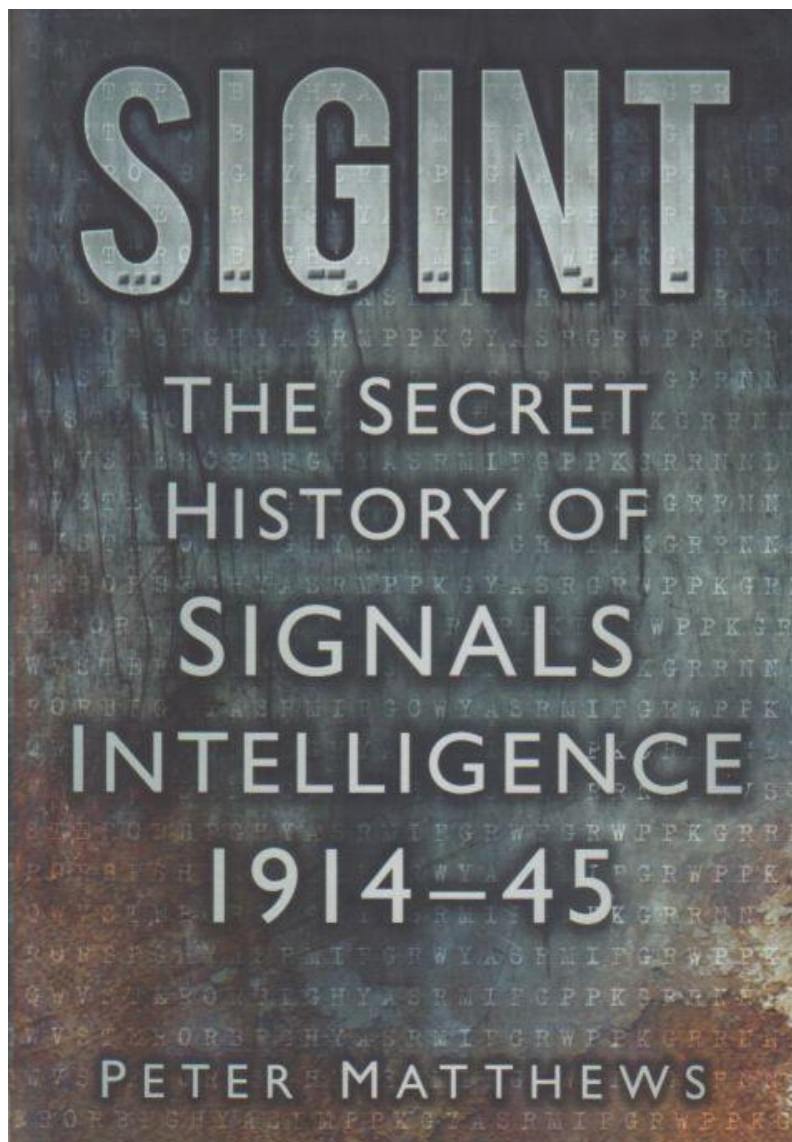


ENIGMA 2000 NEWSLETTER



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



An excellent read; it's all there in detail, the allied and especially axis SIGINT attempts about which so little has been written.

A must have book



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

Interesting Unid noticed by PoSW

Unusual transmission - first noted on Thursday 26-September at 2134 UTC on 5,050 kHz, a single audio tone, probably somewhere between 400 and 500 Hz.

This drew attention to itself by virtue of its signal strength, S9+, by far the strongest signal in this part of the short wave spectrum.

A steady signal with only slight variations in S-meter reading. Still on at 0550 UTC on 27-September and at 1800 UTC in the evening, was on whenever checked over the weekend of the 28th and 29th and was still S9+ on Monday the 30th.

I made a note to borrow a frequency counter from the works QTH to connect up to the low level audio output of the receiver to determine the exact frequency of the tone but it had gone when checked again on Tuesday 1 – October and not heard again on this frequency. However, what appeared to be the same tone showed up on Friday 4 – October on 5,775 kHz at 1830 UTC, also S9+.

Had gone when checked again at 1900 UTC but was back again the following day at 1035 UTC and was on at 0930 UTC on Sunday 6 – October. Had gone at 1700 UTC, and not heard since.

Thanks Peter.

Morse Station Roundup.

M01 As many Morse monitors will know, you never quite know what to expect from the regular M01 transmissions. Of late they have dropped the continuous stream of numbers technique, and have been adding irregular spacing between numbers to confuse and mislead - often sending a 5 fig group as 3 + 2, so you have to keep on the ball to avoid getting lost. Add to this the usual mix of errors with the repeated groups and the occasional group which is sent once only & this station still continues to provides good training, not only for the intended recipients - but for us ENIGMA monitors too..

A further selection of M01b logs are included along with another odd M01c.

M08a Still sending msgs to date. Again, we are indebted to AnonUS for managing to root out those remaining scheds.

M12 In addition to the usual logs he regularly supplies, Fritz (FN) sends us an impressive list of holidays logs received using a minimal set-up. The new Thursday 1600z sched, ID 725, found by Richard (RNGB) in August has continued to appear, so looks like another regular sched

M14 A good selection of logs featuring the favoured 15 group msgs, a couple with much higher group count & a few null msgs.

M23 Jim (JkC) with some excellent monitoring work discovered a couple of scheds operating in mid-September - both sending on a morning & evening schedule. Another pair was then discovered giving us three daily scheds on paired frequencies that continued throughout September with some changes to call & times. From there the schedules seemed to become quite confusing before all transmissions ceased towards the end of October.

M51 Still appearing, apparently at random sending continuous 100 grp msgs for hours on end without ID, while M51a - the better behaved sister station sticks to the regular schedules on 3881//6825kHz, always with the call FAV22.

M89 A most unusual treat greeted Jean-Paul (JPL) on 10 Oct when copying one of M98 'Op. chat' exchanges. In amongst the usual chatter and CW shorthand came a couple of msgs sent in English, well - almost English.. 'Who are you?' & 'Who are who I are U K'.

Jean-Paul (JPL) continues to seek out those new freq pairs and changes to the existing schedules that seem to be a characteristic of this network.

M97 A disappointing two months for those monitoring M97. Bearing in mind the difficulties in receiving this station in Europe only one transmission was received, thanks to Guy (GD). Unfortunately it was monitored towards the end of the transmission so we have no details of what msg number was used.

Beacons To round off the Morse section we have another small selection of beacon logs.

Hybrid Station

HM01

The Cubans seem to have got their act together somewhat of late but have been providing some interest with minor format changes to their transmissions and a few other items of interest.

First reports of a possible format change were made on September 20th. The "old" format being a series of callups followed by alternating single callups and RDFT transmissions followed by a pause of approximately 3 minutes and 30 seconds and then a repeat of the first round of transmissions ending approximately 5 minutes before the end of the hour. This would repeat on the next frequency starting at the top of the next hour.

The "new" format involved essentially the same format but with just a few seconds pause between the end of the RDFT and the start of the next round of callups. This would loop continually with frequency changes taking place mid-transmission at the top of every hour. It seems this minor format change would reduce the workload of the operators as there was no need to stop and start the transmissions to keep them in sequence, all they would have to do is change frequency every hour. On some occasions the final RDFT burst would be cut off mid way through when the next round of callups started. This "new" format persisted until the end of September before reverting to the original way of doing things in October.

Several other oddities occurred during September/October.

On 16/9 a new set of callups appeared [83381 22574 15441 50182 08444 51835]. The delivery of 83381 was noticeably slower than the other 5 callups. The same callups persisted for several days until on 22/9 83381 was replaced with 56801 delivered at normal speed. All the other callups remained the same. Then on 24/9 at 1600z both sets of callups were transmitted simultaneously. The version with 56801 was transmitted for the next two days and then the 83381 version persisted until the end of the month.

Since 1/10 callups have been incremented almost daily although with a few mistakes along the way.

On 22/9 following the 2200z transmission the Windows XP shutdown music was heard. Although the carrier came up for the 2300z transmission no HM01 was heard.

On 29/9 HM01 was heard on 7554kHz at 2000z and 8135kHz at 2300z. These should have both been M08a transmissions.

Some time during the first week of October several of the 0500-1000z transmissions seemed to be missing. During the period of October 8th to the 18th several new frequencies came into use but things had reverted to normal by the 20th. These changes are reflected in the schedule for this month. Nothing was heard in the 0500z slot during this period and in most of the cases it seems that the transmitter was left on the same frequency at least 2 hours from 0600z onwards.

Further analysis: Most of the RDFT transmissions were of .TXT files of approximately 1000 bytes in size and containing random hex numbers from 0 to 255. One file was sent that was substantially smaller. This file replaced the one sent by callup 56801 reported in the last newsletter. As is common the last 4 of the text file name is the same as the callup. (8338)

31188338.txt 678 bytes

File contents are below.

Byte 0 is 62 or b in ASCII = Binary

Byte 1 is 68 which means the file name starts with 31 (Matches 2 SK01 files transmitted in 2010 and two previous HM01 files)

Byte 2 is 01 (Expected 00 or 01)

Byte 3 is 75 (This byte may contain Hex letters and in this case it does not)

Byte 4 is normally 00 or 01 (and is 00 in this case)

Byte 5 believed to be the start of the message.

As with the previous HM01 messages there are some apparently randomly spaced bytes reading B0 to B9. Unknown significance at this point.

62 68 01 75 00 18 53 79 35 30 01 45 54 40 18 18
96 73 03 53 90 82 72 56 58 28 69 23 67 37 15 66
98 89 26 81 99 56 38 77 45 17 29 53 75 43 29 28
49 05 46 35 49 50 97 58 54 99 41 35 37 95 76 21
96 67 78 b7 42 94 09 60 64 10 91 32 70 33 70 92
89 97 18 99 84 51 23 04 10 36 19 40 05 01 18 47
41 18 27 77 63 69 77 23 34 85 58 50 13 58 89 88
68 51 00 79 22 02 64 15 17 25 b5 61 81 89 28 10
84 01 57 26 21 b4 68 06 64 09 65 21 08 46 12 96
90 58 68 83 17 13 85 02 24 27 46 81 46 03 41 54
50 30 74 14 01 67 46 75 73 65 65 46 43 68 84 07
57 04 34 75 98 06 71 95 18 98 86 11 04 33 48 02
12 06 85 13 63 00 39 67 98 19 20 35 56 90 57 55
63 12 52 98 52 00 92 25 56 62 69 73 33 37 62 88
10 14 89 57 09 66 33 59 80 09 39 10 18 34 b6 72
01 87 10 43 97 79 36 76 52 57 66 75 91 66 36 04
81 88 93 03 33 88 24 72 54 35 48 92 59 57 57 19
48 79 80 61 83 30 71 43 21 52 71 27 79 98 45 73
53 95 82 30 41 45 66 51 74 94 83 83 27 b8 25 81
80 81 90 68 48 41 62 02 23 52 05 31 04 88 48 15
39 16 11 02 58 21 87 40 36 70 24 42 11 06 87 61
06 92 28 28 60 84 51 80 62 72 34 51 48 37 19 33
67 37 27 21 39 21 08 69 91 15 22 72 98 37 31 86
b1 48 80 97 09 28 76 03 41 28 76 69 21 43 37 b5
87 64 42 31 80 56 62 87 56 30 69 06 60 75 80 98
76 06 58 81 81 80 26 41 76 13 b8 80 98 13 26 94
92 89 44 96 11 78 69 90 45 75 72 47 03 79 36 15
52 20 65 88 25 05 96 20 27 86 82 85 20 49 09 85
12 84 10 59 31 10 33 72 21 25 67 12 97 91 27 14
97 44 37 14 84 82 98 40 88 67 41 85 89 78 43 73
55 05 10 29 99 12 02 36 43 10 84 05 37 44 63 02
74 88 01 72 88 51 72 11 90 21 68 62 01 62 07 80
15 74 84 79 41 25 47 65 99 41 30 53 42 25 32 65
09 39 70 13 23 08 65 26 48 47 72 b2 79 98 41 20
16 45 87 95 23 07 91 87 64 68 53 23 69 92 83 16
39 99 69 16 73 48 60 51 96 09 70 63 06 42 29 19
00 12 78 10 05 57 02 58 33 21 92 34 47 76 83 50
98 95 03 96 20 56 94 83 21 97 51 78 01 73 98 29
88 93 34 91 88 65 78 31 61 25 66 49 54 32 66 22
95 80 04 23 66 23 08 48 65 43 15 26 33 66 97 18
80 88 72 01 69 67 17 22 04 80 19 87 76 99 15 93
25 71 86 59 57 29 20 04 97 08 30 54 16 72 08 17
22 62 32 55 69 79

Voice Stations Round up

E06 Usual coverage from this station, sadly missed is '759' the early weekend morning station.

E07 The expected mixed bag of signals strengths and qualities and change of freqs for the 1700z Sunday/Wednesday repeats
E07a continues much as before. Like to remind E07 monitors of the 2110/2130/2150 Thursday schedule

E17z Usual low group count messages.

E25 In-so-far as a definite connection of UNID 9400kHz to E25, still not 100% sure but nonetheless very compelling evidence pops up here and there. UNID 9400kHz 18/09 had Abdel Halim Hafez's "Ahwak" being played in its entirety as was done with E25 ad nauseam a while back.

As to who is behind E25? This month's "conspiracy theory" is the "Muslim Brotherhood". "Egyptian authorities have detained senior Muslim Brotherhood leader Essam El-Erian" as of the other day. This might lead to a decrease in already sporadic XMSN. In hindsight, during Mubarak's "ouster" and Mursi's take over for Egypt there was a significant amount of traffic with a gradual decline until he was "arrested" and the Brotherhood was reigned in. This would also account for the XMSNS not necessarily originating in Egypt itself but in a location that is sympathetic to the MB. Then again this could just be fitting the facts to the circumstances.

G06 As expected

S06/S06c/S06s

The usual exposure of this Russian station with a decrease in received logs. Unexpected S06s intercept by RNGB, details in logs.

S21 As expected with the usual signal quality.

V02a Very much now on the decline with no reports this time.

V07 Excellent logs from Daniel in Argentina; excellent coverage indeed and thanks.

V21 Some surprise logs and analysis in the log section

Polytones

The Polytones have continued much as expected. Whilst we have not had any direct or proven activity we appear to be gaining an understanding of XPA2 p and the schedule it follows. More to be seen in forthcoming Newsletters.

My sincere and most necessary word of thanks to the members who supported my monitoring of the Polytone schedules when events in my private life meant I was unable to monitor quite as I would like Thanks!

Regarding all other logs sent in, used and unused, many thanks to all our active contributing members.

Report from ENIGMA2000's German Branch (E2Kde) and the X06 team

Many interesting events! - Report from ENIGMA2000's German Branch (E2Kde) and the X06 team

Hallo liebe Freunde und Kollegen von E2Kde und dem X06 Team (Hello dear friends and colleagues of E2Kde and the X06 team)

Many things happened, especially in September, in the German scene. We already reported about most of them in last EN. But first here is something from last august:

Numbers in German radio

On August 12th, the public "Southwest German Radio" (SWR, 2nd programme) brought a feature in its series "Tandem" about Joaquin Cofreres, a "Sound freak" from the island of Fireland in the South of Argentina, who is a noise collector for 27 years. Within a burst of shortwave noises, you could hear 2 numbers stations: G03 "Gong" (chimes) and V01 "Skylark" (numbers), both from the Conet Project. Although the recordings are not coming from Mr. Cofreres, it can of course be possible, that he heard these stations. We think about Daniel (Lu5EMM) in Argentina, who is also able to hear numbers stations from Europe, which he busily logs to our group. Anyway, thanks to Christian Spremberg for the info about this TX.

Numbers track released

In last EN we reported about a request on numbers stations for music pieces. One of them, called "Secret Agent Message", is now released. It contains excerpts from G08 (or G06), created with speech generator, and some very special sounding of "Achtung", "Start", "Trennung" (shouted by one member of the band). The link to the MP3:

<http://ubuntuone.com/3bWMb3khJvvoQs1E503Qbo>

DX camp in Wetzlar

As introduced in last EN, I held my referat about the numbers stations on the Wetzlar camp on September 14th. We were around 10 "campers", and some of them were fascinated by numbers before. Also I mentioned E2K/de and brought a lot of original recordings (historical and actual ones), most of them from my collection. In our camp house, we could also enjoy the good reception conditions. One day later we were live on an internet radio station with the camp - www.slangradio.de -, where I am active in a German transmission called "Frequenzfieber". This is NOT a DX programme, but an information and entertainment programme for blind and visually impaired people in and around Marburg and in the whole web. A few weeks after the whole event, one of the "campers" wrote a report to the German DX programme of the South Korean public station KBS. There he told the listeners about the events of the camp, especially the numbers referat and the "Frequenzfieber" transmission. All in all, it was a nice atmosphere in Wetzlar, and eventually I will visit the next camp too.

Berlin Radio Play Festival: One tone wins public price! – High quality microphone for "Buzzer"

On September 28th, I was at this festival with Annette Scheld, the author of the "Buzzer" piece. It was presented live there as the 3rd of 9 productions within the competition for the "short burning mike". After the piece, we were interviewed by the moderator of the show. After listening to all the 9 productions, the public chose one winner – "Buzzer"! So we got the high quality original-head mike as price for our radio play. Unfortunately, I couldn't check it out yet, cause it belongs to Annette as the author of the piece, who took it with her to Hamburg, where she's living. Anyway, it was a great event to be with her in Berlin, and I think, this was one reason more, that we won the public price.

Report about numbers stations in the "Hessischer Rundfunk"

On October 29th it was 90 years ago, since the first German radio station started in Berlin. This jubileum was the reason for the "Hessischer Rundfunk" (Hessian Radio) – especially in the 2nd programme - and other public stations to bring stuff about 90 years of radio. Students of the Goethe University in Frankfurt/Main asked publishers and book authors about their stories with the medium. One of them, Mr. Clemens J. Setz, reported about his reception discoveries, and his text had the English title "Number stations". These stations were mysterious for him, he feared them. Later he researched about this subject, so that he could say, that he heard for example G02, G03 or E03. He didn't search the stations systematically, only on one evening he tried to catch one with a friend – successfully. - Many thanks to Karl-HeinzE2Kde for informing the E2Kde platform about this transmission in Hessian Radio.

5th official E2Kde numbers meeting in Dortmund, 16.11.2013

This time, ElmarE2Kde will organize it. So we will be most probably at his home with our next E2Kde meeting (or convention). As last year in Marburg, we will try to find numbers stations and will exchange about the subject in general. Also we'll open Skype for all, who can't take part in the E2Kde meeting in Dortmund. So you are invited to join us via my Skype account "NumbersKopf".

TV tip: "Deckname Luna" will be repeated

In EN74 we payed your attention to the film "Deckname Luna" (Code name Luna), which came last year in Germany's 2nd public TV programme ZDF. It will be repeated on "History", a sub-channel of ZDF, on November 29th at 2050 UTC (2150 LCL) and one day later at the same time. This agents' film brings original excerpts from G08 in some scenes. For details about the contents please look at EN74 "German Branch report". We recommend all who are able to understand German to watch the film. Thanks to OM Karl-HeinzE2Kde for the information about the repeat.

As usual at the end of the report, here comes the X06 section:

X06 Mazielka (1C) logs section

Date	Day	UTC	Freq	Scale	Monitor	Comments
20130903	Tue	0830-0838	15687	154263	KopfE2Kde	Fair, G
20130905	Thu	1050	19511	314265	MCO/US	R
20130910	Tue	1100-1116	14675	612534	RNGB	Monitored in progress, M734
20130911	Wed	0001-0012	9106	215346	Peter	Fair/good, R
20130911	Wed	0029-0046	7560	215346	Peter	Poor, R
20130911	Wed	0108-0117	9106	215346	Peter	Fair/good, R
20130911	Wed	0906-0913	16116	134265	Peter	Fair, M735
20130913	Fri	0746-0754	10653	356412	Peter	Alert 2.1 Good, M736
20130913	Fri	0755-0758	9288	356413	Peter	2.2 S1, M737
20130913	Fri	1439-1443	16115	215346	Peter	Alert 2.1 Fair, G
20130913	Fri	1440-1448	14650	215346	Peter	2.2 Strong, G
20130913	Fri	1443-1448	14970	216354	Peter	Good with some fading
20130916	Mon	1535-1538	14392	532614	Peter	Very good, M739
20130917	Tue	0821-0825	11462	165423	Peter	Good, M740
20130917	Tue	0822-0827	15687	154263	Peter	Fair/good, M741
20130917	Tue	0827-0829	16115	215346	Peter	Alert 2 (both weak) 1 G
20130917	Tue	0832	14650	215346	Peter	2.2 Shortie, M742
20130917	Tue	0912-0916	18206	246531	Peter	Very good, M743
20130918	Wed	0843-0845	14631	362154	Peter	Weak, M744
20130918	Wed	1613-1617	11125	216354	Peter	Good, G
20130920	Fri	0629	16320	241563	Peter	Fair shortie, M745
20130920	Fri	0958-1001	14501	361245	Peter	Good, M746
20130923	Mon	0759-0802	13423	421635	Peter	Good, M747
20130923	Mon	0812-0818	14871	156234	Peter	Alert 2.1 Good, M748
20130923	Mon	0828	20960	156234	Peter	2.2 Good shortie, G
20130923	Mon	0929-0933	13517	463125	Peter	Good, M749
20131004	Fri	1017-1020	12215	361245	Peter	M750
20131004	Fri	2001-2007	8105	314265	RNGB	I. p., G
20131004	Fri	2001-2012	7560	215346	RNGB	I. p., G
20131013	Sun	1155-1158	16060	261453	tiNG	S9, M751
20131014	Mon	0924-0948	12300	1--6--	tiNG	X06b
20131014	Mon	0945-0950	13517	463125	tiNG	S9, M752
20131015	Tue	1605-1610	13961	216354	tiNG	Strong, R
20131024	Wed	0905-0907	16116	134265	RNGB	I. p., M753
20131025	Fri	1000-1007	17463	256134	tiNG	Strong, i. p., M754

As usual, interesting stuff. Many thanks to all the X06 contributors.

Till the next time I say "Auf Wiedersehen" and "Good-bye"

Jochen Schäfer, KopfE2Kde and X06 Teamkopf

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.

UNID CW

This one from Jean-Paul (JPL) - Possibly an M01 variant (M01c?)

4204	1527 (IP) - 1528z	23 Sep	(In progress)	Using short zero	(Remote tuner Finland)	JPL	MON
....	18131 41359 45946 43044 05123 53839 03052 220.4 BT	39114 000 (1528z - Silent) (No pause between 391 & 14)					
9145	(Various times) usually late evening in UK. We had several reports of this station sending Morse sequences in September & early October. Further monitoring & reports showed this to be Russian Navy, using the call RIW, which is listed as CIS, Moscow. Thanks to all who reported & helped to monitor & identify this station. The Op. was very proficient on the key, with some very impressive fast speeds in use.						

M01/2 XIV MCW, hand (463 sched for Sep - Oct). Will change to M01/1 sched ID 197 for Nov - Feb.

September 2013:

5020	2000z	03Sep	'463' 177 30 =	18821??...	...LG 46315 =	Weak / fair Irregular. Several errors noted	CB	TUE
	2000z	05 Sep	'463' 001 30 =	30465...	...LG 31457 =	Good, med-fast. Erratic, staccato CW	BR	THU
	2000z	10 Sep	'463' 265 30 =	50525...	...LG 41202 =	Fair. Multiple errors noted	CB	TUE
	2000z	12 Sep	'463' 277 30	10634...	...LG 93313 =	Good, med-fast. Irregular with multiple errors	BR/CB/HFD	THU
	2000z	17 Sep	'463' 836 30 =	07391...	...LG 82675 =	Ends 2010z QSA4 QRM5 QRN4 QSB3	CB/tiNG	TUE
	2000z	19 Sep	'463' 741 30	80711...	...LG 44051	Fair, med-fast. One noted error.	BR/CB	THU
	2000z	24 Sep	'463' 188 30	89997...	...LG 52725	Weak, med-fast. Poor copy, Errors noted	BR	TUE
	2002z	26 Sep	'463' 046 30 =	.....	...LG 05874 =	Weak, V.fast. Poor copy. Details via Twente	BR	THU
5475	1800z	03 Sep	'463' 523 30 =	10715...	...LG 67730 =	Fair, slow. DK & GC sent once only.	BR	TUE
	1800z	05 Sep	'463' [307 30]	12601...	...LG 89768	Fair, med-fast. No preamble. Irregular	BR	THU
	1800z	10 Sep	'463' 673 30	56560??...	...LG 87269	V.weak, Poor copy with heavy QRM	CB	TUE
	1800z	12 Sep	'463' 138 30	89537...	...LG 52413	Good, Slow. = = missing from start & EOM	BR/CB/HFD	THU
	1800z	17 Sep	'463'	Very poor -	No useful copy		CB	TUE
	1800z	19 Sep	'463' 312 30	8471 . ...	...LG 89448	Fair, moderate noise. Good copy	CB	THU
	1800z	24 Sep	'463' 256 30	83605...	...LG 83180	Strong, Med-fast. Several errors noted.	BR/CB	TUE
	1800z	26 Sep	'463'	Very poor -	No useful copy		CB	THU
6260	1500z	07 Sep		Very poor -	No useful copy		BR	SAT
	1500z	14 Sep	'463' 391 30 =	58443...	...LG 82266 =	Weak, Extremely fast key setting. Irregular	BR/HFD	SAT
	1500z	21 Sep	'463' 409 30 =	96469...	...LG 15833 =	Weak, fast. Excellent CW after poor start	BR	SAT
	1500z	28 Sep	'463' 393 30	86423...	...LG 990 .5	Weak, V.fast. Poor copy with noted errors	BR	SAT
6510	0700z	01 Sep	'463' 326 30	34175...	...LG 44742	Good, med-fast. Several errors. Irregular	BR	SUN
	0700z	08 Sep	'463' 724 30 =	95368...	...LG 95368	V.weak, med-fast. Difficult copy	BR	SUN
	0700z	15 Sep	'463' 803 30 =	17136...	...LG 23345 =	Good, med-fast. Irregular, with errors	BR/CB/JkC	SUN
	0700z	22 Sep	'463' 760 30 =	60121...	...LG 46894 =	Strong, fast. Excellent CW.	BR	SUN
	0700z	29 Sep	'463' 256 30	57816...	...LG 02753 =	Good, V.fast. Excellent CW. No errors	BR	SUN

October 2013:

5020	2000z	01 Oct	'463' 208 30	.....	...LG 78353	V.weak. Fast. V.poor copy. Details via Twente	BR	TUE
	2000z	03 Oct	'463' 719 30	32174...	...LG 20769	Fair, med-fast. Irregular with errors	BR	THU
	2000z	08 Oct	'463' 319 30 =	31189...	...LG 39109 =	Fair, med-fast. Very Irregular with errors	BR/tiNG	TUE
	2000z	10 Oct	'463' 337 30	42402...	...LG 02119	Strong, fast. Good CW with errors	BR	THU
	2000z	15 Oct	'463' 373 30 =	24716...	...LG 20842 =	Fair, med-fast. With errors	CB	TUE
	2000z	17 Oct	'463' 098 30	51110...	...LG 21199	Fair/good. med-fast. = = missing o/w no errors	BR	THU
	2000z	22 Oct	'463' 374 30	97525...	...LG 20759	Strong, fast. Several noted errors	BR/CB	TUE
	2003z	24 Oct	'463' 239 30	67169...	...LG 95948	Good, fast. Late start. Errors in grps13 & 14	BR	THU
	2000z	29 Oct	'463' 300 30	.....	...LG 59833	Good, med-fast. Excellent CW with no errors	BR	TUE
5475	1800z	01 Oct	'463' 019 30	65773...	...LG 12104	Fair, fast. Several noted errors.	BR/CB	TUE
	1800z	03 Oct	'463' 513 30	07727...	...LG 75786	Strong, med-fast. Irregular with errors	BR/CB	THU
	1800z	08 Oct	'463' 186 30	72117...	...LG 91408	Fair, med-fast. Irregular	BR	TUE
	1800z	10 Oct	'463' 278 30 =	49248...	...LG 60216 =	Good, fast. Excellent CW with errors	BR/CB	THU
	1800z	15 Oct		NRH			BR/CB	TUE
	1800z	17 Oct	'463' 700 30	39863...	...LG 53339	Good, slow to med-fast. With errors	BR	THU
	1800z	22 Oct	'463' 289 30 =	81059...	...LG 69456 =	Strong, med-fast. Several noted errors	BR/CB	TUE
	1800z	29 Oct		NRH			BR	TUE
6260	1500z	05 Oct	'463' 912 30 =	90373...	...LG 12314 =	Fair, fast. Good steady sending.	BR	SAT
	1500z	12 Oct	'463' 221 30 =	77173...	...LG 03171 =	Strong, fast. Good CW with errors	BR	SAT
	1500z	19 Oct		NRH			BR	SAT
	1500z	26 Oct	'463' 225 30 =	95077...	...LG 77454 =	Fair, V.fast. Errors in grps16 - 17	BR	SAT
6510	0704z	06 Oct	'463' 237 30 =	14176...	...LG 01557 =	Weak, med-fast. Good sending. Error grp30	BR/HFD/RNGB	SUN
	0700z	13 Oct	'463' 518 30 =	24273...	...LG 83986 =	Good, fast. Grp09 28363 328363	BR	SUN
	0700z	20 Oct	'463' 536 30	47118...	...LG 86255	Strong, fast. Good CW with errors	BR	SUN
	0700z	27 Oct	'463' 178 30 =	29115...	...LG 74276 =	Strong, V.fast. Error in grp13. Excellent CW	BR	SUN

M01a (formerly end of month TXs, now random)

No reports

M01b

September 2013

3510//4605	1832z	12 Sep	'201' 900 30 =	64350...	3510 weak//4605 strong	HFD	THU
3520//4585	2010z	13 Sep	'582' 900 30 =	64350...		HFD	FRI
	2010 - 2026z	27 Sep	Fair, readable Ham QRM//	[See transcript below]		tiNG	FRI
3625	1903z	27 Sep	'153'	Too bad to copy, loud QRM by HAMs		tiNG	FRI
3644//4454	1915z	23 Sep	'771' 900 30 =	64350...		HFD	MON
3715//4570	1942z	12 Sep	'477' 900 30 =	64350...		HFD	THU
4570	1942z	05 Sep	'477' 900 30 =			GD	THU

4590	1810z	09 Sep	'420' 900 30 == 64350... Strong	HFD	MON
4941	1902z	13 Sep	'153' 900 30 == 64350.... (not 3625//4440!)	HFD	FRI
5810	1515z	13 Sep	'158' 194 30 == 41275...	HFD	FRI
5940	1505 - 1520z	05 Sep	'159' 194 30 == 42275 ... 71087 == Fair	JkC	THU
	1505 - 1520z	11 Sep	'159' 194 30 == 42275 ... 71087 == Fair	JkC	THU

October 2013

4608	1837 (IP) - 1843z	03 Oct	900 30 (In tfc)	(Remote tuner Finland)	JPL	THU
5938	1505z	03 Oct	'159' 194/30 == 42275	MCW	HFD	THU

M01b 5940kHz 1505z 05 Sept13					
159 (R4)	194	194	30	30	= =
42275	51828	87454	01713	93905	
02853	01086	80089	42728	61452	
14329	06514	15535	99209	61582	
58297	81651	79299	41100	93126	
49171	05512	64435	50706	89617	
31677	97741	47700	77233	71087	
= = 194 194 30 30 000					
Courtesy JkC					

M01b 4585kHz 2010z 27 Sept13					
582 (R4)	900	900	30	30	= =
64350	58217	69661	11414	04957	
70872	22380	28569	42637	13023	
98314	83069	78429	21144	61295	
79816	20818	89087	37422	34251	
29751	10872	94988	89340	44520	
92497	74522	22773	29368	92561	
= = 900 900 30 30 000					
Courtesy tiNG					

M01c

6978	1642z (IP)	30 Sep	378 (In call up)	(Remote tuner Russia)	JPL	MON
(In progress – 1642z – Hand sent)						
738 732 88 732 88						
738 738 738 732 88 111 (1643z)						
04001 (1643z)						
738 738 738 333 12 (1645z)						
333 12 (1646z)						
33 12 (1646z)						
05002 333 730 79 730 79 (1647z)						
333 730 79 730 79 (1648z)						
333 730 79 111 (1649z)						
333 26 (1650z)						
333 26 (1651z)						
333 26 (1651z)						
333 26 (1651z)						
111 000 (1652z - Silent)						

M03 III ICW, some CW

6977	1535z	10 Sep	798/00	RNGB	TUE
	1535z	24 Sep	790/31 = = 07249 93317 37327 43888...etc	RNGB	TUE
	1535 - 1538z	01 Oct	798/00 = =	tiNG	TUE
9150	1115z	03 Sep	276/34 = = 04516 57512 etc.	RNGB	TUE
	1115 - 1118z	04 Sep	650/00 = = Fair QRN2 QSB2	Spectre	WED
	1115z	17 Oct	650/00 ddi	HFD	THU
	1320 - 1323z	11 Sep	437/00 = = 000 Strong	JkC	THU
13911	1420z	01 Sep	879/00	RNGB	SUN
	1420z	15 Sep	879/00	RNGB	SUN

M03c (Stutter groups)	M03d	M03e
No reports	No reports	No reports

M08a XVIII ICW / CW, some MCW

This report from AnonUS doing a splendid job in tracking down the remaining scheds from this station.

M08a caused some worry over the past two months with all transmissions disappearing for two weeks at the beginning of September and the 2000z transmissions on 7554kHz only being heard one time in 6 weeks. Then on October 12th (a Saturday) an apparent test transmission was heard on that frequency followed by a proper M08a transmission 3 days later. Transmissions on all 3 known schedules have been sporadic but for now at least they seem to still be with us.

The following have been logged over the past two months.

September 2013:

7554	2000z 2300z	19 Sep 23 Sep	Already into messages on the hour In progress at 2303z	AnonUS AnonUS	THU MON
8009	2300z 2300z	03 Sep 30 Sep	Already into messages on the hour [----- 06421]	AnonUS AnonUS	TUE MON
8096	1400z 1400z	27 Sep 30 Sep	[-----] Morse barely audible and the Morse machine seems to be having problems. In progress at 1400. Missed call-ups	AnonUS AnonUS	FRI MON
8097	1400z 1400z 1400z	03 Sep 04 Sep 19 Sep	Already into messages on the hour Already into messages on the hour Up briefly with 4877 2268 heard up a minute later very weak for a few seconds	AnonUS AnonUS AnonUS	TUE WED THU
8135	2300z	24 Sep	[----- 64181]	AnonUS	TUE

October 2013:

7554	2000z 2000z 2000z	12 Oct 15 Oct 17 Oct	[12345 67890] Repeated continuously at one point 67890 67890 then back to 12345 67890 rptd. [65721 38162 52401] [86381 00722 12141]	AnonUS AnonUS AnonUS	SAT TUE THU
8009	2300z	14 Oct	[----- 86622] Came up late, only the last call-up was heard.	AnonUS	MON
8096	1400z 1400z 1400z 1400z 1400z 1400z 1400z 1400z	01 Oct 02 Oct 04 Oct 10 Oct 11 Oct 14 Oct 15 Oct 25 Oct	In progress at 1400. Missed call-ups In progress at 1400. Missed call-ups [41611 54132 67462] Actual start time 1358z [87771 01102 14431] Came up already in progress [63852 76372 80611] [37151 58781 62112] [47131 147?1 24701] TX cutting out repeatedly. Order of call-ups unknown.	AnonUS AnonUS AnonUS AnonUS AnonUS AnonUS AnonUS AnonUS	TUE WED FRI THU FRI MON TUE FRI
8135	2300z 2300z 2300z	01 Oct 11 Oct 15 Oct	[---22 12511 25842] Unable to copy due to a recording problem Up late, appeared to be having technical difficulties.	AnonUS AnonUS AnonUS	TUE FRI TUE

M08c	M08d
No reports	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.

Fritz (FN) sent us an impressive list of logs obtained while he was on holiday using an old SONY SW-55 and a few meters of antenna wire. Strong local noise was removed using a simple, homebrew QRM Eliminator (by DK9NL) and a primitive passive pre-selector. Fritz reports that this set-up is OK for strong stations like M12.

Better than OK Fritz, we think, & shows what can be achieved using a fairly simple set-up. All of FNs logs below between Sept 09 - 18 inclusive were logged using this equipment.

September 2013:

5792/6992/---	0430/0450/0510z 0430/0450/0510z	02 Sep 16 Sep	769 000 796 000		FN HFD	MON MON
6784/7684/---	0630/0650/0710z 0630/0650/0710z 0630/0650/0710z	05 Sep 19 Sep 26 Sep	761 000 761 000 761 000	Weak signal, QRM from digital station on 6784kHz	HFD FN FN	THU THU THU
6793/5893/---	2100/20/40z 2100/20/40z	04 Sep 25 Sep	785 000 785 000		HFD FN	WED WED
8047/6802/5788	1700/20/40z 1700z 1700/20/40z 1700/20/40z 1700/20/40z	04 Sep 11 Sep 11 Sep 18 Sep 25 Sep	463 1 (3467 99) 26308... 463 463 1 (1091 90) 90202... 463 1 (3926 94) 31277... 463 1 (7475 94) 67780...	...69001 (Remote Tuner Russia)	FN/JkC JPL FN FN FN	WED WED WED WED WED
9176/7931/6904	1700/20/40z 1800/20/40z 1900/20/40z 1700/20/40z 1800/20/40z	02 Sep 02 Sep 02 Sep 09 Sep 09 Sep	257 1 (1827 79) 84789... 257 1 (4518 61) 53504... 257 1 (5178 118) 15333... 257 1 (8009 80) 32323... 257 1 (7316 61) 65823	QRM from Digital station on 6904kHz QRM from Digital station on 6904kHz QRM from Digital station on 6904kHz QRM from Digital station on 6904kHz QRM from Digital station on 6904kHz	FN FN FN FN FN	MON MON MON MON MON

9176/7931/6904 continued	1900/20/40z	09 Sep	257 1 (2468 120)	61705...	FN	MON
	1900/20/40z	11 Sep	257 1 (4913 65)	75066... 77705 Strong	JkC	THU
	1700/20/40z	16 Sep	257 1 (5344 79)	11158... QRM from Digital station on 6904kHz	FN	MON
	1800/20/40z	16 Sep	257 1 (7420 68)	26456... QRM from Digital station on 6904kHz	FN	MON
	1700/20/40z	19 Sep	257 1 (3453 96)	58046... QRM from Digital station on 6904kHz	FN	THU
	1900/20/40z	19 Sep	257 1 (6975 65)	74644...	FN	THU
	1700/20/40z	26 Sep	257 1 (7819 100)	06137...	FN	THU
	1900/20/40z	26 Sep	257 1 (5880 69)	62329...	FN	THU
10343/9264/8116	1830/1850/1910z	03 Sep	124 1 (1493 68)	46198...	FN/HFD	TUE
	1700/20/40z	05 Sep	124 1		HFD	THU
	1800/20/40z	05 Sep	124 1		HFD	THU
	1830/1850/1910z	10 Sep	124 1 (1200 51)	99118...	FN	TUE
	1830/1850/1910z	17 Sep	124 1 (1295 67)	86248...	FN	TUE
	1700/20/40z	19 Sep	124 1 (3211 74)	88538...	FN	THU
	1800/20/40z	19 Sep	124 1 (1121 114)	16426... QRM from digital station on 9264kHz	FN	THU
	1830/1850/1910z	24 Sep	124 1 (8262 68)	92640...	FN	TUE
	1700/20/40z	26 Sep	124 1 (7521 72)	09248...	FN	THU
	1800/20/40z	26 Sep	124 1 (5786 120)	29853...	FN	THU
11435/10598/9327	1600/20/40z	02 Sep	938 1 (5216 117)	72852...	FN	MON
	1830/1850/1910z	04 Sep	938 1 (7259 64)	98559... ..91614	FN/JkC	WED
	1600/20/40z	09 Sep	938 1 (1554 100)	83460...	FN/HFD	MON
	1830/1850/1910z	11 Sep	938 1 (3295 64)	85480...	FN	WED
	1600/20/40z	16 Sep	938 1 (3022 118)	37186...	FN	MON
	1830/1850/1910z	18 Sep	938 1 (6245 65)	06201...	FN/HFD	WED
	1830/1850/1910z	25 Sep	938 1 (7511 69)	00136...	FN	WED
	1600z	30 Sep	938 1 (737 57)	10514... Strong Signal via Web SDR Twente	ElmarE2K	MON
11469/10469/9169	2110/2130/2150z	04 Sep	441 000		HFD	WED
	2130/2150z	25 Sep	441 1 (8136 119)	12019...	FN	WED
13386	1600z	12 Sep	725 1 (7265 108)	88240 78793.....03612	RNGB	THU
13386/12189/11491	1600/20/40z	19 Sep	725 1 (4193 111)	19469...	FN	THU
	1600/20/40z	26 Sep	725 1 (7245 115)	61500...	FN	THU
13524/11524/10334	1500/20/40z	04 Sep	344 1 (8622 173)	26344... ..52512 Repeat of 02 Sep 1300z	FN/JkC	WED
	1500/20/40z	11 Sep	344 000		FN	WED
	1500/20/40z	15 Sep	344 000		JkC	WED
	1500/20/40z	18 Sep	344 1 (9417 217)	61205... Repeat of 16 Sep 1300z	FN	WED
	1500/20/40z	25 Sep	344 1 (834 157)	76989... Repeat of 23 Sep 1300z	FN	WED
13873/13373/---	1310/1330/1350z	05 Sep	834 000		HFD	THU
	1310/30/50z	11 Sep	834 000 Strong		JkC	THU
	1310/30/50z	14 Sep	834 000		HFD	SAT
	1310/30/50z	26 Sep	834 000		FN	THU
14372/13472/11472	1300/20/40z	02 Sep	344 1 (8622 173)	26344...	FN	MON
	1300/20/40z	09 Sep	344 000		FN	MON
	1300/20/40z	16 Sep	344 1 (9417 217)	61205...	FN/HFD	MON
	1300z	30 Sep	344 1 (143 075)	11203... Strong Signal via Web SDR Twente	ElmarE2K	MON

M12 11435kHz/10598kHz/9327kHz 1830z/1850z/1910z 04 Sep13

938 1(R2) 7259 64 7259 64

98559 13733 39386 63906 15195 66365 32076 02348 27210 22421
72507 08123 84577 29428 95943 68453 90523 70717 47942 74969
73485 26768 27199 64295 95589 22637 46975 80762 96050 54550
66942 56661 04756 35913 44712 27012 07266 16568 30000 78852
05841 07759 96589 41325 14469 02538 12053 94068 44404 55464
49884 72582 10754 29245 13564 06437 04185 72123 96142 52735
88858 14422 04050 91614 000 000

Courtesy JkC

October 2013:

5814/5214/4614	2100/20/40z	02 Oct	826 1 (687 79)	31617...	FN/HFD	WED
	2100/20/40z	09 Oct	826 000		FN	WED
	2100/20/40z	16 Oct	826 000		FN	WED
	2100/20/40z	23 Oct	826 1 (2462 89)	39155...	FN	WED
6784/7684/---	0630/0650/0710z	03 Oct	761 000		FN	THU
	0630/0650/0710z	10 Oct	761 000		FN	THU
	0630/0650/0710z	17 Oct	761 000		FN	THU
	0630/0650/0710z	24 Oct	761 000	Strong digital signal on 6784kHz	FN	THU
8047/6802/5788	1700/20/40z	02 Oct	463 1 (5813 97)	52333...	FN/HFD	WED
	1700/20/40z	09 Oct	463 1 (1303 99)	18680...	FN	WED
	1700/20/40z	16 Oct	463 1 (7967 93)	02362...	FN	WED
	1700/20/40z	23 Oct	463 1 (7561 92)	03365...	FN	WED

9176/7931/6904	1700/20/40z	03 Oct	257 1 (1679 95)	66646...		FN/HFD	THU
	1900/20/40z	03 Oct	257 1 (3012 69)	12058...		FN/HFD	THU
	1700/20/40z	07 Oct	257 1 (8817 75)	85363...		FN	MON
	1800/20/40z	07 Oct	257 1 (1499 66)	90515...		FN	MON
	1900/20/40z	07 Oct	2571 (6257 116)	57234...		FN	MON
	1700/20/40z	10 Oct	257 1 (2782 97)	20158...		FN	THU
	1900/20/40z	10 Oct	257 1 (3855 68)	93308..	QRM OTHR on 9223kHz	FN	THU
	1700/20/40z	14 Oct	257 1 (4892 7)1	92657...		FN	MON
	1800/20/40z	14 Oct	257 1 (3379 61)	64167...		FN	MON
	1900/20/40z	14 Oct	257 1 (7332 117)	76605...		FN	MON
	1700/20/40z	17 Oct	257 1 (7661 95)	08144...		FN	THU
	1700/20/40z	24 Oct	257 1 (4366 98)	84894...		FN	THU
	1900/20/40z	24 Oct	257 1 (6213 68)	92379...	QRM OTHR on 9176kHz	FN	THU
9223/8193/7463	1500/20/40z	02 Oct	839 1 (4075 143)	71203...		FN /HFD	WED
	1500/20/40z	09 Oct	839 1 (1150 191)	07580...	Repeat of 07 Oct 1300z	FN	WED
	1500/20/40z	16 Oct	839 000			FN	WED
	1500/20/40z	23 Oct	839 1 (1321 241)	71295...		FN	WED
10269/9269/7969	2110/30/50z	02 Oct	229 1 (1306 107)		Very weak signal	FN	WED
	2110/30/50z	09 Oct	229 000		Very weak signal	FN/HFD	WED
	2110/30/50z	12 Oct	229 000			FN	SAT
	2110/30/50z	16 Oct	229 1 ...		Signal too weak	FN	WED
	2110/30/50z	23 Oct	229 1 (3455 89)	03943...		FN	WED
	7970	23 Oct	V. fast CW - Just time to tune, when ended 000 000 (Remote tuner Russia)			JPL	WED
	2110/30/50z	26 Oct	229 1 (3455 89)	03943...	Repeat of 23 Oct 2110z	FN	SAT
10343/9264/8116	1830/1850/1910z	01 Oct	124 1 (2213 62)	77840...		FN	TUE
	1700/20/40z	03 Oct	124 1 (8197 76)	61907...		FN	THU
	1800/20/40z	03 Oct	124 1 (7534 110)	71485...		FN	THU
	8116	1910z	08 Oct	124 1 (8454 65)	96802 ... 54516 Strong, QSB2 (6m09s)	PLdn	TUE
	1700/20/40z	10 Oct	124 1 (2940 78)	24348..		FN	THU
	1800/20/40z	10 Oct	124 1 (2450 118)	52791..		FN	THU
	1830/1850/1910z	15 Oct	124 1 (1131 64)	15377...		FN	TUE
	1700/20/40z	17 Oct	124 1 (3552 74)	11196...		FN	THU
	1800/20/40z	17 Oct	124 1 (8457 118)	33295...		FN	THU
	1700/20/40z	24 Oct	124 1 (7730 80)	28242...		FN	THU
	1800/20/40z	24 Oct	124 1 (3170 119)	72953...		FN	THU
	1830/1850/1910z	29 Oct	124 1 (2548 57)	21684...		FN	TUE
10804/9324/7964	1300/20/40z	07 Oct	839 1 (1150 191)	07580...		FN	MON
	1300/20/40z	14 Oct	839 1 (3027 165)	50356...		FN/JPL	MON
11435/10598/9327	1830/1850/1910z	02 Oct	938 1 (3195 63)	62406...		FN	WED
	1600/20/40z	07 Oct	938 1 (2746 118)	37373...		FN	MON
	1830/1850/1910z	09 Oct	938 1 (5380 69)	73943...		FN	WED
	1600/20/40z	14 Oct	938 1 (8780 116)	59281...		FN	MON
	1830/1850/1910z	16 Oct	938 1 (6907 63)	28921...	Weak signal, target not in W.Europe ?	FN	WED
	1830/1850/1910z	23 Oct	938 1 (7135 67)	31514...		FN	WED
12214/10814/9214	1310/30/50z	03 Oct	282 000			FN/HFD	THU
	1310/30/50z	05 Oct	282 000			FN	SAT
	1310/30/50z	10 Oct	282 1 (4690 161)	51529	Weak signal on 12214kHz & 10814kHz	FN	WED
	1310/30/50z	12 Oct	282 1 (4690 161)	51529...	Repeat of 10 Oct 1310z	FN	SAT
	1310/30/50z	17 Oct	282 000			FN	THU
	1310/30/50z	24 Oct	282 000			FN	THU
	1310/30/50z	26 Oct	282 000			FN	SAT
13386/12189/11491	1600/20/40z	03 Oct	725 1 (3876 117)	94728...		FN	THU
	1600/20/40z	10 Oct	725 1 (4547 113)	79236...		FN	THU
	1600/20/40z	17 Oct	725 1 (8629 114)	79622...		FN	THU
	1600/20/40z	24 Oct	725 1 (8541 114)	09674...		FN	THU

M12a (two message variant)
No reports

M14 IA MCW / ICW / MCWCC, short 0

September 2013:

5463	1921z	11 Sep	??? [814 30]	There was no call up, straight into message at 1921z <i>Technical or operator error, possibly?</i>	GD	WED
5464	1920z	25 Sep	537 (814 15) ==	77281, dig. QRM	HFD	WED
5947 / 5948	1820 - 1826z	10 Sep	346 (721 15) ==	[see transcript below]	HFD/RNGB/ tiNG	TUE
7395	0800z	10 Sep	362 00000		HFD	TUR
8120	0700z	10 Sep	362 00000		HFD/RNGB	TUE

8193	1800 - 1803z	06 Sep	269 00000	PoSW/RNGB	FRI
9125	1700 - 1703z	06 Sep	269 00000	PoSW/RNGB	FRI

PoSW observed; *Carrier stayed on and at 1704 UTC sent numbers, "0 1 2 3 4" and "7" many times until 1706 when carrier went QRT.*

10424	1705 (IP) - 1713z	11 Sep	(534 98) In progress. 02471 76302 (Cont'd) (Remote Tuner Russia)	JPL	WED
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October 2013:

5463	1920z	23 Oct	537 (211 15) == 93027... .. 92011 ==	GD	WED
5947	1820 - 1827z	08 Oct	346 (828 15) == [see transcript below]	tiNG	TUE
9073	0932z	21 Oct	975 (4 . . 92) == 60006 31163... very weak, faded out.	Jan	MON
14721	1100 - 1121z	14 Oct	262 (480 137) == 62616... .. 57895 (47895)? ==	Jan/JPL	MON

M14 5948kHz 1820z 10 Sep 13 346 (R3) 721 721 15 15 == 27182 02831 38391 02341 17289 28341 02341 00986 83741 73412 83123 77423 93821 34657 83912 == 721 721 15 15 00000 <i>Courtesy tiNG</i>

M14 5947kHz 1820z 08 Oct 13 346 (R3) 828 828 15 15 == 03812 93012 84573 00283 93821 19234 03721 85647 74931 89431 03849 83921 64823 57657 93010 == 82 8 828 15 15 00000 <i>Courtesy tiNG</i>
--

M14 5463kHz 1920z 23 Oct 13 537 (R3) 211 211 15 15 == 93027 93775 58874 03812 46381 45372 04792 17294 39265 65731 03823 81293 02312 93413 92011 == 211 211 15 15 00000 <i>Courtesy GD</i>

M14a (two message variant)
No reports

M18 IC Time strings, UTC+4
No reports

M23 O ICW

M23 has been very active over the months of Sept & Oct with a variety of freqs, calls & times. No msgs have been reported. The schedules & changes that occur with M23 make it quite difficult to present a coherent picture of this stations activities.

The table below is an attempt to show the schedules as found during Sept. A,B & C etc. are used purely to show the separate schedules as identified.

For fuller details a listing of the logs is included, showing how the schedules unfolded & were discovered.

M23 has no known recurring schedules or freq sets. Those schedules that do appear seem to be unique, existing only for the duration of that period of activity.

Sched	Call	Freq Set	Early Sched	Late Sched	Duration*
A	444	9218		1830z? (IP)	06 Sept
B	333	8030//10310	0700z	2100z	24 - 29 Sept
	246	8030//10755		1500z 1700z 1900z	11 - 17 Oct 11 - 17 Oct 11 - 17 Oct
C	000	5921	-	1700z	10 Sept
	333	5921	-	1700z	12 Sept
	333	5921//16136	0800z	1700	13 - 27 Sept
D	555	12170	-	1800	13 Sept
	333	10310//11530	-	1900z	15 - 16 Sept
	555	11530//NRH**	0900z	1800z	17 - 21 Sept
	555	11530//12170	0900z	1800z	22 - 30 Sept
	333	11530//12170	1000z	1800z	01 - 02 Oct
	555 222	12170 12170	0800z 0800z	1600z 1600z	06 - 13 Oct 14 - 17 Oct
E	246	4951//5345	1430z		16 - 17 Oct

Scheds are daily.

Times Approx.

* From date of discovery to date ceased

** 12170kHz possibly active from 17 Sept but not found until 22 Sept.

Thanks to all the Morse monitors who have contributed logs for this station - Covering this one has been a mammoth task - All help has been much appreciated!

September 2013

PoSW reported the earliest appearance of M23 on Fri 06 Sep....

9218	1844z (IP)	06 Sep	'444' (R)	In progress. Ceased shortly after being logged	PoSW	FRI
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...who also logged another sched on Tue 10 Sept...

5921	1701 - 1715z	10 Sep	'000' (R15)	(Using long zero)	PoSW	TUE
	1716z (IP)	12 Sep	'333' (R)		PoSW	THU

.... & this one, the first log of this freq in Sept;

12170	1803z (IP)- 1815 +	13 Sep	'555' (R)		PoSW	FRI
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Jim (JkC) reported finding this one in progress on Sun 15 Sep;

5921	0812 (IP) - 0817z	15 Sep	'333' (R5)	In progress. Strong. Ending with a single dash.	JkC	SUN
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This report was followed up by Ary (AB) who reported that an evening sending had been logged on 16136 kHz by MCO two days earlier;

16136	1710z (IP)	13 Sep	'333' (R)		MCO	FRI
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Then both were heard together on Sun 15 Sep. All agree this is a very large freq split. An unusual freq pairing for a // transmission....

5921 // 16136	1658 - 1717z	15 - 16 Sep	'333' (R19)	Strong//V.Weak. Ends with single long dash.	AB/BR/RNGB	SUN
	1701 - 1719z	17 - 19 Sep	'333' (R19)	Fair//V.Weak	BR	
	1701 - 1719z	20 - 27 Sep	'333' (R19)	Daily	BR/CB	
	0758 - 0817z	16 Sep	'333' (R19)	Fair//V.Weak	BR	MON
	0801 - 0819z	19 - 27 Sep	'333' (R18)	Daily	BR/GD	

... & then heard again, but on a different, (& more usual), freq pair by JkC at 1859z - Great work Jim!

10310 // 11530	1859 - 1917z	15 Sep	'333' (R18)	In progress Fair // Fair. Ends with a single dash	JkC	SUN
	1858 - 1917z	16 Sep	'333' (R19)	Fair - RTTY QRM//Fair	BR	MON
(11530 only)	1901 - 1923z	17 Sep	'555' (R22)	Weak (Note change of call)	BR	TUE
(11530 only)	1801 - 1823z	18 - 21 Sep	'555' (R22)	Weak (Note change of time)	BR/CB	
(11530 only)	0901 - 0923z	18 - 22 Sep	'555' (R22)		BR/GD	

11530//12170	1801 - 1823z	22 - 30 Sep	'555' (R22)	Daily	BR/CB/RNGB	
	0901 - 0923z	23 - 30 Sep	'555' (R22)	Daily	BR	

Then on Tue 24 Sept Richard (RNGB) found 10310 active again, this time at 0700z with the '333 call...

10310	0704 (IP) - 0719z	24 Sep	'333' (R15)		RNGB	TUE
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...& Brian (BR) found the evening sched along with the // freq of 8030Hz.

8030//10310	2101 - 2119z	24 Sep	'333' (R18)	Fair//Weak	BR	TUE
	2101 - 2119z	25 - 29 Sep	'333' (R18)	Daily	BR	
	0701 - 0719z	25 -29 Sep	'333' (R18)	Daily	BR	

October 2013

The only remaining sched, on 11530//12170kHz changed on October 01 from a '555' to a '333' call.

11530//12170	1801 - 1812z	01 - Oct	'333' (R11)	Daily	BR/CB	
	1001 - 1012z	02 - Oct	'333' (R11)	Daily	BR	

Not heard on any freq - then rediscovered by Derek (DoK) on 06 Oct...

12170	0800 - 0815z	06 Oct	'555' (R15)	Noisy	DOK	SUN
12170	0800 - 1815z	07 - 13 Oct	'555' (R15)	Daily	DoK	
	1600 - 1615z	07 - 13 Oct	'555' (R15)	Daily	BR	

On Monday 14 Oct. 12170kHz changed call to '222'..

12170	1600 - 1612z	14 Oct	'222' (R12)		BR	MON
	0800 - 0812z	15 Oct -	'222' (R12)	Daily	BR/DoK	
	1600 - 1612z	15 Oct -	'222' (R12)	Daily	BR	

8030kHz rediscovered active by Jean-Paul (JP) at 1500z on Fri 11 October... ...& repeating at 1700 & 1900z.

8030	1506 (IP) - 1515z	11 Oct	'246' (R9)	Good signal	JPL	FRI
	1700 - 1715z	11 Oct	'246' (R15)	Strong	BR	FRI
	1900 - 1915z	11 Oct	'246' (R15)	Strong	BR	FRI

Guy (GD) then found the new // for this sched;

8030//10755	1500 - 1515z	12 Oct	'246' (R15)	Strong	BR/GD	SAT
8030//10755	1500 - 1515z	13 - Oct	'246' (R15)	Daily	BR	
	1700 - 1715z	13 - Oct	'246' (R15)	Daily	BR	
	1900 - 1915z	13 - Oct	'246' (R15)	Daily	BR/PoSW/JkC	

Jim (JkC) found another new freq pair, &with a new sched on Wed 16 Oct...

4951//5345	1435 (IP) - 1445z	16 Oct	'246' (R10)	Strong//Strong Ended with a single dash	JkC	WED
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The remaining scheds were last heard on Thu 17 Oct. No further transmissions were heard from Fri 18 Oct, although the hourly 'dashes' continued to be sent, at least on 8030kHz, right up into the last days of October.

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

10423	1702 - 1713z	11 Sep	901 (534 97) =	Very fast .	PoSW	WED
10755	0900z	21 Oct	975 (413 92) =	60006 31163 83150 etc.	RNGB	MON

M24a (two message variant)

No reports

M45/2 XIV MCW, hand (555 sched for Sept - Oct). Will change to M45/1 sched ID 525for Nov - Feb

4555//4955	1802 - 1821z	03 Sep	'555' 371 33 ==	71532 ... 80526 = 371 33 000	Weak//Fair	HFD/JkC/tiNG	TUE
4555	1802 - 1820z	10 Sep	'555' 371 33 ==	71532 75729 . . . 82939 21287 80526		tiNG	TUE
	1802z	12 Sep	'555' 371 33 ==	71532 75729 37770 78082 etc	(painfully slow)	RNGB	THU
4955	1802z	10 Sep	'555' 371 33 ==			GD	TUE

M45 4955kHz 1802z 03 Sept13

555 (R4) 371 371 33 33 ==

71532 75729 37770 78082 27931
32905 60172 41137 90007 28665
90779 26223 33113 79822 03579
56249 13797 97798 57789 76182
41662 88507 95294 36239 79913
89716 83208 55819 07778 46038
82939 21287 80526 ==

371 371 33 33 000

Courtesy JkC

(Same msg as S21 1842z 03 Sept but with ID 454)

M51 XIX

3748	1812z	11 Oct	Nr60 EATM8 20:34 13 1985	Very strong	PLdn	FRI
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This sequential log sent in by our special friend Spectre - Thanks Spectre, your logs are always most welcome;

5443	2157 - 2203z	03 Sep	NR 07 S03 23:57:32 1985 BT	CTLHF ... BQTL	BT	Fair	QRN2 QSB2	Spectre	TUE
	2203 - 2210z	03 Sep	NR 08 S04 00:03:45 1985 BT	ONFSO ... FQSTP	BT	Fair	QRN2 QSB2	Spectre	TUE
	2210 - 2216z	03 Sep	NR 09 S04 00:10:04 1985 BT	FLHKU ... WZEKZ	BT	Fair	QRN2 QSB2	Spectre	TUE
	2216 - 2222z	03 Sep	NR 10 S04 00:16:16 1985 BT	NTBSG ... GACYR	BT	Fair	QRN2 QSB2	Spectre	TUE
	2222 - 2228z	03 Sep	NR 11 S04 00:22:34 1985 BT	CLIRK ... FICSZ	BT	Fair	QRN2 QSB2	Spectre	TUE
	2228 - 2234z	03 Sep	NR 12 S04 00:28:48 1985 BT	HTELR ... QGVRT	BT	Fair	QRN2 QSB2	Spectre	TUE
	2234 - 2241z	03 Sep	NR 13 S04 00:34:58 1985 BT	GADPU ... EMUZV	BT	Fair	QRN2 QSB2	Spectre	TUE
	2241 - 2247z	03 Sep	NR 14 S04 00:41:02 1985 BT	PPNSO ... KJVSJ	BT	Fair	QRN2 QSB2	Spectre	TUE
	2247 - 2253z	03 Sep	NR 15 S04 00:47:27 1985 BT	TUDJY ... MPRPB	BT	Fair	QRN2 QSB2	Spectre	TUE
	2253 - 2305z	03 Sep	NR 16 S04 00:53:34 1985 BT	QXSRN ... SOKMF	BT	Fair	QRN2 QSB2	Spectre	TUE
	2305 - 2311z	03 Sep	NR 17 S04 01:05:41 1985 BT	JJCUB ... VHUMD	BT	Fair	QRN2 QSB2	Spectre	TUE
	2311 - 2317z	03 Sep	NR 18 S04 01:11:50 1985 BT	ACVYK ... TDMWS	BT	Fair	QRN2 QSB2	Spectre	TUE
	2317 - 2323z	03 Sep	NR 19 S04 01:17:02 1985 BT	VMNYP ... POBQC	BT	Fair	QRN2 QSB2	Spectre	TUE
9257	1646 - 1652z	25 Sep	Strong CW with groups of letters.					PoSW	WED
	1652 - (cont.)	25 Sep	BT NR 89 S25 18:52:53 1985 BT then resumed letters.					PoSW	WED
10609	1520 - 1522z	13 Oct	Strong, CW with groups of letters.					PoSW	SUN
	1522 - (Cont.)	13 Oct	BT NR 48 O15 18:23:55 1985 BT - then into groups of letters again.					PoSW	SUN

PoSW reports; Does not seem to use set frequencies or operate to a regular schedule and sends groups of letters. Pauses from time to time to send "BT NR" followed by a string of numbers, then "BT" and resumes groups of letters.

M51a (FAV22) Daily Mon - Fri, Sun & some Sats. See NL 72 for details

3881//6825

1130 - 1212z	16 Sep	Lundi-Lecon	01-2/1 Codé	01-2/2 Clair,	01-2/3 Codé,	01-2/4 Clair (420 grps/hr)	BR	MON
1130 - 1200z	17 Sep	Mardi-Lecon	02-2/1 Codé	02-2/2 Clair,	02-2/3 Codé,	02-2/4 Clair (600 grps/hr)	BR	TUE
1130 - 1204z	18 Sep	Mercredi-Lecon	03-2/1 Codé	03-2/2 Clair,	03-2/3 Codé,	03-2/4 Clair (720 grps/hr)	BR	WED
1130 - 1155z	19 Sep	Jeudi-Lecon	04-2/1 Codé	04-2/2 Clair,	04-2/3 Codé,	04-2/4 Clair (840 grps/hr)	BR	THU
1130 - 1203z	20 Sep	Vendredi-Lecon	05-2/1 Codé	05-2/2 Clair,	05-2/3 Codé,	05-2/4 Clair (960 grps/hr)	BR	FRI

M89 O

Before we move on to the logs. This interception by Jean-Paul (JPL) on 10 Oct deserves to be highlighted. It is most unusual for radio protocol to be breached, especially by operators from counties known to exercise a strict regime. This exchange then is a rare gem showing the humanity of those behind the key.

8888	0214 - 0305z	10 Oct	[NMAU DE ATUP (In chat) (Remote tuner Hong Kong)	JPL	THU
(In chat – 0214z) WHO ARE YOU ? (0214z) (Actually sent this!!!) 7U FM 3TTA6 BT					
3 MSG NR 1599 CK 48 10 10 1000 RMKS 46.4 TO 5975 K VV (0216z) QQ 4570 7826 K M K (0217z)					
VV WHO ARE WHO I ARE U K (0218z) (Sent a 2nd time - Silent) VVV NMAU DE ATUP K (0224z)					
VVVV NMAU DE ATUP K (0225 – Silent) (Monitored until 0305z)					

Operator Chat from M89

4039	1606 - 1616z	01 Oct	(In tfc) (Remote tuner Finland)	JPL	TUE
(In tfc) NTUA A473 47D. UN.A 563. 73TA 4U37 (Cont'd – 1606z) AR QSL ? K (1607z) QSL K QSA 2 0010 K R UMSG GA K					
(1608z) MSG GA K	HR MSG GA K	R GA K (1609z)	HR MSG GA 99..37 .1. MSG NR 004 CK 99 37 10.. 0000 BT 545N D3D. (Cont'd – 1610Z)(Signal fading) AR		
QSL ? K (1614z)	QSL k R PT .W K	R RPT 1W (Lost remote tuner for a minute – 1615z)	R HR NIL K (1616z)		
4209	1857 - 1903z	03 Oct	(In tfc) (Remote tuner Finland)	JPL	THU
(In tfc – 1857z) 3343 TU4T 77T. N3.5 DUN7 6NDA 7U4D (Cont'd) AR K K (1902z) QSL 0305 K K (1902z) OK (1903 – Silent)					
5454	1239 - 1247z	25 Oct	(In tfc) (Remote tuner Siberia)	JPL	FRI
(In tfc – hand sent – 1239z) 53T4 TA5U 5D4T (Cont'd) (A stronger station on same freq – unable to copy any longer – 1247z)					
5555	1525 - 1545z	06 Sep	(In tfc) (Remote Tuner Hong Kong)	JPL	FRI
(Monitoring begins – Silent - 1525z) ?3 67 67 67 DTN DU.69 T7T3 T7TA T7T3 T7T4 T. T7TD T7T4 T7T43 T7TA T7TT					
IIIIIIIIIIIIIIIIIIII K	SSSSSSSSSSSSSSSS (1530z - Silent)				
5555	1703 - 1733z	08 Sep	(In tfc) (Remote Tuner Hong Kong)	JPL	SUN
(In tfc – 1703z) NR 13.. K UNG V6363 5D6EN. NDU IMETT3D4 A5AT 6NA4 TTTT TTTT D44T 4E3.. (Cont'd – handsent –					
horrible CW – 1706z)	(Silent – 1711z)				
66... T ...(1715z) GEAS ... 36DUN6 46NTD ... (Cont'd – 1716z) IIII U6N3 5TAA U464 U75.. (Cont'd – 1718z) III 7U5. 7.7 D7356U					
DA6N 5363 575N 4N..	(Cont'd – 1723z)				
II II 45N5 A3? 53N7 5N46 N7D4 ? 5T7D U734 (Cont'd – 1723z) (Silent – 1728z)					
5555	1107 - 1123z	09 Sep	(In chat) (Remote Tuner Hong Kong)	JPL	MON
(In chat – 1107z) GA (1107z) 58 5 EEE VVV 1234 BT (1116z) (Horrible horrible CW!!!) DE. DT73 8DE 6/091 EEEE/Z42/1957 4417					
4897 NR 0215/G378	QS (1116z)				
/19E 16 BT BT 7374/0530/G37/1951 AR AR AR 73 GB/0530/G37 NR 1000 .GT .. BT 791. 2.95712 19517364/112 AR K (1118z) 05W3					
GIM7 15971 73744//105 30/.7/19.1	AR K				
(1118z - Silent)					
5555	1938 - 1941z	10 Sep	(In chat) (Remote Tuner Hong Kong)	JPL	TUE
(In tfc – 1938z) TTU7 576A 54DU 76TA 6474 6457 6T47 (Cont'd – 1638z) AR K (1939z) K SK (1940z- Silent)					
5555	2025 - 2026z	23 Sep	(In tfc) (Remote tuner Hong Kong)	JPL	MON
MSG CK MSG CK TOSG CY .GCY AA (2025z) (Very weak) MSG ... AD63 .. MUD73 647NA3 6D (Cont'd – 2025z)) FM 73ADD FM					
66D7DA3DD 3D4NRPT 9.. 7908..					
9..I66..C8.888 .6888888 PBL (2026z - Silent)					
5555	1215 - 1221z	29 Sep	(In tfc) (Remote tuner Hong Kong)	JPL	SUN
(In tfc – Hand sent - 1215z) 7U43 5NUD 7NT6 A435 T3DN 56U7 A456 (Cont'd – 1216z) (Silent – 1219z) EEEE TD EEEE ? (1221z -					
Silent)					
5555	1215 - 1228z	01 Oct	(In tfc) (Remote tuner Hong Kong)	JPL	TUE
(In tfc – 1215z) NR 6868 VV BT A463 75TD NUAD N534 T67A U453 6A7D TNU3 A45T 6ND7 (Cont'd – 1217z) VV Z/39 2392					
RK (1219z)					
VV B8D.8N O8N88. 8DZ 8DZ 8NZ 8DZ AAA AAA AAA (1220z) VV BT S BTBN B8D 8DZM O 8DZ R K (1222z) N K R K R K R K R K R K R K VV BT 57DNR. N					

VV BT 57DNFEE FR LN VV BT 57DNR. VV BT 57... VV BT 57D7. BT VV BT 5... VV BT 57N VV BT 57NNE A.. VV BT 5DD.. Z VV BT 57D.
 VV BT (1225z – Horrible CW) VV BT 5D.8DGID. (1226z) VV BT 57DN R/R7DNR5 EEE VV BT 57... VV BT 57DNIEIII AR AR AR AR C (1228z)

5555	1115 - 1156z	03 Oct	(In chat/tfc) (Remote tuner Hong Kong)	JPL	THU
(In chat – 1115z) QSA 2 .. (Hand sent - Horrible CW!!) 05 05 QT... (1117z) (Seems to be using 05 as sort of an abbreviated call sign) V QSA 2 HCQ... 7456 DUA4 5DDU A456 DUA (Cont'd) AR K (1119z) MSG 09/CCK CK 28 64 0 EEEEEEE MSG 09/CCK CK 28 68 1003 1900 RMKS 883. TO .168. (1120z) GNR 09/CK 28 64 1003 0910 RMKS .0550 TO 0044 00.3 AR AR H95057. /09/CCK CK 29 64 10003 0910 RMKS 8839 TO 6168 .660 .68 117 BT 46N4 A55. TA7NT TN (Signal fading – 1123z) AR AR AR QSL ? 446D AR (1124z) 05 05 05 .. QSA 2 VV 05 05 05 05 05 05 (Cont'd – 1125z) BT MSG NR 09 NR CCK 28 64 1003 0910 RMKS 8839 TO 6168 8660 8..8 .7136 778 BT ? A554 T.N T47N U56T (Cont'd) AR (1128z - Silent) . QSA 2 H.4 BT QSA 2 556D 456D U4.. (Cont'd – 1131z) .. 446D U45/CW.467/457G (1132z - Silent) 56 56 56 56 (Cont'd – different weaker station – 1136z) (Using abbreviated call sign?) 56 56 56 56 (Cont'd – 1138z) C SK SK C (1139z - Silent) ... 05 05 05 05 (Cont'd – 1142z) O5 BT AN6U N63U ND6D 65N.. .. A576 (Cont'd – 1147z - 2nd weaker station in background) AR (1154z) 05 05 /001 CK 91 137.. 3 /7UA. 3. DE 34U3. 6U 347D ... (Silent - 2nd weaker station now in tfc in background - 1156z)					
5555	1630 - 1705z	05 Oct	(In tfc) (Remote tuner Hong Kong)	JPL	SAT
(In tfc – 1630z) 5T4N 5AT7 7A63 AUT7 A7A3 NU63 A3A5 (Cont'd – 1631z) III BT BT T35D A3UA 4AAN 3TD3 5D3A (Cont'd – 1632z) AR AR (1639z) R R R GA (1639z) RR GA (1640z) (Monitored until 1705)					
5555	0125 - 0141z	11 Oct	(In tfc) (Remote tuner Hong Kong)	JPL	FRI
(In tfc – 0125z) ADT6 7NDT A3U5 N64. (Cont'd – very slow – hand sent – 0125z) 9456 7892 0I? 04..24 2639 13.5 6129 763? 7630 584W? 5841 3246 5789 0123 8 V5689 (Cont'd – using long zero – switched from cut numbers – 0134z) (Silent 0141z – just stopped sending)					
5555	1040 - 1102z	11 Oct	(In tfc) (Remote tuner Hong Kong)	JPL	FRI
(In tfc – 1040z) 3456 DT7N UA34 756A DTUN 345D NT6A 37U4 (Cont'd – handsent – slow CW - 1041z) MSG NR 1001 CK 50 (Another station came up on freq and started this message on top of the original station – 1044z) MSG NR 1001 CK 50 87 1011 1840 BT UT7A ATU4 7A6T A36N 75T4 7... (Cont'd – machine sent – fast CW- 1045z) (Original station still trying to send his message) MSG NR 1001 CK 50 87 1011 1840 BT UT7A ATU4 7A6T A36N 75T4 (Repeats msg – 1048z) MSG NR 1002 CK 50 87 1011 1834 BT .....UT7A DN4T 7A6T A... (Cont'd 1050z) MSG NR 1002 CK 50 87 1011 1849 BT TN34 5TA3 UT7A DN4T 7A6T A36N (Repeats msg – 1053z) AR AR MSG NR 1002 CK 50 87 1011 1849 BT TN34 5TA3 UT7A DN4T 7A6T A36N (Cont'd – Sending much faster now -1055z) (Original station still sending in background but now mostly U/R) AR (Silent – 1058z) MSG 1001 CK 50 87 1011 1845 BT UT7A ATU4 7A6T A36N (Cont'd – 1100z) (Silent – 1102z)(Original station still sending)					
5566	1617z	17 Oct	(In tfc) (Remote tuner Siberia)	JPL	THU
(In tfc – 1617z) 3737 D3D FM 3 FM 3 FM 3 N4N4 FM (1618z - Silent) 63 (1623z) P64I DE YET1 R QSA 2 QSA ? K K R P64I DE YET1 QSA AR QSA ? K R P64I DE YET1 QSA 2 QSA ? K (1625 HR QRJ QSY TO 6677 K (Checked 6677, but N/H) R R HR QRJ Q EEEE RV EEEE R HR QRJ 68 QSY NR 1W K R AS (1627z - Silent)					
5566	1940z	17 Oct	(In tfc) (Remote tuner Siberia)	JPL	THU
(In tfc – 1940z – Very weak - Tfc sent very slowly) CRT BT 477.HW? K (1943z) QSL QSL 23.. 10 BT 5EEEE BT 7R..RH. NR 0001 1 0 0106 1.0 101 .. 001. K (1947z) 001 10 1 .0.703 3... NAUD T4.. 7.N. 3DN7 543T (Cont'd – 1949z)					
6666	1541 - 1621z	07 Sep	(In tfc) (Remote Tuner Hong Kong)	JPL	SAT
(In chat – 1541z) R (1541z) BT BT BT BT U65T TU5A 4U57 63D7 TA6T U343 N3NU 6T6A TA73 TT3T DT47 (Cont'd – 1542z) IIIIIII BT BT 34D4 56TD 5443 ANUD 6UA5 DT5A T757 (Cont'd – 1548z) AR AR (1553z) R R BT 4643 AR K (1553z) R AS AS (1554z - Silent) K K K (1600z) QSL 2 K (1600z) R R G QSY EEEE U .. GA K (1600z) AS (1601z) AS (1602z) GA GA (1603z) GA (1604z) AS (1616z – Silent – Lost remote tuner @ 1621z)					
6666	1714 - 1726z	30 Sep	(In chat/tfc) (Remote tuner Hong Kong)	JPL	MON
(In tfc – 1714z) R R HR E GA R EE NR .4/XT 114 RMKS 3032 TO .2.2 K BT XTI 3./R Q1A AR K (1715z) UGT K QSL .117 K (1716z) HR MSG GA K R MSG NR 04 CK 115 77 0930 0... RMKS 3032 TO 9212 K MSG NR 04 CK 115 77 0930 0100 RMKS 3032 TO 9212 K BT BT 4A.3 576A 37NA D736 344U 644T 5743 NUA. T. K (1718z) AGN R R R R BT 4AU3 576A 37NA D736 344U 654T 5743 NUA5 TA6U TTT3 4D3D (Cont'd – 1720Z) TA6U TTT4 N5D. UTN3 7A7A D3? 3DU4 T537 AR K (1725z) R SK Z EEEE SK GB (1726z)					
6666	1513 - 1528z	03 Oct	(In chat/tfc) (Remote tuner Finland)	JPL	THU
(In tfc – 1513z) 4AN3 UTA5 7476 TU5T (Cont'd – 1514z) III (1523z) R III BT A7UD III R AGN BT 63N. III (1523z) R BT U6 III III W. (1524Z) BT 57.D III (1525z) AS (1525z) GA GA (1527z) U GA U MSG GA . (1527z) GA .. 0 1... GA (1528z)					

6666	0159 - 0216z	11 Oct	(In tfc) (Remote tuner Hong Kong)	JPL	FRI
0209z)	2568 (0159z) 0789 23 (Silent – 0159z) BT .047 0631 1243 5810 8635 7934 8249 5790 (Cont'd – Handsent - using long zero – 0202z) (Possibly station previously on 5555 switched freq) AR (0208z) 8690 7493 6589 1587 7469 ? 4325 2743 5201 1063 0281 (Cont'd – TN7D 65UT A434 TNA7 36D5 4DN3 N4N? N456 U374 7DAT AR (0210z) (Again switch from number groups to cut numbers) BT D6NT 74N3 65DN A5D7 D? 746N (Cont'd – 0212z) (Silent 0216z)				
6666	1132 - 1148z	15 Oct	(In tfc) (Remote tuner Siberia)	JPL	TUE
4689/4679/488 AR	VVV ? 3 EEEEE (1132z) VV 0Q5 0OQX 0OQX K (1132z) K DE K DE K (1132z) R R HR QSL 5 HR QSA 2 K (1133z) R IEC BT 4185 AR K (1133z)(Normally associated with Exercise traffic) R HR NR 13 K HR NR 143 R R (1134z) HR E GA K (The letter E sent is a Barred E) HR E GA K (1135z) NR 10/EX 93 AR RMKS 9069 TO 4679 K (1135z) NR 10/EX 193 AR RMKS 909 TO 4679 K (1136z) R BT DA4OB/E9RHL AR K BT DA4OB/EAS K DAFM E.5 DWB/EJHFM/E15 BT DUT3NU N5A B9TA7UTU EEEE (1137z) BT EH BT DA4OB/E9RHL AR K (1138z) R U GA K (1138z) R (1139z) GA (1140z) QSL 193 AR H QSL 1937 HR MSG GA K K (1141z) MSG NR 10 CK 30 58 10 15 1938 RMKS 965 RMKS 9069 TO AGN RMKS 9069/468./4679/1 (Another weaker station came up on freq) AQSP 9069/EEEEEE RMKS QSP 9069 TO 4689/4679/468 AR/4665 K AS AS BT UA35 4U34 7UTA NDDU 6NNA 674A DU47 U..4 TA74 TTA5 3667 464U N54T (Con'd – 1145Z) AR (1146z) AGN BT UA35 AR BT UN5T AR BT 7TDU AR BT T5A. AR BT U6T5 AR AGN 5 (1147z) AS SK SK (1148z)				
6666	0049 - 0056z	22 Oct	(In tfc) (Remote tuner Hong Kong)	JPL	TUE
	(In tfc) 4335 A45D 37N. N3. (Cont'd – very weak - 0049z) AR K //A (0052z) QSL 0851 K //B (0053z) QSL 0851 K//B R R QSL 084 EEEE QSL 0851 K//B (0053z - Silent) R NR 1160 K K//A (0056z - Silent)				
6666	0240z	22 Oct	(In tfc) (Remote tuner Hong Kong)	JPL	TUE
	(In tfc) NR 097 NR 0 (0240z - Silent)				
6937	1340 - 1342z	04 Oct	(In tfc) (Remote tuner Hong Kong)	JPL	FRI
	(In tfc 1340z) NDU4 73ND U473 NT.. (Cont'd – 1341z) (Silent – 1342z)				
7767	1211 - 1230z	25 Oct	(In tfc) (Remote tuner Siberia)	JPL	FRI
	(In tfc – hand sent) 435. TTA7 3646 A5U. (Cont'd – horrible CW) 50 50 50 (1220z) 50 (Cont'd – 1221z) ? MAT. U NH ? T U3TT 45NT 4T.3 (Cont'd – 1222z) (Silent – 1230z)				
7777	0239 - 0318z	06 Oct	(In tfc) (Remote tuner Hong Kong)	JPL	SUN
	(In tfc - 0239z) U74T A6. UTN4 3T7A DN54 N77N (Cont'd) AR K (0240z) R 12W B753 K R NAN6 K (0241z) R R W EEEE 72W M EEEE 72W A4N5 K T6DN K R 86W A6DN K (0242z) R F EEE RPT K R NIL SK SK (0243z) VVVV 55 755 VVV (0247z - Silent) MSG NR CK 01GATR BT (0302z) MSG NR .AR K TA I BT NR .CK MSG NR EA CK ..G.. BT (0303z) MSG 10 CK 30 34 MSG NR 10 CK 10 (0304z) VVV F1.. ZRR Q.. R R R R ..5873 AR K (0305z) 7GA NR NR 0150/CK CK 91 03 1006 1100 RMKS 1AAF 5RMKS 10.. TO ...308 . NR 015 00 NR NR 0150/CK R RHR RPT NR NR 0150/CK CK (0307z) HR RPT ...K K BT BT (Signal fading badly at times) 7D3A NT4D U7A4 4ADT 46T6 56DT T3UD 4NNT T3UA TTU6 D37N (Cont'd – 0309z) AR K (0312z) HR RPT (0313z) HR RPT 30W BT BT 637A AR K K R HR RPT 29W BT BT A5N3 AR K K HR RPT BT BT UN7A AR K K (0314z) HR RPT BT BT T57T HR RPT 40W BT BT U7N4 AR K K HR RPT 31W BT BT K HR RPT 5.W BT BT K (0315z) K K HR ...W BT BT 5A45 AR K K (0317z) HR RPT 7.W BT .7AD AR K K OK OK (0318z - Silent)				
7777	0602 - 0610z	14 Oct	(In tfc) (Remote tuner Hong Kong)	JPL	MON
	VV FF32 FF32 ... (In call up – 0603z) RG 6..USL.... (Weak) R R QSA AR VV FBSZ DE 5HDS K ...DE F... .. R R QSA 2 .. GA R R 7G NR NR 4110 CK 80 48 10 14 1400 RMKS CQ K (0604z) RR BT D657 6U54 35T7 4TD3 6UT4 7DTN 5TD6 5UA3 DUA3 436. (Cont'd) AR AR (-0608z) VV FF32 FD DE 5HDS R QSL F6TS DE 5HDS K (0609z) (Unsure of F6TS call sign) R R OK GB GB (Silent – 0610z)				
7788	0115 - 0237z	22 Oct	(In tfc) (Remote tuner Siberia / Hong Kong)	JPL	TUE
	(In chat – 0115z) R M HR MSG GA K R GA K R HR MSG GA NR 009/CK CK 9 EEEEE NR 009/CK CK 9. FM CK ..185 10 EEEE NR 009/CK CK 985 10..0.1. DD54 DD54 N.TA I7.EEEE DD54 DD54 NI.. S54 (0119z) AGN NR 009/CK CK 91 85 1022 0915 RMKS 6547 TO 6298 BT DD54 D54N ? DD54 N... DD54 .4I3 DD54 DD54 A.W? DD54 DD54 ? DD54 5AN3 U.DT U3N7 DD54 T7D4 DD54 ...UA ..D .. (Fading – 0122z) 47DN A5.. 445. DD54 DD54 DD54 6.AU DD54 (Keeps sending DD54) (This message format is normally associated with the QV5B family) (Earlier, QV5B sent UGT COMM message referring to G06 which may equate to this frequency - 7788) AR 7II BT N64. (0126z) WK NR .5 QSL ? K RPT... (Too weak to copy – 0127z) RPT .W TO 5W BT DD54 DD54 N3AU .54 D... RPT ..W EEEE RPT 10W TO .3W BT EAN3 ? .D54 .N3 UADT U..7 AR K (0129z) R RPT ...W K RPT 65W 8398.3.. K (0130z) R ...W K R RPT 64W ... K RPT 65W K R RPT 65W ..93 K (0131z) R ZNN (0132z)				

SK SK GB (0133z) (Switched to Hong Kong remote tuner – 0133z) (In tfc – Very slow) RMKS 7116 TO 7102 BT BT AS2G ? PSE 3 C AR (0134z) R OK PSE U 'E GA HW K (0135z) K (0136z) R HR RPT TIME 0929 0929 K (0138z) R PSE U 'E GA HW K (0141z) R QSL 0942 HW K (0143z) R HR 7G GA HW K (0145z) R HR 7G GA NR NR 2075/CCK CK NA HD ATUU TN4 (0145z) R HR 7G GA NR NR 2075/CCK K (1046z) (Another weak station in background) R HR 7G GA NR NR 2075/CCK CK 91 58 (1047z - Silent) R HR MSG GA NR NR 2075/CCK CK 91 58 1022 0944 ? RMKS BT (0150z) 7116 TO 711 AR (0151z) R HR MSG GA NR NR 2073/CCK CK 91 58 1022 0944 RMKS 7116 TO 7113 CY SK K (0153z) R BT BT (0155z) (Message number changed from 2075 to 2073) DNUA T.UN 7AD5 DU67 75DD T4TA 3T5A AUD5 TA5A TTUT DN5T A364 (Cont'd – 0156z) AR AR K (0201z) R HR RPT 44W 2409 2409 K (0203z) R OK .. U MSG GA HW K (0205z) R PSE GA K (0207z) R (0215z) HR QSL 1015 HR NR 315 U NR GA HW K (0216z) R HR RPT QSL 1015 1015 CY HW K (0217z – Silent – Monitored until 0237z)

7889	1054 - 1058z	23 Oct	(In tfc) (Remote tuner Siberia)	JPL	WED
	(In tfc – 1053z – Machine sent) 54NT TNA. 63TN 6T4A TAD4 (Cont'd – 1054z) AR K //A (1058z) R R RPT //B (1058z – Silent)				
7892	18265 - 1826z	03 Oct	(In chat/tfc) (Remote tuner Finland)	JPL	THU
	(In tfc – 1825z) D3AN A5.. 305 HR NR 305 NIL SK NIL (1826z)				
8119	1128 - 1141z	18 Oct	(In tfc) (Remote tuner Siberia)	JPL	FRI
.4U5 AR	(In tfc – 1128z) 3T6A T3D5 .A4N D4A6 U63. (Cont'd – hand sent – slow) AR K (1131z) R R BT 7W RNR PT 7W BT BT ..U5 AR K				
AR (1136z)	R R 7W BT U5. ARPT 7W RK NR RPT 8W BT BT 6A.N AR RPT 25 RPT 2.W R NR .. (Signal fading – 1133z) RPT 66W BT BT 76A. RR QSL 1936 AR U 7G GA K (1136z) U MSG GA (1137z) VVV 7G NR 56 EEEE VV 7G NR 55 CK 95 55 1018 192EEE VV 7G NR 565 CK 95 55 1018 1936 RMKS 3.2. TO 3129 TO 3.EEEE VV 7G NR 565 CK 95 55 1018 1936 RMKS 3129 TO 3234 K (1140z) R K RPT DATE. RR R .BT 55 4U.. 3TDU 7A4D DU..				
(Cont'd – 1141z)					
10173	1151 - 1159z	25 Oct	(In tfc) (Remote tuner Siberia)	JPL	FRI
	(In tfc – 1151z – machine sent – weak and fading) 7A5U NDDD 7DB4 A43N DUDA U3.A UNDU (Cont'd) AR (1159z - Silent)				
10376	1237 - 1254z	23 Sep	8JUU (In chat/tfc) (Remote tuner Hong Kong)	JPL	MON
	(In chat – 1237z) VV FBRY DE 8JUU K (1237z) VV J4.. DE 8JUU K (Outstations on this frequency, but very weak) R QSA 2 K VV HNP7 DE 8JUU K QSA 2 K VV GN8Z DE 8JUU K (1239z) R QSA 1 AS VV 8.V. VV 8JUU DE 8JFU K VV ... DE 8JUU K (1241z) .. HR .. GA (1242z) Hr MSG NR 0 ./EX CK 99 57 EEEE NR 007/EX CK 99 58 ONU3.TU5 EEE RMKS CQ BT UDD3 7NN7 4DD5 4 ? BT UDD3 7NN7 4DD5 NU3U T73U 6D65 46UN AD75 36AD D53U UA5A (Cont'd – 1245z) AR (1251z) DE 8JUU K (1254z)(Signal fading – mostly U/R)				
10376	1237 - 1306z	24 Sep	8JUU (In chat/tfc) (Remote tuner Finland)	JPL	TUE
	(In chat – 1237z – Very weak) VV GNN. DE 8JUU K (1237z) VV HR G EEE HR MSG GA K (1239z) GA GA HR MSG GA K MSG D4T AM NR 009/EX CK 99 7. 0.24 2025 RMKS CQ K (1241z) GA R BT DU65 N653 6536 N.. (Cont'd – 1241z) AR (1247z) RPT K (Very weak) RPT PBL K R R RPT 38W BT 36DD 36DD AR K RPT 3.. K BT 39W T EEE RRPT 39W TO 42W BT A.3D 36D6 T64D EEE T63D 6NTN AR K (1250z) R RPT 72W BT BT DN56 DN56 AR K RPT 89W BT 36DN 36DN AR K AS (1252z) VV (1257z) VV AS AS (1301z – Lost tuner at 1306z)				
10376	1231 - 1242z	28 Sep	8JUU (In chat) (Remote tuner Hong Kong)	JPL	SAT
8JUU ..	(In chat – 1231z – extremely weak signal) DE IKRE OK QSA 1 QSA ? K (Unsure of this call sign) R HR WK NR 27 K VV F. DE (1234z – Calling stations one by one but mostly U/R) ... 25 K (Silent – 1239z) VVV (1242z - Silent) (This frequency was monitored at this time frame the 26th and 27th, but N/H - Was not monitored the 25th)				
10376	1225 - 1239z	29 Sep	(In chat) (Remote tuner Hong Kong)	JPL	SUN
	(Monitoring began at 1225z) VV VV VV (1227z) VV ... K (1230z) R K VV 2 K (All stations too weak to copy) R 7KPZ DE ..R0 R QSA 1 QSA ? K (Last character of the station sending is zero) R (1233z) 11 4. AR K NIL TU R HR WK ... K R HR WK NR 12 K (1234z) VV QSA 2 QSA VV 62 AR K R K R HR WK NR 31 K (1235z) 8KPM DE QSA 1 QSA ? K (1236z) (Call sign of control station is 7KPZ or 8KPM) FB R. R.. EEE U NIL .. (1239z)				
10659	0105 - 0109z	15 Oct	(In tfc) (Remote tuner Siberia)	JPL	TUE
	(In tfc – 0105z – Very weak) NR 1053/.0. BT BT H.../TT.F C NR 1053/.../EX 5 NR 1053/EX 0.95 BT HGRG/TTYF..QSL ? K (0106z) R ..TK (0107z) AR U E GA K (0107z) QSL 0.. K (0109z - Silent)				
11093	1134z	25 Oct	AFK1 (In call up) (Remote tuner Siberia)	JPL	FRI
	VV AFK1 (1134z – Hand sent - Cont'd – Very weak) HR N. MS. (1137z - Silent)				

11321	0148 - 0202z	10 Sep	(In chat) (Remote Tuner Hong Kong)	JPL	TUE
	(In tfc – hand sent – poor CW – 0148z) NNU5 6UTD UD46 NT5N (Cont'd – 0149z) (Silent – 0153z)				
14778	1038 - 1056z	12 Sep	(In tfc) (Remote Tuner Hong Finland)	JPL	WED
	(In tfc – 1038z) BT A3T4 BT A3T4 BT UUUT BT 4TD5 5DNA BT AAA7 (1039z - Silent) 98DFM 3TE (1043z) 08.TO 09V 17 50 TO L1 5. QSL (1044z) MSG NR 4.1 CK 91 33 .912 1000 BT U6UT D56D NND7 D445 UAU5 DD4. N... (Cont'd – 1045z) AR (1048z) BT 45D6 BT 4NT6 (1049 – Silent) BT NT45 (1055z) BT 7ADD BT AT73 73 SK USB (1056z – Shifted to voice)				
14862	1012 - 1058z	05 Sep	(In tfc) (Remote Tuner Finland/Hong Kong)	JPL	THU
	(In tfc – 1012z) AR RPT (1013z) BT 65 EEEE ... BT NADD NADD (1014z - Silent) RPT .. (1017z) QSL MSG GA NR 408 5. 22 0905 1800 BT 7N45 .T. D7UD 5543 N5AU U7DN 633A ? ..3A TTA3 (Cont'd – 1018z) (Switched to Hong Kong remote tuner) AR K (1020z) BT 633 EEEEE BT TTU3 TTU3 (1020z) RAKT 25W (1025z) RPT 31W 32W 32W (1026z) 62W 62W R QSL ... (1026z) MSG GA NR 409 CK 9. ...0905 1800 BT BT 4NT3 UNA. 66AU. (Cont'd – 1027Z) AR K (1030z) BT A374 A374 (1031z) BT D557 D557 BT 5TN4 5TN4 (1032z – Silent) RPT ... K (1036z) RPT 1.W 16W RPT 47W 47W RPT 49 EEE RPT 49W 49W RPT 64W 64W 65W 65W QSL MSG GA NR 410 CK 91 33 0905 1800 BT 7N4U A.4D 5475 N6AA A..N TU33 66AD 77U7 AUAT TTAT U4D4 (Cont'd – 1039z) AR K (1042z) QSL (1045z) MSG GA NR 411 CK 91 33 0905 1800 BT 66NN 73A3 NA5U NNNA A56N 6U3U 4T3A 5T75 AU4A TT3D 3T3A (Cont'd – 1046z) AR K (1049z) R BT 577D 577D BT DA54 DA54 (1051z)				

(The message format – sending GA before NR suggests that this station belongs to the GNXG family. GNXG has recently ceased to be active and I believe has been replaced by ASDF)

RPT 38W 38W (1054z) R RPT 53W 53W RPT 53W 53W R QSL (1055z)
MSG GA NR 412 CK 51 22 0905 1800 BT
U5U. .5N4 6736 N7UN 436N 5NU7 D5AD U5N6 NNNN TTUT 7U43 (Cont'd – 1056z) (Signal beginning to fade a bit)
AR K (1058z) SK (1058z)

14862	1037 - 1038z	21 Oct	(In tfc) (Remote tuner Hong Kong)	JPL	MON
	(In tfc – 1037z) 45N7 ND.6 43.. (Cont'd – very weak – 1037z) AR (1038z - Silent)				

M89 Regular Logs

September 2013: (New pairings marked in bold type)

3300//NRH	1427 - 1428z	05 Sep	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	1645 - 1646z	05 Sep	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	1948 - 1949z	05 Sep	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	1401 - 1402z	06 Sep	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	1514 - 1515z	06 Sep	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	2205 - 2206z	06 Sep	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	1538 - 1539z	07 Sep	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
	1300 - 1303z	08 Sep	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN

(In tfc – 1300z) RMKS 0165 TO 16.. UGT COMM SH.. 5945/1605/2130.. 37 NR/0165 AR BT 0594./1605/2130/23Z/.0165 AR
(Return to R/S – 1301z)

	1646 - 1647z	08 Sep	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	2027 - 2028z	08 Sep	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	1100 - 1101z	09 Sep	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1402 - 1403z	09 Sep	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1817 - 1818z	09 Sep	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	2043 - 2044z	09 Sep	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1256 - 1257z	10 Sep	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1626 - 1630z	10 Sep	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE

(In tfc – 1626z) D535 TN37 TD57 D4D5 DU7U 7TUT (Cont'd – 1626z) III BT DN4U AR (1627z - Return to R/S)

	1934 - 1935z	10 Sep	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1201z	23 Sep	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	MON
	2017z	23 Sep	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	MON
	1502z	24 Sep	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	TUE
	1943z	24 Sep	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	TUE
	1225z	28 Sep	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SAT

(In tfc) III BT D754 AR K (1225z – Return to R/S)

	1518z	28 Sep	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SAT
	2003z	28 Sep	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SAT
	1202z	29 Sep	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SUN

(In tfc – Appears to be UGT COMM msg) 165 AR K (Return to R/S 1202z)

	1657z	29 Sep	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SUN
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	1257z	30 Sep	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	MON
	1953z	30 Sep	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	MON
	2203z	30 Sep	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	MON
3642//NRH (3642 only)	1813 - 1814z	09 Sep	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	MON
(3642 only)	2044 - 2045z	09 Sep	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	MON
(3642 only)	2004z	28 Sep	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SAT
3642//7602	2226 - 2227z	04 Sep	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	WED
	2203 - 2204z	06 Sep	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	FRI
	1536 - 1537z	07 Sep	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	SAT
	1631 - 1632z	10 Sep	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	TUE
	1936 - 1937z	10 Sep	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	TUE
	1946z	24 Sep	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	TUE
	1702z	28 Sep	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SAT
	2017z	28 Sep	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Sweden)	JPL	SAT
	2354z	28 Sep	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Sweden)	JPL	SAT
	1632z	30 Sep	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Russia)	JPL	MON
	1954z	30 Sep	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	MON
	2204z	30 Sep	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	MON
3797//4512 (3797 only)	1517 - 1518z	06 Sep	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
(3797 only)	1534 - 1535z	07 Sep	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
	1645 - 1646z	08 Sep	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	2025 - 2026z	08 Sep	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
(3797 only)	1400 - 1401z	09 Sep	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
(3797 only)	1815 - 1816z	09 Sep	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
(3797 only)	2041 - 2042z	09 Sep	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1255 - 1256z	10 Sep	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
(4512 only)	1618 - 1619z	10 Sep	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
(4512 only)	1932 - 1933z	10 Sep	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
(3797 only)	1200z	23 Sep	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	MON
	2018z	23 Sep	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	MON
	1341z	24 Sep	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	TUE
	1503z	24 Sep	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	TUE
	1941z	24 Sep	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	TUE
	1246z	28 Sep	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SAT
	1519z	28 Sep	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SAT
	2005z	28 Sep	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SAT
	1206z	29 Sep	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SUN
(3797 only)	1658z	29 Sep	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SUN
	1259z	30 Sep	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	MON
(In tfc – 1259z) 3U33 6T3. D34. .5D5 3DTN 3DN6 (Cont'd – 1300z) AR (Return to R/S – 1301z)					
	1956z	30 Sep	V H2FL (x3) DE DRV8 (x2) (Cont'd)) (Remote tuner Hong Kong)	JPL	MON
4225//5500 (4225 only)	1643 - 1644z	08 Sep	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	2019 - 2020z	08 Sep	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	1054 - 1059z	09 Sep	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
(In tfc) /1925/7 U EEEEE (1054z) UVVV UGT COMM BT 7124/1925/Z2 EEEEE AGN VV UGT COMM BT 7124/1925/Z34/1951 AR VV UGT COMM BT 7124/1925/Z34/1951 AR VV UGT COMM BT 7124/1925/Z34/1951 AR (Return to R/S – 1057z)					
(4225 only)	1402 - 1403z	09 Sep	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1811 - 1812z	09 Sep	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	2039 - 2040z	09 Sep	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1254 - 1255z	10 Sep	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1625 - 1626z	10 Sep	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1930 - 1931z	10 Sep	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1158z	23 Sep	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	MON
(4225 only)	1548z	23 Sep	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote tuner Finland)	JPL	MON
(4225 only)	2025z	23 Sep	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	MON
(4225 only)	2351z	23 Sep	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	MON
	1340z	24 Sep	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	TUE
	1501z	24 Sep	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	TUE
	1735z	29 Sep	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SUN
	2236z	29 Sep	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SUN
	2325z	29 Sep	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SUN
	1255z	30 Sep	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	MON
	1710z	30 Sep	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	MON
	1958z	30 Sep	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	MON
(4225 only)	2207z	30 Sep	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	MON
(In tfc – 2207z) U346 UA45 465T 63U6 (Cont'd) AR AR AR (2208z)					
4474//NRH	2211 - 2212z	04 Sep	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Russia)	JPL	WED
	2043 - 2044z	08 Sep	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Sweden)	JPL	SUN

	2215z	30 Sep	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	MON
4860// 6840	2220 - 2225z	04 Sep	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	WED
	1520 - 1525z	06 Sep	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	FRI
	1420 - 1425z	09 Sep	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	MON
	1820 - 1825z	09 Sep	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	MON
	1620 - 1625z	10 Sep	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	TUE
	2020z	23 Sep	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) (Remote tuner Hong Kong)	JPL	MON
	1520z	28 Sep	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) (Remote tuner Hong Kong)	JPL	SAT
	2220z	30 Sep	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) (Remote tuner Hong Kong)	JPL	MON
5230//7602 (5230 only)	1845z	02 Sep	V DKG6 DKG6 DKG6 de 3A7D 3A7D	FN	MON
	1950 - 1951	05 Sep	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	THU
	2246 - 2248	05 Sep	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	THU
	1257 - 1258z	08 Sep	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	1648 - 1649z	08 Sep	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	2029 - 2030z	08 Sep	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	1519z	23 Sep	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Finland)	JPL	MON
	1630z	23 Sep	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Finland)	JPL	MON
	2019z	23 Sep	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	MON
	0040z	24 Sep	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Sweden)	JPL	TUE
	1701z	29 Sep	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SUN
	2239z	29 Sep	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SUN
5485//NRH	2213 - 2214z	04 Sep	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	1429 - 1430z	05 Sep	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	1643 - 1644z	05 Sep	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	1945 - 1946z	05 Sep	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	1402 - 1403z	06 Sep	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	1513 - 1514z	06 Sep	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	2206 - 2207z	06 Sep	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	1540 - 1541z	07 Sep	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
	1404 - 1405z	09 Sep	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1819 - 1820z	09 Sep	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	2045 - 2046z	09 Sep	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1258 - 1300z	10 Sep	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1633 - 1634z	10 Sep	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1937 - 1938z	10 Sep	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1154z	23 Sep	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	MON
	1550z	23 Sep	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Finland)	JPL	MON
	2030z	23 Sep	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	MON
	1249z	28 Sep	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SAT
	1520z	28 Sep	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SAT
	1209z	29 Sep	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SUN
	1659z	29 Sep	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SUN
	2241z	29 Sep	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SUN
	1250z	30 Sep	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	MON
	1634z	30 Sep	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Russia)	JPL	MON
	1957z	30 Sep	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	MON
	2207z	30 Sep	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	MON
5588//NRH	1130 - 1131z	04 Sep	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	0958 - 0959z	05 Sep	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	1100 - 1101z	05 Sep	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	1017 - 1018z	08 Sep	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	2350z	23 Sep	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	MON
	0943z	28 Sep	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SAT
	0902z	30 Sep	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	MON
(In tfc – 0902z – Mostly U/R) III BT AR (0912z) MSG NR 1.9 CK 3. 34 30 .. BT (Cont'd – 0913z) III BT ...					
(0925z) (Return to R/S – 0926z)					
5801//10180	1126 - 1127z	04 Sep	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	WED
	1359 - 1400z	06 Sep	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	FRI
	1515 - 1516z	06 Sep	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	FRI
(5801 only)	1257 - 1258z	10 Sep	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	TUE
	1213z	23 Sep	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	MON
	1345z	24 Sep	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	TUE
	1500z	24 Sep	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	TUE
	1250z	28 Sep	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SAT
	1643z	28 Sep	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SAT
	1212z	29 Sep	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SUN
	1248z	30 Sep	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	MON
6773//8040	1132 - 1133z	04 Sep	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	2216 - 2217z	04 Sep	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	0955 - 0956z	05 Sep	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
(8040 only)	1431 - 1432z	05 Sep	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
(8040 only)	1647 - 1648z	05 Sep	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
(8040 only)	1952 - 1953z	05 Sep	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	1016 - 1017z	08 Sep	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	1102 - 1103z	09 Sep	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON

(8040 only)	0940z	28 Sep	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SAT
	2327z	29 Sep	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SUN
	0858z	30 Sep	V H2FL (x3) DE DRV8 (x2) (Cont'd)) (Remote tuner Hong Kong)	JPL	MON
6840//NRH	1220z	23 Sep	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) (Remote tuner Finland)	JPL	MON
	1220z	24 Sep	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) (Remote tuner USA California)	JPL	TUE
	1920 - 1925z	26 Sep	VVV Q2M Q2M Q2M de NYZ NYZ Stops 1925z: vvv k	FN	THU
	2020z	28 Sep	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) (Remote tuner Sweden)	JPL	SAT
6840//10640	1120 - 1125z	04 Sep	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	WED
	0820 - 0825z	07 Sep	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	SAT
	1020 - 1025z	08 Sep	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	SUN
	2020 - 2025z	08 Sep	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	SUN
	1220z	28 Sep	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) (Remote tuner Hong Kong)	JPL	SAT
	2320z	28 Sep	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) (Remote tuner Hong Kong)	JPL	SAT
	1220z	29 Sep	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) (Remote tuner Hong Kong)	JPL	SUN
	2320z	29 Sep	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) (Remote tuner Hong Kong)	JPL	SUN
7582//8110 (7582 only)	0805 - 0845z	07 Sep	(In tfc) (Remote Tuner Hong Kong)	JPL	SAT
(In tfc – 0805z) NR EE NR U NR EE NR 1 /1001/EX EE NR (0807z - Silent) (Not monitored between 0820-0825 due to NYZ Sked)					
	0144 - 0145z	10 Sep	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	2358z	23 Sep	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	MON
	0236z	30 Sep	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	MON
	0855z	30 Sep	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	MON
7602//NRH	1940z	01 Sep	V DKG6 DKG6 DKG6 de 3A7D 3A7D	FN	SUN
	1433 - 1434z	05 Sep	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	THU
	1649 - 1650z	05 Sep	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	THU
	1842z	26 Sep	V DKG6 DKG6 DKG6 de 3A7D 3A7D	FN	THU
8750//NRH	2249 - 2250z	05 Sep	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	0808 - 0809z	06 Sep	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	1018 - 1019z	08 Sep	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	1650 - 1651z	08 Sep	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	2030 - 2031z	08 Sep	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	2340z	28 Sep	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Finland)	JPL	SAT
8750//10210	Note: New frequency for ASDF - Thanks to Brian for the help in finding this // frequency!!!				
(10210 only)	0935z	28 Sep	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SAT
	2335z	29 Sep	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SUN
	0233z	30 Sep	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	MON
	0835 - 0849z	30 Sep	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	MON
(In tfc – 0835z) NR ... 1630 RMKS ...30 ... 453 BT COMM/7.5. LZ/ 4013/9106/2458 AR AGN NR 178 1630 RMKS 91.30 TO 2458 TO .453 BT COMM/1715/LZ3 4013.8.6/14.AR QSL ? (Return to R/S – 0836z) MSG GA NR ... /CCK CK 91 73 093. 630 RMKS .10. TO 2333 /..3374 3740 BTN474T3 (Cont'd – 0840z) (Switched to // 8750 – much better copy) AR QSL ? HR WKR NR 13 (0843z – Return to R/S) V HR MSG DTAU TT3D 734A A? 4AUN TU3U 7TA3 4A7U T6.T TAU3 .UAN TNU5 N6T3 UDD4 (Cont'd – 0847z) AR QSL ? HR WK NR 13 (0849z – Return to R/S)					
10180//NRH	0957 - 0958z	05 Sep	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	THU
	0816 - 0820z	06 Sep	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Finland)	JPL	FRI
	(In tfc – 0816z) RMKS 1820 TO 2953 2951 298...81 2980 2096 .1.2 DTUS TA4D N36A ... (Cont'd – 0817z) AR .. QSL? HR WK NR 23 K (Return to R/S – 0819z)				
	1015 - 1016z	08 Sep	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	SUN
	1102 - 1103z	09 Sep	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	MON
	1111z	24 Sep	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Sweden)	JPL	TUE
	0930z	28 Sep	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SAT
	0831z	30 Sep	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	MON
October 2013:	(New pairings marked in bold type)				
3300//NRH	1541z	01 Oct	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	TUE
	1935z	01 Oct	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	TUE
	1437z	02 Oct	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	WED
	2015z	02 Oct	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	WED
	2156z	02 Oct	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	WED
	1103z	03 Oct	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	THU
	1948z	03 Oct	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	THU
	2137z	03 Oct	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	THU
	1302z	04 Oct	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	FRI
	1758z	04 Oct	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	FRI
	1435z	05 Oct	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SAT
	1626z	05 Oct	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SAT
	2232z	05 Oct	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SAT
	1208z	06 Oct	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SUN
	1915z	06 Oct	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SUN
	2205z	06 Oct	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SUN
	1818z	08 Oct	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	TUE
	1751z	10 Oct	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	THU

2204z	10 Oct	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	THU
1434z	11 Oct	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	FRI
1250z	14 Oct	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	MON
2026z	14 Oct	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	MON
1119z	15 Oct	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	TUE
1457z	15 Oct	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	TUE
1937z	15 Oct	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	TUE
1100z	16 Oct	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	WED
2031z	16 Oct	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	WED
1936z	17 Oct	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote tuner Siberia)	JPL	THU
1628z	20 Oct	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SUN

(From R/S – 1629z) MSG NR 081 CK 301 34 1021 0030 BT T5T6 3U7T 7DTA 4U4T 5NAT 7UA4 (Cont'd – 1230z)
 III U4U3 AR (1641z) MSG NR 081 CK 301 34 1021 0030 BT (Repeats MSG 081 – 1242z)
 T5T6 3U7T 7DTA 4U4T 5NAT 7UA4 .T6D 66DT TT4D TTTA (Cont'd – 1643z) III U4UE AR (1654z) (Return to R/S 1656z)

2013z	20 Oct	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SUN
2112z	23 Oct	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	WED
2200z	24 Oct	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote tuner Siberia)	JPL	THU
1911z	25 Oct	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	FRI
2127z	28 Oct	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote tuner Finland)	JPL	MON

3642//7602 (7602 only)	1540z	01 Oct	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	TUE	
	1936z	01 Oct	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	TUE	
	1455z	03 Oct	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Finland)	JPL	THU	
	1807z	03 Oct	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Finland)	JPL	THU	
	1952z	03 Oct	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	THU	
	2138z	03 Oct	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	THU	
	1904z	04 Oct	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	FRI	
	1442z	05 Oct	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SAT	
	1627z	05 Oct	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SAT	
	2233z	05 Oct	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SAT	
(3642 only)	1916z	06 Oct	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SUN	
	2206z	06 Oct	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SUN	
	1753z	10 Oct	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	THU	
	2205z	10 Oct	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	THU	
	2215z	10 Oct	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Sweden)	JPL	THU	
	1808z	15 Oct	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Siberia)	JPL	TUE	
	1938z	15 Oct	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	TUE	
	1934z	17 Oct	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Siberia)	JPL	THU	
	(3642 only)	2150z	18 Oct	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Siberia)	JPL	FRI
	(3642 only)	1700z	20 Oct	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SUN
(3642 only)	2014z	20 Oct	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SUN	
	1244z	22 Oct	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Finland)	JPL	TUE	

(In tfc - Hand sent) AU74 3D5T T.AU 47D3 DN5T (Cont'd – 1244z) AR QSL ? HR WK NR 29 (Return to R/S – 1246z)

1828z	22 Oct	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Finland)	JPL	TUE
1341z	24 Oct	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Siberia)	JPL	THU
1841z	24 Oct	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Siberia)	JPL	THU
2203z	24 Oct	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Siberia)	JPL	THU
1914z	25 Oct	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	FRI
2125z	28 Oct	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Finland)	JPL	MON
2329z	28 Oct	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Finland)	JPL	MON

3797//4512 (3797 only)	1239z	01 Oct	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	TUE
	1937z	01 Oct	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	TUE
	1438z	02 Oct	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	WED
	2016z	02 Oct	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	WED
	2157z	02 Oct	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	WED

(In tfc – 2157z) UGT COMM BT 91../....89/1../..AR
 UGT COMM BT 917..92..18./10.1/..../NDT. U/...02 AR
 UGT COMM BT 9170/9./189/0../.30/8.4/....AR (Return to R/S – 2200z)

1111z	03 Oct	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	THU
1949z	03 Oct	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	THU
2140z	03 Oct	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	THU
1304z	04 Oct	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	FRI
1759z	04 Oct	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	FRI
1436z	05 Oct	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SAT
1628z	05 Oct	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SAT
1210z	06 Oct	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SUN
1917z	06 Oct	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SUN
2207z	06 Oct	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SUN
1826z	08 Oct	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	TUE
1755z	10 Oct	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	THU
2206z	10 Oct	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	THU
1033z	11 Oct	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	FRI
1438z	11 Oct	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	FRI
1251z	14 Oct	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	MON

	2028z	14 Oct	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	MON
	1126z	15 Oct	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	TUE
	1458z	15 Oct	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	TUE
(3797 only)	1947z	15 Oct	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote tuner Siberia)	JPL	TUE
(4512 only)	2036z	16 Oct	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	WED
	1701z	20 Oct	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SUN
	2015z	20 Oct	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SUN
	2118z	23 Oct	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	WED
	21458z	25 Oct	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	FRI
	21915z	25 Oct	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	FRI
4225//5500 (5500 only)	1536z	01 Oct	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	TUE
	1940z	01 Oct	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	TUE
	1440z	02 Oct	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	WED
	2017z	02 Oct	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	WED
	2203z	02 Oct	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	WED
	1107z	03 Oct	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	THU
	1819z	03 Oct	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote tuner Finland)	JPL	THU
	1850 - 1854z	03 Oct	(In tfc) (Remote tuner Finland)	JPL	THU
(In tfc – 1850z) A75U NA45 6A6D 7NA3 7A7D 6553 (Cont'd – 1851z) (Checked //5500 – QV5B Sending R/S) K K (1852z) R R BT ..6. K K (Weaker station) R R BT .. K R BT 35UA BT 35UA K (1853z) R R R R SK SK US KU SB SB SB USB USB (1854z - Silent)					
	1945z	03 Oct	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	THU
	2139z	03 Oct	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	THU
	1309z	04 Oct	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	FRI
(Into tfc – 1312z) VV UGT COMM BT 2858/2140/G01/8398 (x2) (Return to R/S – 1013z)					
	1801z	04 Oct	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	FRI
	1440z	05 Oct	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SAT
	1629z	05 Oct	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SAT
	2238z	05 Oct	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SAT
	1212z	06 Oct	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SUN
	1918z	06 Oct	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SUN
	2210z	06 Oct	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SUN
	1829z	08 Oct	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	TUE
	1757z	10 Oct	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	THU
(4225 only)	2207z	10 Oct	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	THU
	1032z	11 Oct	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	FRI
	1440z	11 Oct	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	FRI
(5500 only)	2030z	14 Oct	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	MON
	1253z	14 Oct	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	MON
	1129z	15 Oct	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	TUE
	1459z	15 Oct	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	TUE
	1940z	15 Oct	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	TUE
	1036z	16 Oct	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	WED
(5500 only)	2017z	20 Oct	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SUN
	1702z	20 Oct	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SUN
4474//NRH	2236z	05 Oct	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SAT
	2212z	06 Oct	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SUN
	0037z	14 Oct	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote tuner Siberia)	JPL	MON
	1814z	15 Oct	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote tuner Siberia)	JPL	TUE
	2152z	18 Oct	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote tuner Siberia)	JPL	FRI
	1838z	24 Oct	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote tuner Siberia)	JPL	THU
	2205z	24 Oct	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote tuner Siberia)	JPL	THU
4860// 6840	2020z	02 Oct	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) (Remote tuner Hong Kong)	JPL	WED
	1820z	03 Oct	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) (Remote tuner Finland)	JPL	THU
	0020z	04 Oct	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) (Remote tuner Hong Kong)	JPL	FRI
	1320z	04 Oct	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) (Remote tuner Hong Kong)	JPL	FRI
	1220z	06 Oct	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) (Remote tuner Hong Kong)	JPL	SUN
	1920z	06 Oct	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) (Remote tuner Hong Kong)	JPL	SUN
	2220z	06 Oct	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) (Remote tuner Hong Kong)	JPL	SUN
	1820z	08 Oct	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) (Remote tuner Hong Kong)	JPL	TUE
	2220z	10 Oct	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) (Remote tuner Hong Kong)	JPL	THU
	1120z	15 Oct	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) (Remote tuner Hong Kong)	JPL	TUE
	2020z	20 Oct	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) (Remote tuner Hong Kong)	JPL	SUN
	1920z	22 Oct	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) (Remote tuner Finland)	JPL	TUE
	2120z	23 Oct	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) (Remote tuner Hong Kong)	JPL	WED
	1920z	24 Oct	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) (Remote tuner Hong Kong)	JPL	FRI
5230//NRH	1858z	02 Oct	V DKG6 DKG6 DKG6 de 3A7D 3A7D	FN	WED
5230//7602	1006z	02 Oct	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	WED
	2019z	02 Oct	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	WED
(5230 only)	2205z	02 Oct	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	WED
	1436z	11 Oct	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	FRI

5230//7698	Note: New frequency for DA7D				
	0041z	14 Oct	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Siberia)	JPL	MON
5485//NRH	1240z	01 Oct	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	TUE
	1542z	01 Oct	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	TUE
	1939z	01 Oct	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	TUE
	1012z	02 Oct	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	WED
	2018z	02 Oct	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	WED
	2204z	02 Oct	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	WED
	1109z	03 Oct	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Finland)	JPL	THU
	1950z	03 Oct	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	THU
	2142z	03 Oct	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	THU
	1307z	04 Oct	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	FRI
	1800z	04 Oct	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	FRI
	1439z	05 Oct	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SAT
	1630z	05 Oct	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SAT
	2242z	05 Oct	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Finland)	JPL	SAT
	1216z	06 Oct	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SUN
	1919z	06 Oct	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SUN
	2211z	06 Oct	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SUN
	1819z	08 Oct	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	TUE
	2128z	08 Oct	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Finland)	JPL	TUE
	1758z	10 Oct	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	THU
	2208z	10 Oct	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	THU
	1029z	11 Oct	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	FRI
	1441z	11 Oct	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	FRI
	1254z	14 Oct	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	MON
	1339z	14 Oct	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Siberia)	JPL	MON
	2032z	14 Oct	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	MON
	1505z	15 Oct	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	TUE
	1809z	15 Oct	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Siberia)	JPL	TUE
	1941z	15 Oct	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	TUE
	2035z	16 Oct	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	WED
	1951z	17 Oct	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Siberia)	JPL	THU
	1212z	20 Oct	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Siberia)	JPL	SUN
	1703z	20 Oct	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SUN
	2019z	20 Oct	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SUN
	1120z	24 Oct	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Siberia)	JPL	THU
	1343z	24 Oct	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Siberia)	JPL	THU
	1842z	24 Oct	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Siberia)	JPL	THU
	2208z	24 Oct	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Siberia)	JPL	THU
5485//8580	Note: New frequency for ASDF - appears to have moved from 8570kHz				
	1237z	25 Oct	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Siberia)	JPL	FRI
	1456z	25 Oct	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	FRI
	1917z	25 Oct	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	FRI
	2129z	28 Oct	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Finland)	JPL	MON
5500//8110	0013z	04 Oct	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	FRI
5581//NRH	Note: New frequency for YUQW				
	1838z	22 Oct	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Finland)	JPL	TUE
	1933z	22 Oct	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Finland)	JPL	TUE
	2147z	23 Oct	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Siberia)	JPL	WED
5588//NRH	0932z	01 Oct	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	TUE
	1224z	01 Oct	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	TUE
	1013z	02 Oct	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	WED
	0945z	04 Oct	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	FRI
	1030z	16 Oct	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	WED
	1032z	21 Oct	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	MON
	1500z	25 Oct	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	FRI
5801//10180	1113z	03 Oct	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	THU
	1306z	04 Oct	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	FRI
	1828z	08 Oct	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	TUE
(5801 only)	2131z	08 Oct	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Finland)	JPL	TUE
	1035z	11 Oct	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	FRI
	1018z	14 Oct	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Siberia)	JPL	MON
	1255z	14 Oct	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	MON
	0058z	15 Oct	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Siberia)	JPL	TUE
	1127z	15 Oct	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Siberia)	JPL	TUE
	0200z	18 Oct	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Siberia)	JPL	FRI
	1118z	18 Oct	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Siberia)	JPL	FRI
	1210z	20 Oct	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Siberia)	JPL	SUN
	0931z	21 Oct	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Siberia)	JPL	MON
	0109z	22 Oct	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Siberia)	JPL	TUE
	0258z	22 Oct	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Siberia)	JPL	TUE

(In tfc – hand sent – horrible CW – 0258z) 2 BT GN BT CRRR 1139/ZD/..2/9EEEE BT CR NR .120 EEEE 1130/ZD/9427 NR 9462 AR QSL ? HR WK NR 43 GB (Return to R/S – 0300z)

1007z	22 Oct	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Siberia)	JPL	TUE
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(5801 only)	1903z	23 Oct	V DKG6 DKG6 DKG6 de 3A7D 3A7D	FN	WED
	0201z	23 Oct	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Siberia)	JPL	WED
(In chat – 0200z) HR WK NR 12 (Return to R/S – 0201z)					
(5801 only)	1046z	23 Oct	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Siberia)	JPL	WED
	2116z	23 Oct	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	WED
	1150z	25 Oct	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Siberia)	JPL	FRI
5801//7602	2134z	23 Oct	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Siberia)	JPL	WED
6701//NRH	Note: New frequency for this station!				
	1830z	08 Oct	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote tuner Finland)	JPL	TUE
	2130z	08 Oct	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote tuner Finland)	JPL	TUE
6753//NRH	Note: Known DRV8 frequency, but 1st time heard by this monitor				
	1025z	22 Oct	V H2FL (x3) DE DRV8 (x2) (Cont'd)) (Remote tuner Siberia)	JPL	TUE
6773//8040					
(8040 only)	0930z	01 Oct	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	TUE
	1007z	02 Oct	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	WED
(6773 only)	2202z	03 Oct	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote tuner Finland)	JPL	THU
(6773 only)	0016z	04 Oct	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	FRI
	0941z	04 Oct	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	FRI
	2239z	05 Oct	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SAT
(6773 only)	1019z	14 Oct	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote tuner Siberia)	JPL	MON
(6773 only)	2148z	18 Oct	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	FRI
(6773 only)	1030z	21 Oct	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	MON
(8040 only)	1108z	23 Oct	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	WED
(6773 only)	2151z	23 Oct	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote tuner Russia)	JPL	WED
(6773 only)	2211z	24 Oct	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote tuner Russia)	JPL	THU
6840//NRH	0020z	14 Oct	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) (Remote tuner Hong Kong)	JPL	MON
	1020z	14 Oct	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) (Remote tuner Siberia)	JPL	MON
	1120z	18 Oct	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) (Remote tuner Siberia)	JPL	FRI
	1120z	24 Oct	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) (Remote tuner Siberia)	JPL	THU
	1920z	27 Oct	VVV Q2M Q2M Q2M de NYZ NYZ	FN	SUN
	2320z	28 Oct	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) (Remote tuner Finland)	JPL	MON
6840//10640	0920z	01 Oct	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) (Remote tuner Hong Kong)	JPL	TUE
	1020z	02 Oct	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) (Remote tuner Hong Kong)	JPL	WED
	0120z	06 Oct	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) (Remote tuner Hong Kong)	JPL	SUN
	0220z	06 Oct	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) (Remote tuner Hong Kong)	JPL	SUN
	0320z	06 Oct	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) (Remote tuner Hong Kong)	JPL	SUN
(10640 only)	0220z	10 Oct	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) (Remote tuner Hong Kong)	JPL	THU
	0120z	11 Oct	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) (Remote tuner Hong Kong)	JPL	FRI
	0120z	15 Oct	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) (Remote tuner Hong Kong)	JPL	TUE
	0220z	16 Oct	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) (Remote tuner Hong Kong)	JPL	WED
	1020z	16 Oct	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) (Remote tuner Hong Kong)	JPL	WED
	1020z	21 Oct	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) (Remote tuner Hong Kong)	JPL	MON
	1020z	22 Oct	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) (Remote tuner Siberia)	JPL	TUE
7582//8110					
(8110 only)	0242z	01 Oct	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	TUE
	0929z	01 Oct	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	TUE
(7582 only)	1230z	01 Oct	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	TUE
	1010z	02 Oct	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	WED
	0942z	04 Oct	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	FRI
	0117z	06 Oct	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SUN
	0226z	06 Oct	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SUN
	0329z	06 Oct	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SUN
	0208z	10 Oct	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	THU
	0112z	11 Oct	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	FRI
(7582 only)	0033z	14 Oct	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	MON
(8110 only)	0600z	14 Oct	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	MON
	0227z	16 Oct	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	WED
	1028z	21 Oct	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	MON
	0033z	22 Oct	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	TUE
(In tfc) 0900/G06/8398 AR (0033z) VV UGT COMM BT 2417/0900/G06/8372 AR (0035z) (Return to R/S – 0037z)					
7602//NRH	1900z	01 Oct	V DKG6 DKG6 DKG6 de 3A7D 3A7D	FN	TUE
	1733z	06 Oct	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	SUN
	1507z	15 Oct	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Hong Kong)	JPL	TUE
	1905z	23 Oct	V DKG6 DKG6 DKG6 de 3A7D 3A7D	FN	WED
	1525z	25 Oct	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Siberia)	JPL	FRI
7740//NRH	0206z	23 Oct	V DP9J (x3) DE CQ (x2) (Cont'd) (Remote tuner Siberia)	JPL	WED
V DP9J (X3) DE CQ (x2) (Cont'd – 0206z) (Faulty round slip?) HR NIL SK GB (Cont'd – 0207z – Silent at 0208z)					

8570//NRH	Note: New frequency for ASDF - normally on 8750kHz (See also 5485//8580)				
1206z	25 Oct	V YUQW (x3) DE ASDF (x2) (Cont'd) (/ N/H)(Remote tuner Siberia)	JPL	FRI	
8750//10210					
(8750 only)	0927z	01 Oct	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Hong Kong)	JPL TUE	
(10210 only)	1012z	02 Oct	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Hong Kong)	JPL WED	
	1109z	03 Oct	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Hong Kong)	JPL THU	
	0018z	04 Oct	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Hong Kong)	JPL FRI	
	0938z	04 Oct	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Hong Kong)	JPL FRI	
(10210 only)	0118z	06 Oct	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Hong Kong)	JPL SUN	
(10210 only)	0219z	06 Oct	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Hong Kong)	JPL SUN	
(10210 only)	0328z	06 Oct	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Hong Kong)	JPL SUN	
(10210 only)	1038z	11 Oct	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Hong Kong)	JPL FRI	
(8750 only)	1025z	14 Oct	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Siberia)	JPL MON	
(10210 only)	0026z	14 Oct	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Hong Kong)	JPL MON	
	0100z	15 Oct	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Siberia)	JPL TUE	
(10210 only)	1125z	15 Oct	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Siberia)	JPL TUE	
	1031z	16 Oct	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Hong Kong)	JPL WED	
	0930z	21 Oct	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Siberia)	JPL MON	
(10210 only)	1026z	21 Oct	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Hong Kong)	JPL MON	
	0107z	22 Oct	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Siberia)	JPL TUE	
(8750 only)	1004z	22 Oct	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Siberia)	JPL TUE	
(10210 only)	0045z	22 Oct	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Hong Kong)	JPL TUE	
(10210 only)	0301z	22 Oct	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote tuner Siberia)	JPL TUE	
10180//NRH					
	0943z	01 Oct	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Finland)	JPL TUE	
	1237z	01 Oct	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Hong Kong)	JPL TUE	
	1006z	02 Oct	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Hong Kong)	JPL WED	
	0939z	04 Oct	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Hong Kong)	JPL FRI	
	1157z	06 Oct	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Finland)	JPL SUN	
	1213z	06 Oct	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Hong Kong)	JPL SUN	
	1123z	10 Oct	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Finland)	JPL THU	
	0624z	14 Oct	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Siberia)	JPL MON	
	1238z	16 Oct	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Siberia)	JPL WED	
	1148z	20 Oct	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Finland)	JPL SUN	
	1027z	21 Oct	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Hong Kong)	JPL MON	
	1235z	22 Oct	(In tfc) (Remote tuner Finland)	JPL TUE	
(In chat – 1235z) QSA 2 QSA ? HR 7G GA NR11/CCK CK 199 5. 7 (1236z - Silent)					
	1111z	24 Oct	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Siberia)	JPL THU	
	0300z	25 Oct	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote tuner Siberia)	JPL FRI	
(In tfc – 0300z) COMM/11.0/xz758/83/9425/9601 AR QSL ? HR WK NR 34 V HR SVC NR 0731100 RMKS 9427 TO 9995 BT COMM/11.0/XZ758/83/9425/9601 AR QSL ? HR WK NR 34 (Return to R/S – 0301z)					

M94 CW, MCW, partner station to V24 Virtually unheard in Europe so we rely on our American monitors
No reports

M97 CW, partner station to V30 10375kHz Starts 1453 - 1500z (Variable) .

Due to the poor reception of this signal in both the UK and Canada, GlobalTuners receivers at Hong Kong, Mojave Desert & Sydney - as well as the Twente SDR, were used frequently to confirm the msg detail.

Very little activity heard from this irregular station over the months of Sept & Oct. Made difficult by the need to use online receivers, it is possible that we may have missed a transmission or two, although most days were monitored.

The only report came from Guy (GD) who managed to catch the end of a transmission on Fri 25 Oct - the station ceasing at 1512z.

The good news is that the reception was made using the SDR at Twente, which means that we will soon be able to copy this station in the UK as winter advances.

Marker Beacons (MX MXI)

4508	1824z	04 Oct	MXS CW Beacon "V" (Cont'd)	(Remote tuner Russia)	JPL	FRI
5157	1340z	01 Sep	MXS CW Beacon "L" (Cont'd)	(Remote Tuner Finland)	JPL	SUN
	2035z	29 Sep	MSX CW Beacon "L" (Cont'd)	(Remote tuner Sweden)	JPL	SUN
<i>Note: Checked 6918, but N/H</i>						
6917	1349z	01 Sep	MXS CW Beacon "L" (Cont'd)	(Remote Tuner Finland)	JPL	SUN
	1445z	04 Oct	MXS CW Beacon "L" (Cont'd)	(Remote tuner Finland)	JPL	FRI
<i>Note: Checked 5157 but N/H</i>						
6918	1537z	29 Sep	MXS CW Beacon "L" (Cont'd)	(Remote tuner Finland)	JPL	SUN
	1555z	01 Oct	MXS CW Beacon "L" (Cont'd)	(Remote tuner Finland)	JPL	TUE
6928	2050z	08 Sep	MXS CW Beacon "V" (Cont'd)	(Remote Tuner Sweden)	JPL	SUN
	2337z	28 Sep	MXS CW Beacon "V" (Cont'd)	(Remote tuner Hong Finland)	JPL	SAT
	1536z	29 Sep	MXS CW Beacon "V" (Cont'd)	(Remote tuner Finland)	JPL	SUN

1555z	01 Oct	MXS CW Beacon "V" (Cont'd)	(Remote tuner Finland)	JPL	TUE
MX					
6916kHz	2149z	18/10 [Morse Letter Beacon L] Fair QRN3 QSB3	Spectre	FRI	
	1855z	19/10 [Morse Letter Beacon L] Fair QRN3 QSB3	Spectre	SAT	
Contributors: AB, AnonUS, BR, CB, DoK, ElmarE2Kde, FN, GD, HFD, Jan, JkC, JPL, MCO, PLdn, PoSW, RNGB, Spectre, tiNG					
Thank you all for your logs.					

HM01 MIXED MODE THE FULL HM01 SCHEDULE CAN BE FOUND IN THE CHARTS SECTION

To start we open with intercepts from the Cuban Desk and draw your attention to the HM01 Schedule in the Charts Section:

HM01 11435kHz 1600z 14/9 [44042 ????? 17762 21206 24542 56712] SAT
HM01 11435kHz 1600z 15/9 [44043 86137 17763 21207 24543 56713] SUN
HM01 11435kHz 1600z 16/9 [83381 22574 15441 50182 08444 51835] Delivery of 83381 is much slower than the other callups. MON
HM01 11435kHz 1600z 17/9 [83381 22574 15441 50182 08444 51835] Delivery of 83381 is much slower than the other callups. TUE
HM01 11435kHz 1600z 18/9 [83381 22574 15441 50182 08444 51835] Delivery of 83381 is much slower than the other callups. WED
HM01 11435kHz 1600z 19/9 [83381 22574 15441 50182 08444 51835] Delivery of 83381 is much slower than the other callups. THU Before the callups started "2" repeated 78 times then a slight pause and "2" repeated 28 times.
HM01 11435kHz 1600z 20/9 [83381 22574 15441 50182 08444 51835] Delivery of 83381 is much slower than the other callups.
HM01 11435kHz 1600z 21/9 [83381 22574 15441 50182 08444 51835] Delivery of 83381 is much slower than the other callups.
HM01 11435kHz 1600z 22/9 [56801 22574 15441 50182 08444 51835] Note first callup changed on this date. Also, final RDFT TX is cut short by the second round of callups.
HM01 10715kHz 2200z 22/9 [56801 22574 15441 50182 08444 51835] Stops mid-transmission at ~ 2255 and the Windows XP shutdown tune is heard a few seconds later
HM01 11530kHz 2300z 22/9 Carrier only in this time slot, unsurprising as they apparently shut their computer down at the end of the last hour!
HM01 11435kHz 1600z 23/9 [56801 22574 15441 50182 08444 51835] MON
HM01 11435kHz 1600z 24/9 [56801 22574 15441 50182 08444 51835] RDFT transmission for first callup suddenly simulcast with [83381 22574 15441 50182 08444 51835] (Note first callup is different.) original TX is then terminated leaving the usual 3 minute preamble of [83381 22574 15441 50182 08444 51835].
HM01 11435kHz 1600z 25/9 [56801 22574 15441 50182 08444 51835]. Note, last RDFT transmission no longer cut short by the second round of callups.
HM01 11435kHz 1600z 26/9 [56801 22574 15441 50182 08444 51835] THU
HM01 11435kHz 1600z 27/9 [83381 22574 15441 50182 08444 51835] FRI
HM01 11435kHz 1600z 28/9 [83381 22574 15441 50182 08444 51835] SAT
HM01 11530kHz 1700z 28/9 [83381 22574 15441 50182 08444 51835] SAT
HM01 11435kHz 1600z 29/9 [83381 22574 15441 50182 08444 51835] SUN
HM01 7554kHz 2000z 29/9 [83381 22574 15441 50182 08444 51835] Tx LSB mode. TX started with Uno (R7) then Uno (R2) then into HM01 callups SUN
HM01 8135kHz 2300z 29/9 In progress in LSB mode, unable to copy due to weak signal but definitely HM01.
HM01 11435kHz 1600z 30/9 [83381 22574 15441 50182 08444 51835] MON

HM01 11435kHz 1600z 1/10 [86063 22332 61631 14212 84083 70601] This schedule is back to the "old format" with a 3 minute pause before the callups start again. TUE
HM01 11435kHz 1600z 2/10 [86064 22333 61632 14213 84084 70602] WED
HM01 11435kHz 1600z 3/10 [86065 22334 61633 14214 84085 70603] THU
HM01 11435kHz 1600z 4/10 [86066 22335 61634 14215 84086 70604] FRI
HM01 11435kHz 1600z 5/10 [28231 22336 61635 14216 84087 70605] First callup transmitted 23280624.TXT, 1002 bytes. SAT
HM01 11435kHz 1600z 6/10 [28232 22337 61636 14217 15601 70606] New callup Position 5 transmitted 84211704.TXT 975 bytes. SUN
HM01 11435kHz 1600z 7/10 [28233 22338 61637 14218 15602 70607] MON
HM01 5930kHz 0600z 8/10 [28233 22338 61637 14218 15602 70607] TUE
HM01 5930kHz 0700z 8/10 [28233 22338 61637 14218 15602 70607] TUE
HM01 11435kHz 1600z 8/10 [83381 22574 15441 50182 08444 51835] A few false starts including Uno (R4) then Uno (R7) Note they have reverted to the callups from 30/9 and before. This recording loops continually. TUE
HM01 11435kHz 1600z 9/10 [28235 16632 34121 52633 15604 38052] New callups in positions 2,3,4 and 6. Positions 2 and 4 end in 2 indicating that yesterday's TX at 1600z was likely a mistake. 16632 = 85184641.txt 34121 = 64404856.txt 52632 = 64825450.txt 38052 = 20831555.txt WED
HM01 11435kHz 1600z 10/10 [28236 16633 34122 52632 15605 38053] False start with yesterday's callups. Stopped and started with the correct numbers after about 1 minute. Final RDFT TX cut short and the callups start again immediately. THU
HM01 11435kHz 1600z 11/10 [28236 16633 34122 52633 15605 38053] FRI
HM01 11435kHz 1600z 12/10 [28236 16633 34122 52633 15605 38053] SAT
HM01 11435kHz 1600z 13/10 [28236 16633 34122 52633 15605 38053] SUN
HM01 11435kHz 1600z 14/10 [00284 48752 34127 45452 83325 40263] MON 00284 = 45488660.txt 48752 = 86475408.txt 34127 = 64404856.txt 45452 = 32286770.txt 83325 = 62367048.txt 40263 = 27556377.txt Back to incrementing callups. Looks like they have jumped ahead too far. 34127 in position 3 should in theory be 34126 as 34122 has been in use since the 10th. MON
HM01 10340kHz 0600z 15/10 Very weak but SS/YL and Lead in tones definitely audible TUE
HM01 10340kHz 0700z 15/10 Very weak but SS/YL and Lead in tones definitely audible TUE
HM01 11435kHz 1600z 15/10 [00285 48753 07411 45453 83326 40264] New callup in position 3 07411 = 04204505.TXT TUE
HM01 11565kHz 0600z 17/10 [00286 48754 07412 45454 60811 40265] New callup in position 5 60811 = 77544410.TXT 981 bytes. THU
HM01 11435kHz 1600z 17/10 [00286 48755 07413 45455 60811 40266]
HM01 10715kHz 0600z 18/10 [51835 16871 22574 15441 51282 18444] Callups may not be 100% correct or in order. Very poor modulation and very weak signal. FRI
HM01 11435kHz 1600z 18/10 [00288 48755 07414 45456 60813 38061] New callup in position 6 38061 = 02245340.TXT 961 bytes. FRI
HM01 11435kHz 1600z 19/10 [06211 48757 07415 45457 60814 38062] New callup in position 1 06211 = 14771508.TXT 958 bytes. SAT
HM01 10345kHz 0600z 20/10 Quick check via Global Tuner in Canada, callup 60814 heard followed by RDFT. SUN
HM01 9330kHz 0700z 20/10 confirmed via Global Tuner in Canada, callup 60814 heard followed by RDFT. SUN
HM01 11635kHz 2100z 20/10 [56801 22574 15441 50182 08444 51835] Reverted to callups last heard on 26/9
HM01 11435kHz 1600z 21/10 [06212 48758 07416 45458 60815 38063] MON
HM01 11435kHz 1600z 22/10 [06213 27561 07417 11601 60816 38064] New callups in position 2 and 4 27561 = 82002627.txt 11601 = 53134324.TXT TUE
HM01 11435kHz 1600z 23/10 [06213 27561 07417 11601 60816 38064] WED
HM01 5855kHz 0500z 25/10 [06215 27563 21622 11602 85001 00481] FRI

HM01 11436kHz 1600z 25/10 [06216 27564 21623 11604 85002 00482] FRI Newly recorded callups positions 3, 5 and 5. 21623 = 80715008.txt 85002 = 26427133.txt 00482 = 70172122.txt
 HM01 11435kHz 1600z 26/10 [84851 27565 21624 11605 85003 00483] New callup position 1. 84851 = 80603514.TXT
 HM01 11435kHz 1600z 27/10 [84852 27566 21625 75631 85004 00484] New callup position 4. 75631 = 54333656.TXT

We move on to PoSW's observations from British soil, and an excellent representation indeed:

6-Sept-13, Friday:- 2158 UTC, 10,715 kHz, "56801 22574 15441 50182 08444 51835".
 Peaking S9 at two minutes to eleven in the evening UK time. I haven't bothered with HM01 since Sunday 25-August and the 5F groups are unchanged.

7-Sept-13, Saturday:- 0858 UTC, 12,120 kHz, "56801 22574 15441 50182 08444 51835"
 Strong FSK/RTTY station on close frequency making copy difficult.

13-Sept-13, Friday:- 2201 UTC, 10,715 kHz, must have started later than usual, call-up still in progress at one minute past the hour, "44041 86135 17761 21205 24541 56711". S9 to S9+, good audio,FSK signal on close frequency, data started 2203z.

15-Sept-13, Sunday:- 0659 UTC, 9,330 kHz, carrier only until well after 0659z, "44042 86136 17762 21206 24542 56712". All "one up" on Friday's 5Fs then. S9+, data at 0703z.
 0759 UTC - and 35 seconds, approx - 9,065 kHz, 5Fs as earlier, S9 with QSB.
 0859 UTC and 35s, 9,240 kHz, 5Fs as earlier, S8 with QSB.

22-Sept-13, Sunday:- 0658 UTC, 9,330 kHz, looks like an early start, was already in data mode two minutes before the hour, heard 5Fs "22574 15441 50182 08444 51835 83381" in between bursts of data transmission. S8 to S9, weak broadcast station heard underneath.

29-Sept-13, Sunday:- 0657 UTC, 10,345 kHz, expected HM01 to be in call-up mode on 9,330 kHz at this time but was in data mode on 10,345; heard 5F groups "08444 51835 83381". Vanished just after 0700 UTC, came up on 9,330, call-up started after 0701 with, "83381 22574 15441 50182 08444 51835". Data started after 0704 UTC. Was still on when checked at 0758 UTC, vanished at around 0802.

30-Sept-13, Monday:- 0559 UTC, 10,345 kHz, was in data mode one minute before the hour, presumably started early.

7-Oct-13, Monday:- 0559 UTC, 5,855 kHz - expected to be on 10,345 but was S9+ on 5,855. Starting up with, "28232 22337 61636 14217 15601 70606". Vanished after 0602z, "Ah" says I "A QSY to 10,345" - but not so, nothing heard on this frequency. Checked again at 0612z, HM01 was back on 5,855.

8-Oct-13, Tuesday:- no sign of HM01 this morning, checked 5,855 kHz at 0543 UTC, nothing heard and nothing heard at 0600 UTC on 10,345 - or 5,855 or 12,120.

9-Oct-13, Wednesday:- no sign of HM01 at 0545 UTC, expected to hear last minutes of 0500 sending, or at 0600 UTC on any of the frequencies likely to be in use. And the same goes for Thursday the 10th and Friday the 11th.

12-Oct-13, Saturday:- 0746 UTC, 13,435 kHz, HM01 in progress, 5Fs heard included, "15441 50182 08444".

13-Oct-13, Sunday:- 0716 UTC, 10,345 kHz - expected it to be on 9,330, transmission in progress.
 0759 UTC, 9,065 kHz, starting up, audio very low, difficult copy. Went into data mode after 0802 UTC.
 0859 UTC, 9,065 kHz - again. Starting up, low audio plus heterodyne from strong carrier on HF side. Had gone from 9,065 and relocated to 9,240 when checked again at 0918z.

19-Oct-13, Saturday:- 0859 UTC, 12,120 kHz, "00288 48756 07414 45456 60813 38061". S7 to S8 but audio low in relation to carrier strength. No sign of the RTTY signal which usually sits close to 12,120. HM01 seems to have given up on the 0500 and 0600 UTC transmissions on weekdays, nothing heard this past Monday to Friday when all expected frequencies checked at around 0545 and 0600 UTC.

0959 UTC, 12,180 kHz, 5Fs as earlier.

Others' logs:

September 2013:

5855kHz0500z	13/09[58118 86134 16188 21204 13248 37035 + data] Very strong	RNGB	FRI
7554kHz2000z	29/09 [83381 22574 15441 50182 08444 51835] LSB mode. TX started with Uno R7 then Uno R2 then into HM01 callups. This is a weekday M08a frequency.	Anon	SUN
8135kHz2300z	29/09 In progress in LSB mode, unable to copy due to weak signal but definitely HM01. This is a weekday M08a frequency.	Anon	SUN
9065kHz 0759z	15/09[44042 86136 17762 21206 24542 56712]0808z ContFair QRM1 QSB1 Repeated 6x5F groups until 0803z then alternating RDFT and single 5F group. Ceased monitoring 0808z	JkC	SUN
9155kHz1000z	30/09 very weak Signal via Web SDR Twente,NL	Elm	MON
9240kHz 0859z	15/09[44042 86136 17762 21206 24542 56712]0905z Cont Fair QRM2 QSB2 Repeated 6x5F groups until 0903z then alternating RDFT and single 5F group. Ceased monitoring 0905z	JkC	SUN
9240kHz0900z	30/09 Strong Signal via Web SDR Twente,NL	Elm	MON
9330kHz 0737z	15/09[I/P 44042 86136 17762 21206 24542 56712]0755z Fair QRM1 QSB1 Alternating RDFT and single 5F group.	JkC	SUN
10345 0612z	25/09[83381 2256415441 50182]	E	WED
10345 0605z	30/09[15441 50182 08444 518n5 22564]	E	MON

10715kHz 2200z	02/09[56801 22574 15441 50182 08444 51835] 2252z Fair QRN3 QSB3	Spectre,SH	MON
2200z	04/09[56801 22574 15441 50182 08444 51835] 2252z Fair QRN3 QSB3	Spectre, SH	WED
2200z	06/09 56801 22574 15441 50182 08444 51835] 2252z Fair QRN3 QSB3	Spectre	FRI
10715kHz2200z	15/09 Good	RR	SUN
10715kHz2158z	18/09[82281 22574 15441 50182 08444 51825 2200] sked started early, S8 with deep fades, low hummy modulation, cut 2255	HS	WED
With these logs Anon notes: The Cubans have been incrementing their callups in recent days abut today came up with a complete new set of callups. Note callup #1 matches the last 4 digits of its text file (8338) and is a smaller file than normal. I will save the analysis for the next NL			
10715kHz 2200z	20/09[83381 22574 15441 50182 08444 51835] QSA3, good audio, skipped preamble altogether first time around, after that normal format	HS	FRI
10715kHz2200z	25/09[56801 22574 15441 50182 08444 51835] QSA4	DanAR	WED
11435kHz1600z	14/09[44042 ????? 17762 21206 24542 56712]	Anon	SAT
1600z	15/09[44043 86137 17763 21207 24543 56713]	Anon	SUN
1600z	16/09[83381 22574 15441 50182 08444 51835]	Anon	MON
	83381 31188338.txt 22574 15441 30847867.TXT 50182 22017372.TXT 08444 81355132.TXT 51835 12863053.TXT Courtesy Anon		
11530kHz2308z	01/09[56801 22574 15441 50182 08444 51835] 2354z Fair QRN3 QSB3	Spectre	SUN
11530kHz1700z	03/09 see 16180kHz 2100z 03/09	PY4	TUE
11530kHz2256z	08/09	SH	SUN
11530 CUBA Numbers Station HM-01 broadcast started at 2256 with a strong carrier (excellent signal) at 2259 audio began with an RDFT data transmission followed by a single five digit number by a mechanical synthesized Spanish language voice and then the RDFT data transmission alternated with the voice until 2259 GMT at which time the mechanical syntheses Spanish female voice began the preamble being a series of five digit number groups. This continued until 2302 when there was an RDFT data transmission followed by a single five digit number by a mechanical synthesized Spanish language voice and then followed the normal pattern of an RDFT data transmission alternated with the voice. Sunday 9/8/13. Usually HM-01 broadcasts start with voice but not today, RDFT kicked off their broadcast. Interesting. -Steve			
11530kHz1700z	15/09 Fair	RR	SUN
First two minutes five figure groups in SS into new HMO1 format with one group then digital mode.			
With these logs Anon notes:			
11635kHz2059z	02/09	SH	MON
11635 CUBA Numbers Station HM-01 broadcast in progress at .2059 with preamble consisting five digit numbers in Spanish by a female synthesized mechanical voice which continued until 2103 when there was an RDFT data broadcast followed by single five digit Spanish numbers group alternating with RDFT excellent with under modulated) audio. At 2129 RDFT ends and Preamble starts again with no silent period. At 2133 RDFT alternating with single five digit number groups starts again. Tuned out 2035. Monday 9/2/13-Steve			
11635kHz2059z	08/09	SH	SUN
11635 CUBA Numbers Station HM-01 broadcast started at 2059 GMT with preamble being a series of five digit numbers in Spanish my a mechanical synthesized female voice which continued until 2102 GMT at which time there was an RDFT data transmission followed by a single five digit number by the mechanical Spanish female voice, and then the RDFT and single five digit number alternated until 2129 when there was approximately a thirty second loss of signal and carrier and when the broadcast resumed it as back into the preamble which continued until 2131 at which time there was another loss of signal-carrier for about a minute and when the signal returned there was an RDFT data transmission in progress. Sunday 9/8/13 -Steve			
11635kHz1853z	13/09	SH	FRI
11635 CUBA Numbers Station HM-01 in progress at 1853 until 1856 sign off wth weak signal. Female synthesized voice in Spanish with a five digit number in between RDFT data transmissions Friday 9/13/13-Steve			
11635kHz1759z	15/09 Fair	RR	SUN
Up early. First two minutes five figure groups in SS into new HM01 format with one group then digital mode.			
11635kHz 2100z	15/09 Fair	RR	SUN
Better than 1759z. First two minutes five figure groups in SS into HM01 format with one group then digital mode.			
11635kHz2100z	18/09 S8 carrier but very low modulation, barely audible	HS, SH	WED
11635 CUBA Numbers Station HM-01, in progress at 2118-2124 Female synthesized voice in Spanish with a five digit number in between RDFT data transmissions. G-Good Excellent signal, under-modulated voice audio and interference from SWBC station. Checked all other known HM-01 frequencies and nothing else found. Wednesday 9/18/13			
11635kHz 2100z	20/09[83381 22574 15441 50182 08444 51835] QSA3, good audio, "new format"	HS	FRI

Hugh writes:

Once again Friday, there was no 2300 sked that I could find.

The "new format" is strange, and I don't know yet if it would be a real HM01a or just more Cuban strangeness. Here's what happened Friday afternoon:

2057 carrier up on 11635
 2100 circuit noise increases
 2102 voice comes up in progress, rptd preamble 83381 22574 15441 50182
 08444 51835
 2107 RDFT tuning tones, then alt voice & RDFT
 2115 rptd same preamble
 2119 RDFT tuning tones, then alt voice & RDFT [very low QRM or crosstalk
 - female singing voice]
 2151 rptd same preamble
 2154 RDFT tuning tones, then alt voice & RDFT
 2156 cut program, drop carrier

Sometime after 2156: carrier up on 10715
 2200 program comes up in progress with alt voice & RDFT, NO preamble
 2226 rpt preamble 83381 22574 15441 50182 08444 51835
 2230 RDFT tuning tones, then alt voice & RDFT
 2256 Pgm cut, drop carrier

So what we have is a completely strange 2100 slot, then 2200 coming up about where 11635 would be had it still been on, but then running it right up until the usual time where the "old format" would stop and repeat the whole program. After that, everything was like what we're used to.

The noise on the carrier is weird. It is NOT power supply hum. It sounds more like crosstalk. Several times in the 2100 slot a female singing voice could be heard using a classical style vibrato. The rest of the time, it sounds like a program being rolled off around 100 Hz.

11635kHz1836z	23/09	SH	MON
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11635 CUBA Numbers Station HM-01 in progress at 1836-1840 Female synthesized voice in Spanish alternating with a five digit number alternating in between data transmissions. Excellent but under-modulated signal.
 Also checked all other known HM-01 freqs and nothing found. Monday 9/23/13 -Steve

16180kHz2100z	03/09	PY4, Spectre	TUE
The same numbers and files as on 31/08 ! voice > RDFT encrypted file (decoded with DIGTRX) 56801 > 31718600.TXT 467 bytes 22574 > 56073417.TXT 998 bytes 15441 > 30847867.TXT 980 bytes 50182 > 22017372.TXT 987 bytes 08444 > 81355132.TXT 987 bytes 51835 > 12863053.TXT 976 bytes			
16180kHz 2100z	05/09[56801 22574 15441 50182 08444 51835] 2152z Fair QRN3 QSB3	Spectre	THU
16180kHz2152z	26/09 QSA3 In progress, good audio, copied 56801 22574, carrier was cut at 2156	HS, PP5	THU
17480kHz 2200z	03/09[56801 22574 15441 50182 08444 51835] 2252z Weak QRN3 QSB3	Spectre	TUE
17480kHz2200z	07/09[56801 22574 15441 50182 08444 51825] Good, low modulation, cut 2256	HS	SAT
17480kHz2202z	17/09 i/pFair First 2-3 minutes five figure groups in SS then into new HM01 format with one group then digital mode. Good copy.	RR, HS	TUE
17480kHz2200z	19/09[83381 22574 15441 50182 08444 71835] QSA2	DanAR, RR	THU
17480kHz2200z	21/09 Strong	RR	SAT
17480kHz2157z	26/09 QSA4 2200 slot started early & in progress, strong carrier with 60-Hz hum, fading, good audio, finally cycled into preamble 56801 22574 15441 50182 08444 51835 at 2219	HS	THU
17480kHz2200z	17/10[45455 60812 40266 00287 48755 07413] QSA2	DanAR, SH	THU
17540kHz2300z	31/08 [51835 56801 22574 15441 50182 08444]QSA2 Caught in progress at 23:40z ; sending number msg and data until 23:50z. Then sent the six numbers preamble until 23:54z. Come back to normal transmission to the end at 23:56z	DanAR	SAT
17540kHz2256z	07/09[56801 22574 15441 50182 08444 518?5] Fair, began 2300 sked at 2256	HS	SAT
17540kHz2256z	14/09	SH	SAT
17540 CUBA Numbers Station HM-01 2255:39 RDFT transmission with no voice on and off until 2259:35 at which time preamble groups of five digit numbers in Spanish by synthesized female voice. This transitiioned into RDFT data transmission and alternating with Synthesized Female Voice in Spanish. Good-Excellent signal, Broadcast ended at 2356:34. Saturday 9-15-13			
17540kHz2300z	21/09 Strong	RR, PP5	SAT

October2013:

A new set of callups for HM01 as follows. All txt files unremarkable around 1000 bytes in size with random hex numbers 00-FF (0 to 254)

5855kHz1000z	07/10 Strong	RR	MON
5855kHz1000z	13/10 strong	RR	SUN
5930kHz0600z	08/10[28233 22338 61637 14218 15602 70607]	Anon	TUE
5930kHz0700z	08/10[28233 22338 61637 14218 15602 70607]	Anon	TUE
7980kHz0700z	10/10	AK	THU
7980kHz0800z	10/10	AK	THU
9155kHz1000z	13/10 strong	RR	SUN
9155kHz1018z	27/10[in progress]	tiNG	SUN
9240kHz0933z	27/10 [in progress] QSA3	tiNG	SUN
10345kHz0605z	06/10[15440 50182 08444]	E	FRI
10715kHz2200z	09/10[28235 16632 34121 52632 15604 38052] QSA3	DanAR	WED
10715kHz 2200z	14/10 strong	RR	MON
10715kHz 2200z	16/10 fair	RR	WED
10715kHz2200z	20/10[56801 22574 15441 50182 08444 51835] QSA2	DanAR	SUN
10715kHz2200z	23/10[27562 21621 11602 60817 38065 06214] QSA2	DanAR	WED
10715kHz 2200z	27/10 [84852 27566 21625 75631 85004 00484] 2254z Fair QRN2 QSB2	Spectre	SUN
10715kHz2200z	28/10[84853 27567 21626 75632 85005 00485] QSA2	DanAR	MON
10715kHz2200z	30/10[84855 17622 50551 75634 85007 12832] QSA2 QSB1	DanAR	WED
11435kHz1600z	01/10[86063 22332 61631 14212 84083 70601]	Anon	TUE
86063 = 63571053.txt 22332 = 84644680.txt 61631 = 60286812.txt 14212 = 00577157.txt 84083 = 81727037.txt 70601 = 01115814.txt			
11435kHz1600z	05/10[28231 22336 61635 14216 84087 70605] First callup transmitted 23280624.TXT 1002 bytes of random hex values.	Anon	SAT
11435kHz1600z	06/10[28232 22337 61636 14217 15601 70606] New callup in position 5 transmitted 84211704.TXT 975 bytes.	Anon	SUN
11435kHz1600z	15/10[00285 48753 07411 45453 83326 40264] New callup in position 3 07411 = 04204505.TXT	Anon	MON
11435kHz1639z	27/10 RDFT data transmission alternating with Spanish language synthesized voice with five digit numbers .	SH	SUN
I have noticed a hum that dissipates over several minutes until everything sounds normal. Looking at this on the SDR this morning it appears that maybe it is their transmitter warming up as the carrier frequency shifts about 30Hz over time. Probably a good indication that the transmitter is not being used for a TX in the previous hour.			
11530kHz2314z	11/10 ip strong	RR	FRI
11530kHz2304z	13/10		
11530 CUBA Numbers Station HM-01 tuned in broadcast in progress at 2304 with an RDFT data transmission alternating with a single five digit number by a synthesized Spanish language voice Re-checked at 2317 and same thing in progress heard both RDFT and voice. Sunday 13 Oct 2013-Steve		SH	SUN
11530kHz1718z	27/10		
HM-01 RDFT data transmission alternating with Spanish language synthesized voice with five digit numbers. Silence with carrier but no audio beginning at 1726 and ending at 1728 with the beginning of the preamble consisting of a series of five digit numbers in Spanish language by a synthesized voice.Good-excellent signal with slightly under modulated/distorted audio		SH	SUN
11530kHz 2300z	27/10 [84852 27566 21625 75631 85004 00484] 2354z Fair QRN3 QSB3	Spectre	SUN
11635kHz2100z	04/10	SH	FRI
11635 CUBA Numbers Station HM-01 tuned in at 2124 RDFT in progress, voice not heard just silence starting at 2125. Silence ended at 2128 with preamble consisting of female synthesized voice with five digit number groups in Spanish. Preamble ended at 2132 followed by RDFT data transmission alternating with a			

Female synthesized voice in Spanish with a five digit number in between the RDFT data transmissions. Stopped listening at 2134. Good to excellent signal strength with under modulated audio on Friday 10/4/13-Steve

11635kHz2100z	06/10	SH	SU*N
11635 CUBA Numbers Station HM-01 Tune in to broadcast in progress 2100 with preamble consisting of a series of five digit numbers in Spanish by a female synthesized voice. This was followed at 2102 with an RDFT data transmission followed by a single five digit number in Spanish by the female synthesized voice followed by the successive RDFT transmissions alternating with the voice. Stopped listening 2119. Excellent signal with under-modulated audio. Sunday 10-6-13			
11635kHz2100z	16/10 fair	RR	WED
11635kHz 2100z 27/10	[84852 27566 21625 75631 85004 00484] 2154z Weak BCQRM3 QSB3	Spectre	SUN
13435kHz0734z	03/10[08444 51835]	E	TUE
16180kHz2100z	01/10[86063 22332 61631 14212 84083 70601] QSA4	DanAR	TUE
16180kHz2100z	08/10[28234 16631 61638 52631 15603 38051] QSA2	DanAR	TUE
16180kHz2148z	12/10 ip fair	RR	SAT
17480kHz2204z	08/10 i/p Strong	RR	TUE
17480kHz2200z	10/10 Strong	RR	THU
17480kHz2200z	12/10 very strong	RR	SAT
17480kHz2200z	15/10[45453 83326 40264 00285 48753 07411] QSA3	DanAR, RR	TUE
17540kHz2300z	12/10[28236 16633 34122 52633 15605 38053] QSA3	DanAR , RR	SAT
17540kHz2300z	26/10[84851 27565 21624 11605 85003 00483] QSA3	DanAR	SAT

VOICE STATIONS

E06

RNGB opens E06 this newsletter and then leads on to PoSW's take on the schedules via others logs:

E06 September log:

Thurs 5th	06:00	14830	'354' 278 100 12439 63098 26499 09578 50180.....92346
Friday 6th	21:30	5197	'634' 796 15 52781 92012 92371 28391 00283.....28123
Weds 11th	19:20	4588	'218' 00000
Sun 15th	11:20	7564	'218' 00000
	12:20	6853	'218' 00000
Thurs 19th	20:30	5186	'891' 352 15 63821 28394 03723 84921 23912.....26641

E06 October log:

Thurs 3rd	20:30	5186	'891' 762 15 89201 00283 92102 92012 84637 .....30801
Friday 4th	06:00	16320	'186' 953 101 71303 61416 24139 73842.....60089
	07:00	18210	'186' 953 101 71303 61416 24139 73842.....60089
Weds 9th	19:20	4588	'218' 00000

Other's Logs

September2013:

5197kHz2037z	06/09 [Test Transmission] 2038z Fair QRN3 QSB3	Spectre	FRI
2130z	06/09[634 634 796 15 52781 ... 28123 796 15 00000] 2136z Strong	AJS, Spectre	FRI
2130z	20/09[664 756 15 52781 nnnnn 756 15 00000(s)] Weak, QSB3 to nil	PLdn	FRI
E06 5197kHz 2130z 06/09 Transcript:			
634 796 15			
52781 92012 92371 28391 00283			
93123 93741 20312 29978 23411			
53991 28312 23112 23021 28123			
796 15 00000 Courtesy Spectre			
14830kHz0603z	05/09 In Progress [354 278 100 12439 ... 92346 278 100 00000] 0621z Fair	AJS	THU

October2013:

5186kHz 2030z	03/10 [891 762 15 89201 ... 30801 762 15 00000(s)] 2037z Fair QRN3 QSB2	Spectre	THU
1938z	17/10 [01234 ... 891 00000(s) (Test Count)] 1939z Fair QRN3 QSB3	Spectre	THU
1946z	17/10 [12345 (Test Count)] 1947z Fair QRN3 QSB3	Spectre	THU
2032z	17/10 [891 762 15 89201 00283 92102 92012 (QRT After 4th Group) 2035z Fair QRN3 QSB3	Spectre	THU

(Note, The E06 17/10 2032z transmission was an anti-climax after a big build up of several unusual test transmissions, then cutting off the main message transmission just after 4 groups. What were they thinking.)

E06 5186kHz 2030z 03/10 Transcript:
891 762 15
89201 00283 92102 92012 84637
64012 34752 99401 04821 45673
02341 03719 04829 00102 30801
762 15 00000 *Courtesy Spectre*

5197kHz2130z	04/10[634 971 15 37982 ... 10231 971 15 00000(s)] 2137z Fair QRN3 QSB3	Spectre, PLdn	FRI
2036z	18/10[01234 (Test Count)] 2037z Fair QRN3 QSB3	Spectre	FRI
2130z	18/10[634 971 15 37982 ... 10231 971 15 00000(s)] 2137z Fair QRN3 QSB3	Spectre, PLdn	FRI

E06 5197kHz 2130z 04/18/10 Transcript:
634 971 15
37982 03912 00478 92183 03915
74821 48365 93223 94088 03121
94038 84523 38912 93741 10231
971 15 00000 *Courtesy Spectre*

16320kHz0600z	04/10[186 953 101 71303 ... 60089 953 101 00000] Very strong signal, moderate noise	FR	FRI
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186 953 101
71303 61416 24139 73842 48309 92947 15375 12279 88645 94667
95542 27891 25227 93523 86269 47254 68175 26332 77669 26095
96879 68827 17330 21956 72076 64802 99782 60303 60135 16291
61152 26513 86737 20721 08662 32172 62139 65972 39699 29137
45206 19290 30115 69779 38396 70979 96447 36863 30901 18823
61762 91490 32107 04156 79789 12545 62578 35548 97053 26081
94754 61006 57676 48092 60534 74665 80542 89095 67942 68876
63520 93967 94071 67650 94413 15474 46476 02385 73344 44926
10211 15810 76250 48410 22703 05101 14176 82009 43646 40084
68062 84477 12096 17477 03700 70784 07963 37104 96557 74987
60089 60089 953 101 00000 *Courtesy FR*

PoSW's logs make mention of the traits of certain transmissions as well as offering analysis of other transmissions not stated above:

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

5-Sept-13:- 5,186 kHz, missed the call-up, just tuned in in time to hear DK/GC "352 352 15 15". Good audio, no unpleasant "rasping" noise. Has moved from 5,948 kHz used in the summer months which was always rendered almost unreadable by a BC station 2 kHz higher.

19-Sept-13:- 5,186 kHz, call "891", DK/GC "352 352 15 15".

3-Oct-13:- 5,186 kHz, call "891", DK/GC "762 762 15 15", the distorted audio is back, must all be for a purpose - but what?

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

6-Sept-13:- 5,197 kHz, call "634", DK/GC "796 796 15 15", S9 with good audio.

20-Sept-13:- 5,197 kHz, call-up had started when tuned in just after 2129 UTC, "634" and "796 796 15 15", strong signal with good audio.

4-Oct-13:- 5,197 kHz, a very short call-up, only heard a single "634" before going to DK/GC "971 971 15 15" and into 5F groups, all done just after 2133 UTC. Had distortion on the audio as with yesterday's 2030z sending.

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

5-Sept-13:- 0500 UTC, 12,210 kHz, calling "354", DK/GC "278 278 100 100".

0600 UTC, 14,830 kHz, second sending, 7 AM UK time, both transmissions S7 to S8.

6-Sept-13, Friday:- next day repeats, both 5 kHz up on yesterday, 0500 UTC 12,215 kHz and 0600 UTC, 14,835 kHz.

19-Sept-13:- 0500 UTC, 12,210 kHz, "354" and "278 278 100 100", S6.

0600 UTC, 14,830 kHz, second sending.

I think this schedule shifts by one hour to 0600 + 0700 UTC in October. Presumably this is for the convenience of the intended recipient of this schedule who is located in some part of the world where there has been a seasonal change in the clocks. Not the UK then, we are still on summertime until the last weekend of October.

4-Oct-13, Friday - forgot to monitor this schedule yesterday! - 0600 UTC, 16,320 kHz, "next day repeat", call "186", DK/GC "953 953 101 101", good signal up to S8.

Probably a second sending at 0700 UTC on something like 18,210 kHz.

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

11-Sept-13:- 1920 UTC, or rather about 50 seconds before, 4,588 kHz, "218 218 218 00000". S9 signal, had that unpleasant "rasping" noise, for want of a better description, on the speech.

2019 UTC, just after, another early start, 4,060 kHz, second sending, also with rough audio, strong "XJT" on LF side, same frequencies as in March and April.

9-Oct-13:- 1920 UTC, 4,588 kHz, "218 218 218 00000".

2020 UTC, 4,060 kHz, second sending, both with good audio.

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

15-Sept-13:- 1119 UTC, 7,564 kHz, started well before 1120 UTC, “218 218 218 00000”.

Very weak signal but reasonably clear copy, could tell that the “rasping” noise on the speech was present.

1219 UTC, 6,853 kHz, early start again, second sending, very weak signal. These two frequencies were used in March and April of this year.

13-Oct-13:- 1120 UTC, 7,564 kHz, “218 218 218 00000”, weak but clear copy in USB mode, good audio.

1220 UTC, 6,853 kHz, second sending very weak, only just readable.

E07

We open with PoSW’s observations and analysis of E07:

Sunday + Wednesday Schedule, 1700 UTC Start:-

8-Sept-13, Sunday:- 1700 UTC, 13,527 kHz, S9 carrier but audio low, could just resolve the “000” of a two – minute “no message” transmission. Single Letter Transmission cluster on very close frequency, “P” the strongest.

1720 UTC, 12,227 kHz, second sending, much better audio, “526 526 526 000”.

11-Sept-13, Wednesday:- 1700 UTC, 13,527 kHz, “526 526 526 000”, audio low but readable, SLT “P” strong, also interference from a swept carrier.

1720 UTC, 12,227 kHz, second sending, S9+ with reasonable audio.

15-Sept-13, Sunday:- 1700 UTC, 13,527 kHz, “526 526 526 000”.

22-Sept-13, Sunday:- tuned into 12,227 kHz at 1720 UTC expecting to hear the start of the second sending, but nothing heard. Turns out there was a message with a higher group count than usual this evening:-

1721 UTC, 13,527 kHz, the frequency for the first sending still active with 5F groups. S9+, audio somewhat low. Ended a couple of minutes later with “000 000” and cut carrier. Interference from a swept carrier, SLT “P” strong on a close frequency.

1728 UTC, running late, 12,227 kHz, “526 526 526 1”, DK/GC “847 204” x 2. Must be the longest message for a while. S9+, better audio than the first sending.

1756 UTC, 10,627 kHz, third sending, strong signal with reasonable audio.

25-Sept-13, Wednesday:- 1700 UTC, 13,527 kHz, “526 526 526 1”, DK/GC “847 204” x 2, that long message again. S9+, reasonable audio,

interference from the “sweeper”, as always,

and the SLT cluster with “P” the strongest.

1728 UTC, 12,227 kHz, and 1756 UTC, 10,627 kHz, repeat transmissions, both S9+.

2-Oct-13, Wednesday:- 1700 UTC, 13,376 kHz, “317 317 317 000”, strong signal.

1720 UTC, 12,176 kHz, second sending, S9+.

6-Oct-13, Sunday:- 1700 UTC, 13,376 kHz, “317 317 317 1”, DK/GC “2401 109” x 2.

S9+ carrier, audio low but readable.

1720 UTC, 12,176 kHz, second sending, also S9+ with audio low in relation to carrier strength.

1740 UTC, 10,776 kHz, third sending, S9+, audio comments as above.

13-Oct-13, Sunday:- 1700 UTC, 13,376 kHz and 1720 UTC, 12,176 kHz, both S9+ with reasonable audio, “317 317 317 000”.

Monday + Wednesday Schedule, 1900 UTC Start:-

4-Sept-13, Wednesday:- 1900 UTC, 12,108 kHz, “172 172 172 000”, strong BC station on 12,110.

1920 UTC, 10,708 kHz, second sending, S9+.

11-Sept-13, Wednesday:- 1900 UTC, 12,108 kHz, “172 172 172 000”, BC interference.

16-Sept-13, Monday:- 1900 UTC, 12,108 kHz, calling “172 172 172 1” for a full message, DC/GC obscured by broadcast station interference.

1920 UTC, 10,708 kHz second sending, much better, DK/GC heard as “971 47” x 2.

1940 UTC, 9,208 kHz, third sending, S9+.

23-Sept-13, Monday:- 1920 UTC, 10,708 kHz, “172 172 172 000”.

7-Oct-13, Monday:- 1900 UTC, 10,243 kHz, “229 229 229 000”. S9+ with unusually good audio.

1920 UTC, 9,243 kHz, second sending, S9+, audio not far short of “excellent”!

9-Oct-13, Wednesday:- 1900 UTC, 10,243 kHz, “229 229 229 000”, S9+, good audio.

Thursday Schedule, 2010 UTC Start:-

5-Sept-13:- 2010 UTC, 9,387 kHz, “358 358 358 000”, suffering from a strong broadcast station on 9,390.

2030 UTC, 7,526 kHz, second sending, S9 signal on a clear frequency.

12-Sept-13:- 2010 UTC, 9,387 kHz, “358 358 358 000”, BC interference, reduced by using the receiver in LSB mode.

2030 UTC, 7,526 kHz, second sending.

26-Sept-13:- 2010 UTC, 9,387 kHz, and 2030 UTC, 7,526 kHz, “358 358 358 000”.

3-Oct-13:- 2010 UTC, 7,516 kHz, “584 584 584 000”, S9 with good audio.

2030 UTC, 5,836 kHz, second sending, S9+, good audio, better than most E07 transmissions.

10-Oct-13:- 2010 UTC, 7,516 kHz, “584 584 584 000”, S9, good audio.

RNGB offers:

E07 September log:

Sun 1st	17:00	13527	'526' 000
	17:20	12227	'526' 000
Mon 2nd	19:00	12108	'172' 000
Weds 4th	19:00	12108	'172' 000
Thurs 12th	20:10	9387	'558' 000
Thurs 19th	20:30	7526	'358' 000
Weds 25th	17:00	13527	'526' 1 847 204 04463 82266 13339.....
	19:20	10708	'172' 1 811 16 07318 69253 19531 93581.....47555

E07 October log:

Weds 2nd	17:00	13376	'317' 000
Sun 6th	17:00	13376	'317' 1 2401 109 91598 34086 83399.....83823
	17:40	10776	'317' 1 2401 109 91598 34086 83399.....83823
Weds 9th	19:20	9243	'229' 000
Weds 23rd	17:00	13376	'317' 000
Mon 28th	19:20	9243	'229' 1 561 63 40501 81272 28675 55674.....
Weds 30th	19:00	10243	'229' 1 561 63 40501 81272 28675 55674.....

Others' Logs:

September 2013:

10627kHz1756z	22/09[526X3 1 847 204.....000 000]1819z S7	M8	SUN
10690kHz1756z	25/09[526x3 1 very weak.....000 000]1719z	M8	WED
10708kHz1920z	02/09[172 172 172 000] via Twente online Rx 1922z Fair QRN3	AJS	MON
1920z	04/09[172 R3x 000]1922z Strong QRM1 QSB1	JkC, AJS	WED
1920z	09/09[172x3 00000.....]1922z S9 QRM	M8	MON
1920z	11/09[172 000] Weak audio, Very strong carrier	(2m11s) PLdn	WED
1920z	18/09[172x3 000.....]1922z S6	M8	WED
1920z	23/09[172x3 000.....]1922z S3	M8	MON
1920z	25/09[172x3 000]1922z very weak	M8	WED
12108kHz1900z	02/09[172 000] Strong audio and carrier	(2m13s) PLdn	MON
1900z	04/09[172 R3x 000]1902z Weak QRM4 QSB1	JkC	WED
1900z	09/09[172x3 00000.....]1902z S2 QRM	M8	MON
1900z	23/09[172x3 000.....]1902z S1	M8	MON
12227kHz1720z	01/09[526x3 000.....]1722z S9	M8	SUN
1720z	08/09[526 000] Very weak audio, strong carrier	(2m11s) PLdn	SUN
1720z	18/09[526x3 000.....]1722z S5	M8	WED
1728z	22/09[526x3 1 847 204.....000 000]1751z S7	M8	SUN
1728z	25/09[526x3 1 very weak.....000 000]1751z	M8	WED
13527kHz1700z	01/09[526x3 000.....]1702z S9	M8	SUN
1700z	15/09[526x3 000.....]1702z S1	M8	SUN
1700z	22/09 526x3 1 847 204.....000 000]1722z S6	M8	SUN

October 2013:

7943kHz1940z	14/10[229 1 818 80 71157 ... 17724 000 000] Strong and noisy	(10m34s) PLdn, JkC	MON
	<p>E07 10243kHz/9243kHz/7943kHz 1900z/1920z/1940z 14/10 229 1 819 80 71157 65303 32160 50186 40862 42748 86568 82105 03494 76769 47125 72632 00986 57859 72592 68248 62801 69682 89026 05088 43903 89191 62719 09258 46219 10232 35840 35277 28300 52401 36347 30382 31628 57799 55894 57551 76072 54684 79334 00894 82231 63062 92467 54268 77547 41094 27075 81179 55545 21973 38077 90099 15457 63487 81996 49897 38987 12653 93105 71325 43303 34413 45883 59483 51216 70636 64697 39158 69152 43391 82550 66940 61777 02075 21078 62385 56093 86681 02105 17724 000 000 <i>Courtesy JkC</i></p>		
1940z	23/10[229 1 357 62 73057 ... 22676 000] Fair and noisy	(8m52s) PLdn	WED
9243kHz1920z	02/10[229 000] Fair, QRN3	PLdn	WED
1920z	07/10[229 000] Strong	(2m13s) Spectre, PLdn	MON
1920z	14/10[229 1 818 80 71157 ... 17724 000 000] Weak and very noisy	(10m34s) PLdn, JkC	MON
10243kHz1900z	07/10[229 000] Strong Signal via Web SDR Twente,NL	(2m13s) Elm, PLdn	MON
1900z	14/10[229 1 818 80 71157 ... 17724 000 000] Weak and very noisy	(10m34s) PLdn, JkC	MON
12176kHz1720z	13/10[317x3 000.....]1722z S9	M8	SUN
1720z	16/10 Noisy carrier only	PLdn	WED
1720z	20/10[317x3 000.....]1722z S9+20	M8	SUN
1720z	27/10[317 000] Weak audio with strong, noisy carrier	(2m13s) PLdn, tiNG	SUN
13376kHz1700z	13/10[317x3 000.....]1702z S9	M8	SUN
1700z	16/10 [000] Very weak and noisy	PLdn	WED
1700z	20/10[317x3 000.....]1702z S9+20	M8	SUN
1700z	27/10[317 000] Weak and noisy	(2m13s) PLdn, tiNG	SUN

E07a

PoSW's observations to start:

Wednesday E07a SSB Schedule, 2000 UTC Start:-

4-Sept-13:- 2000 UTC, 8,173 kHz, "147 147 147 000", S9+ SSB signal.

2020 UTC, 7,473 kHz, second sending, also S9+.

11-Sept-13:- 2000 UTC, 8,173 kHz, "147 147 147 000", S9+.

25-Sept-13:- 2000 UTC, 8,173 kHz, "147 147 147 1 69693" so a "full message". DK/GC "7008 56" x 2.

2020 UTC, 7,473 kHz, and 2040 UTC, 5,773 kHz, repeat transmissions, all S9+ SSB signals.

October sees a change to a trio of lower frequencies which will be in use for the next six months:-

2-Oct-13:- 2000 UTC, 5,864 kHz, and a full message, "815 815 815 1 39288", DK/GC "3631 92" x 2. S9+ SSB signal.

2020 UTC, 5,164 kHz, second sending, speech sounded distorted at times.

2040 UTC, 4,564 kHz, third sending, also sounded distorted.

Saturday E07a SSB Schedule, 0800 UTC Start:-

7-Sept-13:- 0800 UTC, 11,153 kHz, "114 114 114 000". Good SSB signal.

0820 UTC, 12,153 kHz, second sending, same frequencies as in September last year, third sending at 0840 UTC in event of a "full message" should be 13,453 kHz.

14-Sept-13:- 0800 UTC, 11,153 kHz, "114 114 114 000", S9+, unusually strong.

0820 UTC, 12,153 kHz, second sending, much weaker.

21-Sept-13:- 0800 UTC, 11,153 kHz, "114 114 114 000", strong SSB signal.

28-Sept-13:- 0800 UTC, 11,153 kHz, a "full message" this morning, "114 114 114 1 35653".

DK/GC "6936 70" x 2.

0820 UTC, 12,153 kHz, second sending, strong signal.

0840 UTC, 13,453 kHz, third sending, also strong.

12-Oct-13:- 0800 UTC, 11,484 kHz, "413 413 413 000".

0820 UTC, 0820 UTC, 12,184 kHz, second sending, both transmissions S9.

19-Oct-13:- 0800 UTC, 11,484 kHz, and 0820 UTC, 12,184 kHz, both S9, "413 413 413 000".

September2013:

5773kHz 2040z	25/09 [147 1 69693 7008 56 35535 ... 39145 000 000] 2049z Strong QRN3 QSB2	Spectre, PLdn	WED
7437kHz0430z	05/09[411 000] Very strong	(2m11s) PLdn	THU
0430z	12/09[411 000] Very strong	(2m11s) PLdn	THU
0430z	19/09[411 000] Very strong	(2m08s) PLdn	THU
0430z	26/09[411 1 69693 7008 56 35538 ... 39145 000 000] Very strong	(7m27s) PLdn	THU
5773kHz 2040z	25/09 [147 1 69693 7008 56 35535 ... 39145 000 000] 2049z Strong QRN3 QSB2	Spectre	WED
7473kHz 2020z	04/09 [147 147 147 000] 2022z Strong QRN2 QSB2	Spectre	WED
2020z	11/09 [147 147 147 000] 2022z Strong QRN2 QSB2	Spectre	WED
2020z	18/09 [147 147 147 000] 2022z Strong QRN2 QSB2	Spectre	WED
2020z	25/09 [147 1 69693 7008 56 35535 ... 39145 000 000] 2029z Strong QRN2 QSB2	Spectre	WED
8137kHz0450z	05/09[411 000] Very strong	(2m11s) PLdn	THU
0450z	12/09[411 000] Very strong	(2m11s) PLdn	THU
0450z	19/09[411 000] Very strong	(2m08s) PLdn	THU
0450z	26/09[411 1 69693 7008 56 35538 ... 39145 000 000] Very strong	(7m27s) PLdn	THU
8173kHz2000z	04/09 [147 147 147 000] 2002z Strong QRN2 QSB2	Spectre,AJS	WED
2000z	11/09 [147 147 147 000] 2002z Strong QRN2 QSB2	Spectre	WED
2000z	18/09 [147 147 147 000] 2002z Strong QRN2 QSB2	Spectre	WED
2000z	25/09 [147 1 69693 7008 56 35535 ... 39145 000 000] 2009z Strong QRN2 QSB2	Spectre	WED

E07a 8173/7473/5773kHz 2000/2020/2040z 25/09 Transcript:

147 1 69693 7008 56
35535 75334 89058 57813 38135 34242 99218 19543 66359 20834
67401 62572 17891 89861 39189 95995 88129 48250 21592 36750
05474 38061 50948 39071 41837 25922 28368 18172 58167 34279
01712 72487 74156 30836 40596 66781 12817 76794 38210 13667
68192 58135 80418 28815 87943 11218 36068 17494 59063 33094
97066 60068 54849 89193 74856 39145 000 000
Courtesy Spectre

9137kHz0510z	26/09[411 1 69693 7008 56 35538 ... 39145 000 000] Very strong	(7m27s) PLdn	THU
11153kHz0800z	07/09[114 000] Fair	(2m08s) PLdn	SAT
0800z	14/09[114 114 114 000]QSA3 QSB2	JO, GD	SAT
0800z	21/09[114 000] Fair	(2m09s) PLdn	SAT
0800z	28/09[114 1 35653 6936 70 58889 ... 97838 000 000] Very strong	(8m36s) PLdn	SAT
12153kHz0820z	07/09[114 000] Strong	(2m08s) PLdn	SAT

0820z	14/09[114 114 114 000]QSA4		JO	SAT
0820z	21/09[114 000] Strong	(2m09s)	PLdn	SAT
0820z	28/09[114 1 35653 6936 70 58889 ... 97838 000 000] Strong	(8m36s)	PLdn	SAT
13453kHz0840z	28/09[114 1 35653 6936 70 58889 ... 97838 000 000] Very strong	(8m36s)	PLdn	SAT
<u>October2013:</u>				
4564kHz2040z	03/10[815 1 39288 3631 92 61002 ... 59057 000 000] Very strong	(10m02s)	Spectre, PLdn	WED
<p>E07a 5864/5164/4564kHz 2000/2020/2040z 02/10 Transcript:</p> <p>815 1 39288 3631 92 61002 51234 74241 85415 49389 51540 85422 82054 55242 12334 65432 69659 54101 00905 97934 38767 49312 01090 74086 47575 17310 75771 81556 03891 79538 13962 26668 56604 48644 19535 69711 55126 28996 10302 10832 55456 96952 62356 74490 19292 37994 97677 24394 50956 26203 73463 44482 44670 51304 88470 78553 68241 61681 48698 96871 42690 57420 11003 65112 36241 44579 91187 96368 91725 81419 31123 45437 50590 63314 63547 69127 22604 38050 48842 32545 89930 35754 08894 09062 55994 63586 71804 94186 81125 74640 13154 25762 53456 26461 11366 19097 59057 000 000 <i>Courtesy Spectre</i></p>				
5146kHz0430z	04/10[188 1 39288 3631 92 61002 ... 59057 000 000] Very strong	(10m02s)	PLdn	THU
0430z	10/10[188 000]	(2m08s)	PLdn	THU
0430z	17/10[188 000] Very strong	(2m08s)	PLdn	THU
0430z	24/10[188 000] Very strong	(2m08s)	PLdn	THU
0430z	31/10[188 000] Very strong	(2m08s)	PLdn	THU
5164kHz2020z	02/10[815 1 39288 3631 92 61002 ... 59057 000 000] 2021z Strong QRN3 QSB3		Spectre	WED
2020z	09/10[815 815 815 000] 2022z Strong QRN3 QSB3		Spectre	WED
2020z	16/10[815 815 815 000] 2022z Strong QRN3 QSB3		Spectre	WED
2020z	23/10[815 815 815 000] 2022z Strong QRN3 QSB3		Spectre	WED
2020z	30/10[815 815 815 000] 2022z Strong STANAGQRM3 QSB3		Spectre	WED
5846kHz0450z	04/10[188 1 39288 3631 92 61002 ... 59057 000 000] Very strong	(10m02s)	PLdn	THU
0450z	10/10[188 000]	(2m08s)	PLdn	THU
0450z	17/10[188 000] Very strong	(2m08s)	PLdn	THU
0450z	24/10[188 000] Very strong	(2m08s)	PLdn	THU
0450z	31/10[188 000] Very strong	(2m08s)	PLdn	THU
5864kHz2000z	02/10[815 1 39288 3631 92 61002 ... 59057 000 000] 2011z Strong QRN3 QSB3		Spectre	WED
2000z	09/10[815 815 815 000] 2002z Strong QRN3 QSB3		Spectre	WED
2000z	16/10[815 815 815 000] 2002z Strong QRN3 QSB3		Spectre	WED
2000z	23/10[815 815 815 000] 2002z Strong QRN3 QSB3		Spectre	WED
2000z	30/10[815 815 815 000] 2002z Strong BCQRM3 QSB2		Spectre	WED
6846kHz0510z	04/10[188 1 39288 3631 92 61002 ... 59057 000 000] Strong 500HzHETQRM3	(10m02s)	PLdn	THU
10124kHz1530z	11/10[411 411 411 000]		GD	FRI
1530z	25/10[411 411 411 000 R2m] 1532z QSA5		tiNG	FRI
11424kHz1510z	11/10[411 411 411 000]		GD	FRI
1510z	18/10[411 411 411 000] 1510z strong Signal but strong BC Station in Background via Web SDR Twente,NL		EL	FRI
1510z	25/10[411 411 411 000 R2m] 1512z QSA4		tiNG	FRI
11484kHz0800z	05/10[413 000] Fair, QSB2	(2m08s)	PLdn	SAT
0800z	12/10[413 000] Fair/Strong	(2m08s)	PLdn	SAT
0800z	19/10[413 000] Strong	(2m08s)	PLdn	SAT
0800z	26/10[413 000] Fair, QSB3	(2m08s)	PLdn	SAT
12184kHz0820z	05/10[413 000] Strong	(2m08s)	PLdn	SAT
0820z	12/10[413 000] Fair	(2m08s)	PLdn	SAT
0820z	19/10[413 000] Fair	(2m08s)	PLdn, M8	SAT
0820z	26/10[413 000] Fair	(2m08s)	PLdn	SAT

RNGB's E07a logs:

E07a September log:

Weds 4th	20:00	8173	'147' 000
Sat 7th	08:20	12153	'114' 000
Sat 14th	08:00	11153	'114' 000
Sat 21st	08:00	11153	'114' 000
Weds 25th	20:00	8173	'147' 1 69693 7008 56 35538 75334 89058.....74856 39145
Friday 27th	15:10	10583	'531' 1 35653 6936 70 58889 44345.....97838
	15:30	9383	'531' 1 35653 6936 70 58889 44345.....97838
	15:50	8183	'531' 1 35653 6936 70 58889 44345.....97838

E07a October log:

Weds 2nd	20:00	5864	'815' 1 39288 3631 92 61002 51234 74241.....59057
Sat 5th	08:00	11484	'413' 000
Friday 25th	15:10	11424	'411' 000
	15:30	10124	'411' 000

E11(III)**E11 Sept/Oct log:**

4909kHz	1445z	07/09 [287/00]	Very strong signal	Fox	SAT
	1445z	11/09 [287/00]	1448z Fair QRM1 QSB1	JkC	WED
	0900z	14/09 [248/00]	Medium/strong	Fox, Thomas	SAT
	0900z	24/10 [248/00]	Weak	RNGB	THU
6304kHz	0450z	21/10 [416/00]	Weak signal via Web SDR Twente,NL	Elmar	MON
7377kHz	2001z	13/09 [576/00]	Good	RNGB	FRI
	2000z	20/09 [576/00]		RNGB	FRI
	2000z	27/09 [576/00]		RNGB	FRI
	2000z	04/10 [576/00]		RNGB	FRI
7449kHz	1045z	10/09 [469/00]		RNGB	TUE
	1045z	22/10 [469/00]	Fair	RNGB	TUE
8102kHz	1045z	22/10 [576/00]	Good	RNGB, Spectre	TUE
	1045z	23/10 [649/00]	1048z Weak QRN3 QSB3	Spectre	WED
9079kHz	0820z	05/09 [438/00]	Good	RNGB	THU
	0820z	16/09 [438/00]	Good	RNGB	MON
	0820z	23/09 [438/00]		RNGB	MON
	0820z	30/09 [438/00]		Elmar	MON
	0820z	03/10 [438/00]		RNGB	THU
	0820z	07/10 [438/00]		RNGB	MON
	0820z	21/10 [438/00]		RNGB	MON
9371kHz	1730z	12/09 [416/00]	Good	RNGB, Gary	THU
	1730z	26/09 [416/00]		RNGB	THU
	1730z	03/10 [416/00]	Good	RNGB	THU
	1730z	24/10 [416/00]		RNGB	THU
9399kHz	0900z	04/09 [534/00]		RNGB	WED
	0900z	16/09 [534/00]		RNGB	MON
	0900z	30/09 [534/00]		Elmar	MON
	0900z	02/10 [534/00]		Ian W	WED
	0900z	07/10 [534/00]		Elmar, RNGB	MON
	0900z	14/10 [534/00]	Strong signal via Web SDR Twente,NL	Elmar	MON
	0900z	21/10 [534/00]		RNGB, Malc	MON
	0900z	23/10 [534/00]		RNGB	WED
10221kHz	0710z	03/09 [633/00]		RNGB	TUE
	0710z	24/09 [633/00]		RNGB	TUE
	0710z	27/09 [633/00]		RNGB	FRI
	0710z	01/10 [633/00]	Strong	Elmar, RNGB	TUE
	0710z	04/10 [633/00]	Very strong	Fox	FRI
	0710z	08/10 [633/00]	Good	RNGB	TUE
	0710z	22/10 [633/00]		RNGB	TUE
	0710z	29/10 [633/00]		RNGB	TUE
10690kHz	0830z	02/09 [649/00]		RNGB	MON
	0830z	06/09 [649/00]		RNGB, Spectre	FRI
	0830z	13/09 [649/00]		RNGB, Malc	FRI
	0830z	23/09 [649/00]		RNGB	MON
	0830z	30/09 [649/00]		RNGB	MON
	0830z	07/10 [649/00]		Elmar, RNGB	MON
	0830z	28/10 [649/00]	Out 0833z S4	Malc	MON
10800kHz	0645z	03/09 [517/00]	Weak	RNGB	TUE
	0645z	05/09 [517/00]		RNGB	THU
	0645z	24/09 [517/00]		RNGB	TUE
	0645z	26/09 [517/00]		RNGB	THU
	0645z	01/10 [517/00]		RNGB	TUE
	0645z	03/10 [517/00]		RNGB	THU
	0645z	08/10 [517/00]		RNGB, Spectre	TUE
	0645z	10/10 [517/00]	via Web SDR Twente,NL	Elmar	THU
	0645z	22/10 [517/00]		RNGB, Spectre	TUE
14575kHz	0745z	03/09 [335/00]	Fair	RNGB	TUE
	0745z	10/09 [335/00]		RNGB	TUE
	0745z	12/09 [335/00]		RNGB	THU
	0745z	24/09 [335/00]	low on frequency	RNGB	TUE
	0745z	26/09 [335/00]	Out 0748z S4	Malc	THU
	0745z	01/10 [335/00]		Elmar	TUE
	0745z	03/10 [335/00]		RNGB	THU
	0745z	10/10 [335/00]	via Web SDR Twente,NL	Elmar	THU
	0745z	22/10 [335/00]		RNGB	TUE
	0745z	29/10 [335/00]	Good	RNGB	TUE

14972kHz	1300z	24/09 [133/00] Good	RNGB	TUE
	1300z	01/10 [133/00] Good	RNGB	TUE
	1300z	08/10 [133/00]	RNGB	TUE
	1300z	22/10 [133/00]	RNGB	TUE
15915kHz	1540z	01/09 [228/00] Weak	RNGB	SUN
	1540z	02/09 [228/00] Weak	RNGB	MON
	1155z	04/09 [718/00] Out 1158z Fair QRN2 QSB2	Spectre	WED
	1155z	05/09 [718/00]	RNGB	THU
	1540z	08/09 [228/00] Out 1543z S9+10	Malc	SUN
	1540z	22/09 [228/00] Good	RNGB	SUN
	1540z	23/09 [228/00] Good	RNGB	MON
	1540z	30/09 [228/00]	Elmar	MON
	1155z	16/10 [718/00] Very weak	Elmar	WED
	1155z	17/10 [718/00] Weak	Elmar	THU
	0545z	23/10 [348/00] Weak	RNGB	WED

E11a Sept/Oct log:

4909kHz	0900z	12/10 [241/35] R3m Weak, became unreadable	Thomas	SAT
	1445z	16/10 [289/32 27973 83732 92718 52411 98487... 25083] Out1454z Fair	JkC	WED
5194kHz	1710z	02/09 [959/30 49919 51495 79277 01954 61708.....etc] Fair	RNGB	MON
	1710z	06/09 [955/25 81257 30199 12291 44635 57334.....23658] Good	RNGB	FRI
	1710z	13/09 [959/30 22157 84891 84072 02727 46713.....97254] Strong	RNGB	FRI
	1710z	16/09 [953/21 17574.....29813] Out 1717z S9	Malc	MON
	1710z	20/09 [953/25 76694 02109 25774 63987 88482.....17315]	RNGB	FRI
	1710z	30/09 [954/33 89709 48796 91061 13186 91706.....88639]	Elmar	MON
	1710z	14/10 [953/25 98750 19088 27697 43971 57111.....24184]	Elmar, JkC	MON
	1710z	25/10 [953/25 56695 78272 18663 49471 06504.....04872]	Malc, RNGB	FRI
	1710z	28/10 [953/30 58578 21156 03746 00299 99484.....42650] 31 groups sent!	RNGB	MON
7377kHz	2000z	06/09 [577/35 26155 01081 39485 77364 14010.....26284] QRM from G06	RNGB, Fox, Malc	FRI
	2000z	11/10 [570/33 Attention 14893 ... 74242 Out] 2010z Fair QRN3 QSB3	Spectre	FRI

E11a 7377kHz 2000z 11/10 Transcript:

570/33 Attention
14893 33139 15554 00064 04426 39077 43711 26468 42511 04035
78375 27777 23649 17506 33229 56011 10846 71545 46610 03394
79511 52760 60088 97195 21847 33702 80089 56937 12079 36997
05831 77029 74242
Out

Courtesy Spectre

7449kHz	1045z	03/09 [463/32 71695 04545 74294 91186 95289.....38622]Fair	RNGB	TUE
	1045z	04/09 [463/32 Attention 71695 ... 38622] Out 1048z Fair QRN2 QSB2	Spectre	WED
	1045z	01/10 [462/31 12662 61624 72043 69399 25251.....37627]	RNGB	TUE
9079kHz	0820z	12/09 [435/37 41364 77703 15929 72744 45101.....85229] Weak	RNGB	THU
9371kHz	1730z	05/09 [415/36 23067 00902 71859 23014 17429.....81137] V strong	Fox, Malc	THU
	1730z	10/10 [418/34 97002 76113 47791 45436 93422.....03580] Strong	Elmar	THU
9399kHz	0900z	23/09 [530/30 00968 36877 13075 22908 97398.....72885]	RNGB	MON
	0900z	25/09 [530/30 00968 etc] repeat of Monday	RNGB	WED
	0900z	07/10 [534/00] 0903z Weak QRN3 QSB3	Spectre	MON
	0900z	21/10 [534/00] 0903z Fair QRN3 QSB3	Spectre	MON
	0900z	23/10 [534/00] 0903z Weak QRN3 QSB3	Spectre	WED
10221kHz	0710z	10/09 [635/34 42099 65708 32427 40740 34752.....73436]	RNGB	TUE
	0710z	13/09 [635/34 42099 etc] repeat of Tuesday	RNGB, Fox	FRI
	0710z	08/10 [633/00] 0713z Weak QRN3 QSB3	Spectre	TUE
	0710z	22/10 [633/00] 0713z Weak QRN3 QSB3	Spectre	TUE
10690kHz	0830z	16/09 [648/33 25086 96840 76416 66235 30455.....79593]	RNGB	MON
	0830z	21/10 [649/36 47839 17806 48880 11009 09105.....31990] Good	RNGB, Malc,Spectre	MON
	0830z	25/10 [649/36 47839....etc] repeat of Monday	RNGB	FRI

E11a 10690kHz 0830z 21/10 Transcript:

649/36 Attention
47839 17806 48880 11009 09105 39796 23139 77412 08954 41476
20870 54879 68651 02548 09302 88347 56051 61138 95720 29991
27446 28023 49331 24510 06113 23232 49377 22075 00405 65738
83022 52815 08796 80624 59718 31990
Out

Courtesy Spectre

13375kHz	1110z	02/09 [950/40 32386 58594 78599 37282 67627.....etc]	RNGB	MON
	1400z	03/09 [988/10 39865 13338 71223 26426 12519.....26822] Good	RNGB	TUE
	1110z	06/09 [954/33 40887 04856 02113 04996 07349.....94535] Good	RNGB, Spectre	FRI
	1400z	07/09 [981/10 24459 52513 12515 40372 72562.....72711]	RNGB	SAT
	1110z	09/09 [958/34 92467 49220 73508 85926 41990.....91616]	RNGB	MON
	1400z	10/09 [987/10 49587 63978 27824 69702 51080.....39688] Good	RNGB	TUE
	1110z	13/09 [950/40 21443 70098 21934 47855 46460.....48021]	RNGB	FRI

1400z	14/09 [987/10 63253 61940 37788 53249 87552.....40106]	RNGB, Malc, Fox	SAT
1110z	16/09 [952/31 97903.....57533] Out 1119z S3	Malc	MON
1400z	21/09 [984/10 43683 05418 95603 46599 15929.....74766] Strong	RNGB	SAT
1110z	23/09 [952/33 03727 73967 03862.....94386] single repeat, Out 1119z S2	Malc	MON
1400z	24/09 [982/10 26151 68316 75409 01188 03441.....04089] Strong	RNGB	TUE
1400z	01/10 [987/10 73318 34703 78142 89180 39290.....38097]	RNGB	TUE
1110z	04/10 [954/33 92777 20047 06442 93755 19195.....95782]	Gert	SAT
1110z	07/10 [952/40 13990 56168 70749 71719 40760.....66810]	Elmar, Spectre	MON
1110z	14/10 [951/20 85297 21009 56317 59078 85580.....07523]	Elmar	MON
1400z	15/10 [987/10 45088 73964 02566 11529 21811.....81558]	JkC	TUE
1400z	19/10 [987/10 87521 43556 90053 82233 59362.....77390]	Malc	SAT
1110z	21/10 [953/21 67773 10210 20612 95474 85007.....15175]	RNGB	MON
1400z	22/10 [981/10 Attention 86517 ... 79380 Out] 1406z Fair QRN3 QSB3	Spectre	TUE
1110z	25/10 [952/31 61065 56181 60280 98426 28817.....76054] Out 1119z S7	Malc, Spectre	FRI

E11a 13375kHz 1110z 07/10 Transcript:

952/40 Attention
13990 56168 70749 71790 40760 17561 93522 90253 74915 62595
69339 88032 42298 06656 74520 94766 12984 67017 96601 22292
45228 08763 20692 05369 96670 82987 91665 13612 98897 34673
33531 04906 61241 63987 64135 39164 18095 85505 57599 66810
Out *Courtesy Spectre*

E11a 13375kHz 1400z 22/10 Transcript:

981/10 Attention
86517 10420 07645 93960 47039 30223 41023 33391 43381 79380
Out *Courtesy Spectre*

E11a 13375kHz 1110z 25/10 Transcript:

952/31 Attention
61065 56181 50280 98426 28817 46884 32083 79497 26817 04595
73664 19190 28754 01306 86559 51831 21393 52700 07261 13199
13635 14396 56657 98838 48717 11574 97250 39205 00700 12852
76054
Out *Courtesy Spectre*

13455kHz	1810z	03/09 [985/10 39258 35085 93163 46018 38719.....56266] Good	RNGB	TUE
	1810z	07/09 [982/10 84697 27879 94620 06146 55267.....19897] S5	Malc	SAT
	1810z	10/09 [988/10 93574 40166 51339 60119 90361.....90242]	RNGB	TUE
	1810z	14/09 [988/10 29744 67871 11209 85864 61204.....95912] Good	RNGB, Fox	SAT
	1810z	21/09 [980/10 68837 26995 66756 36054 29015.....43273] Weak	RNGB	SAT
	1810z	24/09 [983/10 69015 33164 92685 14314 20115.....27418]	RNGB	TUE
	1810z	01/10 [985/10 66478 34905 31623 71900 47449.....39502]	RNGB	TUE
	1810z	08/10 [980/10 21338 79754 21553 16365 81710.....26770]	Thomas	TUE
	1810z	12/10 [986/10 95352 52781 53682 50040 74364.....38044] Out 1815z S9+10	Malc	SAT
	1810z	22/10 [982/10 Attention 97412 ... 30013 Out] 1816z Fair QRN3 QSB3	Spectre	TUE
	1810z	26/10 [985/10 87883 78598 59178 02149 44823.....03152]	Malc	SAT

E11a 13455kHz 1810z 22/10 Transcript:

982/10 Attention
97412 13752 17508 90888 73627 21963 43976 63971 75852 30013
Out *Courtesy Spectre*

14575kHz	0745z	17/10 [331/31 61853 32532 48866 96176 92455.....31343]	Elmar	THU
14972kHz	1300z	10/09 [137/32 67623 81738 83129 63775 75843.....62803] Good	RNGB	TUE
15915kHz	1540z	09/09 [222/33 73410 61430 ... 68717 72411] Out 1549z	Thomas	MON
	1540z	15/09 [222/33 73410 ... 72411] Out 1549z Fair QRM1 QSB2	JkC	SUN
	0545z	25/09 [343/30 89536 99727 56268 21062 68811.....99617] Weak	RNGB	WED
	1155z	25/09 [719/30 24598 24774 50687 46702 65976.....77164] Good	RNGB	WED
	1155z	26/09 [719/30..."ATTENTION" 24598 24774.....77164] Out 1204z S8	Malc	THU
	1155z	02/10 [717/36 63128 31049 88193 45280 68503.....19520] Fair, QSB	RNGB	WED
	1540z	07/10 [220/32 27467 52176 46660 09388 10105.....25153]	Gary	MON
	1540z	13/10 [220/32 27467 etc] repeat of Monday	Malc	SUN

E17z **September2013:**

12930kHz	0810z	26/09[674 950 5 88620 58069 65732 74537 57440 950 5 00000]0815z S1	M8	THU
14260kHz	0800z	05/09[674 213 5 57024 87757 72785 54876 15595 ...]	GD	THU
	0800z	12/09[674 213 5 57024 87757 72785 54876 15595 ...]	GD	THU
	0800z	19/09[674 910 5 88620 58069 61732 74537 57440 ...]	GD	THU
	0800z	26/09[674 950 5 88620 58069 65732 74537 57440 950 5 00000]0805z S2	M8, GD	THU

14260kHz0800z	10/10[674 295 55 57634 89673 23554 68745 78094 295 55 00000]	strong Signal via Web SDR Twente,NL	EL	THU
0800z	17/10[674 952 55 47665 94092 48521 63888 92060 952 55 0 0 0 0]	strong Signal via Web SDR Twente,NL	EL, GD	THU
0800z	24/10[674 952 55 47665 94092 48521 63888 92060 952 55 0 0 0 0]		GD	THU

5442kHz1930z	13/09[947 852 15 64281 ... 21882 852 15 00000(s)]	HJH	FRI
	947 852 15 64281 22881 27932 27381 22312 88398 93728 64532 62887 29833 93361 72312 22389 21621 21882 852 15 00000 <i>Courtesy HJH</i>		
1930z	11/10[947 352 15 23821 ... 58291 352 15 00000(s)] Strong, QRM2	(7m11s) PLdn	FRI
6774kHz0800z	02/09[215 00000] Very weak	PLdn	MON
0800z	09/09[215x3 000.....] 0804z very weak	M8	MON
0800z	16/09[215x3 00000.....] 0802z S1	M8	MON
0800z	23/09[215x3 00000.....] 0803z S1	M8	MON
0800z	30/09[215 00000(s)] Weak, readable	PLdn, Elm	MON
7377kHz 2000z	06/09 [239 00000(s)] 2004z Fair E11aQRM3 QSB3	Spectre, AJS	FRI
2000z	20/09[239 239 239 00000 R4m] 2004z QSA5 QRM3 (by E11 on 7377,0 kHz !) QRN5 QSB5	tiNG	FRI

October2013:

4569kHz1700z	07/10[564 564 564 00000] 1700z strong Signal via Web SDR Twente,NL	Elm, Spectre	MON
1700z	14/10[564 00000]1703z Strong QRM1 QSB1	JkC, M8, tiNG	MON
5424kHz1800z	07/10[564 00000]1803z Strong QRM1 QSB1	JkC, M8	MON
1800z	14/10[564 00000]1803z Strong QRM1 QSB1	JkC, M8, tiNG	MON

Above also logged by Spectre
G06 5442kHz 1930z 11/25/10 Transcript:

947 352 15
03821 28754 86473 03711 10192
88932 53762 29583 04824 94730
93728 93627 83425 57634 58291
352 15 00000 *Courtesy Spectre*

5934kHz1830z	10/10[579 863 15 90387 ... 20980 863 15 00000] 1830z strong Signal via Web SDR Twente,NL	EL	THU
	579 863 15 90387 68419 20313 94712 31021 57482 77631 10241 93612 03419 03912 93719 54234 83912 20980 863 15 0 0 0 0 <i>Courtesy Elmar</i>		

6774kHz0800z	07/10[215 215 215 00000]	GD	MON
0800z	14/10[215 00000(s)] Fair	(3m47s) M8, PLdn	MON
0800z	21/10[215x3 00000.....]0803z S1	M8, EL, PLdn	MON

G11

G11 Sept/Oct log:

5815kHz	1755z	03/09 [270/00] Very strong signal	Fox	TUE
	1325z	09/06 [299/00] R3m Ende 1328z QSA3 QRM5 QRN5 QSB4	Thomas	FRI
	1755z	08/09 [270/00] Ende1759z S9	Malc	SUN
	1755z	10/09 [270/00]	Thomas	TUE
	1755z	15/09 [270/00] Ende1703z S7	Malc	SUN
	1325z	20/09 [299/00] via Web SDR Twente,NL	Elmar	FRI
	1755z	24/09 [272/30 88503 97867 56993 97664 08496.....74900]	RNGB	TUE
	1755z	01/10 [271/35 81109 59329 83301 32530 67958.....37935]	RNGB	TUE
	1325z	05/10 [299/00] Weak	RNGB	SAT
	1755z	06/10 [271/35 81109 etc] repeat of Tuesday	RNGB	SUN
	1755z	08/10 [270/00] Ende 1758z QSA5 QRM3 QRN4 QSB4	Thomas	TUE
	1755z	13/10 [270/00]	Malc	SUN
	1325z	18/10 [299/00] Strong signal via Web SDR Twente,NL	Elmar	FRI
6433kHz	2000z	01/09 [262/00] Good	RNGB	SUN
	2000z	06/09 [262/00] Good	RNGB	FRI
	2000z	08/09 [262/00]	RNGB	SUN
	2000z	13/09 [262/00] Strong	RNGB, Gary	FRI
	2000z	15/09 [262/00] Ende 2003z S9+10	Malc	SUN
	2000z	20/09 [265/33 74239 48630 79138 53931 48275.....39766]	RNGB	FRI
	2000z	27/09 [262/00]	RNGB	FRI
	2000z	29/09 [262/00]	Gary	SUN
	2000z	06/10 [260/34 41649 94278 34912 63344 08982.....02833]	RNGB	SUN
	2000z	11/10 [262/00] 2003z Fair QRN3 QSB3	Spectre	FRI
	2000z	13/10 [262/00] Strong signal via Web SDR Twente,NL	Elmar, Malc	SUN
	2000z	27/10 [262/00]	Malc	SUN

S06 [RNGB's logs]

To open this section we have a RNGB special!!!

S06s

ID 481 made an appearance today at the normal scheduled time of 0730 after a long absence.

It sent an unusual 12 group message. And it is week number 5 when normally no messages are sent.

Maybe a precursor to regular sending again?

Perusal of my S06s logs I found that the S06s message this morning on 8270 consisted of TWO messages sent previously, plus 2 groups from another message.

Weird or what?

12/09/2013 Thurs 09:10 6524 S06s 624 913 5 02231 59845 81954 54174 54894
 25/09/2013 Weds 08:40 8712 S06s 328 479 5 23917 85311 25152 03369 50544
 25/09/2013 Weds 10:00 13365 S06s 729 483 5 83596 05266 57257 62192 01555

8270kHz0730z 30/10[481 536 12 02231 59845 81954 54174 54894 23917 85311 25152 03369 50544 83596 05256] RNGB
 0740 repeat not found.

WED

Now onto RNGB's logs:

S06 September log:

Mon 2nd	19:00	5784	'349' 00000
Mon 9th	18:15	13475	'036' 00000
	19:00	5784	'349' 00000
Sat 14th	16:05	7472	'764' 00000
	19:30	5813	'426' 938 41 69447 26959 74269 25303 83093 12896.....69420
Sat 21st	16:05	7472	'764' 00000
	19:35	4772	'426' 938 41 69447.....69420
	20:00	4019	'319' 00000
	20:00	5912	'857' 00000
Mon 23rd	18:15	13475	'036' 00000
	19:00	5784	'349' 00000
	19:15	11060	'036' 00000
Thurs 26th	19:00	5784	'349' 00000
Sat 28th	16:05	7474	'764' 00000
	19:30	5823	'426' 938 41 69447 26959 74269 25303 83093 12896.....69420

S06s September log:

Monday

2nd/9th	0830/40	9220/8270	'371' 492 5 48834 53735 61088 02440 59354
16th/23rd			'371' 964 5 90129 83789 46765 43679 08074
2nd/9th	0900/10	14580/13165	'872' 514 6 21816 42997 94184 47374 74154 08531
16th/23rd			'872' 945 6 82736 45362 81092 78789 47762 34576
2nd/9th	1200/10	9145/11460	'831' 527 6 48115 24153 51802 23807 15521 88569
16th/23rd			'831' 456 7 83927 47390 75847 93090 32486 32109 67679

Tuesday

3rd/10th	0600/10	14080/12365	'438' 962 5 68672 63912 10544 11160 64385
17th/24th			'438' 967 5 92830 84750 89876 43431 32896
3rd/10th	0700/15	5760/6930	'374' 201 5 86503 32363 65789 45555 35455
17th/24th			'374' 986 5 98976 56431 29878 35356 90890
3rd/10th	0730/40	7425/11560	'427' 986 5 38605 48503 49140 35524 45422
17th/24th			'427' 906 5 46062 68670 97478 39685 30485
3rd/10th	0800/190	11635/10420	'352' 407 6 77595 57753 65052 57456 05866 54383
17th/24th			'352' 890 6 21767 53672 11834 81022 36903 41412
3rd/10th	1000/10	6410/7340	'893' 261 5 52401 63919 92699 14632 74248
17th/24th			'893' 407 5 52401 63919 92699 14600 74248
3rd/10th	1500/10	6464/7242	'537' 801 6 25536 88280 84116 53718 78927 34694
17th/24th			

Wednesday

4th/11th	0730/40	11854/12140	'745' 839 6 92837 56574 93022 10928 89122 88312
18th/25th			'745' 821 6 07552 56936 57989 05371 63260 93463
4th/11th	0820/30	7605/9255	'471' 869 5 83746 22398 78786 35210 98237
18th/25th			'471' 269 5 06123 22536 88280 84116 82707
4th/11th	0840/50	8712/9824	'328' 461 5 78564 46371 28374 78675 34290
18/25th			'328' 479 5 23917 85311 25152 03369 50544
4th/11th	1000/10	13365/14505	'729' 864 5 74856 66412 90867 75342 74298
18th/25th			'729' 483 5 83596 05266 57257 62192 01555
4th/11th	1230/40	7620/8105	'967' 213 5 65714 20587 .6440 28465 56594
18th/25th			'967' 235 8 groups (too weak to copy)

Thursday

5th/12th (E17z)	0800/10	14260/12930	'674' 213 5 57024 87757 72785 54876 15595
19th/26th			'674' 910 5 88620 58069 61732 74537 57440
5th/12th	0900/10	12952/13565	'167' 402 5 48325 70092 55645 65687 26581
19th/26th			'167' 920 5 43516 25616 56069 96813 14199
5th/12th	0900/10	5744/6524	'624' 913 5 02231 59845 81954 54174 54894
19th/26th			'624' 530 7 33796 13577 74526 46647 73902 53516 5306?
5th/12th	0930/40	8650/7385	'314' 209 5 83862 15713 53633 22235 45367
19th/26th			'314' 570 6 21816 42997 94184 47374 74154 61736
5th/12th	1200/10	12415/14212	'425' 893 6 79268 28964 93121 33223 85335 83862
19th/26th			'425' 860 7 06123 22536 88280 84116 53718 78927 34694

Friday

6th/13th	0600/10	7795/8695	'196' 274 5 46062 68672 97478 39685 30485
20th/27th			'196' 840 5 48115 24151 51802 23807 15521

6th/13th	0600/10	9078/10148	‘934’ 201 5 88620 58069 61732 74537 57440
20th/27th			‘934’ 562 7 74537 57440 10597 23521 47660 92883 69901
6th/13th	0800/10	? / 5805	‘278’ 419 5 52401 63919 92699 14682 74248
20th/27th			‘278’ too weak to copy
6th/13th	0930/40	12140/	‘516’ 423 8 61732 74537 57440 10597 23521 47660 92883 69901
20th/27th			‘516’ 843 7 88620 58069 61732 74537 57440 10597 26717
Saturday			
7th	10350/		‘254’ 813 6 17031 88554 8204536717 24047 75956

S06 October log:

Tues 1st	18:00	5890	‘286’ 00000
Sat 5th	19:35	4772	‘426’ 00000
	20:00	4967	‘319’ 00000
	20:30	6874	‘857’ 00000
	21:00	4019	‘319’ 00000
	21:30	5902	‘857’ 00000
Mon 28th	19:05	5117	‘349’ 00000
	19:15	9245	‘451’ 00000

S06s October log:

Monday

7th/14th	0830/40	9220/8270	‘371’ 286 5 21767 53672 11834 81022 36903
21st/28th			‘371’ 296 5 16945 80744 86200 84706 42227
7th/14th	0900/10	14580/13165	‘872’ 934 5 46062 68672 97478 39685 30485
21st/28th			‘872’ 519 6 40613 77249 40678 17976 21816 42997
7th/14th	1200/10	9145/11460	‘831’ 960 5 88620 58069 61732 74537 57440
21st/28th			‘831’ 562 7 46186 16945 80744 86200 84706 42227 61736

Tuesday

1st/8th	0600/10	14080/12355	‘438’ 907 5 53516 25616 61088 02442 59354
15th/22nd			‘438’ 902 5 45328 67451 12108 78534 56371
1st/8th	0700/15	5760/6930	‘374’ 908 5 88280 84116 53718 78927 24694
15th/22nd			‘374’ 290 5 90674 34216 75639 80534 22819
1st/8th	0730/40	7425/11560	‘427’ 905 6 89758 52343 97628 42432 56075 56281
15th/22nd			‘427’ 913 5 34216 89563 45219 90423 56473
1st/8th	0800/190	11635/10420	‘352’ 910 6 92060 11749 70552 56936 57989 05371
15th/22nd			‘352’ 904 6 56434 89784 13254 68734 90785 23218
1st/8th	1000/10	6410/7340	‘893’ 205 6 57024 87757 72785 54876 15595 73213
15th/22nd			‘893’ 241 5 67453 89045 13215 78563 23220
1st/8th	1500/10	6464/7242	‘537’ 920 6 79268 28964 93121 33223 85335 83862
15th/22nd			‘537’ 204 6 57634 89704 23165 67352 89674 67645

Wednesday

2nd/9th	0730/40	11854/12140	‘745’ 912 6 88554 82045 36717 24042 84116 53718
16th/23rd			‘745’ 983 6 82736 45637 01029 87454 23895 66321
2nd/9th	0820/30	7605/9255	‘471’ 836 5 26634 14690 95590 60386 03009
16th/23rd			‘471’ 298 5 73645 28989 10926 47783 23989
2nd/9th	0840/50	8712/9824	‘328’ 941 5 92837 46537 28911 78320 99231
18/25th			‘328’ 974 5 18264 38477 01928 78435 56422
2nd/9th	1000/10	13365/14505	‘729’ 513 6 96320 36793 53038 76342 15009 34140
16th/23rd			‘729’ 846 5 35289 75903 52810 53861
2nd/9th	1230/40	7620/8105	‘967’
16th/23rd			‘967’ unreadable

Thursday

3rd/10th (E17z)	0800/10	14260/12930	‘674’ 291 5 57634 89673 23154 68745 78094
17th/24th			‘674’ 912 5 47665 94092 48521 63888 92060
3rd/10th	0900/10	12952/13565	‘167’ 208 5 34217 69734 56386 90867 13214
17th/24th			‘167’ 904 5 33796 13577 74526 46647 79302
3rd/10th	0900/10	5744/6524	‘624’ 908 5 76453 89756 12314 45312 90674
17th/24th			‘624’ 853 7 39534 17228 15636 47891 23247 17099 94961
3rd/10th	0930/40	8650/7385	‘314’ unreadable
17th/24th			‘314’ 986 5 20534 11160 43474 37638 16070
3rd/10th	1200/10	12415/14212	‘425’ 890 6 34333 78564 90782 34128 94610 67649
17th/24th			‘425’ 810 6 10597 23521 47660 92883 69901 65906

Friday

4th/11th	0600/10	9078/10148	‘934’ 207 5 43657 89673 24316 89674 45326
18th/25th			‘934’ 516 7 40613 77249 56249 40678 17976 21816 42997
4th/11th	0700/10	7795/8695	‘196’ 427 5 34140 78386 91497 82963 24162
18th/25th			‘196’ 824 5 52401 63919 92699 14600 74248
4th/11th	0800/10	? / 5805	‘278’ 439 5 48115..... (tks Hfd)
18th/25th			‘278’ too weak to copy
4th/11th	0930/40	12140/13515	‘516’ 842 7 46186 16945 80744 86200 84706 42227 61736
18th/25th			‘516’ 904 7 76858 30913 20987 45632 10098 18453 76859

Saturday

5th	1200/10	10350/8520	‘254’ 813 6 17031 88554 82045 36717 24047 75956
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S06 PoSW's logs:

Seasonal changes of frequencies in September, in most cases those used in autumn are the same as in the springtime. We met them on the way up and now we are meeting them again on the way down.

Saturday Weekly 1600 or 1605 UTC Schedule:-

7-Sept-13:- 1600 UTC, 8,173 kHz, "764 764 764 00000", S9 signal. This frequency used in March and April of this year, a 1605 UTC sending will probably be on 7,472 kHz, plus or minus.

21-Sept-13:- 1605 UTC, 7,472 kHz, "764 764 764 00000".

28-Sept-13:- 1605 UTC, 7,474 kHz I made it, not 7,472. "764 764 764 00000", S9, heterodyne with carrier of a BC station on 7,475.

5-Oct-13:- 1600 UTC, 8,173 kHz, "764 764 764 00000", S9+.

First + Third Saturdays in the Month 1900 + 2000 UTC Schedule, "319":-

7-Sept-13:- 1900 UTC, 4,967 kHz, "319 319 319 00000", S9+, very strong signal.

2000 UTC, 4,019 kHz, second sending, heterodyne from a carrier on 4,020 kHz, probably a tropical BC station. Same frequencies, within a few kHz, as in March and April.

In October this schedule moved forward by one hour:-

5-Oct-13:- 2000 UTC, 4,967 kHz, "319 319 319 00000".

2100 UTC, 4,019 kHz, second sending, strong signal. So now on at 9 PM + 10 PM in the UK since we are still on summertime until the end of October; but once we "fall back" will be back to 8 PM + 9 PM again. It is all very confusing!

19-Oct-13:- 2000 UTC, 4,967 kHz, "319 319 319 00000", S9.

2100 UTC, 4,019 kHz, second sending.

First + Third Saturdays in the Month 1900 + 2000 UTC Schedule, "857":-

7-Sept-13:- 1900 UTC, 6,894 kHz, "857 857 857 00000", on same frequency as a strong "XJT".

2000 UTC, 5,922 kHz, second sending, similar frequencies used in March and April.

And in October this schedule shifted by one and a half hours:-

5-Oct-13:- 2030 UTC, 9.30 PM in the UK, 6,874 kHz, "857 857 857 00000".

I expected to find a repeat at 2130 UTC on 5,922 kHz, plus or minus, but nothing found; several very weak signals around this frequency but nothing identified as S06.

19-Oct-13:- 2030 UTC, 6,875 kHz, "857 857 857 00000", peaking S9+.

2130 UTC, 5,912 kHz, the second sending. No problem finding this 10.30 PM UK time sending on the third Saturday of October, it was S9+.

Saturday Weekly 1930 or 1935 UTC Schedule:-

7-Sept-13:- 1935 UTC, 4,772 kHz, calling "426" for a "full message" transmission.

DK/GC "938 938 41 41", peaking S9.

14-Sept-13:- 1930 UTC, 5,813 kHz, "426" and "938 938 41 41" again. S9+.

28-Sept-13:- 1930 UTC, 5,823 kHz, "426", still "938 938 41 41". S9 signal, strong FSK signal on close frequency.

5-Oct-13:- 1935 UTC, 4,772 kHz, "426 426 426 00000", at least this one hasn't done a "time shift"!

19-Oct-13:- 1935 UTC, 4,772 kHz, "426 426 426 00000", S9 with QSB.

Monday + Thursday 1900 or 1905 UTC Schedule:-

2-Sept-13, Monday:- 1900 UTC, 5,784 kHz, "349 349 349 00000", S9+.

5-Sept-13, Thursday:- 1900 UTC, 5,784 kHz, S9+, "349 349 349 00000".

12-Sept-13, Thursday:- 1900 UTC, 5,784 kHz, "349 349 349 00000", the usual S9+.

16-Sept-13, Monday:- 1905 UTC, 5,127 kHz, the alternative "plus five minutes" start, still "349 349 349 00000", S9+.

19-Sept-13, Thursday:- 1900 UTC, 5,784 kHz, "349 349 349 00000", S9+.

23-Sept-13, Monday:- 1900 UTC, 5,784 kHz, "349 349 349 00000".

3-Oct-13, Thursday:- 1900 UTC, 5,784 kHz, "349 349 349 00000".

7-Oct-13, Monday:- 1905 UTC, 5,127 kHz, "349 349 349 00000", S9+.

10-Oct-13, Thursday:- 1905 UTC, 5,127 kHz, "349 349 349 00000"

14-Oct-13, Monday:- 1905 UTC, 5,127 kHz, "349 349 349 00000".

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

9-Sept-13:- 1815 UTC, 13,475 kHz, "036 036 036 00000". S9 with QSB and interference from the frequency – swept carrier which seems to be a permanent fixture in this part of the short-wave spectrum.

1915 UTC, 11,060 kHz, second sending, peaking S9+.

23-sept-13:- 1815 UTC, 13,475 kHz, and 1915 UTC, 11,060 kHz, both strong signals, "036 036 036 00000".

14-Oct-13:- 1915 UTC, 9,245 kHz, "451 451 451 00000". Same frequency and call as in October last year. Missed the 1815 UTC sending, probably 11,125 kHz as in 2012.

S06
September2013:

4019kHz2000z	07/09[319 00000] Very strong signal, weak noise, some bleeding	FR	FRI
4772kHz1930z	07/09[426 938 41 69447 ... 69420 938 41 00000] Very strong signal, weak/moderate noise 426 938 41 69447 26959 74269 25303 83093 12896 67749 21706 23600 94164 41850 03937 86301 32255 06871 55167 61094 97319 34130 25304 45839 33171 79779 90704 10941 91511 87157 60244 98286 63251 40698 80968 89033 46302 76655 91968 98804 48182 53269 94049 69420 938 41 00000 Courtesy FR	FR	FRI
1935z	18/09[426 938 41 69447 ... 69420 938 41 00000(f)] Fair	(11m20s) PLdn, M8, HFD	WED
4967kHz1900z	07/09[319 00000] Very strong signal, weak/moderate noise	FR	FRI
5784kHz1900z	05/09[349 00000] Very strong signal, moderate/strong noise	FR, HJH	THU
1900z	11/09[349 R3x 00000]1904z Strong QRM1 QSB1	JkC	THU
8173kHz1600z	07/09[764 00000] Very strong signal, moderate noise	FR	FRI
11060kHz1915z	09/09[036x3 00000.....]1819z S9	M8	MON
1915z	23/09[036x3 00000.....]1919z S3	M8	MON
13475kHz1815z	09/09[036x3 00000.....]1819z S4	M8	MON
1815z	23/09[036x3 00000.....]1819z S5	M8	MON

October2013:

4772kHz1935z	12/10 [426x3 000.....]1939z S9	M8	SAT
1935z	19/10[426x3 00000.....]1939z S9	M8, Spectre	SAT
1935z	26/10[426x3 00000.....]1935z S7	M8	SAT
4967kHz2000z	19/10[319x3 00000.....]2004z S2	M8	SAT
5127kHz 1905z	07/10[349 00000] 1909z Strong QRN2 QSB2	Spectre	MON
1907z	10/10[349 349 349 0000] 1907z strong Signal via Web SDR Twente,NL	EL	THU
1905z	14/10[349 00000]1909z Strong QRM1 QSB1	JkC, M8	MON
5784kHz 1900z	21/10[349 00000] 1904z Strong QRN2 QSB2	Spectre	MON
7472kHz1605z	19/10[764x3 00000.....]1608z S9	M8	SAT
8173kHz1600z	26/10[764 764 764 000 R4m] 1604z QSA5	tiNG	SAT
9245kHz1915z	14/10[451 00000]1919z Strong QRM1 QSB1	JkC, M8	MON
11125kHz1815z	14/10[451 00000]1819z Strong QRM1 QSB1	JkC, HJH, M8	MON

S06s
September2013:

5760kHz0700z	10/09 [374 too weak to copy]0705z	M8	TUE
6410kHz1000z	10/09[893 261 5 52401 63919 92699 14632 74248 261 5 00000]1005z S1	M8	TUE
6464kHz1500z	10/09[537 801 6 25536 88280 84116 53718 78927 34694 801 6 00000]1505z Fair QRM1 QSB2	JkC	TUE
6930kHz0715z	10/09[374 201 5 86503 32363 65789 45555 35455 201 5 00000]0720z S1	M8	TUE
7242kHz1510z	10/09[537 801 6 25536 88280 84116 53718 78927 34694 801 6 00000]1515z Fair QRM1 QSB1	JkC	TUE
7340kHz1010z	10/09[893 261 5 52401 63919 92699 14632 74248 261 5 00000]1015z S1	M8	TUE
7605kHz0820z	25/09[471 269 5 06123 22536 88280 84116 82707 269 5 00000]0825z S1	M8	WED
7620kHz 1230z	04/09[967 213 5 65714 20587 .6440 28465 56594 213 5 00000]1235z Weak QRM1 QSB2	JkC	WED
7795kHz0600z	06/09[196 274 5 46062 68672 97478 39685 30485 274 5 00000] Very strong signal, moderate noise	FR, AJS	THU
8105kHz 1240z	04/09[967 213 5 65714 20587 .6440 28465 56594 213 5 00000]1245z Weak QRM1 QSB1	JkC	WED
8270kHz0840z	02/09[371 492 5 48834 53735 61088 02442 9354? 492 5 00000]0840z S1	M8	MON
0840z	09/09[371 492 5 48834 53735 61088 02440 59354 492 5 00000]0845z S1	M8	MON
0840z	16/09[371 too weak to copy..]0845z	M8	MON
0840z	23/09[371 very weak]0915z	M8	MON

8520kHz1210z	07/09[254 813 6 17031 88554 82045 36717 24047 75956 813 6 00000] Very strong signal, QRM	FR	SAT
8695kHz0610z	06/09[196 274 5 46062 68672 97478 39685 30485 274 5 00000] Very strong signal, very weak noise	FR	THU
8712kHz0840z	25/09[328 479 5 23917 85311 25152 03669 50544 479 5 00000]0845z S1	M8	WED
9145kHz1200z	02/09[831 527 6 48115 24153 51802 23807 15521 88569 527 6 00000]1205z S1	M8	MON
1200z	09/09[831 527 6 48115 24153 51802 23807 15521 88569 527 6 00000]1205z S1	M8	MON
1200z	16/09[831 456 7 83927 47390 75847 93090 32486 32109 67679 456 7 00000]1205z S1	M8	MON
1200z	30/09[831 831 831 00000] via Web SDR Twente,NL	Elm	MON
9220kHz0830z	02/09[371 492 5 48834 53735 61088 02442 9354? 492 5 00000]0835z S1	M8	MON
0830z	09/09[371 492 5 48834 53735 61088 02440 59354 492 5 00000]0835z S1	M8	MON
0830z	16/09[371 too weak to copy..]0835z	M8	MON
0830z	23/09[371 very weak] 0905z	M8	MON
9255kHz0830z	25/09[471 269 5 06123 22536 88280 84116 82707 269 5 00000]0835z S1	M8	WED
9824kHz0845z	25/09[328 479 5 23917 85311 25152 03669 50544 479 5 00000]0850z S1	M8	WED
10350kHz1200z	07/09[254 813 6 17031 88554 82045 36717 24047 75956 813 6 00000] Very strong signal, QRM	FR	SAT
10420kHz0810z	10/09[352 407 6 77595 57753 65052 57456 05866 54380 407 6 00000]0815z S3	M8	TUE
11460kHz1210z	02/09[831 527 6 48115 24153 51802 23807 15521 88569 527 6 00000]1215z S2	M8	MON
1210z	09/09[831 527 6 48115 24153 51802 23807 15521 88569 527 6 00000]1215z S2	M8	MON
1210z	16/09[831 456 7 83927 47390 75847 93090 32486 32109 67679 456 7 00000]1205z S1	M8	MON
1210z	23/09[831 456 7 83927 47390 75847 93090 32486 32109 67679 456 7 00000]1215z S5	M8	MON
1210z	30/09[831 831 831 00000] strong Signal via Web SDR Twente,NL	Elm	MON
11635kHz0800z	10/09[352 407 6 77595 57753 65052 57456 05866 54380 407 6 00000]0805z S1	M8	TUE
12140kHz0930z	06/09[516 473 8 61732 74537 57440 10597 23521 47660 92883 69901 473 8 00000(s)] 0936z Strong QRN2	Spectre	FRI
0930z	13/09[516 473 8 61732 74537 57440 10597 23521 47660 92883 69901 473 8 00000(s)] 0936z Fair QRN2	Spectre, JO	FRI
12355kHz0610z	03/09[438 962 5 68672 63912 10544 11160 64385 962 5 00000] via Twente 0615z Very Strong	AJS	TUE
12415kHz1200z	26/09[425 860 7 06123 22536 88280 84116 53718 78927 34694 860 7 00000]1205z S6	M8	THU
12952kHz0900z	26/09[167 920 5 43516 25616 56069 96813 14199 920 5 00000]0905z S9	M8	THU
13165kHz0910z	02/09[872 514 6 21816 42997 94184 47374 74154 08531 514 6 00000]0915z S7	M8	MON
0910z	09/09[872 514 6 21816 42997 94184 47374 74154 08531 514 6 00000]0915z S7	M8	MON
0910z	16/09[872 945 6 82736 45362 81092 78789 47762 34576 945 6 00000]0915z S2	M8	MON
0910z	23/09[872 945 6 82736 45362 81092 78789 47762 34576 945 6 00000]0915z S1	M8	MON
13365kHz1000z	04/09[729 864 5 74656 66412 90867 75342 74298 864 5 00000(s)] 1005z Strong QRN2 QSB2	Spectre	WED
1000z	11/09[729 864 5 74656 66412 90867 75342 74298 864 5 00000(s)] 1005z Strong QRN2 QSB2	Spectre	WED
13515kHz0940z	06/09[516 473 8 61732 74537 57440 10597 23521 47660 92883 69901 473 8 00000(s)] 0946z Strong QRN2	Spectre	FRI
0940z	13/09[516 473 8 61732 74537 57440 10597 23521 47660 92883 69901 473 8 00000(s)] 0946z Fair QRN2	Spectre	FRI
13565kHz0910z	26/09[167 920 5 43516 25616 56069 96813 14199 920 5 00000]0915z S8	M8	THU
14080kHz0600z	03/09[438 962 5 68672 63912 10544 11160 64385 962 5 00000] via Twente 0605z Very Strong QRM3	AJS	TUE
14212kHz1210z	26/09[425 860 7 06123 22536 88280 84116 53718 78927 34694 860 7 00000]1215z S9	M8	THU
14505kHz1010z	04/09[729 864 5 74656 66412 90867 75342 74298 864 5 00000(s)] 1015z Strong QRN2 QSB2	Spectre	WED
1010z	11/09[729 864 5 74656 66412 90867 75342 74298 864 5 00000(s)] 1015z Strong QRN2 QSB2	Spectre	WED
14580kHz0900z	02/09[872 514 6 21816 42997 94184 47374 74154 08531 514 6 00000]0905z S2	M8	MON
0900z	09/09[872 514 6 21816 42997 94184 47374 74154 08531 514 6 00000]0905z S9	M8	MON
0900z	16/09[872 945 6 82736 45362 81092 78789 47762 34576 945 6 00000]0905z S9	M8	MON
0900z	23/09[872 945 6 82736 45362 81092 78789 47762 34576 945 6 00000]0905z S2	M8	MON
0900z	30/09[872 00000] 0900Z Strong RTTY via Web SDR Twente,NL	Elm	MON

October2013:

6410kHz1000z	15/10[893 241 5 67453 89045 13215 78563 23220 241 5 00000(s)] 1005z Weak QRN3 QSB3	Spectre	TUE
1000z	22/10[893 241 5 67453 89045 13215 78563 23220 241 5 00000(s)] 1005z Weak QRN3 QSB3	Spectre	TUE
6464kHz1500z	15/10[537 204 6 57634 89704 23165 67352 89674 67645 204 6 00000]1505z Fair QRM3 QSB1	JkC	TUE
7242kHz1510z	15/10[537 204 6 57634 89704 23165 67352 89674 67645 204 6 00000]1515z Fair QRM2 QSB1	JkC	TUE
7340kHz1010z	15/10[893 241 5 67453 89045 13215 78563 23220 241 5 00000(s)] 1015z Weak QRN3 QSB3	Spectre	TUE
1010z	22/10[893 241 5 67453 89045 13215 78563 23220 241 5 00000(s)] 1015z Weak QRN3 QSB3	Spectre	TUE
7605kHz0820z	16/10[471 298 5 73645 28989 10926 47783 23989 298 5 00000(s)] 0825z Strong QRN2 QSB2	Spectre	WED
0820z	23/10[471 298 5 73645 28989 10926 47783 23989 298 5 00000(s)] 0825z Fair QRN2 QSB2	Spectre	WED
7795kHz0700z	04/10[196 427 5 34140 78386 91497 82963 24162 427 5 00000] Very strong signal, moderate noise	FR	FRI

8270kHz0840z	14/10[371 286 5 21767 53672 11834 81022 36903 286 5 00000]0845z S1	M8	MON
0840z	21/10[371 too weak to copy]0845z	M8	MON
0840z	28/10[371 too weak to copy]	M8	MON
8695kHz 0710z	04/10[196 427 5 34140 78386 91497 82963 24162 427 5 00000] Very strong signal, weak noise	FR	FRI
8712kHz 0840z	16/10[328 974 5 18264 38477 01928 78435 56422 974 5 00000(s)] 0845z Fair QRN3 QSB3	Spectre	WED
0840z	23/10[328 974 5 18264 38477 01928 78435 56422 974 5 00000(s)] 0845z Fair QRN2 QSB2	Spectre	WED
9145kHz 1200z	07/10[831 960 5 88620 58069 61732 74537 57440 960 5 00000(s)] 1205z Weak QRN3 QSB3	Spectre	MON
1200z	14/10[831 960 5 88620 58069 61732 74537 57440 960 5 00000]1205z S1	M8	MON
1200z	21/10[831 562 7 46186 16945 80744 86200 84706 42227 61736 562 7 00000]1205z S2	M8	MON
1200z	28/10[831 562 7 46186 16945 80744 86200 84706 42227 61736 562 7 00000(s)] 1206z Fair QRN3 QSB3	Spectre	MON
9220kHz0830z	07/10[371 286 5 21767 53672 11834 81022 36903 286 5 00000]	GD	MON
0830z	14/10[371 286 5 21767 53672 11834 81022 36903 286 5 00000]0835z S1	M8	MON
0830z	21/10[371 too weak to copy]0835z	M8	MON
0830z	28/10[371 286 5 16945 80744 86200 847?6 4?28?7 286 5 0000000835z S1	M8	MON
9255kHz 0830z	16/10[471 298 5 73645 28989 10926 47783 23989 298 5 00000(s)] 0835z Fair QRN3 QSB3	Spectre	WED
0830z	23/10[471 298 5 73645 28989 10926 47783 23989 298 5 00000(s)] 0835z Weak QRN3 QSB3	Spectre	WED
9824kHz 0850z	16/10[328 974 5 18264 38477 01928 78435 56422 974 5 00000(s)] 0855z Fair QRN3 QSB3	Spectre	WED
0850z	23/10[328 974 5 18264 38477 01928 78435 56422 974 5 00000(s)] 0855z Fair QRN2 QSB2	Spectre	WED
10420kHz 0810z	01/10[352 910 6 92060 11749 70552 56936 57989 05371 910 6 00000(s)] 0815z Weak QRN3 QSB3	Spectre	TUE
0810z	08/10[352 910 6 92060 11749 70552 56936 57989 05371 910 6 00000(s)] 0815z Weak QRN3 QSB3	Spectre	TUE
0810z	15/10[352 904 6 56434 89784 13254 68734 90785 23218 904 6 00000(s)] 0815z Fair QRN3 QSB3	Spectre	TUE
0810z	22/10[352 904 6 56434 89784 13254 68734 90785 23218 904 6 00000(s)] 0815z Weak QRN3 QSB3	Spectre	TUE
11460kHz 1210z	07/10[831 960 5 88620 58069 61732 74537 57440 960 5 00000(s)] 1215z Fair QRN3 QSB3	Spectre	MON
1210z	14/10[831 960 5 88620 58069 61732 74537 57440 960 5 00000]1215z S3	M8	MON
1210z	21/10[831 562 7 46186 16945 80744 86200 84706 42227 61736 562 7 00000]1215z S4	M8	MON
1210z	28/10[831 562 7 46186 16945 80744 86200 84706 42227 61736 562 7 00000(s)] 1216z Fair QRN3 QSB3	Spectre	MON
11635kHz 0800z	01/10[352 910 6 92060 11749 70552 56936 57989 05371 910 6 00000(s)] 0805z Weak QRN3 QSB3	Spectre	TUE
0800z	08/10[352 910 6 92060 11749 70552 56936 57989 05371 910 6 00000(s)] 0805z Weak QRN3 QSB3	Spectre	TUE
0800z	15/10[352 904 6 56434 89784 13254 68734 90785 23218 904 6 00000(s)] 0805z Fair QRN3 QSB3	Spectre	TUE
0800z	22/10[352 904 6 56434 89784 13254 68734 90785 23218 904 6 00000(s)] 0805z Weak QRN3 QSB3	Spectre	TUE
12140kHz 0930z	18/10[516 904 7 76858 30913 20987 45632 10098 18453 76859 904 7 00000(s)] 0936z Strong QRN2 QSB2	Spectre	FRI
0930z	25/10[516 904 7 76858 30913 20987 45632 10098 18453 76859 904 7 00000]0935z S9+40	M8	FRI
13165kHz 0910z	07/10[872 934 5 46062 68672 97478 39685 30485 934 5 00000(s)] 0915z Fair QRN3 QSB3	Spectre	MON
0910z	14/10[872 934 5 46062 68672 97478 39685 30485 934 5 00000]0915z S7	M8	MON
0910z	21/10[872 519 6 40613 77249 40678 17976 21816 42997 519 6 00000]0915z S9+10	M8	MON
0910z	28/10[872 519 6 40613 77249 40678 17976 21816 42997 519 6 00000]0915z S9	M8	MON
13365kHz1000z	16/10[729 846 5 35389 52816 75903 52810 53861 846 5 00000(s)] 1005z Fair QRN2 QSB3	Spectre	WED
1000z	23/10[729 846 5 35389 52816 75903 52810 53861 846 5 00000(s)] 1005z Strong QRN2 QSB3	Spectre	WED
13515kHz 0940z	18/10[516 904 7 76858 30913 20987 45632 10098 18453 76859 904 7 00000(s)] 0946z Strong QRN2 QSB2	Spectre	FRI
0940z	25/10[516 904 7 76858 30913 20987 45632 10098 18453 76859 904 7 00000]0945z S9+40	M8	FRI
14505kHz1010z	16/10[729 846 5 35389 52816 75903 52810 53861 846 5 00000(s)] 1015 Fair QRN2 QSB3	Spectre	WED
1010z	23/10[729 846 5 35389 52816 75903 52810 53861 846 5 00000(s)] 1015z Strong QRN2 QSB3	Spectre	WED
14580kHz 0900z	07/10[872 934 5 46062 68672 97478 39685 30485 934 5 00000(s)] 0905z Fair RTTYQRM3 QSB3	Spectre	MON
0900z	14/10[872 934 5 46062 68672 97478 39685 30485 934 5 00000]0905z S9	M8	MON
0900z	21/10[872 519 6 40613 77249 40678 17976 21816 42997 519 6 00000]0905z S9+10	M8	MON
0900z	28/10[872 519 6 40613 77249 40678 17976 21816 42997 519 6 00000]0905z S9	M8	MON

S11a[III]

S11a Sept/Oct log:

5815kHz	1020z	14/09 [221/00] Medium signal	Fox	SAT
	1020z	23/10 [221/00] Weak	RNGB	WED
7317kHz	0915z	03/09 [484/00] Fair	RNGB	TUE
	0915z	06/09 [484/00] 0918z Fair QRN2 QSB2	Spectre	FRI
	0915z	10/09 [484/00]	RNGB	TUE
	0915z	04/10 [484/00]	RNGB	THU
	0915z	08/10 [48?/32 11629 94559 15390 71264 12329.....32016] Konec 0925z	RNGB	TUE
	0915z	25/10 [484/00]	Malc, Spectre	FRI
9960kHz	1020z	06/09 [426/00] Konec 1023z S2	Malc	FRI
	1020z	10/09 [426/00]	RNGB	TUE
	1020z	24/09 [426/00]	RNGB	TUE
	1020z	01/10 [429/31 22666 13494 94375 95718 47817.....53697]	RNGB	TUE
	1020z	22/10 [426/00] Good	RNGB, Elmar	TUE
	1020z	25/10 [426/00]	Malc, Spectre	FRI

16112kHz 1015z	02/09 [470/34 30626 63665 62443 00655 10603.....61190]	RNGB, Malc	MON
1015z	05/09 [470/34 30626 etc] repeat of Monday	RNGB	THU
1015z	16/09 [475/00] Konec 1018z S3	Malc	MON
1015z	26/09 [475/00] Good	RNGB, Malc	THU
1015z	30/09 [475/00] Good	RNGB	MON
1015z	07/10 [475/00]	Elmar, Spectre	MON
1015z	14/10 [475/00]	Elmar	MON
1015z	21/10 [477/37 59517 67700 46255 43259 33880.....59738]	RNGB, Malc	MON

S21
September2013:

4454kHz1842z	03/09[454 371 33 71532 ... 80526 371 33 000]	1854z Strong QRM3	FR, Spectre	TUE
4854kHz1842z	03/09[454 371 33 71532 ... 80526 371 33 000] via Twente	1854z Strong QRM3	AJS, FR, JkC	TUE

454 371 33
71532 75729 37770 78082 27931
32905 60172 41137 90007 28665
90779 26223 33113 79822 03569
56249 13797 97798 57789 76182
41662 88507 94294 36239 79913
89716 83208 55819 07778 46038
82939 21287 80526 371 33 000
*Courtesy FR, JkC
Spectre*

4854kHz1842z	10/09[454 371 33 71532.....80526 371 33 000]1854z S4	M8	TUE
1842z	17/09[454 R4m 371 33 71532 75729 . . . 82939 21287 80526 371 33 000] 1854z QSA5 QRM5 QRN55 QSB4	tiNG	TUE
1842z	19/09 Audible, unusable	HJH	THU
1842z	24/09 [too weak to copy]	M8	TUE

October2013:

4454kHz1841z	08/10[454 R4m 892 33 37481 21433 ... 21287 80526 892 33 000] 1854z QSA3 QRM3 QRN5 QSB4	tiNG	TUE
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V02a

SEE SCHEDULE IN CHARTS SECTION

V07
September2013:

14637kHz0320z	22/09[661 661 661 1 (x5) 254 67 (x2) 94005 92277....43374 93223 000 000] QSA2	DanAr	SUN
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661 661 661 1 (x5)
254 67 (x2)
94005 92277 83402 32187 53252
10550 59307 23513 87730 18731
82300 87352 23345 53023 97371
52805 89793 92531 93053 00223
83033 93083 33330 05331 03274
77812 83385 30441 87377 9312?
14372 49524 37109 43941 28798
79828 58000 72314 94070 55037
72838 05340 13087 59092 14137
53437 32845 13319 03738 55293
89952 70789 80070 53724 55775
91417 07939 45003 51432 59125
3971? 45343 10738 03202 29331
43374 93223 000 000
Courtesy DanAr

0320z	29/09[661 661 661 000 x5] QSA 4	DanAr	SUN
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16037kHz0300z	01/09 - very weak signal ; only audio test tones before transmission visible in spectrogram-	DanAr	SUN
0300z	08/09[661 661 661 000 R5]Test audio tones are fine , message audio is too weak.	DanAr	SUN
0300z	15/09[661 661 661 000x5] Only heard 000 ; very weak signal. QSA 1	DanAr	SUN
0300z	29/09[661 661 661 000 x5] QSA 3	DanAr	SUN

October2013:

14374kHz0140z	13/10[883 883 883 1 ??? x5] QSA 1	DanAr	SUN
15874kHz0120z	06/10[883 883 883 000 x5] QSA 3	DanAr	SUN
0120z	13/10[883 883 883 1 ??? x5] QSA 1	DanAr	SUN
0120z	20/10[883 883 883 000 x5] QSA 3	DanAr	SUN
0120z	27/10[883 883 883 000 x5] QSA 3	DanAR	SUN
18074kHz0100z	06/10[883 883 883 000 x5] QSA 2 -Frequency inside amateur band 17 meters-	DanAr	SUN
0100z	13/10[883 883 883 1 ??? x5] QSA 1 Freq inside 17M band	DanAr	SUN
0100z	20/10[883 883 883 000 x5] QSA 2	DanAr	SUN
0100z	27/10[883 883 883 000 x5] QSA 3	DanAR	SUN

V13 No reports

V21 Babblers

It seems The Babblers are back with us after very few loggings over the past several months.

The transmissions on 6529kHz have been the only ones heard lately. They normally consist of a SS/OM counting to various numbers starting at 1 and pausing every 10.

The numbers listed in the logs are the numbers counted to before returning to 1.

6529kHz1315z	25/08 Too weak to copy but definitely the Babblers.	SUN
6529kHz1305z	26/08 Only one number heard (30) when a weak voice suddenly appeared out of the background noise.	MON
6529kHz1305z	02/09 SS/OM appears counting from 51-59 then nothing else heard.	MON
6529kHz1300z	11/10 Found in progress [Count to 20 heard 20, 100 Then became very weak but believe another count to 100 occurred.] FRI	
6529kHz1300z	13/10[10, 40, 50, 20, END] TX lasted 2 minutes 30 seconds.	SUN
6529kHz1300z	14/10[50, 40, 40, 50, 20 END]	MON
6529kHz1300z	17/10[30 (Too weak to copy for 2 minutes) 10, 40, 20 (Too weak to copy for 2 minutes), 20 Continues for several more minutes but too weak to copy. END] Very Weak.	THU
6529kHz1300z	21/10[20, 50, 50, 40, 50, 50, 40, 40, 40, 40, 30, 40, 50, 30, 40] becomes too weak to copy. TX lasted approximately 15 minutes	MON
6529kHz1300z	23/10 Very weak. counts to 30 and 50 heard. TX lasted approximately 5 minutes.	WED
6529kHz1300z	25/10[60, 80, 60, 60, 90, 90, 80, 50, 40, 70, 70, 50, 70, 50, 40, 20 END] TX lasted 20 Minutes.	FRI
6529kHz1300z	27/10[20, 50, 50, 40, 50, 20, 40, 50, 30, 50, Becomes too weak to copy and ends about 2 minutes later].	SUN

V22 No reports

V24 No reports

V30 No reports

Polytones:

XPA c

September 2013:

10359kHz0600z	04/09[355 1 08642 00183 08930 06434] Very strong	(4m18s)	PLdn	WED
11559kHz0620z	04/09[355 1 08642 00183 08930 06434] Very strong	(4m18s)	PLdn	WED
13559kHz0640z	04/09[355 1 08642 00183 08930 06434] Very strong, QSB3	(4m18s)	PLdn	WED
10359kHz0600z	07/09[355 1 08642 00183 08930 06434] Very strong	(4m18s)	PLdn	SAT
11559kHz0620z	07/09[355 1 08642 00183 08930 06434] Very strong	(4m18s)	PLdn	SAT
13559kHz0640z	07/09[355 1 08642 00183 08930 06434] Very strong	(4m18s)	PLdn	SAT
10359kHz0600z	11/09[355 1 08642 00183 08930 06434] Very strong	(4m18s)	PLdn	WED
11559kHz0620z	11/09[355 1 08642 00183 08930 06434] Fair	(4m18s)	PLdn	WED
13559kHz0640z	11/09[355 1 08642 00183 08930 06434] Fair	(4m18s)	PLdn	WED
10359kHz0600z	14/09[355 000 05851 00001 00000 10140] Weak, QSB3	(2m26s)	PLdn	SAT
11559kHz0620z	14/09[355 000 05851 00001 00000 10140] Weak	(2m26s)	PLdn	SAT
13559kHz0640z	14/09[355 000 05851 00001 00000 10140] Strong	(2m26s)	PLdn	SAT
10359kHz0600z	18/09[355 1 00599 00105 79858 22014] Weak and noisy	(3m32s)	PLdn, E	WED
11559kHz0620z	18/09[355 1 00599 00105 79858 22014] Fair	(3m32s)	PLdn	WED
13559kHz0640z	18/09[355 1 00599 00105 79858 22014] Fair	(3m32s)	PLdn	WED
10359kHz0600z	21/09[355 1 00599 00105 79858 22014] Strong	(3m32s)	PLdn	SAT
11559kHz0620z	21/09[355 1 00599 00105 79858 22014] Strong	(3m32s)	PLdn	SAT
13559kHz0640z	21/09[355 1 00599 00105 79858 22014] Fair, 1328HzQRM3	(3m32s)	PLdn	SAT
10359kHz0600z	25/09[355 1 00603 00099 37540 27764] Very strong	(3m26s)	PLdn	WED
11559kHz0620z	25/09[355 1 00603 00099 37540 27764] Very strong	(3m26s)	PLdn	WED
13559kHz0640z	25/09[355 1 00603 00099 37540 27764] Very strong	(3m26s)	PLdn	WED
10359kHz0600z	28/09[355 1 00603 00099 37540 27764] Very strong	(3m26s)	PLdn	SAT

11559kHz0620z	28/09[355 1 00603 00099 37540 27764] Very strong	(3m26s)	PLdn	SAT
13559kHz0640z	28/09[355 1 00603 00099 37540 27764] Very strong	(3m26s)	PLdn	SAT
<u>October2013:</u>				
10868kHz0600z	02/10[813 000 08293 00001 00000 10140] Very strong	(2m26s)	PLdn	WED
12168kHz0620z	02/10 Very weak, unuseable		PLdn	WED
13368kHz0640z	02/10 Very weak, unuseable		PLdn	WED
10868kHz0600z	05/10[813 000 09981 00001 00000 10140] Very strong	(2m26s)	PLdn	SAT
12168kHz0620z	05/10[813 000 09981 00001 00000 10140] Very strong	(2m26s)	PLdn	SAT
13368kHz0640z	05/10[813 000 09981 00001 00000 10140] Very strong	(2m26s)	PLdn	SAT
10868kHz0600z	09/10 NRH Freqs checked		PLdn	WED
12168kHz0620z	09/10 NRH Freqs checked		PLdn	WED
13368kHz0640z	09/10 NRH Freqs checked		PLdn	WED
10868kHz0600z	12/10[813 1 03945 00139 12328 45475] Very strong	(3m52s)	PLdn	SAT
12168kHz0620z	12/10[813 1 03945 00139 12328 45475] Very strong, QSB2	(3m52s)	PLdn, E	SAT
13368kHz0640z	12/10[813 1 03945 00139 12328 45475] Very strong	(3m52s)	PLdn	SAT
10868kHz0600z	16/10[813 000 07849 00001 00000 10140] Very strong	(2m26s)	PLdn, EL	WED
12168kHz0620z	16/10[813 000 07849 00001 00000 10140] Very strong	(2m26s)	PLdn	WED
13368kHz0640z	16/10[813 000 07849 00001 00000 10140] Very strong	(2m26s)	PLdn	WED
10868kHz0600z	19/10[813 000 03665 00001 00000 10140] Very strong, QSB2	(2m26s)	PLdn	SAT
12168kHz0620z	19/10[813 000 03665 00001 00000 10140] Very strong	(2m26s)	PLdn, NDL	SAT
13368kHz0640z	19/10[813 000 03665 00001 00000 10140] Very strong	(2m26s)	PLdn, NDL	SAT
10868kHz0600z	23/10[813 1 01387 00091 96418 56722] Very strong	(3m21s)	PLdn, NDL	WED
12168kHz0620z	23/10[813 1 01387 00091 96418 56722] Very strong	(3m21s)	PLdn, NDL, E	WED
13368kHz0640z	23/10[813 1 01387 00091 96418 56722] Very strong	(3m21s)	PLdn, NDL	WED
10868kHz0600z	26/10[813 1 01387 00091 96418 56722] Strong	(3m21s)	PLdn	SAT
12168kHz0620z	26/10[813 1 01387 00091 96418 56722] Very strong	(3m21s)	PLdn	SAT
13368kHz0640z	26/10[813 1 01387 00091 96418 56722] Very strong	(3m21s)	PLdn	SAT
10868kHz0600z	30/10[813 1 07203 00155 51346 57165] Very strong	(4m00s)	PLdn	WED
12168kHz0620z	30/10[813 1 07203 00155 51346 57165] Very strong	(4m00s)	PLdn	WED
13368kHz0640z	30/10[813 1 07203 00155 51346 57165] Very strong	(4m00s)	PLdn	WED
<u>XPA e</u>				
<u>September2013:</u>				
11576kHz1900z	03/09[542 000 08042 00001 00000 10140] Strong	(2m26s)	JkC, PLdn	TUE
10476kHz1920z	03/09[542 000 08042 00001 00000 10140] Weak	(2m26s)	JkC,DanAr	TUE
9276kHz1940z	03/09[542 000 08042 00001 00000 10140] Weak	(2m26s)	JkC, PLdn	TUE
XPA 11576kHz/10476kHz/9276kHz 1900z/1920z/1940z 3/9 Rivet (Build 84) by Ian Wraith 1:00:10 PM XPA Start Tones Found (correcting by 5 Hz) 1:02:02 PM High sync tone found 1:02:03 PM Symbol timing found Block Sync 4444444444 Block Sync 542 542 542 000 542 542 542 000 542 542 000 Block Sync 44444444 Block Sync 6 Message Start 08042 00001 00000 10140 <i>Courtesy JkC, DanAr</i>				
11576kHz1900z	05/09[542 000 07106 00001 00000 10140] Weak	(2m26s)	PLdn	THU
10476kHz1920z	05/09[542 000 07106 00001 00000 10140] Very weak	(2m26s)	PLdn	THU
9276kHz1940z	05/09[542 000 07106 00001 00000 10140] Extremely weak	(2m26s)	PLdn	THU
11576kHz1900z	10/09[542 1 08229 00289 64017 01661] Strong, QSB3	(5m24s)	PLdn	TUE
10476kHz1920z	10/09[542 1 08229 00289 64017 01661] Fair, QSB2	(5m24s)	PLdn	TUE
9276kHz1940z	10/09[542 1 08229 00289 64017 01661] Fair	(5m24s)	PLdn	TUE
11576kHz1900z	12/09[542 1 08229 00289 64017 01661] Very weak, odd characters missed	(5m24s)	PLdn	THU
10476kHz1920z	12/09[542 1 08229 00289 64017 01661] Weak, QSB3	(5m24s)	PLdn	THU
9276kHz 1940z	12/09[542 1 08229 00289 64017 01661] Fair, QSB2	(5m24s)	PLdn	THU

11576kHz1900z	17/09[542 000 04851 00001 00000 10140] Fair	(2m26s)	PLdn	TUE
10476kHz1920z	17/09[542 000 04851 00001 00000 10140] Weak	(2m26s)	PLdn, ndl	TUE
9276kHz1940z	17/09[542 000 04851 00001 00000 10140] Fair	(2m26s)	PLdn, ndl	TUE
11576kHz1900z	19/09[542 000 07039 00001 00000 10140] Weak, QSB3	(2m26s)	PLdn	THU
10476kHz1920z	19/09[542 000 07039 00001 00000 10140] Weak, QSB3	(2m26s)	PLdn	THU
9276kHz1940z	19/09[542 000 07039 00001 00000 10140] Strong, QSB3	(2m26s)	PLdn	THU
11576kHz1900z	24/09[542 1 05482 00267 15400 64700] Fair and noisy, QSB3	(5m11s)	RNGB,PLdn	TUE
10476kHz1920z	24/09[542 1 05482 00267 15400 64700] Weak	(5m11s)	PLdn	TUE
9276kHz1940z	24/09[542 1 05482 00267 15400 64700] Weak	(5m11s)	PLdn	TUE
11576kHz1900z	26/09[542 1 05482 00267 15400 64700] Fair	(5m11s)	PLdn	THU
10476kHz1920z	26/09[542 1 05482 00267 15400 64700] Weak	(5m11s)	PLdn	THU
9276kHz1940z	26/09[542 1 05482 00267 15400 64700] Weak	(5m11s)	PLdn	THU

October2013:

9362kHz1900z	01/10[304 000 03053 00001 00000 10140] Fair, PULSEQRM3 distorting signal	(2m26s)	PLdn	TUE
8062kHz1920z	01/10[304 000 03053 00001 00000 10140] Fair, PULSEQRM3 distorting signal	(2m26s)	PLdn	TUE
7462kHz1940z	01/10[304 000 03053 00001 00000 10140] Strong, PULSEQRM3	(2m26s)	PLdn	TUE
9362kHz1900z	03/10[304 000 02285 00001 00000 10140] Very weak	(2m26s)	PLdn	THU
8062kHz1920z	03/10[304 000 02285 00001 00000 10140] Fair	(2m26s)	PLdn	THU
7462kHz1940z	03/10[304 000 02285 00001 00000 10140] Strong, BCQRM2	(2m26s)	PLdn	THU
9362kHz1900z	08/10[304 1 01560 00221 81552 42120] Weak	(4m44s)	PLdn, tING	TUE
8062kHz1920z	08/10[304 1 01560 00221 81552 42120] Strong	(4m44s)	PLdn, tING	TUE
7462kHz1940z	08/10[304 1 01560 00221 81552 42120] Fair, BCQRM3	(4m44s)	PLdn, tING	TUE
9362kHz 1900z	10/10[304 1 01560 00221 81552 42240] Weak & noisy	(4m44s)	PLdn	THU
8062kHz 1920z	10/10[304 1 01560 00221 81552 42120] Fair, PLASMAQRM3	(4m44s)	PLdn	THU
7462kHz 1940z	10/10[304 1 01560 00221 81552 42120] Strong, BCQRM2	(4m44s)	PLdn	THU
9362kHz1900z	15/10[304 000 01234 00001 00000 10140] Very strong	(2m26s)	PLdn	TUE
8062kHz1920z	15/10[304 000 01234 00001 00000 10140] Fair	(2m26s)	PLdn	TUE
7462kHz1940z	15/10[304 000 01234 00001 00000 10140] Fair, BCQRM3	(2m26s)	PLdn	TUE
9362kHz1900z	17/10[304 000 07445 00001 00000 10140] Fair	(2m26s)	PLdn	THU
8062kHz1920z	17/10[304 000 07445 00001 00000 10140] Fair	(2m26s)	PLdn	THU
7462kHz1940z	17/10[304 000 07445 00001 00000 10140] Fair, BCQRM3	(2m26s)	PLdn	THU
9362kHz1900z	22/10[304 000 08392 00001 00000 10140] Very strong	(2m26s)	PLdn	TUE
8062kHz1920z	22/10[304 000 08392 00001 00000 10140] Very strong	(2m26s)	PLdn	TUE
7462kHz1940z	22/10[304 000 08392 00001 00000 10140] Very strong	(2m26s)	PLdn	TUE
9362kHz1900z	24/10[304 000 05624 00001 00000 10140] Strong, QSB2	(2m26s)	PLdn	THU
8062kHz1920z	24/10[304 000 05624 00001 00000 10140] Strong	(2m26s)	PLdn	THU
7462kHz1940z	24/10[304 000 05624 00001 00000 10140] Strong, BCQRM2	(2m26s)	PLdn	THU
9362kHz1900z	29/10[304 1 02545 00263 84778 55504] Weak and noisy	(5m05s)	PLdn	TUE
8062kHz1920z	29/10[304 1 02545 00263 84778 55504] Weak and noisy	(5m05s)	PLdn	TUE
7462kHz1940z	29/10[304 1 02545 00263 84778 55504] Weak and noisy	(5m05s)	PLdn	TUE
9362kHz1900z	31/10[304 1 02545 00263 84778 55504] Very weak and noisy	(5m05s)	PLdn	THU
8062kHz1920z	31/10[304 1 02545 00263 84778 55504] Fair, QRM2	(5m05s)	PLdn	THU
7462kHz1940z	31/10[304 1 02545 00263 84778 55504] Weak, QRM2	(5m05s)	PLdn	THU

XPA2m

September2013:

Sun/Tue

14538kHz1800z	01/09[08457 00001 00000 10140] Strong	(2m11s)	PLdn	SUN
13538kHz1820z	01/09[08457 00001 00000 10140] Very strong	(2m11s)	PLdn	SUN
12138kHz1840z	01/09[08457 00001 00000 10140] Very strong	(2m11s)	PLdn	SUN
14538kHz1800z	03/09[03700 00001 00000 10140] Fair	(2m11s)	PLdn	TUE
13538kHz1820z	03/09[03700 00001 00000 10140] Fair	(2m11s)	PLdn, Kopf	TUE
12138kHz1840z	03/09[03700 00001 00000 10140] Strong	(2m11s)	PLdn	TUE
14538kHz1800z	08/09[05879 00001 00000 10140] Very strong	(2m11s)	PLdn	SUN
13538kHz1820z	08/09[05879 00001 00000 10140] Very strong	(2m11s)	PLdn	SUN
12138kHz1840z	08/09[05879 00001 00000 10140] Very strong	(2m11s)	PLdn	SUN

14538kHz1800z	10/09[01266 00001 00000 10140] Very strong	(2m11s)	PLdn	TUE
13538kHz1820z	10/09[01266 00001 00000 10140] Very strong	(2m11s)	PLdn	TUE
12138kHz1840z	10/09[01266 00001 00000 10140] Very strong	(2m11s)	PLdn	TUE
14538kHz1800z	15/09[03899 00001 00000 10140] Very weak	(2m11s)	PLdn	SUN
13538kHz1820z	15/09[03899 00001 00000 10140] Weak	(2m11s)	PLdn	SUN
12138kHz1840z	15/09[03899 00001 00000 10140] Fair	(2m11s)	PLdn	SUN
14538kHz1800z	17/09[05642 00001 00000 10140] Fair	(2m11s)	PLdn	TUE
13538kHz1820z	17/09[05642 00001 00000 10140] Fair	(2m11s)	PLdn	TUE
12138kHz1840z	17/09[05642 00001 00000 10140] Fair	(2m11s)	PLdn	TUE
14538kHz1800z	22/09[08659 00079 82771 30170] Weak, noisy	(3m12s)	PLdn	SUN
13538kHz1820z	22/09[08659 00079 82771 30170] Weak, noisy	(3m12s)	PLdn	SUN
12138kHz1840z	22/09[08659 00079 82771 30170] Fair	(3m12s)	PLdn	SUN
14538kHz1800z	24/09[08659 00079 82771 30170] Fair	(3m12s)	RNGB,PLdn	TUE
13538kHz1820z	24/09[08659 00079 82771 30170] Weak	(3m12s)	PLdn	TUE
12138kHz1840z	24/09[08659 00079 82771 30170] Fair	(3m12s)	PLdn	TUE
14538kHz1800z	29/09[02275 00001 00000 10140] Very strong	(2m11s)	PLdn	SUN
13538kHz1820z	29/09[02275 00001 00000 10140] Weak	(2m11s)	PLdn	SUN
12138kHz1840z	29/09[02275 00001 00000 10140] Strong	(2m11s)	PLdn	SUN

October2013:

16338kHz1500z	01/10[09133 00001 00000 10140] Very strong	(2m11s)	PLdn	TUE
14538kHz1520z	01/10[09133 00001 00000 10140] Very strong	(2m11s)	PLdn	TUE
13538kHz1540z	01/10[09133 00001 00000 10140] Very strong	(2m11s)	PLdn	TUE
16338kHz1500z	06/10[09133 00001 00000 10140] Weak	(2m11s)	PLdn	SUN
14538kHz1520z	06/10[09133 00001 00000 10140] Strong	(2m11s)	PLdn	SUN
13538kHz1540z	06/10[09133 00001 00000 10140] Very strong	(2m11s)	PLdn	SUN
16338kHz1500z	08/10[01502 00001 00000 10140] Very strong, QSB	(2m11s)	BR,PLdn	TUE
14538kHz1520z	08/10[01502 00001 00000 10140] Very strong	(2m11s)	BR,PLdn	TUE
13538kHz1540z	08/10[01502 00001 00000 10140] Very strong	(2m11s)	PLdn	TUE
16338kHz1500z	13/10[03275 00001 00000 10140] Very strong	(2m11s)	PLdn	SUN
14538kHz1520z	13/10[03275 00001 00000 10140] Very strong	(2m11s)	PLdn	SUN
13538kHz1540z	13/10[03275 00001 00000 10140] Very strong	(2m11s)	PLdn	SUN
16338kHz1500z	15/10[03749 00001 00000 10140] Very strong	(2m11s)	PLdn	TUE
14538kHz1520z	15/10[03749 00001 00000 10140] Very strong	(2m11s)	PLdn	TUE
13538kHz1540z	15/10[03749 00001 00000 10140] Very strong, QRM2	(2m11s)	PLdn	TUE
16338kHz1500z	20/10[02323 00095 10722 15316] Strong	(3m25s)	PLdn	SUN
14538kHz1520z	20/10[02323 00095 10722 15316] Fair, QRN3	(3m25s)	PLdn	SUN
13538kHz1540z	20/10[02323 00095 10722 15316] Strong	(3m25s)	PLdn	SUN
16338kHz1500z	22/10[02323 00095 10722 15316] Very strong	(3m25s)	PLdn	TUE
14538kHz1520z	22/10[02323 00095 10722 15316] Very strong	(3m25s)	PLdn	TUE
13538kHz1540z	22/10[02323 00095 10722 15316] Very strong	(3m25s)	PLdn	TUE
16338kHz1500z	27/10[07944 00001 00000 10140] Strong	(2m11s)	PLdn	SUN
14538kHz1520z	27/10[07944 00001 00000 10140] Fair	(2m11s)	PLdn	SUN
13538kHz1540z	27/10[07944 00001 00000 10140] Strong	(2m11s)	PLdn	SUN
16338kHz1500z	29/10[06650 00001 00000 10140] Strong	(2m11s)	PLdn	TUE
14538kHz1520z	29/10[06650 00001 00000 10140] Strong	(2m11s)	PLdn	TUE
13538kHz1540z	29/10[06650 00001 00000 10140] Strong	(2m11s)	PLdn	TUE

XPA2 r

September2013:

Fri/Sat

16167kHz1900z	06/09[04587 00067 19729 05230] Very strong slight QSB	(3m02s)	BR	FRI
14663kHz1920z	06/09[04587 00067 19729 05230] Very strong Deep QSB	(3m02s)	BR	FRI
13923kHz1940z	06/09[04587 00067 19729 05230] Very strong	(3m02s)	BR	FRI
16167kHz1900z	07/09[04587 00067 19729 05230] Very strong slight QSB	(3m02s)	BR	SAT
14663kHz1920z	07/09[04587 00067 19729 05230] Very strong	(3m02s)	BR	SAT
13923kHz1940z	07/09[04587 00067 19729 05230] Very strong	(3m02s)	BR	SAT

16167kHz1900z	13/09[05193 00085 21223 31263] Strong	(3m16s)	PLdn	FRI
14663kHz1920z	13/09[05193 00085 21223 31263] Strong	(3m16s)	PLdn	FRI
13923kHz1940z	13/09[05193 00085 21223 31263] Very strong	(3m16s)	PLdn	FRI
16167kHz1900z	14/09[05193 00085 21223 31263] Strong	(3m16s)	PLdn	SAT
14663kHz1920z	14/09[05193 00085 21223 31263] Strong	(3m16s)	PLdn	SAT
13923kHz1940z	14/09[05193 00085 21223 31263] Strong	(3m16s)	PLdn	SAT
16167kHz1900z	20/09[00594 00153 24647 41645] Strong, QRM2	(4m08s)	PLdn	FRI
14663kHz1920z	20/09[00594 00153 24647 41645] Strong, QRM2	(4m08s)	PLdn	FRI
13923kHz1940z	20/09[00594 00153 24647 41645] Strong, QRM2	(4m08s)	PLdn	FRI
16167kHz1900z	21/09[00594 00153 24647 41645] Very strong	(4m08s)	PLdn	SAT
14663kHz1920z	21/09[00594 00153 24647 41645] Strong	(4m08s)	PLdn	SAT
13923kHz1940z	21/09[00594 00153 24647 41645] Strong	(4m08s)	PLdn	SAT
16167kHz1900z	27/09[01033 00147 02390 26666] Strong	(4m04s)	PLdn	FRI
14663kHz1920z	27/09[01033 00147 02390 26666] Very strong	(4m04s)	PLdn	FRI
13923kHz1940z	27/09[01033 00147 02390 26666] Very strong	(4m04s)	PLdn	FRI
16167kHz1900z	28/09[01033 00147 02390 26666] Very strong	(4m04s)	PLdn	SAT
14663kHz1920z	28/09[01033 00147 02390 26666] Very strong	(4m04s)	PLdn	SAT
13923kHz1940z	28/09[01033 00147 02390 26666] Very strong	(4m04s)	PLdn	SAT

October2013:

17462kHz1400z	04/10[02513 00091 69497 70322] Very strong	(3m21s)	PLdn	FRI
16114kHz1420z	04/10[02513 00091 69497 70322] Very strong	(3m21s)	PLdn	FRI
14828kHz1440z	04/10[02513 00091 69497 70322] Very strong	(3m21s)	PLdn	FRI
17462kHz1400z	05/10[02513 00091 69497 70322] Weak	(3m21s)	PLdn	SAT
16114kHz1420z	05/10[02513 00091 69497 70322] Strong	(3m21s)	PLdn	SAT
14828kHz1440z	05/10[02513 00091 69497 70322] Fair	(3m21s)	PLdn	SAT
17462kHz1400z	11/10[03054 00135 73593 45475] Very strong	(3m54s)	PLdn	FRI
16114kHz1420z	11/10[03054 00135 73593 45475] Very strong	(3m54s)	PLdn	FRI
14828kHz1440z	11/10[03054 00135 73593 45475] Very strong	(3m54s)	PLdn	FRI
17462kHz1400z	12/10[03054 00135 73593 45475] Very strong	(3m54s)	PLdn	SAT
16114kHz1420z	12/10[03054 00135 73593 45475] Very strong	(3m54s)	PLdn	SAT
14828kHz1440z	12/10[03054 00135 73593 45475] Very strong	(3m54s)	PLdn	SAT
17462kHz1400z	18/10[00882 00161 20836 07541] Very strong	(4m11s)	BR, PLdn	FRI
16114kHz1420z	18/10[00882 00161 20836 07541] Very strong	(4m11s)	BR, PLdn	FRI
14828kHz1440z	18/10[00882 00161 20836 07541] Very strong	(4m11s)	BR, PLdn	FRI
17462kHz1400z	19/10[00882 00161 20836 07541] Very strong	(4m11s)	BR, PLdn	SAT
16114kHz1420z	19/10[00882 00161 20836 07541] Very strong	(4m11s)	BR, PLdn	SAT
14828kHz1440z	19/10[00882 00161 20836 07541] Very strong	(4m11s)	BR, PLdn	SAT
17462kHz1400z	25/10[05931 00111 66697 67402] Very strong	(3m36s)	PLdn	FRI
16114kHz1420z	25/10[05931 00111 66697 67402] Very strong	(3m36s)	PLdn	FRI
14828kHz1440z	25/10[05931 00111 66697 67402] Very strong	(3m36s)	PLdn	FRI
17462kHz1400z	26/10[05931 00111 66697 67402] Very strong	(3m36s)	PLdn, tiNG	SAT
16114kHz1420z	26/10[05931 00111 66697 67402] Very strong	(3m36s)	PLdn, tiNG	SAT
14828kHz1440z	26/10[05931 00111 66697 67402] Very strong	(3m36s)	PLdn	SAT

XPA2 unclassified

September2013: None apparent

Others:

September2013:

Tue/Fri

21857kHz0700z	03/09[00710 00267 14490 72246] Fair signal	(5m36s)	RNGB	TUE
19557kHz0720z	03/09[00710 00267 14490 72246] Fair signal	(5m36s)	RNGB	TUE
18057kHz0740z	03/09[00710 00267 14490 72246] Fair signal	(5m36s)	RNGB	TUE
21857kHz0700z	06/09 NRH	(5m36s)	PLdn	FRI
19557kHz0720z	06/09[00710 00267 14490 72246] Fair, QSB2/3	(5m36s)	PLdn	FRI

18057kHz0740z	06/09[00710 00267 14490 72246] Very weak, QSB4	(5m36s)	PLdn	FRI
21857kHz0700z	10/09[00966 00241 91414 35722] Very weak, QSB4 unsure of figs.	(5m36s)	PLdn	TUE
19557kHz0720z	10/09[00966 00241 91414 35722] Very weak, QSB4 unsure of figs.	(5m36s)	PLdn	TUE
18057kHz0740z	10/09[00966 00241 91414 35722] Very weak, QSB4 unsure of figs.	(5m36s)	PLdn	TUE
21857kHz0700z	13/09 NRH		PLdn	FRI
19557kHz0720z	13/09 NRH		PLdn	FRI
18057kHz0740z	13/09[03197 00001 00000 10140] Very weak, unsure of figs.	(2m11s)	RNGB	FRI
21857kHz0700z	20/09 NRH		PLdn	FRI
19557kHz0720z	20/09 NRH		PLdn	FRI
18057kHz0740z	20/09[00428 00135 99843 31104] Fair	(3m54s)	PLdn	FRI
21857kHz0700z	24/09 NRH		PLdn	TUE
19557kHz0720z	24/09 Very weak, QSB to nil	(4m27s)	PLdn	TUE
18057kHz0740z	24/09 Very weak, QSB to nil	(4m27s)	PLdn	TUE
21857kHz0700z	27/09 NRH		PLdn	FRI
19557kHz0720z	27/09 Very weak Not processed		PLdn	FRI
18057kHz0740z	27/09[00396 00177 17820 57577] Weak	(4m27s)	PLdn	FRI

October2013:

20841kHz0700z	01/10[00843 00213 61335 45226] Good	(4m55s)	RNGB	TUE
20841kHz0700z	08/10[00134 00259 25613 75057]	(5m 30s)	RNGB	TUE

This schedule missing since May:

16147kHz1500z	11/10[txt not decoded]		FN	FRI
14947kHz1520z	11/10[txt not decoded]		FN	FRI
14447kHz1540z	11/10[txt not decoded]		FN	FRI
16147kHz1500z	18/10[02961 00001 00000 10140] Very strong	(2m11s)	BR, PLdn	FRI
14947kHz1520z	18/10[02961 00001 00000 10140] Very strong	(2m11s)	BR, PLdn	FRI
14447kHz1540z	18/10[02961 00001 00000 10140] Very strong	(2m11s)	BR, PLdn	FRI
16147kHz1500z	20/10[04800 00001 00000 10140] Very strong	(2m11s)	BR, PLdn	SUN
14947kHz1520z	20/10[04800 00001 00000 10140] Very strong	(2m11s)	BR, PLdn	SUN
14447kHz1540z	20/10[04800 00001 00000 10140] Very strong	(2m11s)	BR, PLdn	SUN
16147kHz1500z	25/10 NRH		PLdn	FRI
14947kHz1520z	25/10[01438 00241 00207 75170] Very strong	(5m19s)	PLdn	FRI
14447kHz1540z	25/10[01438 00241 00207 75170] Very strong	(5m19s)	PLdn	FRI
16147kHz1500z	27/10[01438 00241 00207 75170] Very strong	(5m19s)	PLdn	SUN
14947kHz1520z	27/10[01438 00241 00207 75170] Very strong	(5m19s)	PLdn	SUN
14447kHz1540z	27/10[01438 00241 00207 75170] Very strong	(5m19s)	PLdn	SUN

Two rare catches for ENIGMA2000:

Crowd 36

17434kHz1012z	25/10 [In Progress] 1014z Strong QRN2 QSB2		Spectre	FRI
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XSL the slot machine:

6417kHz1723z	17/10 The Slot machine		Chr	THU
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Many thanks to all our corresponding members for ntheir logs and analysis

Digital, Incursions and Unexplained Signals

I'm pleased to say that the last couple of months has attracted a couple more group members to the fascinating world of FSK200/1000 monitoring. As a result some interesting new discoveries have been made.

Events began when I had to take days holiday from work in early October. This enabled me to do some rare daytime weekday monitoring and at lunch time I found the 12:00/12:10/12:20 FSK200/1000 schedule using 11173 KHz , 9246 KHz and 7611 KHz respectively with a message on that day to link ID 45137. Since then automatic monitoring has revealed that this schedule operates as it did the last time I found it earlier in the year operating every Monday , Tuesday , Wednesday and Thursday sending messages to link IDs 45136 and 45137. A few days after this discovery new group data monitor

Nicolas rediscovered another FSK200/1000 schedule which had been found earlier in the year then lost again. This is the 07:00/07:10/07:20 schedule which Nicolas found on 10540 KHz , 8112 KHz and 6790 KHz respectively. This schedule also transmits on Mondays , Tuesdays , Wednesdays and Thursdays carrying the same message as the 12:00/12:10/12:20 schedule. So the recipients of this messages have two chances a day of receiving them. This indicates to me that the message is being sent “blind” and that the recipient has no way of signalling back the message has been received (or is unable to as to preserve their security). The lack of a Friday transmission is also telling since the other regular weekday schedule the 02:00 (which group member DanielAR keeps a very close eye on) transmits every weekday including Friday. The lack of the Friday transmission plus the frequencies used makes me wonder if link ID 45136/45137 is located in an Arab country where Friday is usually a public holiday.

In addition I found yet another FSK200/1000 transmission during October which is the Saturday only 15:00/15:10/15:20 transmission to link ID 32821. The two messages I have seen sent on this schedule so far were both 4 block nulls which makes it similar to the Sunday 15:30/15:40/15:50 schedule to link ID 20501 which also usually sends null messages. What is odd about the link ID 32821 is high frequencies used with the 15:10 transmission on 20461 KHz and the 15:20 on 18356 KHz (I was unable to find the 15:00 transmission which was likely to use a frequency in the 21000 to 22000 KHz range. These are the highest frequencies I have seen used by this mode and indicate the recipient is some distance from the transmitting station.

Note that FSK200/1000 frequencies change monthly so by the time this newsletter is out the October frequencies will no longer be in use.

So that means the currently active FSK200/1000 schedules are as follows ..

Link ID	Day	Time
20501	Sunday	15:30/15:40/15:50
32821	Saturday	15:00/15:10/15:20
36882	Weekends	11:00/11:10/11:20
41018	Weekdays	02:00/02:10/02:30
45057	Alternate Weekends	09:00/09:10/09:20
45114/45115	Weekends	08:00/08:10/08:20
45136/45137	Weekdays (except Friday)	07:00/07:10/07:20 + 12:00/12:10/12:20

The schedules which sent messages to two link IDs 45114/45115 and 45136/45137 are what I have dubbed “twins”. Initially I thought these were just link IDs which had a low traffic levels and so shared frequencies. However I have noticed that these twin link IDs send messages to following message numbers. Now just to explain FSK200/1000 message numbers increase by two with each message (I have no idea why this is) like this ..

Date	Link ID	Message Number
Saturday 19th Oct 2013	36882	90
Saturday 26th Oct 2013	36882	92

The same behaviour is seen with the “twins” ..

Date	Link ID	Message Number
Monday 7th October 2013	45136	120
Tuesday 8th October 2013	45137	122

So the “twins” are either the same person/unit/organisation but if

this is the case why have two different link IDs ? or they are different people/units/organisations but share the same communications facility.

Readers interested in monitoring the data modes are reminded that the latest FSK200/1000 monthly frequencies can be found on my online spreadsheet ..

<http://goo.gl/i6ZXE1>

I remain convinced that there are many other FSK200/1000 schedules out there and we need more monitors listening out for them and sending their logs to the group. Remember that this mode can be partially decoded by Rivet the free and open source HF decoder which can be downloaded from ..

<http://borg.shf.ac.uk/rivet/>

Thanks Digi Desk

Now a special before we proceed further:

A Tale of Avian Spies, Monitoring Tags, Silly Season Stories & Monkey Hangers

UKAnon

One of the pleasures of being retired is being able to spend some time looking through the morning online newspapers with a cup of coffee to hand, where now & again as the odd spy related story appears & if considered of interest, is of course passed to the ENIGMA editors for inclusion in the next newsletter.

In late summer this year two unrelated - but very similar stories appeared regarding the arrest of wild birds suspected of being spies, in the first case the subject was a kestrel, & in the second story a stork.

Under the headline 'Kestrel suspected of being Israeli spy by Turkish authorities turns out to be just a bird' The Independent reported on Fri 26 July that a kestrel was captured by residents of Altinavva - a village in the Elzig province of Turkey, found to be wearing a Tag marked '24311 Tel Avivunia, Israel' & promptly handed over to the Turkish authorities.

The authorities in turn sent the bird to be X-rayed at Elzig's Firat University, which according to reports, medical staff at the university labelled 'Israeli Spy'. Once it had been established that the kestrel 'was carrying no other device', & that the item was a common research tag, the bird was released back into the wild - probably a bit wilder than when it had been captured, one would imagine.

The article concluded by reporting that this was not the first time that the Turkish authorities have been suspicious of suspected MSBs (Mossad Spy Birds), citing the case last year of a European bee-eater found dead & examined by the authorities as it was found to have one nostril noticeably larger than the other. Concerns were raised that a Mossad spying device could have been implanted in the bird's beak. The story ends here, so one can only assume that the late bee-eater's irregular nasal arrangement was merely a fluke of nature rather than a cunning Mossad plot, but the question needs to be asked here - what interest could Israel possibly have in Turkish bees?

As if that story was not sufficiently bizarre, just over a month later, on 01 Sept to be exact, a further avian arrest was reported, this time by the Mail online under the headline ' Bird that's ruffling government feathers: Stork suspected of being a SPY detained by police in Egypt'.

In this story a concerned man took a stork into a police station in the Qena governorate, some 280 miles southeast of Cairo, Egypt as the bird had an electronic device fitted to its back. The device, which appears to be a white plastic box around the size of a large printer ink cartridge, has a small solar panel fitted to the top of it. The concerned resident believed the stork may have been an undercover agent. I know - I'm just quoting from the article here.

The article was accompanied by a photograph of the Stork, looking very forlorn, behind the bars of a prison cell wearing his device & probably wishing he'd stayed at home that day.

Mohammed Kamal, the head of security in Qena, presumably after a thorough inspection, stated that the device was neither a spying nor an explosive device & was probably a wildlife tracker. Who would have thought it.

The article appears to justify the actions of the parties involved by stating that 'with turmoil gripping Egypt , authorities & citizens remain suspicious of anything foreign'.

Now I would love to report a happy ending to this story, in much the same way as you may imagine the released kestrel flying towards the sun to freedom, but unfortunately for the stork this wasn't to be.

On 08 Sept a follow up story appeared in the Mail online reporting that the unfortunate stork had been found dead on an island in the Nile, close to the city of Aswan. It had been reported to the authorities because of the device on its back.

Mahmoud Hassib, head of Egypt's southern protected area, confirmed the stork's death but denied reports from an Egyptian Wildlife organisation that the bird had been eaten by local residents. Although he could not determine the cause of death, he denied the bird had been consumed. Not, we think, that that would have been of any comfort to the deceased stork.

Now all these stories could be true, but I'm a cynical old goat, especially where the press are concerned & these reports also happen to fall in that journalistic period of famine known as the silly season - & not without reason either, as eager hacks struggle to fill empty pages, hoping that Sam Cam will buy a new dress or that they will be the first with the news of another celebrity couple breakup.

On reading the above stories I was reminded of the old yarn from the Napoleonic wars where a French warship was wrecked off the coast of Hartlepool, the only survivor washed ashore allegedly being a monkey dressed, presumably for the amusement of the crew, in a French military uniform. Now the locals had no idea what these foreign devils looked like & so assumed the monkey to be a French Sailor.

An impromptu trial was conducted on the beach, & the monkey, understandably unable to answer any of the questions put to him, was found guilty as a French spy & hanged from the nearest convenient ship's mast.

If this is not unfortunate enough, the Hartlepool town guide offers an alternative theory that the subject of the trial could actually a small French boy, the term 'powder monkey' being a commonly used expression for those lads who were employed to prime the ship's cannons.

Either way, the tradition still exists to this day where residents of Hartlepool, or 'poolies' are subjected to taunts of 'monkey hanger', particularly from residents of nearby Darlington, & always on those days when the two opposing football teams play against each other.

Seems some things never change, whether it be man's suspicions of anything strange & foreign, or his enduring penchant for the telling of a good tale...

PoSW's Items of Interest in the Media:-

Department of Not Enough to Worry About, part of the National Guesswork Authority, takes to TV. This imaginary (?) government organisation whose purpose is to scare the wits out of us might have been behind the offering of Channel Four TV on 9 – September. Entitled “*Blackout*”, and lasting for one hour and forty minutes, including commercial breaks, the description in the *Radio Times* listing magazine said, “This ‘what-if’ drama interweaves real footage recorded during actual emergencies with fictional scenes to paint a harrowing realistic portrait of Britain plunged into darkness. The story follows a cast of ordinary characters trying to fend for themselves in the first five days following a devastating cyber attack on Britain’s national electricity grid.....In an accomplished piece of scaremongering, *Blackout* weaves drama with actual reportage to paint a bleak picture of what might happen if Britain lost power for five days.

A catastrophic breakdown of the National Grid leaves the country in darkness and chaos. Soon the established order collapses in the face of overwhelming demands on emergency services. There’s rioting, looting and traffic chaos, and hospitals struggle to cope with a huge increase in patients.”

I have almost given up on TV because it is so awful these days, but I watched most of “*Blackout*”. They didn’t dwell too long on how the event got started in the first place but there was mention of a cyber – attack by unknown entities, perhaps linked to governments in “rogue states” such as North Korea or Iran. I find it difficult to believe that our electricity system is so dependent on computers that there is no manual control as an emergency alternative. I hope it hasn’t given the politicians ideas, not too difficult to imagine them organising something like this and then putting the blame on whichever nation is being lined up for “regime change” to whip up public support for military action and to install an administration willing to do the bidding of the Wall Street – City of London axis. However, it was a reminder of how thin a veneer civilisation is and how it is sensible to get, even if just a little bit, into what Americans call the “prepper” mind-set.

Since in this situation the supermarkets would soon run out of stocks – because they operate on a computer – based “just in time” delivery network - it is wise to keep a small supply of canned food and other supplies rotated regularly with regard to “use by” dates. Since the water supply depends on pumps powered by electricity it is a good idea to keep a few containers suitable for storing drinking water - you can get them from outdoor and camping equipment stores - and fill them at the first sign of an incident.

On the plus side, for short wave radio fans, there would be an opportunity to do some listening which would be completely free of the interference from switch mode power supplies, plasma TVs, and all the other gadgets which spew out RF crud over the short wave bands. Provided, of course, one had a radio receiver which was capable of running on batteries - and one had had the foresight to lay in a good stock of such items. Ideally it would be useful to have one’s own generator capable of delivering a couple of kV A at 230 volts 50 Hz, they can be purchased for a few hundred pounds, but in the real world generators draw attention to themselves by virtue of their engine noise however efficient the exhaust silencer may be - it is surprising how far noises travel on a still night - and encourage those who might wish to deprive you of it.

Return of an old TV favourite:- staying with the TV theme, despairing of the lack of anything worth while to watch in the evening I did a “reset and auto-search” routine on my “Free-view” TV and noted several channels had appeared on the list which were not there before. One such channel was something called “True Entertainment”, not sure who is behind this, but was pleasantly surprised to see they are currently showing the old “M*A*S*H” series from the 1970’s.

I recall it was on BBC2 TV all those years ago, one of the best TV shows to come out of the USA. Only a couple of complaints; it is on too early in the evening, two half-hour episodes from 7 PM to 8 PM, would be better if it were a couple of hours later. And we know from the 70’s that there were two separate sound tracks on the M*A*S*H videotapes, one with laughter and one without. When it was originally shown on the BBC they always used the sound track without laughter - except on one occasion when someone selected the other one by mistake and the BBC complaints hotline went into meltdown as angry viewers to voice their displeasure at the canned laughter being forced on them. True Entertainment seem to think it is a good idea always to use the soundtrack with the quite obviously artificial laughter; please cease and desist, T.E.!

Death of catcher of Soviet spies:- the obituary column of the *Daily Telegraph* of 21-September carried news of the death of Ferguson Smith, described as the “War Hero turned Cold War Spycatcher who locked up George Blake and the Portland traitors”. “Ferguson Smith, who has died aged 98, served with great distinction in the wartime RAF before becoming the Special Branch officer responsible for arresting some of Britain’s most notorious post war traitors.

Smith, a man with a rigorous attention to detail, quiet manner and dry sense of humour, arrested the Portland spy ring traitors in 1961; he also assisted in the arrest of George Blake, probably the most dangerous of all Russian spies, and the Admiralty spy John Vassall. The Portland spy ring, a bizarre group of unlikely suburban traitors, captured the public imagination and became the subject of feature films and documentaries. They passed on to Russia secrets stolen from the Admiralty Underwater Weapons Establishment at Portland in Dorset, where the Royal Navy tested equipment for undersea warfare.

When the CIA was tipped off about a possible leak from the Portland base by a Russian “mole”, the information was passed on to MI5, which involved the Metropolitan Police’s Special Branch in surveillance of the staff.

Suspicion fell first on Harry Houghton, a civil servant, who was a heavy drinker and seemed to spend more money than he could have earned. His mistress, Ethel Gee, was a filing clerk there who had access to secret documents.

They were followed on visits to London where they would meet a mysterious figure called Gordon Lonsdale, ostensibly a Canadian businessman dealing in jukeboxes and chewing gum machines, but who was eventually identified as Konon Trofimovich Molody.

He in turn was followed on regular visits to a bungalow in Ruislip, occupied by an antiquarian bookseller, Peter Kroger, and his wife Helen.

In January 1961 the ring was rounded up on the same day. Houghton, Gee and Lonsdale were caught meeting together in London and arrested by Superintendent George Smith (no relation). Gee’s shopping bag contained huge amounts of film and photographs of *Dreadnought*, Britain’s first nuclear submarine, and specifications of the secret Borg Warner torque converter.

At the same time Ferguson Smith and two colleagues went to Ruislip to see the Krogers and ask them to accompany them to Scotland Yard for questioning. Before leaving Mrs Kroger asked to be allowed to stoke the boiler. When Smith, a veteran spycatcher, checked her handbag, it was found to contain microdots, reproducing secret documents in miniature. These, it transpired, were hidden in antiquarian books provided to Lonsdale, who sent them with letters to his wife in the Soviet Union.

In the Kroger bungalow the police found large sums of cash and a mass of spying equipment, including fake passports, photographic material, code pads and a long – range transmitter linked to Moscow. It was the espionage coup of the decade and the crowning moment of Smith’s career in Special Branch, which he had joined in 1936 and went on to lead from 1966 to 1972.....Ferguson Smith, born October 5 1914, died September 15 2013”.

And the obituary in the *Telegraph* includes a photograph of a bespectacled, unhappy looking individual sitting in the back seat of a car between two grim looking policemen with the caption, “Peter Kroger being transferred from Wakefield Prison to Parkhurst in 1966”.

Its that man again:- I do not think there can be anyone in the world of British politics who is so reviled as Tony Blair. And it seems as if Albania is soon to be benefiting from the slippery so-and-so’s “expertise” according to a short news item in the *Metro* of 4-October. “Albania to get tips from Blair” is the headline, and says, ;- “Tony Blair is set to advise Albania as the nation seeks to join the European Union. The former Prime Minister will ‘personally’ help, according to Albania’s new premier Edi Rama. Speaking in the capital Tirana, Mr Blair said: ‘The big challenge with the government today is getting things done.’ Mr Rama has promised to create 300,000 jobs and cut poverty in one of Europe’s poorest countries”.

So..... Albania! Soon to be a member of the European Union apparently, the application to join was reported in the news just recently. In preparation for which it is known that Albanian gangsters have already set up shop in London where they control much of the vice trade, trafficking Eastern European women for prostitution, supplying Class A drugs, you name it - and are known for defending their interests with such fearful violence that the authorities are reluctant to go up against them. Rumour has it that they have corrupted every level of government in my country's capital city from local council up to Members of Parliament. My England, what have they done to you?

Thanks Peter, excellent stuff indeed.

Gizza Job!



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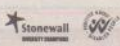
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Other News items

Spy games: ISI men caught cheating in Pakistan exam

Islamabad, September 12, 2013

<http://www.hindustantimes.com/world-news/Pakistan/Spy-games-ISI-men-caught-cheating-in-Pakistan-exam/Article1-1120969.aspx>

Spies resorting to underhand tactics is nothing new but sneaking in smartphones to cheat in an exam is pushing it a bit too far. Fifty Inter-Services Intelligence, better known as ISI, and intelligence bureau officials were among 500 candidates caught browsing internet on their phones to answer a recruitment exam for Pakistan's premier counter-terrorism agency, a report said on Wednesday.

The National Counter Terrorism Authority, which the Sharif government is counting on for a decisive war against terrorism, opened 130 vacant positions — 34 for officers — offering hefty packages and perks.

The last week's exam, the News International said, was "marred by so many blatant frauds that it has turned into a farce". Question papers were not only distributed one-and-a-half hours after the start time but were also not enough. Many examinees had to wait longer, for the photocopies of the question paper.

While most of the questions were multiple-choice, there were a few that required the aspirants to write a couple of paragraphs on ways to eradicate terrorism.

"As the exam started, there were around 10 invigilators for 5,000 candidates, hundreds of them busy cheating since they were allowed to bring mobile phones," the report said.

Intelligence agency officials turned out to be the trouble-makers as they started arguing with the invigilators when efforts were made to take away their phones.

Candidates found cheating had been disqualified, the exam coordinator said.

<http://www.hindustantimes.com/world-news/Pakistan/Spy-games-ISI-men-caught-cheating-in-Pakistan-exam/Article1-1120969.aspx>

Iranian arrested in Israel on suspicion of espionage

Man was seen photographing US embassy, says he was to be paid \$1 million to spy; Jerusalem says arrest proof Iran engaged in 'doublespeak'

By Gavriel Fiske September 29, 2013, 10:57 am 12

<http://www.timesofisrael.com/iranian-arrested-on-suspicion-of-spying-on-israel/>

Israeli security officials recently detained an Iranian with Belgian citizenship who officials believe is an agent of Iran's Revolutionary Guards and whose main mission was to spy on American interests inside Israel.

The agent, Ali Mansouri, was arrested at Ben-Gurion International Airport on September 11 by the Shin Bet security service while attempting to depart Israel for Belgium, the security agency said Sunday.

He was traveling under the alias Alex Mans and had been observed photographing the US Embassy in Tel Aviv and recording activity there. He was found with photographs of the US embassy and other sites.

A gag order on the arrest was lifted Sunday morning, as Israeli Prime Minister Benjamin Netanyahu was making his way to New York to deliver a speech at the UN widely expected to attempt to refocus world attention on Iran's nuclear program.

A member of the prime minister's delegation to New York said Sunday that the arrest was proof that Iranian attempts at detente with the West had not changed its actions on the ground.

"At a time when Iran is trying to get closer to the US, it sent an agent to try to gather intelligence in order to carry out a terror attack against the American Embassy in Israel," the official said. "This is just one further example of Iran's policy of doublespeak and further proof that Iran's words do not match its actions." Ali Mansouri, arrested by the Shin Bet on September 11. (photo credit: Courtesy Shin Bet)

Ali Mansouri, arrested by the Shin Bet on September 11. (photo credit: Courtesy Shin Bet)

Mansouri said during questioning that he was promised \$1 million in exchange for his activities inside Israel, and described how he was recruited by the special operations unit of the Revolutionary Guards.

Mansouri said he was deprived of sleep and bound to a chair during Shin Bet investigation, Channel 2 News reported Sunday night. He said he was not hit or hurt during questioning, the report added.

Mansouri's attorney was quoted by Channel 2 saying that his client's situation was more complex, but that "he has no agenda against Israel."

Mansouri has visited Israel several times and was under surveillance by Israeli intelligence. According to the Shin Bet, Mansouri, a businessman, was also looking to establish business interests in Israel that could serve as fronts for Iranian intelligence activities in the Jewish state.

The aim was to establish a front behind which the Revolutionary Guards could operate in Israel, against Israel, Channel 10 news reported Sunday night. A subsequent stage would have been to send terrorists to Israel to carry out attacks, it added.

Mansouri left Iran in 1980, lived in Turkey until 1997 and then moved to Belgium on a business visa, where in 2006 he obtained citizenship and changed his name to Alex Mans, the Shin Bet revealed. In 2007, Mansouri returned to Iran and established an international business with interests in Iran, Belgium and Turkey.

One of the companies Mansouri established was called European Folded Glass System, Channel 2 reported. The company's amateurish website, which states proudly that EFGS is "Big Company in Europe," is rife with spelling and grammatical errors. Alex Mans is listed as the manager, and a Belgian address and phone number are given on the site.

<http://www.timesofisrael.com/iranian-arrested-on-suspicion-of-spying-on-israel/>

Listening devices found at future defence HQ

By DAVID PUGLIESE, OTTAWA CITIZEN September 29, 2013

<http://www.ottawacitizen.com/business/Listening+devices+found+future+defence/8974808/story.html>

OTTAWA — Workers preparing the former Nortel complex as the new home for the Department of National Defence have discovered electronic eavesdropping devices, prompting new fears about the security of the facility.

It's not clear whether the devices were recently planted or left over from an industrial espionage operation when Nortel occupied the complex.

Asked for details about the listening devices and whether they were still functioning, the DND responded with a statement to the Citizen that it takes security at its installations seriously.

"The Department of National Defence and Canadian Armed Forces cannot provide any information regarding specific measures and tests undertaken to secure a location or facility for reasons of national security," noted an email from DND spokeswoman Carole Brown. "The DND/CAF must maintain a safe and secure environment at all of its facilities, in order to maintain Canada's security posture at home and abroad."

Recently released DND documents, however, indicate that concerns about the security surrounding the former Nortel campus at 3500 Carling Ave. were raised last year.

A briefing document for then Defence Minister Peter MacKay warned that the public announcement the DND was moving into the complex before it could be properly secured created a major problem. "This not only raises the level of difficulty of verifying appropriate security safeguards in the future, it will probably dramatically increase security costs and cause delays to reach full operational capability," MacKay was told in April 2012 by Canadian Forces security officers.

The briefing note was released under the Access to Information law.

Last year it was also revealed that Nortel had been the target of industrial espionage for almost a decade, with the main culprits thought to be hackers based in China. An internal security study by Nortel suggested that the hackers had been able to download research and development studies and business plans starting in 2000.

The hackers also placed spyware so deep into some employee computers it escaped detection, the Wall Street Journal reported last year.

The Conservative government has earmarked almost \$1 billion for its plan to move military personnel and Department of National Defence staff to the former Nortel campus. That includes \$208 million to buy the property, with an additional \$790 million to be spent to renovate the buildings for DND's needs, according to a presentation made to the Senate by Treasury Board officials. The cost to prepare the site involves everything from creating new offices to installing secure computer networks.

Recently, however, the federal government has noted it could be open to revisiting its plans to have the DND occupy the facility. Public Works has been considering whether other government departments might make their home there instead.

"Public Works and Government Services Canada is currently reviewing its plans for the renovation and future occupancy of the Carling Campus in light of the current environment of fiscal restraint to ensure that the use of the campus provides best value for taxpayers," Brown added in her email.

The DND originally estimated the cost of preparing the Nortel site for its needs would be \$633 million, according to department documents obtained by the Citizen through the Access to Information law.

Although DND is planning for the move, cabinet has not yet made the final decision authorizing the department to occupy the Nortel site.

Some have questioned the move at a time of cost-cutting, particularly since the DND will still continue to occupy key buildings such as its main headquarters, the Major-General George R. Pearkes Building on Colonel By Drive, as well as its facility on Star Top Road. The DND's presence in the Louis St. Laurent Building, the National Printing Bureau building and the Hotel de Ville building in Gatineau will also continue.

The department has estimated it would save \$50 million a year by moving many of its employees in the Ottawa area into the Nortel campus but it has not provided a breakdown on how it came up with that figure.

In justifying the move, the department noted it would save money through reduced cab fares, less need for commissionaires to guard offices and an atmosphere that allows people to work better together.

<http://www.ottawacitizen.com/business/Listening+devices+found+future+defence/8974808/story.html>

Spy novelist Tom Clancy dies aged 66

Obituary: Tom Clancy

<http://www.bbc.co.uk/news/entertainment-arts-24372224>

Best-selling US author Tom Clancy has died at the age of 66, his publisher Penguin has confirmed.

Clancy wrote a string of best-selling spy and military thrillers. His 17th novel, Command Authority, is due out in December.

Several of his books featuring CIA analyst Jack Ryan have been adapted into successful Hollywood films.

The former insurance broker died in a Baltimore hospital near his Maryland home, according to reports.

Clancy, who died on Tuesday, was remembered as "a master of his craft" by Tom Weldon, chief executive of Penguin Random House UK.

"Tom Clancy changed readers' expectations of what a thriller could do," he said. "He will be greatly missed by millions of fans in the UK and around the world."

'Real gentleman'

Written in his spare time, The Hunt for Red October (1984) was Clancy's first published novel and sold more than five million copies.

President Ronald Reagan helped to fuel the success of the book when he called it a "perfect yarn".

Archive: Tom Clancy talks about his prophetic '9/11' plot

The novel was made into a film in 1990, starring Alec Baldwin as Ryan and Sir Sean Connery as Soviet submarine captain Marko Ramius.

Baldwin paid tribute to "the great writer Tom Clancy" on Twitter, remembering him as "a real gentleman of the old school".

Harrison Ford went on to play Ryan in film versions of Patriot Games and Clear and Present Danger, while Ben Affleck played him in 2002 release The Sum of All Fears.

Jack Ryan: Shadow One, a new film to feature the character directed by Sir Kenneth Branagh, is set for release this December.

Clancy usually wrote a book a year, making him one of the wealthiest authors in the world.

In 2002 he was ranked at 10 in Forbes magazine's Celebrity 100 list with estimated earnings of \$47.8m (£33m).

As well as a successful writer, Clancy also became closely associated with the world of video gaming.

TOM CLANCY IN BRIEF

The Hunt for Red October was Clancy's first published book, launching his career as a successful writer in 1984

Red October spawned a Hollywood film as well as a naval war game

In all he wrote and co-wrote 20 books, including 17 New York Times number one best-sellers

In 1993 he joined a group of investors to buy the Baltimore Orioles baseball team

Clancy wrote about commercial airliners being used as missiles several years before the attacks in the US on 11 September 2001

The French video game manufacturer Ubisoft purchased the use of Clancy's name for an undisclosed sum in 2008

Clancy's final novel, Command Authority, is due to be published in December 2013

In the 1990s he founded Red Storm Entertainment, later bought by Ubisoft, which developed games based on Clancy's ideas.

Blockbuster video game titles bearing his name included Splinter Cell, Ghost Recon and Rainbow Six.

"Tom Clancy was an extraordinary author with a gift for creating detailed, engrossing fictional stories that captivated audiences around the world," said Ubisoft on its Facebook page.

"We are humbled by the opportunity to carry on part of his legacy through our properties that bear his name."

British author Barbara Taylor-Bradford also paid tribute to Clancy on her website.

"I'm stunned to learn of the sudden passing of [a] legendary novelist," she wrote. "A remarkable talent whose books and movie adaptations held me captive for many enjoyable hours."

Clancy was known for his technically detailed espionage and military science storylines. One, written in 1994, told of a crazed Japan Airlines pilot who flies into the Capitol building in Washington.

In a 2003 interview, CNN presenter Wolf Blitzer suggested his precise accounts of the US military techniques were giving away secrets to terrorists.

"I never got any fan mail from Osama bin Laden, and I don't really know how many books I sold in Afghanistan," the author replied.

"You have to talk to the marketing people about that. But I'm not really concerned about it."

"He was ahead of the news curve and sometimes frighteningly prescient," said Ivan Held, president of Penguin imprint G P Putnam's Sons.

"To publish a Tom Clancy book was a thrill every time."

<http://www.bbc.co.uk/news/entertainment-arts-24372224>

NSA Center for Spy Data Suffers Electrical Failures

By Chris Strohm - Oct 8, 2013 5:00 AM GMT

<http://www.bloomberg.com/news/2013-10-08/nsa-center-for-spy-data-suffers-electrical-failures.html>

A \$1.2 billion data center being built in Utah for the National Security Agency to house U.S. intelligence secrets has been plagued by electrical failures, according to an agency official.

The electrical failures at the facility located in the suburbs of Salt Lake City have been mitigated and the center is completing acceptance testing, the official, who asked not to be identified, said in an e-mail. The problems were reported earlier by the Wall Street Journal.

The center -- one of the Defense Department's biggest construction projects in the U.S. -- is intended to be "a state-of-the-art facility designed to support the intelligence community's efforts to further strengthen and protect the nation's cyber security," according to a January 2011 NSA statement.

"During the testing and commissioning of the Utah Data Center, problems were discovered with certain parts of the electrical system," according to a statement by the Army Corps of Engineers passed on by the NSA last night. "Issues such as these can arise in any project, and are the reason the Corps tests and reviews every aspect of any project prior to releasing it to the customer."

The NSA's spying programs include storing the phone records of millions of Americans as well as the e-mail and Internet activity of suspected foreign terrorists who may communicate with U.S. citizens, according to documents exposed in June by former government contractor Edward Snowden.

10 Meltdowns

The causes of the center's problems, which include 10 electrical meltdowns in the past 13 months, have destroyed hundreds of thousands of dollars worth of machinery and delayed the its opening by a year, according to the Wall Street Journal.

The Utah facility sits on about 247 acres and includes 1.2-million-square-feet of enclosed space and will host the power, space, cooling and communications needed for specialized computing, said the NSA official, who requested anonymity because of not being authorized to publicly discuss the project's problems.

"In an era when our nation and its allies are increasingly dependent on the integrity of information and systems supported, transmitted, or stored in cyberspace, it is essential that that space is as resilient and secure as possible," John Inglis, NSA deputy director, said in the January 2011 statement on the need for the facility.

<http://www.bloomberg.com/news/2013-10-08/nsa-center-for-spy-data-suffers-electrical-failures.html>

Spies spy – get over it

Why do we whinge about surveillance, then moan about intelligence failure after a terror attack?

Douglas_Murray

<http://www.spectator.co.uk/features/9050251/spies-spy-get-over-it/>

In the whole panoply of human idiocy is there anything so ridiculous as the outrage that occurs whenever people are reminded that spies spy? There was just such an outburst recently when Edward Snowden left his job as a contractor to the CIA and NSA, repelled, he said, by the discovery that surveillance programmes carry out surveillance. Snowden discovered that American and British intelligence agencies were involved in data trawling and was so horrified that he found it necessary to flee — first to the freedom-loving People's Republic of China and then, to seek asylum, to Moscow. On the left of the political spectrum he is the new Julian Assange — though without the sex-crime charges.

Happily the new head of MI5, Andrew Parker, used his first public speech this week to inject some sanity back into the debate, and it was high time too.

As Parker reminded us, the intelligence services search for information not because they long to snoop on ordinary people, or feel a compelling need to read every email we send — but because they seek to thwart people who intend to harm us. We have enemies; there really are thousands of people hell-bent on blowing us up, and spooks exist to stop them.

The intelligence services don't read emails at random, they focus their attention only on those who are of interest to them. Sometimes it seems as if we actually want to believe we're all being spied on, to make us feel more important. But the truth is that unless you spend your vacations fighting jihad abroad, no one's watching you.

And even if you are a frequent flyer to Kabul, it still doesn't mean that every area of your life is being snooped on. As Parker said, 'Being on our radar does not necessarily mean being under our microscope. The reality of intelligence work in practice is that we only focus the most intense intrusive attention on a small number of cases at any one time.'

And we should be exceedingly grateful that they do; but instead, we choose to bleat. Certain newspapers not only allow, but encourage, a culture of leaks which damage national security — and for absolutely no visible gain. Just as the Pulitzer Prize in America is most easily won by printing information that puts American lives at risk, so a branch of journalism has grown up here in Britain which regards the highest prize as facilitating a national security leak. One of the oddities is that this should be true now, at a time when a detailed intelligence-gathering capability has never been more necessary.

Intelligence agencies around the globe are currently battling with a problem which is unique to the modern world — the extent to which problems in one country spill over into others. A British convert to Islam may head to Kenya to take part in a terror attack. Or a terrorist trained in Somalia can head to Denmark. Both have happened recently. Distance is no longer an obstacle, and the number of theatres in which people can train and gather experience of fighting has grown exponentially. The problem has become, in Parker's understated words, 'more diffuse, more complicated, more unpredictable'.

At a discussion in Parliament last week organised by the Henry Jackson Society, General Michael Hayden, the former head of the CIA, said that the number of foreign fighters currently flooding into Syria is 'twice that of the historic high in Iraq'. This includes a significant amount of young British Muslim men and women. Some will die in the process. Others will return and bring not only their experience but their ambitions back here to infect others.

So the intelligence agencies just have to be allowed to do their work. Rest assured, contrary to popular myth, they cannot act outside the law; they are not allowed to bump people off James Bond-style, nor detain people at random. In fact they work in an environment as strangely obsessed with health and safety and workplace oversight as any other. But they have a job to do which is rendered impossible if it is subjected to the current fashion for full transparency and disclosure.

Incidentally, when I asked if there was anything more ridiculous than outrage over spies spying, the answer is 'yes'. It is those people who complain after any 'successful' terrorist attack: 'Why did our intelligence services not know?' The striking thing is that it's often the same people who complain in both cases.

<http://www.spectator.co.uk/features/9050251/spies-spy-get-over-it/>

For those who remember the late Idi Amin and his white rat, Bob Astles this will be of interest. His cause of death, not stated here, was cancer of the rectum.

Bob Astles

Bob Astles, who has died aged 88, was, as the British-born adviser and factotum to the bloodthirsty Ugandan dictator Idi Amin, the most hated white man in postcolonial Africa.

6:35PM GMT 15 Feb 2013

<http://www.telegraph.co.uk/news/obituaries/9873981/Bob-Astles.html>

Superficially, the moustachioed Astles was the archetypal colonial adventurer: a war veteran, aviation pioneer and pineapple farmer who was running Uganda Television when Amin seized power.

Yet he also invented a past as a Battle of Britain pilot and humiliated his fellow expats — who branded him "the white rat" — by forcing them to kneel before Amin. And he was demonised for his closeness to the dictator who slaughtered 300,000 of his countrymen, and for his own reputed involvement in some of Amin's murkiest deeds.

After Amin's overthrow in 1979, Astles spent two years facing a death sentence for murder, then four more in jail after his acquittal before being deported, having renounced his Ugandan citizenship.

Astles's relationship with the capricious Amin was complex; at times he was the trusted adviser, at others he was in fear of his life. He was one of the models for Dr Nicholas Garrigan (played by James McAvoy), the naive foil to Amin in the 2006 movie *The Last King of Scotland*, from the novel by Giles Foden.

After Amin overthrew Milton Obote in 1971, he jailed and tortured the Briton he later dubbed "the Major". He then made him his adviser on British affairs, had him detained for "confusing government ministers", and put him in charge of an anti-corruption squad.

At the time of an attempt on Amin's life in 1976, Uganda Radio reported Astles's death in a yachting accident — such announcements (sometimes broadcast before the event) usually denoted a murder by Amin's thugs. In fact, Astles had paddled his boat to Kenya and flown home to Ashford, Kent, in the clothes he stood up in. He told Amin in a telephone call that he had gone home for eye treatment, whereupon Amin offered to send a Ugandan doctor.

In the last days of Amin's rule, as Tanzanian troops closed on Kampala, Astles was again declared dead after a body was found on a golf course. Amin had apparently plotted his murder by bombing an aircraft also carrying the Kenyan minister of agriculture; but Astles refused the president's entreaties to get on board then fled to Kenya — where he was held on suspicion of having sabotaged the plane himself.

Astles was loathed by the few whites remaining in Uganda and was feared by the locals. Conceding later that he had “kept my eyes shut” about Amin’s atrocities, he confessed: “Scared of him? My hair would go on end but I was a fighter. The last time he arranged for me to be killed, he sent for my wife and said: ‘Go and look at him for the last time.’”

Having a Baganda aristocrat as his second wife tied Astles closer to Amin. Mary Ssen-Katukka, with whom he adopted two Asian children, was appointed minister of culture and community development in 1977 on the sacking of the respected Maj-Gen Francis Nyagweso – who was never seen again.

Robert Astles was born on March 23 1924 into a working-class family at Netley, Hampshire, and later lived in Ashford. He joined the Indian Army as a teenager and then the Royal Engineers, reaching the rank of lieutenant. Of his war service, he recalled: “I enjoyed being with other nationalities and their fights for world recognition.”

In 1949 Astles’s unit was sent to Uganda to help quell an uprising. His first civilian job there was as a foreman overseeing road building gangs; in the Queen’s first Birthday Honours he was awarded a BEM. He learned to fly, and with £100 set up Uganda Aviation Services, the first airline in Uganda to employ Africans.

Astles made his mark as a social climber, preferring the company of Africans. His first wife, who came out from Kent then divorced him in 1958 because he kept a python behind the fridge, recalled: “He was only a foreman, yet he got the King of Toro to come to dinner.”

Astles hedged his political bets, cultivating both the Kabaka of Buganda, who put him in charge of Uganda TV (he operated the camera), and Milton Obote, who became Uganda’s first president. On the eve of independence in 1962 he alienated local whites by testifying against settlers who staged a riotous party aping the worst of British imperialism, described by the Commonwealth Secretary, Duncan Sandys, as an “unfortunate episode”.

Astles served Obote as a civil servant, pilot and cameraman until the 1971 coup, then transferred his allegiance to Amin. Within months Obote’s supporters staged an abortive invasion, and Amin detained 60 whites whose loyalties he suspected.

Astles spent six weeks in Makindye Prison, where he was shackled and brutally interrogated. Questioned on television, Astles denounced Obote as “almost a madman”, and a week later he was freed. Astles later said: “Amin called me a ‘rotten apple’ on the radio, and nationalised my airline. It was ordinary Africans who helped me survive. One guard was kicked to death for helping me.”

Amin now recruited Astles as his adviser on British affairs. Relations had been frosty since his expulsion of Uganda’s Asians, and in 1975 touched bottom when Dennis Hills, a British lecturer, was charged with treason for calling Amin a “village tyrant” in an unpublished book.

Amin threatened to have Hills shot unless the Foreign Secretary, James Callaghan, flew to Kampala. Amin, wearing a Seaforth Highlanders’ glengarry and with five rows of medals on his Air Force uniform, kept Callaghan waiting half an hour, then sat down with him under a portrait of Colonel Gaddafi.

Callaghan flew Hills out, believing he had safeguarded the lives of 700 Britons still in Uganda. A week later, Amin was borne into an Organisation of African Unity conference in Kampala on a chair by four expatriates — a humiliating stunt organised by Astles.

In April 1976 Astles was arrested again. This time Amin released him after a week, appointing him to head the anti-corruption squad. Working out of the Uganda Development Corporation, almost his first action was to shop its chairman, Semei Nyanzi. Nyanzi spent 18 months behind bars, then vanished.

Astles increasingly acted as Amin’s spin doctor. When the dictator’s henchmen murdered the Most Rev Janani Luwum, Anglican Archbishop of Uganda, it was Astles’s version of events — he cited a car crash — that Radio Uganda broadcast.

When Tanzania first tried to invade, Astles told reporters: “The only Tanzanians left in Uganda are dead ones.” As a second invasion was succeeding, Amin ordered the airliner bombing which killed the Kenyan minister Bruce Mackenzie, and was also intended for Astles.

Having arrived safely in Kenya, however, Astles was extradited to Uganda in June 1979 and charged with the capital murder of a Lake Victoria fisherman during a drive against coffee smuggling for which Amin awarded him the Republic Medal. Jeered in the courtroom, he was held with other Amin cronies in Luzira prison, where guards had crushed men’s heads with mallets for the amusement of the dictator.

Further charges of murder, armed robbery and theft were brought, and Astles fought off a move to have him tried by court martial where execution would have been a near certainty.

In 1981 he was tried on the principal murder charge. Witnesses swore they had seen Astles shoot the “smuggler” in the head, but he claimed he had been away at a hotel he was running for Amin. After a five-month trial the judge dismissed the charge.

When, in 1985, Obote was ousted by Gen Tito Okello, Astles at first refused to leave prison, but eventually he was deported. Arriving home stateless and penniless, and insisting he had “no blood on my hands”, he settled in Wimbledon, the historian Betty Julius taking him in. His second wife, who had paid for his defence, stayed in Uganda.

Astles kept in touch with the exiled Amin until his death in Saudi Arabia in 2003. Meeting him while researching his novel, Foden observed that Astles “seems to live in the same fantasy world as Amin”. Until the end he socialised with Ugandans in Britain, campaigned against superpower involvement in Africa and wrote for the African-orientated London Evening Post. The paper obituarised him as “Bob Astles, the loner”.

Bob Astles, born March 23 1924, died December 29 2012

<http://www.telegraph.co.uk/news/obituaries/9873981/Bob-Astles.html>

Chart Section Index

1. Logging Abbreviations Explained
2. European Number Systems
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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 7th 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] HM [Hybrid Mode: Voice/Data] 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 unk 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.

NUMBER SYSTEMS

European Numbers sytems:

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

[^] Some German numerals have a radio accent and totally in keeping with German armed forces The numbers in question are:

2 ZWEI pronounced as TSWO

5 FUNF pronounced as FUNUF, poss hrd as a fast TUNIS

9 NEUN pronounced by some as NEUGEN

A peculiar pronunciation of three DREI, has crept into G11 transmissions, heard as 'ZYNCE' the 'Y' as in eye.

Numeral Systems used on selected Slavic Stations [*those discontinued in italics*]

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

Notes on Numeral Systems used on selected Slavic Stations:

* Nula heard as 'nul'

^ Jeden heard as 'Yedinar'

‘Tri heard as ‘she’

~ Osoom often heard as 'bossoom' or 'Vossoom.'

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

Chinese Number System:

[Particular attn to Yi/Yao pse].

0	Ling	Zero
1	Yi/Yao	One (It appears there is a radio version of Yao. On the telephone it is pronounced Yi; also heard in V16)
2	Er	Two
3	San	Three
4	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).
5	Wu	Five
6	Liu	Six
7	Qi	Seven
8	Ba	Eight
9	Jiu	Nine

Shi	Ten	Ba	One Hundred	Wan	One Thousand
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Chinese numeral construction:

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.

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Nov kHz, ID, ...	Dec kHz, ID, ...
						x	0100/0120/0140		V07	01B	18074/15874/14374 883	16037/14637/12137 661
x							0450		E11	03	5082 416/00	5082 416/00
x							0530/0550/0610		M12	01B	4617/ 5317/ 5817 638	4457/ 5157/ 417, search
			x				0530/0550/0610		E07A	01B	5146/ 5846/ 6846 188	5146/ 5846/ 6846 188
				x			0600/0610		S06S	01A	6085/ 8813 934, search	6085/ 8813 934, search
		x			x		0600/0620/0640		XPA	01B	11409/13509/14609	
			x	x			0600/0700		E06	01B	16200/18200 507	13910/15940 923
	x		x				0645		E11	03	7840 517/00	7840 517/00
						x	0700		M01	01B	5465 197	5465 197
	x						0700/0800	2	M14	01B	5785/ 5895 178	5785/ 5895 178
				x			0700/0710		S06S	01B	7150/ 8215 916	7150/ 8215 916
	x						0700/0710 (15)		S06S	01B	5250/ 6320 374	5250/ 6320 374
				x			0700/0720/0740		M12	01B	9338/10638/12138 238	8060/ 9060/10160 238
		x			x		0700/0720/0740		XPA	01B		7756/ 9056/10656
	x			x			0710		E11	03	10800 633/00	10800 633/00
		x					0730/0740		S06S	01A	7030/ 6305 481	7030/ 6305 481
			x				0730/0750/0810		M12	01B	5884/ 6884/ 888, search	5284/ 5784/ 277, search
	x		x				0745		E11	03	16112 335/00	16112 335/00
			x				0800/0810		E17Z	01A	11170, 9820 674	11170, 9820 674
x							0800		G06	01A	5363 215	5363 215
	x				x		0800/0900		M14	01A	5430/ 5561 171	5430/ 5561 171
	x						0800/0810		S06S	01A	10265/ 9135 352	10265/ 9135 352
				x			0800/0810		S06S	01A	5810/ 6770 278	5810/ 6770 278
	x			x			0800/0820/0840		XPA2	01B	20841/18741/17441	20258/17558/15838
x		x					0800/0820/0840		M12	01B	17427/15827/14527 485	14819/13919/12219 892
x			x				0820		E11	03	7317 438/00	7317 438/00
		x					0820/0830		S06S	01A	6880/ 7840 471	6880/ 7840 471
x				x			0830		E11	03	9446 649/00	9446 649/00

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Nov kHz, ID, ...	Dec kHz, ID, ...
x							0830/0840		S06S	01A	8234/ 9270 371	8234/ 9270 371
		x					0830/0840		S06S	01A	7335/11830 745	7335/11830 745
		x					0840/0850		S06S	01A	9260/11415 328, search	9260/11415 328, search
x		x					0900		E11	03	9446 534/00	9446 534/00
			x		x		0900		E11	03	4441 248/00	4441 248/00
x							0900/0910		S06S	01A	14675/12830 872	14675/12830 872
			x				0900/0910		S06S	01A	12952/13565 167	12952/13565 167
			x				0900/0910		S06S	01A	5410/ 6770 624	5410/ 6770 624
					x		0900/0920/0940		E07A	01B	11553/12153/13553 515	11121/12221/13421 124
	x			x			0915		S11A	03	7504 484/00	7504 484/00
			x				0930/0940		S06S	01A	8812/ 9540 314	8812/ 9540 314
				x			0930/0940		S06S	01A	11780/12570 516 9445/10195 search	11780/12570 516 9445/10195 search
	x						1000/1010		S06S	01A	6440/ 5660 893	6440/ 5660 893
		x					1000/1010		S06S	01A	12365/14280 729	12365/14280 729
			x			x	1010/1030/1050		M12	01B	/17479/ 941	13569/14869/16269 582
x			x				1015		S11A	03	12530 475/00	12530 475/00
	x			x			1020		S11A	03	9610 426/00	9610 426/00
		x			x		1020		S11A	03	6433 221/00	6433 221/00
	x						1045		E11	03	x10800 576/00, search	x10800 576/00, search
	x	x					1045		E11	03	8091 469/00	8091 469/00
x				x			1110		E11A	03	14410 95#/#	14410 95#/#
	x	x	x				1115		M03	03	4828 272/00 (Tue) & 650/00 (Wed/Thu)	4828 272/00 (Tue) & 650/00 (Wed/Thu)
						x	1120/1220	2	E06	01A	7316/ 6814 218	7316/ 6814 218
		x	x			x	1155		E11	03	15632 718/00	15632 718/00
			x				1200	?	G06	01A	search 215	search 215

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Nov kHz, ID, ...	Dec kHz, ID, ...
			x				1200/1210		S06S	01A	12155/10920 425	12155/10920 425
					x		1200/1210	1	S06S	01A	8680/ 8260 254	8680/ 8260 254
		x					1230/1240		S06S	01A	4580/ 6420 967	4580/ 6420 967
			x				1300	?	G06	01A	search 215	search 215
x							1300/1310		S06S	01A	8420/10635 831	8420/10635 831
x	?						1300/1320/1340		M12	01B	9187/ 8057/ 7697 106	9223/ 8193/ 7463 214
			x		x		1310/1330/1350		M12	01B	9162/ 8062/ 104, search	
			x			x	1320		M03	03	4828 437/00	4828 437/00
				x	x		1325		G11	03	6433 299/00	6433 299/00
	x				x		1400		E11A	03	10690 98#/#	10690 98#/#
		x			x		1445		E11	03	4441 287/00	4441 287/00
					x		1500		M01	14	5810 197	5810 197
		x					1500/1520/1540		M12	01B	8112/ 7552/ 6792 106	7509/ 6909/ 5709 214
	x						1500/1510		S06S	01A	6845/ 9170 537	6845/ 9170 537
	x				x		1535		M03	03	5358 798/00	5358 798/00
x						x	1540		E11	03	15632 228/00	15632 228/00
					x		1600 (1605)		S06	01A	7387/ 5943 764	7387/ 5943 764
		x					1600/1620/1640		M12	01B	11435/10598/ 9327 938	11435/10598/ 9327 938
			x				1605		M01B	14	5938 159	5938 159
				x			1615		M01B	14	5810 158	5810 158
x							1700	1/2	G06	01A	3673 564	3673 564
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				1700/1720/1740		M12	01B	10343/ 9264/ 8116 124	10343/ 9264/ 8116 124
x				x			1710		E11A	03	6924 95#/#	6924 95#/#
			x				1730		E11	03	5082 416/00	5082 416/00

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Nov kHz, ID, ...	Dec kHz, ID, ...
	x					x	1755		G11	03	6433 270/00	6433 270/00
x							1800	1/2	G06	01A	4515 564	4515 564
	x		x				1800		M01	14	5320 197	5320 197
	x						1800		S06	01A	3645 617	3645 617
x							1800/1820/1840		M12	01B	9176/ 7931/ 6904 257	9176/ 7931/ 6904 257
		x				x	1800/1820/1840		E07	01B	x8183/ 6982/ 5938 199, search	x6982/ 5836/ 4938 989, search
			x				1800/1820/1840		M12	01B	10343/ 9264/ 8116 124	10343/ 9264/ 8116 124
	x		x				1802		M45	14	3525, 4025 525	3525, 4025 525
	x				x		1810		E11A	03	10213 98#/#	10213 98#/#
	x						1820		M14	01A	4636 186	4636 186
			x				1830	2/4	G06	01A	4519 271	4519 271
	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		x				1842		S21	14	3323, 3823 323	3323, 3823 323
				x	x		1900	1/3	G06	01A	239, search	239, search
x			x				1900 (1905)		S06	01A	3192 (3838) 349	3192 (3838) 349
x			x				1900/1920/1940		M12	01B	9176/ 7931/ 6904 257	9176/ 7931/ 6904 257
	x		x				1900/1920/1940		XPA	01B	8123/ 7523/ 6823	8164/ 7364/ 5864
x							1910		M01B	14	2435, 3519 853	2435, 3519 853
x							1915/2015	2/4	S06	01A	8180/ 6830 805	/ 5140 418, search
		x					1920/2020	2	E06	01A	3526/ 3729 218	3526/ 3729 218
		x					1920	2/4	M14	01A	4761 748	4761 748
				x			1930	2/4	G06	01A	4792 218	4792 218
					x		1930 (1935)		S06	01A	3172/ 3834 426	3172/ 3834 426
				x			2000		E11	03	x4536 576/00, search	x4536 576/00, search
				x	x		2000	1/3	G06	01A	239, search	239, search
				x		x	2000		G11	03	4441 262/00	4441 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

M01b Thursday

M01b Friday

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

M01 Saturday

	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
1500	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
ID	525	525	555	555	074	074	074	074	555	555	525	525
1702					5074	5074	5074	5074				
//					5474	5474	5474	5474				
1802	3525	3525	4555	4555					4555	4555	3525	3525
//	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)	ID	Decode Key	Grp No.
Sun 1	None	Found					
Mon 2	0430	5792	0450	6992	796	0 0 0	
	1300	14372	1320	13472	344	8622	173
	1600	11435	1620	10598	938	5216	117
	1700	9176	1720	7931	257	1827	79
	1800	9176	1820	7931	257	4518	61
	1900	9176	1920	7931	257	5178	118
Tue 3	1830	10343	1850	9264	124	1443	68
Wed 4	1500	13524	1520	11524	344	8622	173
	1700	8047	1720	6802	463	3467	99
	1830	11435	1850	10598	938	7259	64
	2100	6793	2120	5893	785	0 0 0	
	2110	11469	2130	10469	441	0 0 0	
Thu 5	0630	6784	0650	7684	761	0 0 0	
	1310	13873	1330	13373	834	0 0 0	
	1600	13386	1620	12189	725	6198	116
	1700	9176	1720	7931	257	7261	98
	1700	10343	1720	9264	124	5879	78
	1900	9176	1940	7931	257	1474	62
Fri 6	None	Found					
Sat 7	1310	13873	1330	13373	834	0 0 0	
	2110	11469	2130	10469	441	0 0 0	

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Sun 8	None	Found					
Mon 9	1300	14372	1320	13472	344	0 0 0	
	1600	11435	1620	10598	938	1554	100
	1700	9176	1720	7931	257	8009	80
	1800	9176	1820	7931	257	7316	61
	1900	9176	1920	7931	257	2468	120
Tue 10	1830	10343	1850	9264	124	1200	51
Wed 11	1500	13524	1520	11524	344	0 0 0	
	1700	8047	1720	6802	463	1092	90
	1830	11435	1850	10598	938	3295	64
	2100	6793	2120	5893	785	7940	97
	2110	11469	2130	10469	441	233	51
Thu 12	0630	6784	0650	7684	761	0 0 0	
	1310	13873	1330	13373	834	0 0 0	
	1600	13386	1620	12189	725	7265	108
	1700	9176	1720	7931	257	4921	97
	1700	10343	1720	9264	124	5130	76
	1800	10343	1820	9264	124	4164	119
	1900	9176	1940	7931	257	4913	65
Fri 13	None	Found					
Sat 14	1310	13873	1330	13373	834	0 0 0	
	2110	11469	2130	10469	441	233	51

Highlighted cell indicates new or changed loggings
- - - Indicates no 3rd 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)	ID	Decode Key	Grp No.
Sun 15	None	Found					
Mon 16	0430	5792	0450	6992	796	0 0 0	
	1300	14372	1320	13472	344	9417	217
	1600	11435	1620	10598	938	3022	118
	1700	9176	1720	7931	257	5344	79
	1800	9176	1820	7931	257	7420	68
	1900	9176	1920	7931	257	3334	120
Tue 17	1830	10343	1850	9264	124	1295	67
Wed 18	1500	13524	1520	11524	344	9417	217
	1700	8047	1720	6802	463	3926	94
	1830	11435	1850	10598	938	6245	65
	2100	6793	2120	5893	785	0 0 0	
	2110	11469	2130	10469	441	5648	127
Thu 19	0630	6784	0650	7684	761	0 0 0	
	1310	13873	1330	13373	834	5084	133
	1600	13386	1620	12189	725	4193	111
	1700	9176	1720	7931	257	3453	96
	1700	10343	1720	9264	124	3211	74
	1800	10343	1820	9264	124	1121	114
	1900	9176	1940	7931	257	6975	65
Fri 20	None	Found					
Sat 21	1310	13873	1330	13373	834	5084	133
	2110	11469	2130	10469	441	5648	127

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Sun 22	None	Found					
Mon 23	0430	5792	0450	6992	796	0 0 0	
	1300	14372	1320	13472	344	834	157
	1600	11435	1620	10598	938	4234	110
	1700	9176	1720	7931	257	1267	73
	1800	9176	1820	7931	257	5568	63
	1900	9176	1920	7931	257	4467	113
Tue 24	1830	10343	1850	9264	124	8262	68
Wed 25	1500	13524	1520	11524	344	834	157
	1700	8047	1720	6802	463	7475	94
	1830	11435	1850	10598	938	7511	69
	2100	6793	2120	5893	785	0 0 0	
	2110	11469	2130	10469	441	8136	119
Thu 26	0630	6784	0650	7684	761	0 0 0	
	1600	13386	1620	12189	725	7245	115
	1700	9176	1720	7931	257	7819	100
	1700	10343	1720	9264	124	7521	72
	1800	10343	1820	9264	124	5786	120
	1900	9176	1940	7931	257	5880	69
Fri 27	None	Found					
Sat 28	Not	Moni	-tored				

Highlighted cell indicates new or changed loggings

- - - Indicates no 3rd 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)	ID	Decode Key	Grp No.
Tue 1	1830	10343	1850	9264	124	2213	62
Wed 2	1700	8047	1720	6802	463	5813	97
	1830	11435	1850	10598	938	3195	63
	2100	5814	2120	5214	826	687	79
	2110	NRH	2130	9264^	229	1307	107
Thu 3	0630	6784	0650	7684	761	0 0 0	
	1310	12214	1330	10814	282	0 0 0	
	1700	9176	1720	7931	257	1679	95
	1700	10343	1720	9264	124	8197	76
	1800	10343	1820	9264	124	7534	110
	1900	9176	1920	7931	257	3012	69
Fri 4	None	Found					
Sat 5	1310	12214	1330	10814	282	0 0 0	
	2110	10269^	2130	9269^	229	1307	107
Sun 6	None	Found					
Mon 7	0430	4617	0450	5317	638	0 0 0	
	1300	10804	1320	9324	839	1150	191
	1600	11435	1620	10598	938	2746	118
	1700	9176	1720	7931	257	8817	75
	1800	9176	1820	7931	257	1599	66
	1900	9176	1920	7931	257	6257	116

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Tue 8	1830	10343	1850	9264	124	8454	65
Wed 9	1500	9223	1520	8193	839	1150	191
	1700	8047	1720	6802	463	1303	99
	1830	11435	1850	10598	938	5380	69
	2100	5814	2120	5214	826	0 0 0	
	2110	10269^	2130	9264	229	0 0 0	
Thu 10	0630	6784	0650	7684	761	0 0 0	
	1310	12214	1330	10814	282	4690	161
	1700	9176	1720	7931	257	2782	97
	1700	10343	1720	9264	124	2940	78
	1800	10343	1820	9264	124	4250	118
	1900	9176	1920	7931	257	3855	68
Fri 11	None	Found					
Sat 12	1310	12214	1330	10814	282	4690	161
	2110	10269	2130	9269	229	0 0 0	
Sun 13	None	Found					
Mon 14	0430	4617	0450	5317	638	0 0 0	
	1300	10804^	1320	9324^	839	3027	165
	1600	11435	1620	10598	938	8780	116
	1700	9176	1720	7931	257	4892	71
	1800	9176	1820	7931	257	3379	61
	1900	9176	1920	7931	257	7332	117

Highlighted cell indicates new or changed loggings

--- Indicates no 3rd 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)	ID	Decode Key	Grp No.
Tue 15	1830	10343	1850	9264	124	1131	64
Wed 16	1500	9223	1520	8193	839	0 0 0	
	1700	8047	1720	6802	463	7967	93
	1830	11435	1850	10598	938	6907	63
	2100	5814	2120	5214	826	0 0 0	
	2110	NRH	2130	9264^	229	1115	139
Thu 17	0630	6784	0650	7684	761	0 0 0	
	1310	12214	1330	10814	282	0 0 0	
	1700	9176	1720	7931	257	7661	95
	1700	10343	1720	9264	124	3552	74
	1800	10343	1820	9264	124	8457	118
	1900	9176	1920	7931	257	8349	68
Fri 18	None	Found					
Sat 19	1310	12214	1330	10814	282	0 0 0	
	2110	10269	2130	9269^	229	1115	139
Sun 20	None	Found					
Mon 21	0430	4617	0450	5317	638	0 0 0	
	1300	10804	1320	9324	839	1321	241
	1600	11435	1620	10598	938	4000	117
	1700	9176	1720	7931	257	6960	76
	1800	9176	1820	7931	257	1208	67

Highlighted cell indicates new or changed loggings

--- Indicates no 3rd 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)	ID	Decode Key	Grp No.
Tue 22	1830	10343	1850	9264	124	8875	65
Wed 23	1500	9223	1520	8193	839	1321	241
	1700	8047	1720	6802	463	7561	92
	1830	11435	1850	10598	938	7135	67
	2100	5814	2120	5214	826	2462	89
	2110	10269^	2130	9264	229	3455	89
Thu 24	0630	6784	0650	7684	761	0 0 0	
	1310	12214	1330	10814	282	0 0 0	
	1700	9176	1720	7931	257	4366	98
	1700	10343	1720	9264^	124	7730	80
	1800	10343	1820	9264	124	3170	119
	1900	9176	1920	7931	257	6213	68
Fri 25	None	Found					
Sat 26	1310	12214	1330	10814	282	0 0 0	
	2110	10269	2130	9269	229	0 0 0	
		UK	Change	to	GMT	-1Hr	
Sun 27	None	Found					
Mon 28	0430	4617	0450	5317	638	0 0 0	
	1300	10804	1320	9324	839	7776	193
	1600	11435	1620	10598	938	4406	109
	1700	9176	1720	7931	257	1723	79
	1800	9176	1820	7931	257	1927	60
	1900	9176	1920	7931	257	3240	101

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Sep kHz, ID, ...	Oct kHz, ID, ...	Nov kHz, ID, ...	Dec kHz, ID, ...	General Remarks
x							0450		E11	03	6304 416/00	6304 416/00	5082 416/00	5082 416/00	since 02/10, last log 09/13
		x	x				0545		E11	03	15915 348/00	15915 348/00			since 06/11, last log 10/13
	x		x				0645		E11	03	10800 517/00	10800 517/00	7840 517/00	7840 517/00	since 07/09, last log 09/13
	x			x			0710		E11	03	10221 633/00	10221 633/00	10800 633/00	10800 633/00	since 02/11, last log 10/13
	x		x				0745		E11	03	14575 335/00	14575 335/00	16112 335/00	16112 335/00	since 10/11, last log 10/13
x			x				0820		E11	03	9079 438/00	9079 438/00	7317 438/00	7317 438/00	since 10/09, last log 09/13
x				x			0830		E11	03	10690 649/00	10690 649/00	9446 649/00	9446 649/00	since 01/10, last log 09/13
x	x						0900		E11	03	9399 534/00	9399 534/00	9446 534/00	9446 534/00	since 10/09, last log 09/13
			x		x		0900		E11	03	4909 248/00	4909 248/00	4441 248/00	4441 248/00	since 02/10, last log 10/13
	x			x			0915		S11A	03	7317 484/00	7317 484/00	7504 484/00	7504 484/00	since 01/10, last log 09/13
x			x				1015		S11A	03	16112 475/00	16112 475/00	12530 475/00	12530 475/00	since 04/10, last log 09/13
	x			x			1020		S11A	03	9960 426/00	9960 426/00	9610 426/00	9610 426/00	since 02/10, last log 09/13
		x			x		1020		S11A	03	5815 221/00	5815 221/00	6433 221/00	6433 221/00	since 01/09, last log 07/13
	x						1045		E11	03	13873 576/00	13873 576/00	x10800 576/00, search	x10800 576/00, search	since 01/12, last log 09/13
	x	x					1045		E11	03	7449 469/00	7449 469/00	8091 469/00	8091 469/00	since 03/10, last log 09/13
x				x			1110		E11A	03	13375 95#/#	13375 95#/#	14410 95#/#	14410 95#/#	since 12/11, last log 09/13
	x	x	x				1115		M03	03	9150 272/00 (Tue) & 650/00 (Wed/Thu)	9150 272/00 (Tue) & 650/00 (Wed/Thu)	4828 272/00 (Tue) & 650/00 (Wed/Thu)	4828 272/00 (Tue) & 650/00 (Wed/Thu)	since 10/09, last log 10/13
		x	x			x	1155		E11	03	15915 718/00	15915 718/00	15632 718/00	15632 718/00	since 04/11, last log 10/13
			x			x	1320		M03	03	9150 437/00	9150 437/00	4828 437/00	4828 437/00	since 02/11, last log 09/13
				x	x		1325		G11	03	5815 299/00	5815 299/00	6433 299/00	6433 299/00	since 03/10, last log 10/13
	x				x		1400		E11A	03	13375 98#/#	13375 98#/#	10690 98#/#	10690 98#/#	since 10/11, last log 10/13
		x			x		1445		E11	03	4909 287/00	4909 287/00	4441 287/00	4441 287/00	since 11/10, last log 10/13
	x				x		1535		M03	03	6977 798/00	6977 798/00	5358 798/00	5358 798/00	since 11/10, last log 10/13
x						x	1540		E11	03	15915 228/00	15915 228/00	15632 228/00	15632 228/00	since 03/11, last log 10/13
x				x			1710		E11A	03	5194 95#/#	5194 95#/#	6924 95#/#	6924 95#/#	since 11/11, last log 10/13
			x				1730		E11	03	9371 416/00	9371 416/00	5082 416/00	5082 416/00	since 03/10, last log 10/13
	x				x		1755		G11	03	5815 270/00	5815 270/00	6433 270/00	6433 270/00	since 02/10, last log 10/13
	x				x		1810		E11A	03	13455 98#/#	13455 98#/#	10213 98#/#	10213 98#/#	since 08/12, last log 10/13
				x			2000		E11	03	7377 576/00	7377 576/00	x4536 576/00, search	x4536 576/00, search	since 03/12, last log 10/13
				x	x		2000		G11	03	6433 262/00	6433 262/00	4441 262/00	4441 262/00	since 01/11, last log 09/13

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Sep kHz, ID, ...	Oct kHz, ID, ...	Nov kHz, ID, ...	Dec kHz, ID, ...	General Remarks
x							0800		G06	01A	6774 215	6774 215	5363 215	5363 215	since 07/10, last log 10/13
			x				1200	?	G06	01A	4526 215	4526 215	search 215	search 215	since 09/11, last log 03/13
			x				1300	?	G06	01A	4526 215	4526 215	search 215	search 215	since 09/11, last log 09/13
x							1700	1/2	G06	01A	4569 564	4569 564	3673 564	3673 564	since 04/10, last log 10/13 yearly changing frequencies + id
x							1800	1/2	G06	01A	5424 564	5424 564	4515 564	4515 564	since 05/09, last log 10/13 yearly changing frequencies + id
			x				1830	2/4	G06	01A	5935 579	5935 579	4519 271	4519 271	since 05/01, last log 10/13
				x	x		1900	1/3	G06	01A	239, search	239, search	239, search	239, search	since 05/13, last log 08/13
				x			1930	2/4	G06	01A	5442 218	5442 218	4792 218	4792 218	since 04/01, last log 09/13 repeat of Thu 1930Z
				x	x		2000	1/3	G06	01A	7377 239	7377 239	239, search	239, search	since 04/13, last log 09/13 repeat of 1900Z

Current Cuban Skeds V02/M08/SK01
September-October 2013

	Mon	Tue	Wed	Thu	Fri	Sat	Sun
0000							
0100							
0200							
0300							
0400							
0500							
0600							
0700							
0800							
0900							
1000							M08a?
1100							
1200							
1300							
1400	8097()	8097()	8097()	8097()	8097()	8097()	
1500							
1600							
1700							
1800							
1900							
2000	7554()	7554() V02a?	7554()	7554() V02a?	7554()	7554()	
2100							
2200		8135()					
2300	8009()	8135()	8009()	8135()	8135()		

Notes

V02a skeds are indicated in italic fonts.

M08a skeds are indicated in normal fonts.

SK01 skeds are in normal fonts with (SK) after the frequency

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.

Message types shown with ? but no indicate possible sked on unknown frequency.

Frequencies in Bold indicate heard in the last two months. Red font indicates heard 2-4 months ago.

Thanks to Cuban Desk Contributors

Roland (py4zbz), Hans Snekvik, Vince Havrilko, Daniel, GD, Jochen NumbersKopf, Steve H, JimKC, Thomas (tiNG), Rich Burr, Hugh Stegman, synesthetix

HM01 Schedule

Freq 1	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
5855	0500	0500		0500		0500	
12120			0500		0500		0500
14375			0500		0500		0500
10345	0600	0600		0600		0600	
14375			0600		0600		0600
5930			0600				
10340			0600				
11565					0600		
10715						0600	
9330	0700	0700		0700		0700	
13435			0700		0700		0700
5930			0700				
7980					0700		
10340			0700				
9065	0800	0800		0800		0800	
11635			0800		0800		0800
7980					0800		
9240	0900	0900		0900		0900	
12120			0900		0900		0900
7980					0900		
5855	1000	1000		1000		1000	
9155	1000	1000		1000		1000	
12180			1000		1000		1000
11635			1000		1000		1000
11435	1600	1600	1600	1600	1600	1600	1600
11530	1700	1700	1700	1700	1700	1700	1700
11635	1800	1800	1800	1800	1800	1800	1800
11635	2100	2100		2100		2100	
16180			2100		2100		2100
10715	2200	2200		2200		2200	
17480			2200		2200		2200
11530	2300	2300		2300		2300	
17540			2300		2300		2300
					27/10/2013		

SPECIAL MATTERS:

Operation Jallaa: 0



MESSAGES:

'E' Many thanks your input. Radio survey of site before changing!

RELEVANT WEBSITES

ENIGMA 2000 Website:

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

Frequency Details can be downloaded from:

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

More Info on 'oddities' can be found on Brian of Sussex' excellent web pages:

<http://www.brogers.dsl.pipex.com/page2.html>

Time zone information:

<http://www.timeanddate.com/library/abbreviations/timezones/>

Encyclopedia of Espionage, Intelligence, and Security

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

EyeSpyMag!

<http://www.eyespymag.com>

2013

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		

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
31						

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			

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