ENIGMA 2000 NEWSLETTER

http://www.enigma2000.org.uk

Canberra Bomber used during Cold War for photographic reconnaissance.

Others, painted black and with no decals, were used to provoke USSR radar sites to light up with the telemetry and other signals saved for analysis by onboard recorders.
The resultant ground communications in fast Cyrillic Morse was intercepted by certain Signals Units on
the ground.

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We sadly commence with this short Obituary of another valued member's passing:

Fritz Nusser

As members may already be aware, our friend & fellow monitor Fritz Nusser passed away on 22 July 2014.

As is often the way with such things in this hobby of ours, although I had numerous email exchanges with Fritz over the years, I never had the pleasure of meeting him personally or of holding a conversation with him, yet I regarded him as a friend and was greatly saddened by his passing.

Fritz was very highly regarded within ENIGMA 2000, as he was amongst the wider shortwave listening community & nowhere was that more evident than in the tributes & comments posted on the group following Ary's post informing us of his passing.

A member of E2k & E2k.de since 2005, Fritz was a regular contributor providing not just logs but his help, experience & knowledge - both to the group & individual members. He had a keen interest in Radio Direction Finding (RDF) & had written an introduction to RDF. Members may recall his home-made design of a Shielded-Loop antenna used in combination with a Yupiteru handheld to track down noise sources.

In recent years Fritz supplied daily logs for M12, along with with some X06 & miscellaneous other Morse & speech logs. His logs stand as an example of neatness, conciseness & accuracy - qualities that were not only evident in his logs but in the content of his personal website 'Fascinating Shortwaves', regretably no longer available, where he featured detailed profiles of networks such as the French M51 & Israeli 4XZ as well as CIS utility & military networks, with his main interest being Morse.

Fritz Nusser was a good friend of ENIGMA 2000 & both his company & the contributions he made to the group will be greatly missed.

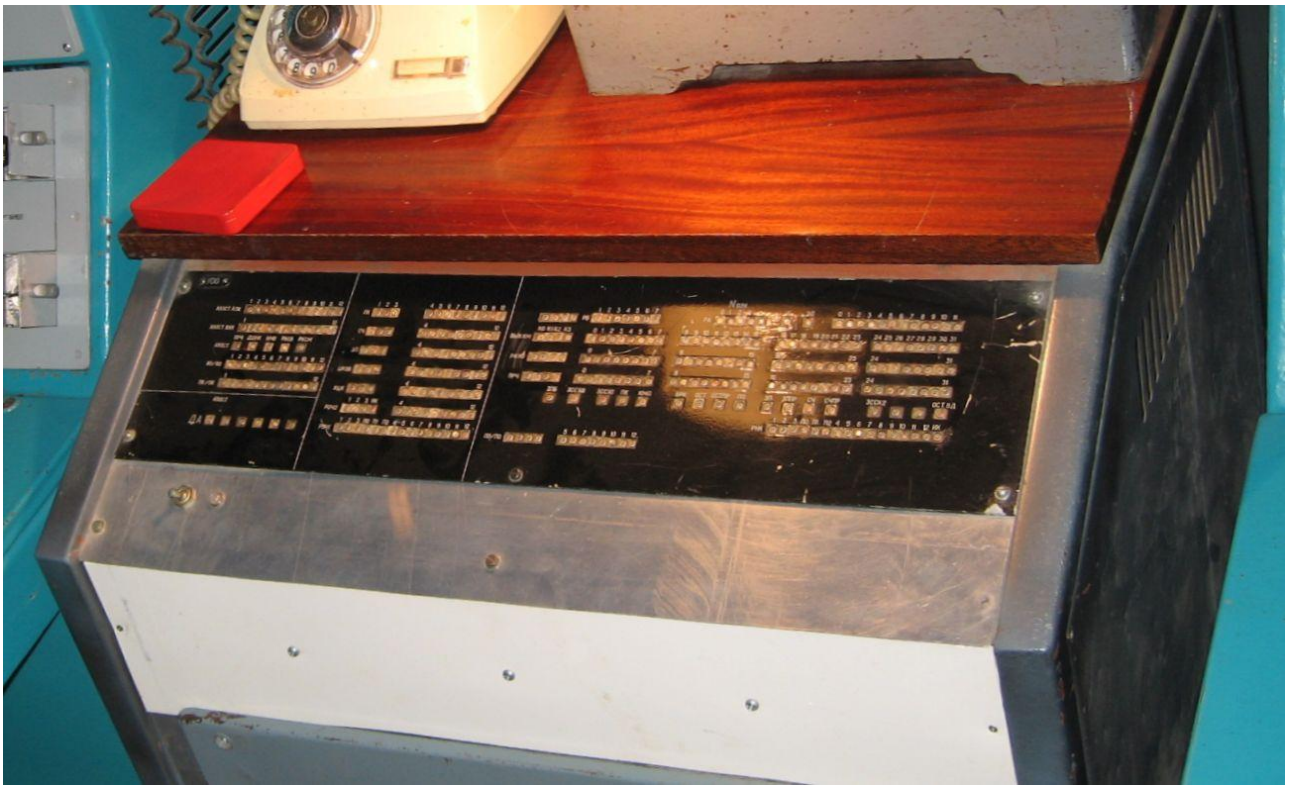
To a fellow Morse man, now Silent Key, we say TKS and GB DR OM, Best 73 SK . .
Brian - Morse Desk

The German Branch is sad about the news, that Fritz Nusser (Fritz/CH) passed away on July 22nd, aged67. Our deep condolence t o all his relatives. In the time, as Fritz was no E2K member in 2005, he asked me for membership in the German Branch, and from 2005-08 he was our member (FritzE2Kch). After his comeback on the E2K board, I made Paul the suggestion for Fritz' membership in the former newsletter distribution network because of his good and regular contributions to our group. Till the end of this network he got the newsletter "gratis" like all the other distribution members. Also Fritz supported our X06 team with his regular logs. With the death of Fritz, a very good (numbers) Dxer went from us, who also understood to introduce young SWLs into our great hobby. "Fritz, Du wirst uns fehlen, wir vermissen Dich!" (Fritz, you'll miss us, we miss you!).

Behalf of the German Branch: Jochen, KopfE2Kde

The Centre Desk from our feature seen in NL83

A considerable amount of interest was generated by our traveling memebrs' visit to the splendid Moscow bunker and especially the central desk set between the two missile control points.



Like others I thought this was a display with glow lamps to show status and such like but that is far from the truth. The buttons are made of brass, or high brass content mix, and are pressed to allow communication with other points remote to the bunker.

Exactly how this works is unknown but be assured that our man on the plot has taken up the challenge.

Missing Short Wave Number Stations.

Apart from just singling out E10 as an inactive station one has to ask about some of the other prolific stations heard. Who can forget E03 or E03a; the plummy tones announcing a strict number of groups preceded by a known folk song? E05 with its strong American flavour; a definite American accent counting numerals and then its specific 3+2 delivery is another, along with E10 and its letter groups. All representing well funded and correctly set up Intelligence agencies of whose activities and techniques the outsider can only wonder as they read the hyped reports in the media.

That certain number stations have disappeared from the radio dial is hardly surprising; a communications technique that has stood the test of time and which has been well documented since the Bletchley story was made public in the late 70's. Whilst the British Agencies of MI6 and MI6 existed and were shrouded with a greater mystery than today, GCHQ remained a strict secret and barely known about by the public. That cloak was removed on 18th February 1977 when a then young investigative journalist, Duncan Campbell in concert with the now late Crispin Aubrey interviewed an ex-member of the Intelligence Corps Corporal John Berry in his Muswell Hill apartment. Berry served with the 9th Signals Regiment on the mediterranian island of Cyprus; known to be bristling with British electronic ears - antenna farms, satellite dishes and nowadays, according to recent rumour and publication, fibre optic links to specific cables that seve, amongst other places, the Middle East.

All three participants were arrested and duly processed by Special Branch detectives; the reason was none other than National Security. Personally, one of the team, Detective Inspector Moffatt always reminded me of the celebrated actor TP McKenna in profile when I used to see him in the 'Tank' is New Scotland Yard.
A trial eventually took place and earned the name of the 'ABC Trial' after the selected initials of the accused. The story of the trial is complicated but there were anomalies with jury members - the papers reporting one as a serving member of the secretive SAS, apparently placed by the prosecution, as well as the presence of Colonel B.

Colonel B turned out to be Hugh Anthony Johnstone MBE, a top figure in British SIGINT whose appointment to the MOD had appeared in the Royal Signals Association journal, 'Wire' in December 1974. He was uneasy giving evidence about a subject with which he had been indoctrinated and with the discovery of whom he actually was and what his function was the 'National Secret' of GCHQ was blown wide open, if not off its hinges. The newspaper reading public quickly becoming aware of their national interception agency.

Short wave listeners and radio amateurs have either followed or cursed number stations. Attempts to discover their functions was met with risible government responses; fishing fleet communications being one sensible answer since trawlers used codings to indicate fish fields and catches but attempts to contact flying saucers was one of the pathetically stupid answers given by government officials who should have realised that even the most mundane amongst the public knows when they're being foisted off.

Of course, nowadays its well known what number stations are for - as if those reading this needed any clues. Arrested spies in Britain and the US plus memiors from Mossad operatives have informed those who have read the books and affidavits and now know the origins and operational purpose of these stations.

Amongst the SWL groups have formed who take a deep interest in these transmissions; compiling schedules for the different stations is a sometime difficult operation but rarely an operative who is arrested can be indentified as the recipient of transmissions. Erwin van Haarlem, Anna Chapman, Ana Belen Montes and Heidrun Anschlag being four who fit that as certain; then there's the possibles of which Estonian Hermann Simm is one whilst the spying Dutch diplomat Raymond Poeteray is another. After their arrests E06 schedules closed shortly after; hardly coincidence?

That number stations can be heard obviously signals that the agencies responsible are communicating directly with their agents and officers abroad; that we no longer hear certain stations does not necessarily suggest that the recipient has been apprehended but more that the methods of communication have changed.

In his book 'Fist of God' [Qubth-ut-Allah] Frederick Forsyth writes of the hero, Major Mike Martin SAS who is inserted deep into war torn Iraq to gather intelligence about a weapon with the code name that gives a very exciting book its title.

As with a fictional hero this one speaks the language of the area having been brought up there as a child but also He not only looks like a national but speaks Arabic too. But what is interesting is the description of the device used to communicate with his British handlers; "…. along with Martin's small but powerful transceiver with its fold-away satellite dish and cadmium-nickel spare batteries.'
What is described is very much like the UHF SATCOM system much seen in the Afghanistan theatre and well pirated by Brazilian radio enthusiasts who are audible in Britain at first light around 240 to 246MHz. Using a scanner tuning that range [I used a Yupiteru MVT7100] and a specially made X antenna correctly phased I intercepted many a Portuguese language communication via UHF SATCOM using a homebrewed X antenna, seen below. I made mine with minimal effort but saw fit to run a signal amp to ensure good, 'armchair' copy.

SATCOM above London. Excellent copy on 243.625

One recent arrest for spying was of an American, Alan Gross a USAID operative, in Cuba; well after E05 had closed down. There was no mention of a Short Wave receiver but initially there was mention of the BGAN: Broadband Global Area Network which was smartly removed from the storyline.
These units allow telephony via an internet network over satellite using portable terminals. These terminals were apparently disguised as surf boards. In later media releases the BGAN had become the 'Satellite Dish' or satellite phone.

An interesting account can be found in a short 'Cuba Democraciayvida.' It reads, 'The U.S. diplomatic mission in Havana has 23 computer stations that offer uncensored and free Internet access to Cuban visitors by appointment, and the Dutch embassy has another three.

But satellite phones allow users to surf the Web or make phone calls from their own homes. They connect users directly to satellites — bypassing Cuba's telephone system — and then to ground stations abroad that link to Internet or telephone networks.

The George W. Bush administration first approved sending satellite phones to Cuba around 2006, but kept the numbers to a handful because of Havana's likely protests, said two former administration officials. Cuba's Decree 269, issued in 2000, requires satellite transmitters and receivers be registered with the government.

Satellite phones sent in by Cuban exiles clearly far outstrip those paid for by the U.S. government, industry experts told El Nuevo Herald. They asked that they not be further identified because of the illegal nature of most of the Cuba connections.

The top-of-the-line phones are the BGANs, which costs $3,000 to buy. Voice chats cost 99 U.S. cents a minute and Web connections run $6-$7 for the equivalent of transferring two large photographs. The average BGAN bill runs $150-$200 a month.

BGANs are expensive compared to other systems but are easier to hide because they do not require large satellite antennas. The lid of the laptop-sized satellite phone works as its antenna. [*Inside the lid are two circular patch antennae, said to give some 14dB gain on receive*]

Cheaper but easier to detect and slower are the satellite Internet/phone systems sold by several companies around the world for use in remote locations, boats and other places without access to high-speed internet.' http://www.cubademocraciayvida.org/web/print.asp?artID=13408

This short piece says it all concerning 'clandestine'satellite communications and mentions disguising antennas as concrete blocks that fold over to provide an undetectable link.

Another arrest of Israeli spies this time also said a lot; 'The two men, Udi Hargov, 27, and Yigal Damary, 49, who claimed to be teachers, were held on suspicion of espionage after the Cypriots said they had been found with a complement of electronic equipment while recording police or military conversations off a sophisticated scanner.'

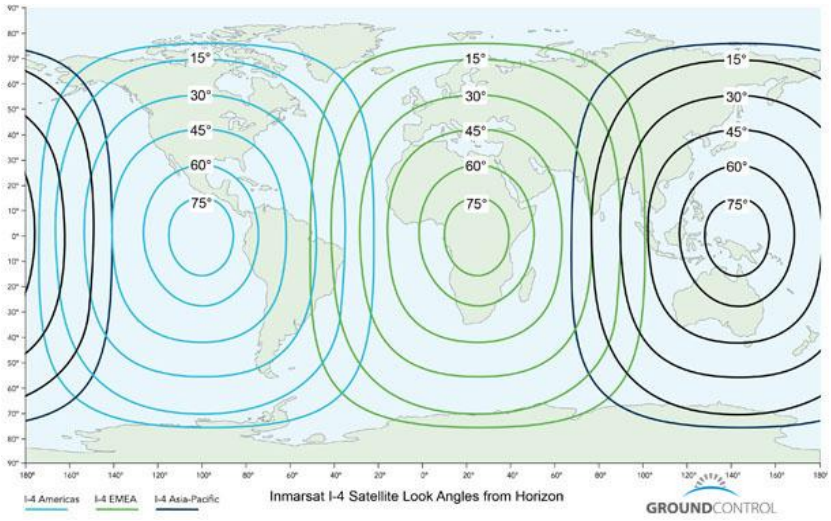
Further on we read, 'The Mossad has been known to use Cyprus for training missions, and Gad Shomron, a former Mossad agent, conjectured that the two Israelis, who had previously visited Cyprus, were on such a mission.
The previous visit had coincided with a Greek-Cypriot military exercise off the coast, the Cypriot authorities said. The Israelis' activities raised suspicions, and when they returned, Cypriot officials obtained a search warrant for their temporary apartment, and said they had found cameras, maps, two scanners and tapes of Greek conversations between police or military officials.....'

One of the items was a water cooler with electronics concealed in the lid. Those electronics were originally described as map making equipment but on a hingeable lid with a disc that looked mightily like a satellite antenna? Has to be a BGAN unit. Incidentally, a short wave receiver was also found but E10 was already known to be on the decline.

Whilst there is nothing about Britain's clandestine transmissions available the liklihood is that E03 and E03a have gone the same route as that seen with the US and Israel. Stella Rimington in one of her novels described a female agent setting up her communicator - a box shape with the LED or two occasionally flashing which automatically receives its message. BGAN? Who knows but what she writes is based on indepth knowledge, sadly passed through the censor, but no doubt with some accuracy. Today's BGANs are quite able to receive messages unattended.

The satellite phone is also a convenient device, text and internet easily available and like a standard cellphone easily reprogrammed to display a received encrypted message *en clair* with the input of a known key sequence.

Our friend Duncan Campbell previously mentioned and demonstrated intercepting satellite communications in Channel Four's Dispatches programme entitled 'The Hill' broadcast in 1993 [Available, in Britain at least, on: http://vimeo.com/45350449]. The entire programme is partcularly interesting but look around 20'00" to see Duncan Campbell intercepting satellite communications. I've no idea what frequency he is tuning on his Lowe HF225 but if the process involves tuning across a passband of the satellite signal then there's some clues.
Nowadays, satellite phones and BGAN transmissions will doubtless be encrypted and doubtless digital too; since Mr Campbell's interesting piece was made before the digital explosion in communications replicating his success with the simple equipment available to us now might well be impossible.



Just to be helpful http://www.groundcontrol.com/ even show a map to assist with locating the satellite in your area.

For those who wish to ildly know frequencies of operation or want a chance of intercepting comms via Satellite phones or the BGAN then the answer is easily had from http://www.groundcontrol.com/BGAN_Frequency.htm they state: 'All BGAN terminals use the L-Band frequency, which is the same frequency used by satellite phones. L-Band frequencies have a very long wavelength and as such are not affected by rain fade as much larger satellite dish systems that use the Ku and Ka frequency band.

BGAN Terminal Transmit and Receive Frequencies
L-Band 1.5 to 1.6 GHz
Transmit: 1626.5 MHz – 1660.5 MHz
Receive: 1525 MHz – 1559 MHz

The GPS Frequency used on BGAN terminals is 1575.42 MHz (receive only).

The site is a veritable manual on BGAN use so please visit http://www.groundcontrol.com/ for a decent appreciation of the device.

So if anyone manages to intercept anything on these frequencies I'd be very interested to know how you did it. I'm going to design a small antenna for 1527MHz and couple it, via a homebrewed MAR6+ amp [also available at Bowood Electronics http://bowood-electronics.co.uk/ see kit 0004], to my AoR8600MKII to see what I can hear.

As for what's up there, I'd be very much surprised if our modern day equivalents of the missing number stations aren't! Whether they can be heard of course it a totally different matter. The modulation used is CCQPSK

Where the BGAN is concerned for its usefulness one cannot forget a certain incident in Libya where SAS, a diplomat and an alleged agent were easily captured after being dropped at night by helicopter. The carried communications equipment with passwords carelessly written on pieces of paper hastily thrust into pockets that allowed their captors to get straight into Secret Service websites [of course it did]. The papers were full of the passwords used and all one can really say is 'Sunatra Deployed.'

Satellite Phone? Well one was used by Heidrun Anschlag who took instruction via the XPAb early morning schedules to make a return call, so why not both ways with suitable encryptions?

Paul Beaumont

Operational News:

UNID from PoSW:

One unidentified voice transmission to report, I don't know if this had any connection with the espionage trade, but included in case it means something to someone:-
17-July-14, Thursday:- 1506 UTC, 15,020 kHz, noted an extremely strong, S9+ carrier with audio tone, stopped a few seconds after being tuned in, deep male voice said, "This is Alpha Juliet 8" followed by the words, "Alpha Juliet Eight" repeated slowly several more times, then plain carrier which went off around 1508 UTC. Nothing further heard, 15,020 monitored on several following days but not heard again. I think this was a live voice rather than the sampled and stored method of the number stations, English language with an accent, difficult to place, maybe Eastern Europe or Middle East.

Squeaky Wheel – no longer a mystery!

During a discussion on RSGB Tech Forum the following reference to the Squeaky Wheel as made, the subject matter was 'Coast - Rugby Radio.'
I've deliberately removed the call sign details of Andy and Peter.
Thanks for posting to E2k MaleAnon.

Andy said:
> The LF links were originally narrow shift FSK, 25 or 50 baud,
> possibly 85Hz shift

Peter:
50 baud 85Hz shift. Incidently the transmitter centred on 81.01 kHz was 50 baud 85Hz shift until only a few years ago, and changed to 100 baud MSK which it still runs now.

Although we never realised it at the time, this transmitter (at Inskip) had a high-order harmonic emission (the 46th harmonic!) on 80m which was known to the members of the Home Brew net as "The Squeeky Wheel". It was only when I realised that the squeeky wheel had changed and the 81.01 kHz transmission had ALSO changed that I divided one frequency by the other, got exactly 46.000, reported it - and got it fixed.

Thanks again MaleAnon

X06 logs [Jochen]

This time we have some interesting logs from our good old "snail mail" friend PoSW. Many thanks for them, but also for all logs from the other contributors.

X06 Mazielka (1C) logs section

Date	Day	UTC	Freq	Scale	Monitor	Comments
20140701	Tue	1056-1103	16115	215346	PaulH/UK	G
20140704	Fri	0550-0553	13954	213546	EdwardSmith	Rarer scale, G
20140704	Fri	1302-1305	14501	361245	PoSW	Weak, M829
20140706	Sun	1115-1140	14501	361245	Danix/PL	R
20140708	Tue	0801-0802	11545	534216	PoSW	S7-8, M830
20140708	Tue	1047-1102	14675	612534	Danix,Peter	Alert 2.1 M831
20140708	Tue	1107-1109	12100	612534	Peter/UK	2.2 Very faint, M832
20140709	Wed	0907-0909	14650	215346	Peter	Alert 2.1 Very faint, M833
20140709	Wed	0915-0939	16115	215346	Danix, Edward	2.2 G

Date	Day	UTC	Freq	Scale	Monitor	Comments
20140709	Wed	1109-1112	14944	621543	Peter	M834
20140709	Wed	1459-1508	16115	215346	Peter, PoSW	Fair, G
20140709	Wed	1528-1534	17470	216354	Peter	Good, G
20140710	Thu	0751	13854	521634	Avare/RU	G
20140710	Thu	0804-0808	16153	153624	PoSW	S4-5, R
20140711	Fri	0637-0638	9288	356412	PoSW	M835
20140711	Fri	0959-1002	12213	615243	Peter	M836
20140712	Sat	1408-1417	14970	216354	Danix	G
20140714	Mon	0928	10127	421635	Peter	Not audible, but visible, M837
20140714	Mon	0939-0945	16117	463125	Peter	Alert 3.1 S9 in AM, M838
20140714	Mon	0947-0952	13517	463125	Peter	3.2 Much weaker, M839
20140714	Mon	0954	12224	463125	Peter	3.3 Even weaker, faded away, M840
20140714	Mon	1237-1238	14683	364152	Peter	M841
20140715	Tue	0753-0757	11462	165423	Peter	Fair, M842
20140715	Tue	0826-0827	14358	154263	Avare	G
20140715	Tue	0912-0918	18206	246531	Peter	Fair, M843
20140715	Tue	1123-1126	13961	216354	Peter	Fair, G
20140715	Tue	1131-1139	16115	215346	Peter	Good, G
20140716	Wed	0850-0854	14631	362154	Peter	Strong and clear, M844
20140717	Thu	0748-0803	14446	162543	Peter, PoSW	Alert 2.1 Fair, M845
20140717	Thu	0749-0803	10508	162543	Peter	2.2 Same time and strength, M846
20140718	Fri	0627-0631	16320	241563	Edward	I. p., M847
20140718	Fri	0822-0840	16219	324615	Edward	I. p., G
20140721	Mon	0655-0658	12122	165324	Danix	I. p., M848 (CROWD36 at 0700-0702)
20140721	Mon	1905-1915	11125	216354	tiNG	Fair, G
20140724	Thu	0746-0748	14419	521634	Peter	Alert 2.1 Strong, M849
20140724	Thu	0746	14871	521634	Peter	2.2 Weak, very short, faded away, G
20140725	Fri	0506-0509	13510	216453	Peter	Good and strong, M850
20140725	Fri	0627-0638	9288	356412	Peter	Good and strong, G (C36: 0649-0651)
20140725	Fri	1030-1034	17463	256134	Danix	M851
20140731	Fri	0730-0732	16115	215346	Danix	G
20140801	Fri	0542-0545	13954	213546	Peter	Alert 1.1 Good and clear, M852
20140801	Fri	0546-0549	13954	213546	Peter, Nicolas/FR	1.2 Much weaker than before, M853
20140801	Fri	0542-0545	13506	213546	Peter	Alert 1.1 Good (parallel TX), G
20140801	Fri	0546-0549	13506	213546	Peter	1.2 Weaker (again parallel TX), G
20140801	Fri	0641-0649	16320	241563	Peter	Alert 1.1 Good and clear, M854
20140801	Fri	0703-0710	16320	241563	Peter, Orinoko/AU	1.2 M855
20140801	Fri	0954-1001	12215	361245	Peter,Danix	M856
20140801	Fri	0842-0846	16219	324615	Peter	Good, M857
20140801	Fri	1012-1014	14824	625413	Peter	Weak, M858
20140804	Mon	0703-0943	16190	123456	Danix, Ary, Eddy	X06c with S9+40
20140804	Mon	1545-1554	11438	532614	Avare	M859
20140804	Mon	1620	14650	215346	Peter	M860
20140805	Tue	0914-0915	18206	246531	Peter	Poor, M861
20140808	Fri	0626-0630	9288	356412	Peter	M862
20140808	Fri	1001-1003	14863	615243	Peter	M863
20140811	Mon	1007-1008	12224	463125	Peter	S1, M864
20140812	Tue	1030-1032	14675	612534	Danix	M865
20140813	Wed	0845	12200	134265	Peter	S1 (only 1 round heard), G
20140813	Wed	1057-1058	14560	621543	Danix	M866
20140813	Wed	1543-1544	14970	216354	Peter	S1, G
20140815	Fri	0636-0637	14720	241563	Danix	G
20140815	Fri	0836-0844	16219	324615	Danix	M867
20140815	Fri	1000-1004	14552	361245	Ary/NL	New freq for this popular scale, G
20140818	Mon	0657-0658	12142	261453	Danix	New freq, R
20140818	Mon	0751.0752	14825	641523	Danix	M868
20140819	Tue	0838-0842	14358	154263	Danix	M869
20140820	Wed	1025	14650	215346	ElmarE2Kde	Alert 2 (both G) 1
20140820	Wed	1045	16115	215346	Elmar	2.2
20140822	Fri	0530-0534	19610	216435	Eddy	Fair, new freq for this sked, G
20140822	Fri	0702-0707	9288	356412	PoSW	Alert 2.1 S5-6, M870
20140822	Fri	0710	12177	356412	PoSW	2.2 S9+, very short (a few secs), G
20140822	Fri	0815-0818	14970	216354	via Danix	R
20140825	Mon	0832-0843	12109	431625	Peter,Danix	Alert 2.1 Weak, M871 (C36 at 0947)
20140825	Mon	0840-0843	10372	216354	Peter	2.2 Weaker than 2.1, M872
20140825	Mon	0844-0846	10372	216354	Danix	S9, G
20140825	Mon	0931-0936	13517	463125	Peter	Fair, M873
20140825	Mon	1240-1241	15656	364152	Peter	Poor, M874
20140825	Mon	1350-1400	16115	215346	Peter	Weak, M875
20140826	Tue	1104-1112	13510	612534	Peter	S1, M876
20140827	Wed	0842-0849	11153	465132	Peter	Good, M877 (CROWD36 over X06)
20140827	Wed	0849-0852	16116	164253	Peter	Good, R
20140827	Wed	0854-0859	16116	134265	Peter	Good, M878
20140828	Thu	0752-0754	14419	521634	Peter	Good, M879
20140828	Thu	1513-1516	9106	564213	Peter	Fair, G
20140829	Fri	0958-1004	14863	615243	Peter	Good, G

Morse Station Roundup

Morse - Number Stations

UNID An unusual pair of numbers transmission, in the M01 type format was intercepted & logged by Jim (JkC) on 01 Aug. The same message of 50 groups was sent on both transmissions.

M01 The usual mixed bag from the regular M01 transmissions, with the sending of msgs ranging from excellent to abysmal. A particularly awful example was monitored on Tue 19 Aug where after sending the first three groups well, the transmission became completely incoherent with sequences of two or three figures mixed with longer strings of figures. After a long pause midway, a couple of 'VVs' were sent, after which the quality & speed improved considerably. Did another Operator take over the key? Another similarly chaotic transmission was sent on Thu 28 Aug.

Also in August numerous msgs were reused - most were repeated in full while another re-used only a block from a previous msg. Reusing msgs is not unknown with M01, although it still remains quite an uncommon event, particularly in this case where more than one msg was reused.

M01b also managed to fall victim to errors when the 2010z transmission on Fri 15 August failed to appear on the expected freqs but used the 1902z set instead. Did someone forget to retune the transmitter? On a couple of occasions Jim (JkC) reported that reception of the 2nd harmonic of the M01b transmission was as strong as on the fundamental.

M03 Continuing to be a challenging station to monitor in the UK, due to the often poor signal strength, but with luck & persistence it has been possible to log complete messages from M03, averaging around four new messages a month.

M08a As well as the usual high quality logs & analysis, Our Man in America has managed to catch a couple of interesting & unusual pieces of operator activity. A Cuban language voice intercept following the July transmitter outage, & in August, a Morse intercept from the Ministry of Foreign Affairs.

M12 Schedules remain steady & unchanging, as they have done for some time now, in contrast to the ever changing & evolving schedules from past years. Reports of a couple of transmissions outside of the known schedules would indicate that the elusive 'one-off' messages are still being utilised at times, but again, reports of these are down on previous years.

As previously reported, M12 continue to experience technical errors from time to time. It had been noted that call-ups sometimes cease & restart & that the spacing of the call-up is at times irregular..

M14 Following his report in the last newsletter, PoSW has successfully continued his search for M14 & has managed to catch some more interesting short-term schedules.

Guy (GD) reports on an M14 transmission on 22 July where the DK & GC were omitted from the end of the message. The same message had been previously sent on June 10 (this time, with the correct format). We have other reports of the reuse of messages, after some considerable time,

M23 Following two months of silence, M23 made a brief appearance on 15 July with a ten minute '200' call, monitored by Ary. We don't know if the station was active on that frequency over previous days, but no further calls were sent.

M24 Some interesting logs & comments. thanks again to PoSW with the 2nd part of his report, & to Jim (JkC) who also managed a good couple of logs of this increasingly elusive station.

M97 Continuing to intermittently send the message SD84, that has now been in use since August 2013. Although sent ten times over July, there have been no transmissions logged for August. Will we get a new message soon?

Morse Stations - Not Number related

M51a The daily Morse lessons continue as usual with 5 fig grps & plain text, although the schedules were a bit mixed up in July when monitored.

M89 Following the exercises carried out during May & June, activity has returned to the usual levels, although new frequencies, calls & schedules still continue to change from time to time. Operator 'chat' continues to be heard on many frequencies, though easily remembered or dialled in frequencies such as 5555, 6666 & 7777 are the most used.

Oddities

XC 'The Crackle', one of the more elusive of the oddities these days - and one of the most mysterious was reported several times during July. Once a regular feature on the short wave bands, this odd station has been rarely heard in recent years, but is seemingly still making occasional appearances.

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.

Morse - Number Stations

Unidentified CW (UNID)

Jim (JkC) logged these two transmissions, which due to the format he had tentatively called M01. Note that the same message is sent on both transmissions. By using the time taken for the 2nd (full) transmission, we can calculate the start of the 1st transmission as 1337z.

I've marked 2 skeds as "M01?", the first because I found it in progress, and the end faded out. However, the "hand" of 5939 kHz sounded, to me, exactly the same as the later 10424kHz. 10424kHz is question marked because of the new (to me) ID, though format appears to be M01. Both skeds displayed excellent keymanship, with none of the oft-heard games that M01 plays. *Jim (JkC)*

5939	1341(IP) - 1350z	01 Aug	[I/P ... Fades to nil] Weak. Each group sent twice, hand sent, short spacing between groups.	JkC	FRI
10424	1357 - 1410z	01 Aug	'710' 35750 = 65304 ... 44421 = 357 50 000 Fair	JkC	FRI

Each group sent twice, hand sent, very short spacing between groups.

Transcripts

5939kHz 1341z 01 Aug (each group twice)

I/P 1485
16481 79601 23742 25825 24408
03890 86130 55735 43977 03165
20569 31311 50413 23065 59815
63273 80997 98250 02389 64019
16945 45874 86865 50169 24791
11037 87464 39149 45657 62936
94558 63864 99481 80782 84550
96442 6*2100* ..... fades

Courtesy JkC

10424kHz 1357z 01 Aug (each group twice)

710 357 50 =

65304 91003 70251 34281 22911
14725 60248 30986 47698 71485
16481 79601 23742 25825 24408
03890 86130 55735 43977 03165
20569 31311 50413 23065 59815
63273 80997 98250 02389 64019
16945 45874 86865 50169 24791
11037 87464 39149 45657 62936
94558 63864 99481 80782 84540
96442 66810 65151 28996 44421
= 357 50 000

Courtesy JkC

Guy (GD) responded to Jim's logs with the following comments;

> Your M01? reminds me of M50 which was on many years ago, the only thing about that was the keying was always sloppy, but always 50 groups. Possibly a training net for M01. Used several frequencies 5431/4641/5373 and in February 2006 9576/7722, 73, *GD*

Although we are not able at present to positively place these transmissions into any of the Morse ENIGMA assignments, we perhaps should not be too surprised that with the events in Ukraine continuing & appearing to worsen daily, that out of course transmissions with an M01 type format are being monitored.

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

July 2014:

4905	2000z	01 Jul	'025' 30930 = =	16686...	...LG 17983 = = Strong, fast. Numerous errors & muddled	BR	TUE
	2000z	03 Jul	'025' 74130 = = = =	80711...	...LG 44951 = = = = Strong, fast. Errors noted. Ends 000 000	BR/Spectre	THU
	2000z	08 Jul	'025' 22730 = =	46537...	...LG 18537 = = Strong, fast. Excellent CW with no errors	BR	TUE
	2000z	10 Jul	'025' 21930 = =	11204...	...LG 30542 = = Fair (2009z)	JkC	THU
	2000z	15 Jul	'025' 84130 = = = =	74802...	...LG 96904 = = = = Strong, fast. Errors noted. Ends 000 000	BR	TUE
	2000z	17 Jul	'025' 78030 = =	44900...	...LG .2177 = = Strong, fast. Errors in Grps12 & 29/30	BR	THU
	2000z	22 Jul	'025' 60530 = =	88900...	...LG 29144 = = Strong, med-fast. Good CW. Errors in call-up	BR	TUE
	2000z	24 Jul	NRH			BR	THU
	2000z	29 Jul	'025' 17630 = =	79176...	...LG 37003 = = Strong, V.fast. Several errors noted	BR	TUE
	2000z	31 Jul	'025' 25630 = =	00055...	...LG 90393 = = Strong, med-fast. Tx problem - cutting out	BR	THU
5280	1800z	01 Jul	'025' 76430 = =	57045...	...LG 63015 = = Fair, fast. Excellent CW with no errors	BR/Spectre	TUE
	1800z	03 Jul	'025' 31230 = = = =	84726...	...LG 30080 = = = = Weak, fast. Errors noted. Ends 000 000	BR	THU
	1800z	08 Jul	V.weak. No useful copy			BR	TUE
	1800z	10 Jul	'025' 30730 = =	53878...	...LG 05035 = = Very Weak (1810z)	JkC	THU
	1800z	15 Jul	'025' 93730 = = = =	09368...	...LG 63979 = = = = Good. Ends 000 (long) 000 000 (Short)	BR	TUE
	1800z	17 Jul	NRH			BR	THU
	1800z	22 Jul	'025' 30730 = =	31357...	...LG 34327 = = 1808z QSA4	HRT	TUE
	1800z	24 Jul	'025' 11230 = =	. . . .	...LG. . . . . Very Weak Mostly U/R DK via Twente	BR/JkC	THU
	1800z	29 Jul	'025' 90630 = =	97778...	...LG 41986 = = Fair, v.fast. Corrected error grp10	BR	TUE
	1800z	31 Jul	'NRH			BR	THU
6435	1500z	05 Jul	'025' 73230 = =	67832...	...LG 45346 = = Fair / Strong	CB/HRT	SAT
	1500z	19 Jul	'025' 25830 = =	. . . .	...LG 76748 = = V.weak. No useful copy. Details via Twente	BR	SAT
6450	1500z	26 Jul	'025' 33230 = =	93563...	...LG 28532 = = Good, med-fast. **Using incorrect frequency**	BR	SAT
6780	0700z	06 Jul	'025' 18330 = =	54944...	...LG 79250 = = Fair	Spectre	SUN
	0703z	13 Jul	'025' 26830 = =	18690...	...LG 23482 = = Strong, fast. Late start straight into DK & GC	BR	SUN
	0700z	20 Jul	'025' 23930 = =	84773...	...LG 02803 = = Good, V.fast. Errors noted inc. two corrected	BR	SUN
	0703z	27 Jul	'025' 51430 = =	**98711...**	**...LG 48273** = = Good, v.fast. Late start. Numerous errors	BR	SUN

M01 4905kHz 2000z 03 July14

025 (R4m)

741 741 30 30 = =

80711 54144 30318 11055 82885
30329 20730 77482 20435 71962
20151 75323 65520 52927 79230
18159 16458 92589 26961 88140
67704 75041 17540 16885 91306
80754 59264 42479 01770 44951
= =

741 741 30 30 0 0 0 (2010z)

Courtesy Spectre

M01 6435kHz 1500z 05 July14

025 (R4m)

732 732 30 30 = =

67832 63341 34030 55166 46481
06099 86791 26777 60790 24322
67655 20108 58209 51734 90589
31250 46227 67930 97865 65098
65650 95799 88619 54412 74102
90052 79213 75311 18217 45346
= =

732 732 30 30 0 0 0 (1507z)

Courtesy HRT

M01 5280kHz 1800z 22 July14

025 (R4m)

307 307 30 30 = =

31357 80829 32817 35674 73184
91499 62934 89118 10234 87255
64364 74730 92969 86528 20390
12655 72389 05646 72576 38503
11288 35652 60203 95768 15752
04629 88833 82137 93502 34327
= =

307 307 30 30 0 0 0 (1808z)

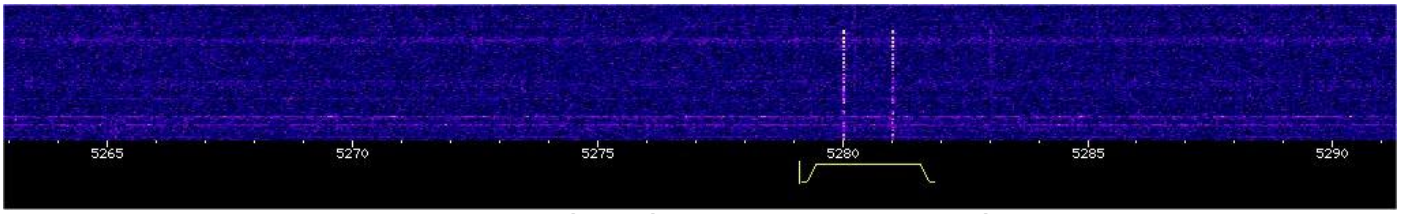
Courtesy HRT

August 2014:

4905	2000z	05 Aug	'025' 59830 = =	61331...	...LG 63976 = = Strong, fast. Errors in grps 28 - 29	BR	TUE
	2000z	07 Aug	'025' 48130 = =	37657...	...LG 63324 = = Strong, fast. Good CW with no errors	BR	THU
	2000z	12 Aug	'025' 01130 = =	**98711...**	**...LG 48273** = = Strong, med-fast. Numerous errors	BR	TUE
	2000z	14 Aug	'025' 57730 = = = =	**40063...**	...LG 68325 = = = = Strong, fast. 28 grps sent?	BR	THU
	2000z	19 Aug	'025' 07630 = =	35978...	...LG 16204 = = Strong, fast. Good CW. One noted error	BR	TUE
	2000z	21 Aug	'025' 77430 = =	**26810...**	**...LG 11599** = = Strong, fast. Excellent CW.	Ary/BR	THU
	2000z	26 Aug	'025' 77130 = =	**94020...**	**...LG 55518** = = Strong, fast. Several errors noted.	BR	TUE
	2000z	28 Aug	'025' 31330 = =	**. . . . .**	**...LG 5518 = =** Strong. Chaotic & garbled sending of msg	BR	THU
5280	1800z	05 Aug	'025' 70130 = =	**78985...**	**...LG 76447** = = Weak, med-fast. Good but Irregular CW	BR	TUE
	1800z	07 Aug	'025' 31530 = =	70738...	...LG. . . . . = = V.weak. Poor copy even via Twente	BR	THU
	1800z	12 Aug	'025' 52730 = =	**50063...**	...LG 10203 = = Fair, med-fast. Several errors noted	BR	TUE
	1800z	14 Aug	'025' 32930 = = = =	**98711...**	**...LG 48273** = = = = V.weak, fast. Excellent CW	BR	THU
	1800z	19 Aug	'025' 21530 = =	03406...	...LG 12720 = = Weak. Chaotic & garbled sending of msg.	BR	TUE
	1800z	21 Aug	'025' 33830 = =	**70792...**	**...LG 09192** = = Good, fast. Excellent CW. No noted errors	BR	THU
	1800z	26 Aug	'025' 51530 = =	99818...	...LG 20929 = = Strong, med-fast. Spacing & repeat errors.	BR	TUE
	1800z	28 Aug	'025' 17630 = =	88262...	...LG 17981 = = V.weak, med-fast. Poor. Details via Twente	BR	THU
6435	1500z	02 Aug	'025' 55730 = =	89 . 28...	...LG 46351 = = = = V.weak, med-fast. Detail via Twente	BR/JkC	SAT
	1500z	09 Aug	'025' 97130 = =	47380...	...LG 33022 = = Weak. med-fast	BR	SAT
	1500z	16 Aug	'025' 33330 = =	68527...	...LG 20103 = = Strong, fast. Good CW. Errors at EOM	BR/CB	SAT
	1500z	23 Aug	'025' 12730 = =	**70792...**	**...LG 09192** = = Very slow CW. Several errors noted	BR/CB	SAT
	1500z	30 Aug	'025' 12130 = = = =	16442...	...LG 13798 = = = = Strong, Excellent CW. Error in grp15	CB	SAT
6780	0700z	03 Aug	'025' 33430 = =	58 . . 9...	...LG 47008 = = Weak, fast. Detail via Twente	BR	SUN
	0700z	10 Aug	'025' 35130 = = = =	**78985...**	**...LG 76447** = = = = Good decreasing to weak, med-fast	BR	SUN
	0700z	17 Aug	'025' 07430 = =	. . . .	...LG 94907 = = Fair, fast. QRM from XJT	BR	SUN
	0700z	24 Aug	'025' 51230 = =	**26010...**	**...LG 11599** = = Fair, med-fast. Numerous errors noted	BR	SUN
	0700z	31 Aug	NRH			BR	SUN

Numerous msgs & part msgs were reused over the course of August - Details as follows;

Msg sent on Tue 05 Aug, 1800z repeated Sun 10 Aug, 0700z - but using different DK.
Msg sent on Sun 27 Jul, 0700z repeated Tue 12 Aug, 2000z & again on Thu 14 Aug, 1800z - but using different DKs
Msg sent on Tue 12 Aug, 1800z part repeated Thu 14 Aug, 2000z - but using different DK (First 15 grps but with errors - Note 1st grp)
Msg sent on Thu 21 Aug 1800z repeated Sat 23 Aug 1500z - Using different DK
Msg sent on Thu 21 Aug 2000z repeated Sun 24 Aug 0700z - Using different DK & with errors (Note 1st grp)
Msg sent on Tue 26 Aug 2000z repeated Thu 28 Aug 2000z - Using different DK (Very garbled version of original msg)



Tue 05 Aug 2014 1800z M01 in progress showing the unique 'two-tones' transmission 1kHz apart *Courtesy BR*

M01a (formerly end of month TXs, now random)
No reports

M01b

July 2014:

5065//5805	1940 - 1948z	10 Jul	'936' 71732 = 06351 ... 35680 = 717 32 000	V.weak//Weak	JkC	THU
	1940 - 1957z	24 Jul	'936' 32030 = 86183 ... 57346 = 320 30 000	Fair//Fair	JkC	THU
5075//5465	1902 - 1920z	11Jul	'336' 71732 = 06351 ... 35680 = 717 32 000	V.weak//Fair	JkC	FRI
5760	1832 - 5095z	10 Jul	'815' (Rest unworkable)	Very Weak //5095kHz NRH	JkC	THU
	1832 - 1849z	24 Jul	'815' 32030 = 86183 ... 57346 = 320 30 000	Weak //5095kHz NRH	JkC	THU

August 2014:

4895//5340	2010 - 2027z	01 Aug	'467' 32030 = 86183 ... 57346 = 320 30 000	Fair//Fair	JkC	FRI
	2010 - 1928z	22 Aug	'467' 11730 = 86183 ... 57346 = 117 30 000	Strong//Strong**	JkC	FRI
5075//5465	1902 - 1919z	01 Aug	'336' 32030 = 86183 ... 57346 = 320 30 000	V/weak//Fair	JkC	FRI
	1902 - 1919z	15 Aug	'336' 32030 = 86183 ... 57346 = 320 30 000	Fair//Strong*	JkC	FRI
	2010 - 2026z	**15 Aug**	**'467' 32030 = 86183 ... 57346 = 320 30 000**	**Fair//Fair***	JkC	FRI
			(M01b decided to repeat its 1902z freqs for the 2010z tx).			
	1902 - 1920z	22 Aug	'336' 11730 = 86183 ... 57346 = 117 30 000	Strong	JkC	FRI
5125//5735	1810 - 1827z	11 Aug	'364' 32030 = 86183 ... 57346 = 320 30 000	Fair//Fair	JkC	MON
5735	1810 - 1826z	25 Aug	'364' 11730 = = 86183 82219 . . . 49475 57346 = = 117 30 000		tiNG	MON

5150//5475	1915 - 1933z	11 Aug	'858' 32030 = 86183 ... 57346 = 320 30000 Fair//Fair	JkC	MON
5475	1916 - 1933z	25 Aug	'857' 11730 = = 86183 82219 . . . 49475 57346 = = 11730 000	tiNG	MON
5805	1942z	28 Aug	'936' 11730 = 86183 82219 53101 86537....etc.	RNGB	THU

*Jim (Jkc) reports that on 15 Aug the 2nd harmonic of the 5075kHz transmitter was receivable at the same fair strength as the fundamental both at 1902z & also on the 2010z transmission, which erroneously, it would seem, used the same freq set as the 1902z transmission.

**On 22 Aug JkC noticed that the transmitters used for the Low/High freqs has been swapped over, as now the 2nd harmonic of the 5340kHz transmission was clearly audible on 10680kHz.

M01c
No reports

M03 III ICW, some CW

July 2014:

6524	1535 - 1538z	01 Jul	798/00 (R3m) = = 000 Weak	Spectre	TUE
	1535 - 1538z	05 Jul	798/00 = = 0 0 0 Very strong signal here with low noise/Fair.	CB/Spectre	SAT
	1535 - 1538z	12 Jul	798/00 QSA5	HRT	SAT
	1535 - 1552z	15 Jul	797/34 = = 77034 55490....38332 = = 000	Ary/BR	TUE
	1535 - 1552z	19 Jul	797/34 = = 77034 55490....38332 = = 000 Fair	BR	SAT
	1535 - 1538z	26 Jul	798/00 (R3m) 000 Weak	BR	SAT
7727	1320z	09 Jul	543/00	HFD	WED
	1320 - 1337z	14 Jul	542/32 = = 13754 45626....42136 = = 000 Good with QSB	BR	MON
	1320 - 1323z	21 Jul	543/00 (R3m) 000 Good	BR	MON
	1320z	28 Jul	543/00 Weak	RNGB	MON
	1320 - 1323z	30 Jul	543/00 (R3m) 000 Fair	BR	WED
7837	1115 - 1133z	02 Jul	655/35 = = 26771 05639....53866 = = 000 Weak	BR	WED
	1115 - 1132z	03 Jul	655/35 = = 26771 05639....53866 = = 000 Fair	Spectre	THU
	1115 - 1118z	09 Jul	650/00 (R3m) 000 Weak	BR	WED
	1115 - 1118z	16 Jul	650/00 (R3m) 000 Good	BR	WED
	1115 - 1118z	17 Jul	650/00 (R3m) 000 Weak	BR	THU
	1115 - 1118z	23 Jul	650/00 (R3m) 000 Fair	BR	WED
	1115 - 1118z	24 Jul	650/00 (R3m) 000 Weak	BR	THU
	1320 - 1337z	03 Jul	437/34 = = 27826 92236 19506 18201 73973.....35677 Fair / Good	RNGB/Spectre	THU
	1320z	06 Jul	437/34 = = 27826 92236 19506 18201 73973..... (Missed ending)	Ary/HRT	SUN
	1320 - 1323z	10 Jul	437/00 (R3m) = = 000 Fair	BR	THU
	1320 - 1323z	27 Jul	437/00 (R3m) = = 000 Fair	BR	SUN
	1320 - 1323z	31 Jul	437/00 (R3m) = = 000 Fair	BR	THU

M03 7837kHz 1115z 03 July14

655/35 (R2m) = =

26771 05639 04043 45229 13034
33323 95296 94909 73401 86829
97474 59465 39421 46753 69749
54315 80614 19015 38715 90679
24584 07513 23582 38901 39649
04024 36572 57768 42490 61888
98735 90880 68768 69146 53866
= =

655/35 (single group repeat) = 000

Courtesy Spectre

M03 7727kHz 1320z 14 July14

542/32 (R2m) = =

13754 45626 63793 98119 54487
90729 22850 56436 33696 04377
40814 32502 87444 69531 00062
95549 75254 95008 34689 85923
57487 73306 26239 01460 10217
54489 85180 95568 38651 80246
47127 42136 = =

542/32 (single group repeat) = 000

Courtesy BR

M03 6524kHz 1535z 15 July14

797/34 (R2m) = =

77034 55490 57707 91647 73141
90817 98459 14923 19942 44113
00882 21957 44043 60202 78487
44104 01200 44806 01869 97960
89674 42656 60159 78306 93923
85670 62576 34782 09662 24601
37387 58006 96967 38332 = =

797/34 (single group repeat) = 000

Courtesy AB

August 2014:

6524	1535 - 1538z	02 Aug	798/00 = 000 Fair	JkC	SAT
	1535 - 1538z	09 Aug	798/00 (R3m) 000 Weak	BR	SAT
	1535 - 1538z	16 Aug	798/00 (R3m) 000 V.Strong	CB	SAT
	1535 - 1551z	19 Aug	797/31 = = 44386 39899....78022 = = 000	BR	TUE
	1535 - 1551z	23 Aug	797/31 = = 44386....78022	Ary/CB	SAT
7727	1320 - 1323z	06 Aug	543/00 (R3m) 000 Fair	BR	WED
	1320 - 1323z	11 Aug	543/00 = 000 Strong	JkC	MON
	1320 - 1338z	18 Aug	544/33 = = 16788 58171....21172 = = 000	Ary	MON
	1320 - 1338z	20 Aug	544/33 = = 16788 58171....21172 = = 000	BR	WED
7837	1115 - 1131z	06 Aug	655/32 = = 08711 11761....99330 = = 000	Ary	WED
	1115 - 1131z	07 Aug	655/32 = = 08711 11761....99330 = = 000	BR	THU
	1115 - 1118z	20 Aug	650/00 (R3m) 000 Fair	BR	WED
	1320 - 1323z	03 Aug	437/00 (R3m) 000 Fair	BR	SUN
	1320 - 1323z	14 Aug	437/00 (R3m) 000 Fair	BR	THU

	1320 - 1323z	24 Aug	437/00 (R3m) 000 Weak	BR	SUN
	1320z	28 Aug	431/33 = 76515 62852 06100 58288 33226.....65699	RNGB	THU
	1320 - 1337z	31 Aug	431/33 = = 76515 62852....65699 = = 000	BR	SUN
15632	1420z	08 Aug	879/00	RNGB	FRI
	1420 - 1423z	10 Aug	879/00	BR	SUN
	1420 - 1423z	22 Aug	859/00 = = 000 Strong	JkC	FRI
	1420z	24 Aug	879/00	HFD	SUN
	1420 - 1423z	31 Aug	879/00 (R3m) 000 Fair	BR	SUN

M03c (Stutter groups)
No reports

M03d
No reports

M03e
No reports

M08a XVIII ICW / CW, some MCW

Our Man in America, AnonUS, continues to keep his ears tuned to the Cuban activity. Here is his latest report;

M08a has continued on the same frequencies and schedules during July/August. It seems that M08a was affected by the same transmitter outage that took HM01 off the air between July 10th and 14th although for M08a the outage continued until the morning of the 16th when M08a returned in its 1400z slot. Prior to the M08a transmission starting, operator voice traffic was monitored.

Voice Traffic 8096kHz 16 July 1400z

Directly before the transmission started some Cuban (according to our translator) voice traffic was heard which seems to have been some form of transmitter check. As follows;

"Hello Hello Hello 1 2 3 4 5 6 7 8 9 10"
"I can see 4, I can see 4, I can see 1"
"I can see 4, I can see 4, I can see 1"
"I can see 4, I can see 4, I can see 1"
"1 2 3 4 5 6 7 8 9 10 I can see 4, I can see 4, I can see 1"
"Correct, I can see 4, Zero QPD of 15, QPD of 15"
"OK, **One for Pedro, One for Pedro**"
"QPD of 15, QPD of 15."
"Hello Hello Hello, I can see 4, I can see 4, I can see 1"
"I can see 4, I can see 4, I can see 1"
"Correct, we will keep in touch."
"Correct, we will keep in touch."

So Pedro's existence can now be confirmed it seems!

Morse Traffic

8097kHz 20 Aug 1400z

Another incidental piece of monitoring, also from AnonUS, may reveal a little more about the transmitters used by M08a. On 20 Aug at 1400z a Morse station was heard on 8097kHz. From the recording we were able to establish that the station appeared to be the Cuban Ministry of Foreign Affairs trying to establish a contact with their embassy in Harare, Zimbabwe. The Morse was hand-sent & awful. How these people ever manage to send any useful messages is a wonder!

The station can be heard calling CLP44 repeatedly, although the Op. was so bad that it was variously sent as CLLP44, CLPS, KLP4, CLW44 & CLW, however quite clearly in the middle of the QSO can be heard;

VVV VVV VVV **CLP44 CLP44** DE **CLP1** QSV

(There is then presumably some freq change suggested as CLP1 sends UP... UP... followed by some QSA info before ending).

From a call sign list we were able to identify both stations. CLP1 As MFA Cuba & CLP44 as the Cuban embassy Harare, Zimbabwe.

Apart from the transmitter outage, the usual weekend call-ups have persisted and they were also once noted by Ary on a Wednesday (20/8 at 0500z on 5855kHz).

July 2014:

7554	2000z	01 Jul	[24432 37851 40281]		AnonUS	TUE
	2000z	03 Jul	[61802 83321 06652]		AnonUS	THU
	2000z	06 Jul	[18262 22501 35022]	Usual weekend call-ups	AnonUS	SUN
	2000z	08 Jul	[30542 41372 54602]		AnonUS	TUE
	2000z	10 Jul	[33062 46381 50722]		AnonUS	THU
	2000z	17 Jul	[15772 26422 31441]		AnonUS	THU
	2000z	26 Jul	[18262 22501 35022]	Usual weekend call-ups	AnonUS	SAT
	2000z	29 Jul	[56271 60512 73841]		AnonUS	TUE
	2000z	31 Jul	[31362 44601 57122]		AnonUS	THU
8009	*2300z*	*30 Jun*	*[- - - - - - - - - - - - - -]*	*Carrier only*	*AnonUS*	*MON*
	2300z	07 Jul	[27761 30401 42831]		AnonUS	MON
	2300z	09 Jul	[78672 82111 05432]		AnonUS	WED
	2300z	26 Jul	[18262 22501 35022]	Usual weekend call-ups	AnonUS	SAT
	2300z	30 Jul	[65231 78652 83672]		AnonUS	WED
8096	*1400z*	*30 Jun*	*[55511 66241 72262]*		*AnonUS*	*MON*

	1400z	01 Jul	[74602 07031 13062]		AnonUS	TUE
	1400z	02 Jul	[62222 75641 08072]		AnonUS	WED
	1400z	03 Jul	[- - - - - - - - - - - - - - -]	Garbled Morse	AnonUS	THU
	1400z	07 Jul	[40632 63151 76482]		AnonUS	MON
	1400z	16 Jul	[- - - - - 31631 44052]	**Spanish chat on the hour** (See 'Voice Traffic' above)	AnonUS	WED
	1400z	17 Jul	[08641 12162 25402]		AnonUS	THU
	1400z	21 Jul	[78011 81441 04762]		AnonUS	MON
	1400z	24 Jul	[78042 81361 04602]	Off air shortly after the call-ups	AnonUS	THU
	1400z	25 Jul	[80771 02212 15531]		AnonUS	FRI
	1400z	26 Jul	[18262 22501 35022]	Usual weekend call-ups	AnonUS	SAT
	1400z	28 Jul	[30831 43262 66582]		AnonUS	MON
	2300z	28 Jul	[82482 05712 18141]		AnonUS	MON
	1400z	29 Jul	[41141 54562 67802]		AnonUS	TUE
8135	2300z	01 Jul	[73881 00642 36222]		AnonUS	TUE
	2300z	03 Jul	[- - - - - - - - - - - - - - - -]	Garbled Morse.	AnonUS	THU
	2300z	08 Jul	[76452 - - - - - - - - - -]	Up early only first call-up copied. HM01 audible on same frequency.	AnonUS	TUE
	2300z	17 Jul	[33462 46701 50222]		AnonUS	THU
	2300z	18 Jul	[67111 81432 04861]		AnonUS	FRI
	2300z	21 Jul	[54121 67452 31602]		AnonUS	MON
	2300z	24 Jul	[- - - - - - - - - - 43231]	Up late in progress	AnonUS	THU
	2300z	27 Jul	[18262 22501 35022]	Usual weekend call-ups	AnonUS	SUN
	2300z	29 Jul	HM01 in progress LSB/CW mode		AnonUS	TUE

August 2014:

7554	2000z	05 Aug	[24318 433- - - - - -]	Up late, only caught partial call-ups	AnonUS	WED
	2000z	07Aug	[45251 58572 61811]		AnonUS	THU
	2000z	10 Aug	[- - - - - - - - - - - - - - -]	Up late in progress	AnonUS	SUN
	2000z	11 Aug	[86631 07371 32432]		AnonUS	MON
	2000z	13 Aug	[- - - - - - - - - - - - - - -]	Up late in progress	AnonUS	WED
	2000z	14 Aug	[73331 86652 00081]		AnonUS	THU
	2000z	16 Aug	[- - - - - - - - - - - - - - -]	Up late in progress	AnonUS	SAT
	2000z	26 Aug	[82731 15152 28581]		AnonUS	TUE
8009	2300z	04 Aug	[04412 17731 21262]		AnonUS	MON
	2300z	16 Aug	[18262 22501 35022]		AnonUS	SAT
	2300z	25 Aug	[21811 34342 47661]		AnonUS	MON
8096	1400z	02 Aug	[18262 22501 35022]	Usual weekend call-ups	AnonUS	SAT
	1400z	05 Aug	[80331 03751 16182]		AnonUS	TUE
	1400z	06 Aug	[67872 71211 84531]		AnonUS	WED
	1400z	07 Aug	[35821 48252 52571]		AnonUS	THU
	1400z	10 Aug	[18262 22501 35022]	Usual weekend call-ups	AnonUS	SUN
	1400z	12 Aug	[44122 57141 60871]		AnonUS	TUE
	1400z	13 Aug	[71132 84462 07731]		AnonUS	WED
	1400z	14 Aug	[53851 66282 70621]		AnonUS	THU
	1400z	16 Aug	[18262 22501 35022]		AnonUS	SAT
	1400z	17 Aug	[18262 22501 35022]		AnonUS	SUN
	1326z(IP)	18 Aug	Came up in progress ending at 1334z. Different ending to the 1400z sched, then AR AR AR SK Possibly a 1300z schedule out there?		AnonUS	MON
	1400z	18 Aug	[76371 88011 01431]		AnonUS	MON
	2000z	21 Aug	[66- - - - - - - - 82502]		AnonUS	THU
	2000z	25 Aug	[- - - - - - - - - - - - - - -]	Present but too weak to copy	AnonUS	MON
8135	2300z	01 Aug	[41772 64111 77432]		AnonUS	FRI
	2300z	07 Aug	Up late in progress		AnonUS	THU
	2300z	07 Aug	[38301 - - - - - - - - - -]	Up late, only caught first call-up	AnonUS	FRI
	2300z	10 Aug	[18262 22501 35022]	Usual weekend call-ups	AnonUS	SUN
	2300z	12 Aug	[73852 86281 00611]		AnonUS	TUE
	2300z	13 Aug	[28282 32521 45042]		AnonUS	WED
	2300z	15 Aug	[42661 55082 68321]		AnonUS	FRI
	2300z	17Aug	[18262 22501 35022]		AnonUS	SUN
	2300z	22Aug	[66801 70222 83561]		AnonUS	FRI
	2300z	26 Aug	[- - - - - - - - - - - - - - -]	Up late in progress	AnonUS	TUE

Call-up Analysis

Analysis of the number order between call-ups using the procedure outlined in the March/April newsletter. The pattern follows that previously seen in most cases.

55511 66241 72262 11 15 60 32	65231 78652 83672 11 34 40 22	35821 48252 52571 11 33 33 32
74602 07031 13062 21 35 30 33	31362 44601 57122 11 33 34 32	45251 58572 61811 11 32 33 23
24432 37851 40281 11 32 43 23	41772 64111 77432 21 33 33 32	86631 07371 32432 23 14 61 44
73881 00642 36222 23 66 75 57	04412 17731 21262 11 33 34 23	44122 57541 60871 11 32 43 23
62222 75641 08072 12 33 43 23	80331 03751 16182 11 33 43 23	73852 86281 00611 11 33 33 32
61802 83321 06652 21 23 43 23	67872 71211 84531 11 33 33 32	28282 32521 45042 11 33 34 32
40632 63151 76482 21 33 43 23	35821 48252 52571 11 33 33 32	71132 84462 07731 11 33 33 36
27761 30401 42831 11 22 64 33	45251 58572 61811 11 32 33 23	53851 66282 70621 11 33 34 33
30542 41372 54602 11 13 73 32	86631 07371 32432 23 14 61 44	73331 86652 00081 11 33 33 23
78672 82111 05432 11 32 43 32	44122 57541 60871 11 32 43 23	42661 55082 68321 11 33 33 23
33062 46381 50722 11 33 34 23	73852 86281 00611 11 33 33 32	76371 88011 01431 11 22 64 32
- - - - - 31631 44052 ?1 ?3 ?3 ?2	28282 32521 45042 11 33 34 32	66801 70222 83551 11 33 33 23
08641 12162 25402 11 32 43 23	71132 84462 07731 11 33 33 36	21811 34342 47661 11 33 43 32
15772 26422 31441 11 14 60 42	53851 66282 70621 11 33 34 33	82731 15152 28581 21 33 34 23
33462 46701 50222 11 33 34 32	73331 86652 00081 11 33 33 23	
67111 81432 04861 21 33 34 23	42661 55082 68321 11 33 33 23	*Courtesy AnonUS*
30831 43262 66582 12 33 32 32	76371 88011 01431 11 22 64 32	
82482 05712 18141 11 33 33 23	66801 70222 83551 11 33 33 23	
41141 54562 67802 11 33 43 23	80331 03751 16182 11 33 43 23	
56271 60512 73841 11 33 33 33	67872 71211 84531 11 33 33 32	

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

To be read in conjunction with Brian's monthly logs available in the charts section. 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.

July 2014:

6857/7557/---	0430/0450/0510z	14 Jul	850 000	HFD	MON
8047/6802/5788	1700/1720/1740z	09 Jul	463 1 (110867) 14686 58302....83732	Ary/HFD	WED
9176/7931/6904	1700/20/40z	10 Jul	257 1 (903350)(2)6207 ... 73024 000 Strong/Strong/Fair	HFD/JkC	THU
	1900/20/40z	10 Jul	257 1 (789855) 92373 ... 28090 000 Strong/Strong/Fair	HFD/JkC	THU
	1900/20/40z	24 Jul	257 1 (741158) 35143 ... 38087 000 1905z Strong	JkC	THU
9184	0650z	31 Jul	911 911 911 000	Ary	THU
9379/7979/---	2100/20/40z	09 Jul	398 000	HFD/JkC/JPL	WED
10343/9264/8116	1830/1850/1910z	01 Jul	124 1	HFD	TUE
	1700/20/40z	10 Jul	124 1 (1191142) 78011 ... 46158 000 Strong/Strong/Fair	JkC	THU
	1800/20/40z	10 Jul	124 1 (1960110) 88449 ... 68928 000 Strong	JkC	THU
	1800/20/40z	24 Jul	124 1 (7472111) 86881 ... 24937 000 1809z Strong	JkC	THU
11435/10598/9327	1830/1850/1910z	02 Jul	938 1	HFD	WED
9327	1642z (IP)	07 Jul	(In progress) 93867 24142 57084 000 000	Ary	MON
11435/10698/9327	1830/1850/1910z	09 Jul	938 1 (685668) 85411 42616...06313	Ary	WED
9327	1640z	14 Jul	938 1 (2716113) 83508 21017...16877	Ary	MON
11435/10598/9327	1600/1620/1640z	21 Jul	938 1 (9455107) 33366 91272....46262	Ary/HFD	MON
13386/12189/11491	1600/20/40z	10 Jul	725 1 (7557105) 11938 ... 72243 000 Strong	HFD/JkC	THU
13926/12126/10925	1310/1330/1350z	10 Jul	919 000	HFD	THU
	1310/1330/1350z	17 Jul	919 1 (1957131) 84468 41817....88235	Ary	THU
14869/13569/---	2110/30/50z	09 Jul	851 000 Strong	HFD/JkC	WED
14869	2110z	16 Jul	851 1 (7826175) 14980 .... 10421 000 000 QSA 4	DanAR	WED

August 2014:

7484/8084/---	0630/0650/0710z	28 Aug	402 000	HFD	THU
8047/6802/5788	1700/20/50z	06 Aug	463 1 (252649) 23235 87253 99929....90626 000 000	Ary	WED
	1700/20/40z	11 Aug	463 1 (8812143) 29968 ... 21034 000 1710z Strong	JkC	MON
8123/6923/5823	2100/20/40z	13 Aug	198 1	HFD	WED
	2100/20/40z	27 Aug	198 000	RNGB	WED
9165/9166	0807z	15 Aug	In progress at 0807, finished after a few seconds 68646 000 000	RNGB	FRI
9176/7931/6904	1800/20/40z	11 Aug	257 1 (660554) 66140 ... 66643 000 1805z Strong	HFD/JkC	MON
	1900/20/40z	11 Aug	257 1 (2451109) 94421 ... 28741 000 1909z Strong	JkC	MON
9176	1900z	14 Aug	257 1 (996046) 81766 ... 38507	Gert	THU
9176/7931/6904	1700/1720/1740z	21 Aug	257 1 (541884) 65051 02185 08195 28974....49011	Ary	THU

10343/9264/8116	1700/20/40z	28 Aug	124 1	HFD	THU
9264	1820z	14 Aug	124 1 (6475 102) 53638 ...32299	Gert	THU
11435/10598/9327	1600/20/40z	04 Aug	938 1	HFD	MON
	1600/20/40z	11 Aug	938 1 (9468 100) 10672 ... 93793 000 1608z Strong	JkC	MON
13369/12179/10469	2110/30/50z	13 Aug	314 000	HFD	WED
	2110/30/50z	23 Aug	314 1 (400 135) 94189 50577 54627 09570	Ary	SAT
12189/11491	1620/40z	21 Aug	725 1 (6474 100) 84746 59732 10808...75924	Ary	THU
14468/13568/12178	1310/30/50z	02 Aug	451 000	HFD	SAT
	1310/30z	21 Aug	451 1 (1883 167) 17437 08667 35302... 58891	Ary	THU

M12 8047/6802/5788 kHz 1700/1720/1740z 09 July14

463 463 463 1 (R2m)

1108 67 1108 67

14686 58302 69429 42963 41146 81990 99497 70344 76847 03894
72198 67553 64419 88909 69565 55293 60879 64861 62933 84749
04428 07054 53944 44781 84858 70682 66705 09994 90185 41421
18031 36001 64325 37279 63465 29630 28324 75259 69168 69892
28704 75582 48455 26055 30538 45354 06801 69311 69859 78887
22103 40913 59666 96291 88164 20614 06697 25269 10095 60942
92191 61638 20515 92162 16072 88039 83732 000 000

Courtesy Ary

M12 9176kHz 1900z 14 Aug14

257 257 257 1 (R2m)

9960 46 9960 46

81766 24837 75154 46904 22731 75990 25985 25568 35661 26174
98738 50139 86099 75702 01705 92608 16635 11528 20671 43595
86805 78871 67393 86863 60596 97794 82329 98281 81293 68915
54211 02450 08708 22123 70221 66538 01058 03784 85666 75229
60836 92162 77462 92324 01014 38507 000 000

Courtesy Gert

M14 IA MCW / ICW / MCWCC, short 0

PoSW has sent this comprehensive report on some M14 activity, including a previously unknown schedule, running on alternate days found at the start of July ;

I noted a regular M14 CW schedule in July, which turned out to be running on a one day on - one day off, i.e. alternate days, schedule, at least I never found it on two consecutive days. This was at 1700 UTC on 10755kHz repeated half an hour later, 1730 UTC on 9073kHz. Call was always "975" and was the M14 format of four minutes of call-up, then DKDK GCGC and = = followed by 5Fs as doubles, 5-dash "00000" ending. I made a point of monitoring every day:-

03 July14	Thursday	DK/GC	"386 386 55 55"	
05 July14	Saturday	DK/GC	"401 401 52 52"	The first sending on 10755kHz vanished in mid-message at 1709 UTC, came back about a minute later with "975" call-up for several minutes then resumed 5F groups.
07July14	Monday		A two-message transmission,	first message only two 5F groups, "11111 00016", then "975" call-up again and second message, "832 832 57 57".
09 July14	Wed	DK/GC	"324 324 51 51"	
11 July14	Friday	DK/GC	"168 168 54 54"	
13 July14	Sunday	DK/GC	"204 204 51 51"	
15 July14	Tuesday	DK/GC	"418 418 53 53"	
17 July14	Thursday	DK/GC	"863 863 55 55"	And this was the only occasion on which the second sending at 1730 UTC was not transmitted on 9073 kHz, instead it was "twenty up", i.e. 9093kHz.
19 July14	Saturday	DK/GC	"483 483 52 52"	
21 July14	Monday	DK/GC	"620 620 16 16"	A much shorter message than usual.
23 July14	Wed	DK/GC	"213 213 55 55"	

That was the last occasion this schedule was heard, not found on Friday the 25th, or since.

The frequency used for the first transmission, 10755kHz, has "previous", so to speak; on Thursday 06 February of this year at around 1809 UTC I happened to find a Spanish language YL number station on 10755 with a format similar to S06/E06/G06, so I suppose you could call it V06. There were several 5F messages and in between them the call-up in Spanish was, "Nueve siete cinco", i.e. "975", so something more than a coincidence, no doubt. I only heard this on the one occasion. Also, 10755kHz has been noted with an M23 transmission, a three figure call repeated over and over, on a couple of occasions, one earlier this year and one last year:-
03 April14, Thursday:- 1758 UTC, 10755kHz, S9+ slow CW sending "747" over and over.

13 Oct13, Sunday, almost a year ago, 1501 UTC, 10755kHz, very strong S9+ slow CW sending "246", ended after 1515 UTC with a 15 second carrier.

There was another M14 CW schedule running in July although I only heard it twice. It was on at the same time as the "975" M14 schedule, the two occasions I heard it were on 21 July and 23 July, 1700 UTC, 10423kHz, and 1730 UTC, 8167kHz with call "058". This schedule had also been noted earlier in the summer, was logged daily in the last days of May and continued into June ending on the 6th of that month. In July:-

21 July14 Monday 1709 UTC 10423kHz, M14 CW in progress, S9+, much stronger than the "975" running at the same time on 10755. Found while tuning down from 10755, not noted before, I am sure I would have found it if it had been there before. Ended with, "= = 932 932 51 51 00000".

1730 UTC, 8167kHz, calling "058", DK/GC "932 932 51 51", second sending on the expected frequency.

23 July14 Wednesday, for the second and last appearance we were treated to a two-message transmission:-

1700 UTC, 10,423 kHz, call "058", DK/GC "716 716 2 2", so a very short message, just two 5F groups, "11111 00014", then "058" call again followed by second message, "641 641 52 52".

1730 UTC, 8,167 kHz, second sending.

Neither "975" or "058" heard again in the rest of July or in August.

Thanks PoSW. An excellent report. (Please see the second part of PoSW's report under M24).

Other M14 Logs received;

July 2014:

Guy (GD) logged this msg on 22 July, noting that at the end of the msg, no DK or GC was sent. Further, as we added the log to the column, it was noticed that this same msg was sent on Tue 10 June (Same freq & time) & Logged by Jim (JkC), but on this occasion the full ending, including DK & GC ending was sent.

6856	1820z	22 Jul	163 (254020) = 44108...82828 **(Note ending: Did not send DK or GC)**	GD	TUE

Jim (JkC) writes, *'These M14s look interesting, two different Txs at the same time, one of them looking like a message sent 19 July last year (which was also found in progress), but with a different DK.'*

10423	1703z (IP) - 1721z	11 Jul	058 (627 52) = 56001 ...93361 = 627 52 00000 Fair 20wpm	JkC	FRI
10755	1708z (IP) - 1712z	11 Jul	(168 54) ...21290 = 168 54 00000 Fair 20wpm This looks like a repeat of 19 July 2013 at 1735z with a different DK	JkC	FRI

August 2014:

6856	1820z	12 Aug	163 (254020) = 44108 38962.....82828 00000 (Repeat of 22 June msg)	RNGB	TUE
6891	1800 - 1802z	15 Aug	382 00000 Strong	JkC	FRI
7485	1700 - 1740z	01 Aug	382 00000 Strong	JkC	FRI

M14a (two message variant)
No reports

M23 O ICW

6961	0700z	15 Jul	'200' (R10m)	Ary	TUE

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

PoSW was not only busy with M14, but also managed to land some M24 intercepts. PoSW writes;

> There was also some M24 CW running in July, i.e. the much faster version of M14 – I think I may have incorrectly called this format "M28" last time, probably something going on in my brain which thought that since it was twice the speed of M14 then it ought to be twice the designation. However, the following heard in July, many thanks to Mr Sanyo's cassette recorder, had to play back several times to get the details:-
>
> 07 July14 Monday 1740 UTC 8078kHz. Fast CW in progress, S9 signal, on at the same time as the M14 "975" on 9073kHz. Ivan is very busy these days! Ended a few minutes later with, "= = 456 456 108 108 00000".
>
> 09 July14 Wed 1736 UTC 8078kHz Strong M24 CW in progress, ended 1741 UTC with, "= = 830 830 69 69 00000". Same spot on the dial!
>
> 09 July14 Wed 1903 UTC 8095kHz More M24 CW, call-up in progress, "343" DK/GC "901 901 73 73 = =".

Another excellent report PoSW - Many thanks! An excellent tip there too. For those not up to the fast speed of M24 (or even some of the slower stations), the use of a cassette recorder to enable the transmission to be played over again until you are able to pick out the details, is a very good way of both monitoring & building up your Morse skills. For the more computer literate, the use of a recording program such as 'Audacity' will also do this - and more. Google it - it's free.

Other M24 logs received;

8096	2030 - 2045z	21 Jul	381 (642 108) = 33910 ...06851 = 642 108 00000 Strong	JkC	MON
10834	2006z (IP)	21 Jul	[I/P ..... LG 06851 = 642 108 00000] 2015z Strong 25wpm	JkC	MON

M24a (two message variant)
No reports

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 - though improving as winter moves in.

Token's logs were all logged via his Rx in the Mojave Desert - which is also one of our main remote SDR options when reception is not possible in the UK.

M97 is still sending msg SD84, the same message it has been transmitting intermittently now since August 09 2013.

10375	1459 - 1520z	01 Jul	SD84 SN58	Strong Sig Via GlobalTuners, Hong Kong	BR/Token	TUE
10375	1459 - 1520z	02 Jul	SD84 SN58	Weak Sig Via Twente SDR	BR/Token	WED
10375	1459 - 1520z	03 Jul	SD84 SN58	Weak Sig Via Twente SDR	BR/Token	THU
10375	1459z	14 Jul	SD84 SN58		Token	MON
10375	1459 - 1520z	15 Jul	SD84 SN58	Strong Sig Via GlobalTuners, Hong Kong	BR/Token	TUE
10375	1459 - 1520z	16 Jul	SD84 SN58	Strong Sig Via GlobalTuners, Mojave Des.	BR/Token	WED
10375	1458 - 1519z	23 Jul	SD84 SN58	Strong Sig Via GlobalTuners, Mojave Des.	BR/Token	WED
10375	1458 - 1519z	24 Jul	SD84 SN58	Strong Sig Via GlobalTuners, Mojave Des.	BR/Token	THU
10375	1458 - 1519z	28 Jul	SD84 SN58	Strong Sig Via GlobalTuners, Mojave Des.	BR	MON
10375	1458 - 1519z	29 Jul	SD84 SN58	Strong Sig Via GlobalTuners, Hong Kong	BR	TUE

Morse Stations - Not Number Related

M51 XlX

8549	0712z (IP)	25 Jul	NR 58 J 25 09:12:46 2014 = EZQAQ NSJHR XYPCP KYSKT ...	Ary	FRI

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

M51 appears to have got its schedules mixed up for a while, putting out the incorrect day's lessons on both Tue 15 & Wed 16 July.

3881//6825

1130 - 1204z	15 Jul	Mercredi-Lecon	13-2/1 Codé	13-2/2 Clair, 13-2/3 Codé, 13-2/4 Clair (720 grps/hr)	BR	TUE
1130 - 1156z	16 Jul	Jeudi-Lecon	14-2/1 Codé	14-2/2 Clair, 14-2/3 Codé, 14-2/4 Clair (840 grps/hr)	BR	WED
1130 - 1156z	17 Jul	Jeudi-Lecon	24-2/1 Codé	24-2/2 Clair, 24-2/3 Codé, 24-2/4 Clair (840 grps/hr)	BR	THU
1130 - 1202z	18 Jul	Vendredi-Lecon	25-2/1 Codé	25-2/2 Clair, 25-2/3 Codé, 25-2/4 Clair (960 grps/hr)	BR	FRI

M89 O

This is a summary of activity from the M89 stations. To be read in conjunction with JPL's full logs which can now be found in the charts section.

Operator Chat from M89

Op. chat & traffic reported on the following freqs. (See JPL's full logs for details).

3225	4001	5153	6340	7740	8000	10204
3616	4061	5218	6376	7748	8012	10383
	4120	5273	6377	7749	8073	10455
	4477	5365	6666	7767	8111	
	4532	5373	6772	7777	8122	
	4720	5380	6788	7788	8125	
	4742	5533	6779	7877	8212	
		5555	6881	7878	8232	
		5710	6908		8887	
			6936		8888	
			6974		8945	

New Scheds for Jul / Aug 2014: From logs submitted from JPL

3300//NRH	Re-use of round slip from 12 June 2013	First heard 12 July	V 8CPZ (x3) DE XW6W (x2)
	Back to using old round slip	First heard 15 Aug	V MW3D (x3) DE 2SLC (x2)
3777//4532	New frequency for this round slip.	First heard 02 July	V M8JF (x3) DE RIS9 (x2)
4225//8110	New pairing for this round slip	First heard 10 August	V (x3) 7NPE (x3) DE QV5B (x2)
5588//NRH	Changed Round Slip	First heard 15 Jul	V 8CPZ (x3) DE XW6W (x2)
	Back to using old round slip	First heard 16 Aug	V MW3D (x3) DE 2SLC (x2)
8060//NRH	New frequency for this round slip	First heard 12 July	V M8JF (x3) DE RIS9 (x2)
6793//8060	New frequency (// for 8060 kHz)	First heard 06 August	V M8JF (x3) DE RIS9 (x2)

Chart of M89 Freq & Call signs heard in Jul / Aug 2014 New Scheds shown in Bold Type

Freq in KHz	Call Slip
3300//NRH	V MW3D (x3) DE 2SLC (x2) **V 8CPZ (x3) DE XW6W** (x2)
3642//NRH	V DKG6 (x3) DE 3A7D (x2)
3642//7602	V DKG6 (x3) DE 3A7D (x2)
3777//4532	**V M8JF (x3) DE RIS9 (x2)**
3820//5657	V GKLO (x3) DE TYUI (x2)
4131//NRH	V JKDJ (x3) DE SLBC (x2)
4225//8110	**V (x3) 7NPE (x3) DE QV5B (x2)**
4532//NRH	V M8JF (x3) DE RIS9 (x2)
4860//6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ?
5177//NRH	V JKDJ (x3) DE SLBC (x2)
5500//NRH	V 7NPE (x3) DE QV5B (x2)
5588//NRH	V MW3D (x3) DE 2SLC (x2) **V 8CPZ (x3) DE XW6W (x2)**

Freq in kHz	Call Slip
5657//NRH	V GKLO (x3) DE TYUI (x2)
5801//7602	V DKG6 (x3) DE 3A7D (x2)
5801//10180	V DKG6 (x3) DE 3A7D (x2)
6793//8060	**V M8JF (x3) DE RIS9 (x2)**
6840//NRH	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K
6840//10640	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K
7582//NRH	V 7NPE (x3) DE QV5B (x2)
8060//NRH	**V M8JF (x3) DE RIS9 (x2)**
8072//NRH	**V GKLO (x3) DE TYUI (x2)**
8072//10421	V GKLO (x3) DE TYUI (x2)
8110//NRH	V 7NPE (x3) DE QV5B (x2)
8101//10180	V DKG6 (x3) DE 3A7D (x2)
10180//NRH	V DKG6 (x3) DE 3A7D (x2)

Courtesy JPL

Oddities

XC 'The Crackle'

We received several reports of activity from 'The Crackle' during July. On 09 July, Jim (JkC) reported hearing the signal centred around 14646kHz, & that it was heard throughout the evening as he tuned past the frequency.

Edward (E Smith) responded by reporting the signal at 1210z on 09 July, reporting the frequency as 14645kHz. Although Edward tuned away to listen for other stations he noted the transmission was running continuously for over an hour & that it was still active on the frequency at 0309z the following morning (10 July), although it was gone by 0909z when he next checked the frequency.

Via another source, another report was received on Saturday 26 July from Alex, Jack & Molly in Brooklyn, USA - this time the signal was reported on 4986kHz.

This signal is a complete mystery. At one time it was heard regularly on the bands, & although it changed frequencies frequently, it always seemed to gravitate back to 5500/5505kHz. However, this pattern of behaviour has not been observed for a number of years now, & it is now heard very infrequently - often with several years between reports.

The source(s) & purpose of these transmissions - assuming they are a deliberate, rather than a spurious broadcast, is unknown with little or no information having been put forward by monitors over the years. We cannot even be sure if the transmissions we are hearing now are the same as those first reported years ago.

Contributors: AnonUS, Ary, Alex, Jack & Molly, BR, CB, Daniel/AR, DoK, E Smith, GD, Gert, HFD, HRT, JkC, JPL, PoSW, RNGB, Spectre, Token
Thank you all for your logs.

Voice Stations

E06

July/August 2014

PoSW's E06 logs:

First + Third Thursdays in the Month 2030 UTC Schedule:-
17-July-14:- 5,948 kHz, calling "724", still on a frequency inside the 49 metre broadcast band, an extremely strong station on 5,950 making for difficult copy, as in the last two months.

Friday 2130 UTC Schedule Following the First + Third Thursdays in the Month:-
4-July-14:- 5,731 kHz, calling "315", DK/GC "274 274 20 20". Peaking over S9 with good audio. The 5F groups the same as used before by several E06 transmissions with assorted decode keys, starting with "37839 35787…." and ending with, "….75924 04594".

18-July-14:- 5,731 kHz, "315" and "274 274 20 20" again. S9+ with good audio.

8-Aug-14:- 5,731 kHz, call "315", DK/GC still "274 274 20 20", same 5F groups. S9 with good audio.

Second Wednesday in the Month 1920 + 2020 UTC Schedule:-
9-July-14:- 1920 UTC, 5,156 kHz, "376 376 376 00000", peaking S8.
2020 UTC, 4,592 kHz, second sending, S9. Same frequencies as in the past two months, both transmissions came with the unpleasant "rasping" distortion often noted in the past with E06.

13-Aug-14:- 1920 UTC, 5,156 kHz, and 2020 UTC, 4,592 kHz, same frequencies as in July,
"376 376 376 00000", both transmissions with good audio this time.

Sunday 1120 + 1220 UTC Schedule Following the Second Wednesday in the Month:-
Unable to find this schedule at all in May and June, managed to partly establish contact again in July:-
13-July-14:- 1120 UTC, 7,982 kHz, "376 376 376 00000", weak signal but good copy with the receiver in USB mode. Came with the "rasping" noise. Unable to find a repeat at 1220
UTC on a lower frequency.

17-Aug-14:- 1120 UTC, 7,982 kHz, "376 376 376 00000", very weak, good audio without the "rasping". Again, unable to find a second sending at 1220 UTC.

RNGB and other's logs

Sunday (following 2nd Weds) 1120z 7982kHz 1220z 7943kHz

'376' x 3 00000 Repeated for 4 mins

2nd Wednesday 1920z 5156kHz 2020z 4952kHz

'376' x 3 00000 Repeated for 4 mins

1st/3rd Thursday (repeats Friday when a message is sent) JULY 0500z 15935kHz 0600z 17430kHz

At 0520z 03/07 15935kHz halted transmission, started again with a few seemingly ungrouped numbers, halted again then started up with 659 and transmitted the remaining groups, missing 4 groups highlighted on 17430kHz 0600z. 0600z transmitted all groups successfully.
'679' 358 102 28563 80012 24696 15948 97946 73004 83594 36037 35558 44068 87838 71307 29331 35878 40807 01744 89476 76317 41077 91010 63197 20811 37814 20165 06924 82247 24149 73294 08256 09441 73231 36532 74799 00065 46648 58898 32086 58996 29887 48378 97757 38004 74547 01707 24219 17729 51966 91277 26920 17880 47969 57611 40480 46592 53411 80841 69831 24889 30213 29628 28567 47168 57570 10960 81680 63670 88026 69265 34893 95851 68095 08290 37750 20608 03128 34143 92667 84278 71091 43002 87134 32383 14981 01856 91234 66003 68512 95771 87698 60781 94819 40092 26657 09432 42814 81018 22289 73746 50919 33003 33555 56997 00000 0619z

Same message repeated on the 17th and 18th

AUGUST 0500z 14525kHz 0600z 16340kHz

07/08 and 21/08
'210' 946 107 41 192 94071 39052 19657 70720 48577 43445 87512 90616 15490 89296 43826 60496 71582 28907 66043 34497 66615 81467 77052 36708 44256 56398 54387 82015 90040 11928 16912 78293 86086 47381 79968 70877 77217 52580 96165 15269 78213 62824 24001 88987 76853 92863 91501 78535 12451 48322 47074 02383 34562 37995 14746 55936 71561 35462 95990 89411 63761 63460 85323 54556 40779 99441 91851 81160 47821 25760 83969 69281 50585 72932 99390 08139 73462 29395 87689 57600 50727 16203 77562 53204 95404 50115 85970 20659 15498 43482 11377 10745 32267 14407 78243 90568 80251 05577 24988 52106 93711 35240 52590 23959 09186 28739 76023 97275 38849 04055 00000 0522z

1st/3rd Thursday 2030z 5948kHz
JULY
'724' 013 20
14259 22676 32782 32782 76723 89409 12215 74326 64070 90235 38085 59543 12319 74238 36664 12256 18841 73311 98089 12250 0130 20 00000

AUGUST
No reports (presumed a repeat of July)

Friday (following 1st/3rd Thurs) 2130z 5731kHz
July and August
'315' 274 20
37839 35787 98273 60187 16202 95625 31691 52538 61025 22567
93296 67423 40968 16891 63781 34820 04842 60491 75924 04594
274 20 00000
24/08 '315' 274 20 37839 ... 04594 274 20 00000 2137z
Strong QRM1 QSB1 JkC FRI Repeat of E06/G06 message first sent 02/01

Non-scheduled traffic:
12207kHz 1130z 09/07
'509' 716 83 02482 39597 07194 85792 13925 68402 06807 13834 69249 06242 23265 10414 51214 08760 32192 50494 84524 43852 94304 80319 27529 16043
28065 34869 15657 32713 72923 96287 15172 87521 73973 06052 86821 25303 54686 14386 16271 65020 42321 06304 87053 87319 21094 04854 78352 62897
92090 49208 97060 48614 39726 46496 50972 90296 97928 39257 70364 16318 63605 07240 29325 59707 74519 79597 23168 49836 73647 02124 01871 63837
37302 87239 92783 91472 84562 04982 03704 82023 93064 87137 92670 76862 91517 00000 1149z Ed Smith WED

13898kHz 1505z 15/08 [759 481 52 90532 ... 87734 481 52 00000] 1518z Strong QRM1 QSB1 JkC FRI (see transcript)
17478kHz 1605z 15/08 [759 481 52 90532 ... 87734 481 52 00000] 1618z Strong QRM1 QSB1 JkC FRI

759 481 52
90532 46561 32126 95475 56986 48914 58279 18018 27690 88007
59662 44637 10003 99056 79406 01324 60502 73118 88702 98496
78625 19081 65456 68037 10575 76908 29288 82057 61903 74351
93829 58094 42242 44298 22227 80415 90581 44959 96817 92128
54564 50070 38898 37777 22217 01308 39528 61113 29563 40085
87309 87734
481 52 00000

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Thanks to: Fox, RNGB, Spectre, Malc (M8), Ed Smith, JkC, Ary

E07
July 2014

Sunday/Wednesday 1700z	**13898kHz**	**1720z 12198kHz**	**1740z 10798kHz**	
02/07	817 000			Fair
06/07	817 000			Very strong
09/07	817 000			Strong
13/07	817 000			Fair and noisy
16/07	817 000			Fair
23/07	817 000			Very strong
27/07	817 000			Strong
30/07	817 000			Strong

Monday/Wednesday 1900z	**14812kHz**	**1920z 13412kHz**	**1940z 11512kHz**	
02/07	845 000			Very weak
07/07	845 000			Weak and noisy
09/07	845 000			Strong
14/07	845 000			Weak and noisy
16/07	845 000			Very strong
21/07	845 000			Very strong
23/07	845 000			Strong
28/07	845 1 483 38 02172 ... 96760 000 000			Very strong

845 1 483 38 483 38
02172 68065 32371 87955 60546
60870 38083 66030 38231 48138
65780 71118 90691 17367 99487
89839 76518 09635 67255 34370
96678 02812 52413 27556 71220
68350 27554 55021 98158 91008
98360 33991 05985 88286 63206
63470 49929 96760 000 000.
Courtesy HJH

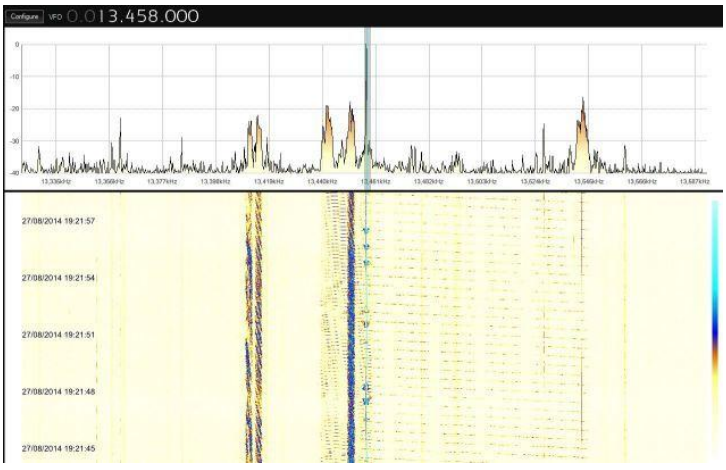
30/07	845 1 483 38 02172 … 96760 000 000	Very strong

Thursday	**2010z**	**11539kHz**	**2030z**	**10547kHz**	**2050z**	**9388kHz**
03/07	553 000					Fair to strong
10/07	553 000					Fair
17/07	553 000					Very strong
24/07	553 000					Very strong
31/07	553 000					Strong

August 2014

Sunday/Wednesday	**1700z**	**13881kHz**	**1720z**	**12181kHz**	**1740z**	**10881kHz**
03/08	818 000					Strong
10/08	818 000					Weak, noisy
13/08	818 1 950 140 5080n ……					Weak, noisy and QSB to nil
17/08	818 1 950 140 5080n ……					Weak, noisy and QSB to nil
20/08	818 000					Fair and noisy
24/08	818 000					Strong
27/08	818 000					Very strong
31/08	818 000					Very strong

Monday/Wednesday	**1900z**	**14378kHz**	**1920z**	**13458kHz**	**1940z**	**10958kHz**
04/08	349 000					Very strong
11/08	349 000					Very strong
13/08	349 000					Strong
18/08	349 000					Strong
20/08	349 000					Fair and noisy
25/08	349 000					Strong
27/08	349 000		*See image below*			Fair and noisy, QRM on 1920z



QRM on 13458kHz, very wide bandwidth with E07 transmission visible

Thursday	**2010z**	**10753kHz**	**2030z**	**9147kHz**	**2050z**	**7637kHz**

07/08	716 000	Weak
14/08	716 000	Fair and noisy
21/08	716 000	Fair and noisy

PoSW offered his E07 logs to compliment these logs, and matches them. His remark 'not much going on' seems to echo the thoughts of the persons who have contributed those above

Sunday + Wednesday Schedule, 1700 UTC Start:-
2-July-14, Wednesday:- 1700 UTC, 13,898 kHz, "817 817 817 000", S8 with reasonable audio.
1720 UTC, 12,198 kHz, second sending, much stronger, S9+.

6-July-14, Sunday:- 1700 UTC, 13,898 kHz, "817 817 817 000", S8 to S9.

16-July-14, Wednesday:- 1700 UTC, 13,898 kHz, "817 817 817 000", S8.

20-July-14, Sunday:- 1700 UTC, 13,898 kHz, "817 817 817 000".

27 July-14, Sunday:- 1700 UTC, 13,898 kHz, "817 817 817 000", not much doing in July then.

3-Aug-14, Sunday:- 1700 UTC, 13,881 kHz, "818 818 818 000", S8 with deep QSB.
1720 UTC, 12,181 kHz, second sending, stronger, peaking over S9.

13-Aug-14, Wednesday:- 1700 UTC, 13,881 kHz, "818 818 818 1", DK/GC "950 140" x 2,
S8 to S9, audio low but readable.
1720 UTC, 12,181 kHz, second sending.
1740 UTC, 10,881 kHz, third sending, peaking over S9.

Monday + Wednesday Schedule, 1900 UTC Start:-
2-July-14, Wednesday:- 1900 UTC, 14,812 kHz, "845 845 845 000", peaking over S9, audio low but readable.
1920 UTC, 13,412 kHz, second sending, over-riding "XJT".

9-July-14, Wednesday:- 1900 UTC, 14,812 kHz, "845 845 845 000".

14-July-14, Monday:- 1900 UTC, 14,812 kHz, "845 845 845 000", S9 with reasonable audio.
1920 UTC, 13,412 kHz, second sending with "XJT" on same frequency.

30-July-14, Wednesday:- 1900 UTC, 14,812 kHz, a full message for a change, "845 845 845 1", DK/GC "483 38" x 2, S9 with reasonable audio.
1920 UTC, 13,412 kHz, second sending, swamped by strong "XJT".
1940 UTC, 11,512 kHz, third sending, S9+, best of the three transmissions.

4-Aug-14, Monday:- 1900 UTC, 14,378 kHz, "349 349 349 000", S9 with reasonable audio.
1920 UTC, 13,458 kHz, second sending, slight interference from the rapid swept carrier which lives here.

11-Aug-14, Monday:- 1920 UTC, 13,458 kHz, "349 349 349 000", S9 to S9+.

Thursday Schedule, 2010 UTC Start:-
3-July-14:- 2010 UTC, 11,539 kHz, "553 553 553 000", S9+ with good audio.
2030 UTC, 10,547 kHz, second sending, S9+.

10-July-14:- 2010 UTC, 11,539 kHz, and 2030 UTC, 10,547 kHz, both S9 with good audio, "553 553 553 000".

31-July-14:- 2010 UTC, 11,539 kHz, "553 553 553 000", S9+ with good audio.
2030 UTC, 10,547 kHz, second sending, S9.

14-Aug-14:- 2010 UTC, 10,753 kHz, "716 716 716 000", difficult copy due to strong wide-band buzzing noise extending several kHz either side. A similar racket has been observed overlaying several number station transmissions recently and I had supposed this was some kind of over-the-horizon radar; but this started at around 2006 UTC while I was monitoring the E07 pre-transmission carrier and went off about a minute after E07 had ended so I wonder if someone, somewhere is experimenting with a method of jamming number station transmissions.
2030 UTC, 9,147 kHz, second sending, S9+ on a clear frequency, no jamming - or whatever- here.

E07a
July 2014

Wednesday	**2000z**	**8173kHz**	**2020z**	**7473kHz**	**2040z**	**5773kHz**	
02/07	147 000						Very strong
09/07	147 1 69996 65991 31232 … 66325 000 000			[Repeat of 25/06]			Very strong
16/07	147 000						Very strong
23/07	147 1 19097 1342 79 49682 … 32062 000 000						Very strong

147 1 19097 1342 79
49682 90044 97253 68629 34494 15735 65100 53040 12018 60720
07040 54980 75393 79692 95880 80197 34819 24790 94008 00901
68961 33707 82265 15938 71122 04555 64676 61726 91805 42869
30224 23890 26323 05570 06852 21533 72860 53742 24444 34588
15837 99350 36264 23586 97094 85581 52571 06323 31309 94619
97133 57390 59097 12710 87947 52506 19697 67844 74513 43571
34833 44383 96110 92344 51073 66735 06895 28570 27621 47520
40705 10321 08359 07160 1692147337 72075 33036 32062
000 000 *Courtesy FR, HGH, ES*

30/07 147 000
Very strong

Thursday	**0430z**	**7437kHz**	**0450z**	**8137kHz**	**0510z**	**9137kHz**	
03/07	411 000						Strong and noisy
10/07	411 1 69996 659 91 31232 … 66325 000 000				[Repeat of 26/06]		Very strong
17/07	411 000						Strong and noisy
24/07	411 1 19097 1342 79 49682 … 32062 000 000						Very strong
31/07	411 000						Very strong

Friday	**1510z**	**12213kHz**	**1520z**	**11413kHz**	**1540z**	**10113kHz**	
04/07	241 000						Fair
11/07	241 1 64845 4050 65 52572 ... 08719 000 000						Very strong

241 1 64845 4050 65
52572 38689 52674 21226 82936 48728 64732 75635 42651 23169
85378 41368 70343 41893 81662 27686 23070 45983 74606 59672
92292 28962 97527 14933 83255 48635 99719 92687 66097 67022
77515 83345 14431 09725 65459 07926 50501 81240 68794 75235
92301 52895 38880 61976 91074 61651 19499 78878 92897 55777
95082 52146 51545 23155 98766 25892 65322 25285 78699 83956
82491 94586 11983 34267 08719
000 000 *Courtesy JkC*

18/07	241 000						Weak and noisy
25/07	241 000						Fair
Saturday	**0800z**	**12173kHz**	**0820z**	**13973kHz**	**0840z**	**14873kHz**	
05/07	198 000						Strong
12/07	198 1 64845 4050 65 52572 ... 08719 000 000						Very strong
19/07	198 000						Very strong
26/07	198 000						Very strong

August 2014

Wednesday	**2000z**	**8173kHz**	**2020z**	**7473kHz**	**2040z**	**5773kHz**	
06/08	147 000						Very strong
13/08	147 000						Very strong
20/08	147 000						Very strong
27/08	147 000						Very strong

Thursday	**0430z**	**7437kHz**	**0450z**	**8137kHz**	**0510z**	**9137kHz**	
07/08	411 000						Very strong
14/08	411 000						Very strong
21/08	411 000						Very strong
28/08	411 000						Very strong

Friday	**1510z**	**12213kHz**	**1530z**	**11413kHz**	**1550z**	**10113kHz**	
01/08	241 000						Strong
08/08	241 000						Very strong
15/08	241 000						Very strong
22/08	241 000						Very strong

Saturday	**0800z**	**12177kHz**	**0820z**	**13977kHz**	**0840z**	**14877kHz**

02/08	148 000	Strong
09/08	148 000	Strong
16/08	148 000	Very strong
23/08	148 000	Very strong
30/08	148 000	Weak

PoSW's logs for this SSB station:

Saturday Schedule, 0800 UTC Start:-
5-July-14:- 0800 UTC, 12,173 kHz, "198 198 198 000", S5 SSB signal.
0820 UTC, 13,973 kHz, second sending, S7

12-July-14:- 0820 UTC, 13,973 kHz, missed first sending, and a full message this morning, "198 198 198 1 64845", DK/GC "4050 65" x 2. S6 to S7.
0840 UTC, 14,873 kHz, third sending, S5.

19-July-14:- 0800 UTC, 12,173 kHz, and 0820 UTC, 13,973 kHz, "198 198 198 000".

2-Aug-14:- 0800 UTC, 12,177 kHz, "148 148 148 000", weak signal down in the noise.
0820 UTC, 13,477 kHz, second sending, stronger, S6.

16-Aug-14:- 0800 UTC, 12,177 kHz, and 0820 UTC, 0820 UTC, 13,477 kHz, both S6 to S7, "148 148 148 000".

Wednesday Schedule, 2000 UTC Start:-
2-July-14:- 2000 UTC, 8,173 kHz, "147 147 147 000", S9+ SSB signal.
2020 UTC, 7,473 UTC, second sending, also S9+.

9-July-14:- 2000 UTC, 8,173 kHz, calling "147 147 147 1 69996" for a full message. DK/GC "659 91" x 2, S9+ signal.
2020 UTC, 7,473 kHz, second sending, S9+.
2040 UTC, 5,773 kHz, third sending, another S9+ to complete the trio.

30-July-14:- 2000 UTC, 8,173 kHz, and 2020 UTC, 7,473 kHz, both S9+, "147 147 147 000".

13-Aug-14:- 2000 UTC, 8,173 kHz, "147 147 147 000", S9+ as usual.

20-Aug-14:- 2000 UTC, 8,173 kHz, and 2020 UTC, 7,473 kHz, "147 147 147 000", both transmissions S9+.

E11 log July/Aug

4909kHz	0900z	05/07 [248/00] 09:03z QSA1	Karsten, Fox	SAT
	1445z	09/07 [287/00] 1448z Fair QRN3 QSB3	Spectre	WED
	0900z	10/07 [248/00] 0903z Fair QRN3 QSB3	Spectre	THU
	0900z	12/07 [248/00] 0903z Fair QRN3 QSB3	Spectre	SAT
	1445z	12/07 [287/00] 1448z Fair QRN3 QSB3	Spectre	SAT
	1445z	19/07 [287/00] 1448z Fair QRN3 QSB3	Spectre	SAT
	1445z	02/08 [287/00] Out 1448z Weak QRM1 QSB1	JkC	SAT
8088kHz	1730z	03/07 [416/00] 1733z Fair QRN3 QSB3	Spectre	THU
	1730z	24/07 [416/00] Out 17:33z QSA5 QRM3	Karsten, JkC	THU
	1730z	31/07 [416/00] Out 1733z S9	Malc	THU
	1730z	07/08 [416/00]	Gary H	THU
8530kHz	2000z	04/07 [576/00] 2003z Fair QRN3 QSB3	Spectre	FRI
	2000z	18/07 [576/00] 2003z Fair QRN3 QSB3	Spectre	FRI
	2000z	25/07 [576/00] Good	RNGB, Spectre	FRI
	2000z	15/08 [576/00] Out 2003z Strong QRM1 QSB1	JkC	FRI
	2000z	24/08[576/00]2003z Strong QRM1 QSB1	JkC	FRI
8565kHz	0315z	03/07 [253/00] Out 0318z	Ed Smith	SAT
	0315z	16/07 [253/00] Out 0318z	Ed Smith	WED
8725kHz	0820z	03/07 [438/00]	RNGB	THU
	0820z	07/07 [438/00]	RNGB	MON
	0820z	10/07 [438/00] Out 0823z	Ed Smith	THU
	0820z	21/07 [438/00] Very strong	Fox	MON
	0820z	24/07 [438/00] Very strong	Fox	WED
	0820z	28/07 [438/00]	RNGB	MON
	0820z	04/08 [438/00]	RNGB	MON
	0820z	07/08 [438/00]	RNGB	THU
	0820z	18/08 [438/00]	RNGB, Malc	MON

	0820z	25/08 [438/00]	RNGB	MON
9130kHz	2005z	05/07 [363/00] Normally 369 call	RNGB	SAT
	2005z	06/07 [363/00]	RNGB	SUN
	2005z	12/07 [363/00] Very strong	Fox	SAT
	2005z	13/07 [363/00] Out 2008z S3	Malc	SUN
	2005z	26/07 [363/00] Out 2008z S8	Malc	SAT
	2005z	27/07 [363/00] Out 2008z S9	Malc	SUN
	2005z	02/08 [363/00]	RNGB	SAT
	2005z	10/08 [363/00]	RNGB	SUN
	2006z	16/08 [363/00] Good	RNGB	SAT
	2005z	23/08 [363/00]	Gary H	SAT
	2005z	24/08 [363/00] Out 2008z S4	Malc	SUN
9610kHz	0745z	07/07 [262/00]	RNGB	MON
	1045z	08/07 [469/00]	RNGB	TUE
	1045z	09/07 [469/00] 1048z Fair QRN3 QSB3	Spectre	WED
	0745z	14/07 [262/00]	RNGB	MON
	1045z	15/07 [469/00]	Ary	TUE
	1045z	16/07 [469/00] Out 1048z S2	Malc	WED
	1045z	22/07 [469/00] 1048z Fair QRN3 QSB3	Spectre	TUE
	0745z	28/07 [262/00] Good	RNGB, Malc	MON
	1045z	29/07 [469/00] 1048z Fair QRN3 QSB3	Spectre	TUE
	1045z	30/07 [469/00] Out 1048z S2	Malc	WED
	0745z	11/08 [262/00]	RNGB, Malc	MON
	1045z	12/08 [469/00] Fair	RNGB	TUE
	0745z	18/08 [262/00] Out 0748z S2	Malc	MON
	0745z	25/08 [262/00]	Malc	MON
	1045z	26/08 [469/00]	RNGB	TUE
10213kHz	0930z	02/07 [270/00] 0933z Fair QRN3 QSB3	Spectre	WED
	0930z	03/07 [270/00] Out 0933z	Ed Smith	THU
	0930z	09/07 [270/00]	RNGB	WED
	0930z	10/07 [270/00] 0933z Fair QRN3 QSB3	Spectre	THU
	0930z	16/07 [270/00] Out 0933z S1	Malc	WED
	0930z	23/07 [270/00] 0933z Fair QRN3 QSB3	Spectre	WED
	0930z	24/07 [270/00] Out 0933z S2	Malc	THU
	0930z	06/08 [270/00]	RNGB	WED
	0930z	27/08 [270/00] Out 0933z S2	Malc	WED
10356kHz	1530z	03/07 [262/00] Good	RNGB	THU
	1530z	10/07 [262/00] Out 1534z Strong QRM1 QSB1	JkC	THU
	1530z	31/07 [262/00] Out 1533z Fair QRM1 QSB1	JkC	THU
10800kHz	0450z	14/07 [416/00] Out 0453z	Ed Smith	MON
	0450z	21/07 [416/00] Out 0453z	Ed Smith	MON
	0450z	28/07 [416/00] Out 0453z	Ed Smith	MON
12924kHz	0830z	04/07 [649/00] Out 0833z	Ed Smith	FRI
	0830z	07/07 [649/00]	RNGB	MON
	0830z	11/07 [649/00]	RNGB, Ed Smith	FRI
	0830z	14/07 [649/00]	RNGB	MON
	0830z	28/07 [649/00]	RNGB	MON
	0830z	01/08 [649/00] Out 0833z S9	Malc	FRI
	0830z	11/08 [649/00]	RNGB, Malc	MON
	0830z	15/08 [649/00]	RNGB, Malc	FRI
	0830z	22/08 [649/00]	RNGB	FRI
	0830z	25/08 [649/00]	RNGB	MON
13424kHz	0545z	04/07 [348/00] Fair	RNGB, Ed Smith	FRI
	0645z	08/07 [517/00] Out 0648z S5	Malc	TUE
	0545z	09/07 [348/00] Out 0548z	Ed Smith	WED
	0645z	10/07 [517/00] Out 0648z	Ed Smith	THU
	0545z	11/07 [348/00] Medium signal	Fox, Ed Smith	FRI
	0645z	15/07 [517/00]	RNGB	TUE
	0645z	17/07 [517/00] 0648z Fair QRN3 QSB3	Spectre	THU
	0545z	18/07 [348/00] 0548z Fair QRN3 QSB3	Spectre	FRI
	0900z	21/07 [534/00] Out 0903z S6	Malc	MON
	0645z	22/07 [517/00]	Ary	TUE
	0645z	24/07 [517/00]	Malc	THU
	0645z	29/07 [517/00] 0648z Fair QRN3 QSB3	Spectre	TUE
	0545z	08/08 [348/00]	Ary	FRI

0645z	26/08 [517/00]	RNGB	TUE
13427kHz 0900z	02/07 [534/00] Out 0903z S9	Malc	WED
0900z	07/07 [534/00] Out 0903z	Ed Smith	MON
0900z	09/07 [534/00]	RNGB, Malc	WED
0900z	14/07 [534/00] Out 0903z S9	Malc	MON
0900z	16/07 [534/00] Out 0903z S4	Malc	WED
0900z	21/07 [534/00] 0903z Fair QRN3 QSB3	Spectre	MON
0900z	23/07 [534/00]	Malc	WED
0900z	06/08 [534/00] 0903z S7	Malc	WED
0900z	11/08 [534/00] Out 0903z S4	Malc	MON
0900z	13/08 [534/00] Weak	RNGB	WED
0900z	18/08 [534/00] Good	RNGB, Malc	MON
13873kHz 1045z	01/07 [576/00] Out 1048z S4	Malc	TUE
1045z	15/07 [576/00] Out 1048z S9	Malc	TUE
1045z	22/07 [576/00] Out 1048z S2	Malc	TUE
1045z	29/07 [576/00] 1048z Fair QRN3 QSB3	Spectre	TUE
1045z	05/08 [576/00]	Malc	TUE
1045z	12/08 [576/00]	RNGB	TUE
13908kHz 1300z	08/07 [133/00] S3	Malc	TUE
1300z	09/07 [133/00] Out 1303z S6	Malc	WED
1300z	23/07 [133/00]	Malc	WED
1300z	29/07 [133/00] 1303z Fair QRN3 QSB3	Spectre	TUE
1300z	30/07 [133/00] 1303z Fair QRN3 QSB3	Spectre	WED
1300z	05/08 [133/00]	Malc	TUE
1300z	06/08 [133/00] Out 1303z S6	Malc	WED
1300z	26/08 [133/00] Out 1303z S8	Malc	TUE
1300z	27/08 [133/00]	Malc	WED
14753kHz 0710z	01/07 [633/00] S5	Malc	TUE
0710z	04/07 [633/00] Weak	RNGB, Ed Smith	FRI
0710z	08/07 [633/00]	RNGB	TUE
0710z	11/07 [633/00] Strong	RNGB, Ed Smith	FRI
0710z	22/07 [633/00]	Ary	TUE
0710z	25/07 [633/00]	RNGB	FRI
0710z	29/07 [633/00] 0713z Fair QRN3 QSB3	Spectre	TUE
0710z	05/08 [633/00] Weak	RNGB	TUE
0710z	12/08 [633/00] Weak	RNGB	TUE
0710z	15/08 [633/00]	RNGB	FRI
14865kHz 1705z	09/07 [392/00] Good	RNGB	WED
1705z	16/07 [392/00] Out 1708z S2	Malc	WED
1705z	19/07 [392/00] 1708z Fair QRN3 QSB3	Spectre	SAT
1705z	23/07 [392/00] Out 1708z S9	Malc	WED
1705z	26/07 [392/00]	Karsten, RNGB	SAT
1705z	30/07 [392/00] Out 1708z S5	Malc	WED
1705z	02/08 [392/00]	Malc	SAT
1705z	06/08 [392/00] Out 1708z S9+10	Malc	WED
1705z	09/08 [392/00] Out 1708z S9	Malc	SAT
1705z	23/08 [392/00] Out 1708z S9	Malc	SAT
1705z	27/08 [392/00]	Malc, RNGB	WED
14975kHz 0805z	27/08 [311/00] Strong	RNGB	WED
15632kHz 0745z	01/07 [335/00] Out 0748z S2	Malc	TUE
0745z	08/07 [335/00] Out 0748z S4	Malc	TUE
0745z	10/07 [335/00] Out 0748z S5	Malc	THU
0745z	15/07 [335/00] Very weak	RNGB, Ary	TUE
0745z	17/07 [335/00] 0748z Fair QRN3 QSB3	Spectre	THU
0745z	22/07 [335/00]	Ary	TUE
0745z	24/07 [335/00] 0748z Fair QRN3 QSB3	Spectre	THU
0745z	05/08 [335/00] Weak	RNGB	TUE
0745z	07/08 [335/00] Very weak	RNGB	THU
0745z	26/08 [335/00]	RNGB	TUE
16335kHz 1155z	02/07 [718/00] Out 1158z S3	Malc	WED
1155z	03/07 [718/00] Out 1158z	Ed Smith	THU
1540z	06/07 [228/00] Out 1543z S4	Malc	MON
1540z	13/07 [228/00] 1543z Fair QRN3 QSB3	Spectre	SUN

	1540z	14/07 [228/00] 1543z Fair QRN3 QSB3	Spectre	MON
	1155z	16/07 [718/00] Out 1158z S5	Malc	WED
	1540z	20/07 [228/00] 1543z Fair QRN3 QSB3	Spectre	SUN
	1540z	21/07 [228/00] Out 1543z Very Weak QRM1 QSB1	JkC	MON
	1155z	23/07 [718/00]	Malc	WED
	1155z	24/07 [718/00] 1158z Fair QRN3 QSB3	Spectre	THU
	1540z	28/07 [228/00] 1543z Fair QRN3 QSB3	Spectre	MON
	1155z	30/07 [718/00] 1158z Fair QRN3 QSB3	Spectre	WED
	1540z	03/08 [228/00] Out 1543z S5	Malc	SUN
	1540z	04/08 [228/00] Out 1543z S3	Malc	MON
	1540z	10/08 [228/00] Out 1543z S2	Malc	SUN
	1540z	11/08 [335/00] Out 1543z S2	Malc	MON
	1540z	18/08 [228/00] Very weak	RNGB	MON
	1540z	24/08 [228/00] Out 1543z S2	Malc	SUN
	1155z	28/08 [718/00] Good	RNGB	THU

E11a log July/Aug

8088kHz	1730z	10/07 [412/32 66391 71201 74664 97148 97831 49219 76487 58110……53721 33196]	Fox, JkC, RNGB	THU
8530kHz	2000z	11/07 [575/30 33558 47197 99218 01037 64771 99247 35315……..66346 50260] Out 2009z S7	Malc, Karsten, RNGB	FRI
8544kHz	0805z	25/07 [???/30 22624 54253 07446 68530 58087 79803 55063……98649 88685] Good	RNGB	FRI
8565kHzz	0315z	10/07 [253/37 89656 63588 97291 41261 79575 43317 93257……39791 28687] Jet QRM	RNGB, Ed Smith	THU
8725kHz	0820z	14/07 [436/38 83881 98269 01594 23808 91551 94133 15116…….47857 63617] Out 0830z	RNGB, Ed Smith	MON
	0820z	11/08 [436/35 65689 85344 66358 68949 60330 95941 72278……04457 75212]	Ary	MON
9130kHz	2005z	19/07 [364/31 51750 73771 46622 94348 09506 34206 23123…..22003 96302] Out 2014z S2	Spectre	SAT
		20/07 [364/31 51750 73771 46622 94348 09506 34206 23123…..22003 96302] Out 2014z S2	Malc, Spectre	SUN
9610kHz	1045z	01/07 [469/32 23589 03264 04435 80809 94548 53737 05278……54442 90711] Out 1154z	Spectre	TUE
	1045z	02/07 [469/32 23589 03264 04435 80809 94548 53737 05278……54442 90711] Out 1154z	Ed Smith	WED
	0745z	21/07 [269/30 46725 82223 01397 33271 43871 18064 44385……80217 81756]	Ary, Fox, Spectre	MON
	0745z	04/08 [262/32 96657 80976 18554 64639 26387 83616 17368 61828……..47522 39358]	RNGB	MON
	1045z	06/08 [466/30 75991 52233 43480 58030 98189 03578 41374……91201 55495]	Ary	TUE
10213kHz	0930z	30/07 [270/32 82484 93520 93803……..06151 24726 13479]	Ary, Malc	WED
10356kHz	1530z	14/07 [269/30 46725 82223 01397……..80217 81756]	HFD	MON
10487kHz	1710z	04/07 [953/21 22173 82964 26304 04564 27880 32307 99058……03546 60602]	Spectre	FRI
	1710z	07/07 [953/30 95902 61520 41043 53265 83336 39514 75385 …..88812 43441]	RNGB, Spectre	MON
	1710z	11/07 [953/23 56395 36765 12412 28588 64510 31642 76402 53046……53226 14933]	JkC	FRI
	1710z	14/07 [957/30 85102 07606 01815 52904 75719 38434 07502 15082……10980 37593]	JkC	MON
	1710z	18/07 [953/21 22173 82964 26304 04564 27880 32307 99058……03546 60602]	Spectre	FRI
	1710z	21/07 [953/29 06428 97480 63071 70342 79853 13495 84101 71838 6836……24846 89578]	Karsten, Malc	MON
	1710z	25/07 [953/21 01871……..85560]	Malc	FRI
	1710z	28/07 [953/25 29389 46959 75635 29381 98009…..68115 93743] Good	RNGB	MON
	1710z	04/08 [959/28 66118……..00626]	Malc	MON
	1710z	11/08 [955/21 14381 40084 86570 46947 69170 59824 03006…..66662 85917]	Malc, JkC	MON
	1710z	15/08 [957/21 48943 09462 26511 28694 41279 71432 92034……21316 08475]	JkC	FRI
	1710z	18/08 [959/26 47511 41892 38132 06461 96701 70809 43643……93431 23038] Strong	RNGB	MON
	1710z	24/08 [955/25 49096 61652 98839 15385 75543 36025 18583 60730……71223 36566]	JkC	FRI
	1710z	25/08 [955/20 80393 31724……81373 66750]	Thomas, Malc	MON
10800kHz	0450z	07/07 [412/32 66391 71201 74664 97148 97831 49219 76487……53721 33196]	Fox, Ed Smith	MON
12924kHz	0830z	21/07 [644/36 35392 36869 86916 27701 18685 76865 39168……49500 83267]	Fox, Spectre	MON
	0830z	25/07 [644/36 35392 etc] Repeat of Monday	RNGB	FRI
	0830z	04/08 [640/36 79505 95946 04294 75595…..62530 17582] see Ary's log below	RNGB	MON
	0830z	08/08 [640/36 79504 95946 04294 75595 35293 31220 67181 57798 93688 45247 93174 41997 91367 35671 79497 28108 14630 96244 40588 88990 42251 27650 61645 83336 47165 46516 61686 38472 62530 17582 Attention, rpt msg, out (ONLY 30 groups SENT)	Ary	FRI
13424kHz	0645z	01/07 [519/33 33867 09340 13936 12685 33483 62966 34498……53807 37433] Out 0654z	Ed Smith, Malc	TUE
	0645z	03/07 [519/33 33867 etc] Repeat of Tuesday	Ed Smith	THU
	0545z	25/07 [340/34 62544 36853 56073 28325 02389 56431 71591 96048……44353 02134]	Ary	FRI
	0645z	14/08 [511/30 05747 61813 25794 58006 88790 95193 71711……72376 77274] Fair	RNGB	THU
13427kHz	0900z	28/07 [537/30 74809 53209 75210 48279 24618 26243 86066 81179……06684 65738]	RNGB, Malc	MON

0900z	30/07 [537/30 74809…etc] Repeat of Monday	Malc	WED
0900z	27/08 [530/30 30181……22151]	Malc	WED
13722kHz 1400z	01/07 [981/10 16815 91185 37903 79676 44932 91355 78954 78227 33556 13787] Out 1405z	Ed Smith	TUE
1400z	05/07 [987/10 43952 25750 68070 96125 85279 17044 46134 08655 12653 89600]	Fox, Malc	SAT
1400z	08/07 [981/10 52465 52847 86686 34660 53977 15195 87010 24093 85790 73826] Out 1405z	Ed Smith	TUE
1400z	12/07 [980/10 52485 77597 11928 00444 31282 91051 20456 53418 07871 07867]	Fox	SAT
1400z	15/07 [981/10 30953 71096 36204 59478 21806 97695 58767 23921 62856 39588]	Gary H, Ary	TUE
1400z	26/07 [984/10 48639 99884 12494 18330 40837 70293 71408 57572 04078 07099]	RNGB	SAT
1400z	02/08 [981/10 48993 53845 77815 84992 46408 71660 18424 14473 51956 32103]	Gary H, JkC	SAT
1400z	05/08 [981/10 82755 26553 64011 39563 52843 96008 15458 18589 64762 23181]	Malc	TUE
1400z	19/08 [981/10 18105 75841 57747 06045 29396 86379 38181 12754 96033 03227]	Malc	TUE
1400z	26/08 [985/10 72009 48553 60358 38942 24431 39914 69832 87335 66407 54124] Fair	RNGB, Gary H	TUE
13873kHz 1045z	08/07 [575/30 33558 47197 99218 01037 64771 99247 35315…..] Weak	RNGB	TUE
1045z	26/08 [573/31 67689 89413 94274 21618 53119 98140 54009 01285…..75504 47130] Fair	RNGB, Malc	TUE
13908kHz 1300z	01/07 [138/36 63567 25565 64586 13412 76475 31676……00868 30033]	Spectre	TUE
1300z	02/07 [138/36 63567 25565 64586 13412 76475 31676……00868 30033] out 1310z S9	Malc , Ed Smith	WED
1300z	19/08 [135/30 51883……..38728]	Malc	TUE
14518kHz 1810z	01/07 [982/10 49830 34535 53561 79931 78228 72754 15889 65365 76777 42869] S7	Malc. RNGB	TUE
1810z	05/07 [986/10 40689 31352 17844 94177 19308 07522 50245 90765 44239 25916] Good	RNGB	SAT
1810z	08/07 [982/10 13319 29458 12719 38989 60459 39624 92997 64618 98422 82658] Very strong	Fox, Malc	TUE
1810z	12/07 [981/10 63252 28192 17599 61768 81435 07639 06952 39934 59163 34442] Very strong	Fox, Malc	SAT
1810z	15/07 [980/10 98909 30813 27412 12714 33942 04481 89068 08113 60343 77400]	Malc	TUE
1810z	19/07 [982/10 04354 53939 14861 95745 80763 96302 06049 04866 25409 98848] Very strong	Fox	SAT
1810z	22/07 [988/10 32893 28217 31199 03377 94928 79569 12059 09874 02590 73083]	Karsten, Malc	TUE
1810z	26/07 [985/10 77832 30512 59002 50243 37860 44173 11881 47233 84424 69167]	Karsten	SAT
1810z	02/08 [982/10 19804 35822 06956 17478 06565 43737 90091 43200 72541 76214]	Gary H, Malc	SAT
1810z	05/08 [983/10 11957 67261 99607 50377 29076 62898 46920 38322 44018 05259]	RNGB	TUE
1810z	09/08 [983/10 34266 37278 10793 86154 82771 83240 25286 85856 85606 27510]	Gary H, RNGB	SAT
1810z	12/08 [987/10 87181 65790 08652 30351 74940 98810 49564 49978 08761 88293]	Gary H	TUE
1810z	16/08 [98?/10 73531 85291 29915 46393 84384 63006 14148 49439 49287 40561]	RNGB	SAT
1810z	19/08 [982/10 02487 68829 52069 87148 81853 72294 05361 37203 42626 09117]	RNGB	TUE
1810z	23/08 [98?/10 77832 30512 59002 50243 37860 44173 11881 47233 84424 69167]	Malc	SAT
1810z	26/08 [987/10 78446 22627 35869 09137 48931 88946 88263 95433 86122 58646]	Malc	TUE
14753kHz 0710z	15/07 [631/33 96611 08140 98690 19654 67372 46196…..]	RNGB	TUE
0710z	18/07 [631/33 96611 08140 98690 19654 67372 46196 94158 48863 89947….. 12175 78465]	Fox	FRI
0710z	26/08 [630/32 46482 99678 95158 58216 25655 93947 99013……79538 98722]	RNGB	TUE
14769kHz 0530z	01/07 [980/10 52485 77597 11928 00444 31282 91051 20456 53418 07871 07867] Out 0536z	Spectre	TUE
0530z	05/07 [988/10 44157 11528 59207 19398 59662 16306 44198 78877 80262 38748] Out 0536z	Spectre	SAT
0530z	08/07 [980/10 37067 73595 43247 40021 46519 37382 64840 54864 74298 71722] Out 0536z	Spectre	TUE
0530z	12/07 [986/10 17734 47217 63114 05826 88160 10914 57107 83651 40983 05735]	RNGB	SAT
0530z	15/07 [986/10 01013 59410 45664 78727 85399 28160 05153 62332 27648 36462]	RNGB	TUE
0530z	19/07 [980/10 93473 27419 26825 08679 20295 03494 19680 55227 51591 55182] Out 0536z	Spectre	SAT
0530z	22/07 [981/10 75715 51791 05329 34288 18500 46113 92925 60341 02600 68983] Out 0536z	Spectre	TUE
0530z	26/07 [983/10 49534 95662 01341 31503 04249 79753 78444 27992 52587 56035] Out 0535z	Ed Smith	SAT
0530z	29/07 [980/10 23736 47824 77888 35217 10194 24154 12400 11213 90367 32187] Out 0535z	RNGB, Ed Smith	TUE
0530z	05/08 [980/10 97285 96245 93466 25332 18340 63962 02219 48103 06991 09612]	RNGB	TUE
0530z	09/08 [981/10 23765 23517 32624 18608 38692 10644 48901 01248 89662 94295]	RNGB	SAT
0530z	12/08 [984/10 72323 52088 85365 37793 53881 31830 65273 67988 34693 21742] Weak	RNGB	TUE
14865kHz 1705z	02/07 [395/33 51876 27705 68702 42755 61480 71454…..99344 22382] Out 1715z Fair	RNGB	WED
1705z	05/07 [395/33 51876 27705….etc] Good signal. Repeat of Wednesday	GaryH	SAT
15632kHz 0745z	19/08 [333/34 99923 71424 39420 69842 63228 52235 48354……20624 87377]	RNGB	TUE
0745z	21/08 [333/34 99923 71424 39420 69842 63228 52235 48354……20624 87377]	Ary	THU
16335kHz 1540z	07/07 [229/36 23085 88961 28327 98744 83197 30845 49812……01951 17316]	Spectre	MON
1155z	09/07 [716/37 03646 70477 06303 79527 73659 14170 48528……71588 57267] Out 1205z S5	Malc, Spectre	WED
1155z	10/07 [716/37 03646 70477 06303 79527 73659 14170 48528……71588 57267]	Ary, RNGB	THU
1155z	14/08 [710/36 86363 86938 21092 72196 62557……]	RNGB	THU
16388kHz 1110z	07/07 [956/40 55049 01574 97086 83711 74095 01029…..16121 24156] Out 1120z	RNGB, Ed Smith	MON
1110z	14/07 [952/40 74025 77951 62751 89640 30041 89298 65388…..71849 77201]	Spectre	MON
1110z	21/07 [952/40 51534 37925 87792 84327 75040 97666…..34423 01880] Out 1120z S4	Malc, Spectre	MON
1110z	25/07 [950/31 90277 90006 23107 38663 17340 47209 71875 01930…..19029 09843]	RNGB	FRI
1110z	28/07 [952/39 78733 84418 32563 94592 60261 50834 95250 35465…..57873 56835]	RNGB	MON

1110z	04/08 [954/34 42663 51765 61499 97093 33300 47956 84393 57197…..]	RNGB	MON
1110z	18/08 [952/34 02099 83383 80810 23769 26206 05664 86304……56800 14380] Fair	RNGB, Ary, Malc	MON

E17z
July2014

Thursday	**0800z**	**16780kHz**	**0810z**	**12850kHz**		
03/07	674 829 5 72663 46648 76529 01946 89891 829 5 00000					Fair to weak
10/07	674 829 5 72663 46648 76529 01946 89891 829 5 00000				0810z weak	Fair to weak
24/07	674 830 5 47665 94092 48521 63888 92060 830 5 00000					Very strong, noisy
31/07	674 830 5 47665 94092 48521 63888 92060 830 5 00000					Weak

August2014

Thursday	**0800z**	**16780kHz**	**0810z**	**12850kHz**		
07/08	674 802 5 48304 33888 2375?4 9795?2 5?0870 802 5 00000					Fair
14/08	674 802 5 48304 33888 23754 97912 10870 802 5 00000					No signal report
21/08	674 893 5 34596 91021 25046 58778 78626 893 5 00000					No signal report
28/08	674 893 5 34596 91021 25046 58778 78626 893 5 00000					Fair

G06
July2014

Monday	**0800z**	**6948kHz**	**Repeats Thursday 1300z**		
03/07	215 00000				Weak
14/07	215 00000				Fair
21/07	215 00000				Fair
28/07	215 00000				Weak

Monday	**1700z**	**5412kHz**	**1800z**	**5783kHz**	
07/07	367 00000				1800z much stronger
14/07	367 00000				Weak

Thursday	**1300z**	**5837kHz**	**Repeat of Monday 0800z**		
03/07	215 00000				

Thursday	**1830z**	**6887kHz**			
10/07	842 931 20 06132 … 04884 931 20 00000				Very strong
	842 931 20 06132 75514 79881 94217 21443 31441 81797 17512 62689 33103 48930 93432 25709 93628 48683 18809 85052 49870 63962 04884 931 20 00000 *Courtesy FR, HRT*				
24/07	842 931 20 06132 … 04884 931 20 00000				Very strong
28/07	842 931 20 06132 … 04884 931 20 00000				Very strong

Friday	**1900z**	**10185kHz**	**2000z**	**8134z**	
04/07	167 00000				
18/07	167 00000				Very strong, QRM

Friday	**1930z**	**5943kHz**			
11/07	218……..				Obivated by QRM4 for UK, readable in Germany
25/07	218 374 20 37839 35787 98273 60187 16202 95625 31691 52538 61025 22567 93296 67423 40968 18891 63781 34820 04824 60491 75924 04594 374 20 00000 *Courtesy HRT*				218

XJTQRM5

August 2014

Monday	**0800z**	**6948kHz**			
04/08	215 00000				Weak
11/08	215 00000				Weak
18/08	215 00000				Weak
Monday	**1700z**	**5412kHz**	**1800z**	**5783kHz**	
04/08	367 00000				1700z Weak, 1800z fair
11/08	367 00000				Fair
Thursday	**1830z**	**6887kHz**			
14/08	842 931 20 06132 … 04884 931 20 00000				Very strong

842 931 20
06132 75514 79681 94217 21443
31441 81797 17512 62689 33103
48930 93432 25709 93628 48683
18809 85052 49870 63962 04884
842 931 00000 *Courtesy RNGB*

Friday	**1900z**	**10185kHz**	**2000z**	**8134z**	
01/08	167 00000				Strong
01/08	167				Strong
15/08	167 00000				Strong [Up 5kHz 1900z]

Friday	**1930z**	**5943kHz**
16/08	218 377 20 37839..... los	Very strong

218 377 20
37839 35787 98273 62187 16222 95625 31691 52538 61225 22647 STOP.
Courtesy AB, HJH

PoSW's logs with some analysis:

Second + Fourth Thursdays in the Month 1830 UTC Schedule:-
10-July-14:- 6,887 kHz, call "842", DK/GC "931 931 20 20", good signal on a clear frequency.

14-Aug-14:- 6,887 kHz, call "842", DK/GC "931 931 20 20, same 5Fs as on 10-July.

Friday 1930 UTC Following Second + Fourth Thursdays in the Month:-
11-July-14:- 5,943 kHz, strong DRM signal on close frequency, call "218", difficult copy.

25-July-14:- 5,943 kHz, usual DRM interference, difficult copy, no voice heard until after 1933 UTC, call "218", DK/GC sounded like, "347 347 20 20".

15-Aug-14:- 5,943 kHz, call "218", DK/GC "347 347 20 20", coping better than in the past with the strong DRM on the HF side. However, the 5Fs message stopped half way through
on the second voicing of group no. 10, "22567". Plain carrier only, stayed with it for a few minutes before giving up! The 5Fs which were transmitted suggested the same message as has been heard in the past, not only with G06 but also in the English language with E06 transmissions, starts "37839 35787 98273.....".

First + Second Mondays in the Month 1700 + 1800 UTC Schedule:-
7-July-14:- 1700 UTC, 5,412 kHz, started well before the hour, "367 367 367 00000", very weak signal, OK in USB mode. Same frequency as in the past couple of months, missed 1800 UTC which was probably on 5,783 kHz.

14-July-14:- 1700 UTC, 5,412 kHz, "367 367 367 00000", weak signal, clear copy with receiver in USB mode.
1800 UTC, 5,783 kHz, second sending, much stronger, S8.

4-Aug-14:- 1700 UTC, 5,412 kHz, "367 367 367 00000", S4 to S5.
1800 UTC, 5,783 kHz, second sending, S9.

11-Aug-14:- 1800 UTC, 5,783 kHz, "367 367 367 00000", S9.

First + Third Fridays in the Month, 1900 + 2000 UTC Schedule:-
4-July-14:- 1900 UTC, 10,186 kHz, "167 167 167 00000", on the same frequency as, and being swamped by, an S9+ "XJT" noise-maker.
2000 UTC, 8,134 kHz, second sending, S9+.

18-July-14:- 1900 UTC, 10,186 kHz, underneath a strong "XJT" again, "167 167 167 00000".
2000 UTC, 8,134 kHz, second sending, S9 on a clear frequency.

1-Aug-14:- 1900 UTC, 10,181 kHz, "167 167 167 00000", has moved down five to be clear of the noise-maker, S9+ signal.
2000 UTC, 8,134 kHz, second sending, also S9+.

15-Aug-14:- 1900 UTC, 10,186 kHz, the rock-crusher "XJT" which spoiled the copy on this frequency in July has gone leaving a clear channel. "167 167 167 00000", S9+.
2000 UTC, 8,134 kHz, second sending, also S9+. An busy evening for the G06 lady, not only is the 15th of August the third Friday in the Month but it is also the Friday following
the second Thursday in the month which meant that the 1930 UTC on 5,943 kHz showed up, see above.

S06 log July:

Daily Mon- Fri 0400z 15721kHz

03/07 '480' 513 60 18765 35503 27665 86910 80694 89394 16664 21295 58071 96017 10890 09990 49436 92592 93979 33852
47433 59111 24761 56328 90853 72313 75866 60289 67556 14050 44327 44725 16710 76238 45068 35998 03789 29577
23257 93324 66754 48223 46440 13194 56869 07617 62393 62391 22584 97630 33637 94322 09913 18242 84554 28334
77767 49918 22036 96700 51656 15882 15598 88979 00000 0412z Ed Smith, RNGB

07/07 '480' 136 50 59498 90790 72904 85694 55505…..54241 82315 RNGB, Ed Smith
15/07 '480' 957 60 99090 26607 22684 70175 41345 81596 09111 26607……39533 30985 00000 0412z Ed Smith
16/07 '480' 163 50 16959 88416 01801 54697 01510 34546 56255……46949 23108 00000 0410z Ed Smith
17/07 '480' 729 55 21603 34187 20719 61216 76731 13709 91914…….84876 38231 00000 Ed Smith
18/07 '480' 535 60 26529 17276 07406 95605 27034 75163 39736 52065……93890 11228 00000 0412z Ed Smith
21/07 '480' 261 50 81453 64904 16904 06518 07080 19450 89563 08828……57303 91177 00000 0411z Ed Smith
22/07 '480' 975 60 40325 73197 …… 00099 05574 30202 00000 0412z Ed Smith
23/07 '480' 326 55 22709 10281 00917 20322 85345 59542 48053 54825 37792 50710 93546 63057 32678 43279 94651 97676 40209 97928 76993 75453
62471 91273 29577 46084 46264 23893 63185 77904 80412 50623 80583 02684 88480 87896 31981 86686 52842 77826 54190 20194
31027 13712 16904 42666 50303 56659 24550 45744 91399 97998 47140 21262 97349 47198 78566 32655 00000 Ary, Ed Smith

24/07 '480' 179 60 97799 09123 90331 84797 51497 43200 49506 28813 33290 65719 54769 42973 65858 50208 49418 97052 39566 30887 91537 91417
80914 38671 02775 44632 09369 79074 26587 28446 31010 94184 06814 04818 42428 75921 23084 44688 43319 22738 42302 33172
81203 56974 74960 90864 76711 45044 44414 65951 02879 87639 06723 76805 16871 72135 81464 09757 67602 04403 79503 01730
00000 0412z Ed Smith

29/07 '480' 613 50 50756 41470 37482 10524 69586 03808 42714 67598……48739 99758 00000 0412z Ed Smith

2nd/4th Monday 1815z 15850kHz 1915z 13505kHz

14/07 '376' 00000
28/07 '376' 00000

Mondays/Thursdays 1900z 7982kHz or 1905z 6984kHz (frequencies may vary a few kHz)

03/07 1905z '349' 00000 (using 6979kHz)
07/07 1900z '349' 00000
10/07 1900z '349' 00000
14/07 1905z '349' 00000
17/07 1905z '349' 00000
21/07 1905z '349' 00000
24/07 1900z '349' 00000
28/07 1905z '349' 00000
31/07 1905z '349' 00000 (using 6979kHz)

Saturdays 1st/2nd/3rd and 4th 1600z 7947kHz or 1605z 6873kHz
05/07 1605z '194' 00000 (used 6883kHz)
12/07 1600z '194' 00000
26/07 1600z '194' 00000

Saturdays 1st and 3rd 1900z 7432kHz 2000z 6792kHz
05/07 '362' 00000

Saturdays 1st and 3rd 1900z 9164kHz 2000z 7768kHz
05/07 '621' 00000

Saturdays 1st/2nd/3rd and 4th 1930z 7318kHz or 1935z 5932kHz (frequencies can vary +/- 15kHz)
05/07 1935z '396' 00000 (used 5922kHz)
12/07 1930z '396' 00000
26/07 1930z '396' 00000

S06c
30/07 12208kHz 1045z '11190' x 4 mins Malc

S06s July report:
ID 438 went on "summer vacation" starting Tuesday the 8th and was heard sending nulls from 0600z on 10620/11490/12360/123840/14650 and finally 15855kHz. All at 10 minute intervals. Resumed normal schedule on the 22nd with a repeat of the message sent at the beginning of the month.
ID 624 was found sending nulls on 7915kHz at 0940z on WEDS 16th, and not heard since, so may have moved?

S06s July log:

Mondays

7th/14th	0830/40	8221/9353	'371' 245 6 38163 33231 31323 32680 85418 31896
21st/28th			'371' 842 5 19163 33279 44878 41528 87887
7th/14th	0900/10	16380/14835	'872' 461 5 26634 14690 95590 60386 03009
21st/28th			'872' 439 5 80144 33956 43871 43498 34654
7th/14th	1200/10	10230/12165	'831' 249 5 31405 46464 33690 39783 32347
21st/28th			'831' 207 5 34140 78386 91497 82963 24162

Tuesdays

1st/22nd	0600/10	16735/15230	'438' 950 6 16014 42676 55730 44736 95879 12345
1st/8th	0700/15	5430/6780	'374' 216 5 38281 10241 58010 29875 72431
15th/22nd			'374' 281 5 72538 01983 57574 38291 98954
1st/8th	0730/40	7365/11655	'427' 810 5 61028 69130 27970 53514 58906
15th/22nd			'427' 951 6 43169 42483 18958 37032 30440 93442
1st/8th	0800/10	14373/12935	'352' 479 6 58906 31477 91127 49572 96314 52976
15th/22nd			'352' 418 6 54928 33165 37858 39538 83873 44333
1st/8th	1000/10	6440/5660	'893' No reports
15th/22nd			'893' 275 6 50111 392?? 8583? 320?2 33441 98237 ?
1st/8th	1100/10	6810/7560	'754' 921 6 35794 82605 38115 38949 36554 31370
15th/22nd			'754' No reports
1st/8th	1500/10	6666/7744	'537' 809 6 30307 49174 32126 83072 81333 83509
15th/22nd			'537' 829 6 37684 46080 34015 41905 55088 38421

Wednesday

2nd/9th	0730/40	12110/14977	'745' 892 6 61028 69130 27970 53514 58906 31477
16th/23rd			'745' 831 6 88569 89617 25757 77159 95225 76543
2nd/9th	0820/30	6755/5835	'471' 502 6 04868 44645 54958 80316 16556 48613
16th/23rd			'471' No reports
2nd/9th	1000/10	14580/16020	'729' 581 6 47304 33888 23754 97912 10870 88866
16th/23rd			'729' 814 5 20534 11160 43494 37538 16070
2nd/9th	1230/40	7545/8220	'967' 284 5 67431 906….??
16th/23rd			

Thursdays

3rd/10th (E17z)	0800/10	16780/12850	'674' 829 5 72663 46648 76529 01946 89891
17th/24th			'674' 830 5 47665 94092 48521 63888 92060
3rd/10th	0900/10	12952/13565	'167' 498 5 81726 36450 99981 30906 45638
17th/24th			'167' 802 5 52401 63919 92699 14600 74248
3rd/10th	0900/10	5320/4845	'624' No reports
17th/24th			'624' No reports
3rd/10th	0930/40	9255/10325	'314' 527 6 82395 58825 82037 89622 70831 89090
17th/24th			'314' 987 5 5234? ????? 42432 56075 15521 ?
3rd/10th	0950/100	11165/12530	'635' 281 7 20529 80749 03752 76367 84777 55977 48638
17th/24th			'635' 920 7 42167 35797 33873 39235 40385 32934 80906
5th/12th	1200/10	13145/14535	'425' 967 8 96320 36793 53038 76342 15009 34140 78386 91497
19th/26th			'425' 983 6 03009 81413 94043 83531 94063 63156

Fridays

6th/13th	0600/10	7845/9125	'196' 432 5 29551 97532 64325 59747 56214
20th/27th			'196' 420 5 81406 36889 47688 33374 45836
6th/13th	0600/10	11742/12355	'934' 268 5 31084 92096 58781 62106 27361
20th/27th			'934' 207 5 30173 30823 86833 49338 44530
6th/13th	0800/10	7650/6125	'278' 941 5 44024 313-3 -5876 ????? 33024
20th/27th			'278' 490 5 …. Too weak to copy
6th/13th	0930/40	10290/9655	'516' 930 7 36113 31107 37806 37137 31405 46464 33690
20th/27th			'516' 208 7 46062 68672 97478 39685 39485 96632 52537

Saturday

7th	1200/10	12460/10250	'254' 817 6 32557 35995 44937 94502 33459 41812

Sundays

1st/8th	0630/40	14875/16320	'524' 897 6 37655 30146 34476 91326 41043 36472
15th/22nd			'524' 896 7 88620 58069 61732 74537 57440 10597 23531

Thanks to RNGB, Malc (M8), Fox, Ary, Karsten, JkC

S06 log August:

Daily Mon- Fri 0400z 15721kHz
No reports

2nd/4th Monday 1815z 15805kHz 1915z 13380kHz

11/08 & 25/08 '260' 00000 RNGB, Malc

Mondays/Thursdays 1900z 7982kHz or 1905z 6984kHz (frequencies may vary a few kHz)

1905z	07/08	'349' 00000	1909z S9+20	Malc	THU (used 6977kHz)
1905z	11/08	'349' 00000		RNGB	MON (used 6974kHz)
1905z	18/08	'349' 00000		Malc	MON (used 6974kHz)
1900z	21/08	'349' 00000		RNGB	THU
1905z	25/08	'349' 00000		Malc	MON
1905z	28/08	'349' 00000		RNGB	THU

Saturdays 1st/2nd/3rd and 4th 1600z 7947kHz or 1605z 6873kHz

1600z	02/08	'194' 00000	1604z Strong QRM 1 QSB 1	JkC	
1605z	09/08	'194' 00000		RNGB	
1605z	16/08	'194' 00000	Used 6863kHz	RNGB	
1600z	23/08	'194' 00000		Malc	

Saturdays 1st and 3rd 1900z 7432kHz 2000z 6792kHz

16/08 '362' 00000 (used 7446kHz at 1900z)

Saturdays 1st and 3rd 1900z 9164kHz 2000z 7768kHz

16/08 '621' 00000

Saturdays 1st/2nd/3rd and 4th 1930z 7318kHz or 1935z 5932kHz (frequencies can vary +/- 15kHz)

1930z	09/08	'396' 00000	RNGB	
1935z	16/08	'396' 00000	RNGB	
1935z	23/08	'396' 00000	Malc	

S06c
No reports

S06s August report:
Many new messages this month. No news from ID 624 but if still using last known frequencies would be extremely difficult to hear during the summer months.

S06s August log:

Mondays			
4th/11th	0830/40	8221/9353	'371' 469 5 43698 42844 70362 89526 28904
18th/25th			'371' 925 6 20534 11160 43494 37638 16070 48834
4th/11th	0900/10	16380/14835	'872' 469 5 40837 80900 28230 25747 59187
18th/25th			'872' 960 5 88146 57856 98835 46186 16945
4th/11th	1200/10	10230/12165	'831' 469 5 34596 91021 25046 -8778 78626
18th/25th			'831' 960 5 33796 13577 74526 46647 79302
Tuesdays			
5th/12th	0600/10	16735/15230	'438' 527 6 20483 47292 38314 63370 76184 79445
19th/26th			'438' 925 6 88280 84116 53718 78927 34694 08531
5th/12th	0700/15	5430/6780	'374' 208 5 42465 46683 90715 42738 80515
19th/26th			'374' 286 5 88620 58069 61732 74537 57440
5th/12th	0730/40	7365/11655	'427' 806 5 61028 69130 27970 53514 58903
19th/26th			'427' 813 5 11171 64385 82707 06123 22536
5th/12th	0800/10	14373/12935	'352' 801 6 41326 46926 71387 78321 22911 49923
19th/26th			'352' 471 6 20534 11160 43494 37638 16070 48834
5th/12th	1000/10	6440/5660	'893' 402 5 8226? 1132????? 43584 33291 (very weak)
19th/26th			'893' Too weak to copy
5th/12th	1100/10	6810/7560	'754' 801 6 61028 69130 27970 53514 58906 37477
19th/26th			'754' 923 6 57914 99227 16046 11393 00359 2-551
5th/12th	1500/10	6666/7744	'537' 402 6 44408 16402 77789 22837 26332 16014
19th/26th			'537' 489 6 57914 99227 16046 11393 00359 67541

Wednesday

6th/13th	0730/40	12110/14977	'745' 813 6 85897 92933 56947 34917 65103 51232
20th/27th			'745' 928 6 22517 60642 86967 46078 86576 53966
6th/13th	0820/30	9485/11085	'471' 962 5 31084 29296 58781 62106 27361
20th/27th			'471' 932 5 31477 91127 49572 96314 52976
6th/13th	1000/10	14580/16020	'729' 854 6 15676 70599 86591 85898 92933 13245
20th/27th			'729' 541 6 43698 42844 70362 89526 28904 64547
6th/13th	1230/40	7545/8220	'967' 201 5 34595 63586 56464 22477 93231
16th/23rd			

Thursdays

7th/14th (E17z)	0800/10	16780/12850	'674' 802 5 48304 33888 23754 97912 10870
21st/28th			'674' 893 5 34596 91021 25046 58778 78626
7th/14th	0900/10	12952/13565	'167' 809 5 41326 46926 71387 87231 22911
21st/28th			'167' 839 5 96435 65111 57793 98192 59983
7th/14th	0900/10	5320/4845	'624' No reports
21st/28th			'624' No reports (may have moved?)
7th/14th	0930/40	9255/10325	'314' 896 5 22517 60642 86967 46078 86576
21st/28th			'314' 258 6 22517 60642 86967 46178 24387 58906
7th/14th	0950/1000	11165/12530	'635' 894 7 20529 80749 03752 76376 84777 72068 93554
21st/28th			'635' 981 7 40837 80800 28230 25747 59187 35760 47406
7th/14th	1200/10	13145/14535	'425' 976 8 61028 69130 27970 53514 58906 31477 91127 49572
21st/28th			'425' 901 6 82232 11326 26585 43584 33291 83913

Fridays

1st/8th	0600/10	7845/9125	'196' 847 5 10297 56743 89231 67431 90807
15th/22nd			'196' 823 5 29903 89159 32603 58491 43549
1st/8th	0600/10	11742/12355	'934' 271 5 81726 46352 89760 12098 37378
15th/22nd			'934' 820 5 49032 82871 88163 30231 84662
1st/8th	0800/10	7650/6125	'278' 903 5 33365 47183 81326 36388 94323
15th/22nd			'278' 931 5 44801 99925 44326 92970 83889
1st/8th	0930/40	10290/9655	'516' 902 7 80144 33956 43841 43498 34654 89083 88962
15th/22nd			'516' 890 7 52401 63919 92699 14600 74248 48754 33796

Saturday

2nd	1200/10	12460/10250	'254' No reports

Sundays

3rd/10th	0630/40	16320/14875	'524' 817 6 38648 71142 47778 57185 94933 27564
17th/24th			'524' 863 7 88620 58069 61732 74537 57440 10597 23521

Thanks to RNGB, Malc (M8), Fox, Ary, Karsten, JkC

S11a log July/Aug

4870kHz	1955z	02/07 [370/00] Konetz 1958z S8	Malc	WED
	1955z	04/07 [370/00] 1958z Weak QRN3 QSB3	Spectre	FRI
	1955z	09/07 [370/00] Strong	RNGB, Malc	WED
	1955z	11/07 [370/00]	RNGB	FRI
	1955z	16/07 [379/35 19045 42487 30104 75911 05427 29975….. 23122 11787] 2006z Fair	Spectre	WED
	1955z	23/07 [370/00]	Malc, Gary H	WED
	1955z	25/07 [370/00] Strong	RNGB	FRI
	1955z	30/07 [370/00] Konetz 1958z S9+10	Malc	WED
	1955z	06/08 [370/00] Konetz 1958z S9	Malc	WED
	1955z	15/08 [370/00]	Ary	FRI
	1955z	24/08 [379/34 68623 51846 78481 69283 25480 14150 37393……54485 17414] Конец	JkC	FRI
	1955z	27/08 [370/00]	Malc	WED
5815kHz	1020z	02/07 [221/00] 1023z Weak QRN3 QSB3	Spectre	WED
	1020z	05/07 [221/00] Konetz 1003z QSA2	Karsten, Fox	SAT
	1020z	16/07 [221/00]	Malc	WED
	1020z	19/07 [221/00] 1023z Fair QRN3 QSB3	Spectre	SAT
	1020z	26/07 [221/00] 1023z Fair QRN3 QSB3	Spectre	SAT
8530kHz	0915z	01/07 [484/00] 0918z Fair QRN3 QSB3	Spectre	TUE
	0915z	04/07 [484/00] Konetz 0918z	Ed Smith	FRI
	0915z	08/07 [484/33 65267 05618 99659 88304…..] Weak	RNGB	TUE
	0915z	11/07 [484/33 65267 05618 99659 88304 47439 54264 22327 81974 17855…..52505 61964]	Ary, RNGB	FRI
	0915z	15/07 [484/00]	Ary	TUE
	0915z	22/07 [484/00] 0918z Fair QRN3 QSB3	Spectre	TUE
	0915z	25/07 [484/00] 0918z Fair QRN3 QSB3	Spectre	FRI
	0915z	29/07 [484/00] 0918z Fair QRN3 QSB3	Spectre	TUE

0915z	08/08 [485/32 15137 45502 93692 27320 83445 59812 00450……70562 86606]	RNGB	FRI
0915z	19/08 [484/00]	RNGB	TUE
0915z	26/08 [484/00]	RNGB	TUE
11581kHz 1020z	01/07 [426/00] 1023z Fair QRN3 QSB3	Spectre	TUE
1020z	04/07 [426/00] Konetz 1023z	Ed Smith	FRI
1020z	08/07 [426/00]	Ed Smith	TUE
1020z	11/07 [426/00] Konetz 1023z	Ed Smith	FRI
1020z	15/07 [426/00]	Ed Smith	TUE
1020z	18/07 [426/00] 1023z Fair QRN3 QSB3	Spectre	FRI
1020z	22/07 [427/30 43645 71558 01170 56301 40549 35013 91504 22413……37149 60056]	Spectre	TUE
1020z	25/07 [427/30 43645 71558 01170 56301 40549 35013 91504 22413……37149 60056]	Ary	FRI
1020z	29/07 [426/00]	Ed Smith	TUE
1020z	05/08 [426/00]	Malc	TUE
1020z	12/08 [424/36 87496 61371 81259 31516 16875 57042 36560……38119 63734] Konetz 1131z	RNGB	TUE
1020z	19/08 [426/00] Konetz 1023z S5	Malc	TUE
1020z	26/08 [426/00]	Malc	TUE
16530kHz 1015z	10/07 [475/00] S5	Malc	THU
1015z	14/07 [475/00] Konetz 1018z S5	Malc	MON
1015z	21/07 [475/00] S5	Malc	MON
1015z	24/07 [475/00]	Malc	THU
1015z	28/07 [479/38……..] 1026z S5	Malc	MON
1015z	31/07 [479/38 Vnimanie 40964 01285 51057 … 00750 14144 18961] Vnimanie, rpt msg, konec	Ary	THU
1015z	04/08 [475/00] S5	Malc	MON
1015z	07/08 [475/00]	Malc	THU
1015z	14/08 [475/00] Weak	RNGB	THU
1015z	18/08 [475/00]	Ary	MON
18511kHz 0715z	02/07 [382/00]	RNGB	WED
0715z	07/07 [382/00]	RNGB	MON
0715z	14/07 [389/33 67837 60992 05945 90309 10880 94326 74786…..65039 16790]	RNGB	MON
0715z	21/07 [382/00]	Ary	MON
0715z	28/07 [382/00]	RNGB	MON
0715z	06/08 [382/00] Very weak	RNGB	WED
0715z	18/08 [382/00] Weak	RNGB	MON
0715z	27/08 [382/00] Good	RNGB	WED

V02a

9040kHz 0120z	30/08 Found in progress, ended at 0143z with 3X Final.	Westt1us	SAT
9040kHz 0200z	30/08 SS Numbers and 3X Attencion!!! then Numbers and the Transmission ends appruptly after 5 Mins.] via Global Tuners Remote Tucson	ElmarE2Kde	SAT

V07
July2014

Sunday	**0700z 13582kHz**	**0720z 12182kHz**	**0740z 10282kHz**
06/07	512 512 512 000	[Hum on both sendings]	Weak
13/07	512 1 534 74 98314 … 14378 000 000	[Hum on all sendings]	Strong

512 512 512 1
534 74
98314 37275 78148 19123 83234
34345 42155 29271 07719 51031
01547 15995 55313 98901 59730
40205 87575 53081 94352 07745
01723 78038 20982 11371 32540
21221 93891 43774 13243 24828
34722 49384 58959 07474 11597
17849 73491 12821 22359 32075
39583 59975 53779 37498 77732
19495 91915 29387 31710 00310
77083 43327 11195 13321 79803
42224 19354 97333 74857 80181
97330 34083 79027 30189 73280
89954 57139 33394 59079 42524
44745 38324 80101 14378
000 000 *Courtesy DanAr*

20/07	512 000	Weak with Hum, 0700z NRH
27/07	512 000	Weak with Hum

August2014

Sunday	**0500z 14823kHz**	**0520z 13423kHz**	**0540z 11523kHz**
03/08	845 845 845 000		No strengths stated
10/08	845 845 845 000		Weak
17/08	845 323 77 92024 ... 12243 000 000		Weak, with noise and hum

845 845 845 1
323 77
92064 90836 61109 90348 07409
92495 81449 68655 85141 71926
46672 42141 97851 71224 39539
35419 57639 52766 58550 73589
00599 36230 41085 94040 42071
96140 90502 67201 07703 86489
62628 36490 27572 31751 29552
53714 10622 94170 50358 65938
04956 99930 68339 17713 27601
13434 63598 47120 31387 25536
78553 03867 18900 90520 87077
48950 55955 52189 44585 15463
61046 91092 83335 06234 98555
88389 49029 67243 08527 70853
49823 14712 36656 05105 23314
94915 12243
000 000 *Courtesy DanAr, Token*

24/08	845 000	Fair with Hum
31/08	845 000	Weak

V21

We have been unable to keep up with the sheer volume of transmissions from V21 lately. A lot of the ones on 5637kHz will last over an hour therefore only a sample of them are included below.

The 6529kHz transmissions have been consistent over the last few years but even they threw up a couple of surprises during the past two months. On July 23rd two transmissions occurred on the same frequency at the same time with the numbers intermingling whoever the Babbler is, he is clearly at more than one location. Then on August 17th he came up weak at first but once he became properly audible he counted above 100 and in fact, he counted as high as 300, he has never been heard to go above 100 before.

The 5637kHz transmissions have been a mixture of counting and strings of numbers. The timing of the transmissions appears to happen randomly now and he has been heard anywhere from 0000z to 1300z. There are often quite long pauses between the groups of numbers. The numbers themselves often come too fast to be easily copied.

Logs below.

V21 6529kHz 1300z 7/7 [Too weak to copy] MON
V21 6529kHz 1300z 8/7 [40, 30, 20, ??, 30, 20, 50, 50, too weak to copy for 4 minutes, 40, 50, 50, ??, 40, 20, ??, 10, 50, 40 END] TX lasted 14 minutes TUE
V21 6529kHz 1300z 9/7 [40, 20, 10, 50, 20, 50, 50, 10, 50, 20, 30, 50, 40, ??, becomes too weak to copy] WED
V21 6529kHz 1300z 10/7
V21 6529kHz 1300z 18/7 [40 (then spanish chat), 30 END] FRI
V21 6529kHz 1300z 19/7 [50, 50, 50, 50, 50, 50, 50, 50, Becomes too weak to copy] SAT
V21 5637kHz 1200z 20/7 [49, 49 (16 26), 46 (22), 42 (22), 49 (22 36 42), 49 (26 33 42), 36 (16 26), 32 (22), 49 (39), 49, 49, 43, 46 (22), 49, 49, then 00 21 00 21 60 30 329 61 00 27 - 00 22 00 22 161 163 21 00 48 4900 6100 58 - 00 23 00 23 160 461 11 00 69 2700 21 59 21 30 37 59 2200 6100 59. coninues for ~ 30 minutes then returns briefly to counting before starting more number groups. TX ends after 1 hour.] SUN
V21 6529kHz 1300z 20/7 [50, 30, 50, 50, 50, 50, 50, 60, 40, 20, next count to 20 but then too weak to copy.] SUN
V21 5637kHz 1200z 21/7 [50, 60, 20, 40, 30 END] MON
V21 5637kHz 1200z 22/7 [40, 30, 30, 10, 30, 40 END] TUE
V21 5637kHz 1200z 23/7 [49 (16 30 39) 2 restart at 17, 49, 20 restart at 28 counting to 32, 49 (16 26 36 46), 33, 35 (26), 27 (16 22) END]
V21 5637kHz 1200z 23/7 [49 (16 30 39) 2 restart at 17, 49, 20 restart at 28 counting to 32, 49 (16 26 36 46), 33, 35 (26), 27 (16 22) END] WED
V21 6529kHz 1300z 23/7 [Transmission by two "Babblers" at once, unable to copy as it was hard to discern one from the other] WED
V21 6529kHz 1300z 24/7 [30, 10 END] THU
V21 6529kHz 1300z 28/7 [40, 40, 20, 10, 10, 10, 20, 20, 40, 20, 30 END] MON
V21 6529kHz 1300z 29/7 [50, 60, 60, 40, 40, 50, 40, 30 END] TUE
V21 6529kHz 1300z 31/7 [40, 50, 50, 50, 50, 50, 30, 30, 40, 20, 10, 20, ??, 50, 10, 20, 40, 10, 50, 40 END] THU
V21 6529kHz 1430z 31/7 [50, 40, 30 END] THU
V21 6529kHz 1300z 1/8 [40, 30, 30, 40, 40, 30, 20, 30 END] FRI
V21 6529kHz 1300z 3/8 [Present but too weak to copy] SUN
V21 6529kHz 1300z 4/8 [starts too weak to copy then, 30, 20, 30, 10, 30, 10, 20, 20, 30, 20, 20, 10, 30, 20, 10 END] MON
V21 6529kHz 1300z 5/8 [40, 50, 60, 60, 60, 30, 60, 30 END] TUE
V21 6529kHz 1300z 6/8 [Present but too weak to copy] WED
V21 6529kHz 1300z 7/8 [too weak to copy for 2 minutes, 20, 60, 50, 50, 30, 60, 40, ??, 20 then too weak to copy] THU
V21 6529kHz 1300z 8/8 [40, 30, 70, 60, 60, 60, 40, ??, END] FRI
V21 6529kHz 1300z 9/8 [40, 30 END] SAT
V21 5637kHz 0820z 12/8 [22 (14) END] TUE
V21 5637kHz 0900z 12/8 [28 28 80 32 419 98 53.....27 27 261 100 67 67 27 27 27 29 29 831.....38 32 25 28 28 232 266 98 5 22 END] 2 minute transmission TUE
V21 6529kHz 1300z 12/8 [40, 30, 20, 10, 30, 10 END] TUE
V21 5637kHz 0800z 13/8 [22 (16), 20, (16), 2, 22 (16), 25 (16), 10 (5), 23 (16 19), 22 (16), 22, 12, 22 (12 16), 16 (7 13), 23 (16), 19 END]
V21 5637kHz 1100z 13/8 [29 75 3422 59..... 29 29 1366 01.....29 3013 237 00.....29 7039 03.....29 1329 239 03..... .00 30 00 30 1799 11 00 00 28 30 30 1700 1397 08.....30 30 1713 288 49 10 29 29 1613 21 10 00 31 00 31 693 296 61 00 26 31 1393 296 10 00 37 00 37 256 11 32 3762.....Continues for approximately 1 hour ending with 21 1730 23 06 39] WED
V21 6529kHz 1300z 13/8 [50, ??, 50, 50, 40, 50, 60, 60, 40, 50, 60, becomes too weak to copy for 5 minutes, 50, 60, 50 END] WED

V21 6529kHz 1300z 14/8 [60, 40, 70, 60, 50, 50, continues for several more minutes but too weak to copy] THU
V21 6529kHz 1255z 17/8 [found very weak but in progress at 1255z counts become readable from 150 to 300 pausing every 10] Have never heard him count above 100 before!] SUN
V21 6529kHz 1300z 18/8 [90, 60, 50, 60, 40, continued for approximately 25 more minutes with one count to 100. Very weak] MON
V21 5637kHz 0400z 19/8 [36 299 130.....36 640.....36 649 162 16.....00 37 00 37 253 13 23 11 00 33 22 37 205 1326 32 36 00 36.....00 37 0037 895 427 11 00 23 26 33 32 38 295 427 22.....38 295 421 23 37 265 168 24 continues for 45 minutes ending with 2195 37 27 21 21 2 9 91 2845 467 57 2379] TUE
V21 5637kHz 0800z 20/8 [8, 48, 19, 23, 49, 43, 49, 49, 22, 49, 46, 49, 39, 46, 49 (1 minute pause between 46 and 47), 49, 49, 49, 32, 49, 46, 46, 42, 49, 46, 46, 21 END] TX lasted 20 minutes WED
V21 6529kHz 1300z 20/8 [50, 50, 90, 80 END] WED
V21 5637kHz 1230z 20/8
V21 6529kHz 1300z 21/8 [30, 10, 10, 30, 30, 20, 20, 30, 30, 10, 30, 10, 30, 10, 20, 20, 30 END] THU
V21 5637kHz 1130z 22/8 [49, 44, 32 END]
V21 5637kHz 1140z 22/8 [49, 42, 5, 49, 49, 46, 42, 16, 52, 22, too weak to copy for 2 minutes, 36, 49, 49, 49, 16, 16, 22, 43, 23, 49, 10, 22, 26, 23 END]
V21 5637kHz 1155z 22/8 [00 25 00 25 27 27 ????....00 25 00 25 30 0 18 00 27 ????.....27 27 22 21 60 60 12...00 25 ?? 49 5 491 03.....21 21 297 117 61 67 21 21 96 361 2997 60 64 0 ??.....continues for 30 minutes ending with 00 00 34 00 34 117 121 11 00 00 34 117 121 17 21 21 125 11 00 27 00 00
V21 6529kHz 1300z 22/8 [60, 60, 50, 60, 90, ??, 100, 40, 50, 60, 20, 60, too weak for 3 minutes, 70, 70, 70, 50, 10, 60, 60 END] TX lasted 22 minutes FRI
V21 6529kHz 1300z 23/8 [30, 30, 20, 20, 40, 10, 30, 30, 20, ??, 20, 20, 30, 10, 30, 40, 10, 10, 20, 10, 40, 20, 30, 30, 30, 3 0, 20, 30, 40, 20, 20, 30, 20, 20, 10, 20, 20, 30, 30, 30, 20, 30, 20, 10 END] TX lasted 25 minutes. SAT
V21 6529kHz 1300z 24/8 [Present but too weak to copy] SUN
V21 5637kHz 2355z 26/8 [49, 10, 49, 42, 49, 22, 46, 49, 36, new voice, 11 00 21 00 21 00 200 11 49....60....11 00 21 00 21 2 25 499 61 00 00 21 00 21 205 495 11 00 20 00 .....20 20 00 00 20 00 29 065 154 11 00 20 00 00 22 11 00 24 11 00 20 00 27 00 26 226.....325 11 00 20 00 27 192 225.....45 491 462 27 00 21... 20 00 20 00 24 07 446 62 11 00 24 1 00 24 227....continues with similar for 40 minutes ending with 30 30 11 00 42 444 38] TUE

V30/M97 [April 2014]

From T! in entirety:

Below are my loggings of Vietnamese stations V30 an M97 for the period of April 16 to July 26, 2014. My last report on these stations went through April 15, something most Americans will recognize as Tax Day ;).

In this included time period I have recorded and looked at every day with the exception of June 30, 2014, for both V30 and M97, and May 26, 2014, for M97 only. Because of my normal conditions and good in-band indicators of propagation, I believe that with the exception of those days 2 days for M97 this is a complete record of all M97 transmissions made in the time period. Because of time and propagation indicators I am slightly less sure that this is a complete record of V30 transmissions, however I think it is probably a complete record, with the exception of June 30, 2014.

Of note, while V30 still generally transmits only on days when there has been a preceding M97 transmission, the station has shown an increased tendency to transmit on days when no M97 has been present. I have included a link to a chart to show relative transmission days.

Chart comparing V30 and M97 transmission days:

http://www.pbase.com/token/image/156747916/original.jpg

V30 and M97 transmission days, April 16 to July 26, 2014

Date	V30	M97
24 July, 2014	X	X
23 July, 2014	X	X
22 July, 2014	X	No TX
16 July, 2014	X	X
15 July, 2014	X	X
14 July, 2014	X	X
03 July, 2014	X	X
02 July, 2014	X	X
01 July, 2014	X	X
05 June, 2014	X	No TX
04 June, 2014	X	No TX
03 June, 2014	X	No TX
13 May, 2014	X	X
12 May, 2014	X	X
09 May, 2014	X	X
08 May, 2014	X	X
05 May, 2014	No TX	X
18 April, 2014	X	X
17 April, 2014	X	X
16 April, 2014	X	X

While M97 has not introduced any new messages in this time period (it is still sending the SD 85, SN 58 it introduced on August 9, 2013), V30 has had several different messages in the reported period.

V30 message headers during the reported period:

SD 07611, SN 45 (note I erroneously reported this as 03611 in the past)

SD 77, SN 48 (although the transmitted SN is 48, message is really 178 grps long)

Unknown (signal too weak to make out details, but message length changed)

SD 04211, SN 90

Recordings are available for any day reported.

M97 logs, April 16 to July 26, 2014:

10365 kHz, 1458z, 24 July, 2014, (SD 84, SN 58, message x3), Token, Thu

10365 kHz, 1458z, 23 July, 2014, (SD 84, SN 58, message x3), Token, Wed

10365 kHz, 1459z, 16 July, 2014, (SD 84, SN 58, message x3), Token, Wed

10365 kHz, 1459z, 15 July, 2014, (SD 84, SN 58, message x3), Token, Tue

10365 kHz, 1459z, 14 July, 2014, (SD 84, SN 58, message x3), Token, Mon

10365 kHz, 1459z, 03 July, 2014, (SD 84, SN 58, message x3), Token, Thu

10365 kHz, 1459z, 02 July, 2014, (SD 84, SN 58, message x3), Token, Wed

10365 kHz, 1459z, 01 July, 2014, (SD 84, SN 58, message x3), Token, Tue

10365 kHz, 1500z, 13 May, 2014, (SD 84, SN 58, message x3), Token, Tue

10365 kHz, 1500z, 12 May, 2014, (SD 84, SN 58, message x3), Token, Mon

10365 kHz, 1500z, 09 May, 2014, (SD 84, SN 58, message x3), Token, Fri

10365 kHz, 1500z, 08 May, 2014, (SD 84, SN 58, message x3), Token, Thu

10365 kHz, 1501z, 05 May, 2014, (SD 84, SN 58, message x3), Token, Mon

10365 kHz, 1457z, 18 April, 2014, (SD 84, SN 58, message x3), Token, Fri

10365 kHz, 1457z, 17 April, 2014, (SD 84, SN 58, message x3), Token, Thu

10365 kHz, 1457z, 16 April, 2014, (SD 84, SN 58, message x3), Token, Wed

V30 logs, April 16 to July 26, 2014:

10255 kHz, 1558z, 24 July, 2014, (SD 04211, SN 90, message x3), Token, Thu

10255 kHz, 1558z, 23 July, 2014, (SD 04211, SN 90, message x3), Token, Wed

10255 kHz, 1558z, 22 July, 2014, (SD 04211, SN 90, message x3), Token, Tue

10255 kHz, 1558z, 16 July, 2014, (SD unk, too weak, msg 2:16 long, message x3), Token, Wed

10255 kHz, 1558z, 15 July, 2014, (SD unk, too weak, msg 2:16 long, message x3), Token, Tue

10255 kHz, 1558z, 14 July, 2014, (SD unk, too weak, msg 2:16 long, message x3), Token, Mon

10255 kHz, 1559z, 03 July, 2014, (SD unk, too weak, msg 2:16 long, message x3), Token, Thu

10255 kHz, 1559z, 02 July, 2014, (SD unk, too weak, msg 2:16 long, message x3), Token, Wed

10255 kHz, 1559z, 01 July, 2014, (SD unk, too weak, msg 2:16 long, message x3), Token, Tue

10255 kHz, 1559z, 05 June, 2014, (SD unk, too weak, msg 2:16 long, message x3), Token, Thu

10255 kHz, 1559z, 04 June, 2014, (SD unk, too weak, msg 2:16 long, message x3), Token, Wed

10255 kHz, 1559z, 03 June, 2014, (SD unk, too weak, msg 2:16 long, message x3), Token, Tue

10255 kHz, 1600z, 13 May, 2014, (SD 77, SN 48, msg 178 grps long, message x3), Token, Tue

10255 kHz, 1600z, 12 May, 2014, (SD 77, SN 48, msg 178 grps long, message x3), Token, Mon

10255 kHz, 1600z, 09 May, 2014, (SD 77, SN 48, msg 178 grps long, message x3), Token, Fri

10255 kHz, 1600z, 08 May, 2014, (SD 77, SN 48, msg 178 grps long, message x3), Token, Thu

10255 kHz, 1557z, 18 April, 2014, (SD 07611, SN 45, message x3), Token, Fri

10255 kHz, 1557z, 17 April, 2014, (SD 07611, SN 45, message x3), Token, Thu

10255 kHz, 1557z, 16 April, 2014, (SD 07611, SN 45, message x3), Token, Wed

Thanks Token; this station generally not heard in Europe using conventional means

HM01

HM01 continued running on the same schedules during July/August the only change noted was that the transmissions on 12120kHz all switched to 11462kHz starting around July 1st (Thanks Ary for confirming this). Interestingly perhaps this is the first HM01 frequency that does not end with either a 0 or 5. It seems the Cubans had some transmitter problems during July as no transmissions were heard for the 4 days between the 10th and the 14th.

Most files transmitted had a .txt file extension but some .F1C and .F1G files were sent 50771251.F1C, 36046815.F1G, 50343403.F1C, 50081434.F1C, 36204153.F1G, 36757312.F1G . As observed in previous months, the file names for F1C file names begin with 50 and F1G file names begin with 36.

The only other item of note when a new callup appears (with 1 as the last digit) it will often not increment the following day even if all the older callups do. An odd case occurred at 2100z on `19/7 where some callups incremented downwards by 1 since earlier in the day and a new callup appeared in one slot.

On to the logs.

HM01 11435kHz 1600z 30/6 [56458 44701 75471 28267 82043 83757] MON

HM01 11435kHz 1600z 1/7 [56458 44701 75471 28267 82043 83757] All callups incremented +1 except for callup 3. TUE

HM01 11435kHz 1600z 2/7 [56459 44702 75471 28268 82044 83758] WED

HM01 11435kHz 1600z 3/7 [56459 44702 75471 28268 82044 83758] THU

HM01 11435kHz 1600z 4/7 [56459 44702 75471 28268 82044 83758] FRI

HM01 11435kHz 1600z 5/7 [56459 44702 75471 28268 82044 83758] SAT

HM01 11435kHz 1600z 6/7 [56459 44702 75471 28268 82044 83758] SUN

HM01 11435kHz 1600z 7/7 [56459 44702 75471 28268 82044 83758] MON

HM01 11435kHz 1600z 8/7 [57521 07373 38122 08778 38085 07701] All new callups 57521 = 30885752.TXT, 07373 = 74410737.TXT, 38122 = 51223812.TXT, 08778 = 28570877.TXT, 38085 = 35323808.TXT, 07701 = 57660770.TXT TUE

HM01 11435kHz 1600z 9/7 [57521 07373 38122 08778 38085 07701] WED

HM01 11435kHz 1600z 10/7 [57521 07373 38122 08778 38085 07701] WED

HM01 11435kHz 1600z 14/7 [57521 07373 38122 08778 38085 07701] MON

HM01 11635kHz 1800z 14/7 [57521 07373 38122 08778 38085 07701] MON

HM01 11635kHz 2100z 14/7 [57521 07372 38123 08777 38084 78148] New callup position 6 since 1800z all others final digit -1 except position 1 which remained the same. MON

HM01 11435kHz 1600z 15/7 [57522 07374 38123 12511 38086 07701] New callup position 4. 12511 = 50771251.F1C all others incremented + 1 from 1600z yesterday except position 6 which remained the same. TUE

HM01 11435kHz 1600z 16/7 [57523 07375 38124 12511 38087 07702]

HM01 11435kHz 1600z 17/7 [57524 07376 38125 12512 38088 07703]

HM01 11435kHz 1600z 18/7 [57525 07377 38126 12513 70631 07704] New callup position 5, 70631 = 83687063.txt FRI

HM01 11435kHz 1600z 19/7 [57526 07378 38127 12514 70631 07705] All callups incremented +1 since yesterday except position 5 which remained the same. SAT

HM01 11435kHz 1600z 20/7 [57527 07379 38128 12515 70632 07706]

HM01 11435kHz 1600z 21/7 [57528 73871 38129 12516 70633 07707] New callup position 2, 73871 = 61227387.txt MON

HM01 11435kHz 1600z 22/7 [57528 73871 38129 12516 70633 07707]

HM01 11435kHz 1800z 22/7 [57528 73871 38129 12516 70633 07707]

HM01 16180kHz 2100z 22/7 [28627 07711 68158 24467 55523 54737] All new callups since 1800z 28627 = 50222862.txt , 07711 = 03200771.TXT, 68158 = 36046815.F1G, 24467 = 43162446.TXT, 55523 = 21175552.TXT, 54737 = 55245473.TXT TUE

HM01 16180kHz 2100z 22/7 [28628 07711 68159 24468 55524 54738]

HM01 16180kHz 2100z 22/7 [28629 07712 57251 34031 55525 14421] 19 minutes of callups and false starts before RDFT started! New callups positions 3, 4 and 6 57251 = 05535725.TXT, 34031 = 50343403.F1C, 14421 = 60861442.TXT THU

HM01 11435kHz 1600z 25/7 [28629 07712 57251 34031 55525 14421] FRI

HM01 11435kHz 1600z 26/7 [28629 07712 57251 34031 55525 14421] SAT

HM01 11435kHz 1600z 27/7 [28629 07712 57251 34031 55525 14421] SUN

HM01 11435kHz 1600z 28/7 [28629 07712 57251 34031 55525 14421] MON

HM01 11435kHz 1600z 29/7 [28629 07712 57251 34031 55525 14421] TUE

HM01 11435kHz 1600z 30/7 [83122 07714 57252 34032 55527 14422] WED

HM01 11435kHz 1600z 31/7 [83123 07715 57253 34033 55528 14423] THU

HM01 11435kHz 1600z 1/8 [83124 07716 57254 34034 55529 14424] FRI

HM01 11435kHz 1600z 2/8 [83125 07717 57255 34035 28051 14425] SAT

HM01 11435kHz 1600z 3/8 [83126 07718 57256 34036 28051 14426] New callup position 5 82232805.txt SUN

HM01 11435kHz 1600z 4/8 [83127 56451 57257 34037 28052 14427] MON

HM01 11435kHz 1600z 5/8 [50011 56451 57258 34038 28053 14428] New callups positions 1 and 2. 50011 = 13715001.txt, 56451 = 08705645.txt SAT

HM01 11435kHz 1600z 6/8 [50012 56452 57259 76111 28054 14429] New callup position 4 76111 = 27867611.txt WED

HM01 11435kHz 1600z 7/8 [50013 56453 86751 76111 28055 02231] New callups positions 3 and 6 86751 = 32248675.txt, 02231 = 48380223.txt THU

HM01 11435kHz 1600z 8/8 [50014 56454 86751 76112 28056 02231] All callups incremented +1 except the two new ones from yesterday FRI

HM01 11435kHz 1600z 9/8 [53411 56455 86752 76113 28057 02232] New callup position 1. 53411 = 76515341.TXT SAT

HM01 11635kHz 1800z 10/8 [53411 56456 86753 76114 28058 02233] All callups incremented +1 except for position 1 SUN

HM01 11435kHz 1600z 11/8 [53412 56457 86754 76115 28059 02234] MON

HM01 11435kHz 1600z 12/8 [53412 56457 86754 76115 28059 02234] TUE

HM01 11435kHz 1600z 13/8 [53413 56458 86755 76116 85801 02235] New callup position 5 85801 = 55428580.txt WED

HM01 11435kHz 1600z 14/8 [53414 14341 86756 76117 85801 02236] New callup position 2, 14341 = 50081434.F1C all others +1 except for position 5. THU

HM01 11435kHz 1600z 15/8 [53415 14341 86757 03351 85802 02237] New callup position 4. 03351 = 56600335.txt FRI

HM01 11435kHz 1600z 16/8 [53416 14342 86758 03351 85803 02238] SAT

HM01 11435kHz 1600z 17/8 [53417 14343 75581 03352 85804 73241] New callups positions 3 and 6. 75581 = 21267558.TXT, 73241 = 40177324.TXT SUN

HM01 11435kHz 1600z 18/8 [53418 14344 75581 03353 85805 73241] MON

HM01 11435kHz 1600z 19/8 [53419 14345 75582 03354 85806 73242] TUE

HM01 11435kHz 1600z 20/8 [53419 14345 75582 03354 85806 73242] WED

HM01 11435kHz 1600z 21/8 [53419 14345 75582 03354 85806 73242] THU

HM01 11435kHz 1600z 22/8 [41531 14346 75583 03355 85807 73243] New callup position 1, 41531 = 36204153.F1G FRI

HM01 11435kHz 1600z 23/8 [41531 14347 75584 03356 85808 73244] SAT

HM01 HM01 11435kHz 1600z 24/8 [41532 14348 75585 03357 17681 73245] All callups +2 except 1st which is +1. New callup position 5, 17681 = 47341768.TXT SUN

HM01 11435kHz 1600z 25/8 [41533 73121 75586 03358 17681 73246] New callup position 2, 73121 = 36757312.F1G MON

HM01 11435kHz 1600z 26/8 [41534 73121 75587 37221 17682 73247] New callup position 4, 37221 = 13883722.TXT. All others +1 except position 2 which remained the same. TUE

PoSW offers the British view on the transmissions:

HM01 from Cuba has been a good signal in the UK mornings for most of the summer, always with a certain amount of variation in signal strength but the depth of modulation has almost always been good which makes for good copy even if the signal is on the weak side, although the audio has not been quite so readable in the later days of August. Noted 11,635 kHz being used at 0800 UTC on several days of the week, and also at 1000 UTC, only observed before in the late evening UK time. Also, HM01 vanished from the airwaves altogether from the 11th to the 14th of July, returning on the 15th, or at least I couldn't find it on any of the known frequencies.

Continues to give good reception in the UK morning, transmissions in the late evening considerably weaker than earlier in the year. Vanished for a few days in the second week of July.

1-July-14, Tuesday:- 0900 UTC, 11,462 kHz, "56458 44701 75471 28267 82043 83757".
S9 with the usual variations in signal strength, good audio.

2-July-14, Wednesday:- 0600 UTC, 10,345 kHz, "56459 44702 75471 28268 82044 83758".
Peaking over S9, good audio, data noise started at 0603 and 30s UTC.

3-July-14, Thursday:- 0600 UTC, 14,375 kHz, "56459 44702 75471 28268 82044 83758.
Strong "XJT" noise maker churning away on a very close frequency.
0701 UTC, 13,435 kHz, late start, no voice heard until well after 0701z, data at 0705z.
0916 UTC, that's 10.16 AM in the UK, 11,462 kHz, transmission in progress, S9 with rapid QSB, heard 5F groups as earlier.

4-July-14, Friday:- 0600 UTC, 10,345 kHz, "56459 44702 75471 28268 82044 83758". S9 with good audio.
0700 UTC, 9,330 kHz, audio very low at first then suddenly became much clearer during the call-up, 5Fs as earlier.

5-July-14, Saturday:- 0600 UTC, 14,375 kHz, "56459 44702 75471 28268 82044 83758".
S8 with good audio, strong "XJT" on HF side.
0700 UTC, 13,435 kHz, S9+ with good audio, 5Fs as earlier.
0900 UTC, 11,462 kHz, S9 with QSB.
1000 UTC, 12,180 kHz, weak signal, only just readable.

7-July-14, Monday:- 0700 UTC, 9,330 kHz, "57459 44702 75471 28268 82044 83758".

8-July-14, Tuesday:- 0600 UTC, 14,375 kHz, "57521 07372 38121 08777 38084 78148".
S7 to S8 with a distinct "echo" effect on the speech, presumably due to the signal arriving by two distinct paths separated by a fraction of a second.
0700 UTC, 13,435 kHz, 5Fs as earlier.
0900 UTC, 11,462 kHz, weak, propagation becomes worse as the morning progresses, same 5F groups.

10-July-14, Thursday:- 0700 UTC, 13,435 kHz, "57521 07373 38122 08778 38085 07701". S9 with very good audio.
0812 UTC, 11,635 kHz, transmission in progress, surprised to find 11,635 in use at this time of day, 9.12 AM in the UK, only noted before in the late evening UK time after 2100 UTC when it is generally unreadable due to a broadcast station on the same frequency, North Korea, I think, 25 metre band. This was clear enough peaking S9, 5Fs as earlier.
Only three other stations audible in the 25 metre band at this time of the morning, which might say something about the decline in short wave as a broadcast medium, the strongest was a Chinese language on 11,785 kHz which was about the same strength as HM01.
0900 UTC, 11,462 kHz, 5Fs as earlier, S7 to S8 with deep QSB.

11-July-14, Friday:- No sign of HM01 this morning, not at 0700 UTC, 9,330 kHz or 0800 UTC, 9,065 kHz.

12-July-14, Saturday:- no sign of HM01 at 0900 UTC on 11,462 kHz.

13-July-14, Sunday:- Starting to look as if HM01 has gone, nothing heard at 0700 UTC on
9,330 kHz or at 0800 UTC, 9,065 kHz.

15-July-14, Tuesday:- Return of HM01! 0600 UTC, 14,375 kHz, S9 signal with, "57521 07373 38122 08778 38085 07701", same as when last heard on the 10th.
0700 UTC, 13,435 kHz, peaking S9 with deep QSB, 5Fs as earlier.
0800 UTC, 11,635 kHz, weak signal.
0900 UTC, 11,462 kHz, weak but reasonably clear copy.
So where has HM01 been for the past few days then? My first thought was that a tropical
storm had swept across Cuba and damaged the transmitter site; I seem to recall that the V02a predecessor to HM01 a few years back vanished for several days which coincided with a hurricane in that area but there has been no reports of severe weather in that part of the world. However, the *Daily Telegraph* newspaper of 12-July had a report on the official visit to Cuba of the Main Man in Russia, Mr Vladimir Putin. Could this be a reason to close down HM01 for a few days?

16-July-14, Wednesday:- 0600 UTC, 10,345 kHz, "57522 07374 38123 12511 38086 07701",
back in the old routine with an S9+ signal.
0700 UTC, 9,330 kHz, 5Fs as earlier, S9.
0800 UTC, 9,065 kHz, S6 to S7.

18-July-14, Friday:- 0700 UTC, 9,330 kHz, "57524 07376 38125 12512 38088 07703", S9.

19-July-14, Saturday:- 0900 UTC, 11,462 kHz, "57525 07377 38126 12513 70631 07704".

20-July-14, Sunday:- 0800 UTC, 9,065 kHz, "57526 07378 38127 12514 70631 07705", S9 with deep rapid QSB.

21-July-14, Monday:- 0700 UTC, 9,330 kHz, "57527 07379 38128 12515 70632 07706".

22-July-14, Tuesday:- 0700 UTC, 13,435 kHz, "57528 73871 38129 12516 70633 07707".

23-July-14, Wednesday:- 0600 UTC, 10,345 kHz, "28627 07711 68158 24467 55523 54737", S9+.
0700 UTC, 9,330 kHz 5Fs as earlier, S9 with rapid QSB.

25-July-14, Friday:- 0700 UTC, 9,330 kHz, "28629 07712 57251 34031 55525 14421". S9 with the usual QSB.

27-July-14, Sunday:- 0800 UTC, 9,065 kHz, "28629 07712 57251 34031 55525 14421".

28-July-14, Monday:- 0700 UTC, 9,330 kHz, "28629 07712 57251 34031 55525 14421".
Very strong this morning, S9+ with good audio.

29-July-14, Tuesday:- 0700 UTC, 13,435 kHz, weak signal way down in the noise, could just about hear it was HM01.
0800 UTC, 11,635 kHz, much better, S9, "28629 07712 57251 34031 55525 14421".
0900 UTC, 11,462 kHz, S8, 5Fs as earlier.

30-July-14, Wednesday, 0600 UTC + 30s, voice did not start until then, 10,345 kHz "83121 07713 57251 34031 55526 14421", S9.
0800 UTC, 9,330 kHz, 5Fs as earlier, S9 with rapid QSB.

1-Aug-14, Friday:- 0600 UTC, 10,345 kHz, "83123 07715 57253 34033 55528 14423", S9+,
very strong signal.
0657 UTC, 9,330 kHz, early start, call-up in progress when tune in three minutes before the hour, data noise started 0659 UTC.

3-Aug-14, 0700 UTC, 9,330 kHz, loud wideband "buzzing" noise started just as call-up began, extended roughly 9,325 to 9,345 kHz, someone's Over The Horizon Radar? Made HM01 unreadable.
0800 UTC, 9,065 kHz, S8 to S9 carrier but audio level much lower than normal, unreadable.

4-Aug-14, Monday:- 0700 UTC, 9,330 kHz, still with very low audio.
0800 UTC, 9,065 kHz, much better, someone must have given the control marked "El Modulation" a tweak. "83126 07718 57256 34036 28051 14426".

6-Aug-14, Wednesday:- 0700 UTC, 9,330 kHz, "50011 56451 57258 34038 28053 14428", S8 with good audio.

7-Aug-14, Thursday:- 0504 UTC, 11,462 kHz, surprised to find this frequency in use at this time of the day, 11,462 has been noted on several days of the week at 0900 UTC. Was in data mode when tuned in but went into call-up shortly after, "50012 56452 57259 76111 28054 14429". Went into data again just before 0508 UTC.
0700 UTC, 13,435 kHz, S9 with deep QSB, very low audio, unreadable.
0800 UTC, 11,635 kHz, 5Fs as earlier, S9 and back to good audio.

8-Aug-14, Friday:- 0700 UTC, 9,330 kHz, "50013 56453 86751 76111 28055 02231". Peaking over S9 with the usual QSB which always accompanies HM01 and good audio.
0800 UTC, 9,065 kHz, 5Fs as earlier, S9 with deep QSB and good audio.
2141 UTC, 11,635 kHz, transmission in progress, over-riding the BC station on the same frequency, North Korea, I think, Comrade Kim's man shouting the odds. Usually HM01 is made unreadable but the roles are reversed this evening. Heard 5Fs "50014 56454 86751
76112 28056 02231", not quite the same as heard at 0700 Zulu this morning.

9-Aug-14, Saturday:- 0700 UTC, 13,435 kHz, "50014 56454 86751 86751 28056 02231", S7 to S8 with the usual variations.

11-Aug-14, Monday:- 0800 UTC, 9,065 kHz, "53411 56456 86753 76114 28058 02233". Peaking S9, audio somewhat lower than of late.

13-Aug-14, Wednesday:- 0600 UTC, 10,345 kHz, "53412 56457 86754 76115 28059 02234".
S9, audio low but readable.
0700 UTC, 9,330 kHz, 5Fs as earlier, noted that call-up started about 40 seconds before the hour, a few weeks ago was starting pretty much on the hour but is gradually advancing by a second or so with each passing day.

18-Aug-14, Monday:- 0700 UTC, minus forty something seconds, 9,330 kHz, "53417 14343
75581 03352 85804 73241". Audio has been low in relation to carrier strength over the past few days but this was not too bad.

19-Aug-14, Tuesday:- 0700 UTC, minus 45 seconds, 13,435 kHz, 8 AM BST, "53418 14344
75581 03353 85805 73241". S9 with QSB, good audio.
0806 UTC, 11,635 kHz, started late, was not on when checked on the hour, returned six minutes later to find call-up in progress, 5Fs as earlier, data noise started at 0809 UTC.
0900 UTC, 11,462 kHz, S5 at best, 5Fs as earlier.

20-Aug-14, Wednesday:- 0700 UTC, 10,345 kHz, starting up on the wrong frequency; 10,345 would have been used in the previous hour. Vanished about one minute past the hour and appeared on 9,330 kHz. "53419 14345 75582 03354 85806 73242", all moved up by one.

21-Aug-14, Thursday:- 0700 UTC, 13,435 kHz, very weak signal, way down in the noise, unreadable.
0800 UTC, 11,635 kHz, again so weak as to be unreadable, propagation to the west must have taken a tumble. Thanks Peter.

Now onto other's logs; generally DanAR. Other logs available via our groupsite or UDXF [thanks Ary].

July2014

10715kHz	2200z	06/07[56459 44702 75471 28268 82044 83758]QSA2	DanAR	SUN
	2200z	16/07[57523 07375 38124 12511 38087 07702]QSA3 QRM1	DanAR	WED
	2200z	20/07[57527 07379 38128 12515 70632 07706]QSA2	DanAR	SUN
	2200z	27/07[14421 28629 07712 57251 34031 55525] QSA2	DanAR	SUN
16180kHz	2100z	19/07 S9+10	PY4ZBZ	SAT
17480kHz	2200z	19/07 S8	PY4ZBZ	SAT

voice > RDFT encrypted file (decoded with DIGTRX)

57526 > 30885752.TXT 857 bytes
07378 > 74410737.TXT 951 bytes
38127 > 51223812.TXT 459 bytes
12514 > 50771251.F1C 926 bytes
70631 > 83687063.TXT 240 bytes

07705 > 57660770.TXT 562 bytes

17480kHz 2200z	22/07 [68158 24467 55523 54737 28627 07711] QSA2	DanAR	TUE
2200z	24/07 [28629 07712 57251 34031 55525 14421] QSA2	DanAR	THU

August 2014

10715kHz 2200z	01/08 [14424 83124 07716 57254 34034 55529] QSA2	DanAR	FRI
2200z	03/08 [14426 83126 07718 57256 34036 28051] QSA2	DanAR	SUN
2200z	10/08 [53411 56456 86753 76114 28058 02233] QSA3	DanAR	SUN
2200z	13/08 [53413 56458 86755 76116 85801 02235] QSA2	DanAR	WED
2200z	22/08 [03375 85807 73242 41731 14346 75583] QSA2	DanAR	FRI
2200z	31/08 [41537 73124 16621 37223 17685 52301] Weak	DanAR	SUN
17480kHz 2200z	16/08 [53416 14342 86758 03371 85803 02238] QSA2	DanAR	SAT

ALL Voice Logs: Thanks to AB, DanAr, dl3hrt, ES, FR, GD, H-FD, JkC, M8, PoSW, PY4ZBZ, RNGB, Spectre, Token

Digital, Incursions and Unexplained Signals

Sadly over the last couple of months I haven't been able to monitor or contribute to the group as much as I would like due to the pressure of work so excuse this shorter than normal desk report.

FSK200/1000

Much to my surprise recent sad world events (in the Ukraine and the Middle East) seem to have had little effect on the digital stations we monitor. In fact if anything activity seems reduced. Take the FSK200/1000 schedule link ID 'twins' 45136 and 45137. These used to receive a message every weekday (except Friday) at 07:00/10/20 then repeated again at 12:00/10/20. My suspicion has always been that these stations were linked to the Middle East in some way. Since they appeared when the Syrian civil war began in earnest and the lack of a Friday transmission suggested a Middle Eastern link also. By spring this year (2014) the station switched to a 5 day a week schedule by adding a Friday transmission. But during the last couple of months despite the appearance of ISIS and the events in the Middle East this schedule dropped the Friday transmission and even appears to have dropped the 12:00/10/20 repeat as well. The last Friday transmission I logged was on the 18th July when a 4 block null message was sent. Interestingly this was the day after the tragic shoot down of the airliner MH17 in the Ukraine. This lack of traffic after such an important event also suggests this station isn't linked with the conflict in that country either!

In addition there appears to have been a decline in the 'special' link ID 00000 FSK200/1000 traffic also. Recently transmissions to this link ID have become less random and more scheduled. However recently many of these have ended but no random transmissions have been heard either.

FSK200/500

The only known schedules for this mode are still ..

Day	Times
Saturday	12:00/10/20
Saturday	18:10/20/30
Thursday	19:00/10/20

All of the schedules have only sent the usual null message transmissions for the last two months again showing no reaction at all to world events. There have been reports on other groups of unscheduled transmissions sending actual messages but that is normal.

DP01

No further reports of this station since the burst of activity on the 9th/10th/11th April 2014. Again the modes lack of reaction to world events is interesting.

CROWD36

There seems to have been a slight increase in logs of this mode. However as so few members log it on a regular basis it is hard to say if this is just a normal level of activity or if we are seeing an activity spike.

If you are interested in any of these modes I suggest you take a look at the following links. Firstly ..

https://docs.google.com/spreadsheet/ccc?key=0AkzFuw4tyhwldDVOLUx6WHVidEFmUjBYTHNTOE5KdVE&usp=sharing

Shows the active frequencies and schedules for the current month. While..

https://docs.google.com/spreadsheet/ccc?key=0AkzFuw4tyhwldFRuMHRnTThFdWNaQTVlZHEtNGZTaVE&usp=sharing

Shows all frequencies used by these modes. Lastly..

https://docs.google.com/spreadsheet/ccc?key=0AkzFuw4tyhwldHJiaXVIN2xpSU80cGduekFzTXpkb3c&usp=sharing

Shows all (almost 500) FSK200/1000 messages logged.

As ever please send any logs for these modes or any questions about them to the groups mailing list.

PoSW's Items of Interests in the Media:-

Still stuff going on up in the skies:- Following last time's report about an exercise at Stansted Airport involving passenger aircraft being escorted in by RAF jet fighters from a base in Lincolnshire, the following short item appeared in my local free paper, the *Saffron Walden Reporter*, of 31-July:- "Military jets were scrambled last Wednesday after contact was lost with a private plane.
The RAF aircraft - understood to be Typhoons - were deployed as a precaution after air traffic controllers were unable to communicate with a private jet.
It was accompanied by the military aircraft to Stansted Airport. A police statement said the aircraft landed safely at Stansted airport at 7.49pm. The Ministry of Defence confirmed the aircraft were deployed because of a break in radio contact but a spokesman stressed there was 'no threat'.
The runway at the airport was shut for eight minutes before normal operations were resumed."

So – no wreckage, peppered with holes made by 30 mm cannon shells, strewn over the north Essex countryside then - this time.

And there's something going on in the skies over the nation's capital too, apparently. I didn't see the following story reported anywhere in the Mainstream Media, but it was an item on an on-line news site, *Breitbart London*, on 25-July. "Mystery planes appear over London raising fears of police spying", is the headline over a story by Andre Walker and says, "London's Metropolitan Police are under pressure to tell the public whether they have a secret spy plane circling over London eavesdropping on mobile phone calls. The calls have come since it emerged that a small plane with no call sign has been circling over London in recent weeks.
A website that tracks the movements of planes has shown the aircraft going round and round central London at 10,000 ft. It has also been spotted by members of the public on the ground.

The plane has been identified as a twin-engine Cessna F406 with the registration G-BVJT. There are also suggestions that it has operated in other parts of the country, but the debate about its existence has been particularly focussed on London.
So far the Mayor of London has refused to comment on the rumours, and his Deputy Mayor for Policing has claimed he has never heard of any spy planes. But the number of sightings keeps rising.
Darren Burr, who lives under the flight path told ITV London that he saw a second plane:- 'About 6.30 last night I could hear and see a light aircraft circling for over an hour around my house in Oval.
I downloaded a flight tracker and discovered that it was another unmarked aircraft similar to what I'd read about earlier in the day.'
Reports suggest the two planes, costing £3 million a year, are used to monitor mobile phone calls. This has led the Liberal Democrats at the London Assembly to raise questions about the subject.
So far the Mayor's Office for Policing and Crime (MOPAC) have sited 'operational security reasons' for not commenting on the existence of the planes, raising suspicions even further.
Caroline Pidgeon, a Liberal Democrat member of the London Assembly said:- 'Of course the Met needs to defend some secrecy over its surveillance work, however you can't put planes up over London without people noticing. It would be best if the Met simply admitted that vital surveillance work takes place and at the same time was open about the costs of such operations.'
Earlier this year a member of the public filmed one of the planes and put it on Youtube. They claimed it was a joint Police and MI5 operation but did not cite any proof of the allegation."

And I think something like this, linked to an earlier technology, has happened in the past. I can't find my copy of Peter Wright's book *Spycatcher* at the moment, its here somewhere, but I seem to recall that the author describes an exercise to find the whereabouts of Soviet agents in London listening to radio traffic being beamed in from Mother Russia. This was done by flying low around over London in a plane equipped with radio receivers tuned to the expected frequency of the local oscillator of the agent's receiver on the ground tuned in the the Russian transmission. Of course, this would assume the agent was using a superhet receiver with a standard intermediate frequency, say in the range of 455 to 470 kHz - and that the receiver was not fitted with sufficient internal screening to prevent RF radiation from the local oscillator and I can't recall what the outcome was.

[*The technique was called RAFTER and relied on detection of the IF + (or minus) the actual frequency to beat with an oscillator slowly tuned to detect this frequency. It was originally carried out by Peter Wright and Tony Sale – late of Collossus rebuild fame – from a disguised van up Kensington Park Gardens to discover what frequencies the Russian Diplomatic Mission were monitoring. Later the same system was used to find out the frequencies for the number station that Gordon Lonsdale of Portland Spy Ring fame was listening to. This is the same technique used by the TV Detector Van; they intercepted the sound IF, usually 35MHz above or below tuned frequency and then added 5.5MHz, the shift between sound and vision to enable them to predict with accuracy the station being received. A rotatable biconical antenna was used and the resultant signals displayed as two peaks on a spectrum analyser.*
The airborne RAFTER flights were first tested out over Kensington Park Gardens and successfully intercepted the Embassy receivers; what it did not allow was the intercept of the illegal that Wright and Sale searched for, heard the signal but were unable to locate him.
Last time this type of flight came to notice the aircraft were stated as Norman Britten Islanders:

Touchdown Aviation reveals this fine detail:
'The RAF operate three marks of the Britten-Norman Islander. The first aircarft accuired was Serial ZF573 a CC.2A varient which was delivered on the 1st April 1991. This Islander was orginally intended as a stop gap until ZH536 was delivered, but eventually became based. The aircraft was initially operated in a blue and white scheme but was repainted in the standard grey scheme by June 1993 which it still wears today.
A second Islander a CC.2 varient, Serial ZH536 was delivered on the 17th December 1992. A third aircraft was accuired in April 2008 when ZH537 a Islander CC.2B was delivered, this airframe once served with the United Arab Emirates Air Force.
These three aircraft form the Northolt Station Flight at RAF Northolt, near London and are flown in a classified surveillance role and perform electronic intelligence gathering.' http://www.touchdown-aviation.com/types/royal-air-force/islander.php
*I have read elsewhere the aircraft carry cellular equipment that spoofs as a cellular base station, allows calls to be made via *certain* mobile phones and not only records the call but allows pin point accuracy of the user. Accuracy of this claim? Unknown.*] ed.

Russia still best friends with Cuba:- For years, of course, the old Soviet Union were very close to the regime of Fidel Castro in Cuba, and even though the Soviet Union has gone it seems that the Russians are still making their presence felt in that country. Cuba was recently honoured with a visit by the main man in Russia, Mr Vladimir Putin, reported by the *Daily Telegraph* of 12-July. "Vladimir Putin meets Fidel Castro" is the headline

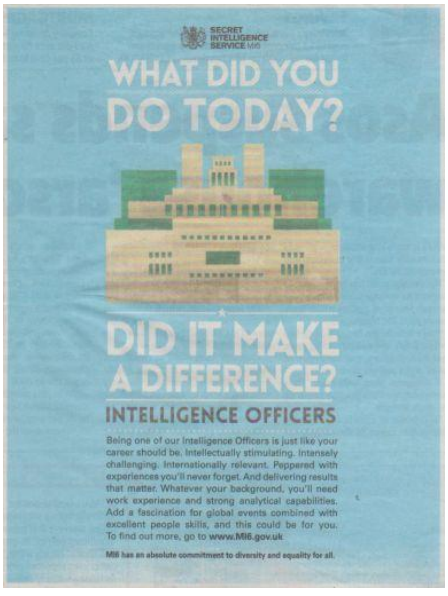
and says, "Russian President Vladimir Putin began a six-day Latin American tour aimed at boosting trade and ties in the region with a stop in Cuba, a key Soviet ally during the Cold War that has backed Moscow in its dispute with the West over Ukraine.
Cuban state media carried photos of Putin's meeting with retired leader Fidel Castro. Putin and Raul Castro, the president, also participated in a ceremony at Havana's Memorial to the Soviet International Soldier.
The two countries signed about a dozen accords in areas such as energy, industry, health and disaster prevention. Russian companies will participate in petroleum projects on the Island's north coast, and that co-operation will extend to offshore oil deposits, the Cuban government website said.
Another agreement covered infrastructure at a big new port that Cuba hopes will become a regional shipping centre and attract much needed foreign investment.
'We are talking about the possibility of creating in Cuba a grand transportation hub with the possible modernisation of the maritime port of Mariel and the construction of a modern airport with its respective cargo terminal.' Putin said according to an official Spanish translation of his remarks in Russian.
Moscow is also forgiving 90 per cent of Cuba's Soviet-era debt which totals more than $35 billion. The remainder will be invested in education on the island, Putin added.
The debt agreement is 'another great, tangible generosity of the Russian people toward Cuba', President Raul Castro said.
Amid the crisis in Ukraine, the countries of Putin's itinerary have shown themselves to be sympathetic, or at least not overtly critical.
Cuban official newspapers tend to characterise it as a struggle against right-wing extremism threatening ethnic Russians in Ukraine. Earlier this year, Foreign Minister Bruno Rodriguez criticised US and European Union sanctions imposed on Russian individuals and pro-Russian Ukrainians. 'In the international arena, we agree with the current policy of strength and political intelligence that the Soviet Union - I mean Russia - is carrying out,' Castro said"

So, Russians back in Cuba and planning to build port and airfield facilities just eighty miles or so off the coast of Florida. What could there possibly be in all this for Uncle Sam to worry about? Coming soon, *Cuban Missile Crisis - The Sequel*?

Oh, and there were two photographs accompanying the article in the *Telegraph*, one with the caption, "Russia's President Vladimir Putin takes part in a wreath-laying ceremony at Havana's Memorial to the Soviet International Soldier," and the other "Cuba's Fidel Castro meets with Russia's President Vladimir Putin", old Fidel looking somewhat less of the firebrand revolutionary these days, I'd say; in fact definitely past it and soon to be receiving a visit from the Grim Reaper by the looks of him.

Wars and rumours of wars:- there does seem to be an air of impending doom around at the moment, what with all the trouble in the Middle East and the spat between Russia and Ukraine. The latter unpleasantness got going some time ago and it appears to be the case that it was being stirred up by the European Union and NATO since it was being suggested that Ukraine should be fast-tracked into both organisations. Certainly, the European Union Flag was being waved about in great numbers in the Ukraine - I often see that circle of gold stars on a blue background referred to as the "Star Spangled Sphincter" by on-line commentators who are less than enthusiastic over the bureaucrats in Brussels desire to interfere in more and more aspects of our daily lives; they have already stated their intention of forming a European Union, "from the Atlantic to the Urals". British businessmen who use a lot of unskilled labour, particularly out in the agricultural fen lands of East Anglia, were already drooling at the thought of another dirt-poor East European nation coming into the EU with the prospect of large numbers of its young men coming to the UK and willing to work for even lower wages than those who have been here for several years. And of course, NATO believing that sooner or later the West is going to fight a war with Russia have a policy of encirclement of that country, just as they did with the old Soviet Union. Little wonder then that that old "Russian Woodpecker" version 2 over-the-horizon radar is still tapping away on the short wave bands, a strong signal in the UK evening at the time of writing, noted back in business at the start of 2014 after an absence of many years.
As if to emphasise the point, the *I* newspaper of 26-July carried a piece by Ian Johnston with the headline, "US military preparing for Cold War scenario", which says, "The Russian President Vladimir Putin has decided to 'escalate' the Ukraine crisis, prompting American military planners to start work on potential scenarios that 'we haven't had to look at for 20 years', the top military commander in the US has said.
General Martin Dempsey also warned that Mr Putin might find the situation runs out of his control.
His remarks came amid ongoing fighting between pro-Moscow rebels in east Ukraine and the Government forces. Ukraine claims rebel fighters are being supplied with weapons by Russia, possibly including the missile launcher that experts in the West believe was used to shoot down the Malaysia Airlines Flight MH17 with the loss of 298 lives.
Speaking at the Aspen Institute on Thursday, General Dempsey said Mr Putin has 'actually taken a decision to escalate' the conflict and 'may actually light a fire' that could engulf a much wider area, according to a report by NBC News.
He warned that Russia's actions were feeding a 'rising tide of nationalism' that could spread throughout Europe, a prospect which he described as 'quite dangerous'.
General Dempsey, chairman of the Joint Chiefs of Staff, said that the diplomatic situation had been changed by Russia's decision to fire artillery shells into Ukraine in support of the rebels.
He said US military planners are now looking at possible American and NATO responses to Russia's actions against Ukraine that were reminiscent of the Cold War. Describing the plans as an early precaution, he said the Pentagon was looking at such issues as 'sea lanes', 'lines of communication' and 'basing'.
'This is very clearly Putin trying to redress grievances for the fall of the Soviet Union,' General Dempsey added.
Russia yesterday accused Ukraine of firing up to 40 artillery shells across the border at a group of Russian law enforcement officers. However Russia's Investigative Committee said none of its officers had been injured."

Gizza Job



WHAT DID YOU DO TODAY?

Me? Workwise? Not a lot. Did it make a difference – absolutely not.

A good advert this with a same day repeat in the Evening Standard newspaper but with 'experiences' of a serving intelligence officer.

Excellent reading matter.

GCHQ accredits UK master's degrees for 'cyber spies'
http://www.bbc.co.uk/news/uk-28623365

Intelligence agency GCHQ has accredited six UK universities to teach specialist master's degree courses to future internet security experts.

The degrees form part of the UK's cyber security strategy published in 2011.

The strategy recognised that education was key to improving defences against hackers and online fraud.

Cabinet Office minister Francis Maude said internet cyber security was a "crucial part" of the government's long-term plan for the British economy.

He said the courses would help to make the "UK one of the safest places in the world to do business online".

He said: "Through the excellent work of GCHQ, in partnership with other government departments, the private sector and academia, we are able to counter threats and ensure together we are stronger and more aware."

UK universities were invited to submit their master's degree courses for certification.

The universities now running GCHQ-approved programmes in cyber security are Edinburgh Napier University, Lancaster University, the University of Oxford and Royal Holloway, University of London.

GCHQ has also given provisional accreditation to Cranfield University's cyber defence and information assurance course, and the University of Surrey's information security course.

A spokesman for GCHQ said the universities "were judged to provide well-defined and appropriate content, delivered to the highest standard".

http://www.bbc.co.uk/news/uk-28623365

Lourdes Base: Cuba, Russia Agree to Reopen Spy Post, Source Says
Wednesday, 16 Jul 2014 08:00 PM
http://www.newsmax.com/TheWire/lourdes-base-cuba-reopen/2014/07/16/id/583136/

Russia and Cuba reached a provisional agreement to reopen the island's Soviet-era Lourdes base, a source said Wednesday. Lourdes was used at one time to spy on the United States.

The move comes as U.S.-Russian relations have reached a post-Cold War low in a dispute over Ukraine.

"A framework agreement has been agreed," the source told Reuters, confirming a report in the daily Kommersant newspaper that the reopening was approved in principle during a visit to Cuba last week by President Vladimir Putin.

In Washington, State Department spokeswoman Jen Psaki declined to comment, noting there was no formal announcement from Moscow. Other U.S. officials were skeptical, questioning whether Russia would go through with what would be an expensive initiative with possible limited returns.

When they closed the base, the Russians said it was a "goodwill gesture" toward Washington, although many U.S. officials at the time believed Moscow was really concerned about costs.

One officials who asked not to be named called Russian statements and news reports about the project "propaganda."

At the height of the Cold War, the base at Lourdes, just south of the capital Havana, had up to 3,000 personnel and was the biggest center Moscow operated abroad for gathering intelligence from radio signals.

The base, 250 km (150 miles) from the U.S. coast, was also used to provide communications for Russian ships.

Government and Kremlin officials did not immediately comment. The base was closed in 2001. Discussions about its reopening began several years ago and intensified this year, Kommersant said, as relations with the United States deteriorated.

Since the Ukraine crisis worsened in February, the United States and the European Union have imposed sanctions on Russia and Moscow has tried to bolster ties with other countries, including in Asia and Latin America, to ensure Russia is not isolated.

Kommersant gave no financial details about the agreement, but noted Russia agreed before Putin's visit to forgive 90 percent of Cuba's $32 billion Soviet-era debt.

Putin, who is attending a summit of the BRICS emerging market powers in Brazil, also visited Argentina last week.

While visiting Cuba, the Russian leader pledged to help revive its former Cold War-era ally's offshore oil exploration. . In Argentina, he signed a trade deal intended to increase Russia's influence in the region.

Russian defense experts said reopening the base would be a logical move for Russia, increasing its ability to gather intelligence by intercepting signals "quite significantly."

"One needs to remember that Russia's technical intelligence abilities are very weak. This will help," said Ivan Konovalov, head of the Moscow-based Center for Strategic Trends Studies.

He estimated that Moscow received at least 50 percent of all radio-intercepted intelligence on the United States through Lourdes during the Cold War.

Sergey Ermakov, head of the Regional Security Section at the Russian Institute for Strategic Studies, said the Cuba move was designed to show other countries Moscow will support them.

"After what's happened in Ukraine, with all these alliances the United States has developed, Russia is showing it's joining the game and that it too can lean on allies and form alliances." he said.

The base at Lourdes was created in 1964 after the Cuban missile crisis to gather intelligence. It monitored signals from and to submarines and ships, as well as satellite communications.

The Cuban missile crisis in 1962, which began after Moscow proposed placing Soviet nuclear weapons on the island, is widely regarded as the moment in the Cold War when the United States and the Soviet Union came closest to a nuclear confrontation.

http://www.newsmax.com/TheWire/lourdes-base-cuba-reopen/2014/07/16/id/583136/

Ex-US Navy officer who spied for Soviets dies in prison
http://www.bbc.co.uk/news/world-us-canada-28992446

A former US navy sailor who led a spy ring for the Soviet Union has died in a prison medical centre at the age of 77.

Retired Navy Warrant Officer John Walker Jr was sentenced to life in prison in 1985 for passing codes and other sensitive dat a to the USSR.

He had recruited his son, his brother and friend to continue spying after he retired. All were convicted.

The breach was considered among the largest leaks of military secrets in US history at the time.

Walker pleaded guilty in 1985, in a deal to gain a lighter sentence for his son, who was released in 2000 after serving 15 years in prison.

The spy ring began when Walker walked into the Soviet embassy in Washington DC in 1967, and offered to hand over secret coded material on a regular basis.

The Soviets used the information he and others passed to them over the course of 17 years to decode millions of secret US navy messages.

Prosecutors said at the time of his arrest that Walker was more motivated by greed than ideology.

His cause of death was not immediately released.

http://www.bbc.co.uk/news/world-us-canada-28992446

Briton jailed for terrorism support
Press AssociationPress Association – Wed, Jul 16, 2014

https://uk.news.yahoo.com/briton-jailed-terrorism-support-195905109.html#V5NRUpK

A British computer expert has been sentenced to twelve and a half years in prison in the United States for helping support terrorism through the internet.

Babar Ahmad, from south London, has already spent 10 years behind bars first in the UK and later in the US after he lost a pr otracted battle against extradition.

Passing sentence in Connecticut, Judge Janet Hall said he would be given credit for the ten years he has already served.

The BBC reported that Ahmad's legal team believe he could be released within about seven and a half months.

The 40-year-old pleaded guilty in December to supporting terrorists through websites that sought to raise money, recruit fighters and solicit items such as gas masks for the Taliban.

The charges related to the now defunct group of pro-jihad websites operating under the name Azzam Publications and set up in the mid-1990s.

Authorities alleged the sites gave support to Afghanistan's ousted T aliban regime, while case documents said they requested military suits and gas masks be donated.

Ahmad's admission came a decade after he was first arrested in London in 2003.

He went on to spend eight years behind bars from 2004 until he was extradited in 2012, along with other men including radical preacher Abu Ham za.

At the time it was the longest period any British citizen had been detained without charge since the September 11 attacks.

He was prosecuted in the US because of the role American authorities played in shutting down the Azzam network.

Delivering sentence Judge Hall said Ahmad helped allow Osama bin Laden to be protected when he was plotting the September 11 attacks by supporting the T aliban.

However, she stressed that he had no knowledge of the plot and there was no evidence he supported bin Laden's al Qaida terrorist group.

Ahmad's lawyer said he publicly condemned the September 11 attacks, while he told the court he supported the Taliban because it was under attack, not because he backed bin Laden or al Qaida.

https://uk.news.yahoo.com/briton-jailed-terrorism-support-195905109.html#V5NRUpK

News Articles from Spectre:

The Guardian 01/07/2014

Top-secret court to weigh ban on MI5 and GCHQ spying on MPs in public

Investigatory Powers Tribunal will hold public hearing brought by Greens on Wilson Doctrine, which bans spying on parliament

Britain's most secretive court is to hold a rare public hearing to decide whether there is any legal force behind the long-standing political doctrine that the country's intelligence agencies cannot bug the phones or spy on the emails of members of parliament.

The Investigatory Powers Tribunal agreed to the hearing after two Green party parliamentarians – Caroline Lucas, MP for Brighton Pavilion, and Lady Jones of Moulsecoomb – complained that disclosures by the whistleblower Edward Snowden made it clear that GCHQ was capturing their communications in breach of the so-called Wilson Doctrine.

Kate Grange, counsel for GCHQ, MI5 and MI6, told the IPT on Tuesday that her clients wanted to reserve the right to make submissions on the issue in "closed" – or secret – session, with the public and the media excluded. "It may well be that we would want to say something in closed about the past policy or practice in relation to the Wilson Doctrine," she said.

The convention is named after former prime minister Harold Wilson, who pledged in 1966 that MPs' and peers' phones would not be tapped. In December 1997, then prime minister Tony Blair said the doctrine extended to electronic communication, including emails.

Prime ministers have the power to reverse the policy. While they must inform MPs of the change, they can choose when to announce it. Lucas and Jones argue that the Wilson Doctrine must have legal force, and complain that GCHQ's bulk interception of electronic communications must be unlawful.

The president of the tribunal, Mr Justice Burton, said he wished first to give a judgment on whether or not the doctrine had legal force. At that point, he said, if it did have legal force "we will make our usual inquiries" of the agencies to establish whether the parliamentarians' communications had been intercepted.

Burton raised objections to the agencies' suggestion that the issue may need to be considered partly in closed session, on the grounds that it would fuel criticisms that the IPT operated in a Kafkaesque fashion, which he said it did not.

But he declined to provide lawyers for Lucas and Jones with a copy of an order that the tribunal had issued to the agencies after the parliamentarians' complaint had been lodged. The government's lawyers say they will neither confirm nor deny the existence of the interception programmes that were disclosed by Snowden.

The hearing was adjourned until October.

The IPT investigates complaints about the intelligence agencies and other bodies that have powers of surveillance. Almost all of its work is conducted behind closed doors, with complainants usually unaware that hearings are taking place.

The IPT is also about to hear a challenge to the legality of the government's bulk interception practices, in a case brought by almost a dozen British and international rights groups.

It is also considering a complaint by a Libyan dissident who was kidnapped in 2004 and delivered to Muammar Gaddafi, along with his heavily pregnant wife, with the help of MI6. He alleged that the bulk interception operations had collected his legally privileged communications with lawyers who are bringing his damages claim against the British government and the former foreign secretary Jack Straw.

The IPT has dealt with about 1,500 complaints since it was established. It has not upheld any complaints about any of the UK's intelligence agencies.

The Guardian 02/07/2014

ISPs take GCHQ to court in UK over mass surveillance

Seven international web providers lodge formal complaint to court alleging breach of privacy and breaking into their networks

Internet service providers from around the world are lodging formal complaints against the UK government's monitoring service, GCHQ, alleging it uses malicious software to break into their networks.

The claims from seven organisations based in six countries – Germany, the Netherlands, South Korea, the UK, the US and Zimbabwe – will add to international pressure on the government after Edward Snowden's revelations about mass surveillance of the internet by UK and US intelligence agencies.

The claims are being filed with the investigatory powers tribunal (IPT), the court in London that assesses complaints about the agencies' activities and misuse of surveillance by government organisations. Most of its hearings are held at least partly in secret.

The IPT is already considering a number of related submissions. Later this month it will investigate complaints by human rights groups about the way social media sites have been targeted by GCHQ.

The government has defended the security services, pointing out that online searches are often routed overseas and those deemed "external communications" can be monitored without the need for an individual warrant. Critics say that such a legal interpretation sidesteps the need for traditional safeguards.

The latest claim is against both GCHQ, located near Cheltenham, and the Foreign Office. It is based on articles published this year in the German magazine Der Spiegel, which alleged that GCHQ had carried out an attack codenamed Operation Socialist on the Belgian telecoms group Belgacom, targeting individual employees with malware (malicious software).

One technique was a "man in the middle" attack, which, according to the documents filed at the IPT, bypasses encryption software and "operates by interposing the attacker [GCHQ] between two computers that believe that they are securely communicating with each other.

"In fact, each is communicating with GCHQ, who collect the communications, as well as relaying them in the hope that the interference will be undetected."

The complaint alleges that the attacks were a breach of the Computer Misuse Act 1990 and an interference with the privacy rights of the employees under the European convention on human rights.

The organisations targeted, the submission states, were all "responsible and professional internet service providers".

The claimants are: the Chaos Computer Club in Germany; Greenhost in the Netherlands; Jinbonet in South Korea; GreenNet in the UK; Riseup Networks and May First/People Link in the US; and Mango Email Service in Zimbabwe.

Their complaint follows articles about mass surveillance in the Guardian based on material released by Snowden.

Among the programs said to have been operating were Turbine, which automates the injection of data and can infect millions of machines, and Warrior Pride, which enables microphones on iPhones and Android devices to be remotely activated.

The action has been supported by Privacy International, a UK charity that defends and promotes the right to privacy across the world. It points out that: "While the claimants were not directly named in the Snowden documents, the type of surveillance being carried out allows them to challenge the practices in the IPT because they and their users are at threat of being targeted."

Eric King, deputy director of Privacy International, said: "These widespread attacks on providers and collectives undermine the trust we all place on the internet and greatly endangers the world's most powerful tool for democracy and free expression.

"It completely cripples our confidence in the internet economy and threatens the rights of all those who use it. These unlawful activities, run jointly by GCHQ and the NSA [National Security Agency], must come to an end immediately."

Cedric Knight of GreenNet said: "Snowden's revelations have exposed GCHQ's view that independent operators like GreenNet are legitimate targets for internet surveillance, so we could be unknowingly used to collect data on our users.

"Our long-established network of NGOs and charities, or simply individuals who value our independent and ethical standpoint, rely on us for a level of integrity they can't get from mainstream ISPs. Our entire modus operandi is threatened by this illegal and intrusive mass surveillance."

Devin Theriot-Orr of Riseup.net said: "People have a fundamental right to communicate with each other free from pervasive government surveillance. The right to communicate, and the ability to choose to do so secretly, is essential to the open exchange of ideas which is a cornerstone of a free society. GCHQ must stop its illegal monitoring activities."

Yeokyung Chang, ICT policy activist at Jinbonet, said: "We are all equal users and citizens in the internet. The right to privacy of users all over the world should be protected equally and should not be infringed by any government."

Sacha van Geffen, CEO of Greenhost, said: "Outsider intrusion such as that of the GCHQ criminalises all the users of the network without legal ground and causes damage to fundamental processes that keep the network running. This illicit activity is not only a blatant violation of human rights but also endangers innocent lives. It must stop at once."

Alfredo López, co-founder of May First/People Link, said: "Using the internet for surveillance and violations of privacy is an obscene betrayal of the reasons for the internet's creation and development."

Jan Girlich at the Chaos Computer Club in Germany said: "The GCHQ's dragnet surveillance takes away all citizens' privacy rights indiscriminately. Thus, not only lawyers, doctors, journalists, and many more people are robbed of their working basis, but everybody is stripped of his or her ability to object to their government's opinion without fear of retribution.

"Monitoring all communications secretively and without any effective control nor checks and balances breaks the foundations on which our modern democracies are based. We are heading towards a police state and the only way to stop this is to bring mass surveillance to an end."

Mother Jones 05/07/2014

Here's What Happens When You Challenge the CIA Through "Proper Channels"

One of the standard criticisms of Edward Snowden is that he should have tried harder to air his concerns via proper channels. This is fairly laughable on its face, since even now the NSA insists that all its programs were legal and it continues to fight efforts to change them or release any information about them. Still, maybe Snowden should have tried. What harm could it have done?

Today, Greg Miller of the Washington Post tells us the story of Jeffrey Scudder, who worked in the CIA's Historical Collections Division. This is a division explicitly set up to look for old documents that can be safely released to the public. Scudder discovered thousands of documents he thought should be released, and he worked diligently through channels to make this happen. When that ran into repeated roadblocks, he eventually decided to try to force the CIA's hand—legally, openly—by filing requests under the Freedom of Information Act:

> Scudder's FOIA submissions fell into two categories: one seeking new digital copies of articles already designated for release and another aimed at articles yet to be cleared. He made spreadsheets that listed the titles of all 1,987 articles he wanted, he said, then had them scanned for classified content and got permission to take them home so he could assemble his FOIA request on personal time.
>
> ....Six months after submitting his request, Scudder was summoned to a meeting with Counterintelligence Center investigators and asked to surrender his personal computer. He was placed on administrative leave, instructed not to travel overseas and questioned by the FBI.
>
> ....On Nov. 27, 2012, a stream of black cars pulled up in front of Scudder's home in Ashburn, Va., at 6 a.m. FBI agents seized every computer in the house, including a laptop his daughter had brought home from college for Thanksgiving. They took cellphones, storage devices, DVDs, a Nintendo Game Boy and a journal kept by his wife, a physical therapist in the Loudoun County Schools.
>
> The search lasted nearly four hours, Scudder said. FBI agents followed his wife and daughters into their bedrooms as they got dressed, asking probing questions. "It was classic elicitation," Scudder said. "How has Jeff been? Have you noticed any unexplained income? Cash? Mood changes?"
>
> ....Last summer, the board recommended that Scudder be fired. Around the same time, he was shown a spreadsheet outlining his possible pension packages with two figures — one large and one small — underlined. He agreed to retire.

So, um, yeah. Snowden should have tried harder to work through proper channels. What harm could it have done?

At this point, of course, I have to add the usual caveat that we have only Scudder's side of this story. The CIA naturally declines to comment. This means it's possible that Scudder really did do something wrong, but spun a self-serving version of his story for Miller's benefit. We'll never know for sure. Nonetheless, I think it's safe to say that this isn't exactly a testimonial for aggressively trying to work through the proper channels, even if your goal is the relatively harmless one of releasing historical documents that pose no threats to operational security at all. By comparison, it's pretty obvious that having his pension reduced would have been the least of Snowden's worries.

Xinhuanet.com 06/07/2014

Suspected German double agent works for CIA

BERLIN, July 6 (Xinhua) -- A suspected German double agent has worked for the U.S. Central Intelligence Agency (CIA), German newspaper "Bild am Sonntag" reported on Sunday.

The case was first uncovered on Friday. A 31-year-old employee of Germany's Foreign Intelligence Service (BND) was reportedly detained Thursday in suspicion of having spied on a German investigation committee inquiring into U.S. surveillance on behalf of an American intelligence service.

The German stated he had been sending secret documents once a week and passed on a total of 218 documents to the United States, "Bild am Sonntag" reported.

The report said the BND employee, whose last task was to get information from the German parliament's panel for investigation of spying activities of the U.S. National Security Agency (NSA), was apparently "accurately controlled" by U.S. authorities.

According to German newspaper "Frankfurter Allgemeine am Sonntag", the man offered himself per e-mail to the U.S. Embassy in Berlin and was being led by a U.S. intelligence service as agent since the end of 2012.

The case has sparked mass indignation among German politicians, who are demanding explanation and warned of negative consequences for the transatlantic relationship.

German President Joachim Gauck expressed his outrage over the case in an interview on Saturday, saying it is "a game with friendships and close relationship" should the suspicion is confirmed.

German government spokesman Steffen Seibert said Friday that the government was concerned about the case, describing it as "very serious." Chancellor Angela Merkel was informed about it on Thursday, Seibert added.

Investigators are currently reviewing the suspect's words. If the suspicion is confirmed, this case would be the biggest scandal involving a German-American double agent in the postwar period.

Revelations of U.S. data gathering practices, especially allegations about its tapping of Merkel's mobile phone, have led to explicit criticism in Germany and strained relations between Germany and the United States.

The NSA inquiry panel was set up by German parliament in March to take a close look at the U.S. surveillance activities as well as the role the BND has played in the spying scandal.

BBC News, 14/08/2014

Germany accused of spying on Kerry and Clinton

Germany's foreign intelligence agency eavesdropped on US Secretary of State John Kerry and his predecessor Hillary Clinton, German media reports say.

Der Spiegel magazine says the calls were collected accidentally and the recordings were destroyed immediately.

Mr Kerry has reportedly spoken to his German counterpart, Frank-Walter Steinmeier, about the claims.

Correspondents say the reports will embarrass Germany after a row about the US spying on Chancellor Angela Merkel.

Der Spiegel said the German intelligence agency had tapped a satellite phone call Mr Kerry made in 2013.

Reports in German daily newspaper Suddeutsche Zeitung and public broadcasters NDR and WDR said documents passed to the CIA show German spies had also eavesdropped on Hillary Clinton when she was US Secretary of State.

German government sources told the newspaper and two broadcasters, that they intercepted the call by chance, and she had not been deliberately targeted. They also said it happened just once.

But media reports said it had not been an isolated case.

A spokesman for the US embassy in Berlin declined to comment on the reports.

If confirmed the revelations could prove difficult for Germany. Relations with the United States have deteriorated amid allegations of American spying on Germany.

The head of the CIA in the country was expelled last month, after it emerged the agency had tapped Chancellor Merkel's mobile phone.

Russia Today, 24/08/2014

Israeli spy drone downed near Iran's Natanz nuclear plant – Revolutionary Guards

Iran has shot down an Israeli spy drone trying to penetrate the "nuclear off-limits area" of the Natanz nuclear site, the Revolutionary Guards said on their website.

"The downed aircraft was of the stealth, radar-evasive type and it intended to penetrate the off-limit nuclear area in Natanz... but was targeted by a ground-to-air missile before it managed to enter the area," Reuters quotes the statement by the Revolutionary Guards.

Iran's forces fired a missile at the drone as it neared its uranium enrichment facility in Natanz, more than 300 kilometers south of Tehran.

The statement did not say when the drone was downed, nor did it elaborate on how the Guards knew the drone was from Israel.

The Israeli military said it did not comment on foreign reports.

The Natanz site is generally regarded as Iran's central facility for uranium enrichment and is said to operate over 5,000 centrifuges. However, enrichment has periodically been halted due to negotiations with the International Atomic Energy Authority (IAEA) and the six world powers over Iran's controversial nuclear program.

The Natanz site is now inspected daily by the IAEA as part of the agreement reached between Iran and the six world powers in November 2013.

The West fears that Iran could be developing a comprehensive nuclear program to build a nuclear bomb, but Tehran says it is purely for medical and energy supplies needs.

Israel wants to stop Iran building a bomb "before it is too late" and if necessary use targeted airstrikes to take out Iranian nuclear facilities.

Israeli Prime Minister Benjamin Netanyahu has said publically that he accepts US President Barack Obama's given timeline of how long it could take the Iranians to build a bomb - put at one year.

"There's not a lot of time and every day that passes diminishes it, but we do have a common assessment on these schedules on intelligence," Netanyahu said in March.

Nentanyu provoked controversy when he drew a "red line" on a diagram of a bomb at the United Nations General Assembly in November 2012 to symbolize how close Tehran was to developing a bomb.

Tehran meanwhile has accused Israeli's intelligence agency Mossad of running a campaign for several years to assassinate Iran 's nuclear scientists and thus slow down the nuclear program. At least five Iranian scientists have been murdered, mostly by bombs planted in their cars. No Israeli agents have been caught, although several Iranians who may have helped them have been arrested and tried.

In 2010 the so-called Stuxnet virus temporally disrupted the operation of hundreds of centrifuges at the Natanz uranium enrichment facility. Iran said it was a concerted effort by Israel and the US to undermine its nuclear program.

In March pumps at Iran's Arak reactor were allegedly subjected to a failed sabotage attempt, according to Iranian officials.

The Globe And Mail, 28/08/2014

Canadian couple detained in China were spies disguised as 'ordinary citizens': state media

A Canadian couple detained by Chinese authorities were spies disguised as "ordinary citizens," according to new information published by China's state media.

Kevin and Julia Garratt have been accused of stealing Chinese military and national defence research secrets. They were detained Aug. 4, but not formally arrested, and China has offered little information on what they are accused of doing. The Christian couple ran a coffee shop near the border with North Korea, worked to bring humanitarian aid into that secretive country and worked to train North Korean Christians inside China.

Their detention by China's State Security Bureau has been seen by Canadian authorities as reprisal for the arrest of Su Bin, a Chinese immigrant to Canada suspected of masterminding the electronic theft of U.S. fighter jet secrets.

But on Thursday evening, the Global Times, a mouthpiece for the Communist Party, published an informational graphic, entitled "Peeking in China: Spying targets and tactics" that lists the couple with others arrested and sentenced for espionage in the past 11 years.

The Garratts were spies in disguise as ordinary citizens, the graphic claims. It lists "targeting areas to collect information while disguised as ordinary citizens" as surveillance that is one of the "regular missions of spies."

The graphic offers further detail on other such missions, which include:

"Deliberately denigrate China's military power in online forums, military websites or on chat platforms to evoke patriotic netizens to disclose information in their replies."
"Deliberately publish false information on China's military forces in forums, military websites or on chat platforms to covertly solicit corrections."
"Deliberately post photos of China's military equipment in forums, military website [sic] or on chat platforms to glean more photos more netizen responses."

It's unclear whether those details are intended to refer to the Garratts. Mr. Garratt made a hobby of photographing goods, including luxury cars and aid shipments, crossing the border into North Korea. He occasionally posted them to the Internet. But that had "nothing to do with the military," his son, Peter, told The Globe and Mail in an interview the day after the couple were detained.

China's state secrecy laws are very broadly written and can be applied retroactively, making them vulnerable to being used as trumped-up charges, experts have said.

The Global Times graphic places the Garratts in the company of Wang Qingjian, a People's Liberation Army senior colonel who was working for Japan and helped to bug the office of the Chinese ambassador in Tokyo; of Cai Xiaohong, a senior Chinese official in Hong Kong who was paid hundreds of thousands of dollars to give secrets to the British; and of Lu Jianhua, a sociologist who established ties with the Chinese president's office and was sentenced to 20 years in jail for passing secrets to the U.S., Japan and Taiwan.

According to the Global Times, punishment for state secrets violations can include deportation for diplomatic staff, an exchange of spies, up to seven years in jail for "intentionally or negligently" divulging state secrets, or death for "stealing, spying or purchasing military secrets for agencies, organizations or individuals outside China."

The Garratts remain in Dandong, the Chinese border city where they lived, but have been barred from meeting with a lawyer hired by the family.

"They said because this is a state security issue, they won't be providing access to legal counsel at this time," their son Simeon said in an interview Thursday.

Staff from the Canadian embassy in Beijing have now met with the couple twice, most recently last week. At that meeting, Mr. Garratt said he has been allowed just 15 minutes outside each day, Simeon said.

"They're doing ok, I guess. They're a little bit annoyed and confused still," Simeon said.

Canadian Cabinet ministers and foreign affairs officials have said very little about what they are doing on behalf of the couple in hopes they can achieve some sort of quiet resolution without angering China.

But the silence has created unhappiness among the couple's children, who this week wrote a letter to the Canadian embassy in Beijing and the Department of Foreign Affairs, Trade and Development "to get more of an update on what's happening on their side," Simeon said. "We haven't heard too much. We are trying to push them to be a little bit more open with us, and at least give us some indication as to where this could be going."

The family is "frustrated," he said. "At this point, it's just tough."

Washington Times

Top Gun takeover: Stolen F-35 secrets showing up in China's stealth fighter

A cyber espionage operation by China seven years ago produced sensitive technology and aircraft secrets that were incorporated into the latest version of China's new J-20 stealth fighter jet, according to U.S. officials and private defense analysts.

The Chinese cyber spying against the Lockheed Martin F-35 Lightning II took place in 2007 under what U.S. intelligence agencies codenamed Operation Byzantine Hades, a large-scale, multi-year cyber program that targeted governments and industry.

Defense officials said the stolen data was obtained by a Chinese military unit called a Technical Reconnaissance Bureau in the Chengdu province. The data was then passed to the state-run Aviation Industry Corp. of China (AVIC).

An AVIC subsidiary, the Chengdu Aircraft Industry Group, used the stolen data in building the J-20, said defense and intelligence officials familiar with reports of the illicit tech transfer.

Pentagon technology security officials in 2011 opposed a joint venture between General Electric and AVIC over concerns that U.S. fighter jet technology would be diverted to AVIC's military aircraft programs. The Obama administration ignored the concerns and instead has since promoted the systematic loosening of technology controls on transfers to China.

The Office of Director of National Intelligence is known to have details of AVIC's past involvement in illicit arms transfers and its role in obtaining sensitive F-35 technology through cyber espionage, the officials said.

The F-35 data theft was confirmed after recent photographs were published on Chinese websites showing a newer version of the J-20. The new version of the radar-evading aircraft had incorporated several design upgrades since the first demonstrator aircraft was revealed in 2011.
According to the officials, the J-20 has progressed from prototype to demonstrator. One of its most significant weapons enhancements is a new electro-optical targeting system under its nose.

Additionally, protruding engine nozzles seen in the earlier version have been hidden, an attempt to further reduce the jet's radar signature. The newest J-20 also appeared with a different radar-absorbing coating.

Photos of the newer J-20 were first posted online on Chinese military forums on Jan. 17.

The Pentagon's Defense Science Board revealed earlier this year that system design information on the F-35 was obtained from cyber attacks.

The new Terminal High Altitude Area Defense missile systems and Patriot Advanced Capability-3 (PAC-3) missile defenses, along with many other systems, were compromised through cyber espionage, the board said in a report.

Most details of the Chinese cyber espionage campaign to obtain F-35 technology remain secret.

However, the Chinese probably obtained the F-35 secrets from Lockheed Martin, its subcontractors, or U.S. allies involved in the development program. Allies that took part in the F-35 program include the United Kingdom, Israel, Italy, Australia, Canada, Norway, Denmark, the Netherlands, and Turkey.

A Chinese Academy of Military Sciences official, Du Wenlong, told Chinese state television on Feb. 20 that the new J-20's shortened exhaust nozzles, along with tail and vertical fin modifications, are designed to reduce radar detection.

Du also said that a "revolutionary" breakthrough allowed the twin engines to increase both power and reliability.

China's inability to manufacture quality jet engines has been a weakness of its aircraft manufacturing programs.

Du also said that the electro-optical targeting system provides better surveillance and strike capabilities against both land and sea targets.

The J-20 also has a larger weapons bay than the U.S. F-22, which allows it to carry more powerful missiles that can be used against "aircraft carrier and foreign AEGIS ships," Du said.

U.S. officials said the new J-20 had undergone ground tests, but it had not been flight tested as of early March.

Richard Fisher, a specialist on Chinese weapon systems, said the new J-20 was flight tested on March 1 and demonstrated the enhanced fifth generation jet fighter features.

Fisher, with the International Assessment and Strategy Center, said it is "very curious" that the new J-20 featured its new electronic targeting system under its nose. That location increased its field of view and is similar to the targeting system on the F-35.

"This targeting system and a set of distributed high-power infrared sensors give the F-35 a previously unrivaled 'situational awareness,' but the now it is clear that the J-20 will have a similar targeting system and its own set of distributed sensors," Fis
"If as part of their espionage, China had also gained engineering insights into the F-35's very advanced sensor systems, that could prove disastrous to its combat potential barring a rapid redesign and improvements before entering service," Fisher added.
Advanced sensors on the F-35 were intended as insurance for the jet not having the best capabilities for maneuvering in flight, he said.

"But if the Chinese, via cyberespionage, have gained insights into its sensor system, then it is to be expected that China is also working on ways to jam or otherwise degrade its advantage," Fisher said.

The J-20 targeting system indicates that the Chinese plan to use the jet for ground attack and air superiority missions like the F-35, he said, adding that it now appears the J-20 will be comparable to the more capable F-22.

"We can be assured that J-20 production will significantly exceed that of the 187 F-22 fighters cut off by the Obama Administration in 2010," he said.

China's Communist Party-affiliated Global Times reported Jan. 20 that China obtained key technologies from the F-35 and incorporated them into the J-20
The newspaper did not admit stealing the technology, but stated that China "completely obtained the six key technologies" from the F-35.
Those features include the electro-optical targeting system and a diverterless supersonic inlet, a thrust-vectoring jet nozzle, and a fire-control array radar system.

Thanks Spectre!

SPECIAL MATTERS

Operation Jallaa: 0

MESSAGES:

'E' Many thanks for your input. Most in, any overflow next time. Keep well.

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