

# ENIGMA 2000 NEWSLETTER



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



Top Left: Christine Keeler, Centre: Newspaper headlines, Top Right: Mandy Rice-Davies, Bottom Left: Stephen Ward, Centre 16 Kensington Palace Gardens London, where Christine Keeler's Russian Naval Attaché lover Yevgeni Ivanov lived, Note the antennae, VGDSH caged dipole, centre loaded vertical and shorter VHF/UHF rods. Bottom Right: John (Jack) Profumo.

2013 represents fifty years from the ruination of Harold Macmillan's Conservative Government due to a series of events caused by the relationship between Christine Keeler, a showgirl-cum-hostess and Dr Stephen Ward, a socialite osteopath whom she met late 1960. Through Ward's socialite contacts Christine was introduced to the then Minister for War John Profumo, also called Jack. Christine also had a friend, Mandy Rice-Davies and Ward eventually took both to a party thrown by Lord Astor at Clivedon mid June 1961. There an attraction was struck between Jack Profumo and Christine after Stephen Ward made the introduction. As well as Jack Profumo, Christine was also introduced to Commander Yevgeni Ivanov, a Soviet naval attaché at the Russian Embassy in London who gave his address as 16 Kensington Palace Gardens.[Centre pic].

In March 1963 certain behaviours were become known about and question in Parliament Jack Profumo stated, "There was no impropriety whatever in my acquaintance with Miss Keeler and I have made the statement because of what was said yesterday in the House by three honourable members whose remarks were protected by privilege." In June 1963 Stephen Ward was arrested for living off immoral earnings [ie charging for the services of Misses Keeler & Rice-Davies] and the matter boiled to a head for Profumo who resigned in the House a couple of days later.

Stephen Ward's trial at the Old Bailey ran through August 1963 with Dr Ward committing suicide the day before the verdict. Mandy Rice-Davies escaped without trial but Christine Keeler was sent for trial for perjury December 1963, found guilty and given a sentence of nine months imprisonment.

Christine and Mandy are still alive, Jack Profumo turned to charity work at the Toynbee Hall in London's East End and passed away 9th March 2006, aged 91. Eugene Ivanov, who it is said asked Christine to obtain details of our nuclear bomb, returned to Moscow and eventually died 17<sup>th</sup> January, 1994 aged 68.

*On talking about Ivanov's request for details of our nuclear weapon Christine replied to a reporter, "I'm no spy, I just couldn't ask Jack for secrets."*

See also PoSW's 'Items of Interest in the Media'

## ISSUE 78

### September 2013

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See last page also.

Before we enter the 'member contributions' for which ENIGMA2000 is always grateful I have been asked to mention that I have received three complaints about certain members who never post anything then apparently take delight in suddenly appearing to correct others' mistakes. Those complaining stated .... 'that its a pity you don't post your logs to Group.'

Please try to be a little more Group oriented

Now onto our round-ups and analysis .....

### Morse Station Roundup.

- M01 The regular M01 scheds continue to provide a challenging series of transmissions with their latest tactic of sending groups as a continuous stream of numbers & additionally now dropping an occasional number on the repeat group to further confuse the recipient. All good training for the CW enthusiasts among us.
- On Tue 30 July, they ended the month by sending the Tue scheds on the M01/2 schedule which meant that the wrong set of frequencies and call were used. Thanks to Jim (JkC) this was picked up early in the 1800z call up & both scheds were successfully logged. Good work Jim!
- M01a A rare catch since changing from a regular end of month schedule, now appears as a random transmission, identified by the current format of sending 5fig grp x 2 followed by 5fig grp x 3 (repeated). This example, on Aug 21 found by Jean-Paul (JPL)
- Thanks to our Morse monitors there are a good selection of M01b & M01c logs too.
- M08a **Some scheds are still operational.** Our regular stateside contributor AnonUS has sent us a comprehensive log of M08a transmissions received over the last two months, and has identified three regular schedules that are still in use. A splendid effort from AnonUS.
- M12 All back to a normal schedule now following the missing few days at the start of May. Still experiencing some technical issues from time to time, with occasional restarts and some clipping on some call-up characters.
- A new Thursday sched has appeared, found by Richard (RNGB), with ID 725 - an old call that has not been heard since January 2008.
- M14 A previously unknown format was heard by Richard (RNGB) on 10 July when a regular sched - usually machine sent, was sent by hand and containing errors. Was this a 'one-off' caused by some technical or admin problem?
- M23 Several calls were reported in July, but no activity at all reported in August, although the hourly 'dash' was present on 7442kHz until the middle of August when that too suddenly ceased.
- M89 Continues to change and evolve with new calls and new freqs appearing regularly, while some of the older scheds cease to be used. Jean-Paul (JPL) providing the usual full logs and notes of changes found.
- M97 Following the June msg, SD 81, SD 88 was sent on 09 & 15 July, followed by SD 83 (17 & 31 July) & SD 84 (four sendings in Aug). What was at first thought to be a deviation from the incremental numbering of these msgs is now believed to be due to a simple numbering error.
- Beacons To complete the Morse section we have another selection of beacon logs, including a couple of 'rogue' beacons, one of which had several of us puzzled for a day or two.

### Hybrid Station

- HM01 From the British/European side there has been four person's logs and it falls on PoSW to provide some insight as to the Cuban Hybrid's behaviour from the British point of view.
- The expected US response, where reception of the station is somewhat easier, has sadly been minimal for our Cuban Desk via group logs but helped by our Argentine member. This is not good given the amount of American 'members' we actually have. If they consider this group as just a service for them, then perhaps they'd like to do the decent thing and remove themselves.

### Voice Stations Round up

- E06 Usual schedules seen although the Thursday 15 group transmission at 2030z seems to be difficult from South England.
- E07 Usual variable service from this station. Sun/Wed 1700z schedule seems to be changing its freqs as seen during the past year. The strong signals experienced with the Mon/Wed sendings appears to have returned to its previous carrier/low audio offering we had come to expect although the local rising noise levels are not helping.
- E17z Logs as expected with usual length messages and some unexpected repetitions.
- E25 Thanks to both Douglas and Manolis for their logs as they research this station's habits. If there is indeed a change its being addressed accordingly. Messages still apparent on 6140 and 9450kHz.
- E11 & FamIII Activity as expected.
- G06 As active as always; never disappoints as it sounds like so many of the now discontinued Cold War stations.
- S06/S06c/S06s Very active as usual and well reported.
- S21 Alive and kicking, with usually very variable signals.
- V02a Surprise logs submitted for both July and August

V07 Logs sent in by T, DanAr and Guy.  
V13 Logs submitted – good coverage across August  
V21 Quiet period but Babblar logged.

Thanks to all our active members.

### Polytones

Quick word of thanks to the members who assisted with the intercepts for these during certain problem .... notwithstanding influences from British Rail, or whatever its calling itself this week.

Nothing really notable apart from the apparent problems with images appearing  $\pm 50\text{kHz}$  from nominal freq and others at +1 and +2kHz on the XPA2 unclassified on Tuesdays at 1900z. Total failure of the last sending after 27s intro on 27/08. The usually strong XPA2 m at 2000z that followed had weak, odd sounding signals.

Note the sudden rise in Group counts during the last week of August as tensions rise for Syria. Is there a link here? Who knows?

### 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)

Today we have 3 interesting news from Germany, which we'll bring chronologically now as they came in, before the X06 logs will come as usual.

Request for numbers tracks for music

Numbers stations in music pieces are modern for a longer time. In August, another German experimental music band asked me for numbers station tracks for their music productions. I recommended the "JochenKopf.htm" page on Simon Mason's website. There you can find a lot of my numbers station recordings from 1980-90. In any case it's better to bring different stations to the Conet Project, which is known to the most people.

Numbers station referat on DX-camp

Between September 12<sup>th</sup> and 18<sup>th</sup>, the "Rhein-Main-Radio-Club (RMRC)" will make its 52<sup>nd</sup> DX-camp in Wetzlar/Midwest Germany. On the "Camp Saturday", September 14<sup>th</sup>, I will speak about the numbers stations. There I will bring a lot of my recordings, of course mentioning E2K and E2Kde.

Buzzer news

You surely remember back to EN76, where I reported about the feature "Buzzer on air" in German radio. This one will come to the public during the "Berlin Radio Play Festival" (<http://berliner-hoerspielfestival.de>), which will take place on the last September weekend. I look forward to be there, and if this is the case, I will report about it in EN79.

### X06 Mazielka (1C) logs section

Date	Day	UTC	Freq	Scale	Monitor	Comments
20130702	Tue	0753-0756	11462	165423	Peter/UK	Fair, M664
20130702	Tue	0926-0932	18206	246531	Peter	S9 - perfect tone match (Hz), M665
20130703	Wed	0839-0848	13465	362154	Peter	Fair, M666
20130703	Wed	0946-0950	18346	214356	Peter	Fair, M667
20130704	Thu	0654-0658	17468	436512	Peter	Good, M668
20130704	Thu	0833-0835	14448	162543	Peter	Mis-tuned (probably 14446kHz), M669
20130705	Fri	0622-0631	16320	241563	Peter	Good and strong, M670
20130705	Fri	0956-0959	14501	361245	Peter	Good and strong, M671
20130705	Fri	1025-1027	14824	625413	Peter	S1, M672
20130705	Fri	1356-1401	14650	215346	Peter	S1, M673
20130708	Mon	0819-0826	15871	156234	Peter	S1, G
20130708	Mon	0944-0949	16117	463125	Peter	Strong, M674 (CROWD36 at 0955)
20130709	Tue	0758-0804	13420	534216	Peter	Fair/poor, M675
20130709	Tue	1015-1030	11025	612534	Peter	S1, inaudible but visible, M676
20130710	Wed	0854-0859	16116	134265	Peter	Good, M677
20130710	Wed	1125-1126	15878	621543	Peter	Alert 2.1 Fair/good, M678
20130710	Wed	1127-1134	14944	621543	Peter	2.2 Good, M679
20130711	Thu	0945-0948	13506	164532	Peter	Fair, M680
20130711	Thu	1010-1023	13839	6--1-- tiNG		X06b, strong and long
20130711	Thu	1231	17470	216354	MCO/US	R
20130711	Thu	1554	10535	564213	Gary/UK	Shortie - weak with faids, M681
20130712	Fri	1005-1011	19611	256134	Peter	Fair, M682
20130715	Mon	1515	16115	215346	Gary	Weak, M683
20130715	Mon	1641-1647	12199	532614	Peter	S9, M684
20130717	Wed	0844-0846	14631	362154	Peter	Fair, M685
20130718	Tue	0721-0723	14446	162543	Peter	M686(1)
20130718	Thu	1107-1114	16320	216354	Peter	R(1)
20130718	Thu	1240-1247	16025	352416	Peter	G
20130719	Fri	0623-0628	16320	241563	Peter	Good, M687
20130719	Fri	0932-0938	18197	645321	Peter	Fair, M688
20130719	Fri	0956-1000	12215	361245	Peter	Good, M689
20130722	Mon	0721-0724	16115	215346	Peter	Good, G
20130722	Mon	0901-0907	12109	431625	Peter	Good, G
20130722	Mon	0933-0938	16117	463125	Peter	Good, M690
20130723	Tue	0755-0807	13420	534216	Peter	Fair, M691
20130723	Tue	1630-1640	10243	1--6-- tiNG		X06b in progress (USB)
20130724	Wed	0757-0759	13419	465132	Peter	Weak, M692

20130724	Wed	0855	16116	134265	Peter	Good shortie, M693
20130725	Thu	0756-0757	14419	521634	Peter	Fair, M694
20130725	Thu	0943-1059	13506	164532	Peter	Alert 2.1 Good and very long, M695
20130725	Thu	0949-0950	11411	164532	Peter	2.2 Good and short, M696
20130725	Thu	1413-1416	10214	263145	Peter	S9+20, M697
20130725	Thu	1517-1520	12158	564213	Peter	S9+20, M698
20130726	Fri	0744-0748	10653	356412	Peter	Good, M699
20130729	Mon	0423-0604	14377	432516	Peter	Good and VERY long, R
20130729	Mon	1114-1124	11200	432516	Peter	Poor, G
20130731	Wed	0932	12220	241563	Peter/>NL	R
20130731	Wed	1120-1149	12200	241563	Peter	Alert 3.1 Poor, R
20130731	Wed	1155-1206	16320	241563	tiNG	3.2 Good, G
20130731	Wed	1215-1216	12200	241563	tiNG	3.3 R
20130801	Thu	1252	19405	352416	MCO	G
20130801	Thu	1908	10815	241563	Ian Wraith	Alert 2.1 S1 (only visible), R
20130801	Thu	1915-1922	12200	241563	tiNG	2.2 Monitored i. p., good, R
20130805	Mon	0651-0654	10161	165324	Peter	fair, M700
20130805	Mon	1542-1546	14391	532614	Peter	Good, G
20130806	Tue	0800-0803	11462	165423	Peter	Fair, M701
20130806	Tue	0849-0858	13401	154263	Peter	Alert 2.1 Fair, M702
20130806	Tue	0900-0903	11085	154263	Peter	2.2 Good, M703
20130806	Tue	0931-0938	18206	246531	Peter	Alert 7.1 S9+10, M704
20130806	Tue	0953-0954	18206	246531	Peter	7.2 Fair, M705
20130806	Tue	1012-1015	14812	246531	Peter	7.3 Fair, M706
20130806	Tue	1017-1030	17421	246531	Peter	7.4 Good, M707
20130806	Tue	1036-1042	18206	246531	Peter	7.4 Fair, M708
20130806	Tue	1053-1100	14812	246531	Peter	7.5 Good, M709
20130806	Tue	1102-1103	17421	246531	Peter	7.6 Good, M710
20130807	Wed	0839-0842	14631	362154	Peter	Fair, M711
20130807	Wed	1011	18346	214356	Peter	Shortie with S9, M712
20130808	Thu	0943-0951	13506	612534	Peter	Unusual scale, strong, G
20130808	Thu	1420-1425	17470	216354	Peter	Alert 2.1 Good, G
20130808	Thu	1427	14970	216354	Peter	2.2 Weak shortie, M713
20130808	Thu	1434	10214	263145	Peter	Weak shortie, M714
20130808	Thu	1522-1526	10535	564213	Peter	Good, M715 (CROWD36 2 mins later)
20130809	Fri	0742-0746	10653	356412	Peter	Good, M716
20130809	Fri	0957-1002	20605	256134	Peter	Good, M717
20130809	Fri	1418-1421	12091	216354	Peter	Alert 2 (both S1 and R) 1
20130809	Fri	1423-1428	14970	216354	Peter	2.2
20130809	Fri	1617-1618	14650	215346	Peter	Strong, G
20130812	Mon	0934	16117	463125	Peter	Fair shortie, M718
20130813	Tue	0803	13420	534216	Peter	Fair shortie, M719
20130813	Tue	0815-0817	16257	542136	Peter	Good, M720
20130813	Tue	1021-1024	11025	612534	Peter	S1, M721
20130814	Wed	0756-0759	13419	465132	Peter	Good, M722
20130814	Wed	0854-0855	16116	134265	Peter	Good, M723
20130815	Thu	1202-1218	16320	216354	Peter	Good and long, M724
20130816	Fri	0934-0940	18197	645321	Peter	Barely audible, just visible, M725
20130816	Fri	0955-0957	14501	361245	Peter	Alert 7.1 S9+, M726
20130816	Fri	0958-1001	14501	361245	Peter	7.2 S1, M727
20130816	Fri	1002	14501	361245	Peter	7.3 Single burst, M728
20130816	Fri	1005	12215	361245	Peter	7.4 Single burst, M729 (C36 @ 1009)
20130819	Mon	1636-1650	17517	314265	Gary	New freq, R
20130820	Tue	0752-0756	11462	165423	Peter	Good, M730
20130820	Tue	0824-0825	15687	154263	Peter	S1, M731
20130827	Tue	0755-0915	14947	351264	RNGB, Ian	New freq, very long, R (missed end)
20130827	Tue	1015	16317	612534	Ian	Weak, M732 (missed end)
20130828	Wed	0854-0855	13985	134265	Kopf	Strong, M733

1) In both cases, the tones were not audible. Perhaps the transmissions came on neighbouring frequencies this time?

Much interesting stuff again as usual, next time with more of it. Till then I say "Auf Wiedersehen" and "Good-bye"

Jochen Schäfer, KopfE2Kde and X06 Teamkopf

*Thanks Jochen and X06 practitioners*

## Morse Stations

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

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

**M01/3** XIV MCW, hand (025 sched for May - Aug). Will change to M01/2 sched ID 463 for Sept - Oct.

### July 2013:

4905	2000z	02Jul	'025' 454 30 = =	68007...	...LG 96531 = =	V. strong, fast with errors (Ends 2008z)	CB/JkC	TUE
	2000z	04 Jul	'025' [614 30]	07169...	...LG 28553	Strong, fast. No preamble. <b>Rpt of 1800z msg</b>	CB	THU
	2000z	09 Jul	'025' 094 30 = =	96209...	...LG 29255	Strong, fast. Numerous errors. Streamed grps	BR/CB/JkC/tiNG	TUE
	2000z	11 Jul	'025' 718 30 = =	64726...	...LG 18308 = =	Fair (Ends1808z) (Same msg as 02 Jly 1800z)	JkC	THU
	2000z	16 Jul	'025' 401 30 = =	01054...	...LG 70196	Good, fast. With errors.	BR/CB	TUE
	2002z	18 Jul	'025' 819 30 = =	95932...	...LG 39156 = =	Good, v.fast. Tx heard switching on	BR/CB	THU
	2000z	23 Jul		NRH			BR/CB	TUE
	2000z	25 Jul	'025' 398 30	53560...	...LG 17819	Strong,slow. Sent <b>389 389</b> as ending DK	BR	THU
5280	1802z	02 Jul	'025' 310 30 = =	64726...	...LG 18308 = =	Weak, fast. Poor copy. 2mins late start	BR/JkC	TUE
	1800z	04 Jul	'025' [614 30]	07269...	...LG 28553	Good, fast. No preamble. Numerous errors	BR/CB/JPL	THU
	1800z	09 Jul				Extremely weak. Barely audible	BR	TUE
	1800z	11 Jul	'025' 521 30 = =	22835...	...LG 48415 = =	Fair (Ends1809z)	JkC	THU
	1800z	16 Jul	'025' 770 30	.....	...LG 90009	Poor sig via Twente online Rx	BR	TUE
	1800z	18 Jul	'025' 433 30 = =	6365...	...LG 15491 = =	Weak, v.fast. Poor copy	BR	THU
	1800z	23 Jul		NRH			BR/CB	TUE
	1800z	25 Jul	'025' 452 30	07369...	...LG 28537	Fair, slow staccato delivery	BR	THU
6435	1500z	06 Jul		NRH			BR/CB	SAT
	1500z	13 Jul		NRH			CB	SAT
	1500z	20 Jul	'025'			Very weak, fast. Only about 50% copy - All mid-msg	BR	SAT
6780	0700z	07 Jul		NRH			BR/CB	SUN
	0700z	14 Jul	'025' 015 30	42007...	...LG 03162	Fair, med-fast staccato. Grp01 42007 42107	BR	SUN
	0700z	21 Jul	'025' 514 30 = =	36981...	...LG . . . . .	Fair, med-fast. Sig deteriorated by mid-msg	BR	SUN
	0700z	28 Jul	'025' 014 30	92747...	...LG 00022 = =	Good, med-fast. Msg sent as continuous figs	BR	SUN

For the last sending of the month M01 sprung another little surprise on us by using the M01/2 sched call-up and freqs, in place of the correct M01/3 sched. The M01/2 sched uses the 463 call and is used in Mar - Apr & Sept- Oct.

It was some excellent work from Jim (JkC) in finding the 1800z sched that enabled us to expect & successfully find the 2000z transmission on the same sched.

5020	2000z	30 Jul	'463' [710 30]	65249...	...LG 65049 = =	Strong, med-fast. Rough tone at times	BR/JkC	TUE
5474	1800z	30 Jul	'463' 215 30	45407...	...LG 81015	Ends 1812z	JkC	TUE

### August 2013:

4905	2000z	01 Aug	'025' 703 30 = =	00662...	...LG 77765 = =	Fair, Grp10 85409 85309. 0000 sent at end	CB	THU
	2000z	06 Aug	'025' 779 30 = =	96209...	...LG 29255 = =	Strong, Slow. Numerous errors	BR/JkC	TUE
	2000z	08 Aug		NRH			BR/CB	THU
	2000z	13 Aug	'025' 071 30 = =	42854...	...LG 23268 = =	Good, med-fast. Start DK sent as 082 072	BR	TUE
	2000z	15 Aug	'025' 126 30 = =	55638...	...LG 35236 = =	Good, med-fast. Several errors noted	BR/CB	THU
	2000z	20 Aug	'025' 331 30 = =	17698...	...LG 91999 = =	V.strong, slow. Several errors noted	BR/CB	TUE
	2000z	22 Aug	'025' 574 30	47171...	...LG 61187	Strong, slow, staccato. 31 grps sent	BR	THU
	2000z	27 Aug	'025' 910 30	63650...	...LG 15491	Strong, slow. Several errors noted	BR/CB/JkC	TUE
	2000z	29 Aug	'025' 634 30	88249...	...LG 77729 = =	Strong, fast. Multiple errors	BR	THU
5280	1800z	01 Aug	'025' 936 30 = =	.....	...LG 94164 = =	Very weak. Details via Twente SDR	BR	THU
	1800z	06 Aug	'025' 345 30	41590...	...LG 44554 = =	Good, Slow, Numerous errors	BR	TUE
	1800z	08 Aug		NRH			BR/CB/GD	THU
	1800z	13 Aug	'025' 503 30 = =	22710...	...LG 84904 = =	Fair, med-fast. Multiple errors	BR	TUE
	1800z	15 Aug	'025' 813 30	46537...	...LG 18537	Strong, med-fast. Multiple errors	BR	THU
	1800z	20 Aug	'025' 123 30 = =	11798...	...LG 18019 = =	Good, slow. Several errors noted	BR	TUE
	1800z	22 Aug	'025' 135 30	37212...	...LG 47590	Good, slow, staccato. Error in grp06	BR/CB	THU
	1800z	27 Aug	'025' 826 30	95932...	...LG 31956	Good, slow. Several errors noted	BR/CB	TUE
	1800z	29 Aug	'025' 448 30 = =	24349...	...LG 48868 = =	Fair, med-fast. Several errors noted	BR	THU
6435	1500z	03 Aug	'025' 642 30 = =	07269...	...LG 28537 = =	Fair, med-fast. DK & GC sent once only	BR	SAT
	1500z	10 Aug	'025' 378 30 / =	00643...	...LG 98712 = =	Weak, fast. Excellent sending.	BR	SAT
	1500z	17 Aug	'025' 227 30 = =	11986...	...LG 33137 = =	Weak, fast. No errors	BR	SAT
	1500z	24 Aug		NRH			BR	SAT
6780	0700z	04 Aug	'025' 726 30 = =	53560...	...LG 17819 = =	Strong, med-fast. Irreg. spacing. Two errors	BR/CB/RNGB	SUN
	0700z	11 Aug	'025' 379 30 = =	11008...	...LG 38158	Strong, fast. Numerous errors	BR	SUN
	0702z	18 Aug	'025' 504 30 = =	74378...	...LG 34958 = =	Good, med-fast. Late start. No errors	BR	SUN
	0700z	25 Aug	'025' 215 30 = =	63406...	...LG 12720 = =	Fair, fast. Several errors. Irregular spacing	BR	SUN

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

This rare catch from Jean-Paul (JPL) via the online remote receiver in Finland;

5074	1802 - 1818z	21 Aug	In progress at 1802z	(Remote Tuner Finland)	JPL	WED
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(In tfc – 1803z)

614 614 55516 55516 614 614 55516 55516 55516 614 614 (1804z - Silent)

614 614 614 55414 55414 55414 (1808z)

614 614 614 55414 55414 55414 55414 (1809z)

000 (1810z)

**M01b****July 2013:**

4766	1520 (IP) - 1526z	04 Jul	212 50 == . . . . . 37141 =	(In progress) (Remote Tuner Finland)	JPL	THU
4895//5340	2010 - 2028z	05 Jul	'467' 121 35 == 39863 ... 53391 =	Fair//Fair Repeat of 05 Jul 1902z	JkC	FRI
5065//5805	1942z	11 Jul	'936' 121 35 == 39863 ... 53391 =	Fair//Fair Repeat of 11 Jul 1832z	JkC	THU
5075//5465	1902 - 1921z	05 Jul	'336' 121 35 == 39863 ... 53391 =	Fair//Fair	JkC	FRI
5095	1832 - 1851z	11 Jul	'815' 121 35 == 39863 ... 53391 =	Fair (//5760kHz NRH)	JkC	THU
5125//5735	1810 - 1728z	22 Jul	'364' 121 35 == 39863 ... 53391 =	Fair//Fair	JkC	MON
	1815z (IP)	29 Jul	121 35 == ....53391 ==	Strong. Ended 1827	Topol	MON
5150//5475	1915z	08 Jul	'858' 908 43 == 13026 ...	QRM from digital station on 5151kHz	FN	MON
	1915 - 1733z	22 Jul	'858' 121 35 == 39863 ... 53391 =	Fair//Fair Repeat of 22 Jul 1810z	JkC	MON
5810	1515z (IP)	19 Jul	831 30 == ... 88377 ==		HFD	FRI
5938	1505 - 1520z	11 Jul	'159' 831 30 == 61979 ... 88377 =	Fair	JkC	THU

**M01b 5075//5465kHz 1902z 05 July13**

336(R4) 121 121 35 35 ==

39863 58619 90843 13026 45950  
 01008 90179 70258 54507 55494  
 51849 96269 32731 77667 93112  
 14330 19154 91911 48430 67066  
 40934 66906 82222 76503 99914  
 49240 57331 77124 54555 53339  
 51110 12809 74082 40713 53391  
 == 121 121 35 35 000  
*Courtesy JkC*

**M01b 5938kHz 1505z 11 July13**

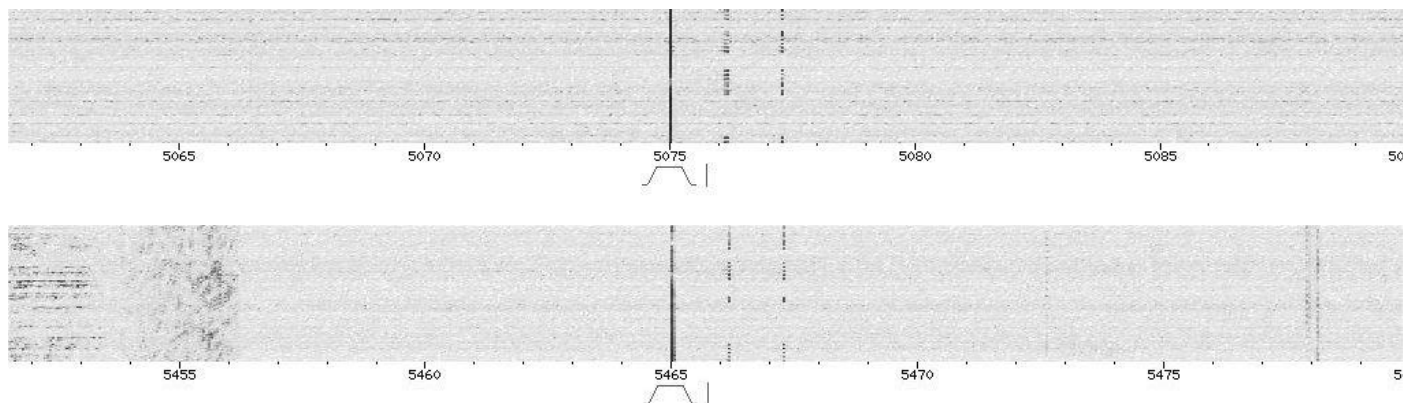
159 (R4) 831 831 30 30 ==

61979 03874 01041 37960 25076 49815  
 21594 99298 83162 20933 16116 16634  
 36124 02956 59753 50649 49655 30315  
 19968 68758 18997 23438 37202 36574  
 56466 05505 11649 59129 56901 88377  
 = = 831 831 30 30 000  
*Courtesy JkC*

**August 2013:**

4895//5340	2010 - 2026z	09 Aug	'467' ??? 30 ... Too weak to copy ...	Very weak//Very Weak	JkC	FRI
5095	1832z	15 Aug	'815' 305 30 ==		GD	THU
5125	1810z	05 Aug	'364' 305 30 ==		GD	MON
5125//5735	1810 - 1826z	26 Aug	'364' 305 30 == 76387 ... 34171	Fair//Fair	JkC	MON
5150//5475	1917 - 1933z	26 Aug	'858' 305 30 == 76387	Weak//Fair. Carrier up 1915z, msg started 2m late	JkC	MON
5475	1915z	05 Aug	'364' 305 30 ==	ID sent as 364, should be 858	GD	MON
5805	1942z	15 Aug	'936' 305 30 ==		GD	THU
5810	1515z	02 Aug	'158' 551 30 == 83789 85826 32926 82841	74716.....91973	RNGB	FRI
	1515z	23 Aug	'158' 551 30 == 83789 85826 etc.		RNGB	FRI





Fri 02 Aug 2013 1902z M01b In progress transmitting in MCW with 2 tones on 5075//5465kHz (Monitored via the Twente SDR) *Courtesy HFD*

Note: This same unusual 'two-tone' MCW technique is used on both the M01 transmissions and M45 transmissions...

### M01c

3318	1937 - 1949z	10 Jul	(In tfc) (Remote Tuner Finland)	JPL	WED
	(In tfc – hand sent - 1937z)				
	316 316 316 230 50 230 50 (Cont'd)(Silent – 1940z)				
	710 710 710 220 95 220 95 (Cont'd - 1941z)(Silent 1944z)				
	111 (1944z)				
	111333 (1945z)				
	111 (1945z) 111 999 (1947z)				
	63510 BT .01.7 82 (Lost remote tuner momentarily – 1948z)				
	75152 91567 63510 000 (1949z)				
3612	2306 - 2309z	16 Jul	(In tfc) (Remote Tuner Russia)	JPL	TUE
	(In tfc – 2306z)				
	619 10 BT				
	33533 52440 03561 1..20 64244 71616 86080 55772 79652 30226 BT				
	619 10				
	111 000 (Silent – T=0 - 2309z)				
4859	1927(IP) - 1940z	11 Jul	(In progress) Fair	JkC	THU
	(In progress)				
	333 222 (1927z)				
	111 (1928z)				
	532 532 532 333 223 40 223 40 (1931z)				
	532 532 532 333 223 40 223 40				
	2234				
	111 (1932z)				
	111 999 (1937z)				
	847 10 = 77688 22436 809.6 7.971 ..167 ..851 68176 69..7 87913 19003 =				
	847 10				
	111 000 (1940z)				

**M03** III ICW, some CW

6524	1535 - 1538z	09 Jul	798/00 == 000 Strong	JkC	TUE
	1535 - 1551z	23 Jul	798/31 == 05524 ... 82027 = = Fair	JkC	TUE
	1535 - 1538z	06 Aug	798/00	JkC/RNGB	TUE
	1535z	13 Aug	798/31 == 69974 0187029284 03544 18566.....61097	RNGB	TUE
7727	1320z	05 Aug	543/00	RNGB	MON
7837	1115 - 1130z	06 Aug	270/30 == 74782 ... 47901 = = Weak	JkC	TUE
	1115 - 1118z	13 Aug	272/00 == 000 Fair	JkC	TUE
	1115z	22 Aug	650/00	RNGB	THU
	1115 - 1118z	21 Aug	469/00 == 000 Fair	JkC	WED
	1320z	22 Aug	437/00	RNGB	THU
7839	1320 - 1323z	18 Jul	437/00 == 000 (Remote Tuner Sweden)	JPL	THU

**M03c** (Stutter groups)  
No reports

**M03d**  
No reports

**M03e**  
No reports

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

From AnonUS we have this comprehensive list of all current known M08a transmissions. The following have been logged over the past two months.

AnonUS reports; *There are only 3 known regular M08a schedules at the moment with the occasional M08a appearing elsewhere.* Great work AnonUS !

**July 2013:**

7554	2000z	01 Jul	Only came up for a few seconds	AnonUS	MON
	2000z	02 Jul		AnonUS	TUE
	2000z	08 Jul	In progress	AnonUS	MON
	2000z	09 Jul	In progress, simultaneous with V02a.	AnonUS	TUE
	2000z	11 Jul	In progress,	AnonUS	THU
	2000z	19 Jul	In progress,	AnonUS	FRI
	2000z	22 Jul	In Progress	AnonUS	MON
	2000z	24 Jul	In Progress	AnonUS	WED
	2000z	29 Jul	In Progress	AnonUS	MON
	2000z	29 Jul	In Progress	AnonUS	TUE
8009	2300z	01 Jul	In progress at 2304z	AnonUS	MON
	2300z	24 Jul	In Progress	AnonUS	WED
	2300z	29 Jul	In Progress	AnonUS	MON
	2300z	29 Jul	In Progress	AnonUS	MON
8096	1400z	01 Jul	Found in progress	AnonUS	MON
	1400z	02 Jul	Found in progress	AnonUS	TUE
	1400z	03 Jul		AnonUS	WED
	1400z	04 Jul	[----- 08411]	AnonUS	THU
	1400z	05 Jul	In progress	AnonUS	FRI
	1400z	08 Jul	In progress [----- 13811]	AnonUS	MON
	1400z	09 Jul	In progress	AnonUS	TUE
	1400z	11 Jul	In progress	AnonUS	THU
	1400z	12 Jul	In progress	AnonUS	FRI
	1400z	18 Jul	[----- -----]	AnonUS	THU
	1400z	19 Jul	In progress	AnonUS	FRI
8097	1400z	29 Jul	In Progress	AnonUS	MON
	1400z	30 Jul	In Progress	AnonUS	TUE
8135	2300z	02 Jul	In progress at 2315z	AnonUS	TUE
	2300z	09 Jul	[74101 -----]	AnonUS	TUE
	2300z	25 Jul	In Progress	AnonUS	THU
	2200z	29 Jul	In Progress	AnonUS	TUE
	2300z	29 Jul	In Progress	AnonUS	TUE
9155	1000z	07 Jul	In progress. HM01 expected in this time slot/frequency combination	AnonUS	THU

**August 2013:**

7554	2000z	05 Aug	In Progress	AnonUS	MON
	2000z	06 Aug	[42521 55852 68271]	AnonUS	TUE
	2000z	06 Aug	[67821 71252 84571]	AnonUS	THU
	2000z	09 Aug	[27501 80881 44852]	AnonUS	FRI
	2000z	13 Aug	[75351 86001 01012]	AnonUS	TUE
	2000z	19 Aug	[77661 88301 02632]	AnonUS	MON
	2000z	20 Aug	[36712 40131 52561]	AnonUS	TUE
	2000z	23 Aug	In progress Started early, already in first message at 2000z	AnonUS	FRI
8009	2300z	05 Aug	In Progress	AnonUS	MON
	2300z	14 Aug	In Progress	AnonUS	WED



8096	1400z	09 Aug	[25662 38082 42321]		AnonUS	FRI
8097	1400z	05 Aug	In Progress		AnonUS	MON
	1400z	06 Aug	In Progress	Very Weak	AnonUS	TUE
	1400z	07 Aug	[----- 45171 58402]	Up Late In Progress	AnonUS	WED
	1400z	08 Aug	[50182 63521 86842]		AnonUS	THU
	1400z	12 Aug	[17222 21541 34872]		AnonUS	MON
	1400z	13 Aug	[68222 72641 85072]		AnonUS	TUE
	1400z	14 Aug	[02172 14511 27832]		AnonUS	WED
	1400z	21 Aug	[25881 38312 42642]		AnonUS	WED
	1400z	22 Aug	[25881 38312 42642]		AnonUS	THU
	1400z	23 Aug	[85052 -----]	Started early, just caught the first call-up at 1400z	AnonUS	FRI
	1400z	25 Aug	[22501 35022 18262]	Call -ups not necessarily in order. Fast Morse as usual in 2300z sched.	Anon	SUN

8135	2300z	06 Aug	[17781 21122 86051]		AnonUS	TUE
	2300z	06 Aug		Too weak to copy	AnonUS	THU
	2300z	13 Aug	[28281 32122 45541]		AnonUS	TUE
	2300z	22 Aug	50182 was the only call-up heard. Expected M08a in this slot.		AnonUS	THU
	2300z	23 Aug	M08a and HM01 mixed together. Fast M08a Morse just audible during pauses in the HM01		AnonUS	FRI

#### M08c

No reports

#### M08d

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.

PoSW sent in a couple of M12 logs and added some interesting comments on the station;

*I took time out from typing this during the evening of Monday 26-August and having a quick tune around discovered that my thoughts that M12 CW might be at a somewhat subdued level may be rather overstated:-*

*1820 UTC, 7931 kHz, M12 calling up with "257 257 257 1", DK/GC "7463 66" x 2 S9+, very strong signal.*

*A few years ago when I took a greater interest in M12 I kept notes of the frequencies used for the various schedules and I see that M12 with call "257" was around in 2009, heard in April of that year, 9176 + 7931 + 6904 kHz, 1840 UTC, 6904 kHz, so the third sending, also S9+.*

*This schedule also ran one hour later but with a different message:-*

*1900 UTC, 9176 kHz, "257 257 257 1", DK/GC "3678 112" x 2, S9+.*

*1920 UTC, 7931 kHz, second sending, S9+.*

*1940 UTC, 6904 kHz, third sending, again S9+.*

Thanks for the observations, PoSW. The 257 ID is certainly one of the most active & long-serving of the M12 IDs, which along with 124 & 463 seem to have formed the main 'core' of the transmissions over the years. Logs of 257 go back to at least 2006, and probably earlier. Whilst the number of transmissions from M12 seem to have been reduced - particularly the early morning scheds, M12 still remains one of the most active of the Morse stations.

#### July 2013:

6857/7557/---	0430/0450/0510z	01 Jul	850 000		HFD	MON
	0430/0450/0510z	08 Jul	850 000		FN	MON
6857	0431z	15 Jul	850 000	No Msg, Fair signal	GN	MON
	0430/0450/0510z	22 Jul	850 000		FN	MON
7984/9184/---	0630/0650/0710z	04 Jul	911 000		FN	THU
	0630/0650/0710z	11 Jul	911 000		FN	THU
	0630/0650/0710z	25 Jul	911 000	Weak signal on 7984kHz	FN	THU
8047/6802/5788	1700/20/40z	03 Jul	463 1 (1859 92) 24939...		FN/HFD	WED
	1700/20/40z	10 Jul	463 1 (8745 94) 10495...		FN/JkC	WED
	1700/20/40z	17 Jul	463 1 (8907 79) 68859...		FN	WED
	1700/20/40z	24 Jul	463 1 (8885 95) 77957...		FN/JkC	WED
9176/7931/6904	1700/20/40z	01 Jul	257 1 (2321 79) 55946...		FN/HFD	MON
	1800/20/40z	01 Jul	257 1 (8172 65) 13842...		FN	MON
	1900/20/40z	01 Jul	257 1 (7252 87) 84657...		FN	MON
	1700/20/40z	04 Jul	257 1 (6381 100) 47423...	QRM from Digital station on 6904kHz	FN	THU
	1900/20/40z	04 Jul	257 1 (5265 68) 91357...		FN	THU
	1700/20/40z	08 Jul	257 1 (6151 74) 33861...		FN	MON
	1800/20/40z	08 Jul	257 1 (2567 62) 94743...		FN	MON
	1900/20/40z	08 Jul	257 1 (1951 86) 28520...		FN	MON
6904	1740z	11 Jul	257 1 (4586 99?) . . . . .	Strong QRM from digital station	FN	THU
	1900/20/40z	11 Jul	257 1 (4778 68) 82575...		FN	THU
	1700/20/40z	15 Jul	257 1 (1389 77) 08597...	QRM from Digital station on 6904kHz	FN	MON
	1800/20/40z	15 Jul	257 1 (9036 58) 88895...	QRM from Digital station on 6904kHz	FN	MON
	1900/20/40z	15 Jul	257 1 (7937 88) 18759...	Bad hiccups during call up	FN	MON
	1700/20/40z	18 Jul	257 1 (5622 50) 99437...		FN	THU
	1900/20/40z	18 Jul	257 1 (6507 42) 67002...		FN	THU

6904	1700/20/40z	22 Jul	257 1 (3344 78)	60834...	QRM from Digital station on 6904kHz	FN/JkC	MON
	1800/20/40z	22 Jul	257 1 (6029 65)	29337...	QRM from Digital station on 6904kHz	FN/JkC	MON
	1900/20/40z	22 Jul	257 1 (1419 118)	63838...		FN/JkC	MON
	1700/20/40z	25 Jul	257 1 (3602 91)	15817...	QRM from Digital station on 6904kHz	FN	THU
	1900/20/40z	25 Jul	257 1 (6639 70)	62854...		FN	THU
9379/7979/6879	2100/20/40z	03 Jul	398 000			FN/HFD	WED
	2100/20/40z	10 Jul	398 1 (2328 73)	07073...		FN	WED
	2100/20/40z	17 Jul	398 000			FN	WED
	2100/20/40z	24 Jul	398 000		(No transmission heard on 9379kHz)	FN	WED
10343/9264/8116	1830/1850/1910z	02 Jul	124 1 (6370 69)	69216 ... 36934	(1836z)	FN/HFC/JkC	TUE
	1700/20/40z	04 Jul	124 1 (6648 78)	85006...		FN	THU
	1800/20/40z	04 Jul	124 1			HFD	THU
	1830/1850/1910z	09 Jul	124 1 (1655 55)	86072...		FN/JkC	TUE
	1700/20/40z	11 Jul	124 1 (2506 80)	72790...		FN/HFD	THU
	1800/20/40z	11 Jul	124 1 (5776 88)	65328...		FN	THU
	1830/1850/1910z	16 Jul	124 1 (1107 69)	03731...		FN	TUE
	1700/20/40z	18 Jul	124 1 (9473 71)	42467...		FN	THU
	1800/20/40z	18 Jul	124 1 (7258 111)	95771...		FN	THU
	1830/1850/1910z	23 Jul	124 1 (2918 66)	58524 ...		FN/JkC	TUE
	1700/20/40z	25 Jul	124 1 (1239 77)	87623...		FN	THU
	1800/20/40z	25 Jul	124 1 (7616 114)	30730...		FN	THU
11435/10598/9327	1600/20/40z	01 Jul	938 1 (439 44)	29013...		FN/HFD	MON
	1830/1850/1910z	03 Jul	938 1 (3827 55)	02076...		FN	WED
	1600/20/40z	08 Jul	938 1 (8498 118)	47063...	Weak sig 11435kHz	FN	MON
	1830/1850/1910z	10 Jul	938 1 (7110 51)	30292...		FN/JkC	WED
	1600/20/40z	15 Jul	938 1 (6701 106)	30650...		FN	MON
	1830/1850/1910z	17 Jul	938 1 (9418 67)	57996...		FN /HFD	WED
	1600/20/40z	22 Jul	938 1 (4591 118)	83464...		FN	MON
	1830/1850/1910z	24 Jul	938 1 (4562 64)	23968...		FN	WED
13926/12126/10926	1310/30/50z	04 Jul	919 000			FN	THU
	1310/30/50z	06 Jul	919 000			JkC	SAT
	1310/30/50z	11 Jul	919 000			HFD	THU
	1310/30/50z	13 Jul	919 000			FN	SAT
	1310/30/50z	18 Jul	919 1 (5086 147)	11934...	Weak signal on 12126kHz	FN	THU
13972/13472/11472	1300/20/40z	01 Jul	944 1 (1779 165)	32505...		FN/HFD	MON
	1300/20/40z	08 Jul	944 1 (7385 137)	42284...		FN/JkC	MON
	1300/20/40z	15 Jul	944 1 (4867 159)	88867...	QRM from M51 on 13472kHz	FN	MON
	1300/20/40z	22 Jul	944 000			FN	MON
14492/13392/11092	1500/20/40z	03 Jul	944 1 (1779 165)	32505...	Repeat of 01 July1300z	FN/HFD	WED
	1500/20/40z	10 Jul	944 1 (7385 137)	42284...	Repeat of 08 July1300z	FN/JkC	WED
	1500/20/40z	17 Jul	944 1 (4867 159)	88867...	Repeat of 15 July1300z	FN	WED
	1500/20/40z	24 Jul	944 000			FN	WED
	1500/20/40z	31 Jul	944 1 (5404 165)	22127 34558...		JkC/RNGB	WED
14869/13569/12179	2110/30/50z	03 Jul	851 1 (3521 139)	39875...		FN	WED
	2110/30/50z	06 Jul	851 1 (3521 139)	39875...	Repeat of 03 July 2110z	FN	SAT
	2110/20/40z	10 Jul	851 1 (547 63)	75315...	Very weak / Weak / Weak sigs	FN	WED
	2110/20/40z	13 Jul	851 1 (568 63)	95313...		FN	SAT
	2110/20/40z	17 Jul	851 1 (9581 89)	51697...		FN	WED
	2110/20/40z	24 Jul	851 1 (3291 121)	59880...	Strong signal	FN	WED

M12	10343kHz/9264kHz/8116kHz	1830z/1850z/1910z	09 July13
124 1 (R2)	1655 55	1655 55	
86072	53354	58855	49433
59255	90575	85942	43479
55391	38683	00500	70869
37023	71133	33350	43415
12112	68299	44740	99185
20439	77277	07215	00929
50245	41080	69114	63753
79209	89364	23768	03560
67726	01286	04931	39813
58481	23855	51223	60969
07830	55067	36554	90255
81796	14742	50671	47698
97483	93977	05420	91073
25847	32186	69777	000 000
Courtesy JkC			

M12	11435/10598/9327kHz	1830z/1850z/1910z	10 July13
938 1 (R2)	7110 51	7110 51	
30292	69318	88338	09708
75135	03586	31895	57804
37420	26121	35437	58679
04338	44315	50344	78768
48430	24126	77350	04229
35927	08346	32280	32175
98698	13361	10923	61305
61619	22910	34196	91483
95105	23084	59373	14357
77213	83998	03577	35524
71339	12954	36776	77419
65214	39330	41895	07081
11485	42016	56495	000 000
Courtesy JkC			

#### August 2013:

5792/6992/---	0430/0450/0510z	05 Aug	796 000		FN	MON
	0430/0450/0510z	19 Aug	796 000		FN	MON
7484/8084/---	0630/0650/0710z	08 Aug	402 000		FN	THU
	0630/0650/0710z	15 Aug	402 000		FN	THU
	0630/0650/0710z	22 Aug	402 000		FN	THU

8047/6802/5788	1700/20/40z	07 Aug	463 1 (2335 100)	28609...		FN	WED
	1700/20/40z	14 Aug	463 1 (5554 100)	80885...		FN	WED
	1700/20/40z	21 Aug	463 1 (1353 94)	03110...		FN/JPL	WED
8123/6923/---	2100/20/40z	07 Aug	198 000			FN	WED
	2100/20/40z	14 Aug	198 000			FN	WED
9176/7931/6904	1800/20/40z	05 Aug	257 1 (4723 63)	94795...		FN	MON
	1900/20/40z	05 Aug	257 1 (4171 115)	34960...		FN	MON
	1700/20/40z	08 Aug	257 1 (4579 98)	26115...	QRM from Digital station on 6904kHz	FN	THU
	1900/20/40z	08 Aug	257 1 (8870 65)	37903...		FN	THU
	1700/20/40z	12 Aug	257 1 (1381 79)	64801...		FN	MON
	1800/20/40z	12 Aug	257 1 (5821 65)	66605...		FN	MON
	1900/20/40z	12 Aug	257 1 (8819 108)	60336...		FN	MON
	1700/20/40z	15 Aug	257 1 (6066 100)	83302...	QRM from Digital station on 6904kHz	FN	THU
	1900/20/40z	15 Aug	257 1 (1240 63)	50291...		FN	THU
	1700/20/40z	19 Aug	257 1 (1567 72)	72466...		FN	MON
	1800/20/40z	19 Aug	257 1 (3845 64)	42780...		FN	MON
	1900/20/40z	19 Aug	257 1 (3373 113)	77030...		FN	MON
	1700/20/40z	22 Aug	257 1 (6564 95)	92052...		FN	THU
	1900/20/40z	22 Aug	257 1 (3801 66)	53091...		FN	THU
	1700/20/40z	26 Aug	257 1 (1346 79)	43780 ... 05628		JkC	MON
	1800/20/40z	26 Aug	257 1 (7463 66)	94401 ... 77964		JkC/PoSW	MON
	1900/20/40z	26 Aug	257 1 (3678 112)	50380 ... 93755		JkC/PoSW	MON
10343/9264/8116	1830/1850/1910z	06 Aug	124 1 (2425 62)	63742...		FN	TUE
	1700/20/40z	08 Aug	124 1 (5203 89)	43976...		FN	THU
	1800/20/40z	08 Aug	124 1 (3613 114)	61592...		FN	THU
	1830/1850/1910z	13 Aug	124 1 (4787 66)	11971...		FN/GD	TUE
	1700/20/40z	15 Aug	124 1 (7685 73)	33931...		FN	THU
	1800/20/40z	15 Aug	124 1 (4979 106)	74861...		FN	THU
	1830/1859/1910z	20 Aug	124 1 (8840 61)	38347...		FN	TUE
	1700/20/40z	22 Aug	124 1 (8131 80)	15074...		FN	THU
	1800/20/40z	22 Aug	124 1 (3820 111)	10499...		FN	THU
	9264/8116 1850/1910z	27 Aug	124 1 (3416 69)	51212 ... 52842		JkC	TUE
11435/10598/9327	1830/1850/1910z	07 Aug	938 1 (2355 63)	77315...		FN	WED
	1600/20/40z	12 Aug	938 1 (1087 115)	23990...		FN	MON
	1830/1850/1910z	14 Aug	938 1 (1996 65)	74741...		FN	WED
	1600/20/40z	19 Aug	938 1 (4233 113)	23606...		FN	MON
	1830/1850/1910z	21 Aug	938 1 (8963 67)	94526...		FN	WED
	9327 1641z	26 Aug	938 1 (3348 110)	49907 ... 05590 (1648z) Strong		JkC	MON
13369/12179/10469	2110/30/50z	07 Aug	314 000...			FN	WED
	2110/30/50z	14 Aug	314 1 (4517 77)	46899...		FN	WED
	2110/30/50z	17 Aug	314 000			FN	SAT
13386/12189/11491	1600/20/40z	01 Aug	725 1 (5003 116)	47686 81802.....	New Sched	RNGB	THU
13918/12218/10818	1500/20/40z	07 Aug	991 1 (2917 219)	31623...	Repeat of 05 Aug 1300z	FN	WED
	1500/20/40z	14 Aug	991 1 (496 81)	73638...	Repeat of 12 Aug 1300z	FN	WED
	1500/20/40z	21 Aug	991 1 (7021 177)	76451...	Repeat of 19 Aug 1300z	FN	WED
14468/13568/12178	1310/30/50z	08 Aug	451 000			FN	THU
	1310/30/50z	15 Aug	451 000			FN	THU
	1310/30/50z	22 Aug	451 1 (260 143)	93293...	Weak sig on 12178kHz	FN	THU
14964/13872/12164	1300/20/40z	05 Aug	991 1 (2917 219)	31623...		FN	MON
	1300/20/40z	12 Aug	991 1 (496 81)	73638...		FN	MON
	1300/20/40z	19 Aug	991 1 (7021 177)	76451...		FN	MON

**M12a** (two message variant)  
No reports

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

#### **July 2013:**

5563	0906z (IP)	20 Jul	(623 15) = In progress	...LG 27199 = (0907z) (Remote Tuner Sweden)	JPL	SAT
5776	1906z (IP)	17 Jul	(112 50) = In progress	...LG 27346 = (1908z) (Remote Tuner Russia)	JPL	WED
6856	1819 - 1827z	09 Jul	163 (534 15) = 37134...	... LG 72910 = Note grps 06 & 08 (See transcript)	JkC/tiNG	THU
	1820 - 1827z	23 Jul	163 (534 15) = 37134 ...	... LG 72910 = Strong	JkC	TUE
7364	1811z (IP)	05 Jul	(005 77) = In progress	... LG 36296 = (1820z) Strong, 16-17wpm	JkC	FRI
9072	1732 - 1744z	15 Jul	975 975 975... " message ended with "T T T T T "	Good signal in Sweden.	LW	MON
9075	1735z (IP)	19 Jul	(213 54) = In progress	...LG 21290 = ( 1742z) (Remote Tuner Russia)	JPL	FRI

10424	1603z (IP) 1600 - 1612z	07 Jul 13 Jul	(342 57) = 49893... 058 (473 51) = 73122...	... LG 32158 = (1612z) ...	(Remote Tuner Russia) (Remote Tuner Finland)	JPL JPL	SUN SAT
10755	1705z (IP) 1703 - 1712z	17 Jul 21 Jul	(763 20) = In progress 975 (408 51) = 4417 .	... LG 90875 = (1707z) = (1712z)	(Remote Tuner Russia) (Remote Tuner Russia)	JPL JPL	WED SUN
10756	1704 - 1712z	15 Jul	975 (862 51) = 11893...	... LG 41886 =	(Remote Tuner Finland)	JPL	MON
18041	0507 - 0520z	25 Jul	952 (730 60) = 40263...	... LG 06870 =		EW	THU

#### August 2013:

6856	1820z 1820 - 1826z	13 Aug 27 Aug	163 (824 15) = 83910... 163 (824 15) = 83910...	...LG 18937 = ...LG 18937 =	GD JkC/RNGB	TUE TUE
7363	1800z	02 Aug	269 00000	MCW	RNGB	FRI

M14	6856kHz	1819z	09 July13
163( R5m)	534	534	15 15 = =
37134	92734	01638	93277 92015
<b>83913</b>	02581	<b>83913</b>	09647 82557
73910	83945	93012	03221 72910
=	=	534	534 15 15 00000
Please draw your attention on groups 6 and 8.....			
Courtesy Jkc & tiNG			

M14	10756kHz	1704z	15 July13
975( R5m)	862	862	51 51 = =
11893	54819	62807	81362 51419
34126	64895	05419	68989 54420
58556	84577	68565	18783 50575
84683	13875	93584	86458 76471
49917	34753	75496	29744 17140
77408	32730	91835	87979 37330
79990	61628	80457	97661 73216
94859	28508	79322	48220 01722
13737	18534	02106	22689 88287
99923	52513	93497	43517 18625
41886	=	862	862 51 51 00000
Courtesy JPL			

M14	6856kHz	1820z	13 Aug 13
163( R5m)	824	824	15 15 = =
83910	03841	00843	73921 72593
30273	48194	34322	83922 79685
72937	83427	93037	82123 18937
=	=		
Courtesy GD			

#### M14 ( Unknown variant)

Richard (RNGB) logged this very unusual M14 transmission on Wed 10 July;

5938	1920z	10 Jul	417 (287 15)	RNGB	WED
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Although the station was expected on this schedule. This station normally sends machine CW with no mistakes. Tonight was hand sent with errors.

417 (R)	287	015	= =
54632	19001	76851	22334 15089
65331	28890	55679	25663 87621
2337*	90076^	11853	98234 55424
287	015		00000
* 4 figure group. Did I miss a number?			
^ Repeat was 9 <b>55</b> 76			
Courtesy RNGB			

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

4503	1908z	18 Jul	[2311 2311 2311 2311 ...etc.]	FN	THU
4503.1	2045z	23 Jul	[0246 0247 (cont).etc.] Fair	JkC	TUE
4505	2147z	20 Jul	[0251...etc] In Progress - sending Time strings (Remote Tuner Sweden)	JPL	SAT

#### M23 O ICW

Jean-Paul (JPL) logged this transmission via Finland using the GlobalTuners online receiver;

10249	1957 -2014z	11 Jul	'747' (R18) Nice strong signal from Finland.	(GlobalTuners Finland)	JPL	THU
10248	1955 - 2015z	12 Jul	'747' (R20) Weak / Fair into S.E. England		BR	FRI
10248	1950-2015z	14 Jul	'222' (R25) Fair into S.E. England. Ended with long dash		BR	SUN

Then a // freq was found today on 7442kHz - very much stronger than 10248kHz into the South of England.

7442//10248	1950-2014z	16 Jul	'222' (R24) V.Strong//Fair into S.E. England. Ended with long dash	BR	TUE
7442//10248	1950-2014z	Daily	'222' (R24)	17 Jul - 22 Jul	BR/JPL

The signal failed to appear from Tue 23 July onwards, but the characteristic 'dash' was still present at H+50. The 'dash' continued to be heard daily well into the next month, ceasing around the middle of August, with no further transmissions from the station being logged.

New member Lennart (LW) reported this early transmission from M23;

9070	0454z (IP)	16 Jul	'666' (R)	Good signal - Ending with long dash	LW	TUE
9071	0504z (IP)	18 Jul	'666' (R)	Good signal - Ending with long dash	LW	THU
9072	0452z (IP)	19 Jul	'111' (R)	Good signal - Ending with long dash	LW	FRI

Lennart's YouTube video of the 19 July transmission can be seen here; <http://youtu.be/v6rHElh6KTc> Good catch Lennart!

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

10423	1805 (IP) - 1816z	09 Aug	(346 96) =	. . . . .	...16232	In progress. Strong	26wpm	JkC	FRI
	1812 (IP) - 1816z	16 Aug	(729 103) =	. . . . .	...67809 56575	In progress		FN	FRI
10463	1830z	10 Jul	980 (371 84) =	58707...	...32706	30wpm		JkC	WED

**M24a** (two message variant)

No reports

**M45/3** XIV MCW, hand (074 sched for May - Aug). Will change to M45/2 sched ID 555 for Sept - Oct

5074//5474	1702 - 1716z	02 Jul	'074' 763 30 = =	84763 ... 28344 = 763 30 000	Weak//Weak	JkC	TUE
	1702 - 1717z	11 Jul	'074' 218 32 = =	43686 ... 98182 = 218 32 000	Weak//Fair	JkC	THU

**M45 5474kHz 1702z 02 July13**

074 (R4) 763 763 30 30 = =

84763 70496 47627 50037 68590  
32690 04027 18939 77513 51906  
39835 44040 01998 06942 51694  
75145 85036 15590 27051 82891  
93769 33277 38217 52220 32827  
17805 38739 32066 60726 28344  
= = 763 763 30 30 000

*Courtesy JkC*

(Same msg as S21 1742z 02 July but with ID 973 )

**M45 5474kHz 1702z 11 July13**

074 (R4) 218 218 32 32 = =

43686 29905 87651 90187 66788  
12796 48621 24650 64894 99372  
62276 94984 79133 95254 46913  
51947 87189 28347 47148 38261  
10382 20692 76721 98930 58271  
93751 62892 95162 75919 96686  
21447 98182  
= 218 32 000

*Courtesy JkC*

(Same msg as S21 1742z 11 July but with ID 973)

5074	1702z	08 Aug	'074' 368 34	Via Utwente SDR	GD	THU
	1702z	20 Aug	'074' 368 34 = 66803 16475 36339.....89471		RNGB	TUE
5474	1702	13 Aug	'074' 368 34		GD	TUE

**M51** XIX

3881//6825	1610z	30 Jul	[NR19 J 30 18:13:19 1985 BT] etc. Blocks of 200 x 5-ltr grps	Weak//Strong	BR	TUE
	1240z	05 Aug	[NR57 A 05 14:41:19 1985 BT] etc. Blocks of 200 x 5-ltr grps	Weak//Good	BR	MON
	1156z	08 Aug	[NR71 A 08 13:59:33 1985 BT] etc. Blocks of 200 x 5-ltr grps	V.weak//Fair	BR	MON

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

3881//6825	1130 - 1210z	05 Aug	Lundi-Lecon	11-1/1 Codé 11-1/2 Clair, 11-1/3 Codé, 11-1/4 Clair (420 grps/hr)	BR	MON
	1130 - 1200z	06 Aug	Mardi-Lecon	12-1/1 Codé 12-1/2 Clair, 12-1/3 Codé, 12-1/4 Clair (600 grps/hr)	BR	TUE
	1130 - 1204z	07 Aug	Mercredi-Lecon	13-1/1 Codé 13-1/2 Clair, 13-1/3 Codé, 13-1/4 Clair (720 grps/hr)	BR	WED
	1130 - 1155z	08 Aug	Jeudi-Lecon	14-1/1 Codé 14-1/2 Clair, 14-1/3 Codé, 14-1/4 Clair (840 grps/hr)	BR	THU
	1130 - 1203z	09 Aug	Vendredi-Lecon	15-1/1 Codé 15-1/2 Clair, 15-1/3 Codé, 15-1/4 Clair (960 grps/hr)	BR	FRI

**M89** O

JPL has written an excellent in-depth report on this station entitled 'M89 or the Communication Network of the Second Artillery Corps / Force' which can be found on page 67 of the ENIGMA 2000 Newsletter 73 (Nov 2012) or now downloadable from the 'Articles' section of the ENIGMA 2000 website.

**Operator Chat from M89**

5555	1650 - 1723z	10 Jul	(In chat) (Remote Hong Kong)	JPL	WED
	EEE N6T3 *7G/T2/CKK 2*EEEE (1650z - Hand sent) EEE EE 37 (1651z) EEE BT BT 37 QR EEEE (1651z) EE C45C.EEEE (1653z) EEE VV BT BT 35 BT BT 5C36N54 AR AR EEE (1654z) EEE 345.. 3 BT *BT 5.T37 QRT 2/CKK CK 129 3. 3N* EEEEE (1655z) EEEE 3 *7G/T2 BT* 5 EEEE AR (1657z) EEE BT BT LCH . 3 BT 5C436N4 EEE (Letters all run together - Silent - 1659z)				
5555	2235 - 2241z	16 Jul	(In chat/tfc) (Remote Finland)	JPL	TUE
	(In chat - 2235z) QSL...34 K SR 7G GA K (2236z) HR 7G GA 7G../CKK CK 30 12 07 17 060 PN 7G/66/CKK CK 30 12 0GE 77 0605 RMK AGN *7G/66/CKK CK 30 12 07 17 0605 RMKS 5.509039 BT* NTDA A4U4 T66N U6N3 N4SD T4UD DTNA TAA6T .. (Cont'd - 2236z) AR (Silent - 2240z)				
5555	1034 - 1106z	25 Jul	(In tfc) (Remote Hong Kong)	JPL	THU
	(In tfc - extremely slow CW - 1034z) 53TN DN74 67UA T54U N3A. 56DA DNT5 7TA4 (Cont'd - 1034z) AR (1035z) BT D4N3 73AD TAU3 (Cont'd - 1035z) AR BT (1045z) BT N6U7 .ND7 3U45 DTUA 43A6 DAT6 (Cont'd - 1045z) (Still in tfc - 1106z)				

5555	1412 - 1455z	26 Jul	(In tfc) (Remote Hong Kong)	JPL	FRI
(In tfc – 1412z) 35AT NU37 4N64 3D7D A7N6 N3TA 6DND (Cont'd – 1412z) III BT NA37 D4TA D7N6 577A UNTU 6UD5 ND46 (Cont'd 1415z) (Sends ? when an error is made) ? AR (Silent - 1419z) R (1420z) BT A375 AR K (1420z) EEE BT 3N6D AR K BT 6ANN AR K QSL ? K (1421z) BT TNDU AR K BT N7TA AR K BT TA6A AR K BT TTU3 AR K R (1423z) BT 53D6 AR K BT 53D6 AR K BT 4DDU AR K (1424z) BT EEE BT 6N6T AR K BT 6DND AR K BT 6DND AR K BT NTDU AR K (1425z) BT ANN3 AR K QSL K (1426z) JN BT W757 AR K (1427z) BT 4757 AR K BT ANUA AR K BT A7A3 AR K (1428z) QSL K Q R BT A7AW ? A7A3 AR K (1428z) BT BT DTT6 AR K (1429z) BT DTT6 AR K BT NUD6 AR K (1430z) BT BT NUD6 AR K AS AS (1431z) K (1433z) R HR 7G GA K R MSG NR 44 CK 299 96 0726 222 EEEEE 7G NR 44 CK 299 96 0726 EEEEE *7G NR 44 CK 299 96 0726 2232 RMKS 3973 TO 0783 K* K (1435z) K R BT BT T3UA 7A36 45UA DA7U AN7T ND7U 4TDN 4N56 TA6A TTUT 7A56 T7D3 (Cont'd – 1436z) III BT 7T64 UD3A N3N7 (Cont'd – 1444z) ? (Silent – 1448z) EEE AR K OK R BT T3UA AR K BT TA6A AR K (1449z) BT TTUT AR K BT DN4U AR K R (1450z) BT D37A 7UDA DT76 TA6A TTUA AR K R BT ..D6 AR K BT 3TA5 AR K BT N6AU AR K BT 55. ? 553N AR K BT DNTN AR K (1452z) R BT 5UUN AR K BT 7ANT AR K BT 5TDU AR K BT BT 7356 AR K (1453z) BT 5D5T AR K BT TN37 AR K BT 5AN3 AR K BT NT76 AR K (1454z) BT TU74 AR K R U7G 99 U EEE U MSG 99W GA K (1455z)					
5555	1212 - 1235z	20 Aug	(In chat/tfc) (Remote Tuner Hong Kong)	JPL	TUE
GA K (1212z) BT ... NDU5 5ATU D3TA TA65 TTTN UDUT UAUN 36N7 3DN3 (Cont'd) AR K (1219z) BT NDU5 AR K BT BT 7UN7 AR K BT BT 7UN7 AR K R BT 6DNA AR K BT 6DNA AR K HR UGA (1220z) R R GA GA (1221z) ... 71W 71W (1225z) R R 82W 82W 82W R R 83W 83W R R 95W 95W K R R *QSL 2026* K (1227z) SK SK HO SK (1227z – Silent)					
5555	0015 - 0032z	24 Aug	(In tfc) (Remote Tuner Hong Kong)	JPL	SAT
(In tfc – 0015Z) 505050 BT 3.457D54A5R 7G CQ GA NR NR RMKS BT BT 55 5050 (0016z - Silent)					
5555	1308 - 1325z	27 Aug	(In tfc) (Remote Tuner Hong Kong)	JPL	TUE
(In tfc – 1308z) 1F/YBS QT AR K (1308z) R U GA AGN GA (1308z) *QSL 2111 K* (1309z HR 7G GA K (1309z) R *7G NR 07 CK 199 28 08 27 2100 RMKS 4694 TO 8367 K* (1310z) BT BT U664 TA3? TA3T T5N4 5TUA 4U5N U6ND 43UT 7AD3 TANDTT3 4377 3TD4 (Cont'd (1312z) AR AR K K (1320z) R R 2P R 36W BT 43UD AR K (1320z) R 35W BT 3NA4 AR K AGN R 45W BT 4D4A AR K R 68W BT NDN3 AR K R .1W BT N7U7 AR KR R 1P AGN R 92 BT TAND AR K (1322z) BT TAND AR K R 9W BT TAND AR K R SK (1323z - Silent)					
6666	0127 - 0137z	11 Jul	(In tfc) (Remote Hong Kong)	JPL	THU
(In tfc – 0127z) 7A56 45UA 35N4 NUTD 7UT5 TU3U N6T3 7AU4 46DT 4TU6 6U37 4A73 346N 73A5 A6N.? N63 U6D3 NUT7 63D4 47D5 U4D6 UA45 746T 4AU6 D6T7 4UD7 7T.3 D 34D6 A6.A? A65T TUN5 TU5.? TU53 7U5A 34NA TA3N AGA (Silent - 0129z) (Very weak station in background – too weak to copy – 0135z)					
6666	1446 - 1500z	11 Jul	(In tfc) (Remote Hong Kong)	JPL	THU
(In tfc – 1446z) NTDU N6U7 A7NA DNU4 4536 6N64 745A III BT BT 5A4U 65DA 3TUA 5A7D 74N5 N6DU 3TN6 DN53 TANA TTA A UN43 7UT5 NDN4 D4UA AT74 U5DT 347U A4D3 745TN A365 D6NA 6N4A DN3A 6TU5 T4N7 U756 6536 6D43 6UT D365 T3NU 765D 6ND5 U67D 3D74 7TU4 A4U7 AU45 UTA5 TA67 43DN U576 4TUN 34NA 35TA 576N 64T3 7U4T T6UD UN3A U5N6 7NU5 7NU3 457U 4N36 537T D6N3 4T7U 635D 3T7U ASU6 TNU7 3NUD U5T4 543D 45TN AU34 7DUT 43D6 3TN6 N375 AN6D N764 35UD AS7T 63U5 7U35 475U T3UA AT76 T66A UN7A T473 TD75 6T74 76T3 UD67 U365 3UAD AUN4 T635 37DT 6N47 5A67 6DSU AN6T 3UA4 3A46 UD34 3UDA III III BT BT A44U 7AA7 6T53 NA4D 6A36 N565 53TA DAAN TANA TTAU 34T3 366N 35UA A6DU AD74 6N56 SDN5 DN4T 355D 76DU 4TU4 U4DU T55U 6N67 A47D UA65 7657 U5U7 U543 6DND 4DD3 4335 5T36 U67T 6AT7 4646 DN73 3U7N N75T T5N4 36TN 4DU6 T74N DAND AN37 566T DU3A 7UDU UNUT U75D 6TU5 TD74 T734 AN67 NAT5 ANDA UDTA 7TT5 NA4T TDA4 63NA A34U 7454 T5DT U47U T4NT DA67 5U43 7UAN N3NA 73A5 566N 7ND4 513T N5U7 UTNT UDND 3AT4 U5D3 A377 D3NT 7TN7 7336 345A 4AUD U5AU U6TA B354 65DT 6DD5 UT67 53T4 N364 37AT 6A6N .443 N7U6 TN34 3D7A AR AR K K K (1454z) R R K R R SK (Silent - 1454z)					
6666	0017 - 0147z	16 Jul	DOM1 (In chat/tfc) (Remote Finland)	JPL	TUE
(In chat – Booming signal - 0017z) RR 1024 W BT DU34 AR K R R PT 9W BT T..4 AR K R RPT 9W BT TAD4 AR K R RPT 10W BT TTAU AR K (0020z) R R HR EEEE HR EGA K R R EE NR EEEE EE *NR 04/EX 0820 RMKS 9019 TO 7719 K* (0021z) R EE NR 04/EX 0820 RMKS 9019 TO 7719 K (0021z) R BT BT AE4SD/P7GN Q AR K (0023z) R BT BT AE4SD/P7GNQ AR K BT BT AE4SD/P7GNQ AR K (0024z) *QSL 0822 K* QSL 0822 K QSL 0822 K U E GA (0025z) RPT NR K NR K (0026z) OK OK *QSL 0824 K* (0027z) VA (Silent - 0027z) VVV VVV VVV (0030z) 8LQ DE DOM1 K VVV VVV VVV *8LQV DE DOM1 K* VVV VVV VVV (Silent - 0031z) VVV VVV VVV (0035z) R BT BT FT0ER/ASK2 EEE AR K (0036z) AGN AGN R UGA (0036z) AGN (0038z) BT FWWW/2.C VFJ K (0039z) OK *QSL 0839 K* (0039z) HR 7G K R 7G *NR 04 CK 115 78 08 1607 30 RMKS 9019 TO 7247 K* (0040z) R BT BT 5A6A 65UD A63T 5ASU 7474 N6D3 3T65 DN4A TATA ? TANA (Cont'd – 0041z) TT3N DTDU U66A 7363 564A U3TN AR AR (0045z) R 1P 1P R R 9W BT BT TANA AR K R 10W TT3D AR K R 17W BT 34.. AR K R R R 10W BT TT3D AR K R 11W BT DD.. AR K R 12W BT .... AR K R U7G GA K (0047z) GA (0048z) 99W (Silent - 0056z) 58W GA BTBT BT BT BT NDD7 EEEEE (0140z) 58W GA BT BT ATDN NN K 58W GA (0141z) VVV 58W GA BT DT BT ATDN NDD7 N74N USD. (Cont'd – 0142z) (Signal fading badly) AR (0144z) 40W BT ..N3 R. 9W BT D7DT D7DT (0145z) R 37W BT 4T.. R 2.W BT BT NATA NATA RI/951 K (Silent - fading badly - 0147z)					
7767	1630 - 1645z	06 Jul	(In tfc) (Remote Tuner Finland)	JPL	SAT
(In tfc – 1630z) 4T34 5UN6 76. D7A. (Cont'd – 1631z) III III BT D6N6 .D5T TANN. T34. 3.U. (Cont'd – 1634z) III III BT ..TU4 U..S 5.A4 UN3T U... (Cont'd – 1638z) (Stopped – 1640z) (Silent)					
9227	1212 - 0159z	22 Aug	(In tfc ) (Remote Tuner California USA)	JPL	THU
(In tfc – 1213z) BT BT AUN7 576D N36. .T4N TA6T U545 UT7T (Cont'd – 1213z) AR AR (1217z) .U GA K (1217z) ..GA K (1217z) GA K (1219z) QSL19 EEE *QSL 1930* K (1228z) R *MSG NR NR 103 CK 191 ..08 22 19.0 RMKS 3079 TO 1714 K* (1229z) R (Signal beginning to fade a bit) BT BT A.DN T6U3 A7.. ND7 NLU57 4AN5 347T 34U5 T5T5 TTTU 4UNT (Cont'd – 1230z) AR AR (1238z) R GA K (1238z) H .. GA K (1238z) HR GA K (1239z) ..EEE *QSL 1845 K* (1245z) *HR MSG NR 104 CK 291 28 08 22 1945 RMKS BT 3079 TO 1714 AR K* (1246z) BT .NN4 5474 ATNA .65A 464U UTA5 NU3T NA..S T5T5 TTT4 (Cont'd 0 1247z) AR AR (1258z) R R R (1259z - Silent)					
9277	0144 - 0219z	27 Aug	(In tfc) (Remote Tuner Hong Kong)	JPL	TUE
(In tfc – 0144z) 463D 7TT5 UDU3 DTUT 35UA 3A4N 6754 (Cont'd – 0145z) ? 3535 5UNU 5N7N 7UD7 DUA4 D7A5 (Cont'd – 0151z) (Sends ? when a mistake is made) AR (0151z) K K K K K (0152z) R AUU. (0154z - Silent)					
11154	1805 - 1833z	14 Jul	A70 (In tfc) (Remote Finland)	JPL	SUN
(In tfc – hand sent – poor signal – horrible CW - 1805z) 554AD UN5 56TT U34T 5.E (1806z) BT 53WU 7A7D 54TT NR R3.? (1807z) 54TT N.44 55.T D.N. (Cont'd) BT BT 5635 4.4U 57U 65UA 7 (Cont'd) BT BT 6445 4T.. (Cont') BT BT N3U5 NTN7 4UT AR//A (1809z) GTTR.T //B (Both stations on this frequency) BT FPT //B RPT //A RPT //B RPT //A (Silent - 1810z) VV BT 5634 A3D6 //A (1811z) RPT//B *7UD DE A70* //A (1812z) QSL ? K //A BT 5334 DUU4 55UN 3U.. 5.U4 7..T 5NAT AVTA //A (1813z) BT BT 7545 6340 400//A 8505505 333U75 ..55U7 N...//A (Cont'd – 1815z) BT 55A BT BT 55.6 .4 BT 5QA BT 57.. A7AI BT 5.U5 7A53 BT 5NAA A4UD AR AR //A (1817z) RPT RPT.. //B U57A ...//A C5GHDE ..SD..//B ...AA.. D AR //A (1819z) CHG ?//B BT 5DA BT BT .DU BT 5GU5 7US.. //A BT BT N3U6 T.5A 4A4. BT 53TT 53U6 455U 7T35 45.6 5733 A.D3 BT 5D.. 4... //A (Cont'd – 1820z) QSL ?//A (1825z) BT 5735 3UAA //A BT BT 5735 5U5. BT IDUNA A.5 BT 5NA3 NU6A BT 6T43 6T BT BT BT 6T33 63.6 BT BT BT 6A3A 537T (1827z) (Very noisy frequency) BT RPT T60 (1829z) BT 5A3N 36AP AR //A (1829z) .. ? QSL ? //A VV KK VV VV VV VV VV VV K..//A VVVVV OK.. .. (1830z) QSL //B R R NIL //A BT BT 6A3A A357 //B (1831z) (Silent – lost remote tuner @ 1833z)					

# M89 Regular Logs

**July 2013** (New pairings marked in **bold type**)

<u>3300//NRH</u>	1128 - 1129z	04 Jul	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	1547 - 1548z	04 Jul	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	2109 - 2110z	04 Jul	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	1506 - 1507z	05 Jul	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	2117 - 2118z	05 Jul	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	1553 - 1554z	06 Jul	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
	1636 - 1637z	07 Jul	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	1243 - 1244z	08 Jul	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1439 - 1440z	08 Jul	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1710 - 1711z	08 Jul	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1602 - 1603z	09 Jul	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1644 - 1645z	10 Jul	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	2116 - 2117z	10 Jul	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	1441 - 1442z	11 Jul	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	1728 - 1729z	13 Jul	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
	1327 - 1328z	15 Jun	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1110 - 1111z	16 Jul	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1343 - 1343z	16 Jul	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1634 - 1635z	17 Jul	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	1215 - 1216z	18 Jul	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	1726 - 1727z	19 Jul	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	1901 - 1902z	20 Jul	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
	1648 - 1649z	21 Jul	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	2006 - 2007z	21 Jul	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	2100 - 2102z	22 Jul	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1855 - 1856z	23 Jul	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1653 - 1654z	24 Jul	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	2010 - 2011z	24 Jul	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	1410 - 1411z	25 Jul	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	1859 - 1900z	25 Jul	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	1412 - 1413z	26 Jul	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	1847 - 1852z	26 Jul	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI

(In tlc - hand sent - 1847z) VEEE 6 Q.3 RMKS 6041 TO 4634/45.1.. C.. AR BT BT 41981/4634/04.0/117NR/6041 AR BT 41981/4/4634/0400/117NR/6041 AR AR  
(Return to R/S - 1850z)

	2125 - 2126z	26 Jul	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	1831 - 1832z	28 Jul	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	2045 - 2046z	29 Jul	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1225 - 1229z	30 Jul	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE

<u>3642//5230</u>	1549 - 1550z	04 Jul	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	THU
	2111 - 2112z	04 Jul	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	THU
(5230 only)	1632 - 1633z	10 Jul	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Russia)	JPL	WED
	1647 - 1648z	10 Jul	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	WED
(5230 only)	2007 - 2007z	10 Jul	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Finland)	JPL	WED
	1726 - 1727z	13 Jul	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	SAT
	1727 - 1728z	19 Jul	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	FRI
(5230 only)	1853 - 1854z	22 Jul	V DKG6 (R3) DE 3A7D (R2) (cont)] Very Weak	JKC	MON
(3642 only)	2055 - 2056z	22 Jul	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	MON
(5230 only)	2116 - 2117z	22 Jul	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	MON
(3642 only)	1859 - 1900z	23 Jul	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	TUE
	1857 - 1858z	25 Jul	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	THU

<u>3642//7602</u>	1510 - 1511z	04 Jul	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	FRI
	1556 - 1557z	06 Jul	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	SAT
(7602 only)	1601 - 1602z	07 Jul	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Russia)	JPL	SUN
	1637 - 1638z	07 Jul	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	SUN
	1647 - 1648z	21 Jul	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	SUN
	2008 - 2009z	21 Jul	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	SUN
	1655 - 1656z	24 Jul	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	WED
	2049 - 2050z	29 Jul	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	MON

<u>3797//4512</u>					
(3797 only)	1126 - 1127z	04 Jul	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	1545 - 1546z	04 Jul	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
(3797 only)	2113 - 2114z	04 Jul	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	1508 - 1509z	05 Jul	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
(4512 only)	1554 - 1555z	06 Jul	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
	1640 - 1641z	07 Jul	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
(4512 only)	1239 - 1240z	08 Jul	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
(4512 only)	1712 - 1713z	08 Jul	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1600 - 1601z	09 Jul	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1645 - 1646z	10 Jul	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	2118 - 2119z	10 Jul	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	1440 - 1441z	11 Jul	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
(4512 only)	1845 - 1846z	13 Jul	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
	1326 - 1327z	15 Jul	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
(4512 only)	1112 - 1113z	16 Jul	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1345 - 1346z	16 Jul	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE



(4512 only)	1125 - 1126z	17 Jul	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	1633 - 1634z	17 Jul	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	1729 - 1730z	19 Jul	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	1650 - 1651z	21 Jul	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	2004 - 2005z	21 Jul	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	2058 - 2059z	22 Jul	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
(4512 only)	1132 - 1133z	23 Jul	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
(4512 only)	1901 - 1902z	23 Jul	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1651 - 1652z	24 Jul	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	1412 - 1413z	25 Jul	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	1901 - 1902z	25 Jul	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	1405 - 1406z	26 Jul	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
(4512 only)	1829 - 1830z	28 Jul	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	2043 - 2044z	29 Jul	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1229 - 1330z	30 Jul	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
<u>4225//5500</u>	1639 - 1640z	07 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	1241 - 1242z	08 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1441 - 1442z	08 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1708 - 1709z	08 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	2327 - 2328z	08 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1058 - 1059z	09 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1558 - 1559z	09 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
(5500 only)	1325 - 1326z	15 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1108 - 1109z	16 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1342 - 1343z	16 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
(5500 only)	1643 - 1644z	21 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
(5500 only)	2002 - 2003z	21 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
(5500 only)	1015 - 1019z	22 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
			(In tfc - 1015z) COMM/....1535/G65/4.19 AR (Return to R/S - 1016z)		
	2056 - 2057z	22 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1102 - 1103z	23 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
(42250 only)	1853 - 1854z	23 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
(5500 only)	1827 - 1828z	28 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	2041 - 2042z	29 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1237 - 1241z	30 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
<u>4474//NRH</u>	1706 - 1707z	08 Jul	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	2315 - 2316z	08 Jul	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	2151 - 2152z	09 Jul	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Russia)	JPL	TUE
<u>4474//10998</u>	2114 - 2115z	10 Jul	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
<u>4860// 6840</u>					
(6840 only)	1920z (IP)	04 Jul	VVV Q2M Q2M Q2M de NYZ NYZ In progress, stops 1925z	FN	THU
	2120 - 2125z	04 Jul	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	THU
	1520 - 1525z	05 Jul	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	FRI
	1720 - 1725z	08 Jul	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	MON
(6840 only)	1620 - 1625z	10 Jul	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Finland)	JPL	WED
	2120 - 2125z	10 Jul	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	WED
	1720 - 1725z	13 Jul	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	SAT
	1320 - 1325z	15 Jul	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	MON
	2220 - 2225z	18 Jul	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	THU
	1720 - 1725z	19 Jul	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	FRI
	1920 - 1925z	20 Jul	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	SAT
	1923z	20 Jul	VVV Q2M Q2M Q2M de NYZ NYZ	FN	SAT
	2020 - 2025z	21 Jul	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	SUN
(6840 only)	1921 - 1922z	23 Jul	VVV (R3) Q2M (R3) DE NYZ (R2) (cont) Fair	JkC	TUE
	2020 - 2025z	23 Jul	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	TUE
	2020 - 2025z	24 Jul	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	WED
	1920 - 1925z	26 Jul	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	FRI
	2120 - 2125z	26 Jul	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	FRI
	2120 - 2125z	29 Jul	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	MON
<u>4886//10998</u>	<b>Note: This is a new frequency for CZT2</b>				
	1955 - 1956z	10 Jul	V RXP7 (x3) DE CZT2(x2) (Cont'd) (Remote Tuner Finland)	JPL	WED
<u>5230//7602</u>					
(7602 only)	1438 - 1439z	08 Jul	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	MON
	1713 - 1714z	08 Jul	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	MON
(7602 only)	1552 - 1553z	09 Jul	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Russia)	JPL	TUE
	1604 - 1605z	09 Jul	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	TUE
	1437 - 1438z	11 Jul	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	THU
(5230 only)	1635 - 1636z	17 Jul	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	WED
	1903 - 1904z	20 Jul	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	SAT
<u>5485//NRH</u>	<b>Note: New frequency for this recent new station/call sign.</b>				
	1712 - 1714z	22 Jul	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote Tuner Russia)	JPL	MON
	1918 - 1920z	22 Jul	V YUQW (R3) DE ASDF(R2) (cont)] Very Weak	JkC	MON
	2103 - 2104z	22 Jul	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote Tuner Russia)	JPL	MON
			<b>Note: Nice strong signal. Suspect this to be replacement for GNXXG which was last heard 30 Jun 13.</b>		
	2012 - 2013z	24 Jul	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED

2253 - 2254z	24 Jul	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
1413 - 1414z	25 Jul	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
1411 - 1412z	26 Jul	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
1845 - 1846z	26 Jul	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
2129 - 2130z	26 Jul	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
1833 - 1834z	28 Jul	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
2046 - 2047z	29 Jul	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON

**5487//NRH** Note: New frequency for this recent new station/call sign. When checked on Hong Kong tuner, was N/H.  
1803 - 1804z 19 Jul V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote Tuner Russia) JPL FRI

5588//NRH	1125 - 1126z	05 Jul	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	0947 - 0948z	07 Jul	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	0936- 0937z	11 Jul	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	1032- 1033z	11 Jul	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	1034- 1035z	12 Jul	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	0949- 0950z	15 Jul	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1118 - 1119z	17 Jul	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	1129 - 1130z	18 Jul	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	1054 - 1055z	20 Jul	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
	1031 - 1032z	22 Jul	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1103 - 1132z	23 Jul	V MW3D (In tfc - probably 2SLC) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE

(In tfc - 1103z) 76TA 73AT D7T7 NNU6 3474 A3AT 5T73 T6.3 NTT5 53A6 DAA5 N53D 64N6 5N.A 6D46 D6N4 .U7U 7NA4 6UD4 AN43 DUTU D6A4 736A UAD3 III BT  
ADNT 743U 545A 7A7T 6375 6UAT TSU7 USA4 TT74 TTT7 U3DT TNSN 6AN3 3.63 637N 3T34 536A U65N 6NNA 4745 474D A3N7 UNAU UNU6 NU4D  
3TND 6ND6 TU7D NAA6 4NT7 65DA 5735 ATA5 .U4 4D7T 5U63 N.36 NDA5 64DT A3AD 535U UDUN AU74 ND7U 353T 4765 6T.4 D43D U4TD 34TD 73T7  
4T6U TA7A 6ADN A647 5475 3TU3 U6DN 6375 3AU7 T76. T576 .D3D UU4D 5D4D 4NN3 TD56 7T73 6TTU NDA3 A754 4D64 TATU 6DAN 5A56 7DD3 67UT 575N  
6T4D 4N5T .543 53A6 7A.N TD47 AN46 A55U 7U3U 4T45 U5T3 U6TA 6NAT AT3U 53DT ADA7 NANU U53ND 7NUN DNUD III BT  
57AN ANDT6 SD7 3UT4 UU4A N46T 76DA ND7U TT74 TTAT 5N.. D7T3 7A3T N4U7 45D3 3573 3N65 45D4 TAU4 4T6. 6AU7 AT4U UN5N 35AT NU34 N465 DT47 357A  
A575 U6D4 3AUD 3465 A766 DTD7 A7DD 6DNA A3TU T6DU 4U34 7537 3DND 76NU 4AA6 6D35 NU3U .5N5 NANU 347D UADU AU.3 U4D3 AT6D T764 AU46 T7A3  
N4AU 35.D TUA4 4D3N D5A3 6TUA 3D65 5ND. TA66 6N56 4UT5 U4.6 5T.N TN7A 6TA4 7AT7 ATU7 3UD3 5NND 3D3D U4.. D7AN 7.66 43T4 A4TT NU4D 4T65  
AT57 57TD TUTA D56. 46TD 6U33 73T6 3U36 AN73 N5N7 .56N 64TU DN63 NA4T 736U 6753 67TT UT6N  
III BT \*6TUT\* AR (1119z) \*MSG NR 89 CK 301 34 0723 1900 BT\* U37T AUD7 AN34 N4AT AT.N 7A. 4AD5 TAN7 TTT74 TTTN NTDU (Cont'd - 1120z)  
(Sending much faster now) III BT 6TUT AR (Silent - 1130z)

1026 - 1027z	25 Jul	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
0945 - 0946z	26 Jul	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI

5801//10180 (5801 only)	1237 - 1238z	08 Jul	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	MON
(10180 only)	1031 - 1032z	18 Jul	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	THU
	1217 - 1218z	18 Jul	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	THU
(10180 only)	0943 - 0944z	26 Jul	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	FRI
	1407 - 1408z	26 Jul	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	FRI
	2127 - 2128z	26 Jul	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	FRI
	1231 - 1232z	30 Jul	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	TUE

6773//8040 (8040 only)	0945 - 0946z	07 Jul	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
(8040 only)	1016 - 1017z	11 Jul	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
(8040 only)	0947 - 0948z	15 Jul	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	2337 - 2338z	17 Jul	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	1127 - 1128z	18 Jul	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	2227 - 2228z	18 Jul	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	1058 - 1059z	20 Jul	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
(6773 only)	1029 - 1030z	22 Jul	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
(6773 only)	0941 - 0942z	26 Jul	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI

6840//10640	1120 - 1125z	04 Jul	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	THU
	2320 - 2325z	08 Jul	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	MON
	0120 - 0125z	11 Jul	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	THU
	1120 - 1125z	11 Jul	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	THU
	1020 - 1725z	15 Jul	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	MON
	0620 - 0625z	16 Jul	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	TUE
	0320 - 0325z	17 Jul	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	WED
	1020 - 1025z	17 Jul	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	WED
	1020 - 1025z	18 Jul	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	THU
	1220 - 1225z	18 Jul	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	THU
	1020 - 1025z	22 Jul	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	MON
	0020 - 0025z	25 Jul	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	THU
	1020 - 1025z	25 Jul	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	THU
	1220 - 1225z	30 Jul	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	TUE

7582//8110 (8110 only)	0204 - 0205z	15 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
(8110 only)	0943 - 0944z	15 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	0011 - 0012z	16 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	0611 - 0612z	16 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE

7607//NRH

8580//NRH	1856z	20 Jul	V YUQW YUQW YUQW de ASDF ASDF	FN	SAT
	1948 - 1949z	23 Jul	V YUQW (R3) DE ASDF (R2) (cont) Fair	JkC	TUE

8581//NRH	Note: New frequency for this recent new station/call sign. N/H using Hong Kong remote tuner.				
	1653 - 1654z	21 Jul	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote Tuner Russia)	JPL	SUN
	2012 - 2013z	21 Jul	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote Tuner Sweden)	JPL	SUN

**8582//NRH**

Note: New frequency for this recent new station/call sign. Note: N/H on Hong Kong remote tuner in spite of strong signal on Russian tuner

1705 - 1706z	20 Jul	V YUQW (x3) DE ASDF (x2)	(Cont'd) (Remote Tuner Russia)	JPL	SAT
1915 - 1927z	20 Jul	V YUQW (x3) DE ASDF (x2)	(Cont'd) (Remote Tuner Russia)	JPL	SAT
1319 - 1320z	23 Jul	V YUQW (x3) DE ASDF (x2)	(Cont'd) (Remote Tuner Russia)	JPL	TUE
2025 - 2026z	23 Jul	V YUQW (x3) DE ASDF (x2)	(Cont'd) (Remote Tuner Russia)	JPL	TUE

**8750//NRH**

Note: New call sign and frequency! Often a very strong broadcast station on frequency makes copy difficult on Hong Kong remote tuner. Since GNXG has not been heard since 30 Jun 13, suspect that this may be a new call sign and frequency for GNXG.

2316 - 2318z	08 Jul	V YUQW (x3) DE ASDF (x2)	(Cont'd) (Remote Tuner Russia)	JPL	MON
0125 - 0126z	11 Jul	V YUQW (x3) DE ASDF (x2)	(Cont'd) (Remote Tuner Hong Kong)	JPL	THU
0933 - 0934z	11 Jul	V YUQW (x3) DE ASDF (x2)	(Cont'd) (Remote Tuner Hong Kong)	JPL	THU
0140 - 0141z	12 Jul	V YUQW (x3) DE ASDF (x2)	(Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
0834 - 0838z	12 Jul	V YUQW (x3) DE ASDF (x2)	(Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
0945 - 0946z	15 Jul	V YUQW (x3) DE ASDF (x2)	(Cont'd) (Remote Tuner Hong Kong)	JPL	MON
1014 - 1015z	17 Jul	V YUQW (x3) DE ASDF (x2)	(Cont'd) (Remote Tuner Hong Kong)	JPL	WED
2335 - 2336z	17 Jul	V YUQW (x3) DE ASDF (x2)	(Cont'd) (Remote Tuner Hong Kong)	JPL	WED
1025 - 1026z	18 Jul	V YUQW (x3) DE ASDF (x2)	(Cont'd) (Remote Tuner Hong Kong)	JPL	THU
0025 - 0026z	25 Jul	V YUQW (x3) DE ASDF (x2)	(Cont'd) (Remote Tuner Russia)	JPL	THU

**8789//NRH**

Note: Yet another new set of call signs using a GXNG frequency! 8789 was checked around 0930z and this station was not active at that time. Same comparable signal strength as GNXG. Went off the air at approximately 1028z. Checked other GNXG frequencies, but N/H.

1019 - 1020z	11 Jul	V AUTV (x3) DE 5CFG (x2)	(Cont'd) (Remote Tuner Hong Kong)	JPL	THU
0028 - 0029z	29 Jul	V WITN (x3) DE GNXG (x2)	(Cont'd) (Remote Tuner Western Siberia)	JPL	SUN

(Into tlc - 1238z) VVV UGT COMM BT. 536/2105/ZM EEE VVV UGT COMM BT 7536/2105/Z25/4314 AT (Return to R/S - 1239z)

**10180//NRH**

1226 - 1227z	04 Jul	V DKG6 (x3) DE 3A7D (x2)	(Cont'd) (Remote Finland)	JPL	THU
0118 - 0119z	11 Jul	V DKG6 (x3) DE 3A7D (x2)	(Cont'd) (Remote Hong Kong)	JPL	THU
1028 - 1029z	11 Jul	V DKG6 (x3) DE 3A7D (x2)	(Cont'd) (Remote Hong Kong)	JPL	THU
1059 - 1100z	23 Jul	V DKG6 (x3) DE 3A7D (x2)	(Cont'd) (Remote Hong Kong)	JPL	TUE
1332 - 1333z	23 Jul	V DKG6 (x3) DE 3A7D (x2)	(Cont'd) (Remote Russia)	JPL	TUE
1030 - 1031z	25 Jul	V DKG6 (x3) DE 3A7D (x2)	(Cont'd) (Remote Hong Kong)	JPL	THU

**10998//NRH**

1543 - 1544z	04 Jul	V RXP7 (x3) DE CZT2 (x2)	(Cont'd) (Remote Tuner Hong Kong)	JPL	THU
1611 - 1612z	10 Jul	V RXP7 (x3) DE CZT2 (x2)	(Cont'd) (Remote Tuner Finland)	JPL	WED
1817z	10 Jul	V RXP7 (R3) DE CZT2 (R2)	(Cont.) Fair	JkC	WED
0115 - 0116z	11 Jul	V RXP7 (x3) DE CZT2 (x2)	(Cont'd) (Remote Tuner Hong Kong)	JPL	THU
0157 - 0158z	11 Jul	V RXP7 (x3) DE CZT2 (x2)	(Cont'd) (Remote Tuner Russia)	JPL	THU
1439 - 1440z	11 Jul	V RXP7 (x3) DE CZT2 (x2)	(Cont'd) (Remote Tuner Hong Kong)	JPL	THU
1505 - 1506z	12 Jul	V RXP7 (x3) DE CZT2 (x2)	(Cont'd) (Remote Tuner Finland)	JPL	FRI
1712 - 1713z	13 Jul	V RXP7 (x3) DE CZT2 (x2)	(Cont'd) (Remote Tuner Russia)	JPL	SAT
1804 - 1805z	14 Jul	V RXP7 (x3) DE CZT2 (x2)	(Cont'd) (Remote Tuner Finland)	JPL	SUN
0202 - 0203z	15 Jul	V RXP7 (x3) DE CZT2 (x2)	(Cont'd) (Remote Tuner Hong Kong)	JPL	MON
1045 - 1046z	15 Jul	V RXP7 (x3) DE CZT2 (x2)	(Cont'd) (Remote Tuner Hong Kong)	JPL	MON
1318 - 1319z	15 Jul	V RXP7 (x3) DE CZT2 (x2)	(Cont'd) (Remote Tuner Hong Kong)	JPL	MON
0009 - 0010z	16 Jul	V RXP7 (x3) DE CZT2 (x2)	(Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
1344 - 1345z	16 Jul	V RXP7 (x3) DE CZT2 (x2)	(Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
1632 - 1633z	17 Jul	V RXP7 (x3) DE CZT2 (x2)	(Cont'd) (Remote Tuner Hong Kong)	JPL	WED
2333 - 2334z	17 Jul	V RXP7 (x3) DE CZT2 (x2)	(Cont'd) (Remote Tuner Hong Kong)	JPL	WED
1216 - 1217z	18 Jul	V RXP7 (x3) DE CZT2 (x2)	(Cont'd) (Remote Tuner Hong Kong)	JPL	THU
2218 - 2219z	18 Jul	V RXP7 (x3) DE CZT2 (x2)	(Cont'd) (Remote Tuner Hong Kong)	JPL	THU
1725 - 1726z	19 Jul	V RXP7 (x3) DE CZT2 (x2)	(Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
1641 - 1642z	21 Jul	V RXP7 (x3) DE CZT2 (x2)	(Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
2000 - 2001z	21 Jul	V RXP7 (x3) DE CZT2 (x2)	(Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
1706 - 1707z	22 Jul	V RXP7 (x3) DE CZT2 (x2)	(Cont'd) (Remote Tuner Russia)	JPL	MON
2053 - 2054z	22 Jul	V RXP7 (x3) DE CZT2 (x2)	(Cont'd) (Remote Tuner Russia)	JPL	MON
1335 - 1336z	23 Jul	V RXP7 (x3) DE CZT2 (x2)	(Cont'd) (Remote Tuner Russia)	JPL	TUE
1851 - 1852z	23 Jul	V RXP7 (x3) DE CZT2 (x2)	(Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
1649 - 1650z	24 Jul	V RXP7 (x3) DE CZT2 (x2)	(Cont'd) (Remote Tuner Hong Kong)	JPL	WED
1905 - 1906z	25 Jul	V RXP7 (x3) DE CZT2 (x2)	(Cont'd) (Remote Tuner Russia)	JPL	THU

**August 2013** (New pairings marked in **bold** type)**3300//NRH**

1629 - 1630z	09 Aug	V MW3D (x3) DE 2SLC (x2)	(Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
1826 - 1827z	09 Aug	V MW3D (x3) DE 2SLC (x2)	(Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
1629 - 1630z	10 Aug	V MW3D (x3) DE 2SLC (x2)	(Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
1928 - 1929z	10 Aug	V MW3D (x3) DE 2SLC (x2)	(Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
1617 - 1618z	11 Aug	V MW3D (x3) DE 2SLC (x2)	(Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
1930 - 1931z	11 Aug	V MW3D (x3) DE 2SLC (x2)	(Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
2210 - 2211z	11 Aug	V MW3D (x3) DE 2SLC (x2)	(Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
1418 - 1419z	12 Aug	V MW3D (x3) DE 2SLC (x2)	(Cont'd) (Remote Tuner Hong Kong)	JPL	MON
1830 - 1831z	12 Aug	V MW3D (x3) DE 2SLC (x2)	(Cont'd) (Remote Tuner Hong Kong)	JPL	MON
1059 - 1101z	16 Aug	V MW3D (x3) DE 2SLC (x2)	(Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
1252 - 1253z	16 Aug	V MW3D (x3) DE 2SLC (x2)	(Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
1153 - 1154z	20 Aug	V MW3D (x3) DE 2SLC (x2)	(Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
1912 - 1913z	20 Aug	V MW3D (x3) DE 2SLC (x2)	(Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
2101 - 2102z	20 Aug	V MW3D (x3) DE 2SLC (x2)	(Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
1826 - 1827z	21 Aug	V MW3D (x3) DE 2SLC (x2)	(Cont'd) (Remote Tuner Hong Kong)	JPL	WED
2112 - 2113z	21 Aug	V MW3D (x3) DE 2SLC (x2)	(Cont'd) (Remote Tuner Hong Kong)	JPL	WED

1712 - 1728z	22 Aug	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU	
(In tfc - 1712z) BT 4D66 AR (1713z) VVV *7G .86 CK 3.. 24 08 23 0.00 BT* D... 74N6 NUN6 D75T 6T46 (Cont'd - 1714z) III BT UTA6 634T N357 D3.4 (Cont'd - 1722z) III BT (Missed end - Return to R/S - 1727z)					
2002 - 2003z	22 Aug	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU	
1145 - 1148z	23 Aug	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI	
1551 - 1552z	23 Aug	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI	
1914 - 1915z	23 Aug	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI	
1209 - 1210z	24 Aug	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT	
1639 - 1658z	24 Aug	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT	
(In tfc - 1639z) A653 DU7U 4A34 4DA6 (Cont'd) III BT .... AR (1643z) *MSG NR 094 CK 301 34 08 25 0030 BT* 4UNU ..UT ..... UD7A 755U 45D5 AD76 TTT74 (Cont'd - 1644z) III BT .... AR (1657z - Return to R/S)					
2106 - 2107z	24 Aug	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT	
1544 - 1545z	25 Aug	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN	
1732 - 1733z	25 Aug	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN	
1301 - 1303z	27 Aug	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE	
(In tfc - hand sent - 1301z)/2..R23\NR/305/C0364 OB/0276/2130/237./3056 AR AR (Return to R/S - 1302z)					
1530 - 1531z	27 Aug	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE	
2029 - 2030z	27 Aug	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE	
<u>3642//5230</u>	1828 - 1829z	12 Aug	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	MON
	1825 - 1826z	21 Aug	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	WED
(3642 only)	2118 - 2119z	21 Aug	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	WED
(5230only)	1659 - 1700z	24 Aug	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	SAT
(3642 only)	2108 - 2109z	24 Aug	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	SAT
<u>3642//7602</u>	1633 - 1634z	09 Aug	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	FRI
(7602 only)	1516 - 1517z	10 Aug	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Russia)	JPL	SAT
(3642 only)	1627 - 1628z	10 Aug	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	SAT
(3642 only)	1619 - 1620z	11 Aug	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	SUN
(3642 only)	1928 - 1929z	11 Aug	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	SUN
(3642 only)	2208 - 2209z	11 Aug	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	SUN
	1626 - 1627z	17 Aug	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	SAT
	1913 - 1914z	20 Aug	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	TUE
	2102 - 2103z	20 Aug	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	TUE
	1711 - 1712z	22 Aug	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	THU
	2004 - 2005z	22 Aug	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	THU
	1553 - 1554z	23 Aug	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	FRI
	1916 - 1917z	23 Aug	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	FRI
(7602 only)	1545 - 1546z	25 Aug	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	SUN
(7602 only)	1734 - 1735z	25 Aug	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	SUN
(7602 only)	2207 - 2208z	25 Aug	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	SUN
	2031 - 2032z	27 Aug	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	TUE
(7602 only)	2231 - 2232z	27 Aug	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	TUE
<u>3797//4512</u>	1627 - 1628z	09 Aug	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
(3797 only)	1828 - 1829z	09 Aug	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
(3797 only)	1628 - 1629z	10 Aug	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
	1615 - 1616z	11 Aug	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	1419 - 1420z	12 Aug	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1832 - 1833z	12 Aug	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1042 - 1043z	16 Aug	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	1255 - 1256z	16 Aug	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	1633 - 1634z	17 Aug	V H2FL (x3) DE DRV8 (x2)(Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
	1151 - 1152z	20 Aug	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1910 - 1911z	20 Aug	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	2105 - 2106z	20 Aug	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1827 - 1828z	21 Aug	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	2113 - 2114z	21 Aug	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
(3797 only)	1709 - 1710z	22 Aug	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	2000 - 2001z	22 Aug	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	1152 - 1153z	23 Aug	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	1549 - 1550z	23 Aug	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	1915 - 1916z	23 Aug	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	1542 - 1543z	25 Aug	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	1731 - 1732z	25 Aug	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	1259 - 1300z	27 Aug	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1528 - 1529z	27 Aug	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	2028 - 2029z	27 Aug	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
<u>4225//5500</u>	1931 - 1932z	11 Aug	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
(5500 only)	2206 - 2207z	11 Aug	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	1414 - 1415z	12 Aug	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1834 - 1835z	12 Aug	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1011 - 1012z	19 Aug	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	2015 - 2016z	19 Aug	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1142 - 1149z	20 Aug	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE

VVV UGT COMM BT 3066/2015/Z03/9549 AR (1142z) (x3) (Return to R/S - 1143z)



1540 - 1541z	25 Aug	V 7NPE (x3) DE QV5B (x2)(Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
1730 - 1731z	25 Aug	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
2204 - 2205z	25 Aug	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
1013 - 1033z	27 Aug	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE

(In tlc – hand sent)	UGT COMM 2492/0505/Z04/1851 AR	VV TC1 BT UGT COMM 2492/0505/Z04/1851 AR		
	VV TC2 BT MSG NR 08/CKK 25 37 0827	VVV TC2 MSG NR 08/CKK 25 37 0827 AR		
	VV TC3 BT UGT COMM 26.5/..35/G34/1851 AR	VV TC3 BT UGT COMM 2605/1035/G34/1851 AR		
	VV TC4 BT UGT GOMA 2069/13.0/G33/1852 AR	VV TC4 BT UGT COMM 2069/1300/G34/1852 AR		
	VV TC5 BT UGT COMM 2060/1.25/G36/1850 AR	VV TC5 BT UGT COMM 2060/111./G36/1851 AR		
	VV TC6 UGT COMM BT 2474/1615/31/1851 AR	VV TC6 UGT COMM BT 2474/1615/31/1851 AR (1022z)		(Return to R/S – 1024z)
	VV UGT COMM BT 3486/1855/Z04/9549 AR (1028z)	VV UGT COMM BT 3486/1855/Z04/9549 AR (1029z)		(Return to R/S – 1029z)

	1257 - 1258z	27 Aug	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1526 - 1527z	27 Aug	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
(4225 only)	2026 - 2027z	27 Aug	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
(4225 only)	2229 - 2230z	27 Aug	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE

<u>4474//NRH</u>	1925 - 1926z	11 Aug	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	2204 - 2205z	11 Aug	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	1943 - 1944z	20 Aug	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Finland)	JPL	TUE
	1828 - 1829z	21 Aug	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED

<u>4474//10998</u>	2106 - 2107z	20 Aug	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1706 - 1707z	22 Aug	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	1958 - 1959z	22 Aug	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	2102 - 2103z	24 Aug	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT

<u>4860// 6840</u>	1920 - 1925z	05 Aug	VVV Q2M Q2M Q2M de NYZ NYZFN (Cont'd)	FN	MON
	1820 - 1825z	09 Aug	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	FRI
	1620 - 1625z	10 Aug	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	SAT
	1920 - 1925z	10 Aug	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	SAT
	1620 - 1625z	11 Aug	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	SUN
	2220 - 2225z	11 Aug	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	SUN
	1420 - 1425z	12 Aug	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	MON
	1820 - 1825z	12 Aug	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	MON
	1620 - 1625z	17 Aug	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	SAT
	2020 - 2025z	19 Aug	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	MON
	1920 - 1925z	20 Aug	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	TUE
	1820 - 1825z	21 Aug	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	WED
	2120 - 2125z	21 Aug	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	WED
	1720 - 1725z	22 Aug	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	THU
	1920 - 1925z	23 Aug	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	FRI
	2220 - 2225z	25 Aug	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Finland)	JPL	SUN
	1520 - 1525z	27 Aug	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	TUE
	2020 - 2025z	27 Aug	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	TUE

<u>5485//NRH</u>	1631 - 1632z	09 Aug	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	1825 - 1826z	09 Aug	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	1631 - 1632z	10 Aug	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
	1927 - 1928z	10 Aug	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
	1625 - 1626z	11 Aug	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	1926 - 1927z	11 Aug	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	2212 - 2213z	11 Aug	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	1416 - 1417z	12 Aug	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1825 - 1826z	12 Aug	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1102 - 1103z	16 Aug	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	1250 - 1251z	16 Aug	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	1631 - 1632z	17 Aug	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
	2025 - 2026z	19 Aug	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1156 - 1204z	20 Aug	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE

VVV VVV (1159z) HR SVC GA NR 119 2000 RMKS 7310 TO 4845/4750 BT COMM/2045/LZ081AO/7319/4845 AR AGN (Repeats msg) QSL ? HR WK NR 17 (Returns to R/S - 1201z)

Note: I believe this is the first message copied from ASDF. The format of this SVC COMM message matches that of GNXXG which is now silent.  
As previously stated, I believe that ASDF is a change in both call sign/frequencies for GNXXG.

1915 - 1916z	20 Aug	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
2100 - 2101z	20 Aug	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
1830 - 1831z	21 Aug	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
2111 - 2112z	21 Aug	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
1716 - 1717z	22 Aug	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
2006 - 2007z	22 Aug	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
1148 - 1149z	23 Aug	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
1555 - 1556z	23 Aug	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
1913 - 1914z	23 Aug	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
1212 - 1213z	24 Aug	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
1658 - 1659z	24 Aug	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
2110 - 2111z	24 Aug	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
1546 - 1547z	25 Aug	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
1733 - 1734z	25 Aug	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
2208 - 2209z	25 Aug	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
1306 - 1307z	27 Aug	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
1533 - 1534z	27 Aug	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
2032 - 2033z	27 Aug	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
2232 - 2233z	27 Aug	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE

<u>5588//NRH</u>	1046 - 1059z	16 Aug	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	1629 - 1630z	17 Aug	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
	1018 - 1019z	19 Aug	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	2019 - 2020z	19 Aug	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	0900 - 0901z	21 Aug	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	1007 - 1008z	27 Aug	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
<u>5801//10180</u> (10180 only)	1408 - 1409z	12 Aug	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Finland)	JPL	MON
	1412 - 1412z	12 Aug	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	MON
(10180 only)	1044 - 1045z	16 Aug	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	FRI
	1254 - 1255z	16 Aug	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	FRI
	1154 - 1155z	20 Aug	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	TUE
	1154 - 1155z	23 Aug	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	FRI
	1211 - 1212z	24 Aug	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	SAT
(10180 only)	1009 - 1010z	27 Aug	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	TUE
	1304 - 1305z	27 Aug	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	TUE
	1532 - 1533z	27 Aug	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	TUE
<u>6773//8040</u> (6773 only)	1016 - 1017z	19 Aug	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	2017 - 1018z	19 Aug	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
(8040 only)	0728 - 0729z	24 Aug	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
	1005 - 1006z	27 Aug	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
<u>6840//10640</u>	1120 - 1125z	16 Aug	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	FRI
	0320 - 0325z	19 Aug	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	MON
	1020 - 1025z	19 Aug	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	MON
	0720 - 0725z	20 Aug	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	TUE
	0720 - 0725z	24 Aug	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	SAT
	2120 - 2125z	24 Aug	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	SAT
	0220 - 0225z	27 Aug	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	TUE
<u>7582//8110</u>	0247 - 0248z	19 Aug	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	0157 - 0158z	20 Aug	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	0727 - 0728z	20 Aug	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	0138 - 0139z	27 Aug	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1003 - 1004z	27 Aug	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
<u>7607//NRH</u>	1727 - 1728z	19 Aug	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Russia)	JPL	MON
	2026 - 2027z	19 Aug	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (/N/H) (Mon) (Remote Hong Kong)	JPL	MON
<u>8750//NRH</u>	0731 - 0732z	20 Aug	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	0902 - 0903z	21 Aug	V YUQW (x3) DE ASDF (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
<u>10180//NRH</u>	0303 - 0304z	17 Aug	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Russia)	JPL	SAT
	1019 - 1020z	19 Aug	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	MON
<u>10998//NRH</u>	1404 - 1412z	09 Aug	(In tfc) (Probably CZT2) (Remote Tuner Russia)	JPL	FRI
	(In tfc - 1404z)		III BT 6NU5 434D 373N TA47 (Cont'd - 1419z)		Silent - 1428z)
	1514 - 1515z	10 Aug	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Russia)	JPL	SAT
	1625 - 1626z	10 Aug	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
	1925 - 1926z	10 Aug	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
	2355 - 2356z	10 Aug	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
	1410 - 1411z	12 Aug	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Finland)	JPL	MON
	1512 - 1513z	20 Aug	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Finland)	JPL	TUE
	1907 - 1908z	20 Aug	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1547 - 1548z	23 Aug	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	1917 - 1918z	23 Aug	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	1206 - 1207z	24 Aug	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
	1637 - 1638z	24 Aug	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
	1255 - 1256z	27 Aug	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1525 - 1526z	27 Aug	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	2025 - 2026z	27 Aug	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	2227 - 2228z	27 Aug	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE

**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. Reception in S.E. England is still quite variable.

<b><u>CORRECTION:</u> The details of the June logging of M97 was inadvertently reported as a May log in the last Newsletter. The correct log is shown below;</b>					
Nothing more was heard in May & as June progressed we were resigned to not hearing anything from the station during the month. Then on <b>25 June...</b>					
10375	1455 - 1520z	<b>25 Jun</b>	SD81 SN70	BR	TUE

Back up to date with the latest logs, 09 July gave us a new msg with the serial of SD88. As the last heard msg was 81, we thought we must have either missed a lot of msgs or M97 have jumped forward in their numbering. We decided on the latter, since we didn't feel that seven msgs could have been sent (and missed by us), in that short period, even bearing in mind that we rely on the Hong Kong online receiver for reception this time of year, which is not always available.

10375	1455 - 1512z	09 Jul	SD88 SN45	New msg	BR	TUE
	1454 - 1512z	15 Jul	SD88 SN45	(GlobalTuners Hong Kong)	BR/JPL	MON

The belief that the serial numbers were out of sequence was proved correct when a new msg was sent on 17 July - but with a serial number of 83.

10375	1454 - 1512z	17 Jul	SD83 SN40	New Msg (Note: Serial out of sequence!)	BR/T!	WED
			So Dien & So Nhom used in full & some odd format changes. Notes & Transcription below.			
	1454 - 1512z	31 Jul	SD83 SN40	Same odd format used as 17 Jul	BR	WED

Token (T!) remarked on the variations in the msg format with this latest msg. He writes;

Not only were So Dien and So Nhom spelled out, but also a DK preceded the HT's, and the AAAAA's were not at the beginning, but rather just before the coded traffic started. It also included colons after the DK, So Dien & So Nhom.

The DK has been used that way before, but not that I remember with a colon. And I do not remember a jump in the serials in the past. Every message I remember in the past started with the AAAA's (27 of them most often), as the first thing sent.

Although this station often has small variations in its format, the combination of all these things is something I have not seen from this station before. If it happened in the past, I missed it..

As normal all 3 messages starting at 1454:35 UTC on July 17, 2013, were the same, however odd they may have been. Note that the time is getting earlier and earlier, last year when it got to about 1454:00 they shifted it about 10 minutes later in time, so that it was about 1505 start time. (See transcripts below for the format changes noted by T!)

10375	1454 - 1517z	09 Aug	SD84 SN58	Same format as used in last msg	BR	FRI
	1454 - 1517z	13 Aug	SD84 SN58	(Fair sig via GlobalTuners Sydney)	BR	TUE
	1454 - 1517z	27 Aug	SD84 SN58	(Strong sig via GlobalTuners Hong Kong)	BR	TUE
	1454 - 1517z	28 Aug	SD84 SN58	(Fair sig via GlobalTuners Sydney)	BR	WED

Now we have had a couple more msgs, Brian (BR) is convinced that the msg No.88 sent out of sequence was actually a numbering error & should have been msg 82. This would make the sequence correct. We will know definitely when we reach msg 88.

```

AAAAAAAAAAAAAAAAAAAAAAAAAAAA
SD88 SD88 SD88 HT HT HT
SN45 SN45 SN45

71798 15466 09504 46506 61923
55984 24769 63488 22012 57284
82155 40670 45045 18014 04519
46861 16463 84037 42349 31060
85271 80387 17254 28506 55504
39858 80726 04923 27927 75886
25628 65616 94516 91534 63764
41699 59235 27947 74558 38061
32171 25262 33170 12615 03215

KKKKKKKKKKKKKKKKKKKKKKKK
      Courtesy BR

```

```

SO DIEN:83 SO DIEN :83 SO DIEN:83
DK: HT HT HT
SO NHOM:40 SO NHOM:40 SO NHOM :40
AAAAAAAAAAAAAAAAAAAAAAAAAAAA

55276 65960 55213 17964 55315
33456 64906 42458 99262 44120
90933 58751 99465 20981 95960
40647 52991 57422 87832 10261
75486 09849 78146 68022 73405
14555 25990 96287 17311 13452
84497 50466 03952 07308 32602
99301 59991 39631 54165 77825

KKKKKKKKKKKKKKKKKKKKKKKK
      Courtesy T!

```

```

SO DIEN:84 SO DIEN :84 SO DIEN:84
DK: HT HT HT
SO NHOM:58 SO NHOM:58 SO NHOM :58
AAAAAAAAAAAAAAAAAAAAAAAAAAAA

99324 20677 08739 99636 96965
54484 33165 73144 79429 78620
39915 66546 27757 78700 97238
14506 06185 28529 91347 58476
97654 04920 77677 68494 68775
93995 42047 83420 12029 65119
62117 43236 17108 82136 13364
29498 76417 98320 89878 18024
87216 10241 89350 23597 51616
09230 40880 03965 97942 45682
02349 57570 98181 13039 13354
64933 37672 27264

KKKKKKKKKKKKKKKKKKKKKKKK
      Courtesy BR

```

## Marker Beacons (MX MXI)

### Rogue Russian Beacon - 4505.5kHz

This started as a report from Fritz (FN) on Mon 08 July, of a CW station sending the figure '5' repeatedly on 4505.5kHz. There was some speculation and debate about the identity, but we were hoping it may turn out to be another M23 transmission - M23 has been known to use this format.

On the following evening the '5' had turned to 'V' - but it was still hoped this may become an M23 msg at some point.

However, after a few days had passed and the station had continued to send the series of 'V's, appearing just about dusk in the UK we were resigning ourselves to the fact that may be a misbehaving Russian marker beacon a fact confirmed by Ary (AB) who stated that the freq was at times used by the Russian 'V' marker.

Then on Fri 19 July Fritz reported the beacon was back - this time sending a random sequence of 'Z' & 'B'.

4150	2348z	17 Jul	MXS CW Beacon "V" (Cont'd)	(Remote Tuner Russia)	JPL	WED
------	-------	--------	----------------------------	-----------------------	-----	-----



## Rogue Russian Beacon - 8497.9kHz

This one, reported by new member Nicolas (NDL) from France. Nicolas writes; 'Sunday 18th August at 1220-1603 UTC, I receive CW beacon on 8497.9 KHz with following letter FCCFÖ. Same day at 1903 UTC and also today the letter has changed for CCCCCF. Curious no ? '

Ary (AB) responded that he too had heard this beacon, reporting that ' This happens regularly. I copied this last Sunday. The transmissions are recorded and the loops are transmitted 24/7. I guess that there is something wrong with the recording'.

8497.9	1220 - 1603z	18 Aug	MX	CW	Beacon "L" sending strings of FCCFÖ	NDL	SUN
8497.8	1745z	18 Aug	MX	CW	Beacon "L" sending strings of LLLLLLF	AB	SUN
8497.9	1903z	18 Aug	MX	CW	Beacon "L" sending strings of CCCCCF	NDL	SUN
8497.9	1900z	19 Aug	MX	CW	Beacon "L" sending strings of CCCCCF	NDL	SUN

### Regular Beacon logs:

4328	0143z	21 Jul	MXS	CW	Beacon "R" (Cont'd)	(Remote Tuner Russia)	JPL	SUN
5157	1157z	04 Jul	MXS	CW	Beacon "L" (Cont'd)	(Remote Tuner Finland)	JPL	THU
					Also reported on July 11, 15, 16		JPL	
6918	1145z				Note: Although very loud, suspect that the signal on 6918 is a spurious signal			
		04 Jul	MXS	CW	Beacon "L" (Cont'd)	(Remote Tuner Finland)	JPL	THU
					Also reported on July 16		JPL	
7029	1606z	04 Jul	MXS	CW	Beacon "V" (Cont'd)	(Remote Tuner Russia)	JPL	THU
					Also reported on Aug 24		BR	
8498	1003z	09 Jul	MXS	CW	Beacon "L" (Cont'd)	(Remote Tuner Russia)	JPL	TUE
					Also reported on July 25, 26		JPL	
10872.2	0607z	28 Jul	MX	CW	Beacon "F"	(AB-HK)		SUN
16332.2	0607z	28 Jul	MX	CW	Beacon "F"	(AB-HK)		SUN

**Contributors:** AB, AnonUS, BR, CB, EW, FN, GD, GN, HFD, JkC, JPL, LW, NDL, PoSW, RNGB, T!, Topol, Westt1us. Thank you all for your logs

## HM01 MIXED MODE

## THE FULL HM01 SCHEDULE CAN BE FOUND IN THE CHARTS SECTION

HM01 has been seemingly stuck on the same messages for long periods of time over the past few months with just occasional changes. All RDFT transmissions have been around 30 seconds in length until... On August 22nd HM01 began transmitting a new set of callups which was the first change in almost a month. (Similar occurred on June 26th)

Most of the files transmitted were around 1000 bytes in length and contained random bytes from 0 to 255. Callup 5680 however had a shorter TX of 15 seconds instead of the normal 30-32 seconds. In the June event this was callup 2698. One difference from the previous instances is that the Callup didn't match the last 4 digits of the transmitted file name. 31718600.TXT  
(Last 4 of file name matches the callup).

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 June's HM01 file)

Byte 2 is 01 (Expected 00 or 01)

Byte 3 is 43 (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.

Message contents of 31718600.txt are below with June's message underneath for comparison.

62 68 01 43 00 79 46 80 55 61 39 26 77 35 55 29 91 25 78 71 33 02 64 B9 10 40 72 23 48 06 62 25  
39 82 97 10 97 64 42 29 67 37 79 25 02 96 57 10 57 71 54 56 40 05 60 18 58 50 51 85 81 54 71 70  
50 37 06 42 06 87 29 82 33 45 07 34 30 84 B8 68 68 78 63 65 81 65 37 92 34 39 87 87 07 21 59 56  
89 30 05 81 86 91 26 33 08 35 07 08 94 13 21 65 80 58 26 16 23 28 15 56 67 64 19 B8 20 07 98 06  
09 51 76 00 35 86 64 20 89 B6 04 53 94 02 71 35 84 07 26 48 30 88 84 72 80 59 35 38 67 67 92 92  
57 02 72 31 35 68 30 55 38 B0 84 50 38 37 12 38 20 34 15 45 04 93 63 56 74 47 66 78 92 36 86 79  
03 20 15 26 21 17 15 09 14 72 89 46 92 84 24 08 73 75 78 54 22 27 66 44 89 92 00 47 18 08 11 57  
77 20 61 16 40 78 63 82 16 23 91 39 29 87 23 42 66 72 97 56 39 00 02 44 00 80 48 86 57 26 89 12  
72 12 13 73 97 99 70 97 30 89 18 10 75 15 50 24 90 18 93 98 87 42 73 20 40 24 B0 62 74 11 24 79  
08 17 69 09 87 93 51 85 76 73 41 81 62 69 00 63 09 38 75 94 51 79 42 13 21 34 51 09 61 71 39 40  
61 58 34 59 67 62 71 48 43 29 52 95 34 80 94 44 83 66 77 16 18 35 51 09 69 96 18 70 23 45 91 B9  
89 21 35 03 43 43 53 41 82 61 80 39 18 95 50 98 93 55 47 58 34 26 31 95 10 50 72 05 77 00 84 48  
73 94 42 17 07 89 12 95 16 10 06 38 18 76 90 59 23 62 87 04 98 89 79 38 57 62 04 04 79 67 45 94  
35 87 81 71 51 83 91 71 77 45 32 75 70 93 49 13 72 73 05 56 78 53 38 71 17 06 78 77 50 10 33 15  
39 29 73 64 71 90 40 39 73 91 54 45 46 32 80 41 00 66 29

62 68 01 5D 01 47 41 64 47 12 57 81 23 57 71 67 94 29 09 94 41 49 56 84 40 36 49 05 31 76 10 83  
55 90 93 53 62 80 16 59 37 78 68 06 95 76 47 52 24 17 05 70 23 61 83 39 05 93 08 72 20 B2 27 32  
02 59 26 94 99 17 32 52 14 31 82 82 58 71 47 27 28 19 07 98 57 31 32 97 16 B6 43 28 04 53 44 31  
65 72 59 82 23 41 09 02 36 97 68 20 85 29 28 65 29 51 07 43 15 18 71 71 30 99 08 94 51 94 73 07  
80 42 86 83 29 81 12 33 87 87 17 60 69 80 97 07 67 25 10 63 13 28 68 10 97 29 63 50 B8 84 17 05  
97 38 04 55 79 34 B7 96 16 20 53 49 40 43 15 32 95 39 72 88 67 65 50 29 96 74 97 28 B9 86 64 44  
06 15 34 56 47 36 57 02 53 12 43 39 82 39 70 30 B9 85 91 86 01 17 48 51 67 21 99 24 99 45 86 72  
72 94 91 33 65 00 96 50 07 32 88 62 93 12 73 60 53 59 70 16 79 08 22 56 30 63 78 64 64 61 05 19  
81 21 27 66 74 72 38 48 43 66 31 58 03 66 59 63 90 70 67 61 71 83 89 99 33 32 20 23 38 64 12 46  
78 81 71 42 62 82 42 39 10 17 81 25 83 98 66 66 11 10 51 74 93 46 34 B1 55 31 18 68 28 67 22 65  
39 17 B9 68 67 78 78 60 70 87 20 15 20 55 05 19 82 35 01 13 19 65 25 28 29 92 59 88 10 75 82 56  
53 16 64 71 69 79 12 54 48 98 37 48 43 38 69 20 78 92 98 10 10 82 B8 62 91 62 86 80 27 B4 62 51  
79 06 36 33 91 58 28 00 95 09 57 80 43 15 21 25 25 79 28 85 66 05 75 14 42 B5 85 81 93 14 34 95  
30 47 55 66 00 92 14 00 30 93 56 20 55 29 24 82 93 46 19 94 42 33 19 73 41 75 93 03 21 66 09 B8  
41 07 69 45 95 79 77 44 49 21 90 65 47 69 41 90 90 50 56 35 36 25 50 02 86 33 68 38 95 31 51 02  
74 04 14 93 97 16 20 57 74 59 29 42 17 29 31

*Now onto logs, starting with PoSW's*

Working to the established schedule but often starts up on the wrong frequency - usually the one used for a transmission in the previous hour. Presumably this is an error and does not have some particular purpose? Happens so frequently you have to wonder! Usually, but not always, vanishes a few minutes into the transmission and eventually comes up on the correct frequency.

1-July-13, Monday:- 0558 UTC, 10,345 kHz, "25265 18308 77863 41312 55725 26986".  
S9 with good audio.

4-July-13, Thursday:- 0558 UTC, 14,375 kHz, "64113 04513 77866 41315 03233 48282".  
Data started 0601 and 45s UTC, S7 to S8.

5-July-13, Friday:- 0558 UTC, 5,855 kHz, starting up on the wrong frequency, I think 5,855 is used in the previous hour for anyone up early enough to play radio. "64114 04514 77867 82501 03234 48283". Had done a QSY to 10,345 kHz when checked at 0610z, peaking S9+.

12-July-13, Friday:- 0558 UTC, 10,345 kHz, "87215 71303 51575 82507 46835 50264".  
Data started approx 30 seconds past the hour.

13-July-13, Saturday:- 0658 UTC, 13,435 kHz, "87216 71304 51576 24441 46836 50265",  
0858 UTC, 12,120 kHz, 5F groups as earlier, FSK/RTTY signal on close frequency.

15-July-13, Monday:- 0558 UTC, 5,855 kHz, starting up on the wrong frequency, "63541 71306 51578 24443 41672 26141". Had moved to 10,345 kHz when checked again at 0608z  
with an S9+ signal.

18-July-13, Thursday:- 0557 UTC, 14,375 kHz, "63544 68121 64273 24446 41675 26144".

19-July-13, Friday:- 0557 UTC, 5,855 kHz, the wrong frequency again, "63545 68122 64274  
24447 41676 26145". Vanished just before 0559 UTC, came up on 10,345 kHz shortly afterwards. S9 with good audio.  
2159 UTC, 10,715 kHz, same 5Fs as this morning, S5 with rapid flutter on the signal.

21-July-13, Sunday:- 0557 UTC, 5,855 kHz, wrong frequency yet again, "63545 68122 64274 24447 41676 26145". Weak signal. Vanished just after 0558z, did not QSY to 10,345  
straight away when monitored until 0603z but was up with an S9 signal on this frequency when checked again at 0610z.  
0657 UTC, 10,345 kHz, another start-up on the frequency used in the previous hour, 5F groups as earlier, data started 30 seconds past the hour. Had gone from 10,345 and was on 9,330 with an S9 signal, over-riding the weak broadcast station, when checked again after 0705 UTC.  
0757 UTC, 9,065 kHz, correct frequency here! 5Fs as earlier, S6 to S7.  
0857 UTC, 9,240 kHz, weak signal, difficult copy, S3 to S4 with deep QSB.

25-July-13, Thursday:- 0558 UTC, 14,375 kHz, "07022 03631 37672 18653 62111 66161".  
S8 to S9 with very good audio. Long call-up, was still going at 0604 UTC, 7.04 AM in the UK, when I gave up and pulled the Big Switch; some of us have work to go to!

26-July-13, Friday:- 0558 UTC, 10,345 kHz, "07022 03631 37672 18653 62111 66161", data started 20 seconds past the hour, S9 with good audio.

28-July-13, Sunday:- 0558 UTC, 10,345 kHz, "07022 03631 37672 18653 62111 66161".  
Peaking S9 with deep QSB, good audio, data at 0600 and 25s UTC.  
0658 UTC, 9,330 kHz, 5Fs as earlier, over-riding weak BC station.

10-Aug-13, Saturday:- 0657 UTC, 13,435 kHz - I haven't bothered with HM01 for a fortnight but the 5Fs in the call-up are the same! "07022 03631 37672 18653 62111 66161". Data noise started just after 0700z.  
0857 UTC, 12,120 kHz, 5Fs as earlier, S9, FSK/RTTY on a close frequency.

12-Aug-13, Monday:- 0557 UTC, 10,345 kHz, "07022 03631 37672 18653 62111 66161".  
S9 to S9+.

14-Aug-13, Wednesday:- 0557 UTC, 5,855 kHz, starting up on the wrong frequency, S9+ signal, "07022 03631 37672 18653 62111 66111". Vanished from 5,855 just before 0559 UTC, appeared on 10,345 shortly after, S7 to S8.

17-Aug-13, Saturday:- 0657 UTC, 13,435 kHz, "07022 03631 37672 18653 62111 66161", so no change there!

18-Aug-13, Sunday:- 0858 UTC, 9,240 kHz, "07022 03631 37672 18653 62111 66161", weaker than most HM01 transmissions, S4 to S5.

21-Aug-13, Wednesday:- 0557 UTC, 10,345 kHz, "07022 03631 37672 18653 62111 66161".  
S9 with good audio.

5855kHz0457z	22/07 ends 0459z	SH	MON
5855kHz0500	26/07 Good signal s9 peak	VE7	FRI
5855 CUBA Numbers Station HM-01 At 0457 start of preamble with five digit number groups by Female mechanical Spanish voice until 0459 stopped listening. Nothing on any other known HM-01 frequency. Monday 7-22-13-Steve			
5855kHz0600	26/07	VE7	FRI
5855kHz1000z	22/07 // 9155	SH	MON
5855 CUBA Numbers Station HM-01 in progress at 1000-1003. AM Mode Alternating Synthesized Female Voice in Spanish with a five digit number followed by an RDFT (Redundant Digital File Transfer) data transmission. The signal on 5855 was good-excellent // 9155 with excellent signal. Monday 7-22-13 -Steve			
10345kHz0632z	21/07	SH	SUN
CUBA Numbers Station HM-01 in progress at 0632-0634 AM Mode heard alternating Synthesized Female Voice in Spanish with a five digit number followed by an RDFT (Redundant Digital File Transfer) data transmission. Excellent signal Sunday 7-21-13-Steve			
10715kHz2204z	10/07[i/p 50263 87214 71302 51574 82506 46834]2259z		
Weak QRM1 QSB3 JkC WED Found in progress, alternating single 5F group with RDFT. This continued until 2224z, but carrier stayed on air. At 2228z, sked began again with same set of 6 5F groups repeated until 2230z, then reverted to alternate single 5F/RDFT. Sked ended at 2254z, but carrier again stayed on air. At 2257z, the same 5F groups were repeated, ending at 2258z. Carrier went off air at 2259z. With the exception of 8250x, seen on 4/7 as 82501, this seems to be a new set of IDs. HM01 11530kHz 2300z 10/7[NRH]2320z			
		JkC	WED
11635kHz1600z	00/07[64111 04511 77864 41313 03231 26987]	AnonUS	MON
1040z	04/07 CUBA Numbers Station HM-01		
In progress at 1040 with Female synthesized voice in Spanish with a five digit number alternating with RDFT data transmissions until 1054:40 (plus or minus a second) end of audio			
broadcast on 11635.			
Signal excellent, modulation good. There was a shortwave Station underneath HM-01 during the broadcast. I could not identify any details or identity of the station. After the audio for the HM-01 broadcast ended at 1054:40 the HM-01 carrier continued but at that point the shortwave stations signal was good and it was China Radio International in English with the "I Want to Learn Chinese" program. I listened to CRI until between 1056 and 1057 GMT when the carrier for HM-01 ceased. At the same time the HM-01 carrier ceased I underneath which I was unable to understand or even identify the language. This leads to the question, of whether the shortwave signal I heard weak underneath HM-01 actually being broadcast by the HM-01 transmitter so that when HM-01's audio ended, the shortwave signal became clear and understandable, and ceased when the HM-01 carrier ceased, or was the drastic signal strength reduction of th CRI shortwave signal att he time the HM-01 carrier ended co-incidence?			
Beside broadcasting on 11635, HM-01 from tune in at 1040 until the 1054 sign off was // on 12180 kHz with a good but fluctuating signal and good modulation. However, HM-01's audio about 3 to 4 seconds behind the same audio on 11635 kHz. //1280kHz			
		SH	THU
11635kHz1825z	04/07[64114 04514 77867 82501 03234 48283] 1835z	Anon	THU
11635kHz1600z	05/07[65115 04515 77868 82502 03235 48284]	AnonUS	FRI
Tie ups as follows, all files around 1024 bytes in size			
65115 00624663.txt 04515 8070261.txt 77868 55072543.txt 82502 38101745.txt 03235 66214084.txt 48284 32014444.txt			
11635kHz1600z	07/07[87211 04516 51571 82503 46831 48285] 3 new callups, all RDFT transmissions approximately 30s lg	AnonUS	SUN
11635kHz1045z	30/07	SH	TUE
11635 CUBA Numbers Station HM-01 1045-1048 with excellent signal and good modulation // 12180 with fair-good signal. Female synthesized voice in Spanish with a five digit number alternating with RDFT data transmissions. Tuesday 7/30/13-Steve			
12180kHz1045z	30/07 very strong here in Brazil!	pp5	TUE
13435kHz0658z	18/07	LJ, SWR	THU
14375kHz0518z	18/07	LJ	THU

14375kHz0508z	23/07		SH	TUE
14375 CUBA Numbers Station HM-01 in progress at 0508 to 0510 alternating Female synthesized voice in Spanish with a five digit number in between RDFT data transmissions fair to good signal Tuesday 7-23-13. Also tried earlier tonight from 0459 to 0501 and nothing heard on 14375, 12120 or any other known HM-01 frequency. -Steve				
<b><u>August2013:</u></b>				
5855kHz1040z	14/08		SH	WED
5855 CUBA Numbers Station HM-01 1040-1043 Female synthesized voice in Spanish with a five digit number alternating with RDFT data transmissions with good signal good modulation // 9155 with good-excellent signal very slightly under-modulated voice audio. Nothing any other known HM-01 frequencies. Wednesday 14 August 2013				
9065kHz0841z	18/08		SH	SUN
9065 CUBA Numbers Station HM-01 0841-0847 good signal, slightly good modulation with Spanish language mechanical synthesized voice with five digit numbers alternating with RDFT data transmission. Nothing heard on any other known HM-01 frequency. Sunday 8-18-13				
10715kHz 2158z	12/08[07022 03631 37672 18653 62111 66161]	2250z Fair QRN3 QSB3	Spectre	MON
11435kHz1600z	22/08[56901 22574 15441 50182 08444 51835]	New callups after several weeks stuck on the previous msg.	AnonUS	THU
56901 31718600.txt 22574 56073417.txt 15441 30847867.txt 50182 22017372.txt 08444 81355132.txt 51835 12863053.txt				
11530kHz2300z	16/08[62111 66161 07022 03631 37672 18653 ]	QSA3 QSB2	DanAR	FRI
11635kHz0818z	24/08		SH	SAT
11635 CUBA Numbers Station HM-01 listened at 0818 and heard Female synthesized voice in Spanish with a five digit number alternating with RDFT data transmissions. Excellent signal and good modulation. Nothing heard on any other known HM-01 frequency. Saturday 8/24/13 -Steve				
14375kHz0539z	17/08		SH	SAT
14375 CUBA Numbers Station HM-01at 0539-0540 fair to poor signal due to interference (static) RDFT data alternating with Spanish mechanical five digit voice with five digit number number. Nothing else heard on any other known HM-01 freq. Saturday 8/17/13-Steve				
17480kHz2158z	10/08 [07022 03631 37672 18653 62111 66161]	2250z Fair QRN3 QSB3	Spectre	SAT
17480kHz2200z	31/08		PY4	SAT
17540kHz2300z	31/08	very strong signal S9+20dB 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			PY4	SAT

## **VOICE STATIONS**

### **E06**

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

##### **E06 July log:**

Weds 10th	19:20	5423	'218' 0000
Thurs 18th	05:00	14580	'679' 852 103 68709 68444 18057 40269 44278.....54874
	06:00	16090	'679' 852 103 68709 68444 18057 40269 44278.....54874
	20:30	5948	'754' 243 15 53627 28491 73921 47920 61926.....
Friday 19th	21:30	5731	'315' 468 15 56172 82734 90123 74823 89309.....63788

##### **E06 August log:**

Thurs 1st	05:00	13930	'210' 468 109 98041 73118 76177 03125 87450.....93269
	06:00	15890	'210' 468 109 98041 73118 76177 03125 87450.....93269
	20:30	5948	'724' 532 15 26381 02783 92472 84100 04712.....83910
Weds 14th	20:20	4537	'218' 00000
Thurs 15th	05:00	13930	'210' 468 109 98041 73118 76177 03125 87450.....93269

## PoSW's logs:

### First + Third Thursdays 2030 UTC Schedule:-

18-July-13:- 5,948 kHz, flattened by S9+ BC station on 5,950 kHz, could just about tell that the E06 OM was on 5,948 but was generally unreadable, as was also the case in May and June.

1-Aug-13:- 5,948 kHz, unreadable due to broadcaster on 5,950.

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

5-July-13:- 5,731 kHz, calling "315", DK/GC "468 468 15 15". S9 to S9+, no unpleasant rasping noises on the audio. Ended 2137z.

19-July-13:- 5,731 kHz, "315" and "468 468 15 15", as on the 5<sup>th</sup>. S9 with good audio.

2-Aug-13:- 5,731 kHz, call "315", DK/GC "902 902 15 15". The "rasping" noise on the speech is back.

16-Aug-13:- 5,731 kHz, "315" and "902 902 15 15" with unpleasant noise.

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

4-July-13:- 0500 UTC, 14,580 kHz, calling "679", DK/GC "852 852 103 103". Strong FSK signal on close frequency.  
0600 UTC, 16,090 kHz, second sending, good signal peaking S9 with no QEM. Same frequencies as in July last year.

5-July-13, Friday:- repeats of a "full message" on the following day, 0500 UTC, 14,580 kHz, still with the FSK interference, and 0600 UTC, 16,090 kHz, much weaker signal than yesterday, S4 at best.

18-July-13:- 0600 UTC, 16,090 kHz, "679" and "852 852 103 103" again, S8.

19-July-13, Friday:- 0518 UTC, 14,580 kHz, first sending of the "next day repeat" in progress, the FSK signal still there.  
0600 UTC, 16,090 kHz, second sending.

1-Aug-13:- 0500 UTC, 13,930 kHz, calling "210", DK/GC "468 468 109 109", S6 to S7.  
0600 UTC, 15,890 kHz, second sending, S5, same frequencies as in August last year.

2-Aug-13, Friday:- 0517 UTC, 13,930 kHz, first sending of next day repeat, weak signal, was even weaker and unreadable at 0500z.  
0600 UTC, 15,890 kHz, second sending, S7 to S8, much stronger than first sending.

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

10-July-13:- 1920 UTC, 5,423 kHz, "218 218 218 00000". S8 to S9, had that ghastly "rasping" noise on the audio noted on many occasions in the past with UK evening time

E06 schedules - but never on the early morning Thursday transmissions.

2020 UTC, 4,537 kHz, second sending, also with distorted speech. Same frequencies as in May and June.

14-Aug-13:- 1920 UTC, 5,423 kHz, "218 218 218 00000", S9, clean audio.  
2020 UTC, 4,537 kHz, second sending, S9.

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

14-July-13:- 1120 UTC, 8,144 kHz, "218 218 218 00000", very weak signal, only just readable.  
1220 UTC, 7,384 kHz, second sending, even weaker. Same frequencies as in May and June.

18-Aug-13:- 1120 UTC, 8,144 kHz, "218 218 218 00000", weak but clear copy in USB mode, with "rasping" noise.  
1220 UTC, 7,384 kHz, second sending, very weak.

## Others' logs with repetition:

### July 2013:

5423kHz1920z	10/07[218 R3 00000 R3m]1823z Strong QRM1 QSB2	JkC	WED
5731kHz2130z	05/07[315 468 15 56172 ... 63788 468 15 00000]2137z Strong QRM1 QSB2 315 468 15 56172 82734 90123 74823 89309 84368 99301 73812 73456 83911 56371 89234 78212 00982 63788 468 15 00000 <i>Courtesy JkC</i>	JkC	FRI
2130z	19/07[315 468 15 56172 ... 63788 468 15 00000(s)] 2137z Fair QRN2 QSB2	Spectre	FRI
5948kHz2030z	18/07[754 243 15 53627 ... 62819 243 15 00000(s)] Strong signal, BCQRM 754 243 15 53627 28491 73921 47920 81923 68690 52718 26839 02734 17234 25671 76378 53821 25361 62819 243 15 00000 <i>Courtesy FR</i>	FR. Spectre	THU
14580kHz0500z	19/07[679 852 103 68705 ... 54874 852 103 00000 ] Strong signal, RTTY QRM 679 852 103 68705 68444 18057 40269 44278 65821 88050 33031 58362 68537 68875 02177 73253 09027 02556 32118 57518 37417 51230 66044 64577 83194 49220 85008 21937 70089 21212 17588 73243 95126 21237 53553 40366 07762 72148 59970 97682 50068 10264 23193 75755 43888 64878 65160 36602 35890 27325 07454 87716 36483 89275 81546 27069 13518 **496 08682 36*31 **667 57020 97809 63847 13591 30827 35042 66615 63498 25626 63034 99982 39443 61334 73758 75730 34972 53709 63081 28641 76226 69561 20606 59440 05382 87515 53199 46190 06374 70389 69055 41327 58847 78691 46898 96539 31266 79912 35250 82650 49120 33310 61061 96724 99166 54874 852 103 00000 <i>Courtesy FR</i>	FR	FRI

## August 2013:

5731kHz 2130z	02/08[315 902 15 78023 ... 74500 902 15 00000(s)] 2137z Fair QRN2 QSB2	Spectre	FRI
5731kHz 2130z 02/08 Transcript: 315 902 15 78023 74912 64729 84710 84933 80594 03712 84731 38220 84213 92710 83921 83922 73611 74500 902 15 00000 <i>Courtesy Spectre</i>			
2130z	16/08[315 902 15 78023 ... 74500 902 15 00000(s)] Fair to strong with some audio distortion	(6m02s) PLdn	FRI
5943kHz 2030z	15/08[724 562 15 buried in Broadcast stations] 2038z S5	M8	THU
5948kHz 2030z	01/08[724 532 15 263*1 ... 83910 532 15 00000(s)] 2037z Fair BCQRM4 QSB3	Spectre, FR	THU

## E07

### PoSW's logs

Continues to use the same frequencies as in the same month of several past years with the notable exception of the Sunday + Wednesday 1700z schedule which changed frequencies earlier in the year.

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

3-July-13, Wednesday:- 1700 UTC, 13,898 kHz, "817 817 817 000". S7 to S8, reasonable audio, found approx. 1 minute into the transmission.  
1720 UTC, 12,198 kHz, second sending, S9

7-July-13, Sunday:- 1720 UTC, 12,198 kHz, second sending with full message, "817 817 817 1", DK/GC "150 66" x 2, S9+.  
1740 UTC, 10,798 kHz, third sending, S9.

10-July-13, Wednesday:- 1700 UTC, 13,898 kHz, "817" and "150 66", as on Sunday, S9+ with better than usual audio.  
1720 UTC, 13,898 kHz, second sending, S9+.  
1740 UTC, 10,798 kHz, third sending, S9+ with very good, almost *excellent* audio!

17-July-13, Wednesday:- 1720 UTC, 12,198 kHz, "817 817 817 000", audio low but readable.

24-July-13, Wednesday:- 1700 UTC, 13,898 kHz, "817 817 817 1", DK/GC "294 192" x 2.  
S9 signal with good audio. Long message, highest group count from E07 for some time, I think. Did not end until just before 1722 UTC.  
1727 UTC, 12,198 kHz, second sending, S9 with good audio.  
1752 UTC, 10,798 kHz, third sending, audio much lower than the first two transmissions.

31-July-13, Wednesday:- 1700 UTC, 13,989 kHz, "817 817 817 1", DK/GC "491 122" x 2.  
S9 with good audio.  
1720 UTC, 12,198 kHz, second sending, weaker.  
1740 UTC, 10,798 kHz, third sending, weakest of the three.

11-Aug-13, Sunday:- 1728 UTC, 12,181 kHz, second sending of August's trio of frequencies in progress with a full message, S9+ with good audio. Ended "000 000" after 1732 UTC.  
1740 UTC, 10,881 kHz, third sending, "818 818 818 1", DK/GC "922 96" x 2. S9 with good audio.

14-Aug-13, Wednesday:- 1700 UTC, 13,881 kHz, first sending but weak signal and low audio, unreadable.  
1720 UTC, 12,181 kHz, second sending, also unreadable in complete contrast to Sunday's transmission.  
1740 UTC, 10,881 kHz, "818 818 818 1", DK/GC "922 96" x 2. The only readable sending this evening, S9 with reasonable audio.

21-Aug-13, Wednesday:- 1700 UTC, 13,881 kHz, "818 818 818 000", good audio, extremely strong carrier on HF side causing beat note, removed by using receiver in LSB mode, possible because E07 uses old-school amplitude modulation with both side-bands!  
1720 UTC, 12,181 kHz, second sending, S9+ with good audio.

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

3-July-13, Wednesday:- 1900 UTC, 14,812 kHz, "845 845 845 1", unable to resolve DK/GC due to weak signal and low audio.  
1920 UTC, 13,412 kHz, second sending, flattened by strong "XJT" but DK/GC heard as "820 88".  
1940 UTC, 11,512 kHz, "845 845 845 1", DK/GC "820 88" x 2. S9+ with good audio, by far the best sending of the three. Same frequencies as in July of past years.

10-July-13, Wednesday:- 1900 UTC, 14,812 kHz, "845 845 845 000", S9 with good audio.

15-July-13, Monday:- 1900 UTC, 14,812 kHz, "845 845 845 000", S9+ with good audio.

17-July-13, Wednesday:- 1900 UTC, 14,812 kHz, "845 845 845 000", S9, reasonable audio.  
1920 UTC, 13,412 kHz, second sending with strong "XJT" for company.

31-July-13, Wednesday:- 1900 UTC, 14,812 kHz, "845 845 845 000", S8.

7-Aug-13, Wednesday:- 1900 UTC, 14,378 kHz, "349 349 349 000", S9.  
1920 UTC, 13,458 kHz, second sending, interference from a carrier being frequency – swept at approx 2 per second.

21-Aug-13, Wednesday:- 1900 UTC, 14,378 kHz, "349 349 349 000", S9, good audio.  
1920 UTC, 13,458 kHz, second sending with swept carrier interference.

Thursday Schedule, 2010 UTC Start:-

11-July-13:- 2010 UTC, 11,539 kHz, “553 553 553 000”, S9 with good audio.  
2030 UTC, 10,547 kHz, second sending, S9.

18-July-13:- 2010 UTC, 11,539 kHz, “553 553 553 000”, S9.

25-July-13:- 2010 UTC, 11,539 kHz, and 2030 UTC, 10,547 kHz, both S9+ with good audio,  
“553 553 553 000”.

1-Aug-13:- 2010 UTC, 10,753 kHz, “716 716 716 000”, S9, reasonable audio.  
2030 UTC, 9,147 kHz, second sending, S9.

22-Aug-13:- 2010 UTC, 10,753 kHz, “716 716 716 000”, S9, good audio.  
2030 UTC, 9,147 kHz, second sending, S9+.

**RNGB's E07 logs**

**E07 July log:**

Sun 7th	17:00	13898	‘817’ 1 150 66 95801 45100 92755 23728.....62348
	17:20	12198	‘817’ 1 150 66 95801 45100 92755 23728.....62348
	17:40	10798	‘817’ 1 150 66 95801 45100 92755 23728.....62348
Mon 8th	19:00	14812	‘845’ 1 820 88 17457 23344 50593 14119.....
Sun 14th	17:20	12198	‘817’ 000
Thurs 18th	20:30	10547	‘553’ 000
Sun 28th	17:00	13898	‘817’ 1 491 122 09901.....
Weds 31st	17:00	13898	‘817’ 1 491 122 09901 26653 74104.....

**E07 August log:**

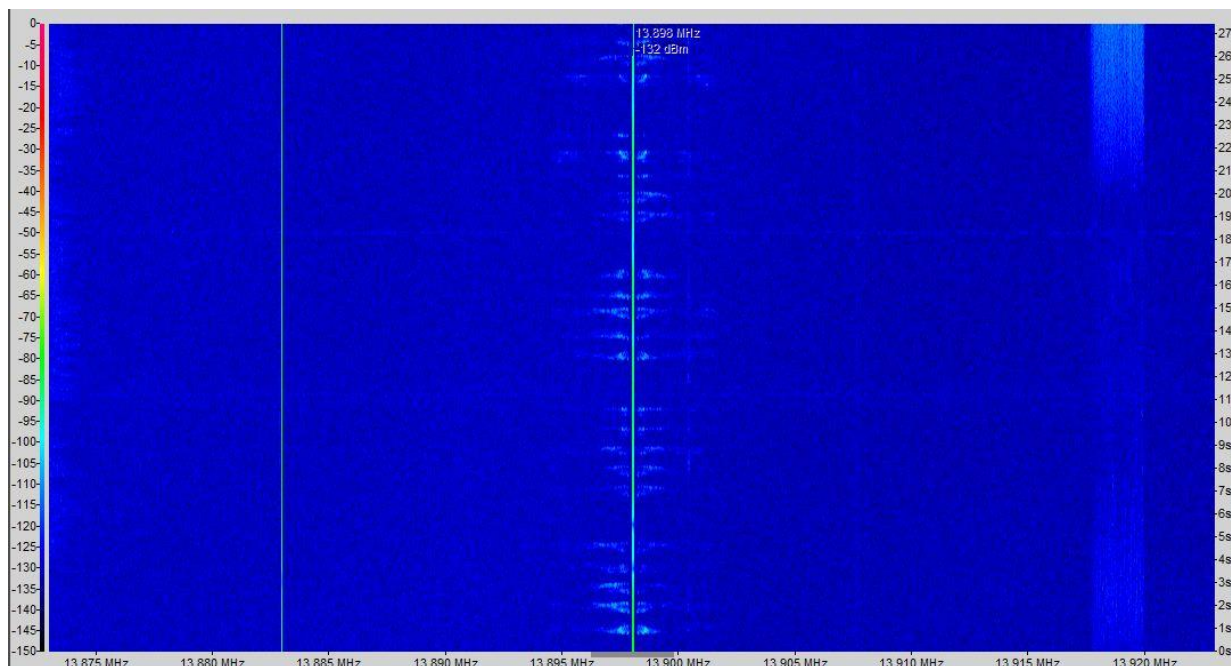
Thurs 1st	20:10	10753	‘716’ 000
Sun 4th	17:00	13881	‘818’ 000
	17:20	12181	‘818’ 000
Weds 7th	17:20	12181	‘818’ 000
	19:00	14378	‘349’ 000
Thurs 8th	20:10	10753	‘716’ 000
Weds 14th	17:40	10881	‘818’ 1 922 9663103 5-424 85032 53322.....
Sun 18th	17:00	13881	‘818’ 000
Thurs 22nd	20:10	10753	‘716’ 000

**Others Logs, with repetition:**

**July 2013:**

10547kHz 2030z	11/07[553 000] Very strong signal, weak noise	FR, JkC, Topol	THU
2030z	25/07[553 R3 000]2033z Strong QRM1 QSB1	JkC	THU
10798kHz1740z	10/07[817 1 150 66 55801 ... 62348 000 000]1749z Strong QRM1 QSB2	JkC	WED
1748z	24/07 Carrier only	PLdn	WED
11512kHz1940z	01/07[845 1 nnn nnn 17457 ... 09272 000 000] Strong carrier, weak audio	(11m24s) PLdn	MON
1940z	03/07[845x3 1 820 88.....000]1951z S1	M8	WED
11539kHz2010z	11/07[553 R3 000]2012z Strong QRM1 QSB1	JkC	THU
2010z	18/07[553 000] Weak and noisy	PLdn	THU
2010z	25/07[553 000] Strong	(2m12s) PLdn, Topol	THU
12198kHz1720z	10/07[817 1 150 66 55801 ... 62348 000 000]1729z Strong QRM1 QSB2	JkC	WED
1728z	24/07[817 1 294 192 39551 ... 67171 000 000] ending 1949z Very strong	(21m50s) PLdn, Topol	WED
13412kHz1920z	01/07 XJTQRM5	PLdn	MON
1920z	03/07[845x3 1 820 88.....000]1931z S1	M8	WED
1920z	10/07[845 000] Strong, XJTQRM3	(2m14s) PLdn	WED
1920z	17/07[845 000] Fair, XJTQRM3	(2m07s) PLdn	WED
1920z	22/07[845 R3 000 R2m]1912z Strong QRM4 QSB1	JkC	MON
13898kHz1700z	10/07[817 1 150 66 55801 ... 62348 000 000]1709z Strong QRM1 QSB1	JkC	WED





13898kHz 1700z 24/07 192grp msg lasting 21m50s and sent during generally good conditions

1700z 24/07[817 1 294 192 39551 ... 67171 000 000] ending 1922z Very strong *see image above* (21m50s) PLdn, Topol WED

817 1 294 192  
39551 40669 17475 08363 72267 25269 91938 91272 36005 50311  
48874 75642 49264 31919 17258 64181 33159 65615 22757 77478  
66258 32129 28038 09250 72241 74399 89919 72682 13026 74064  
57978 45139 11683 03577 27525 61264 04483 17786 95703 89796  
96697 48208 50561 16360 61481 34258 59085 92704 94113 57939  
41408 92474 73665 89146 51493 48560 87209 91281 27725 13156  
69258 36843 74004 77968 30065 23390 85912 89133 24092 03093  
85930 19445 97343 63384 95611 74137 46950 29588 85559 10421  
48602 61803 50888 51282 79774 91442 47865 73050 87905 21987  
72089 61708 28293 40042 43995 73973 87466 10661 74507 56680  
22741 74395 72041 33678 24877 31948 04490 93343 96865 24842  
30984 63981 99410 38337 99544 37304 29946 77961 89059 16552  
16704 29805 74311 82711 74965 01930 46176 34596 36458 11837  
92086 04844 05869 37421 37618 62265 96377 90880 54718 68619  
47970 33511 92190 28404 02327 17622 30818 97585 58607 72080  
50066 66052 13460 97826 86644 44141 21758 56479 27297 31399  
58737 82278 44444 24208 18950 67897 03529 90728 46457 80975  
12864 14258 32706 15396 23286 09538 05243 09749 09066 48636  
31793 60041 62053 58280 70706 32311 79985 56177 43942 95606  
29506 67171 000 000  
*Courtesy Topol*

14812kHz1900z	01/07[845 1 nnn nnn 17457 ... 09272 000 000] Strong carrier, weak audio	(11m24s)	PLdn	MON
1900z	03/07[845x3 1 820 88.....000]1911z S1		M8	WED
1900z	10/07[845 000] Strong	(2m14s)	PLdn	WED
1900z	17/07[845 000] Fair	(2m07s)	PLdn	WED
1900z	22/07[845 R3 000 R2m]1902z Strong QRM1 QSB1		JkC	MON

#### August2013:

9147kHz2030z	15/08[716x3 000.....]2033z S1		M8	THU
2030z	22/08[716 000] Fair, noisy	(2m13s)	PLdn, M8	THU
10753kHz2010z	22/08[716 000] Fair	(2m13s)	PLdn, M8	THU
10881kHz1740z	11/08[818:1-922/96=63103]		HFD	SUN
1740z	28/08 Mostly inaudible, odd characters		PLdn	WED
11752kHz2010z	01/08[716 000] Very strong signal, moderate noise		FR	THU
12181kHz1720z	04/08[818 000] Poor audio, strong carrier	(2m14s)	PLdn	SUN
1720z	07/08[818 000] Poor audio, strong carrier	(2m14s)	M8,PLdn	WED
1720z	11/08[818:1-922/96=63103]		HFD	SUN
1720z	18/08[818 000] Weak audio, strong carrier	(2m14s)	PLdn	SUN
1720z	21/08[818 000] Strong	(2m14s)	PLdn	WED
1720z	28/08[818 1 (425 88) ..... 000 000 ] Weak, odd characters	(11m25s)	PLdn	WED
13458kHz1920z	05/08[349 000] Fair to weak, XJTQRM3	(2m13s)	PLdn	MON
1920z	07/08[349 000] Weak, QRM3	(2m13s)	M8,PLdn	WED
1920z	12/08[349 000] Weak audio, strong carrier	(2m13s)	JkC,PLdn	MON
1920z	21/08 QRM5, evidence of carrier	(2m13s)	PLdn	WED
1920z	26/08[349 R3 000]1922z Strong QRM1 QSB1		JkC	MON
1920z	28/08 Carrier only	(2m13s)	PLdn	WED

13881kHz1700z	04/08[818 000] Strong	(2m14s)	PLdn	SUN
1700z	07/08[818 000] Fair	(2m14s)	M8,PLdn	WED
1700z	11/08[818:1-922/96=63103]		HFD	SUN
1700z	21/08[818 000] Strong	(2m14s)	PLdn	WED
1700z	28/08[818 1 (425 88) ..... 000 000 ] Weak, odd characters	(11m25s)	PLdn	WED
14378kHz1900z	05/08[349 000] Fair to weak, XJTQRM3	(2m13s)	PLdn, M8	MON
1900z	07/08[349 000] Fair, XJTQRM2	(2m13s)	M8,PLdn	WED
1900z	12/08[349 000] Strong [XJTQRM4 removed by phase]	(2m13s)	PLdn, JkC	MON
1900z	21/08[349 000] Fair	(2m13s)	PLdn	WED
1900z	26/08[349 R3 000]1902z Strong QRM1 QSB1		JkC, PLdn	MON
1700z	28/08[818 1 (425 88) ..... 000 000 ] Weak, odd characters	(11m25s)	PLdn	WED

## **E07a**

### **PoSW's logs**

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

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

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

17-July-13:- 2000 UTC, 8,173 kHz, and 2020 UTC, 7,473 kHz, both S9+, "147 147 147 000".

31-July-13:- 2004 UTC, 8,173 kHz, missed the start and it's a "full message" this evening. The usual S9 plus many dB, Old Man! Ended 2008z with "000 000".

2020 UTC, 7,473 kHz, "147 147 147 1 13824", you get a 5F group in the call-up with E07a for some reason! DK/GC "6179 61" x 2, S9+.

2040 UTC, 5,773 kHz, third sending, S9+.

21-Aug-13:- 2000 UTC, 8,173 kHz, "147 147 147 1 69693", DK/GC "7008 56" x 2.

Very strong SSB signal.

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

2040 UTC, 5,773 kHz, third sending, also S9+.

#### Saturday E07a SSB Schedule, 0800 UTC Start:-

6-July-13:- 0800 UTC, 12,173 kHz, "198 198 198 000", S5 to S6.

0820 UTC, 13,973 kHz, second sending, weak signal. Same frequencies as in July last year.

13-July-13:- 0800 UTC, 12,173 kHz, "198 198 198 000".

20-July-13:- 0800 UTC, 12,173 kHz, "198 198 198 000", peaking S8, stronger than usual.

27 July-13:- 0820 UTC, 13,973 kHz, missed the 0800z sending – and it's a "full message" for a change! "198 198 198 1 13037", DK/GC "7509 54" x 2, weak signal.

0840 UTC, 14,873 kHz, third sending, slightly stronger than the 0820z.

3-Aug-13:- 0800 UTC, 12,177 kHz, "148 148 148 000".

0820 UTC, 13,477 kHz, second sending.

10-Aug-13:- 0800 UTC, 12,177 kHz, and 0820 UTC, 13,477 kHz, "148 148 148 000".

17-Aug-13:- 0800 UTC, 12,177 kHz, a "full message" this morning, "148 148 148 1 34430", DK/GC "5015 73" x 2. S9 signal, much stronger than usual.

0820 UTC, 13,477 kHz, second sending, also S9.

0840 UTC, 14,877 kHz, third sending, much weaker, by far the weakest of the three transmissions.

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

#### **E07a July log:**

Weds 10th	20:00	8173	'147' 000
Sat 13th	08:00	12173	'198' 000
Weds 17th	20:00	8173	'147' 000
Thurs 18th	04:30	7437	'411' 000
Friday 19th	15:30	11413	'241' 000
Weds 31st	20:00	8173	'147' 1 13824 6179 61 41174 96572 05306 45592.....79574

#### **E07a August log:**

Friday 2nd	15:10	12213	'241' 000
Sat 3rd	08:00	12177	'148' 000
Weds 14th	20:00	8173	'147' 1 13824 6179 61 41174 96572 05306 45592.....79574
Thurs 15th	05:10	9137	'411' 1 13824 6179 61 41174 96572 05306 45592.....79574
Friday 16th	15:10	12213	'241' 1 34430 5015 73 46558 12180 123185 52114.....46194 56095
Friday 23rd	15:10	12213	'241' 000

## Others' Logs, with repition

### July 2013:

5773kHz2040z	24/07[147 1 60108 456 96 15747 ... 94242 000 000] Fair	Rpt 26/06/2013	(10m21s)	Spectre, Topol	WED
	147 1 60108 456 96 15747 24046 99981 00242 24805 19924 87952 93247 01914 93427 42767 48326 62255 18523 73293 28047 92312 43356 52859 03699 23312 37507 42534 56753 59979 92311 78751 97973 03838 87496 37278 77866 92032 89432 73411 85291 42165 97415 48038 98858 88402 08802 42870 10722 19597 07253 63567 44711 33410 22679 55183 34487 77049 47028 41706 19355 80919 21018 44109 02108 20044 51644 71919 49309 07584 18930 76468 82676 53487 72285 36228 90118 36581 74996 07922 49731 68387 38879 28606 01312 02880 04261 44007 04082 80088 62433 42202 39563 26615 90139 98734 58901 23171 33285 22495 94242 000 000 <i>Courtesy Topol</i>				
2040z	31/07[147 1 13824 6179 61 41174 ... 79574 000 000] Very strong		(7m52s)	Spectre, PLdn	WED
7437kHz0430z	04/07[411 000] Very strong		(2m10s)	PLdn	THU
0430z	11/07[411 000] Very strong		(2m10s)	PLdn	THU
0430z	18/07[411 000] Very strong		(2m10s)	PLdn	THU
0430z	25/07[411 1 60108 456 96 15747 ... 94242 000 000] Very strong	Rpt 27/06/2013	(10m21s)	PLdn	THU
7473kHz2020z	03/07[147 000] Very strong		(2m08s)	Spectre, PLdn	WED
2020z	10/07[147 000] Very strong, BCQRM2		(2m08s)	Spectre, PLdn	WED
2020z	17/07[147 000] Very strong, BCQRM2		(2m08s)	Spectre, PLdn	WED
2020z	24/07[147 1 60108 456 96 15747 ... 94242 000 000] Fair	Rpt 26/06/2013	(10m21s)	PLdn, Topol, Spectre	WED
2020z	31/07[147 1 13824 6179 61 41174 ... 79574 000 000] Very strong		(7m52s)	Spectre, PLdn	WED
8137kHz0450z	04/07[411 000] Very strong		(2m10s)	PLdn	THU
0450z	11/07[411 000] Very strong		(2m10s)	PLdn	THU
0450z	18/07[411 000] Very strong		(2m10s)	PLdn	THU
0450z	25/07[411 1 60108 456 96 15747 ... 94242 000 000] Very strong	Rpt 27/06/2013	(10m21s)	PLdn	THU
8173kHz2000z	03/07[147 000] Very strong		(2m08s)	Spectre, PLdn	WED
2000z	10/07[147 000] Very strong, PLASMAQRM3		(2m08s)	Spectre, PLdn	WED
2000z	17/07[147 000] Very strong		(2m08s)	Spectre, PLdn	WED
2000z	24/07[147 1 60108 456 96 15747 ... 94242 000 000] Very strong	Rpt 26/06/2013	(10m21s)	PLdn, Topol, Spectre	WED
2000z	31/07[147 1 13824 6179 61 41174 ... 79574 000 000] Very strong		(7m52s)	Spectre, PLdn	WED
9137kHz 0510z	25/07[411 1 60108 456 96 15747 ... 94242 000 000] Very strong	Rpt 27/06/2013	(10m21s)	PLdn	THU
<div> <div>E07a 8173/7473/5773kHz 2000/2020/2040z 24/07 Transcript:</div> <div> 147 1 60108 456 96  15747 24046 99981 00242 24805 19924 87952 93247 01914 93427  42767 48326 62255 18523 73293 28047 92312 43356 52859 03699  23312 37507 42534 56753 59979 92311 78751 97973 03838 87496  37278 77866 92032 89432 73411 85291 42165 97415 48038 98858  88402 08802 42870 10722 19597 07253 63567 44711 33410 22679  55183 34487 77049 47028 41706 19355 80919 21018 44109 02108  20044 51644 71919 49309 07584 18930 76468 82676 53487 72285  36228 90118 36581 74996 07922 49731 68387 38879 28606 01312  02880 04261 44007 04082 80088 62433 42202 39563 26615 90139  98734 58901 23171 33285 22495 94242  000 000    <i>Courtesy Spectre</i> </div> </div> <div> <div>E07a 8173/7473/5773kHz 2000/2020/2040z 31/07 Transcript:</div> <div> 147 1 13824 6179 61  41174 96572 05306 45592 75985 83839 94774 37533 31637 39413  22832 39107 47181 77594 32073 39876 29230 56395 05651 47191  05791 41409 76712 78506 21515 76675 56289 97193 73348 62935  11247 15098 25050 64091 34051 42914 78119 84227 86175 94595  11066 76272 47456 03034 60562 44423 92747 47561 46555 89242  02693 33312 86405 88465 79921 95218 41147 60439 47444 33733  79574  000 000    <i>Courtesy Spectre</i> </div> </div>					

10113kHz155C	From Spectre: E07a message on the 24/07 has a 3 fig code key, while the shorter message on the 31st has a 4 fig code key				FRI
11413kHz1530z	26/07[241 1 13037 7509 54 55597.....88988] 1537z Very Weak			Topol	FRI
12173kHz0800z	06/07[198 000]			GD	SAT
0800z	13/07[198 000] Fair		(2m07s)	GD, PLdn	SAT
0800z	27/07[198 1 13037 7509 54 55597... 88988 000 000] S7		(6m58s)	M8, GD, PLdn	SAT
13973kHz0820z	06/07[198 000] Weak			PLdn	SAT
0820z	13/07[198 000] Strong		(2m07s)	PLdn	SAT
0820z	20/07[198 000] Strong		(2m07s)	PLdn	SAT
0820z	27/07[198 1 13037 7509 54 55597... 88988 000 000] S9		(6m58s)	M8, PLdn	SAT
14873kHz0840z	27/07[198 1 13037 7509 54 55597... 88988 000 000] S8		(6m58s)	M8	SAT
	198 1 13037 7509 54 55597 34613 87626 53420 54146 62556 76449 93365 21558 68407 89352 93211 48546 98705 82915 17634 15229 31686 35248 07257 06055 95345 48449 57175 70627 62848 25317 18224 30291 60931 14338 26156 36202 06909 40989 47398 96950 97546 67684 58404 01212 19289 59975 93120 19316 01040 52312 18061 06176 95094 98138 13930 14003 88988 000 000 <i>Courtesy M8</i>				

### August 2013:

5773kHz2040z	14/08[147 1 13824 6179 61 41174 ... 79574 000 000] 2048z Fair QRN3 QSB3			Spectre	WED
2040z	21/08[147 1 69693 7008 56 35538 ... 39145 000 000] 2047z Strong QRN2 QSB2			Spectre	WED
7437kHz0430z	01/08[411 1 13824 6179 61 41174 ... 79574 000 000] Very strong		(7m52s)	PLdn	THU
0430z	08/08[411 000] Very strong		(2m10s)	PLdn	THU
0430z	15/08[411 1 13824 6179 61 41174 ... 79574 000 000] Very strong, BCQRM2	Rpt 0430z 01/08.	(7m52s)	PLdn	THU
0430z	22/08[411 1 69693 7008 56 35538 ... 39145 000 000] Strong		(7m27s)	PLdn	THU
0430z	29/08[411 000] Very strong		(2m10s)	PLdn	THU

7473kHz2020z	07/08[147 147 147 000] 2022z Fair QRN2 QSB2		Spectre, M8	WED
2020z	14/08[147 1 13824 6179 61 41174 ... 79574 000 000] 2028z Fair	Rpt 2000z 31/07/2013	Spectre	WED
2020z	21/08[147 1 69693 7008 56 35538 ... 39145 000 000] 2027z Strong QRN2 QSB2		Spectre	WED
2020z	28/08[147 147 147 000] 2022z Fair QRN2 QSB2		Spectre	WED
8137kHz0450z	01/08[411 1 13824 6179 61 41174 ... 79574 000 000] Very strong		(7m52s) PLdn	THU
0450z	08/08[411 000] Very strong		(2m10s) PLdn	THU
0450z	15/08[411 1 13824 6179 61 41174 ... 79574 000 000] Very strong	Rpt 0430z 01/08/2013	(7m52s) PLdn	THU
0450z	22/08[411 1 69693 7008 56 35538 ... 39145 000 000] Very strong		(7m27s) PLdn	THU
0450z	29/08[411 000] Very strong		(2m10s) PLdn	THU
8173kHz2000z	07/08[147 000] Very strong		(2m10s) M8,PLdn, Spectre	WED
2000z	14/08[147 1 13824 6179 61 41174 ... 79574 000 000] Very strong	Rpt 2000z 31/07/2013	(7m52s) PLdn, Spectre	WED
2000z	21/08[147 1 69693 7008 56 35538 ... 39145 000 000] Very strong		(7m27s) PLdn, HJH, Spectre	WED
2000z	28/08[147 000] Very strong		(2m08s) HJH, PLdn, Spectre	WED

E07a 8173/7473/5773kHz 2000/2020/2040z 14/08 Transcript:

147 1 13824 6179 61  
41174 96572 05306 45592 75985 83839 94774 37535 31637 39413  
22832 39107 47181 77594 32073 39876 29230 56395 05651 47101  
05091 41409 76712 78506 21515 76675 56289 97193 73348 62935  
11247 15098 25050 64091 34051 42914 78119 84227 86175 94595  
11066 76272 47456 03034 60562 44423 92747 47561 46555 89242  
02693 33312 86405 88465 79921 95218 41147 60439 47444 33733  
79574 000 000  
Courtesy Spectre

E07a 8173/7473/5773kHz 2000/2020/2040z 21/08 Transcript:

147 1 69693 7008 56  
35538 75334 89058 57813 38135 34242 99218 19543 66359 20834  
67401 62575 17891 89891 39189 95995 88129 48250 21592 36750  
05474 38061 50948 39071 41837 25922 28368 18172 58167 34279  
01712 72487 74156 30536 40596 66781 12817 76794 30210 13667  
68192 58135 80418 28815 87943 11218 36068 17494 59063 33094  
97066 60068 54849 89193 74856 39145 000 000  
Courtesy Spectre

9137kHz0510z	01/08[411 1 13824 6179 61 41174 ... 79574 000 000] Very strong		(7m52s) PLdn	THU
0510z	15/08[411 1 13824 6179 61 41174 ... 79574 000 000] Very strong	Rpt 0430z 01/08/2013	(7m52s) PLdn	THU
0510z	22/08[411 1 69693 7008 56 35538 ... 39145 000 000] Very strong		(7m27s) PLdn	THU
10113kHz1550z	16/08[241x3 34430 5015 73 46558 12180 12185.....56095 000 000]1558z S4		M8	FRI
11413kHz1530z	16/08[241x3 34430 5015 73 46558 12180 12185.....56095 000 000]1538z S8		M8	FRI
1530z	30/08[241x3 000.....]1532z S9		M8	FRI
12177kHz0800z	03/08[148 148 148 000]		JO	SAT
0800z	10/08[148 000] Fair, QSB2		(2m12s) GD,PLdn	SAT
0800z	17/08[148 1 34430 5015 73 46558 ... 56095 000 000] Fair, QSB2		(8m51s) PLdn, GD, FR	SAT
0800z	24/08[148 000] Fair		(2m10s) PLdn, GD	SAT
0800z	31/08[148 000] Fair		(2m08s) PLdn	SAT
12213kHz1510z	16/08[241x3 34430 5015 73 46558 12180 12185.....56095 000 000]1518z S9		M8	FRI
1510z	02/08[241 241 241 000]		GD	FRI
1510z	09/08[241 000]		GD	FRI
1510z	23/08[241 000]		GD	FRI
13477kHz0820z	03/08[148 148 148 000]		JO	SAT
0820z	10/08[148 000] Fair		(2m12s) PLdn	SAT
0820z	17/08[148 1 34430 5015 73 46558 ... 56095 000 000] Strong		(8m51s) PLdn, FR	SAT
0820z	24/08[148 000] Weak, QSB3		(2m10s) PLdn	SAT
0820z	31/08[148 000] Weak		(2m08s) PLdn	SAT
14877kHz0840z	17/08[148 1 34430 5015 73 46558 ... 56095 000 000] Fair		(8m51s) PLdn, FR	SAT
	148 1 34430 5015 73 46558 12180 12185 52114 40574 54592 28683 39984 49472 99175 40319 93120 46483 66317 27525 40610 69989 99148 16289 23084 56320 14364 44338 96782 01141 68861 03540 04712 52319 25660 08774 56797 28640 17095 62412 96438 66957 36492 55514 94546 13177 93879 95344 61245 54845 92622 85694 21235 91907 93520 47069 66124 07240 16128 15685 01905 99105 97162 51713 25834 72981 10998 08271 67130 63517 76215 42957 47941 55034 07027 10034 46194 56095 000 000 Courtesy FR			

## E11(III)

### E11 log July/Aug

4909kHz	0900z	13/07 [248/00]	RNGB	SAT
	1445z	31/07 [287/00] R3m Out 1448z Weak QRM1 QSB3	JkC	WED
	1445z	07/08 [287/00] R3m Out 1448z Very Weak QRM1 QSB3	JkC	WED
6280kHz	0820z	11/07 [438/00]	RNGB	THU
8088kHz	1730z	11/07 [416/00]	Gary, Fox	THU
	1730z	01/08 [416/00]	RNGB	THU
	1730z	15/08 [416/00]	RNGB, Spectre	THU
	1730z	22/08 [416/00]	Malc	THU

8530kHz	2000z	02/08 [576/00] Good	RNGB	FRI
9200kHz	2000z	26/07 [576/00] 2003z Very Strong	Tony	FRI
9610kHz	1045z	09/07 [469/00]	RNGB	TUE
	1045z	30/07 [469/00] 1048z Weak	Tony	TUE
	1045z	13/08 [469/00] Good	RNGB, Spectre	TUE
	1045z	20/08 [469/00]	RNGB	TUE
10800kHz	0450z	19/08 [416/00] Good	RNGB	MON
12924kHz	0830z	15/07 [649/00]	RNGB	MON
	0830z	29/07 [649/00] 0833z Very Weak	Tony	MON
	0830z	02/08 [649/00]	RNGB	FRI
	0830z	16/08 [649/00]	RNGB	FRI
	0830z	19/08 [649/00]	RNGB	MON
13424kHz	0645z	09/07 [517/00]	RNGB	TUE
	0645z	11/07 [517/00]	RNGB	THU
	0645z	16/07 [517/00]	RNGB	TUE
	0545z	19/07 [348/00]	RNGB	FRI
	0545z	31/07 [348/00] Weak	RNGB	WED
	0645z	01/08 [517/00]	RNGB	THU
	0545z	02/08 [348/00]	RNGB	FRI
	0645z	06/08 [517/00] Weak	RNGB	TUE
	0645z	13/08 [517/00]	RNGB	TUE
	0545z	14/08 [348/00]	RNGB	WED
	0645z	15/08 [517/00]	RNGB	THU
	0545z	21/08 [348/00] Good	RNGB	WED
	0645z	22/08 [517/00] 0648z Fair QRN3 QSB3	Spectre	THU
13427kHz	0900z	10/07 [534/00]	RNGB	WED
	0900z	15/07 [534/00]	RNGB	MON
	0900z	17/07 [534/00] 0903z Weak QRN3 QSB3	Spectre	WED
	0900z	05/08 [534/00]	RNGB	MON
	0900z	19/08 [534/00]	RNGB	MON
13873kHz	1045z	13/08 [576/00] Strong	RNGB	TUE
14753kHz	0710z	09/07 [633/00]	RNGB	TUE
	0710z	12/07 [633/00]	RNGB	FRI
	0710z	30/07 [633/00]	RNGB	TUE
	0710z	02/08 [633/00]	RNGB	FRI
	0710z	13/08 [633/00]	RNGB	TUE
	0710z	16/08 [633/00] Out 0713z S2	Malc	FRI
	0710z	20/08 [633/00]	RNGB	TUE
14769kHz	1300z	07/08 [133/00] R3m Out 1303z Fair QRM1 QSB2	JkC	WED
	1300z	14/08 [133/00]	RNGB	WED
15632kHz	0745z	06/08 [335/00]	RNGB	TUE
	0745z	13/08 [335/00] QRM	RNGB	TUE
	0745z	15/08 [335/00]	RNGB	THU
	0745z	20/08 [335/00]	RNGB	TUE
16335kHz	1155z	18/07 [718/00] Fair	RNGB	THU
	1540z	28/07 [228/00]	RNGB	SUN
	1155z	07/08 [718/00] R3m Out1158z Weak QRM1 QSB3	JkC	WED
	1540z	12/08 [228/00] 1543z Weak QRN3 QSB3	Spectre	MON
<b>E11a log July/Aug</b>				
8088kHz	1730z	08/08 [41?/35 81657 77448 44337 33078 62010.....63346]	RNGB	THU
10487kHz	1710z	08/07 [959/20 17297 58929 57214 67626 09937.....06125]	RNGB	MON
	1710z	26/07 [951/20 25991 34420 24164 87667 99229.....32116] Very Weak	Tony	FRI
	1710z	29/07 [957/26 85521 ... 84163] Out 1718z Fair QRM1 QSB3	JkC	TUE
	1710z	02/08 [959/20 15958 78329 16813 12041 28219.....81608] Good	RNGB	FRI
	1710z	05/08 [959/20 32789 73737 28816 99292 21152.....12643] ? S5 QSB	Malc	MON
	1710z	12/08 [959/20 89080 25541 49915 57622 18109.....48461]	RNGB	MON
	1710z	16/08 [959/20 12622 85207 61798 56062 40093.....03743]	RNGB	FRI
	1710z	23/08 [959/20 69001 02133 01168 11418 99842.....86722]		
		(on holiday in) Preko - Croatia, very strong	Alex	FRI
12924kHz	0830z	05/08 [646/36 15436 80273 25520 29498 59062.....59938] Good	RNGB	MON
13424kHz	0545z	03/07 [343/35 88369 90294 14763... 88721] Out 0556z Fair QRN2 QSB2	Spectre	WED
	0545z	07/08 [346/31 71363 76547 39676 41271 08236.....]	RNGB	WED
13427kHz	0900z	29/07 [533/30 78875 75643 15590 14257 40003.....19586]	RNGB	MON
	0900z	31/07 [533/30 78875 75643 15590 14257 40003.....19586] Out 0909z S7	Malc	WED

13722kHz 1400z	09/07 [985/10 07728 ... 77254] Out 1405z Fair QRM2 QSB3	JkC	TUE
1400z	13/07 [981/10 81969 18718 21238 77822 67805.....86809] Fair, QSB	RNGB	SAT
1400z	16/07 [982/10 63365 36683 52620 16128 51485.....17139]	RNGB	TUE
1400z	27/07 [982/10 38471 ... 65382] Out 1405z Fair QRM3 QSB2	JkC	SAT
1400z	30/07 [985/10 75382 61753 09534 54069 40324.....06303]	RNGB	TUE
1400z	03/08 [981/10 71065 80004 64617 18463 19413.....41413]	RNGB	SAT
1400z	06/08 [987/10 90911 58663 17428 13263 47043.....96192] Out 1405z S2	Malc	TUE
1400z	13/08 [985/10 52031 13746 14701 13813 15616.....61342]	RNGB, Spectre	TUE
1400z	20/08 [984/10 09519 11818 63064 67433 29601.....36916]	RNGB	TUE
1400z	24/08 [982/10 81103 05940 56509 48509 75163.....57343] Good	RNGB, Alex	SAT

13722kHz 1400z 13/08 Transcript:  
985/10 Attention  
52031 13746 14701 13813 15616  
96682 99412 14014 93975 61342  
Out

13873kHz 1045z	20/08 [575/31 38696 34427 75610 10546 23554.....02843] Good	RNGB	TUE
14518kHz 1810z	09/07 [988/10 40175 14556 69686 67155 16742 .....84652]	JkC, Thomas	TUE
1810z	13/07 [982/10 13201 60936 53690 93095 76578.....24260]	RNGB	SAT
1810z	16/07 [985/10 75803 43257 28933 35570 37447.....18206]	RNGB	TUE
1810z	23/07 [984/10 72485 58910 88876 82979.32915.....43969]	Gary	TUE
1810z	27/07 [980/10 05029 77634 75337 12014 31009.....09628] rpt msg,	Ary, JkC	SAT
1810z	03/08 [983/10 69912 48809 35270 29399 45972.....75502] Out 1815z	Malc	SAT
1810z	06/08 [986/10 47394 04831 88184 02626 13008.....59622] Fair	RNGB, Malc	TUE
1810z	10/08 [982/10 78832 37122 48455 04571 38732.....53548]	RNGB	SAT
1810z	13/08[988/10 Attention 34631 ... 89855 Out] 1816z Fair QRN2 QSB2	Spectre	TUE

988/10 Attention  
34631 16354 19784 25266 16952  
26447 88196 37040 82546 89855  
Out

1810z	17/08 [988/10.....] too weak to copy message	RNGB	SAT
1810z	24/08 [983/10 14447 37577 63919 24762 96879.....06867] Out 1815z	RNGB, Alex	SAT

14753kHz 0710z	16/07 [639/33 60824 02147 12762 13812 32218.....39807]	RNGB	TUE
0710z	09/08 [639/30 66481 96711 79370 42216 57355.....43684]	RNGB	FRI

14769kHz 1300z	20/08 [131/38 90712 55599 27281 50934 31146.....66882] Weak	RNGB	TUE
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15632kHz 0745z	16/07 [334/36 59184 92566 63215 11818 38894.....70457]	RNGB	TUE
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16335kHz 1540z	19/08 [224/30 50877.....] very weak	RNGB	MON
1155z	22/08 [719/36 85923 25307 79985 68480 11400.....39446] Good, some QSB	Malc, RNGB	THU

16388kHz 1110z	29/07 [956/34 74880 80714 90509 61045 53169.....68846] Fair	RNGB, Tony	MON
1110z	05/08 [952/31 05586 30839 92238 47490 34929.....24185] Out 1119z S2	Malc	MON
1110z	19/08 [959/20 99113 87100 93169 24749 78761.....54939]	RNGB	MON
1110z	23/08 [952/31 01737 18545 45206 54101 63319.....58087] Out 1119z S6	Malc	FRI

17441kHz 1045z	09/07 [577/33 54968 33564 01046 89602 69398.....85723] Good	RNGB	TUE
1045z	30/07 [576/00]	RNGB	TUE

**E17z**  
**July2013:**

16780kHz0800z	04/07[674 219 5 48754 65125 41879 84648 42036]	GD	THU
0800z	18/07[674 283 5 73621 90876 23477 38912 56567]	GD	THU

**August2013:**

12850kHz0810z	08/08[674 809 5 46062 68672 97478 29685 20485 809 5 0 0 0 0 0]0816z QSA3/2	JO	THU
0810z	15/08[674 too weak to copy]	M8	THU
0810z	22/08[674 903 5 46062 68672 97478 39685 30485 903 5 00000]0815z S4	M8	THU

16780kHz0800z	08/08[674 809 5 46062 68672 97478 39681 30485]Log via Utwente SDR, U/R on home RX	GD	THU
0800z	15/08 [674 809 5 46062 68672 97478 29685 20485 809 5 00000]	RNGB, M8	THU
	RNGB writes, "E17z on 16780 at 0800 sent same message as last 2 weeks. I would normally expect a different message today with a repeat next week. Operator forgot to load new message I wonder? Other stations in this family are sending new messages today as is normal protocol."		

0800z	22/08[674 903 5 46062 68672 97478 39685 30485 903 5 00000]0805z S2	M8, GD	THU
0800z	29/08[674 00000] Log via Utwen	GD	THU

**E25**  
**July 2013:**

Full logs and analysis from DG:

9400/9390kHz

\*\*\*\*\*JULY\*\*\*\*\*

E25 9400kHz 0841z 02/07 ///CARRIER FOR A FEW MIN. BRIEF TONE THEN REXMTD BC STATION FOR ABOUT A MIN. FOLLOWED BY THE TONE FOR 12MIN. WITH MUSIC AFTER. YL UNK, SONG UNK. "ARABIC" STYLE. BRIEF END TONE. WEAK - 0918z AIK TUE  
E25 9400kHz 1116z 06/07 ///CARRIER WITH FAINT 500KHZ TONE. SOME "ADJUSTMENT" NOISES. VERY STRONG INTRO TONE FOLLOWED BY MUSIC. YL UNK W/CHORUS OF OM, SONG UNK. TUNE SLIGHTLY REMINISCENT OF "JIMMY CRACKED CORN" & "CHIM CIMMEREE". STRONG - 1133z AIK SAT

E25 9400kHz 1017z 08/07 ///MUSIC, UNK, OVER MODULATED."ARABIC" STYLE. INCORPORATES THE ORGAN AND AN ELECTRIC GUITAR. NO VOCALS JUST INSTRUMENTAL. @ 1034 MUSIC STOPS AND COMES BACK @ 1036 W/ A DIFFERENT SONG. YL UNK, SONG UNK, "ARABIC" STYLE. MUSIC CUTS IN & OUT W/AUDIO PROBLEMS. MUSIC CUTS OUT COMPLETELY, END TONE. VERY STRONG - 1041z AIK MON

E25 9400kHz 1007z 10/07 ///TONE INTRO UNTIL 1021z. MUSIC UNK, PIANO PIECE. MUSIC CUTS OUT A FEW TIMES SOME AUDIO PROBLEMS. END TONE. STRONG - 1036z AIK WED

E25 9400kHz 1016z 11/07 ///STRONG TONE INTRO +7MIN. MUSIC, SUSPECTED NAJAT AL-SAGHRIA - SONG TITLE UNK. SEVERAL BREAKS IN MUSIC AND IN XMSN. STRONG - 1038z AIK THU

E25 9400kHz 0921z 12/07 ///TONE INTRO WITH BREIF BREAK IN XMSN. FOLLOWED BY MUSIC W/END TONE. YL, POSSIBLY OUM KHULTOM, SONG UNK. WEAK - 0947z AIK FRI

E25 9400kHz 0954z 16/07 ///CARRIER W/BRIEF TONE NEAR EOT. WEAK - 0956z AIK TUE

E25 9400kHz 1025z 16/07 ///CARRIER W/TONE INTRO. MUSIC, SUSPECTED NAJAT AL-SAGHRIA - SONG UNK. BAD AUDIO QUALITY. WEAK - 1039z AIK TUE

E25 9390kHz 0740z 17/07 ///JUMP IN FREQUENCY, -10kHz FROM USUAL SPOT. XMTR BRIEFLY ON AND OFF WITH SOME "TUNING" NOISE. FAIR - 0742z AIK WED

E25 9390kHz 0853z 17/07 ///JUMP IN FREQUENCY, -10kHz FROM USUAL SPOT. CARRIER UP, BRIEF TONE THEN COMES BACK FOR ANOUT 5MIN FOLLOWED BY A ABDEL HALIM HAFEZ SONG OF UNK TITLE WITH LOT OF "HABIBI". AUDIO GLITCHES ABOUND AND QUALITY IS MARGINAL AT TIMES. SPORADIC DROP OUTS AND FADES. BRIEF END TONE. WEAK - 0916z AIK WED

E25 9400kHz 0840z 20/07 ///XMTR ON AND OFF SEVERAL TIMES. ONLY CARRIER PRESENT. FAINT TONE. VERY WEAK - 0916z AIK SAT

E25 9390kHz 0759z 25/07 ///JUMP IN FREQUENCY///JAMMING ?, CARRIER ON THEN AFTER 20SECS WHAT APPEARS TO BE "OTHR" 90-DEGREES OUT OF PHASE, BLANKS OUT ANY SIGNS OF THE UNDERLYING XMSNS. VERY STRONG - 0815z AIK THU

E25 9400kHz 1022z 26/07 ///FAINT TONE. SAME XMTR SIGNATURES AS PREVIOUS 9400kHz XMSNS. VERY WEAK - 1042z AIK FRI

E25 9400kHz 1046z 27/07 ///TONE INTRO +12MIN. MUSIC- OUM KHULTOM, SONG UNK. BRIEF END TONE. WEAK - 1120z AIK SAT

E25 9400kHz 0845z 28/07 ///TONE. WEAK - 0859z AIK SUN

E25 9400kHz 0901z 28/07 ///NO TONE. MUSIC- ABDEL HALIM HAFEZ, SONG UNK. NO END TONE. FAIR - 0922z AIK SUN

E25 9400kHz 0849z 30/07 ///CARRIER VISIBLE. VARIOUS "ADJUSTMENT" NOISES. USUAL 500kHz TONE THROUGH THE DURATION. REGULAR END TONE. FAIR - 0856z AIK TUE

E25 9400kHz 0910z 30/07 ///TONE INTRO +3MIN. MUSIC- ABDEL HALIM HAFEZ, SONG UNK. END TONE. WEAK - 0926z AIK TUE

E25 9400kHz 0655z 31/07 ///CARRIER VISIBLE. VARIOUS "ADJUSTMENT" NOISES. FAINT 500kHz TONE PRESENT. WEAK - 0657z AIK WED

E25 9400kHz 0953z 31/07 ///TONE INTRO UNTIL 1026z W/SOME "ADJUSTMENT" NOISES. XMTR ON & OFF. AT 1026z, MUSIC STARTS. INSTRUMENTAL PIANO PIECE, NO VOCALS, SONG UNK. END TONE WEAK - 1037z AIK WED

\*\*\*\*\*AUGUST\*\*\*\*\*

E25 9400kHz 1117z 03/08 ///XMTR ON-OFF WITH "ADJUSTMENT" NOISES. FAIR - 1118z AIK SAT

E25 9400kHz 1119z 03/08 ///YL UNK W/CHORUS OF OM, SONG UNK. TUNE SLIGHTLY REMINISCENT OF "JIMMY CRACKED CORN" & "CHIM CIMMEREE". SAME SONG AS THAT ON 06/07 WEAK - 1130z AIK SAT

E25 9400kHz 0839z 04/08 ///XMTR ON-OFF 15 SEC. CARRIER ONLY WITH USUAL XMTR SIGNATURE. WEAK - 0839z AIK SUN

E25 9400kHz 1018z 05/08 ///\*\*\*\*\*LOST RECORDING\*\*\*\*\*- 1044z AIK MON

E25 9400kHz 1046z 05/08 ///TONE ABOUT 11MIN.. MUSIC STARTS @ 1030z RUNS UNTIL EOXMEN. SONG UNK, NO VOCALS - INSTRUMENTAL. "ARABIC" STYLE ALSO USES ORGAN. FAIR - 1047z AIK MON

E25 9400kHz 1006z 07/08 ///XMTR ON AND OFF 5 TIMES. XMSN SEGMENTS VARY IN LENGTH. USUAL CARRIER W/ USUAL NOISES/SIGNATURE. FAIR - 1036z AIK WED

E25 9400kHz 0932z 08/08 ///A SERIES OF SHORT, CARRIER ONLY XMSNS VERY WEAK - 1017z AIK THU

E25 9400kHz 0912z 09/08 ///TONE INTRO & END TONE. MUSIC - YL UNK, SONG UNK. USUAL "ARABIC" STYLE. VERY WEAK - 0948z AIK FRI

E25 9400kHz 0746z 13/08 ///A SERIES OF SEVERAL XMSNS. A REBROADCAST BC STATION WITH AN OLD LADY'S VOICE. MUSIC - YL UNK, SONG UNK. USUAL "ARABIC" STYLE. - - 1045z AIK TUE

E25 9400kHz 0834z 16/08 ///A SERIES OF SEVERAL XMSNS. USUAL ADJUSTMENT NOISES FOLLOWED BY ABDEL HALIM HAFEZ, SONG UNK THEN TONE. FOLLOWS WITH MORE MUSIC, ARABIC STYLE W/ ORGAN THEN ANOTHER BREAK WITH MORE MUSIC, UNK. TOO WEAK TO DISCERN. WEAK - 0917z AIK FRI





Also:

E25 6140kHz 0944z 21/07 [350 1082 1410 7021 1112 5571 (5)598 7278 2722 2?52  
844(2) 3(5)0(8) 1410] 0950z very weak, AM, OM live, yelling, echo present, EOM  
EOT and a unid word

Numbers in parentheses may be erroneous. Signal was very weak; it took me a while to ensure the presence of a voice transmission!

MG SUN

UNID 9400 kHz 0948z 24/07 Strong carrier with weak tone, 1015z weak music (Abdel  
Halim Hafez), 1018z louder audio, 1020z tone, QRT 1024z

MG WED

Then, the next day, a transmission on 6140 kHz with quality substantially better  
than of 21/07:

E25a

6140kHz 0800z 25/07 [117 3] 0805z AM, QSA3

MG THU

#### August observations from MG:

UNID 9400 kHz 0947z 05/08 carrier QSA5 0948z

MG MON

UNID 9400 kHz 1019z 05/08 carrier, tone, 1030z music, QRT 1045z, low modulation QSA5

MG MON

E25a 6140 kHz 1113z 06/08 [887 4] 1117z QSA3

MG TUE

UNID 9400 kHz 1018z 07/08 carrier for a couple of seconds QSA5

MG WED

UNID 9400 kHz 1020z 07/08 carrier QSA5, QRT 1037z

MG WED

6140 kHz 08/08 0827z carrier i.p. QRT 0828z

MG THU

E25 6140 kHz 14/08 0804z carrier, OM prayer (prob. same as 12/05/2013), 0820z Spider Solitaire sounds, and prayer,  
0900z blank carrier, QRT 0925z QSA3, QSB to QSA1

MG WED

At the same time, while 6140 was in progress,

UNID 9400 kHz 0827z 14/08 carrier, music then blank carrier and music sessions with breaks and tone till 0920z,  
weak modulation, QSA5

MG WED

I have noted the presence of strong carriers on 9400 kHz at ~1401z lasting ~1min but these might be related to a BC station.

#### G06

As expected, we start with RNGB's logs and then move on to those posted by others:

G06 July log:

Mon 8th	08:00	6948	'215' 222? 122 79446 27082 22761 76758 20033.....
	17:00	5476	'564' 00000
Mon 15th	08:00	6948	'215' 222? 122 79446 27082 02761 76758 20033.....
Mon 29th	08:00	6948	'215' 222? 102 79446 27082 02761 76758 20033.....

G06 August log:

Friday 2nd	20:00	9268	'239' 00000
Mon 5th	08:00	6948	'215' 00000
Thurs 8th	18:30	6887	'842' 542 15 83642 38446 03811 93702 04845 68310.....38221
Friday 9th	19:30	5943	'218' 629 15 72014 82038 93921 73014 57391.....22833
Mon 12th	17:00	5476	'564' 00000
Friday 16th	19:00	11423	'239' 00000
Mon 19th	08:00	6948	'215' 00000
Thurs 22nd	18:30	6887	'842' 542 15 83642 38446 03811 93702 04845 68310.....38221

#### July2013:

5783kHz1800z	01/07[564 00000] 1803z Very Weak	Topol	MON
1800z	08/07[564 00000(s)] Fair	PLdn	MON
5943kHz1930z	12/07[218 987 15 72819 ... 89110 987 15 00000(s)] Strong	(7m04s) PLdn, FR	FRI
1930z	26/07[218 987 15 72819 ... 89110 987 15 00000(s)] Strong, BCQRM2	(7m04s) PLdn	FRI
6887kHz1830z	11/07[842 799 15 62738 ... 82901 799 15 00000(s)] Strong	(7m01s) Spectre, FR, JkC	THU
	842 799 15 62738 92012 00637 88411 73382 93745 99473 89311 00379 40143 67291 70663 83912 77281 82901 799 15 00000 Courtesy FR, JkC Spectre		
1830z	25/07[842 799 15 62738 ... 82901 799 15 00000]1838z Strong QRM2 QSB1	JkC, PLdn	THU
6948kHz0800z	01/07[215 too weak to copy message]	M8	MON
0800z	15/07[215 + msg txt] Very weak	M8, PLdn	MON

9268kHz2000z	05/07[239 00000]2004z Strong QRM1 QSB1		JkC, HJH, PLdn	FRI
11423kHz1900z	05/07[239 00000]2004z Strong QRM1 QSB1		JkC, HJH, PLdn	FRI
<b><u>August2013:</u></b>				
5476kHz1700z	05/08[564 00000(s)] Weak	(3m45s)	PLdn, M8	MON
1700z	12/08[564 00000(s)] Fair	(3m21s)	JkC, PLdn MON	
5783kHz1800z	05/08[564 00000(s)] Fair to strong	(3m45s)	PLdn, M8	MON
1800z	12/08[564 00000(s)] Strong	(3m21s)	JkC, PLdn	MON
5943kHz1930z	09/08[218 629 15 72014 ... 22833 629 15 00000]1937z Fair QRM1 QSB1 QRN3		JkC	FRI
	218 629 15 72014 82038 93921 73014 57391 58302 46381 93048 47231 83921 92344 74651 54630 83921 22833 629 15 00000 <i>Courtesy JkC</i>			
1930z	23/08[218 629 15 72014 ... 22833 629 15 00000(s)] Very strong	(6m28s)	PLdn, npl	FRI
6887kHz1830z	08/08[842 542 15 83642 ... 38221 542 15 00000(s)] Very strong	(6m46s)	PLdn	THU
1830z	22/08[842 542 15 83642 ... 38221 542 15 00000(s)] Very strong	(6m46s)	PLdn	THU
6948kHz0800z	05/08[215 00000] Medium signal, moderate/strong noise		FR, M8	MON
0800z	26/08[215 00000] Very weak	(3m22s)	PLdn	MON
9268kHz2000z	02/08[239 00000] Strong	(4m12s)	PLdn, HJH	FRI
2000z	16/08[239 00000] Very strong	(4m12s)	PLdn	FRI

#### **Finally, PoSW's logs:**

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

11-July-13:- 6,887 kHz, calling "842", DK/GC "799 799 15 15". Weak BC station on 6,885, removed by using receiver in USB mode.

25-July-13:- 6,887 kHz, "842" and "799 799 15 15" again. I thought the delivery of the 5Fs was somewhat slower than is usual.

8-Aug-13:- 6,887 kHz, continuing on the summertime frequency, call "842", DK/GC "542 542 15 15". S9 signal, weak BC on 6,885.

22-Aug-13:- 6,887 kHz, "842" and "542 542 15 15", started approx. 45 seconds before the half-hour.

##### Friday 1930 UTC Schedule Following the Second + Fourth Thursdays in the Month:-

12-July-13:- 5,943 kHz, call "218", DK/GC "987 987 15 15", good signal on a clear frequency inside the 49 metre BC band.

26-July-13:- 5,943 kHz, "218" and "987 987 15 15" again. Interference from a strong BC station on 5,945 kHz, was not there last time.

9-Aug-13:- 5,943 kHz, call "218", DK/GC "629 629 15 15". S9 signal, no sign of the broadcast station which caused problems on 26-July.

23-Aug-13:- 5,943 kHz, "218" and "629 629 15 15", S9 signal with no broadcast interference.

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

1-July-13:- 1700 UTC, 5,476 kHz, "564 564 564 00000". Very weak signal, only became audible approx. 1702z.

1800 UTC, 5,783 kHz, second sending, stronger signal, S4 to S5.

Same frequencies as in May and June.

8-June-13:- 1800 UTC, 5,783 kHz, "564 564 564 00000".

5-Aug-13:- 1700 UTC, 5,476 kHz, "564 564 564 00000", S5, local QRM a problem but clear copy with receiver in USB mode.

1800 UTC, 5,783 kHz, second sending, S6 to S7. Both transmissions started approx 25 seconds before the hour.

12-Aug-13:- 1700 UTC, 5,476 kHz, and 1800 UTC, 5,783 kHz, both started 25 seconds early again, "564 564 564 00000".

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

5-July-13:- 1900 UTC, 11,423 kHz, "239 239 239 00000". Signal strength varying S7 to S8.

2000 UTC, 9,268 kHz, second sending, S9+. Same frequencies as in June.

19-July-13:- 1900 UTC, 11,423 kHz, and 2000 UTC, 9,268 kHz, both very strong S9+ signals, "239 239 239 00000".

2-Aug-13:- 1900 UTC, 11,423 kHz, "239 239 239 00000", S9+.

2000 UTC, 9,268 kHz, second sending, also S9+.

16-Aug-13:- 1900 UTC, 11,423 kHz, and 2000 UTC, 9,268 kHz, "239 239 239 00000".

Both S9+, seems to be stuck in a bit of a rut!

## G11

### **G11 log July/Aug**

3815kHz	2000z	07/07 [262/00] Fair	RNGB	SUN
	2000z	14/07 [262/00]	RNGB	SUN
	2000z	28/07 [266/38 97350 17196 24899 54952 08692.....51188]	RNGB	SUN
	2000z	02/08 [269/38 50559 95785 42238 65235 54868.....55237] Fair	RNGB	FRI
	2000z	04/08 [269/38 50559 etc] repeat of Friday	RNGB	SUN
	2000z	18/08 [262/00]	RNGB	SUN
5815kHz	1755z	09/07 [270/00] R3m Ende 1758z Strong QRM1 QSB1	JkC	TUE
	1755z	16/07 [270/00]	RNGB	TUE
	1755z	28/07 [270/00]	RNGB	SUN
	1755z	04/08 [270/00]	RNGB	SUN
	1755z	06/08 [270/00]	RNGB	TUE
	1755z	13/08 [277/32 Achtung 23976 ... 67307 Ende] 1805z Fair QRN3 QSB3	Spectre	TUE
G11 5815kHz 1755z 13/08 Transcript:				
277/32 Achtung				
23976 61192 73657 64386 61289 65590 52957 84294 87531 21483				
07587 28005 19608 47195 36807 82713 85731 82917 12417 75441				
34799 83819 96513 42973 54934 49988 79759 02229 56551 62290				
02074 67307 Ende				
Courtesy Spectre				
	1755z	18/08 [277/32 23976 61192 73657 64386 61289.....67307]	RNGB	SUN
	1755z	20/08 [270/00]	RNGB	TUE

## S06/S06s Reports

### **PoSW followed by RNGB's**

No big surprises with the S06 Russian OM, transmissions of the four minute "no message" variety accounting for most of the output, as always. Makes you wonder why Ivan wastes all those watts in warming up the ionosphere!

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

6-July-13:- 1600 UTC, 8,123 kHz, "764 764 764 00000". S7 to S8

13-July-13:- 1605 UTC, 6,977 kHz, "764 764 764 00000" S7, still on the same summertime frequencies used in May and June.

20-July-13:- 1605 UTC, 6,977 kHz, "764 764 764 00000", weak signal but clear copy with the receiver in USB mode.

27-July-13:- 1605 UTC, 6,977 kHz, "764 764 764 00000".

17-Aug-13:- 1605 UTC, 6,977 kHz, "764 764 764 00000", peaking S7 to S8 with QSB.

24-Aug-13:- 1600 UTC, 8,123 kHz, "764 764 764 00000", S9, over-riding an "XJT".

Saturday Weekly 1930 or 1935 UTC Schedule - although throughout the months of May, June and July I have only heard it at 1935 UTC on those Saturdays when I have been near a radio.

6-July-13:- 1935 UTC, 6,772 kHz, "426 426 426 00000", strong signal peaking over S9.

13-July-13:- 1935 UTC, 6,772 kHz, "426 426 426 00000", S9.

17-Aug-13:- 1935 UTC, 6,772 kHz, "426 426 426 00000", S9 signal.

24-Aug-13:- 1935 UTC, 6,772 kHz, "426 426 426 00000", S9+, very strong.

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

6-July-13:- 1900 UTC, 9,943 kHz, "857 857 857 00000", S9 signal, strong DRM type signal on HF side.  
2000 UTC, 8,119 kHz, second sending, S8. These frequencies used in May and June.

17-Aug-13:- 1900 UTC, 9,943 kHz, "857 857 857 00000". S9 signal on a clear frequency, no sign of the DRM which has carved up this one in the past. Normal AM broadcaster started up on 9,940 kHz about half way through S06's spiel, interval signal and "Trans World Radio" identifier in US English, went into programme in unidentified lingo, possibly African, shortly afterwards.  
2000 UTC, 8,119 kHz, second sending, S9 on a clear frequency.

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

6-July-13:- 1900 UTC, 7,643 kHz, "319 319 319 00000", S6 to S7, strong FSK/RTTY station on HF side.  
2000 UTC, 6,833 kHz, second sending, S9, also same frequencies as in May and June.

17-Aug-13:- 1900 UTC, 7,643 kHz, "319 319 319 00000", strong FSK-RTTY on HF side, I think this is one of several transmissions from the Hamburg radio-teletype meteorological station. Surprised an advanced country like Germany is using this mode in this day and age!  
2000 UTC, 6,833 kHz, second sending, S9 to S9+.

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

1-July-13, Monday:- 1900 UTC, 7,982 kHz, “349 349 349 00000”, peaking S9+.

8-July-13, Monday:- 1905 UTC, 6,984 kHz, “349 349 349 00000”, S9 signal.

11-July-13, Thursday:- 1905 UTC, 6,984 kHz, “349 349 349 00000”, S9.

15-July-13, Monday:- 1905 UTC, 6,984 kHz, “349 349 349 00000”, S9+.

18-July-13, Thursday:- 1905 UTC, 6,984 kHz, “349 349 349 00000”, S9+.

22-July-13, Monday:- 1905 UTC, 6,984 kHz, “349 349 349 00000”, S9+.

25-July-13, Thursday:- 1900 UTC, 7,982 kHz, “349 349 349 00000”, S9+.

1-Aug-13, Thursday:- 1905 UTC, 6,984 kHz, “349 349 349 00000”, S9+.

5-Aug-13, Monday:- 1905 UTC, 6,984 kHz, “349 349 349 00000”, S9+.

8-Aug-13, Thursday:- 1905 UTC, 6,984 kHz, “349 349 349 00000”, the usual S9+.

15-Aug-13, Thursday:- 1905 UTC, 6,984 kHz, - guess what? “349 349 349 00000”, with an S9+ signal.

19-Aug-13, Monday:- 1905 UTC, 6,984 kHz, S9+, “349 349 349 00000”.

22-Aug-13, Thursday:- 1905 UTC, 6,984 kHz, “349 349 349 00000”, S9+ as always.

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

8-July-13:- 1815 UTC, 15,855 kHz, “376 376 376 00000”. Peaking S9 with deep QSB, found approx 1 minute into the transmission.  
1915 UTC, 13,505 kHz, second sending, S8.

22-July-13:- 1815 UTC, 15,850 kHz, “376 376 376 00000”.

1915 UTC, 13,505 kHz, second sending.

12-Aug-13:- 1815 UTC, 15,805 kHz, “260 260 260 00000”, peaking S9. Pre-transmission warm-up, carrier with tone, noted 1803z, single Russian “260” shortly afterwards.

1915 UTC, 13,380 kHz, second sending, up to S9+.

**And something a bit different, an S06c**, one 5F group repeated for four minutes, seems to be daily at 1900 UTC, 8 PM in the UK:-

21-Aug-13, Wednesday:- 1904 UTC, just before, 9,056 kHz, S06 OM voice repeating 5F group “11179” over and over, last few second of a transmission, sounded distorted but clear enough in USB mode.

22-Aug-13, Thursday:- 1900 UTC, 9,056 kHz, “11179” again, four minutes worth.

23-Aug-13, Friday:- 1900 UTC, 9,056 kHz, “11179” - what's so wonderful about 11179 then, Ivan? Somewhat distorted compared with your regular S06 OM voice.

This was starting to look like a daily schedule, but there was no sign of it on Saturday 24-Aug.

#### **S06 July log:**

Sat13th	16:05	6977	‘764’ 00000
	19:35	6772	‘426’ 00000

#### **S06s July log:**

##### **Monday**

1st/8th	0830/40	8221/9353	‘371’ 258 6 78563 48901 39275 44091 57476 56401
15th/22nd			‘371’ 940 5 56423 80945 13218 67453 98056
1st/8th	0900/10	16380/14835	‘872’ 940 5 47585 40132 78960 56342 29867
15th/22nd			‘872’ 509 6 67453 89674 23127 56473 89041 45423
1st/8th	1200/10	10230/12165	‘831’ 509 6 33281 20795 47342 10768 94523 10185
15th/22nd			‘831’ 570 6 21767 53672 11834 81022 36903 41412

##### **Tuesday**

2nd/9th	0600/10	16735/15230	‘438’ 971 5 47592 29687 12839 94053 38765
16th/23rd			‘438’ 205 6 47665 94092 48521 63888 92060 11749
2nd/9th	0700/15	5430/6780	‘374’ 598 6 77159 95225 84090 09531 24042 75956
16th/23rd			‘374’ 521 6 21538 02425 04794 25304 85546 52738
2nd/9th	0730/40	7365/11655	‘427’ 918 5 74638 10987 37899 46392 98236
16th/23rd			‘427’ 863 5 36755 41778 62848 00884 52454
2nd/9th	0800/10	14373/12935	‘352’ 849 6 78690 35460 65743 88921 34721 68797
16th/23rd			‘352’ 861 7 42750 14163 59864 32505 56543 15881 82045
2nd/9th	1000/10	6440/5660	‘893’ 461 5 12781 56997 56881 44093 23568
16th/23rd			‘893’ 276 5 63477 78599 92519 91785 33263
2nd/9th	1500/10	6666/7744	‘537’
16th/23rd			‘537’ 280 6 66603 58545 12818 82457 27629 17086

##### **Wednesday**

3rd/10th	0730/40	12110/14977	‘745’ 890 6 21767 53672 11834 81022 36903 41412
17th/24th			‘745’ 230 6 91874 45855 57556 85660 24935 30414
3rd/10th	0820/30	6755/5835	‘471’ 892 5 45025 09467 77512 55655 22871
17th/24th			‘471’ 239 5 21538 01316 46524 33453 61385
3rd/10th	0840/50	10120/9670	‘328’ 416 5 05899 50387 45847 23013 89758

17th/24th			‘328’ 401 5 53534 24704 80937 00615 51541
3rd/10th	1000/10	14580/16020	‘729’ 580 6 33796 13577 74526 46647 79302 51463
17th/24th			‘729’ 804 5 29245 28842 82264 14255 81545
3rd/10th	1230/40	7545/8220	‘967’ 234 5 88280 84116 53718 78927 34694
17th/24th			‘967’ 215 8 40521 88695 78122 65351 23435 65646 29319 44564

#### Thursday

4th/11th E17z	0800/10	16780/12850	‘674’ 219 5 48754 65125 41879 84648 42036
18h/25th			‘674’ 283 5 73621 90876 23477 38912 56567
4th/11th	0900/10	12952/13565	‘167’
18th/25th			‘167’ 429 5 46372 10998 23468 93856 10109
4th/11th	0900/10	5320/4845	‘624’ 539 7 88620 58069 61732 74537 57440 10597 23521
18th/25th			‘624’ too weak to copy
4th/11th	0930/40	9255/7630	‘314’
18th/25th			‘314’ 876 5 46062 68672 97478 39685 30485
4th/11th	1200/10	13145/14535	‘425’ 986 7 53058 52693 37241 46721 34470 17711 55336
18th/25th			‘425’ 817 6 92837 56743 09892 34610 89876 46327

#### Friday

5th/12th	0600/10	8720/10415	‘934’ 865 7 42046 54009 30641 80278 96048 81613 95488
19th/26th	0600/10		‘934’ 586 7 92836 47478 39212 09897 34286 10293 84756
5th/12th	0600/10	7845/9125	‘196’ 248 5 83793 41308 42233 82667 93190
19th/26th			‘196’ 423 5 87642 98123 67453 92830 12678
5th/12th	0800/10	7650/6125	‘278’
19th/26th			‘278’ 413 5 67453 89756 12316 90674 45319
5th/12th	0930/40	10290/9655	‘516’
19th/26th			‘516’ 274 8 64523 90656 34127 67453 76971 23221 56534 89423

#### Saturday

6th	1200/10	12460/10250	‘254’ 987 6 74658 39120 90674 10584 45732 87691
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#### S06 August log:

Thurs 1st	19:05	6984	‘764’ 00000
Sat 3rd	19:00	9943	‘857’ 00000
	19:00	7643	‘319’ 00000
	19:35	6772	‘426’ 00000
	20:00	6833	‘319’ 00000
	20:00	8119	‘857’ 00000
Tues 6th	18:00	7315	‘491’ 00000
Sat 10th	19:35	6762	‘426’ 00000
Mon 12th	18:15	15805	‘260’ 00000
Tues 13th	18:00	7315	‘491’ 00000
Sat 17th	16:05	6977	‘764’ 00000
	19:35	6772	‘426’ 00000
Sat 24th	16:00	8123	‘764’ 00000
	19:35	6772	‘426’ 00000

#### S06s August report:

ID 471 found null sending from the 21st on 7441/8215/8732/9320/10222 and 11096kHz  
ID 934 moved up a couple of megs at beginning of month to 11742/12355

#### S06s August log:

#### Monday

2nd/9th	0830/40	8221/9353	‘371’ 298 5 88620 58069 61732 74537 57440
16th/23rd			‘371’ 942 5 09081 76446 33829 82375 67761
2nd/9th	0900/10	16380/14835	‘872’ 504 6 84116 53718 78927 23694 06123 88280
16th/23rd			‘872’ 931 5 83746 22908 47881 23459 67857
2nd/9th	1200/10	10230/12165	‘831’ 579 6 26188 11851 98795 71473 05769 48941
16th/23rd			‘831’ 549 6 82004 57253 38544 44663 23025 33275

#### Tuesday

6th/13th	0600/10	16735/15230	‘438’ 901 5 71049 67332 42779 39769 96612
20th/27th			‘438’ 921 5 54614 92621 15454 16375 38636
6th/13th	0700/15	5430/6780	‘374’ 519 6 16945 80744 86200 84706 74154 61736
20th/27th			‘374’ 825 6 00615 57541 43717 60175 58841 92080
6th/13th	0730/40	7365/11655	‘427’ 801 5 96320 36793 53038 76342 15871
20th/27th			‘427’ 809 5 46062 68672 97478 39685 30485
6th/13th	0800/10	14373/12935	‘352’ 401 6 24935 30414 67646 61560 78532 69519
20th/27th			‘352’ 907 6 21767 53672 11834 81022 36803 41412
6th/13th	1000/10	6440/5660	‘893’ 217 5 42997 94184 47374 74154 08531
20th/27th			‘893’
6th/13th	1500/10	6666/7744	‘537’ 216 8 52401 63919 92699 14600 74248 48754 65123 41879
20th/27th			‘537’

#### Wednesday

7th/14th	0730/40	12110/14977	‘745’ 819 6 17269 67813 01997 56473 92815 77236
21st/28th			‘745’ 830 6 45356 05781 33422 66164 05596 66532
7th/14th	0820/30	6755/5835	‘471’ 289 5 19283 67432 00172 35436 78257
7th/14th	0840/50	10120/9670	‘328’ 940 5 92746 34510 91213 89763 56473
21st/28th			‘328’ 971 5 32354 94675 15974 52411 92085
7th/14th	1000/10	14580/16020	‘729’ 508 6 38770 01731 75610 50757 76869 53521

21st/28th			'729' 453 6 94316 38545 59445 52484 69056 55841
7th/14th	1230/40	7545/8220	'967' 503 8 57556 86660 24935 30414 76747 61560 78555 57455
21st/28th			'967' too weak to copy

#### Thursday

1st/8th E17z	0800/10	16780/12850	'674' 809 5 46062 68672 97478 39685 30485
15th/22nd			'674' 809 5 46062 68672 97478 39685 30485
1st/8th	0900/10	12952/13565	'167' 409 5 21767 53672 11834 81022 36903
15th/22nd			'167' 832 5 52401 63919 92699 14600 74248
1st/8th	0900/10	5320/4845	'624' 851 7 33796 13677 74526 46647 79302 53516 25616
15th/22nd			'624' 503 7 56487 75590 25514 56188 38770 43717 60175
1st/8th	0930/40	9255/7630	'314' 860 5 45323...
15th/22nd			'314' 502 6 33796 13577 74526 46647 79402 53516
1st/8th	1200/10	13145/14535	'425' 861 7 42046 54009 30641 80278 96048 81613 95488
15th/22nd			'425' 936 7 88620 58069 61732 74537 57440 10597 23521

#### Friday

2nd/9th	0600/10	11742/12355	'934' 570 6 86509 54276 33031 59985 98670 38547
16th/23rd			'934' 568 7 20534 11160 43494 37638 16070 48834 87213
2nd/9th	0600/10	7845/9125	'196' 278 5 85626 93735 10206 47326 85227
16th/23rd			'196' 402 5 14163 59864 32505 56543 15881
2nd/9th	0800/10	7650/6125	'278' 401 5 84209 94224 33240 61135 61732
16th/23rd			'278' 914 5 40625 09467 77512 66566 22871
2nd/9th	0930/40	10290/9655	'516' 279 8 56891 51197 34892 34598 76799 12111 76553 98789
16th/23rd			'516' 892 7 53534 24704 80937 00615 51541 43717 60175

#### Saturday

3rd	1200/10	12460/10250	'254' 987 6 74658 39120 90674 10584 45732 87691
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#### Onto others:

#### S06

#### July2013:

6833kHz2000z	20/07[319 00000] Fair	KW	SAT
6975kHz1905z	07/07[349 00000]	LW	THU
6977kHz1605z	27/07[764x3 000.....]1609z S6	M8	SAT
6984kHz1905z	11/07[349 00000] Very strong signal, weak/moderate noise	FR, JkC	THU
1905z	15/07[349 349 349 00000] Good signal	LWB	MON
1905z	22/07[349 R3 00000 R4m]1909z Strong QRM1 QSB1	JkC	MON
1905z	29/07[349 349 349 00000] 1910z WEAK	CH10	MON
7982kHz1900z	01/07[349x3 000.....]1902z S9	M8	MON
1900z	25/07[349 R3 00000]1904z Strong QRM1 QSB1	JkC	THU
8119kHz2000z	20/07[857 00000] Fair/Strong	KW	SAT
13505kHz1915z	22/07[376 R3 00000 R4m]1919z Strong QRM1 QSB1	JkC	MON
14812kHz1900z	01/07[845x3 1 820 88 17457 23344.....000 000]1911z S9	M8	MON
15850kHz1815z	22/07[376 R3 00000 R4m]1819z Strong QRM2 QSB1	JkC, Topol	MON

#### August2013:

6772kHz1935z	17/08[425x3 00000.....]1939z S5	M8	SAT
6775kHz1935z	03/08[426x3 00000.....]1939z S9+10	M8	SAT
6833kHz2000z	03/08[319x3 00000.....]2004z S9+10	M8	SAT
2000z	17/08[319x3 00000.....]2004z S6	M8	SAT
6977kHz1605z	03/08[764x3 00000.....]1609 S1	M8	SAT
6984kHz1905z	01/08[349 00000] Very strong signal, moderate noise	FR	THU
1905z	12/08[349 00000]1909z Strong QRM1 QSB1	JkC, Spectre	MON
1905z	15/08[349.....00000]1909z S9+20	M8	THU
1905z	22/08[349x3 00000]1909z S9+10	M8	THU
1905z	26/08[349 R3 00000]1909z Strong QRM1 QSB1	JkC	MON
1905z	29/08[349 00000] 1909z Fair QRN3 QSB3	Spectre	THU
7315kHz1800z	06/08[491x3 00000.....]1803z S2 (Buried in RCI transmission]	M8	TUE
7643kHz1900z	03/08[319x3 00000.....]1904z S9	M8	SAT
1900z	17/08[319x3 00000.....]1904z S4	M8	SAT
8119kHz2000z	03/08[857x3 00000.....]2004Z S9+10	M8	SAT
2000z	17/08[857x3 00000.....]2004z S5	M8	SAT
8144kHz1120z	18/08[218 weak not readable]	M8	SUN

9943kHz1900z 1900z	03/08[857x3 00000.....]1904Z S9+10 17/08[857x3 00000.....]1904z S9	M8 M8	SAT SAT
13380kHz1915z 1915z	12/08[260 00000]1819z Strong QRM1 QSB1 26/08[260 R3 00000]1919z Strong QRM1 QSB1	JkC JkC	MON MON
15805kHz1815z 1815z	12/08[260 00000]1819z Strong QRM1 QSB1 26/08[260 R3 00000]1819z Strong QRM1 QSB1	JkC JkC	MON MON
<b><u>S06c</u></b>			
14663kHz1047z	13/08[I/P 11097]1049z Fair QRM2 QSB1	JkC	TUE
16277kHz1038z	13/08[I/P 11097]1039z Fair QRM1 QSB2	JkC	TUE
<b><u>S06s</u></b> <b><u>July2013:</u></b>			
5835kHz0830z 0830z	03/07[too weak to copy] 31/07[471x3 00000.....]0832z S1	M8 M8	WED WED
6755kHz0820z 0820z	03/07[471 too weak to copy] 31/07[471x3 00000.....]0824z S1	M8 M8	WED WED
7365kHz0730z 0730z 0730z	02/07[427 918 5 74638 10987 37889 46392 98236 918 5 00000]0735z S1 23/07[427 863 5 36755 41778 52848 00884 52454 863 5 00000] 0735z Very Strong 30/07[427 00000] 0733z Very Strong	M8 Topol Topol	TUE TUE TUE
7545kHz1230z	10/07[967 234 5 88280 84116 53718 78927 34694 234 5 00000]1235z Fair QRM1 QSB3	JkC	WED
7744kHz1510z	23/07[537 280 6 66603 58545 12818 82457 27629 17086 280 6 00000] 1515z Fair QRM2 QSB2	JkC	TUE
7845kHz0600z	19/07[196 423 5 87642 98123 67453 92830 12678 423 5 00000] Very strong, QRM	FR	FRI
8220kHz1240z	10/07[967 234 5 88280 84116 53718 78927 34694 234 5 00000]1245z Fair QRM1 QSB2	JkC	WED
8720kHz0600z	19/07[934 586 7 72836 47478 39212 09897 34286 10293 84756 586 7 00000] Strong, QRM	FR	FRI
9125kHz0610z	19/07[196 423 5 87642 98123 67453 92830 12678 423 5 00000]	FR	FRI
8221kHz0830z	15/07[371.....00000]0835z Too weak to copy	M8	MON
9353kHz0840z 0840z	01/07[371 258 6 78563 48901 39275 44091 57476 56401 258 6 00000]0845z S1 15/07[371.....00000]0845z Too weak to copy	M8 M8	MON MON
9655kHz0940z	19/07[516 274 8 64523 90756 34127 67453 76971 23221 5634 89423 274 8 00000] Very strong , QRM	FR	FRI
9670kHz0850z 0850z	03/07[328 416 5 05899 50387 45847 23013 89758 416 5 00000]0850z S9+20 31/07[328x3 00000.....]0852z S7	M8 M8	WED WED
10120kHz0840z 0840z	03/07[328 416 5 05899 50387 45847 23013 89758 416 5 00000]0845z S9+60 31/07[328x 00000.....]0840z S9+10	M8 M8	WED WED
10230kHz1200z	15/07 [831 570 6 21767 53672 11834 81022 36903 41412 570 6 00000]1205z S1	M8	MON
10233kHz1200z	01/07[831 509 6 33281 20795 47342 10768 94523 10185 509 6 00000]S2	M8	MON
10250kHz1210z	06/07[254 987 6 74658 39120 90674 10584 45732 87691987 6 00000]1215z Fair QRM1 QSB1	JkC	SAT
10290kHz0930z	19/07[516 274 8 64523 90756 34127 67453 76971 23221 5634 89423 274 8 00000] Very strong , QRM	FR	FRI
10415kHz0610z	19/07[934 586 7 72836 47478 39212 09897 34286 10293 84756 586 7 00000]	FR	FRI
11655kHz0740z 0740z 0740z 0740z	02/07[427 918 5 74638 10987 37889 46392 98236 918 5 00000]0745z S9+20 16/07[427 863 5 36755 41778 62848 00884 52454 863 5 00000]0745z S4 23/07[427 863 5 36755 41778 52848 00884 52454 863 5 00000] 0745z Very Strong 30/07[427 00000] 0743z Fair	M8 M8 Topol Topol	TUE TUE TUE TUE
12165kHz1210z 1210z	01/07[831 509 6 33281 20795 47342 10768 94523 10185 509 6 00000]S2 29/07[831 00000] 1213z Very Weak	M8, Topol Topol	MON MON
12168kHz1210z	15/07[831 570 6 21767 53672 11834 81022 36903 41412 570 6 00000]1215z S2	M8	MON
12460kHz1200z	06/07[254 987 6 74658 39120 90674 10584 45732 87691987 6 00000]1205z Fair QRM1 QSB2	JkC	SAT
12935kHz0810z 0810z	02/07[352 849 6 78690 35460 65743 88921 34721 68797 849 6 00000]0815z S9+10 16/07[352 861 7 42750 14163 59864 32505 56543 15881 82045 861 7 00000]0815z S4	M8 M8	TUE TUE
14373kHz0800z 0800z	02/07[352 849 6 78690 35460 65743 88921 34721 68797 849 6 00000]0805z S9+10 16/07[352 861 7 42750 14163 59864 32505 56543 15881 82045 861 7 00000]0805z S7	M8 M8	TUE TUE

14580kHz1000z	03/07[729 580 6 33796 13577 74526 46647 79302 51463 580 6 00000]1005z S9+20	M8	WED
1000z	17/07[729 804 5 29245 28842 82264 14255 81545 804 5 00000(s)] 1005z Fair QRN2 QSB2	Spectre	WED
1000z	24/07[729 804 5 29245 28842 82264 14255 81545 804 5 00000(s)] 1005z Fair QRN2 QSB2	Spectre	WED
1000z	31/07[729x3 00000.....]1004z S9	M8	WED
14777kHz0740z	03/07[745 890 6 21767 53672 11834 81022 36903 41412 890 6 00000]0745 S9	M8	WED
0740z	31/07[745X3 00000.....]0742z S9	M8	WED
14835kHz0910z	01/07[872 940 5 47585 40132 78960 56342 29876 940 5 00000]0915z S4	M8	MON
0910z	29/07[872 00000] 0913z Very Weak	Topol	MON
15230kHz0610z	23/07[438 205 6 47665 94092 48521 63888 92060 11749 205 6 00000] 0615z Weak	Topol	TUE
0610z	30/07[438 00000] 0613z Very Weak	Topol	TUE
16020kHz1010z	03/07[729 580 6 33796 13577 74526 46647 79302 51463 580 6 00000]1015z S9+20	M8	WED
1010z	17/07[729 804 5 29245 28842 82264 14255 81545 804 5 00000(s)] 1015z Fair QRN2 QSB2	Spectre	WED
1010z	24/07[729 804 5 29245 28842 82264 14255 81545 804 5 00000(s)] 1015z Fair QRN2 QSB2	Spectre	WED
1010z	31/07[729x3 00000.....]1012z S8	M8	WED
16380kHz0900z	01/07[872 940 5 47585 40132 78960 56342 29876 940 5 00000]0905z S2	M8	MON
16735kHz0600z	23/07[438 205 6 47665 94092 48521 63888 92060 11749 205 6 00000] 0605z Very Weak	Topol	TUE
0600z	30/07[438 00000] 0603z Very Weak	Topol	TUE
<b>August2013:</b>			
6125kHz0810z	16/08[278 916 5 40625 09467 77512 66566 22871 914 5 00000]0815z S1	M8	FRI
0810z	23/08[278 914 5 too weak to copy]0815z S1	M8	FRI
7444kHz0823z	20/08 In callup - Female - NNN 00000 <b>Possibly new schedule</b>	JPL	TUE
7545kHz1230z	07/08[967 503 8 57556 86660 24935 30414 76747 61560 78555 57455 503 8 00000]1236z Weak QSB3	JkC	WED
1230z	21/08[967 540 8 44751 79221 12579 57698 68171 68542 35778 91236 540 8 00000]1235z Very Weak	JkC	WED
7650kHz0800z	16/08[278 916 5 40625 09467 77512 66566 22871 914 5 00000]0805z S2	M8	FRI
0800z	23/08[278 914 5 40925 09467 7?5?? 67?66 22871 914 5 00000]0805z S1FADING	M8	FRI
7744kHz1510z	06/08[537 216 8 52401 63919 92699 14600 94248 48754 65123 41879 216 8 00000] 1516z Fair,QRM2 QSB3	JkC	TUE
1510z	13/08[537 216 8 52401 63919 92699 14600 94248 48754 6512n 41879 216 8 00000]1515z Fair, QRN3 QSB3	JkC	TUE
1510z	27/08[537 248 6 45698 46544 24243 65755 13016 67353 248 6 00000]1405z Fair QRM2 QSB1	JkC	TUE
7845kHz0600z	02/08[196 278 5 85626 93735 10206 47326 85227 278 5 00000] Very strong signal, moderate noise	FR	FRI
8220kHz 1240z	07/08[967 503 8 57556 86660 24935 30414 76747 61560 78555 57455 503 8 00000]1246z Weak QSB2	JkC	WED
1240z	21/08[967 540 8 44751 79221 12579 57698 68171 68542 35778 91236 540 8 00000]1245z Very Weak QSB4	JkC	WED
9125kHz0610z	02/08[196 278 5 85626 93735 10206 47326 85227 278 5 00000] Very strong signal, moderate noise	FR	FRI
9255kHz0930z	22/08[314 502 6 33796 13577 74526 46647 79402 53516 502 600000]0935z S2	M8	THU
9353kHz0840z	05/08[371 very weak 00000]0845z S1	M8	MON
9655kHz0940z	02/08[516 279 8 56891 51197 34892 34598 76799 12111 76553 98789 279 8 00000] Very strong, QRM	FR	FRI
0940z	23/08[516 892 7 53534 24704 80937 00615 51541 43717 60175 892 7 00000]0945z S9	M8	FRI
9670kHz0850z	07/08[328 940 5 92746 34510 91213 89763 56473 940 5 00000(s)] 0855z Fair QRN2 QSB2	Spectre	WED
0850z	14/08[328 940 5 92746 34510 91213 89763 56473 940 5 00000(s)] 0855z Fair QRN2 QSB2	Spectre	WED
10120kHz0840z	07/08[328 940 5 92746 34510 91213 89763 56473 940 5 00000(s)] 0845z Fair QRN2 QSB2	Spectre	WED
0840z	14/08[328 940 5 92746 34510 91213 89763 56473 940 5 00000(s)] 0845z Fair QRN2 QSB2	Spectre	WED
10230kHz1200z	05/08[831...very weak.....]1205z S1	M8	MON
10250kHz1210z	03/08[254 987 6 74658 39120 90674 10584 45732 87691 987 6 00000] Very strong, QRM	FR	SAT
10290kHz0930z	02/08[516 279 8 56891 51197 34892 34598 76799 12111 76553 98789 279 8 00000] Very strong l, QRM	FR	FRI
0930z	23/08[516 892 7 53534 24704 80937 00615 51541 43717 60175 892 7 00000]0935z S9	M8	FRI
12155kHz1200z	08/08[425 936 7 88620 58069 61732 74537 57440 10597 23521 936 7 00000(s)] 1206z Strong QRN2 QSB2	Spectre	THU
1200z	15/08[425 936 7 88620 58069 61732 74537 57440 10597 23521 936 7 00000(s)] 1206z Strong QRN2 QSB2	Spectre	THU
12165kHz1210z	05/08[831 579 6 26188 11851 98795 71473 05769 48941 579 6 00000]1215z S9+20	M8	MON
12460kHz1200z	03/08[254 987 6 74658 39120 90674 10584 45732 87691 987 6 00000] Strong, QRM	FR	SAT
12935kHz0810z	06/08[352 401 6 24935 30414 67646 61560 78532 69519 401 6 00000]0805z S1 QRM	M8	TUE
0810z	13/08[352 401 6 24935 30414 67646 61560 78532 69519 401 6 00000(s)] 0815zWeak STANAGQRM4 QSB3	Spectre	TUE
12952kHz0900z	08/08[167 832 5 52401 63919 92699 14600 74248 832 5 00000(s)] 0905z Fair QRN2 QSB2	Spectre	THU
0900z	15/08[167 832 5 52401 63919 92699 14600 74248 832 5 00000(s)] 0905z Strong QRN2 QSB2	M8, Spectre	THU
0900z	22/08[167 832 5 53401 63919 92699 14600 74248 832 5 00000]0905z S9+10	M8	THU



13145kHz1200z	15/08[425 936 7 88620 58069 61732 74537 57440 10597 23521 936 7 00000]1205z S9+10	M8	THU
1200z	22/08[425 936 7 88620 58069 61732 74537 57440 10597 23521 936 7 00000]S9	M8	THU
13565kHz0910z	08/08[167 832 5 52401 63919 92699 14600 74248 832 5 00000(s)] 0910z Weak QRN3 QSB3	Spectre	THU
0910z	15/08[167 832 5 52401 63919 92699 14600 74248 832 5 00000(s)] 0910z Weak QRN3 QSB3	Spectre	THU
0910z	22/08[167 832 5 53401 63919 92699 14600 74248 832 5 00000]0905zS9+20	M8	THU
14373kHz0800z	06/08[352 401 6 24935 30414 67646 61560 78532 69519 401 6 00000]0805z S5	M8	TUE
14535kHz1210z	08/08[425 936 7 88620 58069 61732 74537 57440 10597 23521 936 7 00000(s)] 1216z Strong QRN2 QSB2	Spectre	THU
1210z	15/08[425 936 7 88620 58069 61732 74537 57440 10597 23521 936 7 00000(s)] 1216z Strong QRN2 QSB2	Spectre	THU
1210z	22/08[425 936 7 88620 58069 61732 74537 57440 10597 23521 936 7 00000]S9+10	M8	THU
14580kHz1000z	07/08[729 508 6 38770 01731 75610 50757 76869 53521 508 6 00000(s)] 1005z Fair RTTYQRM3 QSB3	Spectre	WED
1000z	14/08[729 508 6 38770 01731 75610 50757 76869 53521 508 6 00000(s)] 1005z Fair RTTYQRM3 QSB3	Spectre	WED
1000z	21/08[729 453 6 94316 38545 59445 52484 69056 55841 453 6 00000]1005z Strong QRM1 QSB1	JkC, Spectre	WED
1000z	28/08[729 493 6 94316 38545 59445 52484 69056 55841 493 6 00000(s)] 1005z Fair QRN3 QSB3	Spectre	WED
14835kHz0910z	05/08[872 504 6 84116 53718 78927 23694 06123 88280 504 6 00000]0915z S2	M8	MON
16020kHz1010z	07/08[729 508 6 38770 01731 75610 50757 76869 53521 508 6 00000(s)] 1015z Fair RTTYQRM3 QSB3	Spectre	WED
1010z	14/08[729 508 6 38770 01731 75610 50757 76869 53521 508 6 00000(s)] 1015z Fair RTTYQRM3 QSB3	Spectre	WED
1010z	21/08[729 453 6 94316 38545 59445 52484 69056 55841 453 6 00000]1015z Strong QRM1 QSB1	JkC	WED
1010z	28/08[729 493 6 94316 38545 59445 52484 69056 55841 493 6 00000(s)] 1015z Fair QRN3 QSB3	Spectre	WED
16380kHz0900z	05/08[872 504 6 84116 53718 78927 23694 06123 88280 504 6 00000]0905z S3	M8	MON

### S11a[III]

#### **S11 log July/Aug**

8530kHz 0915z	09/07 [484/00]	RNGB	TUE
0915z	19/07 [483/30 Vnimanie!18496 18852 60225 49850....20916] Konec	Fox	FRI
0915z	30/07 [484/00]	RNGB	TUE
0915z	02/08 [484/00] Weak	RNGB	FRI
0915z	06/08 [484/00] R3m Konec 0918z Strong QRM1 QSB1	JkC	TUE
0915z	13/08 [484/38 80091 92257 55281 68963 65047.....31661] Good	RNGB	TUE
0915z	16/08 [484/38 80091 etc] repeat of Tuesday	RNGB	FRI
0915z	20/08 [484/00]	RNGB	TUE
11581kHz 1020z	09/07 [426/00]	RNGB	TUE
1020z	02/08 [426/00]	RNGB	FRI
1020z	06/08 [426/00] Konec 1023z S5	Malc, JkC	TUE
1020z	20/08 [425/30 92573 59519 6981087554 14764.....55961] Weak	RNGB	TUE
1020z	23/08 [425/30 92573 etc] Konec 1030z S9 (repeat of Tuesday)	Malc	FRI
16530kHz 1015z	15/08 [475/00] 1018z Fair QRN3 QSB3	Malc,Spectre	THU
1015z	18/07 [475/00] Fair	RNGB	THU
1015z	01/08 [475/00]	RNGB	THU
1015z	19/08 [478/37 36715 19556 80402 89813 75073.....67841] Konec 1027z	RNGB	MON

### S21

#### July2013:

4973kHz1742z	02/07[973 763 30 84763 ... 28344 763 30 000] 1752z QSA3 QRM4 QRN4 QSB3	tiNG	TUE
1742z	09/07[973 218 32 43686 ... 98182 218 32 000] Strong, QRM, QSB	FR	TUE
1742z	11/09[973 218 32 43686 ... 98182 218 32 000] Medium signal, QRM, QSB	FR, JkC	THU
	973 218 32		
	43686 29905 87651 90187 63788		
	12796 48721 24650 64894 99372		
	62276 94984 79133 95254 46913		
	51947 87189 28347 46148 38261		
	10382 20692 76721 98920 68271		
	93761 62892 95162 75919 96686		
	21447 98182		
	218 32 000 <i>Courtesy FR</i>		

#### August2013:

4973kHz1742z	01/08[[973 218 32 43686 ... 98182 218 32 000] repeat from 09/07] Strong signal, QRM, QSB	FR	THU
1742z	06/08[973 518 35?? very weak]1752z S1	M8	TUE
1742z	15/08[973... FADED OUT.....378 34 000]1754z S1	M8	THU
5373kHz1742z	13/08[973 368 368 34 34]	GD	TUE
1743z	22/08 [973 368 34 67803.....89471 368 34 00000]1755z S7	M8	THU
1742z	27/08[973 368 34 66803 ... 89471 368 34 000] Very strong signal, weak/moderate noise	FR, JkC	TUE
	973 368 34		
	66803 16475 36339 31533 72231		
	34823 04304 44032 50946 10961		
	79993 96512 84015 51547 70476		
	45262 34549 60599 22837 42325		
	54072 98417 25045 33526 55428		
	71256 04763 87710 96749 98534		
	42047 91703 25483 89471		
	368 34 000 <i>Courtesy FR, JkC</i>		

**V02a**

SEE SCHEDULE IN CHARTS SECTION

V02a Report.

Another very quiet period but the Spanish Lady is still appearing occasionally in the 2000z slot on Tuesday and Thursdays but only when the operator makes a mistake and puts her on in place of, or with M08a. All attempts to find the actual frequency have failed to date.

7554kHz 2000z	09/07 in progress, Simultaneous with M08a. She is still out there somewhere!	AnonUS	TUE
7554kHz 2000z	23/07 In Prog, part of first msg heard on a recording [71061 14245 62372 01640 83674 88627 ----7 65850 844--]	AnonUS	TUE
7554kHz 2000z	25/07 In Progress. Barely audible but the spanish lady can definitely be heard in LSB mode.	AnonUS	TUE
7554kHz 2000z	27/08[----- 18221] Part of first message was 87405 04515 31636 37620 13130 07062 32112 35416 74502 12835 18307 4822? TX was only audible in LSB mode. Expected M08a in this time slot/frequency so presumably of of the common Cuban mistakes.	AnonUS	TUE

**V07****July 2013:**

10282 kHz0740z	14/07[512 525 99 525 99]	T	SUN
12182 kHz0720z 0720z	14/07[512 525 99 525 99] 21/07[512 512 512 1 (x5) 539 63 (x2) 82471 33081...77134 95417 000 000] QSA2  512 512 512 1 (x5) 539 63 (x2) 82471 33081 51244 87231 70225 95331 40413 52157 72009 23534 35779 13807 34973 08792 10510 10519 33787 13001 88829 33720 08327 1231? 33373 91459 38119 48285 84533 33248 12343 71813 83893 72032 88185 33398 70803 03323 13838 30739 84034 50289 77330 11884 8738? 00003 85280 82081 89907 1?333 08730 02980 03782 53390 30895 05413 39873 84341 41133 08389 33897 51750 31123 77134 95417 000 000 <i>Courtesy DanAr</i>	T DanAr	SUN SUN
13582kHz0700z 0700z	07/07[512 512 512 ? ?????] Very weak signal 14/07[512 512 512 1 (x5) 525 93 (x2) 2533? ... 533?9 000 000] QSA2  512 512 512 1 (x5) 525 93 525 93 2533? 0531? 0802? 52301 31780 82587 81232 28083 75667 3313? 78833 50324 38120 88480 82041 27033 58140 83948 82239 23257 11225 37333 038?1 78188 83282 33793 38943 88137 44338 03043 12398 07308 19879 97577 33928 39215 54888 29833 53328 11870 81972 71825 45493 28045 98315 42538 17757 01319 80037 70392 81023 28912 94303 35157 84197 38940 92244 44425 8703? 72310 04701 91303 53787 29932 93033 78497 14820 ?1023 98054 22170 77778 97700 87013 31098 35900 23335 ?3815 42432 84204 33589 70234 22337 33734 09500 40375 21820 99523 40320 34321 21?14 75743 77284 533?9 000 000 <i>Courtesy DanAr</i>	DanAr DanAr, GD	SUN SUN
0700z	28/07[512 512 512 000] x5 QSA 3	DanAR	SUN

**August 2013:**

13423kHz0520z	11/08[845 845 845 1 (x5) 539 73 (x2) 50139 71089 ...28491 000 000] QSA2  845 845 845 1 (x5) 539 73 (x2) 50139 71089 21277 43790 31548 42939 33385 735?3 47318 19021 53899 03474 797?7 47421 30251 98843 12434 39259 87930 31738 3333? 30022 20937 45497 50720 24580 28113 52937 00142 52102 54432 72381 35489 39489 07717 83039 15542 55739 50512 51?77 71080 98778 07731 35112 82717 19783 35173 4731? 85173 97919 93502 87?07 91128 44992 30839 13148 55981 23754 34790 07787 09050 85222 44111 34357 73559 0243? 33577 9388? 07188 32173 39584 42901 28491 000 000 <i>Courtesy DanAr</i>	DanAR, HFD	SUN
0520z	18/08[845 845 845 000 x5] QSA 2	DanAR	SUN
14823kHz0500z	11/08[845:1-569/72=50129] via GT Mojave Desert	HFD	SUN

**V13**

13750kHz1200z	01/08		SH	THU
V13 New Star Broadcasting/ Star Star Radio (Enigma2000 Designator V13) via Global Tuners remote site in Tai Po, NT, Hong Kong with an excellent signal on 13750 kHz listening in USB. The broadcast audio started at 1200:07 GMT and ended at 1229:17 GMT. Broadcast lasts 29 minutes 10 seconds. QRM from 13755 kHz which is listed as CRI in Mandarin via Kashi. Also heard in the USA on with poor to JBA signal in AM mode from 1201 to 1204 with fade out by 1205 GMT and then heard again from 1218 GMT until the 1229 sign off with a poor signal using USB. August 1, 2013-Steve				
13750kHz1200z	23/08[Mx, voice, msg txt] ends 1230z		ndl	FRI
13750kHz0500z	24/08 V13 chinese yl (via HongKong remote receiver) 0525z		ndl	SAT
13750kHz0600z	24/08 V13 chinese yl (via HongKong remote receiver) 0630z		ndl	SAT
0700 and 0800 UTC tentative but no transmission heard on 13750 and 15388 kHz (qrm with chinese broadcast on 15390 kHz)				

**V21** Babbl

Another very quiet two month period for The Babbl.

6529kHz1400z	04/08 One very weak count from 20 to 40 pausing at 30		AnonUS	SU
6529kHz1415z	25/08 Too weak to copy but definitely the Babbl.		AnonUS	SUN

**V22** No reports

**V24** No reports

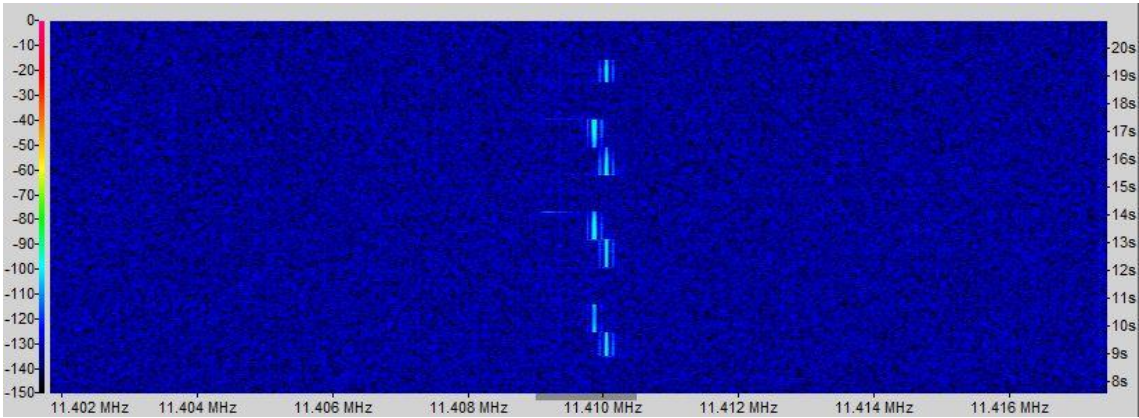
**V30** No reports

**Polytones:**

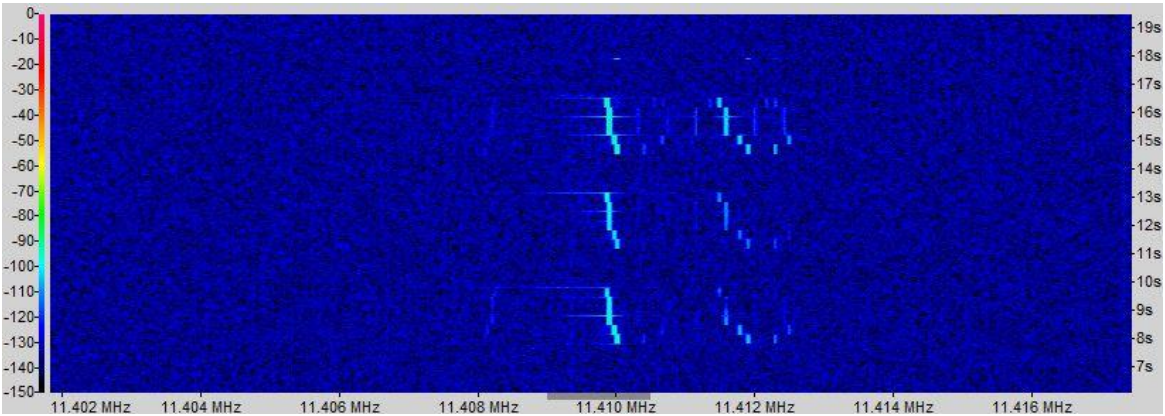
**XPA c**

**July2013:**

The following two images also have relevance to X06



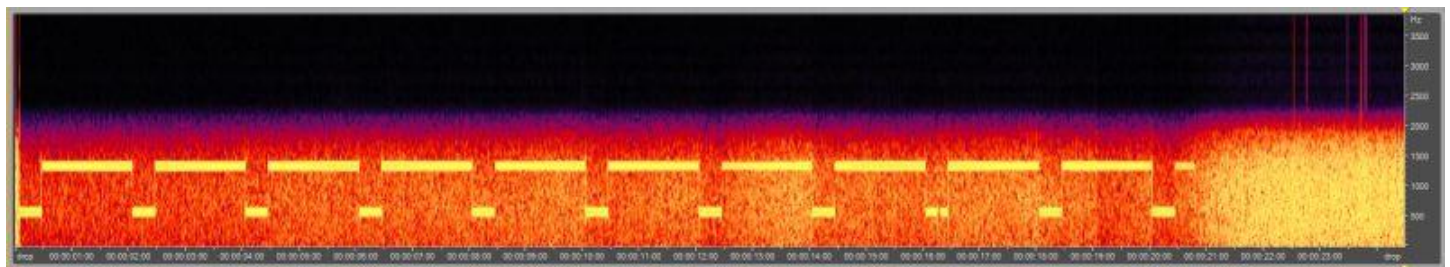
11409kHz 0505z 03/07 Tones heard preceding the 0600z sending , originally thought to be X06[?] with problems but which is two tones at three times length ie 111222 ... see below:



X06[?] sent 11409kHz 0530z 03/07 Note sequence with tones 2 & 3 sent as long tone – just like XPA in ID [see image in XPA c] Possibly122234

11409kHz0600z	03/07[456 1 03377 00107 32168 26113] Fair	(3m31s)	PLdn	WED
13509kHz0620z	03/07[456 1 03377 00107 32168 26113] Fair	(3m31s)	PLdn	WED
14609kHz	03/07[456 1 03377 00107 32168 26113] Fair	(3m31s)	PLdn	WED
11409kHz0600z	06/07[456 1 03377 00107 32168 26113] Strong	(3m31s)	PLdn	SAT
13509kHz0620z	06/07[456 1 03377 00107 32168 26113] Strong	(3m31s)	PLdn	SAT
14609kHz0640z	06/07[456 1 03377 00107 32168 26113] Strong	(3m31s)	PLdn	SAT
11409kHz0600z	10/07[456 1 03377 00107 32168 26113] Strong	(3m31s)	PLdn	WED
13509kHz0620z	10/07[456 1 03377 00107 32168 26113] Weak	(3m31s)	PLdn	WED
14609kHz0640z	10/07[456 1 03377 00107 32168 26113] Fair	(3m31s)	PLdn	WED
11409kHz0600z	13/07[456 1 07539 00141 62902 13467] Fair, QSB2	(3m51s)	PLdn	SAT
13509kHz0620z	13/07[456 1 07539 00141 62902 13467] Strong	(3m51s)	PLdn	SAT
14609kHz0640z	13/07[456 1 07539 00141 62902 13467] Very strong	(3m51s)	PLdn	SAT
11409kHz0600z	17/07[456 1 08084 00078 34937 11023] Strong	(3m12s)	PLdn	WED
13509kHz0620z	17/07[456 1 08084 00078 34937 11023] Very Strong, QSB3	(3m12s)	PLdn	WED
14609kHz0640z	17/07[456 1 08084 00078 34937 11023] Very Strong, QSB2	(3m12s)	PLdn	WED
11409kHz0600z	20/07[456 1 00660 00217 67256 13246] Fair, QSB2	(4m40s)	PLdn	SAT
13509kHz0620z	20/07[456 1 00660 00217 67256 13246] Strong	(4m40s)	PLdn	SAT
14609kHz0640z	20/07[456 1 00660 00217 67256 13246] Strong, QRM2	(4m40s)	PLdn	SAT
11409kHz0600z	24/07[456 1 00660 00217 67256 13246] Very strong	(4m40s)	PLdn	WED
13509kHz0620z	24/07[456 1 00660 00217 67256 13246] Fair	(4m40s)	PLdn	WED
14609kHz0640z	24/07[456 1 00660 00217 67256 13246] Strong	(4m40s)	PLdn	WED
11409kHz0600z	27/07[456 1 08669 00177 79005 42734] Strong	(4m14s)	PLdn	SAT
13509kHz0620z	27/07[456 1 08669 00177 79005 42734] Very strong	(4m14s)	PLdn	SAT
14609kHz0640z	27/07[456 1 08669 00177 79005 42734] Very strong, QRM3	(4m14s)	PLdn	SAT
11409kHz0600z	31/07[456 1 08669 00177 79005 42734] Strong	(4m14s)	PLdn	WED
13509kHz0620z	31/07[456 1 08669 00177 79005 42734] Fair, QSB3	(4m14s)	PLdn	WED
14609kHz0640z	31/07[456 1 08669 00177 79005 42734] Strong	(4m14s)	PLdn	WED

### August 2013:



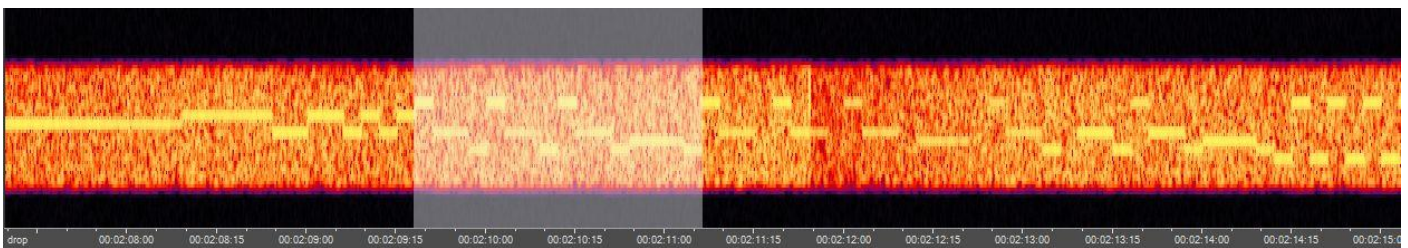
10868kHz0600z 03/08 LOS after 20.5s, was very strong

10868kHz0600z	03/08 LOS after few seconds, was very strong		PLdn	SAT
12168kHz0620z	03/08[813 1 08669 00177 79005 42734] Strong	(4m14s)	PLdn	SAT
13368kHz0640z	03/08[813 1 08669 00177 79005 42734] Very strong	(4m14s)	PLdn	SAT
10868kHz0600z	07/08[813 000 07453 00001 00000 10140] Strong	(2m26s)	PLdn	WED
12168kHz0620z	07/08[813 000 07453 00001 00000 10140] Very strong	(2m26s)	PLdn	WED
13368kHz0640z	07/08[813 000 07453 00001 00000 10140] Very strong	(2m26s)	PLdn	WED
10868kHz0600z	10/08[813 1 08669 00177 79005 42734] Very strong	(4m14s)	PLdn	SAT
12168kHz0620z	10/08[813 1 08669 00177 79005 42734] Very strong	(4m14s)	PLdn	SAT
13368kHz0640z	10/08[813 1 08669 00177 79005 42734] Strong	(4m14s)	PLdn	SAT
10868kHz0600z	14/08[813 1 04500 00111 09177 35063] Very strong	(2m26s)	PLdn	WED
12168kHz0620z	14/08[813 1 04500 00111 09177 35063] Very strong	(2m26s)	PLdn	WED
13368kHz0640z	14/08[813 1 04500 00111 09177 35063] Very strong	(2m26s)	PLdn	WED
10868kHz0600z	17/08[813 000 01870 00001 00000 10140] Very strong	(2m26s)	PLdn	SAT
12168kHz0620z	17/08[813 000 01870 00001 00000 10140] Very strong	(2m26s)	PLdn	SAT
13368kHz0640z	17/08[813 000 01870 00001 00000 10140] Strong	(2m26s)	PLdn	SAT

10868kHz0600z	21/08[813 1 08902 00145 46051 62242] Very strong	(3m55s)	PLdn	WED
12168kHz0620z	21/08[813 1 08902 00145 46051 62242] Very strong	(3m55s)	PLdn	WED
13368kHz0640z	21/08[813 1 08902 00145 46051 62242] Very strong	(3m55s)	PLdn	WED
10868kHz0600z	24/08[813 1 08902 00145 46051 62242] Fair, QRM2 QSB3	(3m55s)	PLdn	SAT
12168kHz0620z	24/08[813 1 08902 00145 46051 62242] Very strong	(3m55s)	PLdn	SAT
13368kHz0640z	24/08[813 1 08902 00145 46051 62242] Very strong	(3m55s)	PLdn	SAT
10868kHz0600z	28/08[813 1 08902 00145 46051 62242] Very Strong	(3m55s)	PLdn	WED
12168kHz0620z	28/08[813 1 08902 00145 46051 62242] Very Strong	(3m55s)	PLdn	WED
13368kHz0640z	28/08[813 1 08902 00145 46051 62242] Very Strong	(3m55s)	PLdn	WED
10868kHz0600z	31/08[813 000 05861 00001 00000 10140] Very strong	(2m26s)	PLdn	SAT
12168kHz0620z	31/08[813 000 05861 00001 00000 10140] Very strong	(2m26s)	PLdn	SAT
13368kHz0640z	31/08[813 000 05861 00001 00000 10140] Very strong	(2m26s)	PLdn	SAT

**XPA c**  
**July2013:**

This spectral diagram has relevance to XPA c July illustrations above and X06



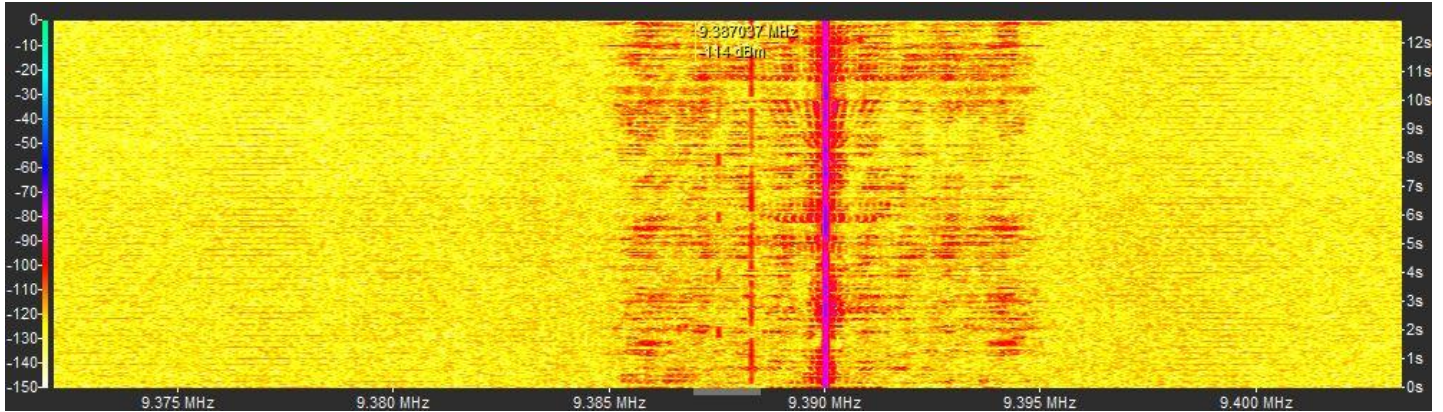
XPA c 10943kHz1730z 02/07 Ident 922 Message 000, note double tone for '22' and treble length tone for '000' Now seen in X06

10943kHz1730z	02/07[922 000 08474 00001 00000 10140] Weak	(2m26s)	JkC, PLdn, tiNG	TUE
10243kHz1750z	02/07[922 000 08474 00001 00000 10140] Weak	(2m26s)	JkC	TUE
9243kHz1810z	02/07[922 000 08474 00001 00000 10140] Weak	(2m26s)	JkC,tiNG,PLdn	TUE
10943kHz1730z	04/07[922 000 05899 00001 00000 10140] Weak, QSB3	(2m26s)	PLdn	THU
10243kHz1750z	04/07[922 000 05899 00001 00000 10140] Weak	(2m26s)	PLdn	THU
9243kHz1810z	04/07 Very weak		PLdn	THU
10943kHz1730z	09/07[922 1 07260 00225 22695 04273] Fair, QSB3	(4m43s)	PLdn	TUE
10243kHz1750z	09/07[922 1 07260 00225 22695 04273] Fair, QSB3	(4m43s)	PLdn	TUE
9243kHz1810z	09/07[922 1 07260 00225 22695 04273] Fair, QSB3	(4m43s)	PLdn	TUE
10943kHz1730z	11/07 Weak, unusable		PLdn	THU
10243kHz1750z	11/07 Very weak, unusable		PLdn	THU
9243kHz1810z	11/07 Very weak, unusable		PLdn	THU
10943kHz1730z	16/07[922 000 03303 00001 00000 10140] Very weak	(2m26s)	PLdn	TUE
10243kHz1750z	16/07[922 000 03303 00001 00000 10140] Very weak	(2m26s)	PLdn	TUE
9243kHz1810z	16/07[922 000 03303 00001 00000 10140] Very weak	(2m26s)	PLdn	TUE
10943kHz1730z	18/07[922 000 ] Very weak	(2m26s)	PLdn	THU
10243kHz1750z	18/07[922 000 ] Very weak	(2m26s)	PLdn	THU
9243kHz1810z	18/07[922 000 ] Very weak	(2m26s)	PLdn	THU
10943kHz1730z	23/07[922 1 06618 00189 83997 61765 ] Weak, XJTQRM2	(4m22s)	PLdn, JkC	TUE
10243kHz1750z	23/07[922 1 06618 00189 83997 61765 ] Weak, QSB2/3	(4m22s)	PLdn, JkC	TUE
9243kHz1810z	23/07[922 1 06618 00189 83997 61765 ] Weak	(4m22s)	PLdn, JkC	TUE
10943kHz1730z	25/07[922 1 06618 00189 83997 61765 ] Weak, XJTQRM2	(4m22s)	PLdn	THU
10243kHz1750z	25/07[922 1 06618 00189 83997 61765 ] Weak	(4m22s)	PLdn	THU
9243kHz1810z	25/07[922 1 06618 00189 83997 61765 ] Weak	(4m22s)	PLdn	THU
10943kHz1730z	30/07[922 000 02944 00001 00000 10140] Weak, QSB3	(2m26s)	PLdn, JkC	TUE
10243kHz1750z	30/07[922 000 02944 00001 00000 10140] Weak	(2m26s)	PLdn, JkC	TUE
9243kHz1810z	30/07[922 000 02944 00001 00000 10140] Very weak	(2m26s)	PLdn, JkC	TUE



**August 2013:**

12187kHz1730z	01/08[173 000 09138 00001 00000 10140] Fair, QSB3	(2m26s)	PLdn	THU
10787kHz1750z	01/08[173 000 09138 00001 00000 10140] Fair, QSB3	(2m26s)	PLdn	THU
9387kHz1810z	01/08[173 000 09138 00001 00000 10140] Fair, BCQRM2	(2m26s)	PLdn, SH(USA)	THU
12187kHz1730z	06/08[173 000 05601 00154 98571 79042] Fair, QSB3	(4m00s)	PLdn	TUE
10787kHz1750z	06/08[173 000 05601 00154 98571 79042] Weak	(4m00s)	PLdn	TUE
9387kHz1810z	06/08[173 000 05601 00154 98571 79042] Weak, BCQRM3	(4m00s)	PLdn	TUE



Illustrates tertiary sending of XPA e on 9387kHz in the sideband of the Radio Thailand on 9390kHz in the BC 31M band

12187kHz1730z	08/08[173 000 05601 00153 98571 79042] Strong	(4m00s)	PLdn	THU
10787kHz1750z	08/08 Weak, unuseable		PLdn	THU
9387kHz1810z	08/08[173 000 05601 00154 98571 79042] Fair, BCQRM3 [see above]	(4m00s)	PLdn	THU
12187kHz1730z	13/08[173 000 03621 00001 00000 10140] Weak	(2m26s)	PLdn	TUE
10787kHz1750z	13/08[173 000 03621 00001 00000 10140] Weak, QRM3	(2m26s)	PLdn	TUE
9387kHz1810z	13/08[173 000 03621 00001 00000 10140] Weak	(2m26s)	PLdn	TUE
12187kHz1730z	15/08[173 000 01895 00001 00000 10140] Fair	(2m26s)	PLdn	THU
10787kHz1750z	15/08[173 000 01895 00001 00000 10140] Weak	(2m26s)	PLdn	THU
9387kHz1810z	15/08[173 000 01895 00001 00000 10140] Fair, BCQRM2	(2m26s)	PLdn	THU
12187kHz1730z	20/08[173 000 08001 00001 00000 10140] Fair/Good Noisy with QSB	(2m26s)	BR, RNGB	TUE
10787kHz1750z	20/08[173 000 08001 00001 00000 10140] Good Noisy with QSB	(2m26s)	BR	TUE
9327kHz1810z	20/08[173 000 08001 00001 00000 10140] Good – Severe BC QRM	(2m26s)	BR	TUE
12187kHz1730z	22/08[173 000 05517 00001 00000 10140] Weak	(2m26s)	PLdn	THU
10787kHz1750z	22/08[173 000 05517 00001 00000 10140] Weak	(2m26s)	PLdn	THU
9387kHz1810z	22/08[173 000 05517 00001 00000 10140] Weak, BCQRM3	(2m26s)	PLdn	THU
12187kHz1730z	27/08[173 1 01930 00231 97492 27204] Weak	(4m47s)	PLdn	TUE
10787kHz1750z	27/08[173 1 01930 00231 97492 27204] Fair	(4m47s)	PLdn	TUE
9387kHz1810z	27/08[173 1 01930 00231 97492 27204] Fair, BCQRM3	(4m47s)	PLdn	TUE
12187kHz1730z	29/08[173 1 01930 00231 97492 27204] Fair, QRM3	(4m47s)	PLdn	THU
10787kHz1750z	29/08[173 1 01930 00231 97492 27204] Fair, QRM3	(4m47s)	PLdn	THU
9387kHz1810z	29/08[173 1 01930 00231 97492 27204] Fair, BCQRM2	(4m47s)	PLdn	THU

**XPA2m****July 2013:****Sun/Tue**

14538kHz2100z	02/07[07237 00087 33639 25214] Fair	(3m17s)	PLdn	TUE
13538kHz2120z	02/07[07237 00087 33639 25214] Strong	(3m17s)	PLdn	TUE
12138kHz2140z	02/07[07237 00087 33639 25214] Fair	(3m17s)	PLdn	TUE
14538kHz2100z	07/07[02298 00001 00000 10140] Very strong	(2m11s)	PLdn	SUN
13538kHz2120z	07/07[02298 00001 00000 10140] Strong	(2m11s)	PLdn	SUN
12138kHz2140z	07/07[02298 00001 00000 10140] Fair, QSB2	(2m11s)	PLdn	SUN
14538kHz2100z	09/07[02050 00001 00000 10140] Very strong	(2m11s)	PLdn	TUE
13538kHz2120z	09/07[02050 00001 00000 10140] Very strong	(2m11s)	PLdn	TUE
12138kHz2140z	09/07[02050 00001 00000 10140] Very strong	(2m11s)	PLdn	TUE

14538kHz2100z	14/07[05997 00001 00000 10140] Weak, sounded strange	(2m11s)	PLdn	SUN
13538kHz2120z	14/07[05997 00001 00000 10140] Weak, sounded strange	(2m11s)	PLdn	SUN
12138kHz2140z	14/07[05997 00001 00000 10140] Weak, sounded strange	(2m11s)	PLdn	SUN
14538kHz2100z	16/07[08183 00001 00000 10140] Very strong	(2m11s)	PLdn	TUE
13538kHz2120z	16/07[08183 00001 00000 10140] Very strong	(2m11s)	PLdn	TUE
12138kHz2140z	16/07[08183 00001 00000 10140] Very strong	(2m11s)	PLdn	TUE
14538kHz2100z	21/07[07128 00047 85088 55016] Strong	(2m47s)	PLdn	SUN
13538kHz2120z	21/07[07128 00047 85088 55016] Very strong	(2m47s)	PLdn	SUN
12138kHz2140z	21/07[07128 00047 85088 55016] Very strong	(2m47s)	PLdn	SUN
14538kHz2100z	23/07[07128 00047 85088 55016] Very strong	(2m47s)	PLdn	TUE
13538kHz2120z	23/07[07128 00047 85088 55016] Very strong	(2m47s)	PLdn	TUE
12138kHz2140z	23/07[07128 00047 85088 55016] Very strong	(2m47s)	PLdn	TUE
14538kHz2100z	28/07[06704 00157 35071 41002] Strong	(4m12s)	PLdn	SUN
13538kHz2120z	28/07[06704 00157 35071 41002] Strong	(4m12s)	PLdn	SUN
12138kHz2140z	28/07[06704 00157 35071 41002] Strong	(4m12s)	PLdn	SUN
14538kHz2100z	30/07[06704 00157 35071 41002] Strong	(4m12s)	PLdn	TUE
13538kHz2120z	30/07[06704 00157 35071 41002] Strong	(4m12s)	PLdn	TUE
12138kHz2140z	30/07[06704 00157 35071 41002] Strong	(4m12s)	PLdn	TUE
<b><u>August 2013:</u></b>				
14738kHz2000z	04/08[04181 00001 00000 10140] Very strong	(2m11s)	PLdn	SUN
13438kHz2020z	04/08[04181 00001 00000 10140] Very strong	(2m11s)	PLdn	SUN
12138kHz2040z	04/08[04181 00001 00000 10140] Very strong	(2m11s)	PLdn	SUN
14738kHz2000z	06/08[04696 00001 00000 10140] Very strong	(2m11s)	PLdn	TUE
13438kHz2020z	06/08[04696 00001 00000 10140] Very strong	(2m11s)	PLdn	TUE
12138kHz2040z	06/08[04696 00001 00000 10140] Very strong	(2m11s)	PLdn	TUE
14738kHz2000z	11/08 NRH, two strong carriers sent between 2000 and 2002z		PLdn	SUN
13438kHz2020z	11/08[04543 00001 00000 10140] Very strong	(2m11s)	PLdn	SUN
12138kHz2040z	11/08[04543 00001 00000 10140] Very strong	(2m11s)	PLdn	SUN
14738kHz2000z	13/08[07491 00001 00000 10140] Very strong	(2m11s)	PLdn	TUE
13438kHz2020z	13/08[07491 00001 00000 10140] Very strong	(2m11s)	PLdn	TUE
12138kHz2040z	13/08[07491 00001 00000 10140] Very strong	(2m11s)	PLdn	TUE
14738kHz2000z	18/08[03889 00001 00000 10140] Very strong	(2m11s)	PLdn	SUN
13438kHz2020z	18/08[03889 00001 00000 10140] Very strong	(2m11s)	PLdn	SUN
12138kHz2040z	18/08[03889 00001 00000 10140] Very strong	(2m11s)	PLdn	SUN
14738kHz 2000z	20/08 [09290 00001 00000 10140] Very strong	(2m11s)	PLdn	TUE
13438kHz 2020z	20/08 [09290 00001 00000 10140] Very strong	(2m11s)	PLdn	TUE
12138kHz 2040z	20/08 [09290 00001 00000 10140] Very strong	(2m11s)	PLdn	TUE
14738kHz2000z	25/08[09437 00051 92276 63405] Fair, QSB2	(2m50s)	PLdn	SUN
13438kHz2020z	25/08[09437 00051 92276 63405] Very strong	(2m50s)	PLdn	SUN
12138kHz2040z	25/08[09437 00051 92276 63405] Very strong	(2m50s)	PLdn	SUN
20:47:42 XPA2 Start Tones Found (correcting by -53 Hz) 20:47:47 Sync tone found 20:47:47 Symbol timing found 09347 00051 92276 61878 75065 84032 07860 40496 24340 47134 69448 33244 88757 97883 90439 47318 04602 95113 91552 65720 14428 32673 10995 76296 33720 84421 04214 21714 22707 04242 69441 86374 60616 42748 29213 85206 53099 47115 72018 57156 82519 73033 94490 38827 87423 28533 46948 60924 20709 28485 97886 64045 61391 63405 End Tone 20:48:33 XPA2 Decode Complete				
14738kHz2000z	27/08[09437 00051 92276 63405] Fair	(2m50s)	PLdn	TUE
13438kHz2020z	27/08[09437 00051 92276 63405] Weak	(2m50s)	PLdn	TUE
12138kHz2040z	27/08[09437 00051 92276 63405] Weak	(2m50s)	PLdn	TUE



**XPA2 r**  
**July 2013:**  
**Fri/Sat**

15967kHz2100z	05/07[04312 00139 27325 36564]	(3m56s)	PLdn	FRI
14869kHz2120z	05/07 NRH		PLdn	FRI
12217kHz2140z	05/07 NRH		PLdn	FRI
15967kHz2100z	06/07 Weak / Noisy (Unusable)		BR	SAT
14869kHz2120z	06/07NRH		BR	SAT
12217kHz2140z	06/07[04312 00139 27325 36564] Fair / Noisy (Msg as Fri)		BR	SAT
15967kHz2100z	13/07 Extremely weak. Unusable		BR	FRI
14869kHz2120z	13/07 NRH (Nor on 14867 or search)		BR	FRI
12217kHz2140z	13/07[08824 00080 02436 40300] Good, QSB	(3m15s)	BR	FRI
15967kHz2100z	13/07[08824 00080 02436 40300] Very strong	(3m15s)	BR, PLdn	SAT
13884kHz2120z	13/07[08824 00080 02436 40300] Very strong	(3m15s)	BR, PLdn	SAT
12217kHz2140z	13/07[08824 00080 02436 40300] Very strong	(3m15s)	BR, PLdn	SAT
15967kHz2100z	19/07[02179 00137 33355 11127] Very strong	(3m55s)	BR	FRI
13884kHz2120z	19/07[02179 00137 33355 11127] Very strong	(3m55s)	BR	FRI
12217kHz2140z	19/07[02179 00137 33355 11127] Very strong	(3m55s)	BR	FRI
15967kHz2100z	20/07[02179 00137 33355 11127] Very strong	(3m55s)	PLdn	SAT
13884kHz2120z	20/07[02179 00137 33355 11127] Very strong	(3m55s)	PLdn	SAT
12217kHz2140z	20/07[02179 00137 33355 11127] Very strong	(3m55s)	PLdn	SAT
15967kHz2100z	26/07[02378 00089 94406 52272] Fair	(3m19s)	BR	FRI
14869kHz2120z	26/07[02378 00089 94406 52272] Very strong	(3m19s)	BR	FRI
12217kHz2140z	26/07[02378 00089 94406 52272] Very strong	(3m19s)	BR, DanAr	FRI
15967kHz2100z	27/07[02378 00089 94406 52272] Very strong	(3m18s)	BR	SAT
14869kHz2120z	27/07[02378 00089 94406 52272] Very strong	(3m18s)	BR	SAT
12217kHz2140z	27/07[02378 00089 94406 52272] Strong	(3m18s)	BR	SAT

**August 2013:**

16167kHz1900z	02/08[00412 00105 08946 46410] Strong, rapid QSB	(3m31s)	BR	FRI
14663kHz1920z	02/08[00412 00105 08946 46410] Strong, rapid QSB	(3m31s)	BR	FRI
13923kHz1940z	02/08[00412 00105 08946 46410] Strong, rapid QSB	(3m31s)	BR	FRI
16167kHz1900z	03/08[00412 00105 08946 46410] Strong	(3m31s)	BR, GN	SAT
14663kHz1920z	03/08[00412 00105 08946 46410] Strong	(3m31s)	BR, GN	SAT
13923kHz1940z	03/08[00412 00105 08946 46410] Strong	(3m31s)	BR, GN	SAT
16167kHz1900z	09/08[09938 00097 23620 43753] Very strong	(3m25s)	PLdn	FRI
14663kHz1920z	09/08[09938 00097 23620 43753] Very strong	(3m25s)	PLdn	FRI
13923kHz1940z	09/08[09938 00097 23620 43753] Fair, QSB3	(3m25s)	PLdn	FRI
16167kHz1900z	10/08[09938 00097 23620 43753] Very strong	(3m25s)	PLdn	SAT
14663kHz1920z	10/08[09938 00097 23620 43753] Very strong	(3m25s)	PLdn	SAT
13923kHz1940z	10/08[09938 00097 23620 43753] Very strong	(3m25s)	PLdn	SAT
16167kHz1900z	16/08[09225 00165 57142 44062] Very strong	(4m17s)	PLdn	FRI
14663kHz1920z	16/08[09225 00165 57142 44062] Very strong	(4m17s)	PLdn	FRI
13923kHz1940z	16/08 NRH		PLdn	FRI
16167kHz1900z	17/08[09225 00165 57142 44062] Very strong	(4m17s)	PLdn	SAT
14663kHz1920z	17/08[09225 00165 57142 44062] Very strong	(4m17s)	PLdn	SAT
13923kHz1940z	17/08[09225 00165 57142 44062] Very strong	(4m17s)	PLdn	SAT
16167kHz1900z	23/08[09096 00079 86207 40204] Very strong	(3m11s)	PLdn	FRI
14663kHz1920z	23/08[09096 00079 86207 40204] Very strong	(3m11s)	PLdn	FRI
13923kHz1940z	23/08[09096 00079 86207 40204] Very strong	(3m11s)	PLdn	FRI
16167kHz1900z	24/08[09096 00079 86207 40204] Strong	(3m11s)	PLdn	SAT
14663kHz1920z	24/08[09096 00079 86207 40204] Fair, TTYQRM2	(3m11s)	PLdn	SAT
13923kHz1940z	24/08[09096 00079 86207 40204] Strong	(3m11s)	PLdn	SAT
16167kHz1900z	30/08[07326 00175 56391 34357] V.Strong	(4m25s)	BR	FRI
14663kHz1920z	30/08[07326 00175 56391 34357] V.Strong, RTTY QRM	(4m25s)	BR	FRI
13923kHz1940z	30/08[07326 00175 56391 34357] V.Strong, with QSB	(4m25s)	BR	FRI

16167kHz1900z	31/08[07326 00175 56391 56469] Fair	(4m25s)	PLdn	SAT
14663kHz1920z	31/08[07326 00175 56391 56469] Fair	(4m25s)	PLdn	SAT
13923kHz1940z	31/08[07326 00175 56391 56469] Fair	(4m25s)	PLdn	SAT

#### **XPA2 unclassified**

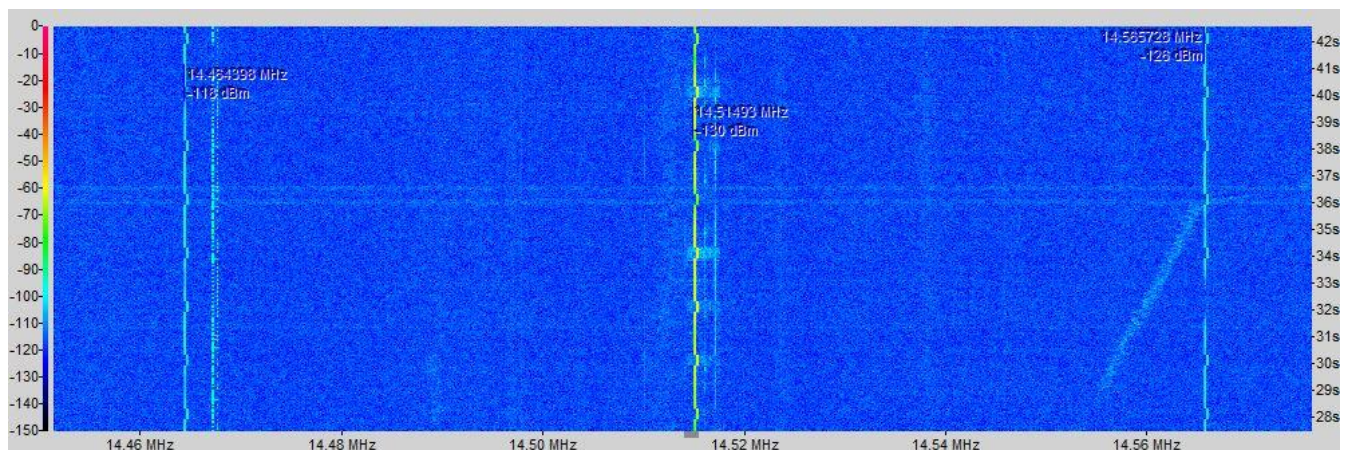
**July 2013:**

**Tue/Thu**

15884kHz1900z	02/07[01900 00001 00000 10140] Very strong	(2m11s)	BR,PLdn	TUE
14984kHz1920z	02/07[01900 00001 00000 10140] Very strong	(2m11s)	BR,PLdn	TUE
14384kHz1940z	02/07[01900 00001 00000 10140] Very strong	(2m11s)	BR,PLdn	TUE
15884kHz1900z	04/07[00437 00001 00000 10140] Very strong	(2m11s)	PLdn	THU
14984kHz1920z	04/07[00437 00001 00000 10140] Very strong	(2m11s)	PLdn	THU
14384kHz1940z	04/07[00437 00001 00000 10140] Very strong	(2m11s)	PLdn	THU
15884kHz1900z	09/07[07720 00213 95420 42643] Very strong	(4m54s)	PLdn	TUE
14984kHz1920z	09/07[07720 00213 95420 42643] Very strong	(4m54s)	PLdn	TUE
14384kHz1940z	09/07[07720 00213 95420 42643] Very strong	(4m54s)	PLdn	TUE
15884kHz1900z	11/07[07720 00213 95420 42643] Very strong	(4m54s)	PLdn	THU
14984kHz1920z	11/07[07720 00213 95420 42643] Very strong, QSB2	(4m54s)	PLdn	THU
14384kHz1940z	11/07[07720 00213 95420 42643] Very strong	(4m54s)	PLdn	THU
15884kHz1900z	16/07[04541 00001 00000 10140] Very strong	(2m11s)	PLdn	TUE
14984kHz1920z	16/07[04541 00001 00000 10140] Very strong	(2m11s)	PLdn	TUE
14384kHz1940z	16/07[04541 00001 00000 10140] Very strong	(2m11s)	PLdn	TUE
15884kHz1900z	18/07[01914 00001 00000 10140] Very strong	(2m11s)	PLdn	THU
14984kHz1920z	18/07[01914 00001 00000 10140] Very strong	(2m11s)	PLdn	THU
14384kHz1940z	18/07[01914 00001 00000 10140] Very strong	(2m11s)	PLdn	THU
15884kHz1900z	23/07[00789 00109 24272 52425] Very strong	(3m34s)	PLdn	TUE
14984kHz1920z	23/07[00789 00109 24272 52425] Very strong	(3m34s)	PLdn	TUE
14384kHz1940z	23/07[00789 00109 24272 52425] Very strong	(3m34s)	PLdn	TUE
15884kHz1900z	25/07[00789 00109 24272 52425] Very strong	(3m34s)	PLdn	THU
14984kHz1920z	25/07[00789 00109 24272 52425] Very strong	(3m34s)	PLdn	THU
14384kHz1940z	25/07[00789 00109 24272 52425] Very strong	(3m34s)	PLdn	THU
15884kHz1900z	30/07[01394 00001 00000 10140] Very strong	(2m11s)	PLdn	TUE
14984kHz1920z	30/07[01394 00001 00000 10140] Very strong	(2m11s)	PLdn	TUE
14384kHz1940z	30/07[01394 00001 00000 10140] Very strong	(2m11s)	PLdn	TUE
14738kHz2000z TUE	27/08[09437 00051 92276 63405] Fair	(2m50s)	PLdn	
13438kHz2020z	27/08[09437 00051 92276 63405] Weak	(2m50s)	PLdn	TUE
12138kHz2040z	27/08[09437 00051 92276 63405] Weak	(2m50s)	PLdn	TUE

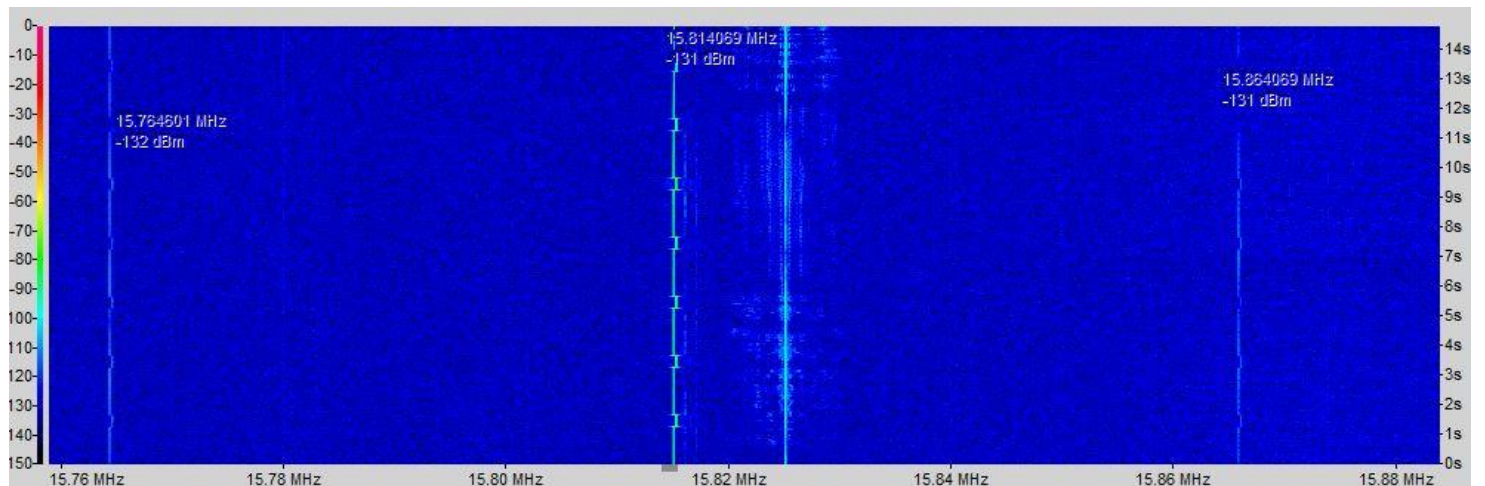
#### **August 2013**

16314kHz1900z	01/08[08845 00001 00000 10140] Very strong	(2m11s)	BR, PLdn	THU
15814kHz1920z	01/08[08845 00001 00000 10140] Very strong	(2m11s)	BR, PLdn	THU
14514kHz1940z	01/08[08845 00001 00000 10140] Very strong	(2m11s)	BR, PLdn	THU



14514kHz 1940z 06/08/2013 sending of XPA2 u. Note images 14465 and 14565kHz  $\pm 50$ kHz from nominal noted by RNGB and PLdn

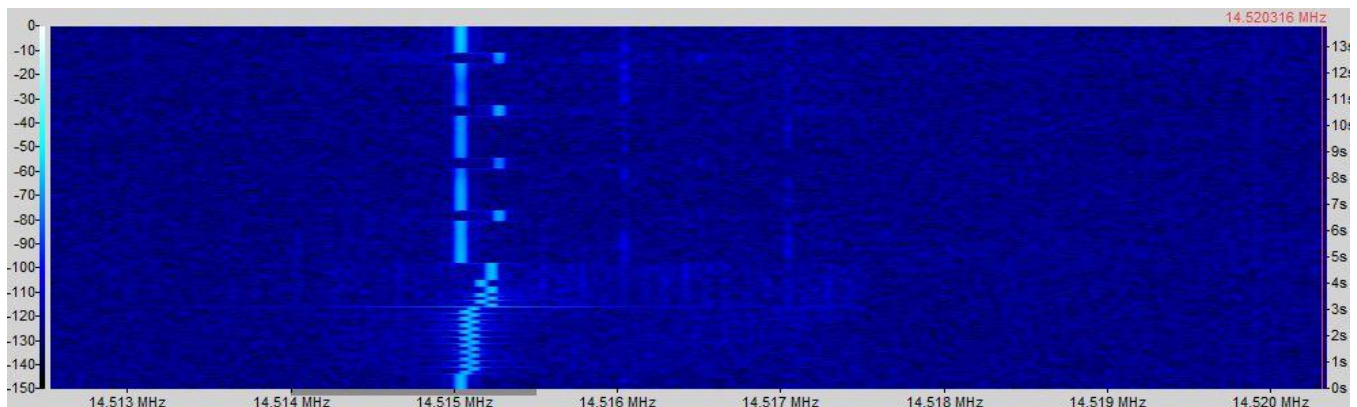
16314kHz1900z	06/08[06021 00001 00000 10140]	Very strong	images $\pm 50$ kHz nominal	(2m11)	RNGB,PLdn	TUE
15814kHz1920z	06/08[06021 00001 00000 10140]	Very strong	images $\pm 50$ kHz nominal	(2m11)	RNGB,PLdn	TUE
14514kHz1940z	06/08[06021 00001 00000 10140]	Very strong	images $\pm 50$ kHz nominal	(2m11)	RNGB,PLdn	TUE



XPA2 u 15814kHz1920z 08/08/2013 This seen across schedule

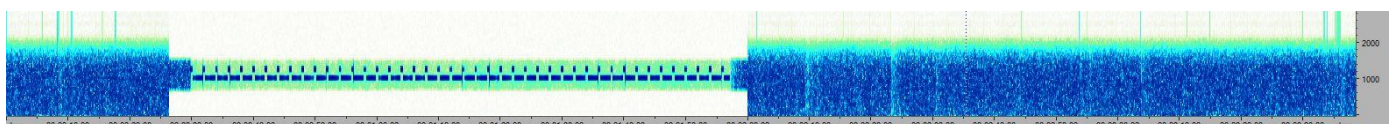
16314kHz1900z	08/08[01165 00001 00000 10140]	Very strong	images 50kHz either side of nominal	(2m11s)	PLdn	THU
15814kHz1920z	08/08[01165 00001 00000 10140]	Very strong	images 50kHz either side of nominal	(2m11s)	PLdn	THU
14514kHz1940z	08/08[01165 00001 00000 10140]	Very strong	images 50kHz either side of nominal	(2m11s)	PLdn	THU
16314kHz1900z	13/08[05489 00001 00000 10140]	Very strong		(2m11s)	PLdn	TUE
15814kHz1920z	13/08[05489 00001 00000 10140]	Very strong		(2m11s)	PLdn	TUE
14514kHz1940z	13/08[05489 00001 00000 10140]	Very strong		(2m11s)	PLdn	TUE
16314kHz1900z	15/08[04583 00001 00000 10140]	Very strong	images 50kHz either side of nominal	(2m11s)	PLdn	THU
15814kHz1920z	15/08[04583 00001 00000 10140]	Very strong	images 50kHz either side of nominal	(2m11s)	PLdn	THU
14514kHz1940z	15/08[04583 00001 00000 10140]	Very strong	images 50kHz either side of nominal	(2m11s)	PLdn	THU

Images were also seen at +2 and +3kHz HF of nominal freq eg on the 2040z sending on 14514kHz there were images on 14515 and 14516kHz; see below:



Images were also seen at +2 and +3kHz HF of nominal freq eg on the 2040z sending on 14514kHz there were images on 14515 and 14516kHz; see below:

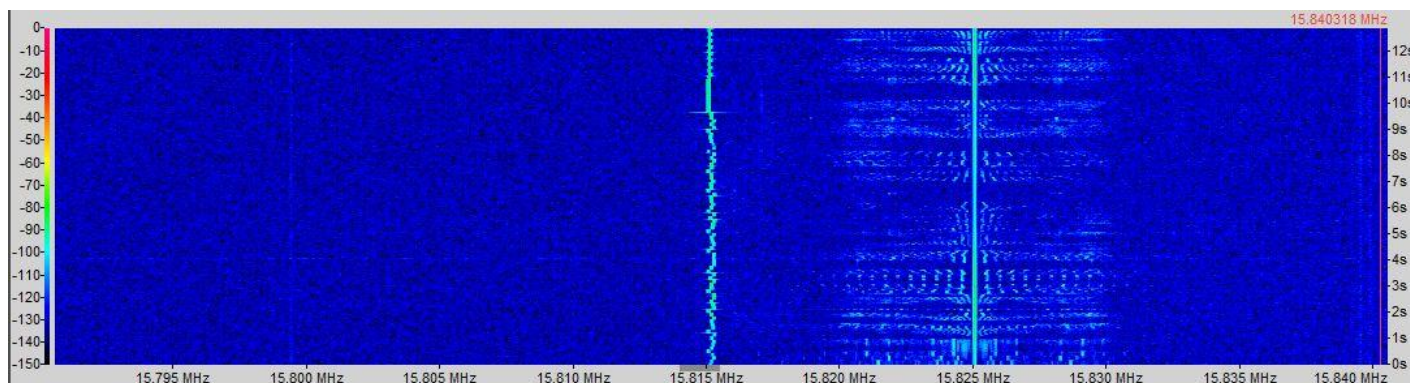
16314kHz1900z	20/08[09765 00001 00000 10140]	Very strong		(2m11s)	PLdn	TUE
15814kHz1920z	20/08[09765 00001 00000 10140]	Very strong		(2m11s)	PLdn	TUE
14514kHz1940z	20/08[09765 00001 00000 10140]	Very strong		(2m11s)	PLdn	TUE
16167kHz1900z	23/08[09096 00079 86207 40204]	Very strong		(3m11s)	PLdn	FRI
14663kHz1920z	23/08[09096 00079 86207 40204]	Very strong		(3m11s)	PLdn	FRI
13923kHz1940z	23/08[09096 00079 86207 40204]	Very strong		(3m11s)	PLdn	FRI
16314kHz1900z	27/08[02637 00257 73713 01677]	Very strong		(5m29s)	PLdn	TUE
15814kHz1920z	27/08[02637 00257 73713 01677]	Very strong		(5m29s)	PLdn	TUE
14514kHz1940z	27/08 Intro ceased 1m27s into transmission.				PLdn	TUE



14514kHz1940z 27/08 Intro ceased 1m27s into transmission



16314kHz1900z	29/08[02637 00257 73713 01677] Very strong	(5m29s)	PLdn	THU
15814kHz1920z	29/08[02637 00257 73713 01677] Very strong	(5m29s)	PLdn	THU



Second sending 29/08 illustrates no further image problems seen on signal

14514kHz1940z	29/08[02637 00257 73713 01677] Very strong	(5m29s)	PLdn	THU
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#### Others:

#### Tue/Fri

16318kHz0740z	02/08[00937 00287 65614 12737] Weak	(5m21s)	RNGB	FRI
16318kHz0740z	06/08[00768 00243 67706 44104] Weak	(5m17s)	RNGB	TUE
16318kHz0740z	09/08[00768 00243 67706 44104] Fair signal. 0700/0720z not found	(5m17s)	RNGB	FRI
16318kHz0740z	27/08[00794 00201 00588 35327] Fair	(4m44s)	RNGB	TUE
21918kHz0700z	30/08		GD	FRI

#### Digital, Incursions and Unexplained Signals

After what seems like months in the doldrums HF conditions seem to have at long last improved in the last month or so. During July I was even having problem receiving the usually strong weekend 08:00/10/20 FSK200/1000 schedule and the Saturday 12:00/10/20 FSK200/500 schedule.

Firstly reports on a few modes of interest to this desk report ..

#### FSK200/500

The only regular schedules remain the Thursday 19:00/10/20 and the Saturday 12:00/10/20 although I remain sure there are others out there still to be found. No actual messages were sent during July and August just the usual 00000++++++162)5761 repeated for 6 or 7 minutes signalling a null message.

#### FSK200/1000

No new schedules have appeared and the link ID 28724/28725/28732 and 53277 which appeared for one week in May have not yet reappeared. The usual schedules listed in the last newsletter remain operating with no unusual changes in their traffic levels. The "special" link ID 00000 was logged just the once at 17:20 on Friday 9th August 2013 with a 22 block message. This link ID does seem to make the odd appearance at 17:00/10/20/30/40/50 on Fridays so if you have a spare moment then its always worth looking for.

Members interested in monitoring these modes are reminded that the latest FSK200/500 and FSK200/1000 monthly frequencies can be found on my online spreadsheet ..

<http://goo.gl/i6ZXE1>

#### POL FSK

No reports received on this possible digital member of family III. This station appears to sent one transmission on the hour then another five minutes. Each transmission only lasts a couple of minutes however and they aren't easy to find.

#### CROWD36

No reports of this mode from group members. Digi Desk has been keeping an intermittent look out for this mode and there appear to have been no changes.

Due to work and home commitments I haven't been able to spend as much time as I would like working on Rivet the groups free data decoder program. However some progress has been made fixing a few small bugs and making some changes to the programs user interface. As I write this the latest version is build 85 which can be downloaded from the usual place .. <http://borg.shef.ac.uk/rivet/>

Now for something a little different. Those of you who regularly search the HF band looking for signals of interest are highly likely to have come across burst type transmissions which make a “buzz buzz buzz” type noise and usually last for 10 minutes or so. A sample recording of this is online here ..

<http://borg.shef.ac.uk/rivet/dprk600600.wav>

What you are hearing here is a North Korean diplomatic/intelligence mode. It is a FSK (Frequency Shift Keying) mode which transmits data at 600 baud with a 600 Hz shift. This mode goes by a variety of names but we shall call it DPRK 600-600. Note that there is a variant of this mode which transmits data at 1200 baud however I have yet to come across this and shall concentrate on the 600 baud version. Reception of transmissions from North Korea is difficult from Western Europe yet I come across this mode at least once a week so I was a little puzzled. However it is believed the transmissions originating from North Korea are being relayed to the embassies in Europe via Moscow. However I have received these transmissions when conditions were so poor that stations known to be transmitting from Russia were weak and noisy. Due to that I do wonder if the North Korean's have a HF packet radio network where messages from say North Korea to Paris can be relayed via a variety of embassy stations depending on HF conditions. That would be both fault tolerant and fit with the North Korean philosophy of “Juche” which roughly translated means “self reliance”.

Since the start of the year I have been trying to find some regular schedules for this mode so I could give you some frequencies and times to listen when you could hear it. The problem is while I found the mode in use on many frequencies there didn't appear to be any pattern to the time of the transmissions. Sometimes short lived schedules do appear as in April 2013 when there would be a daily transmission at 06:00 on 10548.5 KHz and in January when there were regular 12:00 or 13:00 transmissions on 16317 KHz. At this moment however I know of any regular schedules and advise that you watch the groups mailing list for information about any that may appear.

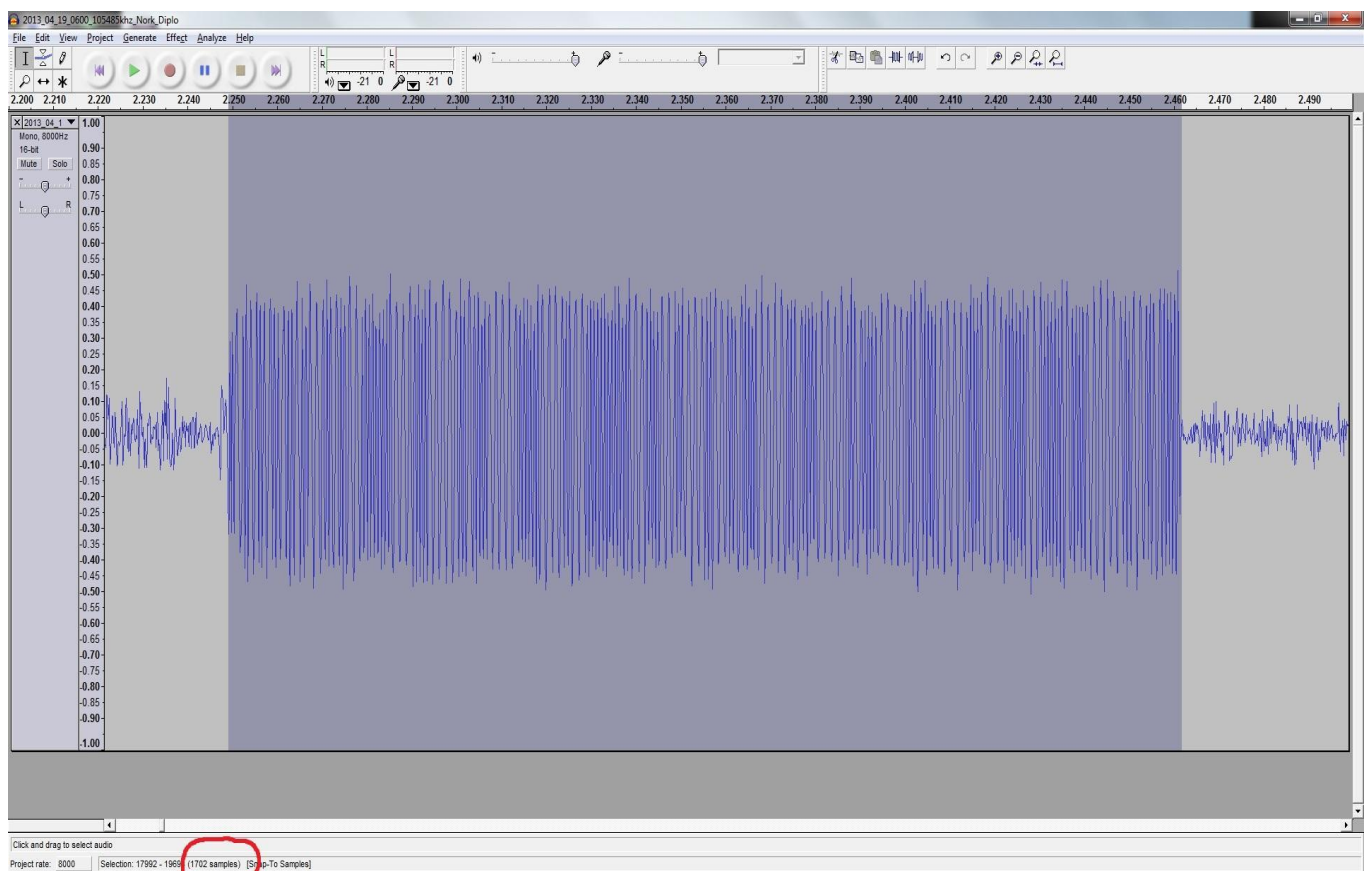
Next I decided to search the online literature for any information about this mode as it made little sense to spend ages rediscovering what was already known. I wasn't greatly surprised however to find that there wasn't much. Sadly this mode is like many on the HF bands in that it will most likely carry no plain text unencrypted messages. That appears to mean most listeners will have no interest in it and that in turn means the companies and programmers who create the decoders have little interest in it either. The best information was on data mode expert Leif Dehio's website ..

<http://signals.taunus.de/FFT/KRE-ARQ600.HTML>

and ..

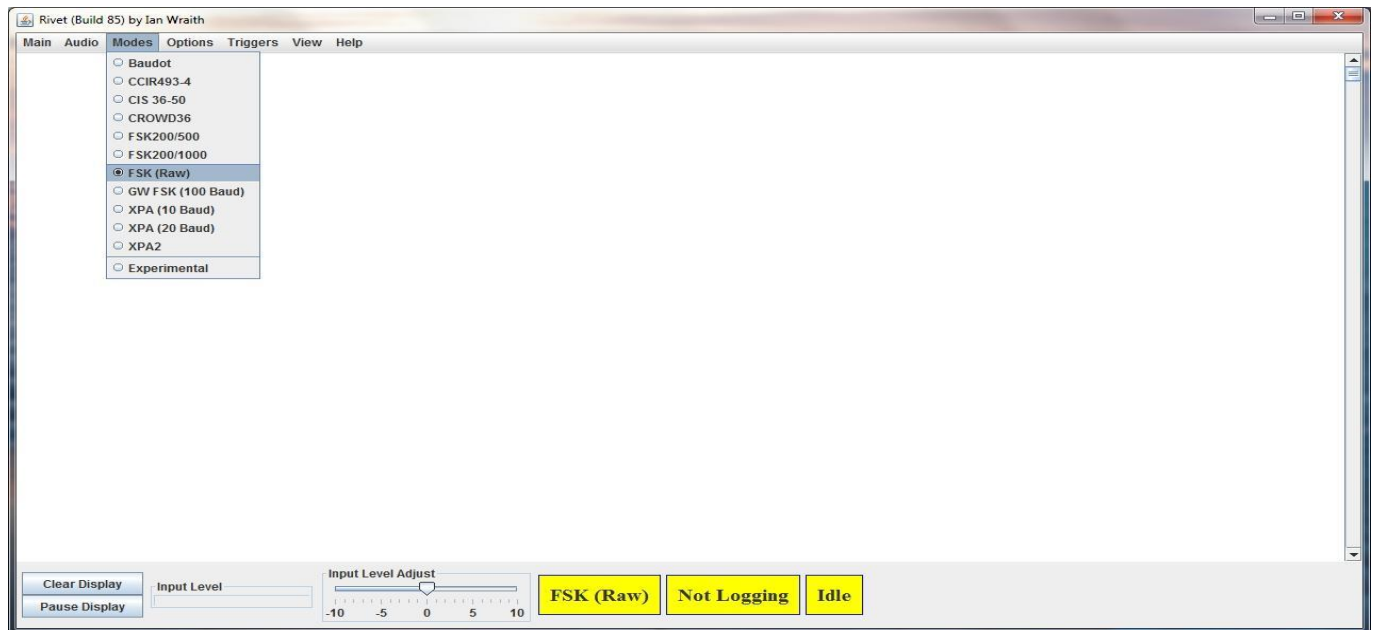
<http://signals.taunus.de/FFT/KRE-ARQ1200.HTML>

The first thing I wanted to do was to find how many bits are transmitted in each frame (or burst) transmitted. To this I use a free and open source audio editor called Audacity. I then loaded an example of this mode I had recorded earlier using the “View” menu set the selection format to “Samples”. Next I zoomed in to a particular burst and set the cursors to the start and end of that burst so I saw the following ..

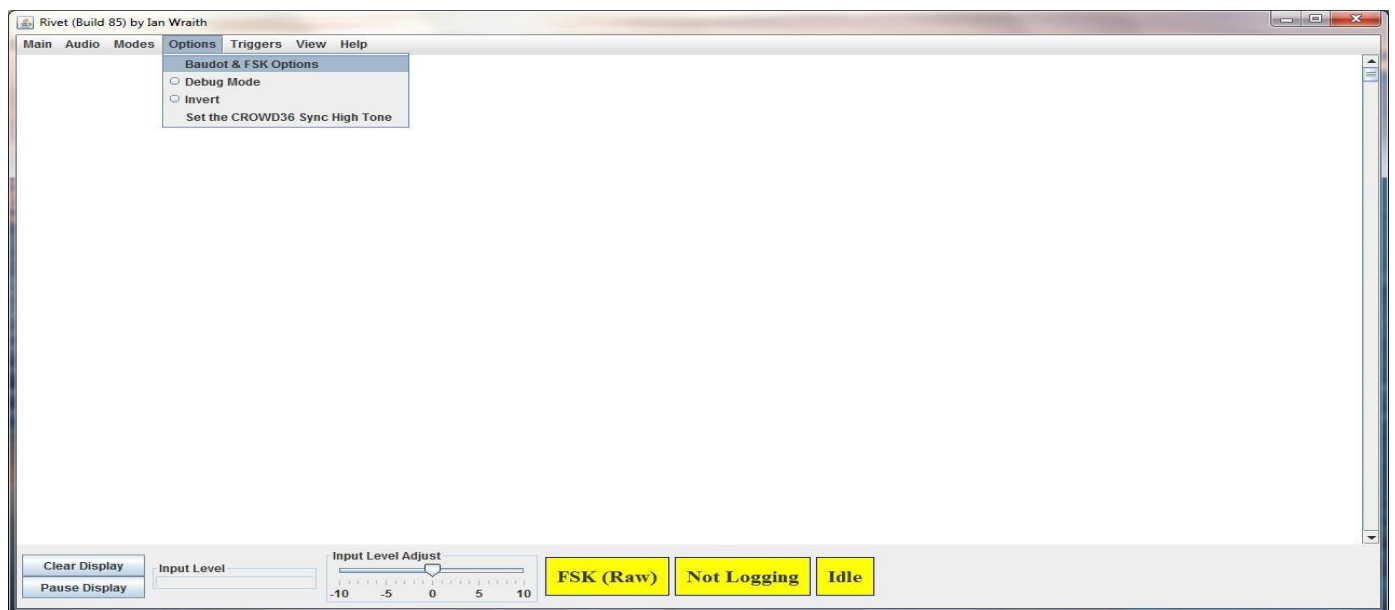


Now I know that screenshot probably isn't large enough to be properly visible but the important number is circled in red. That is 1702 the number of samples in the data burst. Now that WAV file was recorded with a sample rate of 8000 Hz. So as the baud rate is 600 to calculate the number of samples per bit we divide 8000 by 600 which gives 13.3333 (recurring) so if we now divide 1702 by 13.333 we get 127.65. So allowing for error this means there are most likely 128 bits transmitted in each frame.

Your next question is probably “Can Rivet decode this mode?”. Well it doesn’t have a specific DPRK 600-600 decoder module but it can be used to investigate any FSK mode by using its “FSK (Raw)” mode. This takes FSK data and displays it as raw binary information for further analysis. To do this first start up Rivet and select FSK (Raw) mode ..



Next click on the options menu and select “Baudot & FSK Options”



Then in the dialog box that appears select “600 Baud” and “600 Hz” shift ..



Don’t worry about the “Stop Bits” option which isn’t used by this mode.

Now you are ready to look at a transmission. So load in a WAV file recording of this mode (if you have made it yourself it needs to be 8 KHz , 16 bit and mono) all being well you should see something like this ..

16:04:43 FSK Sync Sequence Found

100100000001100110011010101001110100010011001110110001110001111010111011001110101010001110101100101110011000111000111011111 (126 bits received)

16:04:43 FSK Sync Sequence Found

0110010110011010011001001010011001110110011000111000111101011001001110110101111011110110101111011011110001111110 (116 bits received)

Notice how in neither case Rivet says it has received 128 bits. This is for the simple reason that to detect the frequencies used for a FSK transmission Rivet hunts for 0 to 1 or 1 to 0 transition with the correct shift. So if the transmission starts with a sequence of 0's or of 1's then these will be missed.

What does all of that mean ? Well its complicated and I will explore that in a future desk report.

That's all for this desk report. Please help out and send the group your logs for FSK200/500 , FSK200/1000 , POL FSK , CROWD36 , DPRK 600-600 or any mode which may be diplomatic or intelligence related.

Tnx Digi Desk!

**An interesting piece of news offered by AnonNI who saw this on QRZ.Com:**

**80m ham radio band used for wideband video/data [G4TUT]**

Taken from: <http://forums.qrz.com/showthread.php?402279-80m-ham-radio-band-used-for-wideband-video-data>

**80m ham radio band used for wideband video/data**

Trials in the UK have used 3.613 MHz for 24 kHz bandwidth high-speed data and video transmissions

In recent years there has been increasing military interest in high-speed data on HF.

By using modern modulation techniques a SSB channel can support a raw data rate of 12800 bps and wider transmissions can support proportionally faster data rates. Trials have shown that color video at 15 frames per second can be streamed on HF in a bandwidth of just 18 kHz. That is the type of bandwidth that may be accommodated in the amateur radio 29 MHz band.

In the UK HF trials have taken place between Blandford and Portsmouth (Portsmouth), and Arbroath and Portsmouth. They used frequencies, licensed by Ofcom, of 3.613, 6.390, 7.975 and 13.047 MHz with bandwidths up to 24 kHz and power up to 400 watts.

Information on these trials can be seen at  
[http://www.hfindustry.com/meetings\\_p...Trial\\_2012.pdf](http://www.hfindustry.com/meetings_p...Trial_2012.pdf)

USA trials of video streaming over a 1320 km HF path  
[http://hfindustry.com/meetings\\_prese...TA\\_Results.pdf](http://hfindustry.com/meetings_prese...TA_Results.pdf)

Military Aerospace reports that short wave radio (HF) is being considered as an alternative to Satellite communications (SATCOM)  
<http://www.militaryaerospace.com/blo...nications.html>

[http://www.southgatearc.org/news/aug...video\\_data.htm](http://www.southgatearc.org/news/aug...video_data.htm)

Taken from: <http://forums.qrz.com/showthread.php?402279-80m-ham-radio-band-used-for-wideband-video-data>

We really know the meaning of 'secondary user' now!

*Before we move to the regular sections we present a piece written by old friend of ENIGMA 2000 Eric Baake that concerns the now defunct XPA schedule 0440/0540z and the E06 759 schedule. [If you read Eye Spy Mag Nr 84 and 85 there is more detail]:*

We start with a clip that was conveniently sent in by 'E' and which answers some questions raised by the reading of Eric's piece:

**Germany jails Russian couple after 20 years of spying**

Tony Paterson

Berlin

<http://www.independent.co.uk/incoming/germany-jails-russian-couple-after-20-years-of-spying-8683967.html>

They called themselves Andreas and Heidrun Anschlag and for more than 20 years, the unobtrusive Russian couple lived in Germany spying against the West - first for the Soviet Union and then for Vladimir Putin's Russia.

But today, Sascha and Olga - prosecutors and police admitted that they only knew the couple's first names and had been unable to find out their full identities - were sentenced to a combined total of twelve years imprisonment by a Stuttgart court. They were convicted of running an espionage operation against NATO, the European Union and Germany which outlived the Cold War.

"We have only scratched the tip of an iceberg which grew over a period of over 20 years," the presiding judge told the court as the pair - both in their fifties - were sentenced.



The court heard how Olga was caught “red handed” by German counter espionage agents in 2011 while she was receiving messages from her Russian spymasters on a short wave radio receiver at her German home. State prosecutors said the evidence against the couple was irrefutable.

The two agents were found to have recruited a Dutch diplomat in the Hague who supplied them with top secret NATO and EU documents downloaded onto USB sticks which they subsequently supplied to the Russians. The information included top secret details about NATO missile defence systems and its operations in Libya, Afghanistan and Kosovo.

The couple used so called “dead letter boxes” - in reality holes in the ground in woods near the former West German capital, Bonn - to conceal the USB sticks. The material was later retrieved up by staff from the Russian consulate and dispatched to Moscow. State prosecutors said more than 500 documents were sent to Russia.

The couple refused to speak during nearly all of their six month trial. Sascha broke his silence only once to complain about the conditions in Germany's Stammheim prison where he is being held. “It is a s\*\*\* hole and a disgrace for Germany,” he told the court.

Legal experts said the pair could expect to see their sentences cut by a least a third for good behaviour. They also faced the possibility of being exchanged for German agents currently being held in Russia.

<http://www.independent.co.uk/incoming/germany-jails-russian-couple-after-20-years-of-spying-8683967.html>

and now on to Eric's splendid piece .....

### **THE NAMES BEHIND THE NUMBERS By Eric Baake**

On Tuesday 2 July 2013, "Germans" were sentenced to terms of imprisonment for espionage in a court in Stuttgart . The married couple are thought to be Russian illegals who had resided in Germany for a number of years. What is interesting is that they were controlled by numbers and the case brought information concerning the shadowy world of numbers stations into the public domain.

Andreas and Heidrun ANSSCHLAG had spent 20 years spying in Germany and resided in the town of Mickelbach, Hesse, Germany. Although apparently German, an SVR radio message reminded them (when the numbers were decoded) that, they were in "the land of the enemy." The war didn't end in 1945 for Russian Intelligence and interestingly the SVR refers to illegals as "whizz kids!" The couple had been receiving radio messages since 1988 according to German security.

In 1984 a lawyer visited the village of Wildalpen, Austria to register Andreas as a resident. He had apparently been born in Argentina in 1959 and was stated to be of Austrian descent. His application was approved on forged documents into a village of 500 people. The KGB apparently paid a bribe to a local official to register his residency. Heidrun also had a lawyer put in a birth certificate to indicate that she was born to an Austrian woman in Peru in 1965. Andreas and Heidrun are thought to have been married before they appeared in Austria but went through another wedding ceremony in Austria.

The couple then applied for Austrian passports and moved to Aachen in West Germany. Andreas studied mechanical engineering and in 1991 a daughter was born. The couple moved again to Marburg in Germany in 2010.

Andreas had a job with a motor part manufacturer some 217 miles from his home thereby allowing him to travel and be away for long periods of time, as he explained to neighbours. He also rented a flat near his workplace giving him an alternative base. Their short wave messages came from Directorate S of the SVR and they were known as Pit and Tina in signal traffic.

They were also given satellite transmitters in St Petersburg and Moscow and undertook a course on using a decoding program called SEPAL and an encoding system called PARABOLA.

This satellite system provided a secure communications link to Moscow and messages were sent at times when 6-8 satellites were within range of their home. A red light on their special radio indicated that a satellite was approaching and a blue light indicated when to send an encoded message.

Sometimes the equipment could not pick up messages nor could they broadcast information so they would put the transmitter below an attic window, in the garden or on a nearby hill to link up with the satellite. The hill was found to be unsuitable because wind turbines interrupted communications with the satellite. Several nations wanted to see this radio after their arrest. It was described as being like a hard-drive with a telescopic aerial in its own bag.

The couple sent material over the airwaves to Moscow or via a dead letter box. They also used comments on Facebook to communicate. Their material seems to mainly have come from the Dutch Foreign Office traitor Raymond POETERAY who was jailed for 12 years in April 2013 for espionage. He had betrayed information on the EU and NATO since 2008 and was motivated by money as he had a sick wife and debts.

Andreas would drive to the Hague on one Saturday each month to receive material from the Dutch agent. He received 72,000 Euros for his treachery and supplied papers and homework whereby he reported on colleagues and gave opinions on key foreign policy and defence issues.

Andreas also received symbolic promotions from the SVR and was made a department manager even though he didn't have a department. When he travelled anywhere from work he would sign himself in to hotels as a department director so he did seem to suffer from vanity (and presumably didn't disclose which "department" he really worked for!)

In court it emerged that the couple were caught due to an Austrian tip given to the German government.

The couple initially pleaded not guilty, presumably to find out how they were caught and then later changed their plea to guilty.

The Russians knew they were in danger and had ordered them home. They were instructed to dismantle their satellite set and throw it in deep water. German security raided their flat as Heidrun was receiving a message and she apparently fell off her chair. She told police that she was "only responsible for technical matters" but later admitted that she spied for Moscow.

It seems now that Germany will exchange them.

It is likely that the use of Latin American covers gave them away perhaps following the revelations of a Russian defector whose information also led to the uncovering of the Anna Chapman spy ring in the USA.

Investigations into other agents continue and the German authorities believe that agents "in double digits" remain undetected on German soil. They stated that "radio messages to agents, directed at Western Europe, continue." The couple's daughter, who is a student, didn't know that her "German" parents were spies and was unaware that they were actually Russians.

It is unclear if she will also go to Russia. Their strange accents were explained by having been in Latin America for many years.

The large network of illegals uncovered in the USA in 2010 also revealed information on spy communications following FBI investigations. They seemed to use polytones for radio communications with Moscow and the FBI called them "radiograms." A bug in a spy's flat detected an incoming message which was decoded using grids drawn on paper.

It would be interesting to know who receives the broadcasts. Who are they and where are they? How much damage are they doing? They can move around without being observed and nobody knows they are here, perhaps supporting high value assets?

Listening to number stations into the early hours they could easily be mistaken for being ENIGMA.

*Many Thanks for this Eric!*

#### PoSW's Items of Interest in the Media:-

East Anglia welcomes keen to learn Libyans; I am not sure how much coverage this story received in the national broadcast media, but it was the lead story in the news bulletins on our local BBC station, Radio Cambridgeshire, throughout the afternoon of 9-July, and it was given a couple of column inches in the *Metro* free newspaper the following day. "Libyan troops to fly in for Army training" is the headline and says, "About 2,000 Libyan troops are to be brought to Britain for training, ministers announced yesterday. They will fly in groups for ten-week courses in leadership and basic infantry skills at Bassingbourn Barracks in Cambridgeshire. The Libyan government, which is working to restore stability after the downfall of the Gaddafi regime, will vet the recruits and pay for the training. Those completing the courses will be reintegrated into the Libyan army".

I think bets are already being taken as to how many Libyan trainees will utter the magic words "I claim asylum" as soon as they set foot in the UK.

Communists to get their comeuppance - maybe:- one of the most remarkable things about the fall of communism in Eastern Europe was that the ruling elite in these countries got away with it. Millions upon millions of people were worked to death in labour camps in the communist countries and yet there was no equivalent of the Nuremberg trials to bring the worst of them to some form of justice; the last generation of communist oppressors when they realised the game was up and it was all over just threw away their hammer and sickle badges, re-invented themselves as free-market capitalists and carried on in power. Many former communists from former Eastern Bloc countries now have prominent positions in that corrupt madhouse called the European Union and as such help to make laws which British people are forced to obey. However, there is news that in Romania at least some of them might be made to answer for their actions. "Brutal gulag guards may now face justice" is the headline over a short piece in the *Metro* of 12-July, and says, "They slammed doors on prisoner's fingers, beat the soles of their feet, burned them with cigarettes and worked inmates until they dropped.

Finally, after decades of denial, the guards of Romania's communist gulags where 120,000 people died could be held to account. The names of 35 guards, now in their 80s and 90s, are to be handed over to the authorities next week for possible prosecution. Former detainee Caius Mutiu, 79, was almost shot after he collapsed from hard labour. He lived on a diet of cabbage, potatoes and barley soup. 'I counted 14 grains of barley, it was basically hot water,' he said. He also recalled seeing people die of starvation: 'Their bodies swelled up before they died.' Andrei Muraru, executive director of the institute investigating communism era crimes, said: 'Those who produced so much suffering and terror have to pay, even if they are 80 or 90.' But former guard Ion Ficior denied mistreating prisoners. He claims inmates at his labour camp had been Nazi sympathisers who 'deserved to stay in prison to feel what their crimes were like' "

The effects of Anno Domini on former associate of people in high places; no doubt we are all familiar with the way some ladies, God bless 'em, go downhill with the passing of the years, sagging boobs and stretch marks at the very least. The *Mail on Sunday* of 25-August had a piece on the current state of one who rocked the British Establishment half a century ago. "A femme fatal no longer....Christine Keeler 50 years on" is the headline on an article by Chris Hastings and says, "Dressed in a shapeless top and sandals and pulling a plastic shopping trolley, it is difficult to imagine that this woman was once one of the world's most photographed - and infamous - beauties. But the pensioner here is Christine Keeler. Her sexual liaisons 50 years ago with Tory Minister John Profumo and a Russian military attaché based in London led to one of the biggest political scandals of modern times. This is the first time Keeler has been photographed in public for seven years, and the 71 year old is unrecognisable from the fresh-faced model and showgirl who found herself embroiled in the Profumo affair in 1963. Although she revelled in her notoriety at the time and sold her story to newspapers all over the world, Ms Keeler now lives in a sheltered accommodation block in South London, and is estranged from her two sons.

The scandal happened at the height of the Cold War when it was discovered that Keeler had been sleeping with both Profumo, the then Conservative Minister for War, and Yevgeny Ivanov, a naval attaché based at the Russian Embassy in London. Keeler and Profumo began their affair after being introduced at a party at the Cliveden estate in 1961 by their mutual friend Stephen Ward, a high-society osteopath and portrait-painter.

Profumo, who was married to actress Valerie Hobson, had no idea that Keeler was also sleeping with Ivanov. In March 1963 he told the House of Commons that rumours of his affair were untrue, but he was forced to resign three months later after admitting he had lied. Ward, who was prosecuted for living off immoral earnings, took an overdose the day before his trial ended and died on August 3, 1963. Keeler was found guilty of unrelated perjury charges and was sentenced to nine months in prison. The passage of time has done little to diminish the public's fascination with the scandal. Andrew Lloyd Webber has written a musical, *Stephen Ward*, due to open in December. It is understood Keeler declined to co-operate with the project".

And Mr Hastings' article includes two photographs of Ms Keeler; one from 1963, nice!, and one from the present day - no comment. As The Who put it, "Hope I die before I get old". I recall that when a photograph of Ms K was last in the newspapers a few years ago she was shown leaving a store carrying a large box of cat litter which suggests she was sharing her life with a quadruped of the feline variety. It struck me at the time that it was great that even after all these years she was still taking care of her pussy.



Image courtesy:

<http://www.zimbio.com/pictures/Kuc2C4qJmrH/Christine+Keeler+unrecognizable+71/feCxpSAKERg>

Vox Populii, Vox Dei; it may or may not be the case that the Voice of the People is the Voice of God, but often the most intelligent and and worldly – wise content of any newspaper is to be found on the letters page, or in the comments section of a newspapers viewed on line. The following are offered as evidence that whatever the politicians of all the parties may say, there are many who can see through it all:-

From the *Daily Telegraph* on-line of 22-June, a comment on an article on the general state of party politics in the UK from someone calling himself “Kieran 84”:-

“This is all a pantomime. None of these people believe in anything any more. Apart from being in office, that is. You are not voting for Conservative or Labour folk, you are voting for an elite class on a career path who will adopt whatever they have to to get power”.

From the *Observer* on-line of 30-June, a comment on a piece about the winding down of the British presence in Afghanistan from “Rooster booster 198” Perhaps apologies for some of the language are in order:-

“How much was it that we've pissed away there? £33 billion was it? Plus hundreds of soldiers dead, thousands physically or psychologically crippled, costing us many millions in the future for care, lost income tax etc., increased risk of terrorist attacks at home, the reputation of the British Army diminished.

So what was it for really? No bollocks about 9/11 or bringing democracy to a people who've never had it and don't give a shit about it, please. Securing a permanent military presence for when the fighting over central Asian oil and gas begins? Securing the pipeline? Ensuring the opium crop gets back to full production? (the money is laundered through Western banks). Ensuring a permanent state of low – level warfare to justify blanket domestic surveillance and vast profits for the military industrial complex? Surrounding Iran with hostile forces?”

Well said, Mr Booster, well said.

No bombings in Birmingham:- worth emphasising because an exercise to test the English Midlands city's response to a terrorist attack was held recently, and when a similar event was held in London a few years back on the very same day there were terrorist bombings on the public transport system which gave rise to all sorts of speculation about “false flag” operations and conspiracy theories in general. The *Metro* newspaper of 16-August carried a piece by Dominic Yeatman headlined, “Facing the terror threat head on”.

It came complete with a surreal looking photograph of a close-up of an individual wearing a full-face and head covering respirator with the caption, “A police officer wearing a gas mask prepares to storm the International Convention Centre in Birmingham yesterday. The story says, “Terror was unleashed on the streets of Britain yesterday – but it was all part of a mock exercise to gauge how we would react to an attack.

The simulated drill saw the release of a chemical into a conference centre where 150 volunteers took on the roles of extremists or victims of a gas attack.

Police officers, fire-fighters and members of the Army descended on Birmingham's International Convention Centre for the operation which was part of a major European exercise.

While the exercise gave the emergency services the chance to evaluate their procedures, the reactions of the volunteers were observed by researchers from King's College, London.

Dr Brooke Rogers, senior lecturer in risk and terror, said the study would provide a 'vital tool' for effective disaster response plans.

'This exercise will provide valuable new insights into emergency response and challenge many of the traditional assumptions about how the public reacts during an emergency.'

The terror training day, coordinated by West Midlands Police and CBRNE Ltd, comes ahead of similar exercises in Sweden and Poland.”

And finally, from the *Sunday Telegraph* on-line of 4-August, a comment on a piece about Parliament from one, “Alex Neil”:-

“I believe politics to be dead and no longer fit for purpose. The Palace of Westminster should be immediately converted from the rats nest it currently is into something a little more upmarket, like a brothel”.

This one had 52 “likes” when I saw it!

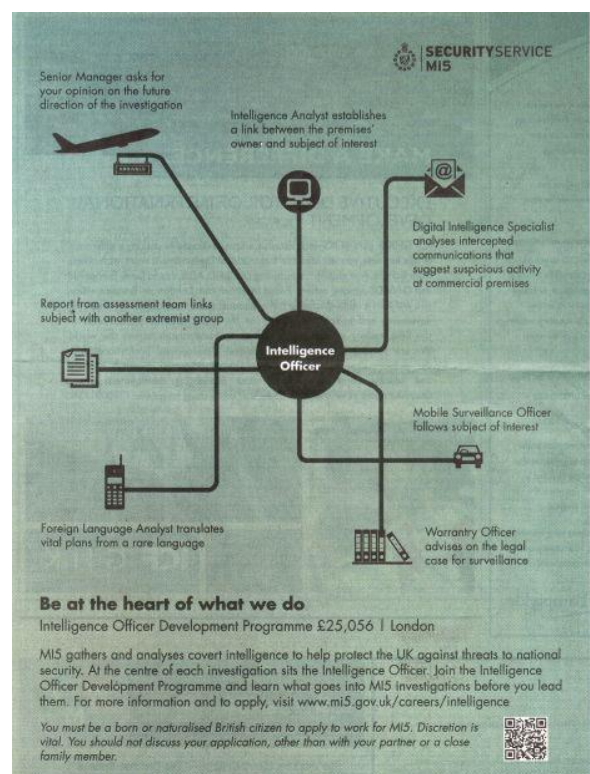
Excellent Peter. Many thanks!

**Gizza Job!**

An interesting advertisement sent in by E

Obviously looking at the role of an Intelligence Officer the graphic shows certain inputs to the role to make it function.

Looks an interesting job.





## CURRENT AFFAIRS OFFICERS

An office of the US Embassy London based in Berkshire is looking to recruit a full time officer specializing in Middle East current affairs.

Duties will include coverage of media developments and breaking news, production of translations and multimedia, web content management, research, and written analysis. The positions will occasionally involve working evenings and weekends.

Qualifications:

- Knowledge of Middle East current affairs and media (degree-level or equivalent)
- Working fluency in Arabic and the ability to translate into English from Arabic
- Strong English writing skills
- Strong technical skills and knowledge of social media, web content management and digital media tools
- Self motivated individual with proven team working skills and flexibility

This position offers career opportunities, competitive salary and benefits package, including paid holidays and private health plan.

Starting salary: £27,000-£34,000 per annum subject to experience.

Please apply by email to [LondonApplicants@state.gov](mailto:LondonApplicants@state.gov) by COB 29 July 2013. The subject line of the email should read "Arabic Current Affairs Officer" and you must include the following:

- **Cover letter** identifying how you meet the above qualifications and clearly stating your interest, qualifications and language expertise
- **CV** (Please note that as an equal opportunity employer, we ask that you do not include your gender, race, religion, date of birth, age, marital/family status within your CV.)
- **Scanned documentation** in support of your legal right to work in the UK, e.g. citizenship or residency, in accordance with the Asylum and Immigration Act 1996 (Please note that applicants not providing this information in their application will not be considered.)

Only short listed candidates will be notified within 14 days of the closing date.

Here's an interesting post – Berkshire and ME current affairs. Not good wages IMHO for what they're asking for.

Perhaps they should be employing Robert and Dana Baer; American and can offer all they ask, and more besides.

[See the film *Syriana* – apparently based on Robert's experiences whilst a CIA Case officer]

Robert is fluent in Arabic, Farsi, French, German and his native English. He is also conversant in Russian, Tajik, and Baluch.

It's a known fact that ENIGM2000 can offer five of the above languages plus of course, English.

Thanks for this 'E'

### Other News items

#### MI5 spy cleared of assaulting ex-girlfriend

Man accused of violent campaign to win back fellow spy argued that her complaints were retribution of a woman scorned

<http://www.guardian.co.uk/uk-news/2013/jul/04/mi5-spy-cleared-assault-ex-girlfriend>

An MI5 spy has been cleared of assaulting and harassing his former girlfriend, a fellow agent in the Security Service.

The man, referred to by the pseudonym Mark Barton for security reasons, and his ex-partner broke up in July 2011 after an argument while watching Andy Murray losing a tennis match at Wimbledon, Southwark crown court in south London heard.

He was accused of embarking on an "obsessive, intimidating and violent" campaign to win her back over the next five months by bombarding her with text messages and phone calls, and allegedly attacking her on two occasions.

But a jury cleared the 29-year-old of two counts of assault by beating and a further count of putting a person in fear of violence by harassment, after two hours of deliberations. A sexual assault charge was dropped during the trial.

The pair met while working for MI5 in 2009 and began a relationship in 2010, before splitting in July 2011.

The complainant was referred to in court by her work pin number, 2363, in a case conducted amid tight security to protect identities. The defendant and witnesses were screened off from the public and press, and all MI5 witnesses gave evidence under numbers.

Barton, who denied all the charges, stood behind a screen to ensure he was not seen by the public gallery as the verdicts were read out.

During the trial Barton denied ever threatening violence towards his ex-girlfriend. "That's a ridiculous suggestion," he told the court. "That's absolute, total nonsense. I've never been physically aggressive to her in my life."

Asked whether she had ever been scared of him, he said: "There's absolutely no way she was frightened whatsoever."

He had only ever wanted to build a relationship with a woman he loved, Barton told the court. He acknowledged he may have made mistakes by being too persistent but believed the pair could have rekindled their relationship, the court heard.

Barton told jurors there were times when 2363 was insecure about his friendships with other women. "There were occasional instances where she was quite insecure, probably jealous of any female contact that I had," he said.

On one occasion, when 2363 took a train back to London after visiting her family for a bank holiday, Barton arrived at Euston station and grabbed her telephone, the court heard.

Later that night, on 30 August, Barton emailed her to apologise, saying he was "desperate", and then sent another email saying he had been "a massive tff".

He asked: "Is it stalking if I send multiple emails without ever getting a response?"

The complainant reported Barton to their spymaster chiefs and he was warned. But the pair continued to meet on and off as friends over the coming weeks, having dinner at her home on 8 October and sharing a kiss.

Barton was accused of assaulting 2363 by pushing her into a bus stop on 3 November and after she left work drinks on 1 December. But he denied being violent in either incident and said on one occasion he had simply grabbed her wrists as she was about to hit him.

After Barton was arrested he told police that 2363 was "a woman scorned and has decided to take retribution in the most painful way she knows ... through costing me my job potentially".

<http://www.guardian.co.uk/uk-news/2013/jul/04/mi5-spy-cleared-assault-ex-girlfriend>

*\*All witnesses from MI5 gave evidence under numbers\**

*The evidence from Barton will be decode key 134 and have 230 groups, each repeated and sent in fast Morse; for the direction of the Jury 2363 will reply in polytone!*

S.P.O.N. – IN Doubt left: Five eyes for Angela.

A column by Jakob Augstein.

GCHQ-equipping in Menwith Hill.: The totalitarianism of the Security thinking.

The greedy Data collectors in the USA and Britain have no right to investigate German citizens. The Federal Republic must protect its people from the attacks of foreign security services. It must act now. Because it is about national security.

"The security of the Federal Republic is also defended on the Hindukusch Mountains" a German Defence Minister has once said. Thus one can expect the security of Germany to be defended by the Federal Republic at its own front door. Because the grand scale spying out and storing of Data of all types, of citizens and undertakings, of newspapers, Parties, authorities- is at the end, nothing more than that: a question of security. Here it is concerned with the rights of a state. And it is to do with the national security.

ANNOUNCEMENT.

We live in changing times. At the beginning of last week, we thought that after the announcement of the American programme "PRISM", US President Barak Obama alone was the head of the biggest and most total checking system, that had ever been known to man. That was a mistake.

Since last Friday, we know: The English Intelligence service is "worse than the United States." Edward Snowden has said that, the IT expert who has disclosed the worst surveillance scandal of all time. American and British security services are carrying out surveillance on all possible forms of data communication. And what is our Federal Chancellor doing? She says "The internet is new territory for us all."

That is not enough. In the coming weeks, this Federal Government must show that it has a duty to its citizens and not to an intelligence-industrial complex, which abuses our lives like a data quarry. Justice Minister Sabine Leutheusser-Schnarrenberger hits the right note, when she spoke of a "mountain dream a la Hollywood."

UNHOLY ALLIANCE.

We thank Edward Snowden for a view into the collaboration of the unholy club, the alliance of five eyes. The five Anglo Saxon nations, Great Britain, USA, Australia, New Zealand, and Canada have carried out, since the Second World War, a tight intelligence service collaboration, which is obviously carried out without check. It is one thing for the Americans and Britain how they deal with freedom and with the protection of their citizens from the grip of the state.

But they have no right, to make the citizens of another country the object of their checks. The brush-off explanation from Washington and London, the deeds of the services have put them in breach of the law, it is wrong. They are not our laws, we did not enact them. We cannot be made subject to them.

The totalitarianism of security thinking is defended with a sentence "If one has nothing to hide, one has nothing to fear. But that is in the firstly an insolent presumption-we have not asked NSA and GCHQ to protect us. And secondly, the sentence is stupidity: Because we all have something to hide- it matters not if it concerns our private lives or our business dealings.

NO SERVICE MAY COLLECT DATA IN SUCH QUANTITIES.

Also the data scandal disturbs not only or principle rights, but our security. We are lucky, that Edward Snowden, who disclosed this snooping to the world, is not a criminal, but an idealist. He wanted to warn the world, not blackmail it. But he could also have used his information for criminal purposes. Alone his case proves: No service in the world can guarantee the safety of the data which it has collected. Thus no service should collect data in such quantities.

That is a known paradox of totalitarian security politics: our security is endangered as much by the actions which are supposed to protect it.

ANNOUNCEMENT.

What should happen now? The European institutions should take over the data checking infrastructure and guarantee their safety. The freedom of data traffic counts as much among European freedoms as do those of wares, goods, service promotion, and money. But above all the practices of the Americans and English must cease. Immediately.

It is the mission of the Federal government to ensure that the programs of NSA and GCHQ work through no more data of German citizens and firms, without the possibility existing of redress in law. A Federal government that cannot guarantee this is failing in one of its basic duties: the protection of its citizens against foreign forces.

The Germans should also observe how Angela Merkel now behaves. And if SPD and Greens are looking for an election battle: here is one.

*Thanks for posting HJH; there's some very strange views nowadays!*

### **MI6 and MI5 'refuse to use Lenovo computers' over claims Chinese company makes them vulnerable to hacking**

Lenovo - the largest PC producer in the world - is indirectly backed by the Chinese state  
Cahal Milmo

Monday 29 July 2013

<http://www.independent.co.uk/news/uk/home-news/mi6-and-mi5-refuse-to-use-lenovo-computers-over-claims-chinese-company-makes-them-vulnerable-to-hacking-8737072.html>

Britain's intelligence agencies, including MI6 and MI5, have allegedly banned the use of computers manufactured by Chinese company Lenovo due to concerns that the machines come hardwired with a vulnerability to hacking.

Machines produced by the state-backed technology company, which is the largest PC producer in the world, are claimed to have been found in tests by MI5 and GCHQ to have modifications in their circuitry which could allow remote access to the devices without the owners' knowledge.

The discovery has led to a written banning order being issued among the "Five Eyes" alliance of British, American, Australian, Canadian and New Zealand eavesdropping agencies, including the US National Security Agency, according to the respected Australian Financial Review.

Lenovo, today voiced its "surprise" at the move and denied any fault in its machines. It is the latest company with links to the Chinese state to fall foul of concerns about its hardware following similar allegations against Huawei Technologies, the telecommunications producer earlier this year banned from competing for a £24 billion broadband contract in Australia.

GCHQ, the UK government's vast listening station, and other UK intelligence agencies declined to comment on the reports concerning Lenovo, which it is claimed has been boycotted since the mid-2000s after laboratories in Britain and elsewhere revealed vulnerabilities in hardware and "firmware" - the link between a computer's hard drive and its software.

Scientists are claimed to have identified highly-classified "back doors" in chips used in Lenovo machines which are extremely difficult to identify and could be activated remotely to either stop targeted computers working or access their contents.

As a result the agencies, ranging from the CIA to MI5, have declined to use the firm's computers for secret and top secret networks, although Lenovo machines continue to be used by public bodies for non-sensitive work. The State Department announced in 2006 that it was not going to use a consignment of 16,000 Lenovo computers due to security concerns.

The alleged ban will re-open the debate about whether suspicions against Chinese technology companies, whose products are often cheaper than those of rivals, are justified or jingoistic. Huawei, which was earlier this month accused by a former head of the CIA of passing details of foreign telecommunications systems to the Chinese government, has repeatedly insisted its products are safe and challenged its detractors to provide proof for their claims.

A committee of MPs last month concluded urgent measures were necessary to ensure that equipment provided by Huawei to British companies such as BT could not be used as a conduit for a cyber attack.

Lenovo, which is based in Beijing, is indirectly backed by the Chinese state. The Chinese Academy of Sciences, a public body, owns more than a third of Legend Holdings, which in turn owns 34 per cent of the computer company and is its biggest shareholder.

Following the acquisition of IBM's PC division in 2005, it has rapidly become a global player in the technology business with revenues last year of \$29 billion (£19 billion) and a market share of nearly 17 per cent.

In a statement, Lenovo said: "Our products have been found time and time again to be reliable and secure by our enterprise and public sector customers... We have not received word of any sort of a restriction of sales so we are not in a position to respond to this question. We are looking into this situation closely.

"Lenovo has no additional comment on recent reports in the Australia Financial Review. We would like to point out the public statement by the Australia Department of Defence available on their web site that says "This reporting is factually incorrect. There is no Department of Defence ban on the Lenovo Company or their products; either for classified or unclassified systems."

The Home Office declined to comment on whether Lenovo machines were accredited on secret government networks. In a statement, GCHQ said: "As a matter of policy we don't routinely discuss the names or nature of suppliers to GCHQ on any aspect of our business."

<http://www.independent.co.uk/news/uk/home-news/mi6-and-mi5-refuse-to-use-lenovo-computers-over-claims-chinese-company-makes-them-vulnerable-to-hacking-8737072.html>

Thanks 'E'

#### **Concerning the story of KGB's Romeo Spy .. ex-DetSgt John Symonds: Is Leo ready to become a real Romeo?**

<http://www.dailymail.co.uk/tvshowbiz/article-2380203/MOS-Diary-Kate-Moss-helps-Naomi-Campbell-split-Russian-billionaire.html>

Artist Alex de Cadenet hopes to persuade Leonardo DiCaprio to play Romeo – but this time there won't be a Juliet.

Alex, 39, has bought film rights to Romeo Spy, the true story of dashing British Army officer John Symonds. He was hired by the KGB in the 1970s as a honey trap, but was so successful that when he fell in love, his handlers faked his girlfriend's death to keep him.

'Leo knows my sister Amanda and I gather he's interested in the role,' says Alex. DiCaprio, above, has previously played Shakespeare's Romeo, and Alex adds: 'This would be a perfect role for him.'

Alex is known primarily for a series known as the Skull Portraits, based on X-rays of famous people's heads, including former MI5 boss Stella Rimington. His next model could be highly contentious.

'I'm keeping it a secret for now, but let's just say I have shot one of the most controversial people of our time,' he adds.

<http://www.dailymail.co.uk/tvshowbiz/article-2380203/MOS-Diary-Kate-Moss-helps-Naomi-Campbell-split-Russian-billionaire.html>

Those that have read this might be interested to read that John Symonds received his instruction via DLB or a meeting designated by certain music played on Radio Moscow..

If you want to read John Symonds' book then you can download it here:

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

Not a bad read and it's for buncie.

There's a whole host of other interesting stuff there too and there's persons mentioned that apart from JS himself, I knew.

*And this one for David Cameron who it appears was extracted from the US arse of International dabbling by general public opinion and Ed Miliband's apparently clever politicking*

### **Dulce et decorum est**

Bent double, like old beggars under sacks,  
Knock-kneed, coughing like hags, we cursed through sludge,  
Till on the haunting flares we turned our backs  
And towards our distant rest began to trudge.  
Men marched asleep. Many had lost their boots  
But limped on, blood-shod. All went lame; all blind;  
Drunk with fatigue; deaf even to the hoots  
Of disappointed shells that dropped behind.

GAS! Gas! Quick, boys! — An ecstasy of fumbling,  
Fitting the clumsy helmets just in time;  
But someone still was yelling out and stumbling  
And floundering like a man in fire or lime...  
Dim, through the misty panes and thick green light  
As under a green sea, I saw him drowning.  
In all my dreams, before my helpless sight,  
He plunges at me, guttering, choking, drowning.

If in some smothering dreams you too could  
pace  
Behind the wagon that we flung him in,  
And watch the white eyes writhing in his face,  
His hanging face, like a devil's sick of sin;  
If you could hear, at every jolt, the blood  
Come gargling from the froth-corrupted lungs,  
Obscene as cancer, bitter as the cud  
Of vile, incurable sores on innocent tongues, —  
My friend, you would not tell with such high zest  
To children ardent for some desperate glory,  
The old Lie: Dulce et decorum est  
Pro patria mori.

Dulce et decorum est pro patria mori: 'it is sweet and fitting to die for one's country'

Wilfred Owen MC (18 March 1893 – 4 November 1918) Note the date of his demise.

# Chart Section Index

1. □ Logging Abbreviations Explained

2. □ European Number Systems

3. □ Prediction Chart

4. □ M01, M01b and M45 Schedules

5. □ M12

6. □ Family III

7. □ G06

8. □ Cuban Schedule

9. □ HM01 Cuban Mixed Mode



### Logging Abbreviations explained.

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

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

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

Freq: kHz [As above 10436kHz]

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

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

Msg detail: Varies with station

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

Msg count 1

Dk [decode key]: 563

Gc [group count]: 102

First group of msg: 92632

Text between grps: ...

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

Ending: 0 0 0 0 0 0

Time msg ends: 1753z

Received signal strength assessment: Fair

Noise QRM2

Fading to signal QSB2

Monitor: PLdn

Day heard: SUN

Unknown: unk

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

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

### Received signal strength assessment.

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

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

Guidance for this can be sought from the Q code:

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

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

1) scarcely perceptible.

2) weak.

3) fairly good.

4) good.

5) very good.

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

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

### Noise, Static and Fading.

Again guidance from the Q code:

**Noise:**

**QRM** Are you being interfered with?

I am being interfered with

1) nil

2) slightly

3) moderately

4) severely

5) extremely.

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

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

**QRN** Are you troubled by static?

I am troubled by static

- 1) nil
- 2) slightly
- 3) moderately
- 4) severely
- 5) extremely.

**Fading** [Propagational disturbance]

**QSB** Are my signals fading?

Your signals are fading

- 1) nil
- 2) slightly
- 3) moderately
- 4) severely
- 5) extremely.

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

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

#### **Day Abbreviation**

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

#### **Mode used in transmission**

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

#### **Languages used**

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

#### **Non voice stations**

M [Morse and TTY] 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	nouă
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	chètiri	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'

<sup>^</sup> 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*]

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

<b>English</b>	zero	one	two	three	four	five	six	seven	eight	nine
	0	1	2	3	4	5	6	7	8	9
<b>Arabic</b>	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	Sep kHz, ID, ...	Oct kHz, ID, ...
x							0450		E11	03	6304 416/00	6304 416/00
			x	x			0500/0600		E06	01A	12210/14830 354	
x							0530/0550/0610		M12	01B	5792/ 6992 796, search	4617/ 5317 638, search
		x		x			0545		E11	03	15915 348/00	15915 348/00
	x						0600/0610		S06S	01A	14080/12355 438	14080/12355 438
				x			0600/0610		S06S	01A	8546/10935 934	8546/10935 934
				x			0600/0610		S06S	01A	7795/ 8695 196	
		x			x		0600/0620/0640		XPA	01B	10359/11559/13559	10868/12168/13368
			x	x			0600/0700		E06	01B		16320/18210 186
			x				0630/0650/0710		M12	01B	6784/7684/8184 761	6784/7684/8184 761
	x		x				0645		E11	03	10800 517/00	10800 517/00
						x	0700		M01	01B	6508 463	6508 463
	x						0700/0800	2	M14	01B	8120/ 7395 362	8120/ 7395 362
				x			0700/0710		S06S	01B		7795/ 8695 196
	x						0700/0710 (15)		S06S	01B	5760/ 6930 374	5760/ 6930 374
	x			x			0700/0720/0740		XPA2	01B	search	search
	x			x			0710		E11	03	10221 633/00	10221 633/00
		x					0730/0740		S06S	01A	7335/11830 745	7335/11830 745
		x					0730/0740		S06S	01A	7120/ 6415 481	7120/ 6415 481
	x		x				0745		E11	03	14575 335/00	14575 335/00
			x				0800/0810		E17Z	01A	14260/12930 674	14260/12930 674
x							0800		G06	01A	6774 215	6774 215
	x				x		0800/0900		M14	01A		
	x						0800/0810		S06S	01A	11635/10420 352	11635/10420 352
				x			0800/0810		S06S	01A	/ 5810 278, search	/ 5810 278, search

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Sep kHz, ID, ...	Oct kHz, ID, ...
					x		0800/0820/0840		E07A	01B	11153/12153/13453 114	11484/12184/ 413, search
x			x				0820		E11	03	6814 438/00	6814 438/00
		x					0820/0830		S06S	01A	7605/ 9255 471	7605/ 9255 471
x				x			0830		E11	03	10690 649/00	10690 649/00
x							0830/0840		S06S	01A	9220/ 8270 371	9220/ 8270 371
		x					0840/0850		S06S	01A	8712/ 9824 328	8712/ 9824 328
x		x					0900		E11	03	9399 534/00	9399 534/00
			x		x		0900		E11	03	4909 248/00	4909 248/00
x							0900/0910		S06S	01A	14580/13165 872	14580/13165 872
			x				0900/0910		S06S	01A	12952/13565 167	12952/13565 167
	x			x			0915		S11A	03	7317 484/00	7317 484/00
			x				0930/0940		S06S	01A	8650/ 7385 314	8650/ 7385 314
				x			0930/0940		S06S	01A	12140/13515 516, search	12140/13515 516, search
	x						1000/1010		S06S	01A	6410/ 7340 893	6410/ 7340 893
		x					1000/1010		S06S	01A	13365/14505 729	13365/14505 729
x			x				1015		S11A	03	16112 475/00	16112 475/00
	x			x			1020		S11A	03	9960 426/00	9960 426/00
		x			x		1020		S11A	03	5815 221/00	5815 221/00
	x						1045		E11	03	13873 576/00	13873 576/00
	x	x					1045		E11	03	7449 469/00	7449 469/00
x				x			1110		E11A	03	13375 95#/##	13375 95#/##
	x	x	x				1115		M03	03	9150 272/00 (Tue) & 650/00 (Wed/Thu)	9150 272/00 (Tue) & 650/00 (Wed/Thu)
						x	1120/1220	2	E06	01A	7564/ 6853 218	7564/ 6853 218

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Sep kHz, ID, ...	Oct kHz, ID, ...
		x	x			x	1155		E11	03	15915 718/00	15915 718/00
			x				1200	?	G06	01A	4526 215	4526 215
x							1200/1210		S06S	01A	9145/11460 831	9145/11460 831
			x				1200/1210		S06S	01A	12415/14212 425	12415/14212 425
					x		1200/1210	1	S06S	01A	10350/ 8520 254	10350/ 8520 254
		x					1230/1240		S06S	01A	7620/ 8105 967	7620/ 8105 967
			x				1300	?	G06	01A	4526 215	4526 215
x	?						1300/1320/1340		M12	01B	14372/13472/11472 344	10804/ 9327/ 7964 839
			x		x		1310/1330/1350		M12	01B	13873/13373/11473 834	12214/10814/ 282, search
			x			x	1320		M03	03	9150 437/00	9150 437/00
				x	x		1325		G11	03	5815 299/00	5815 299/00
	x				x		1400		E11A	03	13375 98#/#	13375 98#/#
		x			x		1445		E11	03	4909 287/00	4909 287/00
					x		1500		M01	14	6261 463	6261 463
		x					1500/1520/1540		M12	01B	13524/11524/10334 344	9223/ 8193/ 7463 839
	x						1500/1510		S06S	01A	6464/ 7245 537	6464/ 7245 537
				x			1515		M01B	14	5810 158	5810 158
			x				1505		M01B	14	5938 159	5938 159
	x				x		1535		M03	03	6977 798/00	6977 798/00
x						x	1540		E11	03	15915 228/00	15915 228/00
					x		1600 (1605)		S06	01A	8173/ 7472 764	8173/ 7472 764
		x					1600/1620/1640		M12	01B	11435/10598/ 9327 938	11435/10598/ 9327 938
x							1700	1/2	G06	01A	4569 564	4569 564
x			x				1700/1720/1740		M12	01B	9176/ 7931/ 6904 257	9176/ 7931/ 6904 257

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Sep kHz, ID, ...	Oct kHz, ID, ...
		x					1700/1720/1740		M12	01B	8047/ 6802/ 5788 463	8047/ 6802/ 5788 463
		x				x	1700/1720/1740		E07	01B	x12223/11062/ 10116 201, search	x11454/ 9423/ 8123 441, search
			x				1700/1720/1740		M12	01B	10343/ 9264/ 8116 124	10343/ 9264/ 8116 124
x				x			1710		E11A	03	5194 95#/##	5194 95#/##
			x				1730		E11	03	9371 416/00	9371 416/00
	x					x	1755		G11	03	5815 270/00	5815 270/00
x							1800	1/2	G06	01A	5424 564	5424 564
	x		x				1800		M01	14	5474 463	5474 463
	x						1800		S06	01A		5890 286
x							1800/1820/1840		M12	01B	9176/ 7931/ 6904 257	9176/ 7931/ 6904 257
			x				1800/1820/1840		M12	01B	10343/ 9264/ 8116 124	10343/ 9264/ 8116 124
	x		x				1802		M45	14	4555, 4955 555	4555, 4955 555
	x				x		1810		E11A	03	13455 98#/##	13455 98#/##
x							1810		M01B	14	3535, 4590 420	3535, 4590 420
x							1815/1915	2/4	S06	01A	13475/11060 036	11125/ 9245 451
	x						1820		M14	01A	5945 346	5945 346
			x				1830	2/4	G06	01A	5935 579	5935 579
	x						1830/1850/1910		M12	01B	10343/ 9264/ 8116 124	10343/ 9264/ 8116 124
		x					1830/1850/1910		M12	01B	11435/10598/ 9327 938	11435/10598/ 9327 938
			x				1832		M01B	14	3510, 4605 201	3510, 4605 201
	x		x				1842		S21	14	4454, 4854 454	4454, 4854 454
				x	x		1900	1/3	G06	01A	239, search	239, search
x			x				1900 (1905)		S06	01A	5784 (5127) 349	5784 (5127) 349
x		x					1900/1920/1940		E07	01B	12108/10708/ 9208 172	10243/ 9243/ 7943 229



Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Sep kHz, ID, ...	Oct kHz, ID, ...
x			x				1900/1920/1940		M12	01B	9176/ 7931/ 6904 257	9176/ 7931/ 6904 257
	x		x				1900/1920/1940		XPA	01B	11576/10476/ 9276	9362/ 8062/ 7462
					x		1900/2000	1/3	S06	01A	4967/ 4019 319	
					x		1900/2000	1/3	S06	01A	6885/ 5912 857	
				x			1902		M01B	14	3625, 4440 153	3625, 4440 153
x							1915		M01B	14	3644, 4454 771	3644, 4454 771
		x					1920/2020	2	E06	01A	4588/ 4060 218	4588/ 4060 218
		x					1920	2/4	M14	01A	5464 537	5464 537
				x			1930	2/4	G06	01A	5442 218	5442 218
					x		1930 (1935)		S06	01A	5823/ 4772 426	5823/ 4772 426
				x			2000		E11	03	5371 576/00	5371 576/00
				x	x		2000	1/3	G06	01A	7377 239	7377 239
				x		x	2000		G11	03	6433 262/00	6433 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
<b>ID</b>	<b>158</b>	<b>158</b>	<b>158</b>	<b>158</b>	<b>158</b>	<b>158</b>	<b>158</b>	<b>158</b>	<b>158</b>	<b>158</b>	<b>158</b>	<b>158</b>
<b>1515</b>	xxxx	xxxx	xxxx	5810	5810	5810	5810	5810	5810	5810	xxxx	xxxx
<b>1615</b>	5810	5810	5810								5810	5810
<b>ID</b>										<b>365</b>	<b>444</b>	
<b>1708</b>										6365		
<b>1808</b>											6444	
<b>ID</b>				<b>153</b>	<b>336</b>	<b>336</b>	<b>336</b>	<b>815</b>	<b>153</b>	<b>153</b>		
<b>1902</b>				3625	5075	5075	5075	5075	3625	3625		
<b>//</b>				4440	5465	5465	5465	5465	4440	4440		
<b>ID</b>	<b>866</b>	<b>866</b>	<b>153</b>								<b>866</b>	<b>866</b>
<b>2002</b>	2653	2653	3625								2653	2653
<b>//</b>	3197	3197	4440								3197	3197
<b>ID</b>				<b>582</b>	<b>467</b>	<b>467</b>	<b>467</b>	<b>467</b>	<b>582</b>	<b>582</b>		
<b>2010</b>				3520	4895	4895	4895	4895	3520	3520		
<b>//</b>				4585	5340	5340	5340	5340	4585	4585		
<b>ID</b>				<b>271</b>	<b>871</b>	<b>871</b>	<b>871</b>	<b>871</b>	<b>271</b>	<b>271</b>		
<b>2102</b>				4766	5329	5329	5329	5329	4766	4766		
<b>//</b>				5443	5752	5752	5752	5752	5443	5433		
<b>ID</b>	<b>610</b>	<b>610</b>	<b>582</b>								<b>610</b>	<b>610</b>
<b>2110</b>	2405	2405	3520								2405	2405
<b>//</b>	3180	3180	4585								3180	3180
<b>ID</b>	<b>419</b>	<b>419</b>	<b>271</b>								<b>419</b>	<b>419</b>
<b>2202</b>	4508	4508	4766								4508	4508
<b>//</b>	4706	4706	5443								4706	4706

### M01 Saturday

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

### M45 Tuesday/Thursday

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

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

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

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Mon 1	0430	6857	0450	7557	0510	---	850	0 0 0	
	1300	13972	1320	13472	1340	11472	944	1779	165
	1600	11435	1620	10598	1640	9327	938	429	44
	1700	9176^	1720	7931	1740	6904	257	2321	79
	1800	9176	1820	7931	1840	6904	257	8172	65
	1900	9176	1920	7931	1940	6904	257	7252	87
Tue 2	1830	10343	1850	9264	1910	8116	124	6370	69
Wed 3	1500	14492	1520	13392	1540	11092	944	1779	165
	1700	8047^	1720	6802^	1740	5788^	463	1859	92
	1830	11435	1850	10598	1910	9327	938	3827	55
	2100	9379	2120	7979	2140	---	398	0 0 0	
	2110	14869	2130	13569	2150	12179	851	3521	139
Thu 4	0630	7984	0650	9184	0710	---	911	0 0 0	
	1310	13926^	1330	12126	1350	---	919	0 0 0	
	1700	9176	1720	7931	1740	6904	257	6381	100
	1700	10343	1720	9264	1740	8116	124	6648	78
	1800	10343	1820	9264	1840	8116	124	4733	92
	1900	9176	1920	7931	1940	6904	257	5265	68
Fri 5	None	Found							
Sat 6	1310	13926^	1330	12126	1350	---	919	0 0 0	
	2110	14869^	2130	13569^	2150	12179	851	3521	139
Sun 7	None	Found							

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Mon 8	0430	6857	0450	7557	0510	---	850	0 0 0	
	1300	13972	1320	13472	1340	11472	944	7385	137
	1600	11435	1620	10598	1640	9327	938	8498	118
	1700	9176^	1720	7931	1740	6904	257	6151	74
	1800	9176	1820	7931	1840	6904	257	2567	62
	1900	9176	1920	7931	1940	6904	257	1951	86
Tue 9	1830	10343	1850	9264	1910	8116	124	1655	55
Wed 10	1500	14492	1520	13392	1540	11092	944	7385	137
	1700	8047^	1720	6802^	1740	5788	463	8745	94
	1830	11435	1850	10598	1910	9327	938	7110	51
	2100	9379	2120	7979	2140	6879	398	2328	73
	2110	14869^	2130	13569^	2150	12179^	851	568 ?	44?
Thu 11	0630	7984^	0650	9184	0710	---	911	0 0 0	
	1700	9176	1720	7931	1740	6904	257	3526	99
	1700	10343^	1720	9264^	1740	8116^	124	21 6?	90?
	1800	10343^	1820	9264	1840	8116	124	5776	88
	1900	9176	1920	7931	1940	6904	257	4778	68
Fri 12	None	Found							
Sat 13	1310	13926	1330	12126	1350	---	919	0 0 0	
	2110	14869	2130	13569	2150	12179	851	568	63
Sun 14	None	Found							

Highlighted cell indicates new or changed loggings  
- - - Indicates no 3<sup>rd</sup> transmission sent as message 0 0 0

^ Weak reception      NH Not Heard      NF Not Found

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Mon 15	0430	6857	0450	7557	0510	---	850	0 0 0	
	1300	13972	1320	13472	1340	11472	944	4867	159
	1600	11435	1620	10598	1640	9327	938	6701	106
	1700	9176^	1720	7931	1740	6904	257	1389	77
	1800	9176	1820	7931	1840	6904	257	9036	58
	1900	9176	1920	7931	1940	6904	257	7937	88
Tue 16	1830	10343	1850	9264	1910	8116	124	1107	69
Wed 17	1700	8047	1720	6802	1740	5788	463	8907	79
	1830	11435	1850	10598	1910	9327	938	9418	67
	2100	9379	2120	7979	2140	---	398	0 0 0	
	2110	14869	2130	13569	2150	12179	851	9581	89
Thu 18	0630	7984	0650	9184	0710	---	911	0 0 0	
	1310	13926	1330	12126	1350	10926	919	5086	147
	1700	9176^	1720	7931	1740	6904	257	5622	50
	1700	10343	1720	9264^	1740	8116	124	9473	72
	1800	10343	1820	9264	1840	8116	124	7258	111
	1900	9176	1920	7931	1940	6904	257	6507	42
Fri 19	None	Found							
Sat 20	1310	13926	1330	12126	1350	10926	919	5086	147
	2110	14869	2130	13569	2150	12179	851	9581	89
Sun 21	None	Found							

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Mon 22	0430	6857	0450	7557	0510	---	850	0 0 0	
	1300	13972	1320	13472	1340	---	944	0 0 0	
	1600	11435	1620	10598	1640	9327	938	4591	118
	1700	9176^	1720	7931^	1740	6904^	257	???	??
	1800	9176^	1820	7931	1840	6904	257	6029	65
	1900	9176	1920	7931	1940	6904	257	1419	118
Tue 23	1830	10343	1850	9264	1910	8116	124	2918	66
Wed 24	1500	14492	1520	13392	1540	---	944	0 0 0	
	1700	8047^	1720	6802^	1740	5788	463	8885	95
	1830	11435	1850	10598	1910	9327	938	4562	64
	2100	9379	2120	7979	2140	---	398	0 0 0	
	2110	14869	2130	13569	2150	12179	851	3291	121
Thu 25	0630	7984	0650	9184	0710	---	911	0 0 0	
	1310	13926	1330	12126	1350	---	919	0 0 0	
	1700	9176	1720	7931	1740	6904	257	3602	91
	1700	10343	1720	9264	1740	8116	124	1239	77
	1800	10343	1820	9264	1840	8116	124	7616	114
	1900	9176	1920	7931	1940	6904	257	6639	70
Fri 26	None	Found							
Sat 27	1310	13926	1330	12126	1350	---	919	0 0 0	
	2110	14869	2130	13569	2150	12179	851	3291	121
Sun 28	None	Found							

Highlighted cell indicates new or changed loggings  
- - - Indicates no 3<sup>rd</sup> transmission sent as message 0 0 0

^ Weak reception                      NH    Not Heard                      NF    Not Found

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Thu 1	0630	7484	0650	8184	0710	---	402	0 0 0	
	1310	14468^	1330	13568^	1350	---	451	0 0 0	
	1800	10343	1820	9264	1840	8116	124	6624	119
	1900	9176	1920	7931	1940	6904	257	6792	66
Fri 2	None	Found							
Sat 3	1310	14468^	1330	13568^	1350	---	451	0 0 0	
	2110	13369	2130	12179	2150	10469	314	1604	117
Sun 4	Not	Moni	-tored						
Mon 5	0430	5792	0450	6992	0510	---	796	0 0 0	
	1300	14964	1320	13972	1340	12164	991	2917	219
	1600	11435	1620	10598	1640	9327	938	5807	116
	1700	9176	1720	7931	1740	6904	257	7243	75
	1800	9176	1820	7931	1840	6904	257	3723	63
	1900	9176	1920	7931	1940	6904	257	4171	115
Tue 6	1830	10343	1850	9264	1910	8116	124	2425	62
Wed 7	1500	13918	1520	12218	1540	10818	991	2917	219
	1700	8047	1720	6802	1740	5788	463	2335	100
	1830	11435	1850	10598	1910	9327	938	2355	63
	2100	8123	2120	6923	2140	---	198	0 0 0	
	2110	13369	2130	12179	2150	---	314	0 0 0	

Highlighted cell indicates new or changed loggings

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

^ Weak reception

NH Not Heard

NF Not Found

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Thu 8	0630	7484	0650	8184	0710	---	402	0 0 0	
	1310	14468	1330	13568	1350	---	451	0 0 0	
	1600	13386	1620	12189	1640	11491	725	6241	117
	1700	9176	1720	7931	1740	6904	257	4579	98
	1700	10343	1720	9264	1740	8116	124	5203	79
	1800	10343	1820	9264	1840	8116	124	3613	114
	1900	9176	1920	7931	1940	6904	257	8870	65
Fri 9	None	Found							
Sat 10	1310	14468^	1330	13568^	1350	---	451	0 0 0	
	2110	13369	2130	12179	2150	10469	314	4517	77
Sun 11	None	Found							
Mon 12	0430	5792	0450	6992	0510	---	796	0 0 0	
	1300	14964	1320	13972	1340	12164	991	496	81
	1600	11435	1620	10598	1640	9327	938	1087	115
	1700	9176	1720	7931	1740	6904	257	1381	79
	1800	9176	1820	7931	1840	6904	257	5821	64
	1900	9176	1920	7931	1940	6904	257	8819	108
Tue 13	1830	10343	1850	9264	1910	8116	124	4787	66
Wed 14	1500	13918	1520	12218	1540	10818	991	496	81
	1700	8047	1720	6802	1740	5788	463	5554	100
	1830	11435	1850	10598	1910	9327	938	1996	65
	2100	8123	2120	6923	2140	---	198	0 0 0	
	2110	13369	2130	12179	2150	10469	314	4517	77

Thanks to Richard (RNGB) for finding the 725 sched 1600z Thu



Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Thu 15	0630	7484	0650	8184	0710	---	402	0 0 0	
	1310	14468	1330	13568	1350	---	451	0 0 0	
	1600	13386	1620	12189	1640	11491	725	6021	120
	1700	9176	1720	7931	1740	6904	257	6066	100
	1700	10343	1720	9264	1740	8116	124	7685	73
	1800	10343	1820	9264	1840	8116	124	4979	106
	1900	9176	1920	7931	1940	6904	257	1240	63
Fri 16	None	Found							
Sat 17	1310	14468	1330	13568	1350	---	451	0 0 0	
	2110	13369	2130	12179	2150	---	314	0 0 0	
Sun 18	Not	Moni	-tored						
Mon 19	0430	5792	0450	6992	0510	---	796	0 0 0	
	1300	14964	1320	13972	1340	12164	991	7021	177
	1600	11435	1620	10598	1640	9327	938	4233	113
	1700	9176	1720	7931	1740	6904	257	1567	72
	1800	9176	1820	7931	1840	6904	257	3845	64
	1900	9176	1920	7931	1940	6904	257	3373	113
Tue 20	1830	10343	1850	9264	1910	8116	124	8840	61
Wed 21	1500	13918	1520	12218	1540	10818	991	7021	177
	1700	8047*	1720	6802	1740	5788	463	1353	94
	1830	11435	1850	10598	1910	9327	938	8963	67

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Thu 22	0630	7484	0650	8184	0710	---	402	0 0 0	
	1310	14468	1330	13568	1350	12178	451	260	143
	1600	13386	1620	12189	1640	11491	725	6546	114
	1700	9176	1720	7931	1740	6904	257	6564	95
	1700	10343	1720	9264	1740	8116	124	8131	80
	1800	10343	1820	9264	1840	8116	124	3820	111
	1900	9176	1920	7931	1940	6904	257	3801	66
Fri 23	None	Found							
Sat 24	1310	14468^	1330	13568	1350	12178	451	260	143
	2110	13369	2130	12179	2150	---	314	0 0 0	
Sun 25	None	Found							
Mon 26	0430	5792	0450	6992	0510	---	796	0 0 0	
	1300	14964	1320	13972	1340	12164	991	7783	73
	1600	11435	1620	10598	1640	9327	938	3348	110
	1700	9176	1720	7931	1740	6904	257	1346	79
	1800	9176	1820	7931	1840	6904	257	7463	66
	1900	9176	1920	7931	1940	6904	257	3678	112
Tue 27	1830	10343	1850	9264	1910	8116	124	3416	69
Wed 28	1500	13918	1520	12218	1540	10818	991	7783	73
	1700	8047	1720	6802	1740	5788	463	5710	98
	1830	11435	1850	10598	1910	9327	938	3999	70
	2100	8123	2120	6923	2140	5823	198	2073	83
	2110	13369	2130	12179	2150	10469	314	3778	123

Highlighted cell indicates new or changed loggings

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

^ Weak reception

NH Not Heard

NF Not Found

\* Call-up problem - Ceased then restarted 1701 - 1703z

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Cont...									
Cont...									
Cont...									
Mon 29 July	0430	6857	0450	7557	0510	---	850	0 0 0	
	1300	13972^	1320	13472^	1340	11472^	944	5404	165
	1600	11435	1620	10598	1640	9327	938	8504	118
	1700	9176	1720	7931	1740	6904	257	7290	77
	1800	9176	1820	7931	1840	6904	257	7230	70
	1900	9176	1920	7931	1940	6904	257	6141	116
Tue 30 July	1830	10343	1850	9264	1910	8116	124	7883	63
Wed 31 July	1700	8047	1720	6802	1740	5788	463	1205	97
	1830	11435	1850	10598	1910	9327	938	8154	65
	2100	9379	2120	7979	2140	6879	398	3391	85
	2110	14869	2130	13569	2150	12179	851	1604	117

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Cont...									
Cont...									
Cont...									
Thu 29 Aug	0630	7484	0650	8184	0710	---	402	0 0 0	
	1310	14468	1330	13568	1350	---	451	0 0 0	
	1600	13386	1620	12189	1640	11491	725	3059	111
	1700	9176	1720	7931	1740	6904	257	2699	100
	1700	10343	1720	9264	1740	8116	124	1948	74
	1800	10343	1820	9264	1840	8116	124	1599	119
	1900	9176	1920	7931	1940	6904	257	8340	70
Fri 30	None	Found							
Sat 31	1310	14468^	1330	13568^	1350	---	451		
	2110	13369	2130	12179	2150	10469	314		

Highlighted cell indicates new or changed loggings

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

^ Weak reception      NH Not Heard      NF Not Found

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Jul kHz, ID, ...	Aug kHz, ID, ...	Sep kHz, ID, ...	Oct kHz, ID, ...	General Remarks
x							0450		E11	03	10800 416/00	10800 416/00	6304 416/00	6304 416/00	since 02/10, last log 05/13
		x	x				0545		E11	03	13424 348/00	13424 348/00	15915 348/00	15915 348/00	since 06/11, last log 08/13
	x		x				0645		E11	03	13424 517/00	13424 517/00	10800 517/00	10800 517/00	since 07/09, last log 08/13
	x			x			0710		E11	03	14753 633/00	14753 633/00	10221 633/00	10221 633/00	since 02/11, last log 08/13
	x		x				0745		E11	03	15632 335/00	15632 335/00	14575 335/00	14575 335/00	since 10/11, last log 08/13
x			x				0820		E11	03	6280 438/00	6280 438/00	6814 438/00	6814 438/00	since 10/09, last log 07/13
x				x			0830		E11	03	12924 649/00	12924 649/00	10690 649/00	10690 649/00	since 01/10, last log 08/13
x	x						0900		E11	03	13427 534/00	13427 534/00	9399 534/00	9399 534/00	since 10/09, last log 08/13
			x		x		0900		E11	03	4909 248/00	4909 248/00	4909 248/00	4909 248/00	since 02/10, last log 06/13
	x			x			0915		S11A	03	8530 484/00	8530 484/00	7317 484/00	7317 484/00	since 01/10, last log 08/13
x			x				1015		S11A	03	16530 475/00	16530 475/00	16112 475/00	16112 475/00	since 04/10, last log 08/13
	x			x			1020		S11A	03	11581 426/00	11581 426/00	9960 426/00	9960 426/00	since 02/10, last log 08/13
		x			x		1020		S11A	03	5815 221/00	5815 221/00	5815 221/00	5815 221/00	since 01/09, last log 06/13
	x						1045		E11	03	17441 576/00	17441 576/00	13873 576/00	13873 576/00	since 01/12, last log 07/13
	x	x					1045		E11	03	9610 469/00	9610 469/00	7449 469/00	7449 469/00	since 03/10, last log 08/13
x				x			1110		E11A	03	16388 95#/#	16388 95#/#	13375 95#/#	13375 95#/#	since 12/11, last log 08/13
	x	x	x				1115		M03	03	7837 272/00 (Tue) & 650/00 (Wed/Thu)	7837 272/00 (Tue) & 650/00 (Wed/Thu)	9150 272/00 (Tue) & 650/00 (Wed/Thu)	9150 272/00 (Tue) & 650/00 (Wed/Thu)	since 10/09, last log 08/13
		x	x			x	1155		E11	03	16335 718/00	16335 718/00	15915 718/00	15915 718/00	since 04/11, last log 08/13
			x			x	1320		M03	03	7837 437/00	7837 437/00	9150 437/00	9150 437/00	since 02/11, last log 08/13
				x	x		1325		G11	03	5815 299/00	5815 299/00	5815 299/00	5815 299/00	since 03/10, last log 08/13
	x				x		1400		E11A	03	13722 98#/#	13722 98#/#	13375 98#/#	13375 98#/#	since 10/11, last log 08/13
		x			x		1445		E11	03	4909 287/00	4909 287/00	4909 287/00	4909 287/00	since 11/10, last log 08/13
	x				x		1535		M03	03	6524 798/00	6524 798/00	6977 798/00	6977 798/00	since 11/10, last log 08/13
x						x	1540		E11	03	16335 228/00	16335 228/00	15915 228/00	15915 228/00	since 03/11, last log 08/13
x				x			1710		E11A	03	10487 95#/#	10487 95#/#	5194 95#/#	5194 95#/#	since 11/11, last log 08/13
			x				1730		E11	03	8088 416/00	8088 416/00	9371 416/00	9371 416/00	since 03/10, last log 08/13
	x				x		1755		G11	03	5815 270/00	5815 270/00	5815 270/00	5815 270/00	since 02/10, last log 08/13
	x				x		1810		E11A	03	14518 98#/#	14518 98#/#	13455 98#/#	13455 98#/#	since 08/12, last log 08/13
				x			2000		E11	03	9200 576/00	9200 576/00	5371 576/00	5371 576/00	since 03/12, last log 07/13
				x	x		2000		G11	03	3815 262/00	3815 262/00	6433 262/00	6433 262/00	since 01/11, last log 08/13

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Jul kHz, ID, ...	Aug kHz, ID, ...	Sep kHz, ID, ...	Oct kHz, ID, ...	General Remarks
x							0800		G06	01A	6948 215	6948 215	6774 215	6774 215	since 07/10, <b>last log 08/13</b>
			x				1200	?	G06	01A	search 215	search 215	4526 215	4526 215	since 09/11, last log 03/13
			x				1300	?	G06	01A	search 215	search 215	4526 215	4526 215	since 09/11, last log 04/13
x							1700	1/2	G06	01A	5476 564	5476 564	4569 564	4569 564	since 04/10, <b>last log 08/13</b> yearly changing frequencies + id
x							1800	1/2	G06	01A	5783 564	5783 564	5424 564	5424 564	since 05/09, <b>last log 08/13</b> yearly changing frequencies + id
			x				1830	2/4	G06	01A	6887 842	6887 842	5935 579	5935 579	since 05/01, <b>last log 08/13</b>
				x	x		1900	1/3	G06	01A	11424 239	11424 239	239, search	239, search	since 05/13, <b>last log 08/13</b>
				x			1930	2/4	G06	01A	5943 218	5943 218	5442 218	5442 218	since 04/01, <b>last log 08/13</b> repeat of Thu 1930Z
				x	x		2000	1/3	G06	01A	9268 239	9268 239	7377 239	7377 239	since 04/13, <b>last log 07/13</b> repeat of 1900Z

**Current Cuban Skeds V02/M08/SK01**  
**July-August 2013**

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

**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 previous 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

## 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
9330	0700	0700		0700		0700	
13435			0700		0700		0700
9065	0800	0800		0800		0800	
11635			0800		0800		0800
9240	0900	0900		0900		0900	
12120			0900		0900		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
					27/06/2013		

## SPECIAL MATTERS:

### **Operation Jallaa:**

0



## MESSAGES:

**'E'** Your stuff also kept on record. Many thanks for input, excellent indeed.

## 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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