention and sought refuge in the U.S. embassy in Beijing. Chen spent six days in the embassy, sparking a diplomatic crisis that was only resolved when Beijing allowed him to leave the country last month to take up an academic fellowship in New York.

The exposure of the espionage case could put more pressure on the powerful Zhou Yongkang, who formally oversees the state security apparatus as a member of China's top decision-making body, the Politburo Standing Committee. The Bo and Chen cases have already raised questions over the effectiveness of the security establishment which, under Zhou, has become more costly to maintain than the nation's military.

(Reporting by Reuters China; Editing by Don Durfee and Mark Bendeich)

News Article in The Independent 02/04/2012

### **Police and MI5 get power to watch you on the web.**

<http://www.independent.co.uk/news/uk/home-news/police-and-mi5-get-power-to-watch-you-on-the-web-7606788.html?origin=internalSearch>

Police and intelligence officers are to be handed the power to monitor people's messages online in what has been described as an "attack on the privacy" of vast numbers of Britons.

The Home Secretary, Theresa May, intends to introduce legislation in next month's Queen's Speech which would allow law-enforcement agencies to check on citizens using Facebook, Twitter, online gaming forums and the video-chat service Skype.

Regional police forces, MI5 and GCHQ, the Government's eavesdropping centre, would be given the right to know who speaks to whom "on demand" and in "real time".

Home Office officials said the new law would keep crime-fighting abreast of developments in instant communications – and that a warrant would still be required to view the content of messages.

But civil liberties groups expressed grave concern at the move. Nick Pickles, director of the Big Brother Watch campaign group, described it as "an unprecedented step that will see Britain adopt the same kind of surveillance as in China and Iran. "This is an absolute attack on privacy online and it is far from clear this will actually improve public safety, while adding significant costs to internet businesses," he said. David Davis, the former Conservative shadow Home Secretary, said the state was unnecessarily extending its power to "snoop" on its citizens.

"It is not focusing on terrorists or on criminals," the MP said. "It is absolutely everybody. Historically, governments have been kept out of our private lives. They don't need this law to protect us. This is an unnecessary extension of the ability of the state to snoop on ordinary innocent people in vast numbers."

The former Labour Home Secretary Jacqui Smith abandoned plans to store information about every phone call, email and internet visit – labelled the "Big Brother database" – in 2009 after encountering strong opposition.

Ms May is confident of enacting the new law because it has the backing of the Liberal Democrats, normally strong supporters of civil liberties. Senior Liberal Democrat backbenchers are believed to have been briefed by their ministers on the move and are not expected to rebel in any parliamentary vote. A senior adviser to Nick Clegg said he had been persuaded of the merits of extending the police and security service powers but insisted they would be "carefully looking at the detail". "The law is not keeping pace with the technology and our national security is being eroded on a daily basis," the adviser said.

Confirming the legislation would be introduced "as soon as parliamentary time allows", the Home Office said: "We need to take action to maintain the continued availability of communications data as technology changes. Communications data includes time, duration and dialling numbers of a phone call or an email address. It does not include the content of any phone call or email and it is not the intention of Government to make changes to the existing legal basis for the interception of communications."

According to The Sunday Times, which broke the story, the Internet Service Provider's Association, which represents communications firms, was unhappy with the proposal when it was briefed by the Government last month. A senior industry official told the paper: "The network operators are going to be asked to put probes in the network and they are upset about the idea... it's expensive, it's intrusive to your customers, it's difficult to see it's going to work and it's going to be a nightmare to run legally."

Google and BT declined to comment. A spokesman for Microsoft told The Independent: "We comply with legislation in all the countries in which we operate. This is a proposal and we have not had the opportunity to review it in depth."

Shami Chakrabarti, director of Liberty, said the Conservatives and the Liberal Democrats had resisted greater surveillance powers when in opposition. "This is more ambitious than anything that has been done before," she told Sky News's Dermot Murnaghan. "The Coalition bound itself together in the language of civil liberties. Do they still mean it?"

## SECURITY THEN AND NOW

June 2009: "Today we are in danger of living in a control state. Every month over 1,000 surveillance operations are carried out. The tentacles of the state can even rifle through your bins for juicy information." David Cameron

April 2012: "It is vital that police and security services are able to obtain communications data in certain circumstances to investigate serious crime and terrorism and to protect the public." Home Office spokesman

<http://www.independent.co.uk/news/uk/home-news/police-and-mi5-get-power-to-watch-you-on-the-web-7606788.html?origin=internalSearch>

#### **4G networks to disrupt TV signals for two million homes**

Nearly two million homes will have their television reception interrupted when 4G mobile networks are introduced, the Government has said.

The government is selling some radio spectrum previously used for television broadcasting

<http://www.telegraph.co.uk/technology/mobile-phones/9271771/4G-networks-to-disrupt-TV-signals-for-two-million-homes.html>

The culture minister Ed Vaizey said 945,000 households that use signal amplifiers could be affected, as well as 953,000 households that rely on communal aerials.

The mobile operators are currently preparing to introduce 4G networks, which offer mobile internet access typically 10 times faster than 3G, over the next three years. An Ofcom auction of radio spectrum licences has been delayed by legal wrangling, however.

Once the networks are built, Mr Vaizey said, the operators will have to pay for ways to mitigate the interference they cause.

A new independent body, "MitCo", will receive £180m in funding from operators who buy 4G licenses in the 800MHz range, the frequency most likely to affect Freeview signals. It will be responsible for buying and installing filters in homes to mitigate interference, but will not cover "non-standard" or indoor aerials.

According to Ofcom, once MitCo has fitted filters 8,500 households could still suffer from interference.

Those living near new 4G masts are most likely to suffer interference. The Voice of the Listener and Viewer has called the plans "a major threat to the principle of universal provision in public service broadcasting".

"These proposals to sell spectrum to mobile phone operators in order to raise millions for the Treasury could remove the option of free-to-air television from millions of viewers," said spokeswoman Sophie Chalk.

"This runs completely against the UK's system of public service broadcasting whereby there is universal access for all citizens to programmes made by the main terrestrial channels. It is an outrage.

<http://www.telegraph.co.uk/technology/mobile-phones/9271771/4G-networks-to-disrupt-TV-signals-for-two-million-homes.html>

#### **Anti-Wi-Fi wallpaper will still let you make phone calls**

By Sean Gallagher

14 May 12

Ars Technica

<http://www.wired.co.uk/news/archive/2012-05/14/anti-wifi-wallpaper-will-still-let-mobile-calls-through>

Better Wi-Fi security could soon be just a few rolls of wallpaper away. French researchers at Institut Polytechnique de Grenoble, in cooperation with the Centre Technique du Papier, have developed a wallpaper that can block Wi-Fi signals, preventing them from being broadcast beyond the confines of an office or apartment.

But unlike other signal-blocking technologies based on the Faraday cage (which block all electromagnetic radiation), the wallpaper only blocks a select set of frequencies used by wireless LANs, and allows cellular phones and other radio waves through.

L'Informaticien reports that researchers claim the price of the wallpaper, which is being licensed to a Finnish manufacturer for production, would be "equivalent to a traditional mid-range wallpaper". It should be available for sale in 2013.

Pierre Lemaitre-Auger, the director of studies at Grenoble INP's ESISAR (School of Advanced Systems and Networks) said during a demonstration of the wallpaper that in addition to preventing Wi-Fi snooping, it could also be used in areas where there is concern about interference from Wi-Fi or to block external Wi-Fi sources-such as in hospitals, hotels, or theaters. (It could also be used to prevent guests from trying to get out of paying for Wi-Fi and picking up an outside network for free.)

He also said that the paper could be marketed to people concerned about sensitivity to electromagnetic waves, such as "people who want the opportunity to protect themselves and to have very low levels of radio waves in their apartment."

<http://www.wired.co.uk/news/archive/2012-05/14/anti-wifi-wallpaper-will-still-let-mobile-calls-through>

#### **Dutch diplomat arrested for spying**

June 27, 2012

Authorities in Holland have arrested a Dutch diplomat who is said to have worked for the same Russian intelligence unit that handled a group of Russian sleeper agents captured in the United States in 2010.

The 60-year-old diplomat, who has been publicly identified only as Raymond P., was arrested over the weekend in The Hague following an extensive investigation by German counterintelligence.

According to German newsmagazine *Focus*, which first aired the story on Saturday, the diplomat is believed to have given nearly 500 classified documents to Andreas and Heidrun Anschlag, two Russian intelligence officers operating in Germany.

The Anschlags, who are married to each other, and are believed to be Mexican-born, were arrested in October of 2011 in the university town of Marburg in central Germany. They are thought to have moved to Germany from Mexico in 1990, using false Austrian passports supplied to them by the SVR, the Russian Foreign Intelligence Service.

At the time of the Anschlags' arrest, Russian media claimed that the couple had "effectively retired" from the SVR several years ago and were being utilized mostly as message couriers.

It now appears that Raymond P. was one of their informants, and that the three operated as part of the same espionage ring in Germany.

Interestingly, the Anschlags were also said to be in frequent contact with Russian intelligence officer Anna Chapman (pictured), who was arrested by the FBI in the US in 2010.

Chapman was part of a group of 11 Russian sleeper agents who were arrested on the same day by the FBI, and were later expelled to Russia.

This connection has led some commentators to wonder whether Colonel Alexander Poteyev, the Russian intelligence officer who betrayed the Russian illegals in the United States, is also responsible for the capture of the Anschlags and, consequently, last weekend's capture of Raymond P. in Holland. Last July, Poteyev was given a 25-year prison sentence by a Russian court for exposing the 11 Russian operatives.

The sentence was delivered in absentia, as Poteyev is believed to have defected to the US, where he probably lives today under an assumed identity. German media reports that Raymond P. is so far refusing all cooperation with German and Dutch interrogators, and has declined several opportunities to make a statement to the investigators handling his case.

The Anshlags received their messages from Moscow using a system known as 'Radiogramma.' Consisting of twenty tones the messages were sent at 0440/0500/0520UTC Tuesday and Thursday.

At the time of their arrest Tuesday 18 Oct 2011 Heidrun was in the process of receiving a 777 group message that took 10m28s to send.

The next scheduled message Thursday 20th October 2011 was a null message, but the next two, sent on 25th and 27th Oct 2011, were full messages: 583 and 367 groups log respectively.

After that the schedules sent nothing but Null messages until the 7th June 2012 when the schedules closed.

One has to ask who the recipient was for the two messages; is it the diplomat who has recently been arrested?

However, another station an early morning voice station that started 759 759 759 and sent a message usually between 30 and 40 groups long on Saturday mornings at 0030 and 0130UTC, repeating Sunday mornings suddenly closed on 16th June; despite regular searches it has not yet been found.

So who has been arrested this time; or again, was it this diplomat?

### **Smart meters in our homes 'will leave us open to cyber attack'**

By Gerri Peev

PUBLISHED: 22:38, 8 June 2012 | UPDATED: 22:40, 8 June 2012 [Thanks E]

<http://www.dailymail.co.uk/news/article-2156648/Government-plans-install-smart-meters-homes-leave-open-cyber-attack.html>

Intelligence chiefs have warned that plans to install smart energy meters in every house will leave families vulnerable to terrorist attacks.

According to the Government's listening agency GCHQ, the plans will create a 'strategic vulnerability', giving foreign computer hackers the opportunity to target individual homes, municipal buildings and even whole districts.

Described by security experts as the 'modern day equivalent of a nuclear strike', hackers would be able to switch off meters from overseas, cutting off targets from the national grid.

Intrusion? Smart meters could be installed in every property - and could lead to a cyber attack

Privacy campaigners are already seeking to block the plans on the grounds that the meters will create a 'spy in every home'.

The meters will collect details about how people use electricity and gas, allowing snoopers to, for example, scrutinise what time someone goes to bed, washes or uses their computer.

The information will be beamed to a central database held by a utility firm, making it a tempting target for hackers. A further concern is that the meters could allow individual households to be cut off by Whitehall or energy companies at times of future fuel shortages.

The Foundation for Information Policy Research think-tank, has warned the Government that it should remove the ability to switch off power remotely 'to prevent attacks that cut off customers, whether these are committed for blackmail, or as a hostile act against Britain's critical national infrastructure by a foreign power or a terrorist group'.

Thought it out? The plans for the 'smart meters' were first set out by Ed Miliband when he was Energy Secretary

Thought it out? The plans for the 'smart meters' were first set out by Ed Miliband when he was Energy Secretary

Ross Anderson, a Cambridge computer science professor and chairman of the think-tank, said: 'GCHQ have also told us they are worried about it.

'Once you have the ability to turn off meters remotely, then it becomes a strategic vulnerability.

'If the Iranians or Chinese want to attack Britain, they could do so easily through smart meters. This is the modern day equivalent of a nuclear strike.'

It is understood similar warnings have been passed to ministers by security chiefs. Smart meters have already been installed in around 400,000 homes by British Gas. All utility firms will be installing meters between 2014 and 2019.

Information from the 46million gas and electricity meters will be collected every 30 minutes and beamed from a box in the home to the central databases.

The plans, introduced by Ed Miliband when he was Energy Secretary and championed by Lib Dem Chris Huhne when he held the job, have been justified on the grounds that the meters will help customers cut their bills and governments meet environmental targets.

But Professor Anderson also warned that governments could use the information to turn off power if the UK suffers from energy shortages in the future.

Critics are also warning that corrupt officials, call centre staff or hackers could sell information to burglars or identity thieves.

They are also concerned that energy companies will be able to use the data to manipulate tariffs.

A Whitehall source said: 'This is a bonkers policy that has to be stopped before it gets out of hand. It is being sold as a consumer-friendly device to help you save power but in the wrong hands, it will be a total disaster.

'We will see power blackouts timed with the help of the information collected from smart meters.'  
This could mean risks of identity theft, real time surveillance and unwanted publicity

Nick Pickles, of civil liberties group Big Brother Watch, has written to ministers to warn them of the risks associated with smart meters. He said:

'We are witnessing a massive intrusion into what goes on in millions of homes.

'This comes when there is increasing surveillance of our society. Smart meters are a step towards our homes becoming the next line of attack for state snoopers.'

Anna Fielder, of watchdog Privacy International, said: 'This could mean risks of identity theft, real time surveillance, unwanted publicity, profiling or targeting for commercial purposes and also potential discriminatory practices by power companies targeting tariffs to maximise profits.

‘As these are essentially communication devices, transmitting data over a network, there are the associated security risks if the right measures are not taken.’

A spokesman for the Department for Energy said: ‘The rollout of meters will help put people in control of their energy use and eliminate the cause of a huge number of complaints – inaccurate bills.’

He added: ‘We also want to make absolutely sure that we’ve got key aspects such as privacy, security, and consumer protection right and that’s what we are currently consulting on and working through with industry and consumer groups.’

<http://www.dailymail.co.uk/news/article-2156648/Government-plans-install-smart-meters-homes-leave-open-cyber-attack.html> [Thanks E]

#### **Iran the target for the world's most complex computer spy virus** [From E]

The world's most complex computer virus, possessing a range of espionage capabilities, including the ability to secretly record conversations, has been exposed and the target is the Middle East after USA attack on China.

“Flame”, the world's most complex computer virus, possessing a range of espionage capabilities, including the ability to secretly record conversations, has been exposed and the target is now the Middle East after USA attack on China. For that reason, Iran ordered an official review on this software.

Experts said the malicious software was 20 times more powerful than other known cyber warfare programs, including the “Stuxnet” virus, and could only have been created by a state.

A third cyber attack in recent years on Iran and Middle East countries, to know about their recent nuclear programming, and also, have an organized effort to do a sabotage using cyber warfare or a conspiracy to kill the nuclear scientists also.

In yesteryears, “Stuxnet” attacked Iran's nuclear program in 2010, while a related program, “Duqu”, named after the Star Wars villain, stole data.

“Flame” can gather data files, remotely change settings on computers, turn on computer microphones to record conversations, take screen shots and copy instant messaging chats.

Discovered by a Russian security company that specializes in malicious computer code, it made the 20 gigabyte virus available to other researchers, claiming that it did not fully understand its scope and said its code was 100 times the size of the most malicious software.

Kaspersky Labs said the program appeared to have been released five years ago and had infected machines in Iran, Israel, Sudan, Syria, Lebanon, Saudi Arabia and Egypt. “If Flame went on undiscovered for five years, the only logical conclusion is that there are other operations ongoing that we don't know about,” Roel Schouwenberg, a Kaspersky security senior researcher, said.

Prof Alan Woodward, from the Department of Computing at the University of Surrey, commented that this invasive virus could “vacuum up” information by copying keyboard strokes and the voices of people nearby. “This wasn't written by some spotty teenager in his/her bedroom. It is large, complicated and dedicated to stealing data whilst remaining hidden for a long time,” he said.

The virus contains about 20 times as much code as “Stuxnet”, which attacked an Iranian uranium enrichment facility, causing centrifuges to fail.

Mr Schouwenberg said there was evidence to suggest that the villain is the same nation who made “Stuxnet” and “Duqu” was the same because of its code. Iran's computer emergency response team said it was “a close relation” of “Stuxnet”, which has itself been linked to “Duqu”, another complicated information-stealing virus which is believed to be the work of state intelligence. It said organizations had been given software to detect and remove the discovered virus at the beginning of this month.

Crysys Lab, analyses computer viruses at Budapest University, said the technical evidence for a link between “Flame” and “Stuxnet” or “Duqu” was inconclusive and it does not spread itself automatically, but only when hidden controllers allow it. The file, which infects Microsoft Windows computers, has five encryption algorithms, exotic data storage formats and the ability to steal documents, spy on computer users and more. Components enable those behind it, who use a network of rapidly-shifting “command and control” servers to direct the virus, to turn microphones into listening devices, siphon off documents and log keystrokes.

Eugene Kaspersky, the founder of Kaspersky Lab, noted that “it took us six months to analyse “Stuxnet”. This is 20 times more complicated”.

Once a machine is infected, additional modules can be added to the system, allowing the machine to undertake specific tracking project

Thanks E



# Chart Section Index

**For May and June, 2012:**

1. Logging Abbreviations Explained
2. European Number Systems
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4. M01, M01b and M45 Schedules
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7. Family 1b [E07]
8. Family III
9. G06
10. S06s Regular Schedule
11. Cuban Schedules,
12. XPA Polytone Schedules

### Logging Abbreviations explained.

The ENIGMA 2000 Standard logging should take this form without any personalised abbreviations:

E07 10436kHz 1740z 07/06[414 1 563 102 92632 ... 09526 0 0 0 0 0 0] 1753z Fair QRM2 QSB2 PLdn SUN

Station: E07 [Traits of stations in ENIGMA Control List]

Freq: kHz [As above 10436kHz]

Time: z [Always 24hour clock, 'z' states GMT/UTC]

Date: day/month [As above 7<sup>th</sup> June]

Msg detail: Varies with station

ID taken from 100kHz fig in freqs: 414 [freqs used in this schedule were 13468, 12141 and 10436kHz]

Msg count 1

Dk [decode key]: 563

Gc [group count]: 102

First group of msg: 92632

Text between grps: ...

Last group: 09526 [where more than one group is stated the use of LG ahead group indicates 'Last Group.']

Ending: 0 0 0 0 0 0

Time msg ends: 1753z

Received signal strength assessment: Fair

Noise QRM2

Fading to signal QSB2

Monitor: PLdn

Day heard: SUN

Unknown: unk

Repeat: R [which can be expanded to mean]:

Repeated : R5m [repeated 5 mins]; R5s[repeated 5seconds], R5x [Repeated 5 times]

### Received signal strength assessment.

Some receivers possess 'S' meters that give a derived indication of signal strength caused by changes within that receiver. Calibration may, or may not be accurate and the scale, may or may not, be the same as that on other receivers. Some receivers have no meter yet produce acceptable results.

Therefore we prefer the quality of the signal to be assessed by the particular monitor.

Guidance for this can be sought from the Q code:

**QSA** What is the strength of my signals (or those of...)?

The strength of your signals (or those of...) is...

1) scarcely perceptible.

2) weak.

3) fairly good.

4) good.

5) very good.

[QSA1 S0 to S1; QSA2 S1 to S3; QSA3 S3 to S6; QSA4 S6 to S9; QSA4 S9 and above]

Sooner than put a numerical value we state: Very Weak, Weak, Fair, Strong or Very Strong.

### Noise, Static and Fading.

Again guidance from the Q code:

**Noise:**

**QRM** Are you being interfered with?

I am being interfered with

1) nil

2) slightly

3) moderately

4) severely

5) extremely.

Note: in the sample the monitor has stated QRM2 which means 'slight noise'; had the interference been from a broadcast station you might have read 'BC QRM2' and so on.

**Static** [Lightning and other atmospheric disturbance]:

**QRN** Are you troubled by static?  
I am troubled by static  
1) nil  
2) slightly  
3) moderately  
4) severely  
5) extremely.

**Fading** [Propagational disturbance]

**QSB** Are my signals fading?  
Your signals are fading  
1) nil  
2) slightly  
3) moderately  
4) severely  
5) extremely.

Note: in the sample the monitor has stated QSB2 which means 'slight fading' where the received signal obviously fades but the message is still intelligible.

The use of QRM1, QRN1 and QSB1 is not expected; if there is no such aberration to the signal it need not be stated.

### **Day Abbreviation**

Self explanatory: SUN, MON, TUE, WED, THU, FRI, SAT

### **Mode used in transmission**

Generally the mode of transmission is not stated, being available in the ENIGMA Control List. Should the expected mode change then this can be stated as: CW [Carrier Wave] MCW[Modulated Carrier Wave] ICW [Interrupted Carrier Wave] generally associated with Morse transmission; AM [Amplitude Modulation], LSB [Lower Sideband], USB[Upper Sideband] generally associated with Voice transmission.

### **Languages used**

The ident of a station generally states the language in use, E [English], G[German] S [Slavic], V[All other languages].

### **Non voice stations**

M [Morse and TTY] SK [Digital modes] X [Other modes]

Ideally we would like to see logs offered in our standard format allowing the editorial staff to process the results quickly rather than having to manually re-format. Anyone submitting logs should refrain from using their own abbreviations or shortening our abbreviations eg. Su Mo Tu etc.

See a correct example below which is now self explanatory:

V02a 5883kHz 0700z 06/06[A63752 57781 31521] Fair QRN2 end uk PLdn SAT

And the incorrect version:

V2a 5883k 07:00 06/06/2009 A/63752- 57781- 31521 S3 PLdn SA

### **Additional Info:**

Own station idents should not be used.

When an unidentifiable station is submitted please supply the obvious details:

Freq. Time start and end, Date, Message content, particularly preamble and message content and ending. Language details are helpful, particularly any strange pronunciations.

Other details about stations can be found in the ENIGMA Control List available from Group files or sent when you joined.

## European Number Systems

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

<sup>^</sup> Some German numerals have a radio accent. The numbers in question are:

2 ZWEI pronounced by some TXs, as TSWO .

5 FUNF some pronounce it as FUNUF poss hrd as a fast TUNIS

9 NEUN pronounced by some as NEUGEN.

This is totally in keeping with some German armed forces stations and corresponds to our WUN, FOWER, FIFE, NINER

## Arabic Numerals [E25 and V08]

English	zero	one	two	three	four	five	six	seven	eight	nine
	0	1	2	3	4	5	6	7	8	9
Arabic	sifr	wahid	itnien	talata	arba	khamisa	sitta	saba	tamanya	tissa
	٠	١	٢	٣	٤	٥	٦	٧	٨	٩

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

	<b>S11a Cherta</b>	<i>S11 Kreska</i>	<b>Actual Polish[S11]</b>	<i>S10d</i>	<i>S17c</i>
<b>0</b>	nul	zero	zero	Nula*	Nula*
<b>1</b>	adinka	yezinka	jedynka	Jeden <sup>^</sup>	Jeden <sup>^</sup>
<b>2</b>	dvoyka	dvonta	dwójka	dva	dva
<b>3</b>	troyka	troika	trójka	tri ‘	tri ‘
<b>4</b>	chetyorka	chidiri	cztery	shytri	shytri
<b>5</b>	petyorka	peyonta	piątka	pyet	pyet
<b>6</b>	shest	shes	sześć	shest	shest
<b>7</b>	syem	sedm	siedem	sedoom	sedoom
<b>8</b>	vosyem	osem	osiem	Osoom~	Osoom~
<b>9</b>	dyevyet	prunka	dziewięć	devyet	devyet

Notes: \* Nula heard as nul

<sup>^</sup> Jeden heard as yedinar

‘ Tri heard as ‘she’

~ Osoom often heard as bosoom or vosoom.

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Jul kHz, ID, ...	Aug kHz, ID, ...
					x	x	0030/0130		E06	01A	9061/ 7844 759	7981/ 6953 759
	x		x				0340/0400/0420		M12	01B	8173/ 9173/10173 111	7584/ 8184/ 9184 511
			x				0430/0450/0510		E07A	01B	7437/ 8137/ 9137 411	7437/ 8137/ 9137 411
	x		x				0440/0500/0520		XPA	01B	9287/10487/11487	8034/ 9234/10834
x							0450		E11	03	10800 416/00	10800 416/00
			x	x			0500/0600		E06	01A	14580/16090 679	13930/15890 210
		x					0530/0540		S06S	01A	11435,12650 153	11435,12650 153
	x						0600/0610		S06S	01A	16735/15230 438	16735/15230 438
				x			0600/0610		S06S	01A	8340/ 5810 934	8340/ 5810 934
				x			0600/0610		S06S	01A	7845/ 9125 196	7845/ 9125 196
	x		x				0645		E11	03	13424 517/00	13424 517/00
						x	0700		M01	14	6780 025	6780 025
	x						0700/0710 (15)		S06S	01A	5430/ 6780 374	5430/ 6780 374
	x			x			0710		E11	03	14753 633/00	14753 633/00
		x					0730/0740		S06S	01A	7335/11830 745	7335/11830 745
	x		x				0745		E11	03	335/00, search	335/00, search
			x				0800		E17Z	01A	16780/12850/ 674	16780/12850/ 674
x							0800		G06	01A	6948 215	6948 215
	x						0800/0810		S06S	01A	14373/12935 352	14373/12935 352
x			x				0820		E11	03	6280 438/00	6280 438/00
		x					0820/0830		S06S	01A	6755/ 5835 471	6755/ 5835 471
x			x				0830		E11	03	12924 649/00	12924 649/00
			x				0840/0850		S06S	01A	10120/ 9670 328	10120/ 9670 328
x		x					0900		E11	03	13427 534/00	13427 534/00
			x		x		0900		E11	03	4909 248/00	4909 248/00
			x				0900/0910		S06S	01A	12952/13565 167	12952/13565 167
	x			x			0915		S11A	03	8530 484/00	8530 484/00
				x			0930/0940		S06S	01A	10290/ 9655 516	10290/ 9655 516
x			x				0940		G11	03	6986 275/00	6986 275/00
	x						1000/1010		S06S	01A	893, search	893, search
		x					1000/1010		S06S	01A	14580/16020 729	14580/16020 729
x			x				1015		S11A	03	16530 475/00	16530 475/00

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Jul kHz, ID, ...	Aug kHz, ID, ...
	x			x			1020		S11A	03	11581 426/00	11581 426/00
		x			x		1020		S11A	03	5815•221/00	5815•221/00
	<b>x</b>						1045		E11	03	576/00, search	576/00, search
	x	x					1045		E11	03	9610 469/00	9610 469/00
				x			1110		E11	03	95#/00, search	95#/00, search
	x	x	x				1115		M03	03	7837 272/00 (Tue) & 650/00 (Wed/Thu)	7837 272/00 (Tue) & 650/00 (Wed/Thu)
						x	1120/1220	2	E06	01A	154, search	154, search
		x	x			x	1155		E11	03	16335 718/00	16335 718/00
		x					1200		G06	01A	154, search	154, search
			x				1200		G06	01A	215, search	215, search
x							1200/1210		S06S	01A	10230/12165 831	10230/12165 831
		x					1200/1210		S06S	01A	7765/ 6815 481	7765/ 6815 481
			x				1200/1210		S06S	01A	12155/14535 425	12155/14535 425
					x		1200/1210	1	S06S	01A	12460/10250 254	12460/10250 254
	x						1230/1240		S06S	01A	7650/ 6125 278	7650/ 6125 278
		x					1230/1240		S06S	01A	7545/ 8220 967	7545/ 8220 967
			x				1230/1240		S06S	01A	9255/ 7630 314	9255/ 7630 314
		x					1300		G06	01A	154, search	154, search
			x				1300		G06	01A	215, search	215, search
			x		x		1310/1330/1350		M12	01B	13926/12126/ 919, search	14468/13568/12178 451
			x			x	1320		M03	03	7837 437/00	7837 437/00
				x	x		1325		G11	03	5815 299/00	5815 299/00
	x				x		1400		E11	03	98#/00, search	98#/00, search
			x				1400/1410		S06S	01A	5320/ 4845 624	5320/ 4845 624
						x	1420		M03	03	13911 879/00	13911 879/00
		x			x		1445		E11	03	4909 287/00	4909 287/00
					x		1500		M01	14	6434 025	6434 025
		x					1500/1520/1540		M12	01B	14492/13392/11092 944	13918/12218/10818 991
	x						1500/1510		S06S	01A	6666/ 7744 537	6666/ 7744 537
				x			1515		M01B	14	5810 158	5810 158
			x				1505		M01B	14	5938 159	5938 159

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Jul kHz, ID, ...	Aug kHz, ID, ...
	x			x	x		1535		M03	03	6524 798/00	6524 798/00
x						x	1540		E11	03	16335 228/00	16335 228/00
					x		1600 (1605)		S06	01A	8157/ 6983 134	8157/ 6983 134
x							1600/1610		S06S	01A	9256/ 7889 176	9256/ 7889 176
		x					1600/1620/1640		M12	01B	12162/11561/10711 546	12162/11561/10711 546
				x			1600/1620/1640		M12	01B	10343/ 9264/ 8116 124	10343/ 9264/ 8116 124
x							1700	1/2	G06	01A	154, search	154, search
x			x				1700/1720/1740		M12	01B	9176/ 7931/ 6904 257	9176/ 7931/ 6904 257
		x					1700/1720/1740		M12	01B	8047/ 6802/ 5788 463	8047/ 6802/ 5788 463
		x				x	1700/1720/1740		E07	01B	13468/11454/10126 441	13388/12088/10504 305
			x				1700/1720/1740		M12	01B	10343/ 9264/ 8116 124	10343/ 9264/ 8116 124
	x		x				1702		M45	14	5074, 5474 074	5074, 5474 074
			x				1730		E11	03	8088 416/00	8088 416/00
	x		x				1730/1750/1810		XPA	01B	10943/10243/ 9243	12107/10787/ 9387
	x		x				1742		S21	14	4973, 5373 973	4973, 5373 973
	x					x	1755		G11	03	5815 270/00	5815 270/00
x							1800	1/2	G06	01A	154, search	154, search
	x		x				1800		M01	14	5280 025	5280 025
	x						1800		S06	01A		
x							1800/1820/1840		M12	01B	9176/ 7931/ 6904 257	9176/ 7931/ 6904 257
			x	x			1800/1820/1840		M12	01B	10343/ 9264/ 8116 124	10343/ 9264/ 8116 124
x							1810		M01B	14	5125, 5735 364	5125, 5735 364
x							1815/1915	2/4	S06	01A	search	search
	x						1820		M14	01A	6856 163	6856 163
			x				1830	2/4	G06	01A	6887 842	6887 842
	x						1830/1850/1910		M12	01B	10343/ 9264/ 8116 124	10343/ 9264/ 8116 124
		x					1830/1850/1910		M12	01B	11435/10598/ 9327 938	11435/10598/ 9327 938
			x				1832		M01B	14	5095, 5760 815	5095, 5760 815
x			x				1900 (1905)		S06	01A	7982/ 6984 349	7982/ 6984 349
		x					1900/1910		S06S	01A	10170/ 9110 371	10170/ 9110 371
x		x					1900/1920/1940		E07	01B	14812/13412/11512 845	14378/13458/10958 349
x			x				1900/1920/1940		M12	01B	9176/ 7931/ 6904 257	9176/ 7931/ 6904 257

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Jul kHz, ID, ...	Aug kHz, ID, ...
				x	x		1900/2000	1/3	M14	01A	9060/ 8180 724, search	9060/ 8180 724, search
					x		1900/2000	1/3	S06	01A	7847/ 6916 416	7847/ 6916 416
					x		1900/2000	1/3	S06	01A	10178/ 9432 314	10178/ 9432 314
				x			1902		M01B	14	5075, 5465 336	5075, 5465 815
x							1915		M01B	14	5150, 5475 858	5150, 5475 858
		x					1920/2020	2	E06	01A	154, search	154, search
		x					1920	2/4	M14	01A	5932 417	5932 417
				x			1930	2/4	G06	01A	5943 218	5943 218
					x		1930 (1935)		S06	01A	7884/ 843, search	7884/ 843, search
			x				1942		M01B	14	5065, 5805 936	5065, 5805 936
	x						2000		E11	03	757/00, search	757/00, search
				x		x	2000		G11	03	3815 262/00	3815 262/00



# M01 M01b M45 Frequency Schedule

Compare with current logs

## M01 Sunday

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

## M01b Monday

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

## M01 Tuesday/Thursday

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

## M01b Thursday

[illegible]

### M01b Friday

	Jan	Feb	Mar	Apr	May	Jun	Jly	Aug	Sept	Oct	Nov	Dec
<b>ID</b>	<b>158</b>	<b>158</b>	<b>158</b>	<b>158</b>	<b>158</b>	<b>158</b>	<b>158</b>	<b>158</b>	<b>158</b>	<b>158</b>	<b>158</b>	<b>158</b>
<b>1515</b>	xxxx	xxxx	xxxx	5810	5810	5810	5810	5810	5810	5810	xxxx	xxxx
<b>1615</b>	5810	5810	5810								5810	5810
<b>ID</b>										<b>365</b>	<b>444</b>	
<b>1708</b>										6365		
<b>1808</b>											6444	
<b>ID</b>				<b>153</b>	<b>336</b>	<b>336</b>	<b>336</b>	<b>815</b>	<b>153</b>	<b>153</b>		
<b>1902</b>				3625	5075	5075	5075	5075	3625	3625		
<b>//</b>				4440	5465	5465	5465	5465	4440	4440		
<b>ID</b>	<b>866</b>	<b>866</b>	<b>153</b>								<b>866</b>	<b>866</b>
<b>2002</b>	2653	2653	3625								2653	2653
<b>//</b>	3197	3197	4440								3197	3197
<b>ID</b>				<b>582</b>	<b>467</b>	<b>467</b>	<b>467</b>	<b>467</b>	<b>582</b>	<b>582</b>		
<b>2010</b>				3520	4895	4895	4895	4895	3520	3520		
<b>//</b>				4585	5340	5340	5340	5340	4585	4585		
<b>ID</b>				<b>271</b>	<b>871</b>	<b>871</b>	<b>871</b>	<b>871</b>	<b>271</b>	<b>271</b>		
<b>2102</b>				4766	5329	5329	5329	5329	4766	4766		
<b>//</b>				5443	5752	5752	5752	5752	5443	5433		
<b>ID</b>	<b>610</b>	<b>610</b>	<b>582</b>								<b>610</b>	<b>610</b>
<b>2110</b>	2405	2405	3520								2405	2405
<b>//</b>	3180	3180	4585								3180	3180
<b>ID</b>	<b>419</b>	<b>419</b>	<b>271</b>								<b>419</b>	<b>419</b>
<b>2202</b>	4508	4508	4766								4508	4508
<b>//</b>	4706	4706	5443								4706	4706

### M01 Saturday

	Jan	Feb	Mar	Apr	May	Jun	Jly	Aug	Sept	Oct	Nov	Dec
<b>ID</b>	<b>197</b>	<b>197</b>	<b>463</b>	<b>463</b>	<b>025</b>	<b>025</b>	<b>025</b>	<b>025</b>	<b>463</b>	<b>463</b>	<b>197</b>	<b>197</b>
<b>1500</b>	5810	5810	6261	6261	6434	6434	6434	6434	6261	6261	5810	5810

### M45 Tuesday/Thursday

	Jan	Feb	Mar	Apr	May	Jun	Jly	Aug	Sept	Oct	Nov	Dec
<b>ID</b>	<b>525</b>	<b>525</b>	<b>555</b>	<b>555</b>	<b>074</b>	<b>074</b>	<b>074</b>	<b>074</b>	<b>555</b>	<b>555</b>	<b>525</b>	<b>525</b>
<b>1702</b>					5074	5074	5074	5074				
<b>//</b>					5474	5474	5474	5474				
<b>1802</b>	3525	3525	4555	4555					4555	4555	3525	3525
<b>//</b>	4025	4025	4955	4955					4955	4955	4025	4025

With a receiver set to CW mode you will hear two tones. The table above shows the lower tone. Add 2kHz for other tone. These tones are modulated allowing you to hear this in AM mode.

M01b is undergoing some changes and not all those listed are active. Frequencies not heard are in *italics* and shaded whilst the frequencies of those not heard for rest of year are also *italicised*

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Tue 1	0340	8173	0400	9173	0420	---	111	0 0 0	
	1830	10343	1850	9264	1910	8116	124	6357	56
Wed 2	1500	14492	1520	13392	1540	12126	344	798	85
	1700	8047	1720	6802	1740	5788	463	5551	68
	1830	12217	1850	10617	1910	---	263	0 0 0	
	1830	11435	1850	10598	1910	9327	938	7869	67
	2100	9241	2120	7541	2140	---	258	0 0 0	
Thu 3	0340	8173	0400	9173	0420	---	111	0 0 0	
	0630	7984	0650	9184	0710	---	911	0 0 0	
	1700	9176	1720	7931	1740	6904	257	4305	92
	1700	10343	1720	9264	1740	8116	124	3923	76
	1800	10343	1820	9264	1840	8116	124	2965	60
	1900	9176	1920	7931	1940	6904	257	2583	44
Fri 4									
	1800	10343	1820	9264	1840	8116	124	608	73
Sat 5	2110	14869	2130	13569^	2150	---	851	0 0 0	
Sun 6	1830	12217	1850	10617	1910	---	263	0 0 0	
Mon 7	0430	6857	0450	7557	0510	---	850	0 0 0	
	1300	14372	1320	13472	1340	11472	344	687	107
	1600	12162	1620	11566	1640	10711	546	2216	99
	1700	9176	1720	7931	1740	6904	257	3083	72
	1800	9176	1820	7931	1840	6904	257	8914	66
	1900	9176	1920	7931	1940	6904	257	1674	55

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Tue 8	0340	8173	0400	9173	0420	10173	111	629	141
	1830	10343	1850	9264	1910	8116	124	5201	64
Wed 9	1500	14492	1520	13392	1540	12126	344	687	107
	1700	8047	1720	6802	1740	5788	463	7321	71
	1830	12217	1850	10617	1910	9317	263	852	137
	1830	11435	1850	10598	1910	9327	938	2130	70
	2100	9241	2120	7541	2140	---	258	0 0 0	
Thu 10	0340	8173	0400	9173	0420	10173	111	629	141
	0630	7984	0650	9184	0710	---	911	0 0 0	
	1700	9176	1720	7931	1740	6904	257	5328	47
	1700	10343	1720	9264	1740	8116	124	4766	80
	1800	10343	1820	9264	1840	8116	124	8242	78
	1900	9176	1920	7931	1940	6904	257	9502	49
Fri 11									
	1800	10343	1820	9264	1840	8116	124	4529	85
Sat 12	Not	Moni	-tored						
Sun 13	1830	12217	1850	10617	1910	9317	263	852	137
Mon 14	0430	6857	0450	7557	0510	---	850	0 0 0	
	1300	14372	1320	13472	1340	11472	344	487	153
	1600	12162	1620	11566	1640	10711	546	1519	74
	1700	9176	1720	7931	1740	6904	257	9581	79
	1800	9176	1820	7931	1840	6904	257	5324	61
	1900	9176	1920	7931	1940	6904	257	7304	87

Highlighted cell indicates new or changed loggings

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

^ Weak reception      NH Not Heard      NF Not Found

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Tue 15	0340	8173	0400	9173	0420	---	111	0 0 0	
	1830	10343	1850	9264	1910	8116	124	2606	62
Wed 16	1500	14492	1520	13392^	1540	12126	344	487	153
	1700	8047	1720	6802	1740	5788	463	5025	93
	1830	12217	1850	10617	1910	9317	263	389	175
	1830	11435	1850	10598	1910	9327	938	5503	52
	2100	9241	2120	7541	2140	---	258	0 0 0	
	2110	14869	2130	13569	2150	12179	851	965	121
Thu 17	0340	8173	0400	9173	0420	---	111	0 0 0	
	0630	7984	0650	9184	0710	---	911	0 0 0	
	1700	9176	1720	7931	1740	6904	257	9330	38
	1700	10343	1720	9264	1740	8116	124	3596	70
	1800	10343	1820	9264	1840	8116	124	1922	81
	1900	9176	1920	7931	1940	6904	257	5850	68
Fri 18	1800	10343	1820	9264	1840	8116	124	4655	81
Sat 19	1310	13926	1330	12126	1350	10926	919	571	93
Sun 20	1830	12217	1850	10617	1910	9317	263	389	175
Mon 21	0430	6857	0450	7557	0510	---	850	0 0 0	
	1300	14372	1328*	13472	1356*	11472	344	854	325
	1600	12162	1620	11566	1640	10711	546	4484	75
	1700	9176	1720	7931	1740	6904	257	7971	76
	1800	9176	1820	7931	1840	6904	257	1737	50
	1900	9176	1920	7931	1940	6904	257	1729	80

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Tue 22	0340	8173	0400	9173	0420	10173	111	342	239
	1830	10343	1850	9264	1910	8116	124	4076	52
Wed 23	1500	14492	1528*	13392	1556*	12126	344	854	325
	1700	8047	1720	6802	1740	5788	463	6096	73
	1830	12217	1850	10617	1910	---	263	0 0 0	
	1830	11435	1850	10598	1910	9327	938	1402	54
	2100	9241	2120	7541	2140	---	258	0 0 0	
	2110	14869	2130	13569	2150	---	851	0 0 0	
Thu 24	0340	8173	0400	9173	0420	10173	111	342	239
	0630	7984	0650	9184	0710	---	911	0 0 0	
	1700	9176	1720	7931	1740	6904	257	5281	69
	1700	10343	1720	9264	1740	8116	124	3812	71
	1800	10343	1820	9264	1840	8116	124	9108	93
	1900	9176	1920	7931	1940	6904	257	5467	72
Fri 25	1800	10343	1820	9264	1840	8116	124	9863	85
Sat 26	2110	14869	2130	13569	2150	---	851	0 0 0	
Sun 27	1830	12217	1850	10617	1910	---	263	0 0 0	
Mon 28	0430	6857	0450	7557	0510	---	850	0 0 0	
	1300	14372	1326*	13472	1352*	11472	344	454	297
	1600	12162	1620	11566	1640	10711	546	662	55
	1700	9176	1720	7931	1740	6904	257	4206	73
	1800	9176	1820	7931	1840	6904	257	3711	64
	1900	9176	1920	7931	1940	6904	257	5806	60

Highlighted cell indicates new or changed loggings

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

^ Weak reception

NH Not Heard

NF Not Found

\* Time of transmissions offset due to length of message

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Fri 1	1800	10343	1820	9264	8116	124	55
Sat 2	1310	13873	1330	13373	---	834	
	2110	16269	2130	14669	---	263	
Sun 3	1830	10843	1850	9243	7843	828	153
Mon 4	0430	6857	0450	7557	---	850	
	1300	14524	1320	13524	11524	555	83
	1600	12162	1620	11566	10711	546	83
	1700	9176^	1720	7931	6904	257	77
	1800	9176	1820	7931	6904	257	67
	1900	9176	1920	7931	6904	257	73
Tue 5	0340	8173	0400	9173	---	111	
	1830	10343	1850	9264	8116	124	49
Wed 6	1500	14964	1520	13972	12164	555	83
	1700	8044	1720	6802	5788	463	49
	1830	10843	1850	9243	7843	828	247
	1830	11435	1850	10598	9327	938	49
	2100	9986	2120	9086	---	903	
	2110	16269	2130	14669	13369	263	75
Thu 7	0340	8173	0400	9173	---	111	
	0630	7984	0650	9184	---	911	
	1700	9176	1720	7931	6904	257	88
	1700	10343	1720	9264	8116	124	80
	1800	10343	1820	9264	8116	124	65
	1900	9176	1920	7931	6904	257	40

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Fri 8	1800	10343	1820	9264	8116	124	58
Sat 9	Not	Moni	-tored				
Sun 10	1830	10843	1850	9243	7843	828	247
Mon 11	0430	6857^	0450	7557	---	850	
	1300	14524	1320	13524	11524	555	99
	1600	12162	1620	11566	10711	546	71
	1700	9176	1720	7931	6904	257	79
	1800	9176	1820	7931	6904	257	65
	1900	9176	1920	7931	6904	257	50
Tue 12	1830	10343	1850	9264	8116	124	98
Wed 13	1500	14964	1520	13972	12164	555	99
	1700	8044	1720	6802	5788	463	64
	1830	10843	1850	9243	---	828	
	1830	11435	1850	10598	9327	938	96
	2100	9986	2120	9086	---	903	
	2110	16269	2130	14669	---	263	
Thu 14	0630	7984	0650	9184	---	911	
	1700	9176	1720	7931	6904	257	73
	1700	10343	1720	9264	8116	124	72
	1800	10343	1820	9264	8116	124	92
	1900	9176	1920	7931	6904	257	47

Highlighted cell indicates new or changed loggings

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

^ Weak reception      NH Not Heard      NF Not Found

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Fri 15	1800	10343	1820	9264	1840	8116	124	5736	84
Sat 16	1310	13873	1330	13373	1350	- - -	834	0 0 0	
	2110	16269	2130	14669	2150	- - -	263	0 0 0	
Sun 17	1830	10843	1850	9243	1910	- - -	828	0 0 0	
Mon 18	0430	6857	0450	7557	0510	- - -	850	0 0 0	
	1300	14524^	1320*	13524^	1351*	11524	555	548	289
	1600	12162^	1620	11566^	1640	10711	546	6622	85
	1700	9176^	1720	7931^	1740	6904	257	2188	77
	1800	9176^	1820	7931^	1840	6904^	257	??	??
	1900	9176^	1920	7931^	1940	6904^	257	2407	79
Tue 19	1830	10343	1850	9264	1910	8116	124	7885	57
Wed 20	1500	14964	1520*	13972	1551*	12164	555	548	289
	1700	8044	1720	6802	1740	5788	463	9786	48
	1830	10843	1850	9243	1910	7843	828	353	211
	1830	11435	1850	10598	1910	9327	938	3643	61
	2100	9986	2120	9086	2140	- - -	903	0 0 0	
	2110	16269	2130	14669	2150	- - -	263	0 0 0	
Thu 21	0630	7984^	0650	9184	0710	- - -	911	0 0 0	
	1700	9176^	1720	7931^	1740	6904	257	8433	61
	1700	10343	1720	9264^	1740	8116	124	2672	70
	1800	10343	1820	9264	1820	8116	124	3427	42
	1900	9176^	1920	7931	1940	6904	257	7213	63

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Fri 22	1800	10343	1820	9264	1840	8116	124	8289	75
Sat 23	1310	13873	1330	13373	1350	11473	834	119	131
	2110	16269	2130	14669	2150	- - -	263	0 0 0	
Sun 24	1830	10843	1850	9243	1910	7843	828	353	211
Mon 25	0430	6857	0450	7557	0510	- - -	850	0 0 0	
	1300	14524	1320	13524	1340	11524	555	261	191
	1600	12162^	1620	11566	1640	10711	546	979	53
	1700	9176^	1720	7931	1740	6904	257	5514	76
	1800	9176	1820	7931	1840	6904	257	9349	52
	1900	9176	1920	7931	1940	6904	257	7430	67

\*    Time of transmissions offset due to length of message

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

^    Weak reception                    NH    Not Heard                    NF    Not Found

Highlighted cell indicates new or changed loggings



Family 1A History and July predictions - 27th June 2012

Station		2012	2012	2012	2012	ID	ID	ID	ID	week
Day	time (utc)	April	May	June	July	Apr	May	June	July	
G06 mon	08.00	6774	6948	6948	6948	215	215	215	215	every
G06 mon	17.00	4639	5284	5284	5284	154	154	154	154	1 & 2
G06 mon	18.00	5378	4896	4896	4896	154	154	154	154	1 & 2
S06 mon	19.00/05	5784/5127	7982/6984	7982/6984	7982/6984	349	349	349	349	every
S06 mon	18.15	13440	15835	15910		116	426	832		2 & 4
S06 mon	19.15	11105	13490	13 mhz ?		116	426	832		2 & 4
M14 tues	07.00	8120	9085	9085	9085	362	576	576	576	2
M14 tues	08.00	7395	9 mhz ?			362	576	576	576	2
S06 tues	18.00	5890				286				1 & 2
M14 tues	18.20	5947	6856	6856	6856	346	163	163	163	2 & 4
M14 wed	19.20	5463	5932	5938	5938	537	417	417	417	2 & 4
E06 wed	19.20	4615	5769	5769	5769	154	154	154	154	2
E06 wed	20.20	3704	4783	4783	4783	154	154	154	154	2
E06 thur	05.00	13530	14460	14710	14580	951	460	328	679	every
E06 thur	06.00	14910	16170	16240	16090	951	460	328	679	every
S06 thur	08.30	?	16/17 mhz?			842	842	842	842	every
S06 thur	09.30	16318	14736			842	842	842	842	every
G06 thur	18.30	5934	6887	6887	6887	579	842	842	842	2 & 4
S06 thur	19.00/05	5784/5127	7982/6984	7982/6984	7982/6984	349	349	349	349	every
E06 thur	20.30	5186	5948	5948	5948	891	724	724	724	1 & 3
M14 fri	18.00	8193				269	269	269	269	1st
G06 fri	19.30	5442	5943	5943	5943	947	218	218	218	2 & 4
E06 fri	21.30	5197	5731	5731	5731	315	315	315	315	1 & 3
E06 sat	00.30	6918	8099	8142	9061	759	759	759	759	every
E06 sat	01.30	5133	6949	7608	7844	759	759	759	759	every
M14 sat	09.00	5561				171				every
S06 sat	16.00/05	8162/7612	8157/6983	8157/6983	8157/6983	134	134	134	134	every
S06 sat	19.00	6942	11438	11437	11437	314	314	314	314	1 & 3
S06 sat	19.00	5317	7847	7847	7847	416	416	416	416	1 & 3
S06 sat	19.30/35	6788/4958	7884/6783	7884/6783	7884/6783	843	843	843	843	every
S06 sat	20.00	4492	6916	6916	6916	416	416	416	416	1 & 3
S06 sat	20.00	5923	9432	9432	9432	314	314	314	314	every
E06 sun	11.20	7471	8mhz?			154	154	154	154	Wed R
E06 sun	12.20	6mhz?	7 mhz?			154	154	154	154	Wed R

Sat S06 1600/1930 repeats messages on Weds 2000 and 1930 respectively

WED R = repeat of 2nd Weds      NRH = Nil required heard

## E07 Regular Schedules

### Monday

	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
1900				12108	14812	15824	14812	14378	12108	10243		
1920				10708	13412	14624	13412	13458	10708	9243		
1940				9208	11512	13524	11512	10958	9208	7943		
2000	6982	7724	9273								7724	7478
2020	5882	6924	7873								6924	6778
2040	5182	5824	6873								5824	5278

### Wednesday

	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
1700				12123	13388	13468	13468	13388	12223	11454		
1720				10703	12088	12141	11454	12088	11062	9423		
1740				8123	10118	10436	10126	10504	10116	8123		
1800	6774	7697	9923								8183	6982
1820	5836	6863	9068								6982	5836
1840	4893	5938	7697								5938	4938
1900				12108	14812	15824	14812	14378	12108	10243		
1920				10708	13412	14624	13412	13458	10708	9243		
1940				9208	11512	13524	11512	10958	9208	7943		
2000	6982	7724	9273								7724	7478
2020	5882	6924	7873								6924	6778
2040	5182	5824	6873								5824	5278
2000				8173	8173	8173	8173	8173	8173	5864		
2020				7473	7473	7473	7473	7473	7473	5164		
2040				5773	5773	5773	5773	5773	5773	4564		
2100	5864	5864	5864								5864	5864
2120	5164	5164	5164								5164	5164
2140	4564	4564	4564								4564	4564

### Thursday

	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
0430				7437	7437	7437	7437	7437	7437	5146		
0450				8137	8137	8137	8137	8137	8137	5846		
0510				9137	9137	9137	9137	9137	9137	6846		
0530	5146	5146	5146								5146	5146
0550	5846	5846	5846								5846	5846
0610	6846	6846	6846								6846	6846
2010				9387	11539	12213	11539	10753	9387	7516		
2030				7526	10547	10714	10547	9147	7526	5836		
2050				5884	9388	9347	9388	7637	5884	4497		
2110	6777	6777	7516								6777	6777
2130	5449	5449	5836								5449	5449
2150	4483	4483	4497								4483	4483

### Saturday

	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
0800				12218	12177	13373						
0820				13418	13477	14373						
0840				14418	14877	15873						
0900		11053	11133									
0920		12153	12133									
0940		13553	13433									

### Sunday

	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
1700				12123	13388	13468	13468	13388	12223	11454		
1720				10703	12088	12141	11454	12088	11062	9423		
1740				8123	10118	10436	10126	10118	10116	8123		
1800	6774	7697	9923								8183	6982
1820	5836	6863	9068								6982	5836
1840	4893	5938	7697								5938	4938

The hundredths digit in each frequency trio gives the ID  
i.e. 6774 5836 4893 = 788

The status of Tuesday and Thursday 0700/0800 schedule is unknown. Last heard early Nov 11. It may have ended?

*Revised 2<sup>nd</sup> June 2012*

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	May kHz, ID, ...	Jun kHz, ID, ...	Jul kHz, ID, ...	Aug kHz, ID, ...	General Remarks
x							0450		E11	03	10800 416/00	10800 416/00	10800 416/00	10800 416/00	since 02/10, <b>last log 06/12</b>
x	x		x				0645		E11	03	13424 517/00	13424 517/00	13424 517/00	13424 517/00	since 07/09, <b>last log 05/12</b>
x				x			0710		E11	03	14753 633/00	14753 633/00	14753 633/00	14753 633/00	since 02/11, <b>last log 06/12</b>
x		x					0745		E11	03	335/00, search	335/00, search	335/00, search	335/00, search	since 10/11, <b>last log 04/12</b>
x			x				0820		E11	03	6280 438/00	6280 438/00	6280 438/00	6280 438/00	since 10/09, <b>last log 06/12</b>
x			x				0830		E11	03	12924 649/00	12924 649/00	12924 649/00	12924 649/00	since 01/10, <b>last log 06/12</b>
x		x					0900		E11	03	13427 534/00	13427 534/00	13427 534/00	13427 534/00	since 10/09, <b>last log 05/12</b>
			x		x		0900		E11	03	4909 248/00	4909 248/00	4909 248/00	4909 248/00	since 02/10, <b>last log 04/12</b>
x				x			0915		S11A	03	8530 484/00	8530 484/00	8530 484/00	8530 484/00	since 01/10, <b>last log 06/12</b>
x			x				0940		G11	03	6986 275/00	6986 275/00	6986 275/00	6986 275/00	since 01/10, <b>last log 04/12</b>
x			x				1015		S11A	03	16530 475/00	16530 475/00	16530 475/00	16530 475/00	since 04/10, <b>last log 05/12</b>
x				x			1020		S11A	03	11581 426/00	11581 426/00	11581 426/00	11581 426/00	since 02/10, <b>last log 06/12</b>
		x			x		1020		S11A	03	5815 221/00	5815 221/00	5815•221/00	5815•221/00	since 01/09, <b>last log 06/12</b>
<b>x</b>							<b>1045</b>		<b>E11</b>	<b>03</b>	<b>576/00, search</b>	<b>576/00, search</b>	<b>576/00, search</b>	<b>576/00, search</b>	since 01/12, <b>last log 04/12</b>
x	x						1045		E11	03	9610 469/00	9610 469/00	9610 469/00	9610 469/00	since 03/10, <b>last log 06/12</b>
				<b>x</b>			<b>1110</b>		<b>E11</b>	<b>03</b>	<b>95#/00, search</b>	<b>95#/00, search</b>	<b>95#/00, search</b>	<b>95#/00, search</b>	since 12/11, <b>last log 03/12</b>
x	x	x					1115		M03	03	7837 272/00 (Tue) & 650/00 (Wed/Thu)	7837 272/00 (Tue) & 650/00 (Wed/Thu)	7837 272/00 (Tue) & 650/00 (Wed/Thu)	7837 272/00 (Tue) & 650/00 (Wed/Thu)	since 10/09, <b>last log 05/12</b>
		x	x			x	1155		E11	03	16335 718/00	16335 718/00	16335 718/00	16335 718/00	since 04/11, <b>last log 05/12</b>
			x			x	1320		M03	03	7837 437/00	7837 437/00	7837 437/00	7837 437/00	since 02/11, <b>last log 05/12</b>
				x	x		1325		G11	03	5815 299/00	5815 299/00	5815 299/00	5815 299/00	since 03/10, <b>last log 06/12</b>
x					x		1400		E11	03	98#/00, search	98#/00, search	98#/00, search	98#/00, search	since 10/11, <b>last log 04/12</b>
					<b>x</b>		<b>1420</b>		<b>M03</b>	<b>03</b>	<b>13911 879/00</b>	<b>13911 879/00</b>	<b>13911 879/00</b>	<b>13911 879/00</b>	since 01/12, <b>last log 04/12</b>
		x			x		1445		E11	03	4909 287/00	4909 287/00	4909 287/00	4909 287/00	since 01/10, <b>last log 04/12</b>
x				x	x		1535		M03	03	6524 798/00	6524 798/00	6524 798/00	6524 798/00	since 11/10, <b>last log 05/12</b>
x						x	1540		E11	03	16335 228/00	16335 228/00	16335 228/00	16335 228/00	since 03/11, <b>last log 06/12</b>
			x				1730		E11	03	8088 416/00	8088 416/00	8088 416/00	8088 416/00	since 03/10, <b>last log 05/12</b>
x						x	1755		G11	03	5815 270/00	5815 270/00	5815 270/00	5815 270/00	since 02/10, <b>last log 06/12</b>
<b>x</b>							<b>2000</b>		<b>E11</b>	<b>03</b>	<b>757/00, search</b>	<b>757/00, search</b>	<b>757/00, search</b>	<b>757/00, search</b>	since 12/11, <b>last log 04/12</b>
				x		x	2000		G11	03	3815 262/00	3815 262/00	3815 262/00	3815 262/00	since 01/11, <b>last log 06/12</b>

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	May kHz, ID, ...	Jun kHz, ID, ...	Jul kHz, ID, ...	Aug kHz, ID, ...	General Remarks
x							0800		G06	01A	6948 215	6948 215	6948 215	6948 215	since 07/10, <b>last log 06/12</b>
	x						1200		G06	01A	154, search	154, search	154, search	154, search	since 01/11, last log 02/12 yearly changing id
		x					1200		G06	01A	215, search	215, search	215, search	215, search	since 09/11, <b>last log 04/12</b>
	x						1300		G06	01A	154, search	154, search	154, search	154, search	since 10/11, last log 02/12 yearly changing id
		x					1300		G06	01A	215, search	215, search	215, search	215, search	since 09/11, <b>last log 04/12</b>
x							1700	1/2	G06	01A	154, search	154, search	154, search	154, search	since 04/10, <b>last log 04/12</b> yearly changing id
x							1800	1/2	G06	01A	154, search	154, search	154, search	154, search	since 05/09, last log 04/12 yearly changing id
		x					1830	2/4	G06	01A	6887 842	6887 842	6887 842	6887 842	since 05/01, <b>last log 05/12</b>
			x				1930	2/4	G06	01A	5943 218	5943 218	5943 218	5943 218	since 04/01, <b>last log 05/12</b> rpt of Thu 1830Z

S06s schedule - amended - 27th June 2012

Day	time (utc)	jan feb nov dec	mar apr sep oct	may jun jul aug	ID	
Mon	12.00	8420	9145	10230	831	1 hour later Oct to March
	12.10	10635	11460	12165	831	
Mon	16.00	7436	8040	9256	176	
	16.10	6668	6830	7889	176	
Tue	06.00		14080	16735	438	
	06.10		12355	15230	438	
Tue	07.00	5250	5760	5430	374	
	07.15	6320	6930	6780	374	
Tue	08.00	10265 / ?	11635	14373	352	
	08.10	9135 / 12330	10420	12935	352	
Tue	10.00	6440	6410		893	1 hour later Oct to April
	10.10	5660	7340		893	
Tue	12.30	5810	4 mhz?	7650	278	
	12.40	6770	5805	6125	278	
Tue	15.00	5070	6464	6666	537	
	15.10	6337	7242	7744	537	
Wed	05.30	9435	10835/10285	11435	153	
	05.40	11075	12170/11405	12650	153	
Wed	07.30	7335	7335	7335	745	
	07.40	11830	11830	11830	745	
Wed	08.20	6880	7605	6755	471	
	08.30	7840	9255	5835	471	
Wed	08.40	9260	9480	10120	328	
	08.50	11415	11040	9670	328	
Wed	10.00	12365	13365	14580	729	
	10.10	14280	14505	16020	729	
Wed	12.00	7030	7120	7765	481	
	12.10	6305	6415	6815	481	
Wed	12.30	4580	7620	7545	967	
	12.40	6420	8105	8220	967	
Wed	19.00	8530	9220	10170	371	
	19.10	7520	8270	9110	371	
Thur E17z	08.00	11170	14260	16780	674	
	08.10	9820	12930	12850	674	
Thur	09.00	12952	12952	12952	167	
	09.10	13565	13565	13565	167	
Thur	09.30	7865	8650	9255	314	
	09.40	5310	7385	7630	314	
Thur	12.00	12155	12415	12155	425	
	12.10	10920	14212	14535	425	
Thur	14.00	5320 / 5410	5410	5320 ?	624	
	14.10	4845 / 6770	6770	4845 ?	624	
Fri	06.00	5460	6340	8720	934	1 hour later Sept to March
	06.10	7070	5470	10415	934	
Fri	06.00	7150	7795	7845	196	
	06.10	8215	8695	9125	196	
Fri	09.30	11780	12140	10290	516	
	09.40	12570	13515	9655	516	
Sat	12.00	8680	10350	12460	254	Only week 1
	12.10	8260	8520	10250	254	

Status of ID 418, 371 and 872 are unknown

**Current Cuban Skeds Heard From 0000-0700 UTC**  
**This covers 1900-0200 local EDT in the USA**  
**(May-June 2012)**

SUN	0000	0100	0200	0300	0400	0500	0600	0700
							9124(SK)0600	5883(P)
							9063(SK)0630	
						5898(P)	5800(S)	

MON	0000	0100	0200	0300	0400	0500	0600	0700
				6855(P)	5117(S)		11435(SK)0600	5883(P)
				5800(P)	6768(S)		11532(SK)0630	
					4035()			
						5898(P)	5800(S)	

TUE	0000	0100	0200	0300	0400	0500	0600	0700
							9124(SK)0600	5883(P)
							9063(SK)0630	
						5898(P)	5800(S)	

WED	0000	0100	0200	0300	0400	0500	0600	0700
							11435(SK)0600	5800(SK)
							11532(SK)0630	
							9063(SK)0600	
							5898(SK)0630	
						5810(P)(?)	5810(S)(?)	9153(P)

THUR	0000	0100	0200	0300	0400	0500	0600	0700
							9124(SK)0600	5883(P)
							9063(SK)0630	
				10445(P)	11565(S)	5898(P)	5800(S)	

FRI	0000	0100	0200	0300	0400	0500	0600	0700
		4028(P)	5417(S)				11435(SK)0600	5883(P)
							11532(SK)0630	
						5898(P)	5800(S)	9153(P)

SAT	0000	0100	0200	0300	0400	0500	0600	0700
		6768(P)	5762(S)				11435(SK)0600	5883(P)
							11532(SK)0630	
						5898(P)	5800(S)	

New possible skeds found:

**Current Cuban Skeds Heard From 0800-1500 UTC**  
**This covers 0300-1000 local EDT in the USA**  
**(May-June 2012)**

SUN	0800	0900	1000	1100	1200	1300	1400	1500
	5898(S)							
		10432(P)	9112(S)					

MON	0800	0900	1000	1100	1200	1300	1400	1500
	5898(S)							
	8186(SK)	9063(SK)						
			7319()					

		10432(P)	9112(S)			7579(P)	8096(S)	
--	--	----------	---------	--	--	---------	---------	--

TUE	0800	0900	1000	1100	1200	1300	1400	1500
	5898(S)		8186(SK)1000					
	8180(SK)	8180(SK)	7890(SK)1030					
		5947(SK)0900(?)						
		5930(SK)0930(?)						

						7579(P)	8096(S)	
--	--	--	--	--	--	---------	---------	--

WED	0800	0900	1000	1100	1200	1300	1400	1500
	5898(SK)(?)	9040(P)	9240(S)					
	8186(SK)	9063(SK)						

	9063(S)					7579(P)	8096(S)	
--	---------	--	--	--	--	---------	---------	--

THUR	0800	0900	1000	1100	1200	1300	1400	1500
	5898(S)	8180(SK)	8186(SK)1000					
	8180(SK)	5947(SK)0900	7890(SK)1030					
		5930(SK)0930						

						7579(P)	8096(S)	
--	--	--	--	--	--	---------	---------	--

FRI	0800	0900	1000	1100	1200	1300	1400	1500
	5898(S)							
	9063(S)	10432(P)	9112(S)			7579(P)	8096(S)	

SAT	0800	0900	1000	1100	1200	1300	1400	1500
	5898(S)	9040(P)	9240(S)					
	8186(SK)	9063(SK)						
	5883(SK)	5947(SK)0900						
		5930(SK)0930						
				4478(?)				

New skeds found:

Monday 1000z

7319m

M08a

kc5mo

June 4, 2012



**Current Cuban Skeds Heard From 1600-2300 UTC**  
**This covers 1100-1800 local EDT in the USA**  
**(May-June 2012)**

SUN	1600	1700	1800	1900	2000	2100	2200	2300

MON	1600	1700	1800	1900	2000	2100	2200	2300
	6768(SK)							
				6785(P)	7554(S)		7519(P)	8009(S)
			8097(P)	8097(S)				

TUE	1600	1700	1800	1900	2000	2100	2200	2300
	6768(SK)			12180(P)	13380(S)			
				6785(P)	7554(S)		7526(P)	8135(S)

WED	1600	1700	1800	1900	2000	2100	2200	2300
	6768(SK)							
				6785(P)	7554(S)		7519(P)	8009(S)
			8097(P)	8097(S)		6932(P)	6854(S)	

THUR	1600	1700	1800	1900	2000	2100	2200	2300
	6768(SK)			12180(P)	13380(S)			
				6785(P)	7554(S)		8009(P)	8135(S)
						6932(P)	6854(S)	

FRI	1600	1700	1800	1900	2000	2100	2200	2300
	6768(SK)							
				6785(P)	7554(S)		7519(P)	8135(S)
			8097(P)	8097(S)				

SAT	1600	1700	1800	1900	2000	2100	2200	2300
				6785(P)	7554(S)			
			8097(P)	8097(S)				

**Notes:**

Skeds in MCW mode indicated in shaded cell.

V2a skeds are indicated in italic fonts.

M8a skeds are indicated in normal fonts.

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

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

All skeds normally begin on the hour.

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

Frequencies listed without ( ), denotes a possible sked.

Skeds with (?) have not been heard in over two months.

**SK01 notes:**

At present SK01 seems to be using exclusively RDFT mode.

--Updated June 26, 2012--

*Cuban Desk Contributors:*

*H. Tate (kc5mo)*

*Mark Slaten*

**XPA Polytones**

**May2012**

XPA b [MFSK-20 Russian Intelligence Multitone System] 10 bd

1.0440z 9287kHz 2. 0500z 10487kHz 0520z 11487kHz  
ID244 Mode: USB [Tue/Thu]

**ID/msg/serial no/gc/dk/end grp**

01Tue	244 000 06532 00001 00000 10140	[2m26s]
03Thu	244 000 06532 00001 00000 10140	[2m26s]
08Tue	244 000 06532 00001 00000 10140	[2m26s]
10Thu	244 000 06532 00001 00000 10140	[2m26s]
15Tue	244 000 06532 00001 00000 10140	[2m26s]
17Thu	244 000 06532 00001 00000 10140	[2m26s]
22Tue	244 000 06532 00001 00000 10140	[2m26s]
24Thu	244 000 07293 00001 00000 10140	[2m26s]
29Tue	244 000 07293 00001 00000 10140	[2m26s]
31Thu	244 000 07293 00001 00000 10140	[2m26s]

**XPA b: Early Morning Schedule**

As expected, good, strong signals across the schedule throughout the month

XPA e [MFSK-20 Russian Intelligence Multitone System] 10 bd

1.1730z 10438kHz 2.1750z: 9938kHz 3.1810z: 9138kHz  
ID491 Mode: USB [Tue/Thu]

**ID/msg/serial no/gc/dk/end grp**

01Tue	491 000 03355 00001 00000 10140	[2m26s]
03Thu	491 000 09875 00001 00000 10140	[2m26s]
08Tue	491 1 00200 00119 50888 66410	[3m39s]
10Thu	491 1 00200 00119 50888 66410	[3m39s]
15Tue	491 1 00933 00175 22285 62032	[4m13s]
17Thu	491 1 00933 00175 22285 62032	[4m13s]
22Tue	491 000 09875 00001 00000 10140	[2m26s]
24Thu	491 000 07643 00001 00000 10140	[2m26s]
29Tue	491 1 00774 00217 36320 66663	[4m37s]
31Thu	491 1 00774 00217 36320 66663	[4m37s]

**XPA e: 1730z Evening schedule**

Variable signals from Strong, fair and weak as this schedule has progressed across the month.  
Some effects of QRN also felt.

XPA b [MFSK-20 Russian Intelligence Multitone System] 10 bd

1.0440z 10173kHz 2.0500z 11073kHz 0520z 12173kHz

ID101 Mode: USB [Tue/Thu]

**ID/msg/serial no/gc/dk/end grp**

05Tue 101 000 05746 00001 00000 10140 [2m26s]

07Thu 101 000 08692 00001 00000 10140 [2m26s]

12Tue NRH

14Thu NRH

19Tue NRH

21Thu NRH

26Tue NRH

28Thu NRH

XPA b: Early Morning Schedule

Good strong signals right to the end of this most enigmatic schedule.

Another person has been arrested that is concerned with Chapman and her two German colleagues; perhaps that was who received the two messages send in the remaining two slots of the October 2011 schedule?

XPA [MFSK-20 Russian Intelligence Multitone System] 10 bd

1730z 10438kHz 2.1750z: 9938kHz 3.1810z: 9138kHz

ID491 Mode: USB [Tue/Thu]

**ID/msg/serial no/gc/dk/end grp**

05Tue 491 1 00700 00281 03204 12344 [5m17s]

07Thu 491 1 00700 00281 03204 12344 [5m17s]

12Tue 491 1 00926 00097 66971 72764 [3m25s]

14Thu 491 1 00926 00097 66971 72764 [3m25s]

19Tue 491 1 00790 00119 95670 65140 [3m38s]

21Thu 491 1 00790 00119 95670 65140 [3m38s]

26Tue 491 1 00778 00153 07694 14264 [3m58s]

28Thu 491 1 00778 00153 07694 14264 [3m58s]

XPA e: 1730z Evening schedule

Generally fair strengths across the schedule; some noise noticeable too.



2012

Source: Veritas42.com

January

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

February

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

March

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

April

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

May

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

June

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

July

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

August

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

September

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

October

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

November

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

December

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