

ENIGMA 2000 NEWSLETTER



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



BAe Systems Type 101 Mobile Air Defence Radar System.

A fully automatic system capable of firing devices
without human intervention.

Located in Kent

Tnx Male Anon

ISSUE 72
September 2012

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

Editorial, Issue 72

Variable signals across the month of July; rapidly changeable weather leading to some peculiar conditions with QRN rearing its ugly head. To break this cycle we offer the cover story before our station round up.

Cover pic story

Olympics and the Aether

Anon

In case anyone is still unaware London is hosting the 2012 Olympics, in fact by the time you read this it will all be over. Among the preparations is the need to ensure sufficient radio frequencies are available to meet an unprecedented demand. As the world's media descend on East London there will be a need for a huge range of services from satellite links to mobile phones, Wi-Fi, 2-way radios, radio links and wireless microphones. The job of providing all this falls to the British regulator Ofcom.

One of our members living close to London has stumbled across what may be a strange side effect of this process. As a monitor of all things radio he regularly scans the FM broadcast band, logging illegal "pirate" stations centred on the capital. For the past few years the band has been seemingly abandoned to the pirates, for Ofcom, once a proactive body, now only acts when an interference complaint is received.

Many of the stations run twenty four-hours a day, seven days a week, with others adding to the mix at weekends. At any time over the last few years at least thirty or more stations could be heard squeezed in between licensed broadcasters, a log from February 2012 lists forty stations from 87.5 to 108 MHz.

Between February and June the number of these stations dramatically decreased and long established stations disappeared from the band. On several recent band scans only six to eight stations were heard. Given that the eyes, (and ears), of the world will be upon us, has the government initiated a crackdown of the pirates, concerned that a vital link or relay may be wiped at a crucial moment by Garage, Old School or Bass & Drum? It would certainly seem so.

Frequencies recently released by the TV switchover from analogue to digital transmissions have been temporarily allocated to wireless mics and links, as have a variety of other band segments. To the consternation of radio amateurs parts of their bands have also been reallocated, with restrictions to various frequencies including parts of the 70cms amateur band and 300kHz at the lower end of the 2 metre band.

Any aspiring pirate operator who may have been thinking of joining the fray should bear in mind that as he bursts through the roof access of the tower block to hoist his antenna he could be confronted by one of the rooftop anti-aircraft missile squads or even possibly, a police marksman.

Thanks Anon.

I might state that hearing ATLAS Control on 118.225, 118.425, 119.225 and 119.975MHz speaking with aircraft as they approached the 'forbidden zone' showed just how geared up for problems we were. Despite all the nonsensical posts from a moronic public about MANPAD units on roofs and such like it was obvious they were the last line of defence, the folorn hope. There were also the North and South ATLAS Control freqs of 132.800 and 123.225MHz respectively.

I also intercepted a certain HF freq that was being used to pass certain targeting info *en clair*. I see fit not to disclose that frequency although a few others reading this will be aware that I did copy this info at good strength; an indication that NVIS was being used. For once Britain did the right thing, not the Govt or that other faisco, G4S, but our armed forces. Proper persons and proper planning to whom the adage PPP=PPP and something which our successive useless governments should note as a mantra to be followed.

[BTW PPP=PPP means: *Piss Poor Planning equals Piss Poor Performance.....understand that well HMG, some of the public are seeing through you useless MPs who have never had a proper job or ranked up a sweat trying to earn a crust. You are the mosquitoes and tapeworms of the country. Parasites who live off the fat of the land whilst others struggle*].

A quick round up of the regularly received Morse stations followed by Voice comment. You can find out more by reading the full log sections on these stations.

As ever, thanks to the monitors who supplied us with logs and thanks to the different 'desks' who have collated our input to produced reports and charts. Sadly there will be no Cuban Charts this month; matters are in expert hands and we dare to predict a return to normatily for NL74, if not sooner.

M01 - Did another operator take over the key following an unusually bad and abandoned attempt at sending a message on Sun 19 August?

M08a - A good selection of logs including many from new member Graydogs (Ggs), who is discovering the stations' legendary propensity for errors.

M12 - Fritz (FN) has supplied us with almost a full set of logs from this active station.

M23 - Details of the June's '555' short-lived transmissions have been included this time as these were found just as the last Newsletter was going to press. Another transmission, this time '111' was found in August - unfortunately also short-lived, and being called by a pirate with a weak signal over several days.

M51 - Following a recent look at this station, we have a new allocation of M51a. Full details of the change and a short report on this station's output.

M89 - JPL continues to search out and log the pairings and operator chat from this unusual station.

M97 - As well as sending four new messages this station has revealed a little more about itself, using the phrases 'So Dien' & 'So Nhom' in place of the usual 'SD' & 'SN' abbreviations for the serial number and group count on one of the July messages. Any Vietnamese speakers out there?

Thanks Brian, now onto the Voice station round up.

E06

Continues much as expected, the early morning 0030/0130z Sat/Sun now considered closed and sadly missed. Some strong signals noted in August but also some changeable conditions leading to fades.

E07

Started well with a 142 group message for someone with the high group count carrying over into August and becoming 124 groups, the resultant message being a respectable 15mins of writers' cramp long. A slight change occurred on the tertiary frequency of the August Sunday/Wednesday 1700z schedule with the change to 10505kHz from 10118kHz [1740z]; noted by PLdn and also on group.

E07a

The Wednesday, Thursday schedules have continued with excellent strengths whilst the new Saturday schedule has varied from excellent to fair strengths across both July and August.

E17z

Remains as much heard before over May and June, and commented on in NL71

E25

Undoubtedly active with few reports available to us at this time; thanks to those who have sent in.

Fam3 stations; E11, G11 and S11a.

The STRICH stations behaving as expected, messages circa 30 to 40grps intercepted over July and August.

G06

Remains active as expected over both months; some good strong signals heard, with the Monday 215 being much variable and not to the best.

S06/S06s

Reports of this very active station show the sort of strength variation one would expect of such a large and active schedule. S06s continues with its many schedules with four minutes of "no message" with the exception of the Monday schedule in July which sent a full message with a group count of 139.

S21

Minimal reports, signals on these freqs at these times expected to be weak and difficult – more so than usual.

S28

Still active, with odd report

V02a

Not many reports here; Either the DGI have started using other methods or there's not much interest in these stations anymore. Thanks to those who reported these. Strangely 0700/0800z sending are audible in Argentina with good work done by Daniel; despite monitoring nothing heard, as expected, by British monitors.

V16

We have had an input from an unexpected source who must remain 'MaleAnon2'

V21 Reports of this enigmatic station again thanks to MaleAnon

SK01 New transmission format describe [thanks MaleAnon].

XPA

The continuing no show from schedule XPA b means it leaves our reporting sheets with this issue having been NRH for three months. XPA c is continuing to send, surprising us with a full message too.

XPA e with its variable strengths, poor to readable, has now moved to its 1900z slot where it continues much as reported.

XPA2

The expected freqs working well for the Sunday/Tuesday schedules across both months and anyone's guess where it goes after this.

Some additional freqs sent in, some 'one hit wonders' as expected with others

Cover pic story

Olympics and the Aether Anon

In case anyone is still unaware London is hosting the 2012 Olympics, in fact by the time you read this it will all be over. Among the preparations is the need to ensure sufficient radio frequencies are available to meet an unprecedented demand. As the world's media descend on East London there will be a need for a huge range of services from satellite links to mobile phones, Wi-Fi, 2-way radios, radio links and wireless microphones. The job of providing all this falls to the British regulator Ofcom.

One of our members living close to London has stumbled across what may be a strange side effect of this process. As a monitor of all things radio he regularly scans the FM broadcast band, logging illegal "pirate" stations centred on the capital. For the past few years the band has been seemingly abandoned to the pirates, for Ofcom, once a proactive body, now only acts when an interference complaint is received.

Many of the stations run twenty four-hours a day, seven days a week, with others adding to the mix at weekends. At any time over the last few years at least thirty or more stations could be heard squeezed in between licensed broadcasters, a log from February 2012 lists forty stations from 87.5 to 108 MHz.

Between February and June the number of these stations dramatically decreased and long established stations disappeared from the band. On several recent band scans only six to eight stations were heard. Given that the eyes, (and ears), of the world will be upon us, has the government initiated a crackdown of the pirates, concerned that a vital link or relay may be wiped at a crucial moment by Garage, Old School or Bass & Drum? It would certainly seem so.

Frequencies recently released by the TV switchover from analogue to digital transmissions have been temporarily allocated to wireless mics and links, as have a variety of other band segments. To the consternation of radio amateurs parts of their bands have also been reallocated, with restrictions to various frequencies including parts of the 70cms amateur band and 300kHz at the lower end of the 2 metre band.

Any aspiring pirate operator who may have been thinking of joining the fray should bear in mind that as he bursts through the roof access of the tower block to hoist his antenna he could be confronted by one of the rooftop anti-aircraft missile squads or even possibly, a police marksman.

Thanks Anon.

I might state that hearing ATLAS Control on 118.225, 118.425, 119.225 and 119.975MHz speaking with aircraft as they approached the 'forbidden zone' showed just how geared up for problems we were. Despite all the nonsensical posts from a moronic public about MANPAD units on roofs and such like it was obvious they were the last line of defence, the forlorn hope. There were also the North and South ATLAS Control freqs of 132.800 and 123.225MHz respectively.

I also intercepted a certain HF freq that was being used to pass certain targeting info *en clair*. I see fit not to disclose that frequency although a few others reading this will be aware that I did copy this info at good strength; an indication that NVIS was being used. For once Britain did the right thing, not the Govt or that other faisco, G4S, but our armed forces. Proper persons and proper planning to whom the adage PPP=PPP and something which our successive useless governments should note as a mantra to be followed.

[BTW PPP=PPP means: *Piss Poor Planning equals Piss Poor Performance.....understand that well HMG, some of the public are seeing through you useless MPs who have never had a proper job or ranked up a sweat trying to earn a crust. You are the mosquitoes and tapeworms of the country. Parasites who live off the fat of the land whilst others struggle*].

Before we look at the two months intercepts here's an account from HJH on his business visit to Bletchley Park for his 65th birthday:

TWO GO MAD AT BLETCHLEY! (APOLOGIES TO E. BLYTON.)



Intercept suite to produce the intercept for Colossus to number crunch. Of interest, the AR88 receivers and [especially for DoK] the Morse Undulator sited middle lower. The receivers were working and were tuned top DDK9 on 10100.8kHz for the tty sound to baffle visitors ---- not us two old sweats though

One of the great things about getting old, (well, the ONLY thing, really) is that people will buy you the things that you REALLY would like for your birthday. Probably makes up for all those years of really NAFF gifts! So, on my 65th, lo and behold, the memsahib gave me a pass to Bletchley Park for two, and a load of spending cash! Quicker than a politician telling porkypies, plans were laid with my old buddy Paul B to visit said Crypto Palast.

Only catch was, Paul and his family would have to put up with me for 4 whole days. "No such thing as a free lunch," Paul was heard to mutter.

Travelling up by coach was doddle, although it takes longer, it is MUCH cheaper, and as added insurance, I took a favourite German language paperback. For our German members, it was “Die Rollbahn” (The Runway) by Heinz Konsalik. Why? Simple! Like Jasper Carrot, when travelling, I always seem to attract “The Nutter!” (Yeah, like calls to like!) Burying my nose in this, nary a dipstick approached me ‘ere we reached our destination.

Saturday dawned bright and early, (shows that this was a long while ago now!) and Paul and I set off for Bletchley courtesy of London Transport, initially, and, on the home stretch, British Rail, or their descendants.

We arrived and were pleasantly surprised to find it really IS only a short walk to the Park from the train station. (I was, it was Paul’s umpteenth visit.) Transferring the passes into admission tickets was short work, and the staff are genuinely helpful and obviously all enthusiastic supporters of “The Park.”

After a short wait, we started out on our guided tour, with an excellent guide, who, like the rest is a supporter of Bletchley Park Trust. The amount of work done to restore the old mansion is impressive by any standards.

I will not bore the readers with a blow by blow account, ‘cos my memory is another thing which is none too good these days. Suffice to say, and this is worthy of mention, is that the Park was earmarked for use, pre-war, by the then head of MI5 for use by the Code staff. Sufficient funds were not forthcoming from Government funds. Instead of shrugging his shoulders, and writing off the project, Admiral Sinclair used his own personal money to buy this site. I mention this here, because it is, I think, indicative of how things have altered in this country. (Britain.) Would such patriotism be found today? One would like to think so, but for one, I very much doubt it!

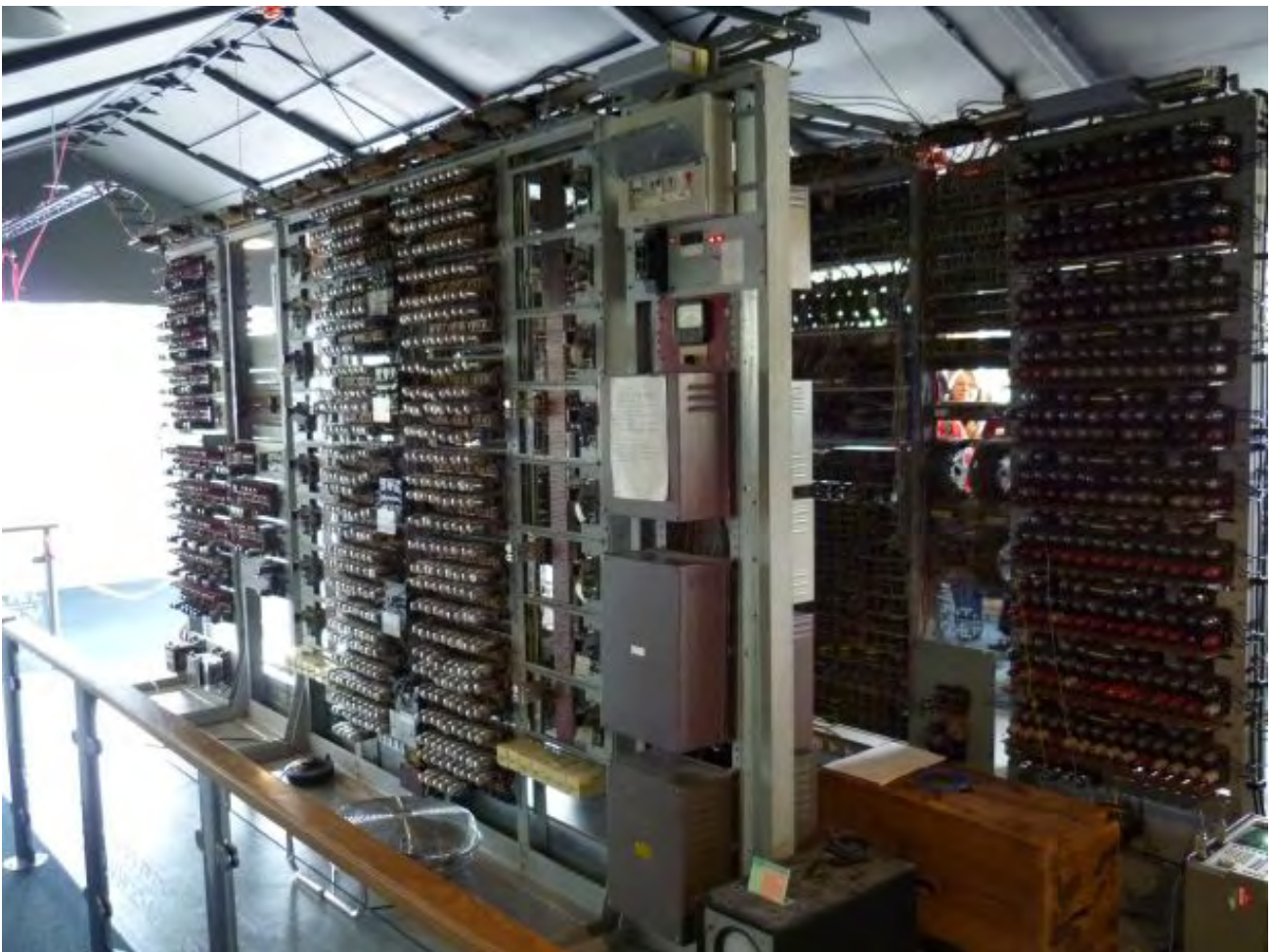
Our tour guide took us through every facet of the operation of interception of code breaking which took place at Bletchley Park, or Station X, as it has become known to many.

One thing which sticks in this addled old pate is that Station X was the name given to the radio intercept station located in the tower on the building of Bletchley Park, and only referred to that location.

The name I shall use, for ease of reference and due to my sheer laziness, is The Park. We were shown the replica Bombe machines and I was heartened that the immense contribution of our WW2 allies, initially the Poles, and later the French, was not left out. Also making a huge contribution were the United States team of cryptanalysts and Sigint officers who were attached to the Park. The contribution which they would make was enormous when it resulted in the breaking of Japanese naval and other codes although Bletchley had, again, got there first [JN25 & Eric Nave of RAN]. This achievement has often struck me as too little thought of or acclaimed today. Imagine, even attempting to break a code in a language as difficult as Japanese must be to we Occidentals.

No mean feat. This breakthrough culminated in the ambush and shooting down of the personal aircraft of Admiral Yamamoto. One is reminded of one of this officer’s remarks post Pearl Harbour. “We have awakened a sleeping giant.” (Sure took the edge off my cousin’s college days. He was in the South Pacific on Assault Transports soon after! However, unlike Yamamoto, he survived, and is now retired in California!)

The out stations which were involved in the code breaking operations were covered in some detail. What is often forgotten is that without interception, sometimes translation, and eventually analysis, code breaking would be difficult, if not impossible. Certainly, no interception equals no coded traffic on which to carry out cryptanalysis!!!



A different view of Colossus, taken during the trip, of the business side of the machines, showing the many valves used [tubes].

On with the tour, we came later to the working replica of Colossus. Now fully restored and working, this machine is a living working tribute to the men and women who worked so hard to make Bletchley the wartime success which it was and, post war, to make it a fitting tribute to those people. We often forget the many support staff, comprising intercept operators, linguists, typists, (many of whom, if memory serves, were akin to cryptanalysts in rendering into readable English, the product that raw intelligence so often produces. Have YOU ever read intercept operators initial report? HA!!!

I must also mention in conjunction with the present day Colossus, the late Doctor Tony Sale, who contributed so much to make The Park the fitting tribute which it has become. Toward the end of the tour, following many interesting exhibits which cover a whole range of intelligence and SIGINT activities is a very interesting and educational exhibition put on by RSGB, who were also there in person to answer any questions which visitors may have.

All in all, a GREAT day out! Icing on the cake (no pun intended!) was a delicious meal for which Paul picked up the tab! Shukri Effendi! You are a river to your people!

Back into London via our previous transport providers, and a stop at a hostelry opposite the rail station. I heartily recommend this to all! Thornton Heath, Weather spoon's pub, the 'Flora Sandes' by name.

Friendly and enjoyable! Well, do YOU know a boozer in sight of Crystal Palace where you can get a pint of Stella for £2—60p.

My thanks to Paul and his family for an excellent weekend, great food, and a place to lay my weary head! [*We have 5 bedrooms and made sure he went into the one on the third floor!*]

In conclusion, two thoughts: First, as I remarked to Paul; Had the Park been an American project and in US care, one would have no problem ensuring the care of the site and upkeep of the legacy which these marvellous men and women have left us. Money would be, quite literally, no object.

Second, although the perceived wisdom had it that all Colossi were destroyed, together with their plans and circuit schematics post war, I have long thought that this was not so. British Army service consolidated this belief, although I NEVER saw one of the beasts. It has now transpired that at least two were kept operational.

Source is private conversations and Discovery Channel research. This leads us to think that at least two remained in service. Well, if YOU had a device which had just helped you win a 6 year war, you would naturally smash it to pieces. Wouldn't you? Till next time-----HJH.July 2012.

[*Not if with a little forward thinking you were aware the Russian War Machine was picking up Geheimschreiber for its own use in peacetime and Colossus could, indeed crack it but then a war weary world is an excellent receptacle for the best deception tool of all B³ better explained as bullshit baffles brains*].

Thanks 499, excellent piece.

German Branch Report

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

Hallo liebe Freunde und Kollegen der deutschen Branche und des X06 Teams (Hello dear friends and colleagues of the German Branch and X06 team)

This time we have again news from both E2Kde and X06.

Forum splitting

In August, the forum of the "Geheime Welten" (secret worlds), which was also known as sigint-group.org, has been splitted. Now the "Geheime Welten" (www.geheime-welten.de) only brings news about other secrets like urban, old buildings, castles etc. The radio and shortwave forum, where also the numbers group belongs to, you can now only reach via <http://www.sigint-group.org>. So for E2K/de and all the other sigint, espionage, radio and shortwave fans only this link is interesting.

E2Kde meeting in Marburg

Our last meeting in Erfurt on April 23rd 2011 is more than a year ago. There some people said, they wish to reach out the next meeting in Marburg at my home. This will happen on Saturday, October 6th this year. Many friends from the German Branch are invited, and I will do the same to you on the E2K group. So if somebody has the time to travel to Marburg, please let us know – the best way will be via group.

Of course, I'll keep the group posted about more details like the exact time (in UTC and CET) and other activities which are planned. We all would be glad, if you join our 4th official E2Kde numbers meeting in Marburg, Ockershauser Allee 17 (D-35037 Marburg, Germany).

And now we come again to the X06 section, cause as expected, Mazielka came back and was more often logged in July/August:

X06 Mazielka (1C) logs section

Date	Day	UTC	Freq	Scale	Monitor	Comments
20120626	Tue	1016-1020	13510	612534	Peter/UK	Fair, M449
20120704	Wed	0919-1150	14377	432516	Peter	Very weak and long, M450
20120704	Wed	1046-1050	14631	362154	Peter	M451
20120720	Fri	0818-0820	14570	324615	Peter	Weak, M452
20120720	Fri	0939-0942	16103	645321	Peter	Fair, M453
20120720	Fri	0955-0958	12215	361245	Peter	Very good, M454
20120720	Fri	1024-1030	14824	625413	Peter	Poor, M455
20120720	Fri	1411-1418	14650	215346	Peter	Good, M456
20120725	Wed	0755-0757	13419	465132	Peter	Very strong, M457
20120725	Wed	0804-0811	11483	412356	Peter	Fair, M458
20120725	Wed	0852-0855	16116	134265	Peter	Very strong, M459
20120725	Wed	0853-0950	10815	412356	Fritz/CH	Alert type 3.1 I. p., G
20120725	Wed	0910-0915	9061	412356	Peter	3.2 Fair, M460
20120725	Wed	0916-0918	11483	412356	Peter	3.3 Strong, M461
20120725	Wed	1531-1536	11483	412356	Peter	Very strong, G
20120726	Thu	0754-0757	14419	521634	Peter	Good, M462
20120726	Thu	1046-1051	13506	164532	Peter	Good, M463
20120726	Thu	1514-1518	14440	564213	Peter	Strong carrier, weak USB sig, M464
20120727	Fri	0704-0708	14450	123456	RNGB	X06c i. p.
20120727	Fri	0746	9288	356412	Peter	Fair, M465
20120727	Fri	0750-0757	12213	615243	Peter	Fair, M466*
20120727	Fri	0801-0809	16153	153624	Peter	Fair, M467

20120801 Wed 1002-1005 18346 214356 Peter Fair, M468
 20120802 Thu 0700-0706 16277 436512 Peter Good, M469
 20120802 Thu 0731-0736 15973 162543 Peter Fair, M470
 20120802 Thu 1225-1228 16132 352416 Peter Good, M471
 20120803 Fri 0646-0648 16320 241563 Peter Good, M472
 20120803 Fri 0956-1000 14501 361245 Peter Very strong, M473
 20120806 Mon 1533-1536 12199 532614 Linkz,Peter Very strong signal & QRM, M474
 20120807 Tue 0755-0758 12157 165423 Peter Very strong, M475
 20120807 Tue 0940-0941 18206 246531 Linkz/FR Alert 2.1 Strong signal/QRM, M476
 20120807 Tue 0942-0946 17421 246531 Linkz,Peter 2.2 Fair to very strong, M477
 20120808 Wed 0724-0727 16045 435621 Peter Weak, M478
 20120808 Wed 0750-0751 13419 465132 Peter Fair, M479
 20120808 Wed 0820-0823 10814 412356 Linkz,Peter Fair, M480
 20120808 Wed 0901-0903 16115 134265 Peter Fair, M481
 20120809 Thu 0731-0735 9388 561243 Peter Good, M482
 20120809 Thu 0935-0937 16223 164532 Peter Good, M483
 20120810 Fri 0755-0803 10653 356412 Peter Good, M484
 20120810 Fri 0803-0810 12213 615243 Peter Fair to very weak, M485
 20120810 Fri 0806-0810 16153 153624 Peter Fair to very weak, M486
 20120819 Sun 1600-1602 13388 1----- Kopf Strong X06b with break
 20120819 Sun 1620-1622 13388 1----- Kopf X06b with single tone and break
 20120819 Sun 1630-1633 13388 1----- Kopf Strong comeback without break
 20120827 Mon 0937-0940 10372 431625 Hans/NO Weak, some QSB, M487
 20120827 Mon 0957-1001 13517 463125 Hans Fair/strong, M488

- * Began 0749 with "614253" (error).

Nice stuff again as usual – thanks to the contributors. Next time there will be more. Till then "Auf Wiedersehen" and „Good-bye"

Jochen Schäfer, KopfE2Kde and X06 Teamkopf

MORSE STATIONS

M51a New Designation

M51a is assigned. Effective 18 August 2012. Letter variant of M51.

French text, 5 ltr grps & numbers. Regular scheds on 3881//6825kHz. Using call-sign FAV22.

Up until now the designation M51 has covered several types of CW transmissions, believed to be emanating from France, the main part of which has consisted of 5 letter groups transmitted at seemingly random times for long periods, using an equally random choice of frequencies. Transmissions start and stop without any form of identification or use of start / finish sequences or characters. These transmissions will continue to be designated M51.

This is in contrast to the very formal, scheduled and ordered transmissions that are transmitted under the call-sign FAV22, believed to be allocated to the French army at Mont-Valerien, Paris - these have now been designated as M51a.

FAV22 transmits Morse in several formats, divided into lessons for Morse code instruction and training.

Freqs: 3881//6825kHz

Time Schedule:	<u>Mon - Fri</u>	<u>Sat</u>	<u>Sun</u>
	0830 - 0900z	0830 - 0900z	0655z
	1130 - 1200z	1130 - 1200z	0820z

Speed:	Day:	<u>Mon</u>	<u>Tue</u>	<u>Wed</u>	<u>Thu</u>	<u>Fri</u>	<u>Sat</u>	<u>Sun</u>	
	Grps per hour:	420	600	720	840	960	840*	400*	(0655z)
								600/1200*	(0820z)

* Speeds used on day monitored - may vary.

Format:	VVV VVV VVV DE FAV22 FAV22 FAV22 QLH 3881/6825kHz (R4)	(QLH - Simultaneous keying on ...freq & freq)
	Vitesse annonces legerement superieures	(Speed announcements slightly higher)
	Lecon xx-x/x Vitesse xxx Codé (or Clair) BT	(Lesson No. Speed Code (or Clear))

The start sequence is always sent in slow CW up to the start of the lesson number, where the speed will change to that scheduled for the day, which increases in speed over the week.

Then will follow exercises in CW. Several lessons may be sent in one session.

Where Codé is sent this will consist mainly of 5 letter groups with some 5 figure groups and occasional punctuation characters mixed in. Ending AR

Where Clair is sent this will consist of French text, usually formal as from a text book (complete with accented letters). Ending AR.

At the end of the transmission (which may under or overrun the 30 min schedule by a few minutes), the following ID sequence is sent once;

CQ DE FAV22 VA

It does not appear that the output of FAV22 is of any interest to ENIGMA 2000 (except for the excellent Morse practise it provides - sharpen your pencils!). However the M51 output and any other transmissions, some of which are heard on these allocated frequencies, may be worth looking at more closely.

What is puzzling is that a station operating so formally should have such a wild and random sister station, apparently being operated by the same organisation, or at least from the same transmitters.

If you would like to know more about FAV22 and the history of the French networks I can highly recommend reading Fritz Nusser's page on his 'Fascinating Shortwaves' website.

<http://www.astrosol.ch/53790397a40a2bb01/53790397a40a33d07/index.html>

Although I have arrived at the above by personal monitoring, the information on Fritz Nusser's page was of tremendous help in the compiling of this article. Thanks also to PLdn and GD for their help and logs on FAV22 that led to me taking a closer look at this station.

Brian Rogers - S.E. England

Morse Logs

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.

A very good selection of logs have been received for this period - many thanks to all of you who have submitted logs and reports, these are very much appreciated.

Unidentified CW (UNID)

We start with a strange log from Marco (DLBB) heard late evening on Wednesday 15 Aug.

4807	2107z	15 Aug	Unidentified CW	Long Zero	DLBB	WED
			-0000 00003 00006 40010 00005			
			00006 50014 00006 00006 40013			
			00102 00006 40010 00001 00612			
			40010 00002 00612 50011 00005			
			00612 60017 00006 00612 50016			
			00102 00612 50011 AR -			

It was thought to be likely military Ops, possibly special forces. There was a similarity to several old and inactive ENIGMA designations, but given the lack of detail available it was difficult to pin this one down.

The station was heard again on Friday 17 Aug, and this time we were lucky enough to catch the identity of our mystery CW station.

4807	2138 (IP) – 2145z	17 Aug	CW 5f grps	Long Zero	Weak into S.E. England	BR	FRI
	2138z		5f grps consisting mainly zeros (long)	Ending 2140z with AR			
	2142z		RLO RLO RLO DE RIT RIT QTC	438 0133			

Followed by type of 5f grps, ending 2145z with AR

RIT is the call-sign of the Russian Navy at Vaygach. So these msgs originate from them. Further monitoring appears to show that this is a regular broadcast from RIT starting at 2100z daily.

Another UNID signal, this time from Fritz (FN) heard on Fri evening, 24 August;

4900.2	1910z	24 Aug	UNID CW	[Repeating: vvv vvv test test de ANT ANT ANT k]	FN	FRI
--------	-------	--------	---------	---	----	-----

(According to the International Call-sign Allocation List this sequence falls within a series allocated to Spain. However, there is no evidence that Spain has ever used this allocation - preferring the Exx set of letters. So most likely a strategic or bogus call-sign).

Regular Logs

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

July 2012:

4905	2000z	03 Jul	'025' 604 30 ==	18733...	...LG 79329 == Strong, fast. Errors grps17 - 19	BR	TUE
	2000z	05 Jul	'025' 710 30 ==	78866...	...LG 29123 == Strong, med-fast	BR	THU
	2000z	10 Jul	'025' 820 30 ==	46815...	...LG 48089 == Good, med-fast	BR	TUE
	2000z	12 Jul	'025' 913 30 ==	95942...	...LG 31956 == Good, med-fast	BR	THU
	2000z	17 Jul	'025' 660 30 ==	60713...	...LG 56776 == Strong, fast. Error grp08	BR	TUE
	2000z	19 Jul	'025' 002 30 ==	44063...	...LG 05776 == Good, fast. Excellent CW	BR	THU
	2000z	24 Jul	'025' 607 30 ==	68041...	...LG 00117 == Strong, fast, (slow grps05 - 12). Error grp06	BR	TUE
	2000z	26 Jul	'025' 280 30 ==	45631...	...LG 07745 == Strong, v.fast. Multiple errors. 32 grps sent	BR	THU
	2000z	31 Jul	'025' 713 30 ==	42275...	...LG 71087 == Strong, fast. Starting DK sent as 713 513	BR	TUE
5280	1800z	03 Jul	'025' 305 30 ==	.....	...LG 42533 == Weak, fast. Poor copy	BR	TUE
	1800z	05 Jul	'025' 218 30 ==	10692...	...LG 71838 == Weak, med-fast	BR	THU
	1800z	10 Jul		NRH		BR	TUE
	1800z	12 Jul		NRH		BR	THU
	1800z	17 Jul	'025' 448 30 ==	81356...	...LG 30448 == Good, fast	BR	TUE
	1800z	19 Jul	'025' 513 30 ==	.....	...LG 15967 == Weak, fast. Poor copy	BR	THU
	1800z	24 Jul	'025' 793 30 ==	80797...	...LG 92826 == Good, fast. Error grp14	BR	TUE
	1800z	26 Jul	'025' 345 30 ==	91380...	...LG 03007 == Good, V.fast. Error grp18	BR	THU
	1800z	31 Jul	'025' 621 30 ==	83789...	...LG 91973 == Good, fast.	BR	TUE

6435	1500z	07 Jul	'025'	Very weak sig. No useful copy	BR	SAT
	1500z	14 Jul	'025'	Very weak sig. No useful copy	BR	SAT
	1500z	28Jul	'025' 512 30 ==	759157... ...LG 22244 == Weak, med-fast	BR	SAT
6780	0700z	01 Jul		NRH	BR	SUN
	0700z	08 Jul	'025' 117 30 ==	02487... ...LG 5 . 755 == Weak, fast. Poor copy	BR	SUN
	0700z	15 Jul	'025' 411 30 ==	55035... ...LG 48500 == Fair, fast	BR	SUN
	0700z	22 Jul	'025' 999 30 ==	90409... ...LG 92114 Fair, fast. Error grp18, == missing at EOM	BR	SUN
	0700z	29 Jul	'025' 990 30 ==	61979... ...LG 88377 == Nice solid signal, no mistakes	RNGB	SUN

4905kHz 2000z 10 July12 (Paired grps)

025 (R4) 820 820 30 30 ==

46815 61750 49879 93351 21629
87713 86864 02987 00590 30198
43987 01325 11112 47474 09098
56756 22112 44554 89897 00009
12345 15595 48913 53289 56387
09864 16432 50119 85067 48089
== 820 820 30 30 0 0 0

Courtesy BR

August 2012:

4905	2000z	02 Aug		NRH	BR	THU
	2000z	07 Aug	'025' 456 30 ==	01578... ...LG 12801 == Strong, med-fast. Numerous errors	BR	TUE
	2000z	09 Aug	'025' 713 30 ==	47248... ...LG 27079 == Strong, fast but erratic with errors	BR	THU
	2000z	14 Aug	'025' 610 30 ==	05324... ...LG 36663 == Strong, V.fast. No errors	BR	TUE
	2000z	16 Aug	'025' 223 30 ==	26058... ...LG 01214 == Strong, fast	BR	THU
	2000z	21 Aug	'025' 576 30 ==	99797... ...LG 08504 == Strong, slow. Multiple errors noted.	BR	TUE
	2000z	23 Aug	'025' 137 30 ==	47090... ...LG 75559 == Strong, fast. Multiple errors noted.	BR	THU
	2000z	28 Aug	'025' 794 30 ==	79210... ...LG 38595 == Strong, slow. With errors .	BR	TUE
5280	1800z	02 Aug	'025' 150 30 ==	Very weak sig. No useful copy	BR	THU
	1800z	07 Aug	'025' 293 30 ==	88062... Weak sig, deteriorated to no copy by 1807z	BR	TUE
	1800z	09 Aug	'025' 515 30 ==	98196... ...LG 38514 == Strong, fast but erratic. Error on grp21	BR	THU
	1800z	14 Aug	'025' 840 30 ==	08985... ...LG 43366 == Good, V.fast. Multiple errors noted.	BR	TUE
	1800z	16 Aug	'025' 119 30 ==	41998... ...LG 21738 == Good with QSB, fast	BR	THU
	1800z	21 Aug	'025' 974 30 ==	90636... ...LG 36356 == Strong, slow	BR	TUE
	1800z	23 Aug	'025' 748 30 ==	83336... ...LG 46441 == Strong, V.fast	BR	THU
	1800z	28 Aug	'025' 976 30 ==	66171... ...LG 65762 == Good, slow	BR	TUE
6435	1500z	11 Aug	'025' 459 30 ==	98863... ...LG 97349 == Fair, V.Fast. Poor copy	BR	SAT
	1500z	25 Aug		NRH	BR	SAT
6780	0700z	05 Aug	'025' 517 30 ==	40758 08506 41599 86603 88244.....99415. grp21 sent once only	RNGB	SUN
	0700z	12 Aug	'025' 381 30 ==	24695... ...LG 18489 == Fair, fast. Errors in grps 09 & 23	BR	SUN
	0700z	19 Aug	'025' 395 30 ==	78697... ...LG 00963 == Strong, fast. Restarted after six grps.	BR	SUN

We are used to errors on the M01 regular transmissions which are believed to be training msgs for the station, however, this one was unusual even by their standards. BR reports;

The 19 Aug Sunday transmission started with the (now common), alternative preamble (395 30 == 395 30 ==), and sent the first six grps with multiple uncorrected errors before sending an error character. After a long pause the station restarted using a short call-up followed by the normal preamble (395 395 30 30 ==) before sending a faultless transmission. Was this planned or did another Op. take over the key?

0700z	26 Aug	'025' 212 30 ==	85257... ...LG 12814 == Strong, fast. Error on grp01	BR	SUN
-------	--------	-----------------	--	----	-----

M01a (formerly end of month TXs, now random)

No Reports

M01b

July 2012:

5125	1830z (IP)	09 Jul	(In progress) 7980, 7310 30.... 27900 13399 29928 (BT)	Tillmann	MON
5475	1915z	23 Jul	'858' 326 326 30 30 ==	GD	MON
5735	1810z	23 Jul	'364' 326 326 30 30 ==	GD	MON

August 2012:

5075//5465	1903z	17 Aug	'467' 326 30 = 72964 42084... 1919z Strong / (Used wrong ID !!)	Hans /RNGB	FRI
5095	1832z	09 Aug	'815' 326 326 30 30 ==	GD	THU
5096	1849z (IP)	16 Aug	Ends 326 326 30 30 000 Very strong signal in Herne, West Germany	Jeanmo	THU
5340	2010z	17 Aug	'467' 326 30 = 72964 42084 etc	RNGB	FRI
5465	1902z	17 Aug	'467' 326 30 = 62964 42084 15030 52381.....	RNGB	FRI

5805	1942z	09 Aug	'936' 326 326 30 30 = =	GD	THU
5940	1505z	16 Aug	'159' Rest U/R	GD	THU

M01c
No reports

M03 III ICW, some CW

6524	1535z	03 Jul	798/00	HFD	TUE
	1535z	04 Aug	798/00 == 0 0 0	FN	SAT
	1535z	28 Aug	798/00 Fair	Hans	TUE
7727	1320z	11 Jul	543/00	RNGB	WED
	1320z	25 Jul	548/38 = 27863 24036...	FN	WED
	1320z	27 Aug	540/34 = 78895 37238 85819 93486.....	RNGB	MON
7837	1320z	05 Aug	435/30 ... Strong with fading	DLBB	SUN
	1320z	26 Aug	437/00 1323z Fair	Hans	SUN

M03c (Stutter groups)
No reports

M03d
No reports

M03e
No reports

M08a XVIII ICW / CW, some MCW

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

This time in addition to our regular contributors, new member Graydogs (Ggs) has supplied us with a good selection of the M08a logs that we just can't hear most of the time here in Europe. Thanks Graydogs, and welcome to E2k.

July 2012:

5398	0505z	23 Jul	QRN5 End ukn	Ggs	MON
5800	0600z	12 Jul	QRN4. End 0634z	Ggs	THU
	0600z	15 Jul	Fair cond. End 0632z	Ggs	SUN
	0600z	16 Jul	End ukn	Ggs	MON

Graydogs writes; *Parked on 5898kHz @ 0450z waiting for M08a's 0500 xmit. At 0456z two characters were sent (CW) very clear and third distorted when xmit was stopped abruptly. They were AN? (123 perhaps?) Actual xmit didn't start until 0505z. During this time there was a loud and clear tone as if a transmitter was being tuned to the freq. I had to move down to 5.895kHz in order to copy the message. Therefore posting as follows;*

5895	0500z	22 Jul	QRM5 End 0539z (M08a Abnormality)	Ggs	SUN
5898	0500z	02 Jul	[87871 01201 76141] Weak	PLdn	MON
	0500z	06 Jul	[65712 41651 52481] Strong signal but qrm5 splashed by Bro. Stair	Ggs	FRI
	0500z	08 Jul	QRM5 FN 0539z Severe QRM from Bro Stair	Ggs	SUN
	0505z	08 Jul	[73762 84402 07831] Fair, straight into msg, no call up AUTOINTERCEPT	PLdn	SUN
	0500z	09 Jul	Fair, end 0534z First msg was garbled again by Bro. Stair's preaching. <i>First msg ended with WIUDA X5 (57431 x5). Second msg ended with RAGWN x5.</i>	Ggs	MON
	0504z	09 Jul	[46701 57431 61852] Fair AUTOINTERCEPT	PLdn	MON
	0500z	10 Jul	NRH Band checked, condx good. Off watch 0515z	PLdn	TUE
	0500z	12 Jul	QRM5. End 0534 Religious program covered the signal.	Ggs	THU
	0500z	13 Jul	QRM5 End 0534z Again covered by religious programming.	Ggs	SAT
	05??z	14 Jul	QRM5 End 0554z Religious programming again on 9858 made copy hard	Ggs	SUN
	0500z	14 Jul	[41022] 1st grp only, Weak, barely readable AUTOINTERCEPT	PLdn	SAT
	0501z	16 Jul	[88252 08802 12222]	Ggs/PLdn	MON
	0500z	21 Jul	[50332 62172 75501] Weak	PLdn	SAT
	0505z	22 Jul	[33621 54451 67782] Fair	PLdn	SUN
	0504z	23 Jul	[Straight into groups; grps 1-3: 04762 75286 44686] Fair	PLdn	MON
	0500z	27 Jul	[62781 67890 12345] QRM5 End unk Note the sequential numbers	Ggs	FRI
	0500z	28 Jul	[45672 56322 60641] QRM4 End 0534z Bro. Stair doing his best to jam my spy.	Ggs	SAT
	0505z	29 Jul	[57452 68182 82521 LG not readable] ARARAR SK 0540z Fair, , QSB3 with LOS 0512 to 0513z	PLdn	SUN
	0500z	30 Jul	[23771 44412 57841] Fair, QSB2 End 0534z	Ggs/PLdn	MON
6785	1900z	18 Jul	QRN5 Very weak End uk	Ggs	WED
	1900z	19 Jul	QRN5 End 1933z	Ggs	THU
	1900z	30 Jul	Strong	kym	MON
6854	2200z	11 Jul	Weak, End 2233z	Ggs	WED
	2200z	18 Jul	QRN4 End 2234z	Ggs	WED
	2200z	19 Jul	[55161 72822 68481] QSA4 QRN4	HT	THU
	2200z	19 Jul	[55161 68841 72822] Good copy End 2234z	Ggs	THU
6932	2100z	19 Jul	QRN5 End 2133z	Ggs	THU
7226	2200z	10 Jul	QRN5 End ukn Deep in the dirt. Completely lost him 2223z.	Ggs	TUE
	2200z	10 Jul	[04731 17152 21581] QRN3 End ukn	Ggs	TUE
7319	1000z	23 Jul	QRM3 End unk	Ggs	MON
	1000z	30 Jul	QRN5 End ukn	Ggs	MON
	1000z	30 Jul	QRN5 End ukn	Ggs	MON

7519	2159z	20 Jul	[87582 11821 24352] End 2227z	Ggs/HT	FRI
	2200z	23 Jul	[22852 ????? ????] QRN4 End 2227z	Ggs	MON
	2200z	30 Jul	[72212 80632 13061] QRN3 End 2227z Repeated at 2300z	Ggs	MON
7526	2200z	31 Jul	[74682 87122 01441] QRN4 End 2227z Repeat at 2300 on 8135kHz	Ggs	TUE
7554	2000z	09 Jul	QRN4 End 2033z Very weak signal.	Ggs/kym	MON
	2000z	11 Jul	Weak, End 2034z	Ggs	WED
	2020z (IP)	13 Jul	End 2034z	Ggs	FRI
	2000z	19 Jul	[???? 23362 36601] QRN3 End 2033z	Ggs	THU
	2000z	19 Jul	[In progress, 34561] QSA 4	HT	THU
	2000z	26 Jul	Weak	kym	THU
7579	1300z	12 Jul	Strong. End 1334z	Ggs	THU
	1300z	19 Jul	[17711 21242 34561] QSA0 THU (Bird in background)	HT	THU
	1300z	20 Jul	[84471 15211 28532] QSA5	HT	FRI
	1300z	23 Jul	[48051 62481 73121] QRN3 End 1334z	Ggs	MON
	1300z	30 Jul	[28431 32752 45181] QRN4 End 1334z	Ggs	MON
	1300z	30 Jul	[28431 32752 45181] QRN3 End 1334z Repeated at 1400z	Ggs	MON
	1300z	31 Jul	[58721 72152 85471] QSA2	HT	TUE
8009	2300z	04 Jul	END 2327z	Ggs	WED
	2300z	09 Jul	WDUWA x 5 (53451) and RRGGN x 5 (66882). Weak End 2327z	Ggs	MON

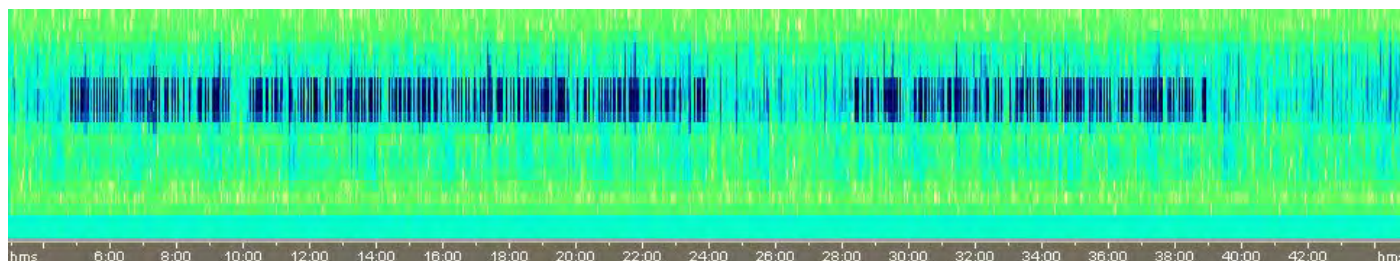
Graydogs notes; *In addition there was a series of data bursts that started about 15 secs. after end of msg followed by one long data burst. the whole data burst event caught me by surprise and I didn't count the bursts.*

	2200z	19 Jul	[73322 86641 60081] QSA4	HT	THU
	2200z	19 Jul	[60081 73322 86641] Good copy End 2227z	Ggs	THU
	2300z	23 Jul	QRN5 End ?	Ggs	MON
8095	1400z	12Jul	Strong	kym	THU
8096	1400z	10 Jul	[81732 11161 23482] Fair	kym	TUE
	1400z	11 Jul	Fair. End 1434z	Ggs	WED
	1900z	11 Jul	[58281 72821 85242] Fair	kym	WED
	1400z	12 Jul	Fair, End 1434z	Ggs	THU
	1401z	16 Jul	QRN5 Lost Sig 1429z	Ggs	MON
	1400z	17 Jul	QRN5 End uk	Ggs	TUE
	1400z	18 Jul	QRN3 End 1432z	Ggs	WED
	1400z	20 Jul	[84471 15211 28532] QSA4	HT	FRI
	1400z	23 Jul	[48051 62481 73121] QRN5 End 1434z (Rpt of 7579kHz 1300z)	Ggs	MON
	1400z	31 Jul	[58721 72152 85471] QSA1 QSB3	HT	TUE
8097	1800z	09 Jul	Very Weak. End UKN	Ggs	MON
	1800z	13 Jul	Not scheduled but test carrier is on	kym	FRI
	1900z	13 Jul	Fair	kym	FRI
	1400z	19 Jul	[17711 21242 34561] QSA0 QSB4	HT	THU
	1800z	20 Jul	[72361 85682 08121] QSA1, QSB4	HT	FRI
	1900z	20 Jul	[63202 86531 50871] QSA1, QSB4	HT	FRI
	1900z	23 Jul	[60322 73642 56081] QRN4	Ggs	MON
	1900z	30 Jul	Weak	kym	MON
8135	2300z	12 Jul	Good / Strong. End 2327z	Ggs/kym	THU
	2300z	19 Jul	[60081 73322 86641] Good copy End 2327z (Rpt of 8009kHz 2200z)	Ggs	THU
	2259z	20 Jul	[87582 11821 24352] End 2327z (Rpt of 7519kHz 2200z)	Ggs/HT	FRI
9097	1900z	18 Jul	QRN4 Very weak End uk	Ggs	WED
9112	0959z	22 Jul	[68572 72801 85230] QSA1	HT	SUN
10432	0900z	06 Jul	Weak QRN1 In progress	Ggs	FRI
	0900z	08 Jul	QRM4 End 0934z Sharing freq. with RTTY station. RTTY ended 4mins after M8a	Ggs	SUN
10445	0300z	12 Jul	Strong. End 0334z	Ggs	THU
	0300z	26 Jul	[24462 37781 41222] End 0334z	Ggs	THU
11565	0400z	12 Jul	QRN5. End 0434Z Bad QRN and QRM over a weak signal	Ggs	THU

August 2012:

5800	0600z	05 Aug	[00231 01071 24302] QRN2 End 0634	Ggs	SUN
	0600z	16 Aug	[66342 53021 31271] End 0634z	Ggs	THU
	0600z	21 Aug	[00601 11431 24762] Sudden stop in Transmission for 60secs at 0615z End 0634z	Ggs	TUE
5898	0505z	03 Aug	[40221 62061 75381] Fair	PLdn	FRI

PLdn writes; *Checking my autfiles I find there is a five minute break between message one and message two; this is the second time this has happened except the first seen on 29 July lasted just a minute.*



0505z 03 Aug

Entire spectral image of transmission showing 5min gap between msgs

Courtesy PLdn

0503z 04 Aug [03813 5144n (76220)] Unsure of last group. Weak and noisy in UK, started just before message Ggs/PLdn SAT
Graydogs reports; *Came on late in full stride already in message. At 0522z suddenly drops off air. Remains quite for one min and reappears at 0523z.*

0503z 05 Aug [ANDUWRIGMT **1234567890**] Fair, QRM2 QSB2 Poor Cond PLdn SUN
0500z 06 Aug [12732 44462 57881] QRN4 End 0534z Ggs MON
0532z 06 Aug [Last grp: 76473 ARARAR SK] Fair. (Start missed due to power failure at remote autosystem) PLdn MON
0500z 09 Aug [40561 51301 64632] QRN4 / Fair, QSB2 End 0534z Ggs/PLdn THU
0500z 11 Aug [78512 50342 02072] Fair,QSB2 Ggs/PLdn SAT
0505z 12 Aug [44532 64662 77802] Fair, QRM2 QSB2 PLdn SUN
0501z 13 Aug [63712 83751 87772] Fair, QSB3 PLdn MON
0507z 16 Aug [**98 45666 6E** 55457 06134 42125] late start, **uknwn ltr values-meteo METAR?** Then into msg? PLdn THU
0500z 16 Aug [???? 53021 66342] Heavy QRM first 5 min. then clear. End 0534z Ggs THU
0502z 17 Aug [**12345 67890 12345**] Fair PLdn FRI
0500z 18 Aug [40711 50742 71582] End unk / Fair Ggs/PLdn SAT
0505z 19 Aug [38111 58152 61581] End 0539z / Fair Ggs/PLdn SUN
0500z 20 Aug [45531 66261 70482] Fair PLdn MON
0500z 23 Aug [41182 62722 75641] Fair, QSB3 PLdn THU
0504z 24 Aug [15561 26301 30632] Came on early, sent **12345 67890** then silent until 0504z. End 0539z Ggs FRI
0502z 25 Aug [73502 04232 17652 LG34038 ARARAR SK] 0534z Strong, QSB2 Ggs/PLdn SAT
0500z 27 Aug [67461 70201 83532 LG00367 ARARAR SK] 0534z Fair, QRM2 QSB2 (34m22s) Ggs/PLdn MON
0500z 30 Aug [08002 35751 48182] End 0534z Dropped out during intro & in and out during all three messages Ggs THU
Transmitter would suddenly drop out for up to three minutes before reappearing as if nothing happened. At 0518z suddenly stopped and reappeared at 0522z. Lately this has happened every other day or so.

6785 1900z 03 Aug QRN5 End ukn Ggs FRI
1900z 06 Aug QRN5 End ukn Buried in QRN. Ggs MON
1900z 15 Aug QRN5 End 1934z Ggs WED

6854 2200z 01 Aug [25112 31132 14372] QRN4 / QRN4 End 2226z (Simulcast on 7519kHz) Ggs WED
2215z* 15 Aug Switched from 6932kHz until 2234z Ggs WED
2200z 22 Aug QRN5 End 2234z Ggs WED
2200z 29 Aug End 2227z Ggs WED

6932 2100z 01 Aug [40122 26232 30562] QRN3 End 2134z Ggs WED
2100z 02 Aug [08271 22602 35031] QRN3 End 2134z Ggs THU
2200z* 15 Aug From 2200z - 2215z then switches to 6854kHz Ggs WED

* Graydogs writes; *Strange happenings again today. Didn't show up for the 2100z session on 6932kHz. Not much odd about that.*

However at 2200z when he should have been on 6854kHz he popped up on the 2100z frequency instead. (I had left one of the radios on the old freq. so caught him by accident). But, as if he finally realized he was on the wrong freq., at 2215z after he finished the first of the three messages he stopped and went over to the correct freq. of 6854kHz where he finished the last two messages.

At 2304z he pops up on correct freq. of 8009kHz, starts late, and sends just one message ending at 2311z which I believe was the first message he sent on the wrong freq. by accident at 2200z

7320 1000z 06 Aug [35772 48111 52532] MCW, QSA5, QRM5 China Radio International. HT MON
1000z 20 Aug [47832 51261 63582] QSA4 MCW HT MON

7519 2200z 01 Aug [25112 31132 14372] QRN4 / QRN4 End 2226z (Simulcast on 6845kHz) Ggs WED
2216z** 03 Aug (In mid-session) QRN3 end 2227z Ggs FRI
2200z 08 Aug [18122 22441 35772] QRN5 End ukn Ggs WED
2200z 24 Aug [50282 63521 76842] End 2226z Ggs FRI
2200z 29 Aug [56142 60461 72701] End 2234z Ggs WED

7526 2200z 07 Aug [26231 30662 43081] QRN4 End 2227z Ggs TUE
2200z 14 Aug [83451 05772 18112] QRN5 End 2227z Ggs TUE

7554 2000z 01 Aug [68251 72572 85011] QRN4 End ukn Ggs WED
2015z** 03 Aug (In mid-session) QRN4 End 2034z Ggs FRI

**Graydogs writes; *M08a did not show up on 7554kHz for the 2000z (03 Aug) session. Didn't think much of it but left radios on in case it started late. Around 2015z he popped on the air in the middle of the session. I would have blamed it on my radio except I had two radios parked on that frequency.*

There was no 2100z session but when it came time for the 2200z session the same thing happened. This time he popped up at 2216z in full swing. Again two radios and two decoders (Fldigi & Digital Master) copied the same thing. Back to normal with the 2300z session.

2000z 07 Aug [66621 01251 ?1562] QSA1 QSB5 HT TUE
2000z 15 Aug QRN4 End 2034z Ggs WED
2000z 17 Aug QRN5 End ukn Ggs FRI
2000z 24 Aug End 2034z Ggs FRI

7579	1300z	01 Aug	[07372 11612 34031]	QRN3 End 1334z	Rpt at 1400z	Ggs	WED
	1300z	03 Aug	[03561 37621 47661]	QRN3 End 1334z		Ggs	FRI
	1300z	06 Aug	[38372 42601 64031]	QSA5		HT	MON
	1300z	07 Aug	[70181 83422 06841]	QSA5		HT	TUE
	1300z	21 Aug	[???? 50521 63042]	(session repeated at 1400z)	QRN5 End 1334z		Ggs	TUE
	1300z	24 Aug	End 1332z.	Repeated at 1400z		Ggs	FRI
	1300z	29 Aug	End 1334z			Ggs	WED
	1300z	29 Aug	[87261 01582 14821]	QSA5		HT	WED
8009	2300z	01 Aug	[14372 25112 31132]	QSA 4, QRM 4		HT	WED
	2300z	01 Aug	[25112 31132 14372]	QRN2 End 2326z	(Rpt of 6854kHz, 2200z)	Ggs	WED
	2200z	02 Aug	[08271 22602 35031]	QRN4 End 2234z	(Rpt of 6932kHz, 2100z)	Ggs	THU
	2304z	15 Aug	End 2311z	(* See notes for 6932kHz 15 Aug)		Ggs	WED
	2200z	16 Aug	End ukn			Ggs	THU
	2300z	27 Aug	[62032 74361 07682]	End 2334z		Ggs	MON
8096	1400z	03 Aug	[03561 37621 47661]	QRN3 End 1434z	(Rpt of 7579kHz, 1300z)	Ggs	FRI
	1400z	06 Aug	[38372 42601 64031]	QRN5 End 1434z	Buried in QRN / QSA4	Ggs/HT	MON
	1400z	07 Aug	[70181 83422 06841]	QSA4 QSB3		HT	TUE
	1400z	08 Aug	QRN5 End 1434z			Ggs	WED
	1359z	20 Aug	[22182 35421 47744]	End 1433z		Ggs	MON
8097	1759z	06 Aug	[37331 41652 54181]	QSA1 QSB4		HT	MON
	1900z	22 Aug	QRN5 End 1934z			Ggs	WED
	1800z	24 Aug				Ggs	FRI
8135	2200z	03 Aug	[41631 54052 66782]	QRN3 End 2327z		Ggs	FRI
	2300z	10 Aug	Good copy	End 2327z		Ggs	FRI
	2303z	17 Aug	xmitter problems end or dropped out at 2327z			Ggs	FRI
9112	1000z	12 Aug	End 1034z			Ggs	SUN
9120	1000z	03 Aug	QRN5 End ukn			Ggs	FRI
10445	0300z	02 Aug	QRN4 End 0305z			Ggs	THU

Graydogs notes; M08a started on time but then stopped suddenly after only a few groups. After about 90 sec. transmission picked up again but suddenly stopped at 03:05:32z and never returned. Entire session below.

*2345 67890 1234S7282 <VE>1511 04042 77282 815E ****

(SUDDEN STOP. NO CODE FOR ABOUT 90 SEC.)

282 *** ** ***77282 77282 77282 77282 77282 <BT> <BT> <BT> E *

8276 84605 38531 33124 43801 58584 18307 14601 74232 87270 61185 74523
82628 83325 28050 18522 04804 01614 61773 40206 12528 03460 81147 85S02
25263 30452 00686 40E31 73600 4468S 17815 13201 07556 06565 73807 L29

(SUDDEN STOP @ 03:05:32z)

	0300z	30 Aug	[???? 20511 33042]	End 0234z		Ggs	THU
11565	0400z	01 Aug	QRN3 End 0434z			Ggs	THU
M08c			M08d			
No reports			No reports			

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

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

Fritz (FN) has supplied us with an almost complete set of logs for M12 for this period - Thanks Fritz

July 2012:

6857/7557/---	0430/0450/0510z	02 Jul	850 000		FN	MON
	0430/0450/0510z	09 Jul	850 000	(0450z weak signal, QRM dig. station)	FN	MON
	0430/0450/0510z	16 Jul	850 000	(0450z weak signal)	FN	MON
	0430/0450/0510z	23 Jul	850 000		FN	MON
7984/9184/---	0630/0650/0710z	05 Jul	911 000		FN	THU
	0630/0650/0710z	12 Jul	911 000		FN	THU
	0630/0650/0710z	26 Jul	911 000		FN	THU
8047/6802/5788	1700/20/40z	04 Jul	463 1 (2226 41) 49639...		FN	WED
	1700/20/40z	11 Jul	463 1 (2538 92) 57888...		FN/RNGB	WED
	1700/20/40z	18 Jul	463 1 (8462 56) 44223...		FN	WED
	1700/20/40z	25 Jul	463 1 (1997 73) 55458...		FN	WED

9176/7931/6904	1700/20/40z	02 Jul	257 1 (4236 70)	43644...	FN/HFD	MON
	1800/20/40z	02 Jul	257 1 (7569 66)	30029... (weak signal)	FN	MON
	1900/20/40z	02 Jul	257 1 (1076 81)	25174... (1940z V. strong)	FN	MON
	1700/20/40z	05 Jul	257 1 (4894 79)	96455...	FN	THU
	1900/20/40z	05 Jul	257 1 (7811 53)	81435...	FN	THU
	1700/20/40z	09 Jul	257 1 (9300 72)	54084...	FN	MON
	1800/20/40z	09 Jul	257 1 (8316 69)	28755...	FN	MON
	1900/20/40z	09 Jul	257 1 (6915 46)	72571...	FN	MON
	1900/20/40z	12 Jul	257 1 (4340 60)	44729...	FN	THU
	1700/20/40z	16 Jul	257 1 (5683 79)	77615...	FN	MON
	1800/20/40z	16 Jul	257 1 (1109 40)	33249... (1840z weak signal, strong QRM)	FN	MON
	1900/20/40z	16 Jul	257 1 (5188 94)	00261...	FN	MON
	1700/20/40z	19 Jul	257 1 (4960 60)	77011... (1740z Vy weak signal and QRM	FN	THU
	1900/20/40z	19 Jul	257 1 (5000 54)	64959...	FN	THU
	1700/20/40z	23 Jul	257 1 (1929 80)	00381... (1740z Weak signal, QRM)	FN	MON
	1800/20/40z	23 Jul	257 1 (5556 44)	44971... (1840z Weak signal, QRM)	FN	MON
	1900/20/40z	23 Jul	257 1 (9668 50)	38865...	FN	MON
	1700/20/40z	26 Jul	257 1 (8670 54)	71856...	FN	THU
	1900/20/40z	26 Jul	257 1 (6575 51)	44000... Stops 1905z, repeats intro and then finishes txt	FN	THU
9379/7979/---	2100/20/40z	04 Jul	398 000		FN/HFD	WED
	2100/20/40z	11 Jul	398 000		FN/RNGB	WED
9379/7979/(6879)	2100/20/40z	18 Jul	398 1 (946 119)	84581...	FN	WED
	2100/20/40z	25 Jul	398 000		FN	WED
10343/9264/8116	1830/1850/1910z	04 Jul	124 1 (1733 55)	95573...	FN	WED
	1700/20/40z	05 Jul	124 1 (3865 80)	22353...	FN/HFD	THU
	1800/20/40z	05 Jul	124 1 (2775 72)	12854...	FN	THU
	1800/20/40z	06 Jul	124 1 (9296 77)	55688...	FN	FRI
	1830/1850/1910z	10 Jul	124 1 (4842 64)	62716... (1840z faulty keying after minute 2)	FN	TUE
	1700/20/40z	12 Jul	124 1 (2615 77)	55343...	FN	THU
	1800/20/40z	12 Jul	124 1 (9824 100)	93914...	FN	THU
	1800/20/40z	13 Jul	124 1 (7621 91)	45726...	FN	FRI
	1830/1850/1910z	17 Jul	124 1 (3829 69)	90996...	FN	TUE
	1700/20/40z	19 Jul	124 1 (5132 71)	37190...	FN	THU
	1800/20/40z	19 Jul	124 1 (4698 62)	34584...	FN	THU
	1800/20/40z	20 Jul	124 1 (2566 88)	32194...	FN	FRI
	1700/20/40z	26 Jul	124 1 (3112 73)	95825...	FN	THU
	1800/20/40z	26 Jul	124 1 (2068 55)	87246...	FN	THU
10843/9243/--- 10843/9243/7843	1830/1850/1910z	01 Jul	828 000		FN	SUN
	1830/1850/1910z	04 Jul	828 1 (634 195)	74425...	FN	WED
	1830/1850/1910z	06 Jul	828 1 (634 195)	74425... (Repeat of 4 Jul. 1830z)	FN/RNGB	SUN
	1830/1850/1910z	11 Jul	828 000		FN	WED
	1830/1850/1910z	15 Jul	828 000		FN	SUN
	1830/1850/1910z	18 Jul	828 1 (366 163)	41943... (1830z & 1850z weak signal)	FN	WED
	1830/1850/1910z	22 Jul	828 1 (366 163)	41943... (Repeat of 18 Jul 1830z)	FN	SUN
	1830/1850/1910z	25 Jul	828 1 (876 139)	72327...	FN	WED
11435/10598/9327	1830/1850/1910z	04 Jul	938 1 (5713 52)	20709...	FN	WED
	1830/1850/1910z	11 Jul	938 1 (4137 70)	98781...	FN	WED
	1830/1850/1910z	18 Jul	938 1 (2267 51)	51366... (1910z strong QRM BC)	FN	WED
	1830/1850/1910z	25 Jul	938 1 (5823 59)	27750...	FN	WED
12162/11566/10711	1600/20/40z	02 Jul	546 1 (1347 73)	59468...	FN/HFD	MON
	1600/20/40z	09 Jul	546 1 (7033 84)	62829...	FN	MON
	1600/20/40z	16 Jul	546 1 (3272 80)	89965...	FN	MON
	1600/20/40z	23 Jul	546 1 (3053 95)	57905...	FN	MON
13926/12126/---	1310/30/50z	05 Jul	919 000		HFD	THU
	1310/30/50z	21Jul	919 000	(1330z Weak sig)	FN	SAT
13972/13472/11472	1300/20/40z	02 Jul	944 1 (673 89)	90152...	FN/HFD	MON
	1300/20/40z	09 Jul	944 1 (794 103)	67616...	FN/HFD	MON
	1300/20/40z	16 Jul	944 1 (810 167)	16751... (1340z weak signal)	FN	MON
	1300/20/40z	23 Jul	944 1 (372 309)	61889...	FN	MON
14492/13392/11092	1500/20/40z	04 Jul	944 1 (673 89)	90152... (Repeat of 02 Jul 1300z)	FN	WED
	1500/20/40z	11 Jul	944 1 (794 103)	67616 05090.... (Repeat of 09 Jul 1300z)	FN/RNGB	WED
	1500/20/40z	18 Jul	944 1 (810 167)	16751... (Repeat of 16 Jul 1300z)	FN	WED
	1500/20/40z	25 Jul	944 1 (232 309)	61889... (2nd & 3rd sending start time offset)	FN	WED
14869/13569/12169	2110/30/50z	04 Jul	851 1 (189 167)	28657...	FN	WED
	2110/30/50z	11 Jul	851 000		FN/RNGB	WED
	2110/30/50z	14 Jul	851 000		FN	SAT
	2110/30/50z	18 Jul	851 000		FN	WED
	2110/30/50z	21 Jul	851 000		FN	SAT
	2110/30/50z	25 Jul	851 000		FN	WED

August 2012:

5792/6992/---	0430/0450/0510z 0430/0450/0510z	06 Aug 20 Aug	796 000 796 000		BR FN	MON MON
7484/8184/---	0630/0650/0710z 0630/0650/0710z	02 Aug 23 Aug	402 000 402 000		BR RNGB	THU THU
8047/6802/5788	1700/20/40z 1700/20/40z 1700/20/40z	08 Aug 15 Aug 29 Aug	463 1 (9376 89) 15799... 463 1 (8535 49) 06075... 463 1 (1082 60) 10734...		FN FN FN	WED WED WED
8123/6923/---	2100/20/40z 2100/20/40z 2100/20/40z	08 Aug 15 Aug 22 Aug	198 000 198 000 198 000		FN FN/RNGB FN	WED WED WED
9176/7931/6904	1700/20/40z 1800/20/40z 1900/20/40z 1700/20/40z 1900/20/40z 1700/20/40z 1800/20/40z 1900/20/40z 1700/20/40z 1900/20/40z 1700/20/40z 1800/20/40z 1900/20/40z 1700/20/40z 1800/20/40z 1900/20/40z 1700/20/40z 1800/20/40z 1900/20/40z	06 Aug 06 Aug 06 Aug 09 Aug 09 Aug 13 Aug 13 Aug 13 Aug 16 Aug 16 Aug 20 Aug 20 Aug 20 Aug 20 Aug 23 Aug 27 Aug 27 Aug 27 Aug	257 1 (9894 76) 04192... 257 1 (3979 46) 37654... 257 1 (1258 60) 80168... 257 1 (7161 66) 10701... (1740z heavy QRM dig. station) 257 1 (4829 50) 17094... 257 1 (1946 72) 90024... 257 1 (7834 54) 17016... 257 1 (9144 87) 31480... 257 1 (1757 46) 08779 257 1 (8690 38) 71565... 257 1 (3584 74) 91076... 257 1 (5969 60) 96137... 257 1 (4096 81) 25821... 257 1 (7216 66) 29298... 257 1 (2616 77) 55656... (1700z call up garbled) 257 1 (7056 63) 01877... 257 1 (9714 48) 93071...		FN FN FN FN FN FN FN FN FN/Jeanmo FN FN FN FN FN FN FN FN FN	MON MON MON THU THU MON MON MON THU THU MON MON THU MON MON MON
10343/9264/8116	1800/20/40z 1830/1850/1910z 1700/20/40z 1800/20/40z 1800/20/40z 1700/20/40z 1800/20/40z 1800/20/40z 1830/1850/1910z 1800/20/40z 1800/20/40z 1830z	03 Aug 07 Aug 09 Aug 09 Aug 10 Aug 16 Aug 16 Aug 17 Aug 21 Aug 23 Aug 24 Aug 28/8	124 1 (2287 85) 83970... 124 1 (9488 70) 13946... 124 1 (3738 72) 34286... 124 1 (3782 75) 25863... 124 1 (5676 900) 73051... 124 1 (2051 77) 63253... 124 1 (9731 54) 79654 124 1 (3168 88) 35915 56697 ... 82964 1847z Strong 124 1 (2433 57) 89086... 124 1 (3821 55) 34467... 124 1 (1677 84) 59779... 124 1 (1708 54) 41253 15237.... 1835z Strong		FN FN FN FN FN FN FN/Jeanmo FN/Hans FN FN FN Hans	FRI TUE THU THU FRI THU THU FRI TUE THU FRI TUE
11435/10598/9327	1830/1850/1910z 1830/1850/1910z 1830/1850/1910z 1830/1850/1910z	08 Aug 15 Aug 22 Aug 29 Aug	938 1 (2959 55) 77901... 938 1 (1730 68) 67268... 1830z all is repeated after an interruption 938 1 (9047 64) 78014... 938 1 (4284 60) 70860...		FN FN FN FN	WED WED WED WED
12162/11566/10711	1600/20/40z 1600/20/40z 1600/20/40z 1600/20/40z	06 Aug 13 Aug 20 Aug 27 Aug	546 1 (6225 81) 54784... 546 1 (7972 83) 15452... 546 1 (6678 80) 71552... 546 1 (9074 86) 75241...		FN FN FN FN	MON MON MON MON
13369/12179/---	2110/30/50z 2110/30/50z 2110/30/50z 2110/30/50z 2110/30/50z 2110/30/50z	04 Aug 08 Aug 11 Aug 15 Aug 22 Aug 25 Aug	314 000 314 1 (992 133) 09506... 314 1 (992 133) 09506... (Repeat of 08 Aug 2110z) 314 000 314 1 (428 59) 89725... 314 1 (428 59) 89725... (Repeat of 22 Aug 2110z)		FN FN FN FN/RNGB FN/RNGB FN	SAT WED SAT WED WED SAT
13918/12218/10818	1500/20/40z 1500/20/40z 1500/20/40z 1500/20/40z	08 Aug 15 Aug 22 Aug 29 Aug	991 1 ... 991 1 (181 141) 80745... (Repeat of 13 Aug 1300z) 991 000 991 1 (696 77) 61014...		FN FN FN/RNGB FN	WED WED WED WED
13984/12184/10384	1830/1850/1910z 1830/1850/1910z 1830/1850/1910z 1830/1850/1910z 1830/1850/1910z 1830/1850/1910z 1830/1850/1910z 1830/1850/1910z 1830/1850/1910z	05 Aug 08 Aug 12 Aug 15 Aug 19 Aug 22 Aug 22 Aug 26 Aug 29 Aug	913 1 (210 85) 44692... (1830z Vy strong signal) 913 1 (269 157) 25403... 913 1 (269 157) 25403... (Repeat of 08 Aug 1830z) 913 000 913 000 913 000 913 000 913 000 913 000 913 1 (453 219) 95566...		FN FN FN FN FN RNGB FN FN FN	SUN WED SUN WED SUN WED WED SUN WED
14468/13568/---	1310/30/50z 1310/30/50z 1310/30/50z 1310/30/50z	04 Aug 09 Aug 11 Aug 16 Aug	451 000 451 000 451 000 451 000		FN FN FN FN	SAT THU SAT THU

	1310/30/50z	18 Aug	451 000		FN	SAT
	1310/30/50z	23 Aug	451 1 (796 99) 50258 71161.....56314		FN/RNGB	THU
	1310/30/50z	25 Aug	451 1 (796 99) 50258... (Repeat of 23 Aug 1310z)		FN	SAT
14964/13972/12164	1300/20/40z	06 Aug	991 1 (154 185) 75403..		FN	MON
	1300/20/40z	13 Aug	991 1 (181 141) 80745...		FN	MON
	1300/20/40z	27 Aug	991 1 (696 77) 61014...		FN	MON

M12a (two message variant)
No Reports

M14 IA MCW / ICW / MCWCC, short 0

6856	1820z	10 Jul	163 (968 15) = 53728 53920 15272 76987 29436.....37286	RNGB	TUE
	1820z	14 Aug	163 (803 15) =	GD	TUE
	1820z	28 Aug	163 (803 15) = 83920 43829 51839 28305.....39253 MCW	Hans/RNGB	TUE
9085/9395	0700/0800z	10 Jul	576 00000	RNGB	TUE

M14a (two message variant)
No reports

M18 IC Time strings, UTC+4

4503	2037 - 2039z (IP)	09 Jul	0001 (In Progress - sending Time strings - Long zero) (GlobalTuners Hong Kong)	JPL	MON
	2058 - 2059z (IP)	10 Jul	0403 (In Progress - sending Time strings - Long zero) (GlobalTuners Hong Kong)	JPL	TUE
	1942z	08 Jul	0042 0042 0042 (for once a good signal)	FN	SUN

M23 O ICW

Just as the last Newsletter was going to press, RNGB found this sched on 26 June;

5440 // 7437	0701 - 0716z (IP)	26 Jun	[555]	No message	RNGB	TUE
	1500 -	26 Jun	[555]	No message	RNGB	TUE
	0654 - 0716z	28 Jun	[555]		RNGB	THU
5438kHz	0701 - 0716z	28 Jun	[555]	Fair	DoK, PLdn	THU
7436kHz	0654 - 0716z	28 Jun	[555]	Weak until 0701z then Very strong [Tx left in tune up mode] Tones 2m30s after end.	DoK, PLdn	THU

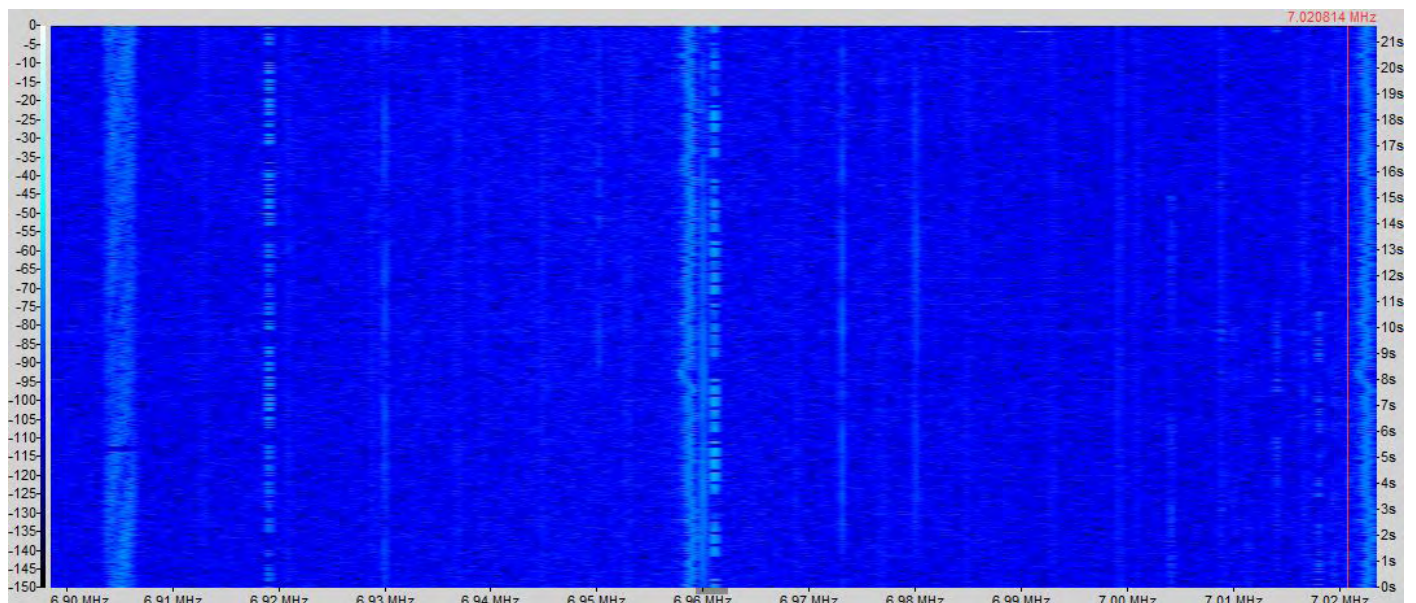
Unfortunately, that was the last that was heard of this sched. Either short-lived or found late, it failed to continue into July.

August 2012:

6961	1925z (IP)	06 Aug	[111 111 111 ...]		FN	MON
	1923 - 1942z	08 Aug	[111 111 111 ...] Strong		BR/DoK	WED

AB reported the station on the air during the past 4 days on both 6961 and 9886kHz from ca 1920 - 1943 UTC. Sending nothing but 111 111

6961/9886	1923 - 1942z	09 Aug	[111 111 111 ...] Strong on 6961, fair on 9886	AB/BR/Dok/PLdn	THU
-----------	--------------	--------	--	----------------	-----

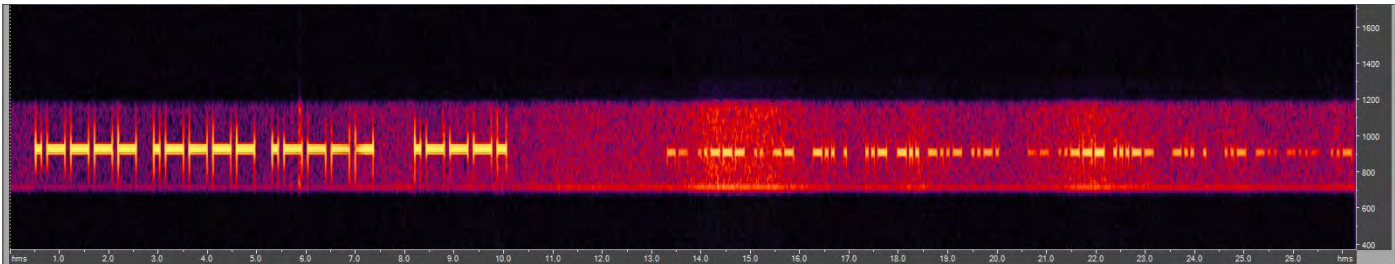


09 Aug12

M23 in progress on 6961kHz

Courtesy PLdn

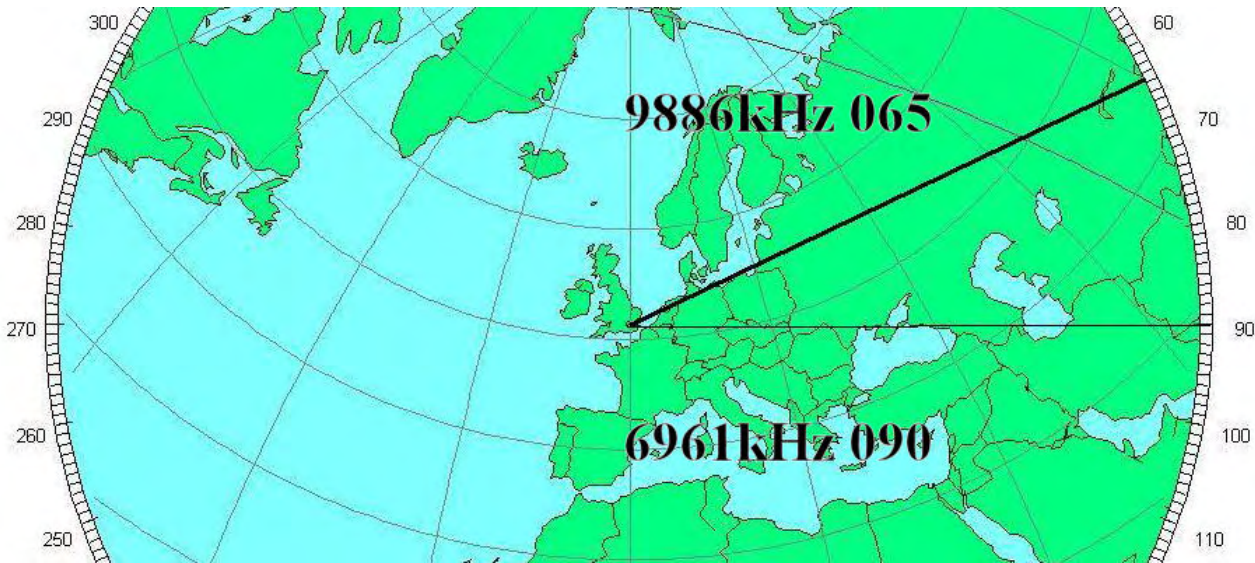
Immediately following the end of the 6961kHz transmission some weak CW was heard briefly. A recording by PLdn showed this to read 'M23 DE UDXF' sent twice. PLdn comments that it was good that no E2k personnel saw fit to send this.



09 Aug12 Ending of 6961kHz 1942z of which PLdn stated, "M23 de UDXF" is not the sort of 'professionalism' I'd like to see from E2k" Courtesy PLdn

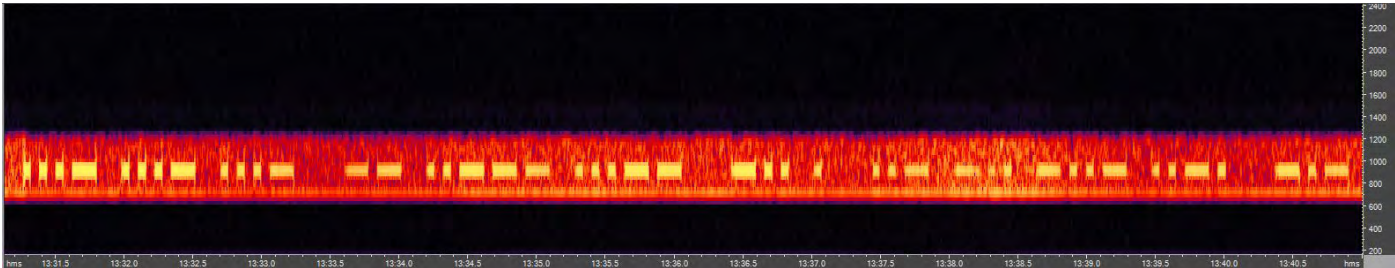
961//9886 1922 - 1942z 10 Aug [111 111 111 ...] Strong on 6961, fair on 9886 AB/BR/DoK/PLdn THU

We have received a set of bearings on the 10 Aug transmissions for both frequencies from Male Anon in the UK. It should be noted that whilst these are not professional readings it is believed that they are reasonably accurate. MaleAnon3 notes that the 065 deg bearing passes through Moscow.



10 Aug 12 Bearings taken on M23 1922z transmissions Courtesy Male Anon3

And just as we were all starting to get into monitoring mode for M23 - it disappeared once again. The station failing to appear on Sat 11 & Sun 12 leaving us all listening to the sound of dead air, static and the blank carrier just LF of 6961kHz... ..at least it would have been, but for the poor individual with a tuned-down amateur transceiver sending "VVV M23 DE UDXF K" repeatedly from 1914 - 1923z with a very weak signal, ending finally with a QRU K.



12 Aug "VVV M23 de UDXF K" Machine sent and transmitted numerous times from 1914 - 1923z Courtesy PLdn

Even IF M23 were listening, and IF they could even hear him (they most likely couldn't), does he really think that they are going to reply! It is fairly certain that other agencies were listening though and they probably already have a good idea where he is...

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

8167	1800z	02 Jul	??? (146 230)	Speed some 25 wpm.	Gert	MON
Possible repeat of the 17.00z CW sending on 10423kHz, but not sure of that.						
9073	1900z	10 Jul	975 (340 112) =	66277.....08108	RNGB	TUE
9073	1900z	19 Jul	975 (268 115) =	62161... 77412	Gert	THU

975 975 975 (R5) 268 268 115 115 ==

62161 62161 29928 29928 22951 22951 83938 83938 17875 17875
 05718 05718 26575 26575 18323 18323 35472 35472 43873 43874
 77094 77094 14048 14048 51904 51904 25906 25906 40823 40822
 71499 71499 88215 88215 27619 27619 24679 24679 39811 39811
 37697 37697 28624 28624 67521 67521 92242 92242 36557 36557
 34454 34454 94457 94457 16515 16515 09305 09305 72215 72215
 38835 38835 43507 43507 06019 06019 45703 45703 61599 61599
 62783 62783 73710 73710 60933 60933 22696 22696 98363 98363
 28942 28942 58025 58025 84215 84215 43192 43192 23915 23915
 10362 10362 49961 49961 75735 75735 23194 23194 76975 76975
 71131 71131 07140 07140 33270 33270 19099 19099 72804 72804
 32398 32398 52133 52133 16806 16806 80908 80908 83959 83959
 31067 31067 46690 46690 54369 54369 11213 11213 65818 65818
 06520 06520 52120 52120 34292 34292 59371 59371 97798 97798
 89664 89664 45627 45627 23470 23470 02177 02177 64874 64874
 57698 57698 11112 11112 12645 12645 57715 57715 20410 20410
 97179 97179 05451 05451 33586 33586 56531 56531 49409 49409
 63679 63679 04959 04959 88647 88647 56872 56872 88428 88428
 31003 31003 56046 56046 08171 08171 58517 58517 59894 59894
 44986 44986 36519 36519 24671 24671 43476 43476 80776 80776
 73919 73919 49114 49114 78981 78981 55122 55122 81593 81593
 26512 26512 57485 57485 87143 87143 48883 48883 47197 47197
 23789 23789 41545 41545 77787 77787 88617 88617 77412 77412 ==

268 268 115 115 00000

Courtesy Gert

10423 1700z + (IP) 02 Jul Ended with a DK and GC, followed by 00000 (TTTTT). Gert MON
 (I think it was M24 as sending was pretty fast - like 25 wpm). Possible starting time 17.00z.

10755 1700z 11 Jul 975 (706 23) = 93548 09654 46048 20688.....54247 RNGB WED

M24a as M24 with 2nd addressee hand keyed, rarely intercepted.
 No reports

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

5874//5474 1700z 07 Aug Carrier heard several times on both freqs. No other transmission heard AB TUE

AB wondered if M45 had some problems. He reports; *While waiting for M45 I heard on 5074 kHz a carrier being switched on and off several times and some chirps between 1655 and 1713 UTC but nothing else. Nothing on 5474 kHz. A carrier was then heard on 5474 kHz from 1716 to 1722 UTC. No other transmissions were heard.*

5075 1703z (IP) 16 Aug Very strong signal in Herne, Germany Jeanmo THU
 5074 1702z 16 Aug 074 (702 31) GD THU

5074 1702-1707z 28 Aug carriers off and on AB TUE

5474 1704z 28 Aug A couple of figures. I think 702 00 Problems again? AB TUE

M50 XIV MCW
 No reports

M51

5895 1947z 08 Aug NR 24 A 08 21:47:32 1984. Still sending 09 Aug, ended 0800z mid message GD WED

M51a (New designation - see article at start of Morse Round-up)

6825 0715z (IP) - 0726z 05 Aug Plain French text, (text book transcript?) Ending CQ DE FAV22 VA BR SUN
 3881//6825 0655 - 0725z 12 Aug Call-up followed by French text mixed with numbers Weak BR/GD SUN

0655z VVV VVV DE FAV22 FAV22 FAV22 Q . . 3881/6825KHz
 0700z Plain French text mixed with numbers - Slow CW
 0725z Ends text with AR CQ DE FAV22 VA

Signal started very weak, improving towards the end of transmission.

M55 O
 No reports

M62 O
 No reports

M76 O
 No reports

M87 O
No reports

M89 O

July 2012

GT = Global Tuners (Online remotely controlled receivers)

JPL has managed to log more two-way CW Op. chat. This time on 8013kHz - not a regular M89 frequency.

8013	0040 - 0055z	26 Jul	(In chat - msg sent) (GT Hong Kong)	JPL	THU
			(Both stations on the same freq!)		
	(0040z)		HR 7G GA K R GA R R AS R R R R R GA R R 7G NR 1233 CK 30 42 0726 2043 RMKS 4553 TO 432 SY K (0043z) Y K R R RR 7G G... R GA R R BT BT .5DU 7UDT 57U3 AD5D 475N 634U 5A6T 5UA6 A5UN 6AN5 4NUD D45T TNA5 UD34 UNN3 ANDU AT6D N5TD 6TUN 5A3N 546U 53U7 4A63 AD4T A6TD 7U64 43UN 7364 UAD3 3465 AR QSL ? K R RPT 26W K R R RPT 26W BT K BT 198IO. R RPT 2AEEEE RPT 26W K R R RPT 26W BT 7U64 K R RPT 26W K R AS AS (0047z) VV (0058z) V V UH (0059z) QSL ? K R RPT 26W K R R GA RPT 26W K (0100z) (0101z) K K (0101z) (Silent) (Monitored until 0119z)		
8013	0014 - 0100z	27 Jul	(In chat - msg sent) (GT Hong Kong)	JPL	FRI
			(Had been checking this freq on and off since 0007z)		
	(0014z)		*MSG NR 1042* CK 75 42 0827 0815 BT (X2) AUUN U356 ... (Cont'd) (Machine sent) AR (0018z) L L (0026Z) .. 74 (0039z) (0040z) AU34 56.. AU34 56.. (Hand sent) 456 (0040z) (Monitored until 0100z)		
8013	0211 - 0242z	27 Jul	(In chat - msg sent) (GT Hong Kong)	JPL	FRI
	(0210z)		V (Cont'd) BT V (Cont'd) (0213z) .. CK 75 4. 08.7 ..1.. (As luck would have it, lost the sound just before msg started at 0015z) *MSG NR 1043* CK 75 .2 ..7 1015 (0219z) MSG NR 1043 CK 75 42 0727 101. BT 73.T A.DT TU4N 46TA N755 UD6D 4AND 6DT. D.35 75NU (0222z) 7N4N T.34 AN47 T5N7 75AT... (Cont'd) AR AR (0222z) (Silent - monitored until 0242z)		
8013	1217 - 1240z		(In chat - msg sent) (GT Hong Kong)	JPL	FRI
			(In msg – 1217Z)(Both stations on the same frequency again!)		
	(1217z)		AAR *HA15 DE JFSQ* K R R MRR VVV *YUVQ DE 61BO* K K R QSA 2 K OK QSA 2 K R HR WK NR 404 K OK HR WK NR 72 K R AS HR MSG GA K GA 7G *NR 1243* CK 30 42 0720 EEE NR 1243 CK 30 42 0727 2040 K RPT (1226z) NR 1243 CK 30 42 0727 2040 RR OK GA R BT BT 7AAN DN4. 73D7 U436 5UD6 D7NA UN74 .TNT T3.U TT... (Cont'd) AR OK QSL 2043 QSL 2043 K R MSG NR GA K MSG *NR 0623* NR 0623 CK 30 42 .727 2043 BT K OK MSG BT 7AAN DN46 73D7 U436 5UD6 A7NA UN74 EEE T33U TTUT A675 6NA5 DT37 AD3N U755 545D 37DN N35U T737 76T5 NTUT U6DU 47AT 45AU DA5T ..N 6DNA N544 63DU AN63 AR AR QSL ? K R QSL 2046 K OK OK SK (1232z) SK SK MEB GB (1232z) (Monitored until 1240z)		

The regular M89 logs continue below:

GT = Global Tuners (Online remotely controlled receivers)

<u>3297// NRH</u>	1318 - 1319z	07 Jul	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
	1558 - 1559z	07 Jul	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
	1232 - 1300z	08 Jul	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
			(In t/c - 4 fig cut nr - very weak - to R/S 1257z)		
	1439 - 1440z	08 Jul	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	2043 - 2044z	08 Jul	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1200 - 1201z	10 Jul	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
	1715 - 1716z	10 Jul	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
	2056 - 2057z	10 Jul	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
	1513 - 1514z	11 Jul	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	WED
	1620 - 1621z	12 Jul	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	1817 - 1818z	15 Jul	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	2053 - 2054z	15 Jul	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1427 - 1428z	16 Jul	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	MON
	2030 - 2031z	16 Jul	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	MON
	1143 - 1144z	18 Jul	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	WED
	1556 - 1557z	18 Jul	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	WED
	1854 - 1855z	18 Jul	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	WED
	1952 - 1953z	18 Jul	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	WED
	1347 - 1348z	19 Jul	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	2129 - 2130z	19 Jul	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	1246 - 1247z	20 Jul	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	FRI

	1250 - 1251z	21 Jul	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
	1827 - 1828z	21 Jul	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
	2129 - 2130z	21 Jul	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
	1241 - 1242z	22 Jul	(In t/c -4 fig cut nr) AR V GKVZ (x3) DE Q7NW (x2) (Cont'd)	JPL	SUN
	2027 - 2028z	22 Jul	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1936 - 1937z	23 Jul	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	MON
	2058 - 2059z	23 Jul	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	MON
	1842 - 1843z	24 Jul	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
	2029 - 2030z	24 Jul	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
	1212 - 1213z	26 Jul	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	1333 - 1334z	26 Jul	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	1738 - 1739z	26 Jul	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	2049 - 2050z	26 Jul	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	1151 - 1152z	27 Jul	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
	1441 - 1442z	27 Jul	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
	2126 - 2127z	28 Jul	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
	1430 - 1431z	29 Jul	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1743 - 1744z	29 Jul	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1541 - 1542z	30 Jul	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	MON
	1739 - 1740z	30 Jul	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	MON
	0950 - 1019z	30 Jul	(In chat) (GT Hong Kong)	JPL	MON
		(0950z)	MSG GA K K K K K K FM 5M E QIE QSL .1111 K R HR HR MSG k K DU7U HILHRGHRHR M HR ME 7.A FM 7A FM AI. NU4 NU4 DU5E // (Cont'd (0951z) U 'e eh c//1N . . E AADADADU3U3 BT 33 DE PE WPPPPP.PPPP.. AR AR AR AR AR AR AR ..TU DF N. K K WWKKWWKKWWKKWK EE BT E E 13UD63AD6DE EITN AA N AANANANA..ANNANNANNANPPXE 5 NRE7UE 5 E HR NR 124 K HR NR 124 TT TT ..DDEDE DE BBBBN QSL QSL QSL 1234 K GA GA GA GA GA GA (0954z) UUMU MU U U MSG GA UMSG . 73 FM A E U MSG AGA UMSG A K U MS A GA K US UMS E 7U MSG GA U MSG GA U MSG GA K R R U 120 MGA K 124 M GA R E X X QS. N QSY 80 NR 182 K R R K K RAIR R H HD HR NR 124 K R R U MSG GA K (1001z) R R U 120 GR GA K (0958z) BT (1001z) (Silent – Monitored until 1019z)		
3797//4512	1301 - 1302z	08 Jul	V H2FL (x3) D E DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1442 - 1443z	08 Jul	V H2FL (x3) D E DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
(4512 only)	1202 - 1203z	10 Jul	V H2FL (x3) D E DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
(4512 only)	1515 - 1516z	11 Jul	V H2FL (x3) D E DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	WED
(4512 only)	1559 - 1600z	18 Jul	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	WED
(4512 only)	1855 - 1856z	18 Jul	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	WED
(4512 only)	1954 - 1955z	18 Jul	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	WED
	1830 - 1831z	21 Jul	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
(4512 only)	1216 - 1217z	26 Jul	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	THU
(4512 only)	1428 - 1429z	29 Jul	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
(4512 only)	1746 - 1747z	29 Jul	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
4225//5500					
(5500 only)	1314 - 1317z	07 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
(5500 only)	1556 - 1557z	07 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
	1235 - 1236z	08 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1435 - 1436z	08 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	2039 - 2040z	08 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1147 - 1148z	10 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
	1709 - 1710z	10 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
(4225 only)	2051 - 2052z	10 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GTs Hong Kong)	JPL	TUE
	1117 - 1119z	11 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	WED
	1511 - 1512z	11 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	WED
	2125 - 2126z	11 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	WED
(5500 only)	1107 - 1108z	12 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	THU
(5500 only)	1351 - 1352z	12 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	1049 - 1050z	13 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
	2249 - 2250z	13 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
	1815 - 1816z	15 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	2049 - 2050z	15 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	2109 - 2119z	15 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Msg sent at 2113z)(GT Hong Kong)	JPL	SUN
		(2113z)	VVV UGT COMM BT 9450/0540/G65/4319 AR (Hand sent) V UGT COMM BT 9450/0540/G65/4319		
AR (Return to R/S 2114z)					
	1425 - 1426z	16 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	MON
	2026 - 2027z	16 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	MON
(5500 only)	1140 - 1141z	18 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	WED
(5500 only)	1552 - 1553z	18 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	WED
(5500 only)	1850 - 1851z	18 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	WED
(5500 only)	1949 - 1950z	18 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	WED
(5500 only)	1143 - 1144z	19 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	THU
(5500 only)	1343 - 1344z	19 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	THU
(5500 only)	2125 - 2126z	19 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	THU
(5500 only)	2309 - 2310z	19 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	THU
(5500 only)	2212 - 2213z	20 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
(5500 only)	0939 - 0940z	21 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
(5500 only)	1107 - 1108z	21 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
(5500 only)	1253 - 1254z	21 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
(5500 only)	1825 - 1826z	21 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SAT

(5500 only)	2126 - 2127z	21 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
(5500 only)	1042 - 1043z	22 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
(5500 only)	1235 - 1236z	22 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
(5500 only)	2018 - 2019z	22 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
(5500 only)	2211 - 2212z	22 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
(5500 only)	1025 - 1026z	23 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	MON
(5500 only)	1931 - 1932z	23 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	MON
(5500 only)	2054 - 2055z	23 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	MON
(5500 only)	2251 - 2252z	23 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	MON
(5500 only)	1053 - 1054z	24 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
(5500 only)	1225 - 1226z	24 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
(5500 only)	1352 - 1353z	24 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
(5500 only)	1835 - 1836z	24 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
(5500 only)	2025 - 2026z	24 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
(5500 only)	2117 - 2118z	24 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
(5500 only)	1012 - 1013z	25 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	WED
(5500 only)	2142 - 2143z	25 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	WED
(4225 only)	0939 - 0940z	26 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	THU
(4225 only)	1210 - 1211z	26 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	THU
(4225 only)	1329 - 1330z	26 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	THU
(4225 only)	1734 - 1735z	26 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	THU
(4225 only)	2045 - 2046z	26 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	THU
(4225 only)	2154 - 2155z	26 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	THU
(5500 only)	1145 - 1146z	27 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
(5500 only)	1437 - 1438z	27 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
(5500 only)	2241 - 2242z	27 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
	1037 - 1038z	28 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
	1117 - 1118z	28 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
	1257 - 1258z	28 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
	1947 - 1948z	28 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
	2117 - 2118z	28 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
(4225 only)	1406 - 1407z	29 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
(5500 only)	1524 - 1525z	29 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1739 - 1740z	29 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
(5500 only)	1537 - 1538z	30 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	MON
(5500 only)	1735 - 1736z	30 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	MON
<u>4590/7607</u>	1320 - 1322z	07 Jul	V WITN (x3) D E GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
	1602 - 1603z	07 Jul	V WITN (x3) D E GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
	1310 - 1319z	08 Jul	V WITN (x3) DE GNXXG (x2)(Cont'd) (GT Hong Kong) (<i>In t/c</i>)	JPL	SUN
(1310z) NR 32 221. RMKS 5312 TO 5497 BT 5342 BT COMM. /2.00/NZ2MI0 .2/53.25497 AR QSL? HR WK					
NR 4 (To R/S 1312z)					
	1437 - 1438z	08 Jul	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	2041 - 2042z	08 Jul	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1150 - 1159z	10 Jul	V WITN (x3) DE GNXXG (x2) (Cont'd) (2 <i>Msg at 1151z</i>) (GT Hong Kong)	JPL	TUE
(1151z) NR 040 1945 RMKS 5312/5483/5343 BT COMM/2030/LZ22 M62/5312/5483 AR QSL ? HRWK NR GA					
36 VHV R HRC GA					
(1151z) NR 59 2000 RMKS 5312 TO 5597/5342 BT COMM/2045/LZ22 .A2/531/5597 AR QSL ?HR WK NR GA					
16 (1153z - Return to R/S)					
	1713 - 1714z	10 Jul	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
	2054 - 2055z	10 Jul	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
(7607 only)	1127 - 1128z	11 Jul	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	WED
	1512 - 1513z	11 Jul	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	WED
	2127 - 2128z	11 Jul	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	WED
(7607 only)	1109 - 1110z	12 Jul	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	THU
(7607 only)	2252 - 2253z	13 Jul	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
	1825 - 1826z	15 Jul	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	2051 - 2052z	15 Jul	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1426 - 1427z	16 Jul	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	MON
(7607 only)	1612 - 1613z	16 Jul	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT South Africa)	JPL	MON
	2028 - 2029z	16 Jul	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	MON
(7607 only)	1142 - 1143z	18 Jul	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	WED
	1554 - 1555z	18 Jul	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	WED
(7607 only)	1852 - 1853z	18 Jul	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	WED
(7607 only)	1951 - 1952z	18 Jul	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	WED
(7607 only)	1145 - 1146z	19 Jul	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	1345 - 1346z	19 Jul	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	2127 - 2128z	19 Jul	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	1244 - 1245z	20 Jul	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
(7607 only)	1925z	20 Jul	V WITN WITN WITN de GNXXG GNXXG GNXXG]	FN	FRI
	2214 - 2215z	20 Jul	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
(7607 only)	1108 - 1109z	21 Jul	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
(7607 only)	1254 - 1255z	21 Jul	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
	1826 - 1827z	21 Jul	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
	2128 - 2129z	21 Jul	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
(7607 only)	1237 - 1238z	22 Jul	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	2025 - 2026z	22 Jul	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	SUN

(7607 only)	2212 - 2213z	22 Jul	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1102 - 1103z	23 Jul	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	MON
	1934 - 1935z	23 Jul	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	MON
	2056 - 2057z	23 Jul	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	MON
(7607 only)	2253 - 2254z	23 Jul	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	MON
(7607 only)	1355 - 1356z	24 Jul	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
(7607 only)	1837 - 1838z	24 Jul	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
(7607 only)	2027 - 2028z	24 Jul	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
(7607 only)	2125 - 2126z	24 Jul	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
(7607 only)	2144 - 2145z	25 Jul	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	WED
	1218 - 1219z	26 Jul	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	1331 - 1332z	26 Jul	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	1736 - 1737z	26 Jul	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	2047 - 2048z	26 Jul	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	2155 - 2156z	26 Jul	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	THU
(7607 only)	1147 - 1148z	27 Jul	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
	1439 - 1440z	27 Jul	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
(7607 only)	2243 - 2244z	27 Jul	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
(7607 only)	1130 - 1131z	28 Jul	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
(7607 only)	1259 - 1316z	28 Jul	(In tfc - 4 fig cut nr) V WITN (x3) DE GNXXG (x2) (Cont'd)	JPL	SAT

(1259z) (In tfc - very poor copy)

NT3D AT53 N.4D 7A64 F.3N ND64 .5D3 UT36 573N N6U. . AR QSL ? HR WK NR ..
 .. 28 21.5 RMks 3WAUM TO 6678 6298 53.8 5.68 BT
 .. QRW 6Z02 6292 5342 QRW L16 1200 .P 531ND C
 QSL ? HR WK NR GA 16 VVV
 HR SVC GA NR .1.. 1.5 RMKS 5312 TO 6904/.42 BT
 COMM/2200/L.220.2/.312/6904 AR QSL ? HR WK NR GA16

(1312z) V WITN DE GNXXG (1312z) (Cont'd)

	1459 - 1500z	28 Jul	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
	1949 - 1950z	28 Jul	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
(7607 only)	2118 - 2119z	28 Jul	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
	1408 - 1409z	29 Jul	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1526 - 1527z	29 Jul	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1741 - 1742z	29 Jul	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1539 - 1540z	30 Jul	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	MON
	1737 - 1738z	30 Jul	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	MON

<u>4860// 6840</u>	1320 - 1325z	08 Jul	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	SUN
	1719 - 1724z	10 Jul	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	TUE
	1520 - 1525z	11 Jul	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	WED
	1820 - 1825z	15 Jul	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	SUN
	2120 - 2125z	15 Jul	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	SUN
	1420 - 1425z	16 Jul	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	MON
	2220 - 2225z	20 Jul	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	FRI
(6840 Only)	1825z	21 Jul	VVV Q2M Q2M Q2M de NYZ NYZ NYZ]	FN	FRI
	2120 - 2125z	21 Jul	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	SAT
	2019 - 2024z	22 Jul	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	SUN
	2220 - 2225z	22 Jul	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	SUN
	1419 - 1424z	24 Jul	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	TUE
	2019 - 2024z	24 Jul	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	TUE
	2119 - 2124z	24 Jul	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	TUE
	2220 - 2225z	26 Jul	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	THU
	1320 - 1325z	27 Jul	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	FRI
	1520 - 1525z	27 Jul	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	FRI
	2120 - 2125z	28 Jul	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	SAT

<u>5230//NRH</u>	1600 - 1601z	07 Jul	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
	1441 - 1442z	08 Jul	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1142 - 1227z	18 Jul	(In 4 fig cut nr cipher tfc) (GT Hong Kong)	JPL	WED

(1142z) (In tfc - Hand Sent – Tends to run groups together - 1142z)

743U5 .4U7N 3D5DA7U5U347T6NAD7U543T6N45 T3N6 5D3N 6TAD 7UA4 TA45 6
 AR 3: AN43 6UT5 6TN3 A7D4 57A4 6TD5 47N3 U3N7 DA6T 457U 5DTA 5T6U
 A4N3 6D3N 6NT5 U34A D5N7 6TDA 43.. 54.. 534T 6NDA 7U6A TDN3 457U
 DA6N 54U7 T6DA T5U7 436N DA3N 7U5TA 46U 7N3D 6T43 43T5 34N7
 D56T 7N6U D6UA UT75 A..3 34AN N7AD 6UAD 5T34 6T5D 3N47 DA7N
 6TU5 NA4 D3TA 7U45 6N74 N7DA U7T5 ST? 436U 3T54 6N54 6N3T DAU7
 45TA 6D3N AD.. 6U3.. D7N ...

BT BT (This is a second station – much louder – Does not seem to be working this station- 1148z)

44TU 3456 MIDNT T36N (1149z)
 VV BT *T36N* 7UAD 5? VV BT *T36N* 7U
 VV BT *T36N* 7UAD 546N U7DA T345 6NT7 43U5 D.T6 4AU7 T3D5 DA.U 3? 5U.4 7T6N AD7U

543T 6N45 (1150z)

VV B T *T36N* 7UAD 546N U7DA T345 6NT7 43U5 DAT6 4AU7N3D5 DA7U 5U34 7T6N AD7U V?

3T 6N V5T3 N65D 3N6. (1152z)

(1154z)	VV BT T36N 7UAD 546N U7DA T345 6NT7 43U5 DAT6 4AU7 N3D5 DA7U 5U34 7T6N AD7U				
	VV BT *T36N* 7UAD 546N U7DA T345 6NT7 43U5 DAT6 4A (1155z) VV BT *T36N* 7UAD 546N U7DA T445 6NT7 43U5 DAT6 4AU7 N3D5 DA7U 5U (1156z) VVV BT VV BT *T36N* 7UAD 546N U7DA T345 6NT7 43U5 DAT6 4AU7 N3D5 ? DA7U 5U34 7.6N AD7U 5.? 543T .N45 T3N6 ? D3N6 .7UA4 TA45 6NAD 7N3U 3D74 5D6T 4A7U AN43 6UT5 6TN3 U7D5 57A. BT D547 N3U3 NGD. 6T45 7U5D TA5T DEUA ..N3 6D3N NINT 5U34 AD5N 7TST DA43 7U53 4T6N DA,... TDN3 ? 457U DA6N 54U7 T5DA T5U7 436N DA3N 7U5T T46U 7N3D 6T43 4.? 43T5 3.? 34N7 D56T 7N6U D.UA UT75 34AN 6UT5 N7AD 6.AD 5T34 6T5D 3N47 DA7N 6TU5 NA43 D3TA 7.45 6N7.EEEEE (1201z)				
AD7N 5T7U D3N6 A.54 IIII (1203z)	4 4 4 4 (VERY SLOW) N7DA U7T5 4VT V36U.. T546 N53D 6N.T NU74 5TA6 D3NA D7U 6U34 345 67DNT AU34 567D N... .345 67DN TA.. 67D NT VV BT *T36N* 7UAD 546N U7DA T345 6NT7 43U5 DAT. 4AU7 N3D5 DA7U 5U34 7T6N AD7U 543T 6N45 T3N6 5D3N 6TAD 7AA4 TA45 6NAD 7N3U 3D74 5D6T 4A7U AN43 6UT5 DTN. U7D5 57A. .TD5 47N3 U3N7 DA6T 457U 5DTA 5T6U A.N3 6D3N 6NT5 U34A D5N7 6TD. 437U 534T 6NDA 7U6A TDN. 457U DA6. 54UN T6DA T5U7 .36N DA3N 7U5T A46U 7N3D NIT.343T634 N7 D5DT 7N6. 6? D6UA UT75 A43D 34.6 .T5N7A. ? N7A. 6UAD5 .W4 6T.D 3N47 DA7T 6TU5 NA43 D.TA 7U45 .N74 N7DA U7T5 .? 436W 3T54 6N54 6N3T DA.7 45.. 6D3N AD7U 6U34. D7N 5T7? D3NT AT54 IIIII (1210z) VV BT (1213z) VV BTT VV BT VV BT *T36N* 7A ??? VV BT *T36N* A (1214z) *T36N* 7UAD 546N U7DA T345 6NT7 43U5 DAT6 4AU7 N3D5 DA7U 5U34 7T6N AD7U 5.3T 6N45 T3N6 5D3N 6TA. 7UA.? 7UA4 TA45 6NAD 7N3U 3.74 5D.. VV BT *T36N* 7UAD 546 NU7D A..456NT7 43U5. DAT6 4AU7 N3D5 DA7U 5U34 7T6N A.7U EE 43T6 N45T 3N65 D3N 6TAD 7UA4 TA45 6NAD 7.3U 3D74 5D6T 4A7U A.43 6.T5 6TN3 U7D5 57A4 6TD5 .7N3 U3N7 DA6T 457U 5DTA 5T6. A4N3 6D3N .NT5 U34A D5N7 6TDA 437U 53.T 6NDA 7U6A TDN3 457U DADE? DA6N 5EE 4U7 T5DA T4U7 436N DA3N 7U5T A46. 7N.T ? 7N3D 6T43 43T5 34N7 D56T 7NDU 6? D6UA UT75 A43D UU				
(1220z)					
(1227z)	(1227z)	..XQ DE F6..QSA ? QSA 3 K (This seems to be yet a 3rd station – weaker – (1222z) OK (1224z) (Silent)			
	(Started at group T36N a total of 8 times!)				
	1740 - 1741z	26 Jul	V DKG6 (x3) DE 3A7D (x2) (Cont'd)(GT Hong Kong)	JPL	THU
	1456 - 1457z	28 Jul	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
<u>5230//3642</u>	1647 - 1648z	15 Jul	V DKG6 (x3) DE 3A7D (x2) (Cont'd)(GT South Africa)	JPL	SUN
(5230 only)	1819 - 1819z	15 Jul	V DKG6 (x3) DE 3A7D (x2) (Cont'd)(GT Hong Kong)	JPL	SUN
(5230 only)	2055 - 2056z	15 Jul	V DKG6 (x3) DE 3A7D (x2) (Cont'd)(GT Hong Kong)	JPL	SUN
	1429 - 1430z	16 Jul	V DKG6 (x3) DE 3A7D (x2) (Cont'd)(GT Hong Kong)	JPL	MON
	1558 - 1559z	18 Jul	V DKG6 (x3) DE 3A7D (x2) (Cont'd)(GT Hong Kong)	JPL	WED
(5230 only)	1952 - 1953z	18 Jul	V DKG6 (x3) DE 3A7D (x2) (Cont'd)(GT Hong Kong)	JPL	WED
	2130 - 2131z	21 Jul	V DKG6 (x3) DE 3A7D (x2) (Cont'd)(GT Hong Kong)	JPL	SAT
(5230 only)	1938 - 1939z	23 Jul	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (GT Hong Kong)	JPL	MON
	1951 - 1952z	28 Jul	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
(5230 only)	1432 - 1433z	29 Jul	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
(5230 only)	1745 - 1746z	29 Jul	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
(5230 only)	1544 - 1545z	30 Jul	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (GT Hong Kong)	JPL	MON
(5230 only)	1741 - 1742z	30 Jul	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (GT Hong Kong)	JPL	MON
<u>5278//NRH</u>	1451 - 1452z	28 Jul	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
<u>5801//10180</u>					
(5801 only)	1711 - 1712z	10 Jul	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
(5801 only)	1349 - 1350z	19 Jul	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	1401 - 1402z	19 Jul	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	1248 - 1249z	20 Jul	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
(10180 only)	1111 - 1112z	21 Jul	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
(5801 only)	1829 - 1830z	21 Jul	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
(10180 only)	1048 - 1049z	22 Jul	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1239 - 1240z	22 Jul	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
(10180 only)	0226 - 0227z	23 Jul	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (GT Hong Kong)	JPL	MON
(10180 only)	1028 - 1030z	23 Jul	(UGT COMM msg sent - mostly U/R) (GT Hong Kong)	JPL	MON
(10180 only)	1059 - 1101z	23 Jul	(UGT COMM msg sent - mostly U/R) (GT Hong Kong)	JPL	MON
(10180 only)	1057 - 1058z	24 Jul	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
(10180 only)	1229 - 1230z	24 Jul	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
(10180 only)	1006 - 1007z	25 Jul	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (GT Hong Kong)	JPL	WED
(10180 only)	1214 - 1215z	26 Jul	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	1335 - 1336z	26 Jul	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (GT Hong Kong)	JPL	THU
(10180 only)	0208 - 0209z	27 Jul	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
(10180 only)	1149 - 1150z	27 Jul	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
(10180 only)	1443 - 1444z	27 Jul	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
(10180 only)	1042 - 1043z	28 Jul	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
(10180 only)	1118 - 1119z	28 Jul	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
	1318 - 1319z	28 Jul	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
<u>6773//4512</u>	1129 - 1130z	11 Jul	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	WED
<u>6773//8040</u>	0944 - 0945z	21 Jul	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	SAT

(6773 only)	1109 - 1110z	21 Jul	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
	1051 - 1052z	22 Jul	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	2215 - 2216z	22 Jul	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	2159 - 2200z	26 Jul	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	1153 - 1154z	27 Jul	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
(6773 only)	1045 - 1046z	28 Jul	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
(6773 only)	1126 - 1127z	28 Jul	(UGT COMM msg sent - mostly U/R) (GT Hong Kong)	JPL	SAT
(6773 only)	1045 - 1046z	30 Jul	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	MON
6840//10640	0020 - 0025z	08 Jul	VVV (x3) Q2M DE NYZ (x2) QSA ? K(R5) (GT Hong Kong)	JPL	SUN
	1220 - 1225z	10 Jul	VVV (x3) Q2M DE NYZ (x2) QSA ? K(R5) (GT Hong Kong)	JPL	TUE
	1120 - 1125z	11 Jul	VVV (x3) Q2M DE NYZ (x2) QSA ? K(R5) (GT Hong Kong)	JPL	WED
	1120 - 1125z	12 Jul	VVV (x3) Q2M DE NYZ (x2) QSA ? K(R5) (GT Hong Kong)	JPL	THU
	2320 - 2325z	13 Jul	VVV (x3) Q2M DE NYZ (x2) QSA ? K(R5) (GT Hong Kong)	JPL	FRI
	2320 - 2325z	19 Jul	VVV (x3) Q2M DE NYZ (x2) QSA ? K(R5) (GT Hong Kong)	JPL	THU
	2330 - 2342z	19 Jul	6840kHz (In chat) (GT Hong Kong)	JPL	THU
	(2330z)	(Hand sent - very poor copy) .. 416. HR NR 416.. R7 K.. DR NR.16 K R IV2R K LG... DE V.X K K R 416 K K (2331z)			
		R R R QNR QRW 9.. ZU9 D K QRW ZRW 9 MDE K R GBG6 R R R I VOR DE VE.X .. R NR 416 .. K R R QSW 0 SCZ.. K RW SCZ.. K R R ... AS .. RR 98. 3GA H K HR NR 416 .. K Q.W Z 83CO.. HK 0 SK ZX K (2336z)			
	(2337z)	Z 0 .. VV. K QSA 3 .. R .. (2337z) (Silent)			
(6840 only)	0220 - 0225z	21 Jul	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	SAT
(6840 only)	1120 - 1125z	21 Jul	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	SAT
	0320 - 0325z	22 Jul	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	SUN
	0420 - 0425z	22 Jul	VVV (x3) Q2M DE NYZ (x2) QSA ? K(R5) (GT Hong Kong)	JPL	SUN
	1120 - 1125z	22 Jul	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	SUN
	0219 - 0224z	23 Jul	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	MON
	1020 - 1025z	25 Jul	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	WED
	0120 - 0125z	26 Jul	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	THU
	0919 - 0924z	26 Jul	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	THU
	1120 - 1125z	28 Jul	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	SAT
	1420 - 1425z	29 Jul	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	SUN
	Note: Started at 1420z but had tx problems which were resolved at 1422z.				
	1020 - 1025z	30 Jul	VVV (x3) Q2M DE NYZ (x2) QSA ? K(R5) (GT Hong Kong)	JPL	MON
7582//8110					
(7582 only)	0015 - 0017z	08 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
(7582 only)	0536 - 0537z	08 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	0240 - 0241z	13 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
	2342 - 2343z	14 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
	1234 - 1243z	20 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
	0206 - 0207z	21 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
	0415 - 0416z	22 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	0032 - 0033z	26 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	0925 - 0926z	26 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	0007 - 0008z	27 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
	0204 - 0205z	27 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
	0943 - 0944z	30 Jul	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	MON

	0206 - 0207z	27 Jul	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
	1040 - 1041z	28 Jul	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
	1115 - 1116z	28 Jul	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
(8789 only)	0946 - 0947z	30 Jul	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	MON
August 2012			GT = Global Tuners (Online remotely controlled receivers)		
<u>3297// NRH</u>	1859 - 1900z	11 Aug	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
	1355 - 1356z	17 Aug	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
	1604 - 1605z	19 Aug	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1936 - 1937z	19 Aug	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1148 - 1149z	20 Aug	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	MON
	1629 - 1630z	23 Aug	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	1917 - 1918z	23 Aug	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	1133 - 1134z	25 Aug	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
	1216 - 1217z	25 Aug	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
	1703 - 1704z	25 Aug	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
	2030 - 2031z	25 Aug	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
	1142 - 1143z	26 Aug	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1533 - 1534z	26 Aug	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1609 - 1610z	26 Aug	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1832 - 1833z	26 Aug	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1932 - 1933z	26 Aug	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1144 - 1145z	27 Aug	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	MON
	1302 - 1303z	27 Aug	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	MON
	1507 - 1508z	27 Aug	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	MON
	2027 - 2028z	28 Aug	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
	1248 - 1249z	29 Aug	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	WED
<u>3797//4512</u>	1903 - 1904z	11 Aug	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
(4512 only)	1408 - 1409z	16 Aug	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	1649 - 1650z	17 Aug	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
(4512 only)	1608 - 1609z	19 Aug	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
(4512 only)	1938 - 1939z	19 Aug	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
(4512 only)	1151 - 1152z	20 Aug	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	MON
(4512 only)	1603 - 1604z	21 Aug	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
(4512 only)	1913 - 1914z	21 Aug	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
(4512 only)	1616 - 1617z	22 Aug	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	WED
	1137 - 1138z	26 Aug	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
(3797 only)	1534 - 1535z	26 Aug	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
(3797 only)	1611 - 1612z	26 Aug	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
(3797 only)	1836 - 1837z	26 Aug	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
(3797 only)	1936 - 1937z	26 Aug	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
(3797 only)	1305 - 1306z	27 Aug	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	MON
(3797 only)	1509 - 1510z	27 Aug	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	MON
(3797 only)	2029 - 2030z	28 Aug	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
(3797 only)	1252 - 1253z	29 Aug	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	WED
<u>4225//5500</u>	1518 - 1519z	01 Aug	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	WED
(5500 only)	2009 - 2010z	01 Aug	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	WED
	1852 - 1853z	11 Aug	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
(5500 only)	1707 - 1708z	13 Aug	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	MON
	1403 - 1404z	16 Aug	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	THU
(4225 only)	1910z	16 Aug	V 7NPE 7NPE de QV5B QV5B	FN	THU
	2143 - 2150z	16 Aug	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	1026 - 1027z	17 Aug	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
	1600 - 1601z	19 Aug	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1141 - 1142z	20 Aug	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	MON
	1026 - 1027z	21 Aug	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
	1556 - 1557z	21 Aug	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
	1910 - 1911z	21 Aug	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
(5500 only)	1612 - 1613z	22 Aug	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	WED
(5500 only)	1045 - 1119z	23 Aug	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	THU
(5500 only)	1618 - 1619z	23 Aug	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	THU
(5500 only)	1913 - 1914z	23 Aug	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	THU
(5500 only)	1925 - 2036z	23 Aug	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	THU
(5500 only)	1025 - 1026z	24 Aug	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
	1040 - 1043z	25 Aug	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
(5500 only)	1142 - 1143z	25 Aug	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
(5500 only)	1659 - 1700z	25 Aug	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
(5500 only)	2026 - 2027z	25 Aug	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
(5500 only)	2204 - 2205z	25 Aug	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
(4225 only)	1101 - 1102z	26 Aug	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
(4225 only)	1134 - 1135z	26 Aug	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
(4225 only)	1529 - 1530z	26 Aug	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
(4225 only)	1605 - 1606z	26 Aug	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
(5500 only)	1828 - 1829z	26 Aug	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
(5500 only)	1929 - 1930z	26 Aug	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1138 - 1139z	27 Aug	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	MON
	1147 - 1157z	27 Aug	(Msg sent - Probably QV5B) (GT Hong Kong)	JPL	MON

		(1147z)	(In tfc – 1147z - 4225 kHz) NR 013 1945 RMKS 9549 TO 3978 (Silent – switched to //5500kHz) VV VV EE NR 013 1945 RMKS 9549 TO 3978/9543 BT BT UGT COMM 3978/0900/G17/9543 AR AR (1150z) EE NR 0EEEE (The 2 EE before NR are Barred) VV V UGT COMM BT 3978 TO EEEE VV UGT COMM BT 3978 /0900/G17/9543 AR		
		(1152z)	VV UGT COMM BT 3978/0900/G17/9543 AR AR (1152z) (Silent on both freqs – monitored un til 1157z)		
	1257 - 1259z	27 Aug	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	MON
	1329 - 1340z	27 Aug	(In tfc) V 7NPE (x3) DE QV5B (x2)(Cont'd) (GT Hong Kong)	JPL	MON
		(1329z)	(In tfc – 1329z) VV VV UGT COMM BT 3068/2200/G17/9543 AR VV VV UGT COMM BT 3EEEE VV VV UGT COMM BT 3068/2200/G17/9543 AR VV VV UGT COMM BT 3068/2200/G1G EEE		
		(1332z)	VV VV UGT COMM BT 3068/2200/G17/9543 AR AR AR (1332z)(Return to R/S 1333z)		
	1503 - 1504z	27 Aug	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	MON
(5500 only)	1916 - 1917z	27 Aug	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	MON
	1244 - 1245z	29 Aug	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	WED
4590//7607	1526 - 1527z	01 Aug	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	WED
	2011 - 2012z	01 Aug	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	WED
	1855 - 1856z	11 Aug	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
(7607 only)	1709 - 1710z	13 Aug	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	MON
(7607 only)	1405 - 1406z	16 Aug	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	THU
(7607 only)	2151 - 2152z	16 Aug	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	THU
(7607 only)	1353 - 1354z	17 Aug	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
(7607 only)	1647 - 1648z	17 Aug	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
(7607 only)	1602 - 1603z	19 Aug	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1558 - 1559z	21 Aug	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
	1912 - 1913z	21 Aug	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
(7607 only)	1614 - 1615z	22 Aug	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	WED
(7607 only)	1627 - 1628z	23 Aug	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	THU
(7607 only)	1915 - 1916z	23 Aug	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	THU
(7607 only)	1830z	24 Aug	V WITN WITN WITN de GNXXG GNXXG]	FN	FRI
(7607 only)	1109 - 1111z	25 Aug	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
	1701 - 1702z	25 Aug	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
	2028 - 2029z	25 Aug	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
(7607 only)	2206 - 2207z	25 Aug	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
(7607 only)	1129 - 1130z	26 Aug	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1531 - 1532z	26 Aug	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1607 - 1608z	26 Aug	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1830 - 1831z	26 Aug	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1931 - 1932z	26 Aug	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1140 - 1141z	27 Aug	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	MON
	1300 - 1301z	27 Aug	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	MON
	1505 - 1506z	27 Aug	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	MON
	1918 - 1919z	27 Aug	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	MON
	2025 - 2026z	28 Aug	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
	1246 - 1247z	29 Aug	V WITN (x3) DE GNXXG (x2) (Cont'd) (GT Hong Kong)	JPL	WED
4860// 6840	1520 - 1525z	01 Aug	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	WED
	2020 - 2025z	01 Aug	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	WED
	1920 - 1925z	11 Aug	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	SAT
	1719 - 1724z	13 Aug	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	MON
	1420 - 1425z	16 Aug	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	THU
	1620 - 1625z	19 Aug	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	SUN
	1620 - 1625z	21 Aug	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	TUE
	1920 - 1925z	21 Aug	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	TUE
	1620 - 1625z	22 Aug	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	WED
	1619 - 1624z	23 Aug	VVV (x3) Q2M DE NYZ (x2) QSA ? K(R5) (GT Hong Kong)	JPL	THU
	1919 - 1924z	23 Aug	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	THU
	1719 - 1724z	25 Aug	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	SAT
	2020 - 2025z	25 Aug	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	SAT
	2219 - 2224z	25 Aug	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	SAT
	1620 - 1625z	26 Aug	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	SUN
	1320 - 1324z	27 Aug	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	MON
	1520 - 1525z	27 Aug	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	MON
	1919 - 1924z	27 Aug	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	MON
(6840 only)	2020 - 2025z	28 Aug	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	TUE
5230//NRH	1606 - 1607z	19 Aug	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1705 - 1706z	25 Aug	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
	2208 - 2209z	25 Aug	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
	1535 - 1536z	26 Aug	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1613 - 1614z	26 Aug	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1834 - 1835z	26 Aug	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1934 - 1935z	26 Aug	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (GT Hong Kong)	JPL	SUN

<u>5230//3642</u> (5230 only)	1857 - 1858z	11 Aug	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
(5230 only)	1507 - 1508z	27 Aug	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Mon) (GT Hong Kong)	JPL	MON
(5230 only)	1925 - 1926z	27 Aug	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Mon) (GT Hong Kong)	JPL	MON
<u>5278//NRH</u>	1037 - 1119z	17 Aug	In tfc - 4 fig cut nrs - mostly U/R).... DE Q7NW (1107z) (Silent)	JPL	FRI
	1034 - 1035z	21 Aug	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
	1041 - 1042z	23 Aug	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	1033 - 1034z	24 Aug	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
	1108 - 1121z	26 Aug	(In tfc) V GKVZ (x3) DE Q7NW (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
			(1108z) (In tfc - 4 fig cut nrs - 1108z)		
			AR NR 227 CK 301 44 0826 1900 BT (1111z) (Probably repeat of msg)		
			A7D5 6UA5 4ADT (Cont'd)		
		(1121z)	AR (Back to R/S - 1121z)		
<u>5801//10180</u>	1136 - 1137z	25 Aug	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
	1304 - 1305z	27 Aug	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (GT Hong Kong)	JPL	MON
	1311 - 1315z	27 Aug	(In tfc) V DKG6 (x3) DE 3A7D (x2) (Cont'd) (GT Hong Kong)	JPL	MON
		(1311z)	(In tfc) CK 199 19 0827 2.. RMKS CQ BT BT 6AND 4NA 4T7U UNT...(Cont'd) AR (Return to R/S		
1320z)					
	1250 - 1251z	29 Aug	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (GT Hong Kong)	JPL	WED
<u>6773//8040</u> (6773 only)	1035 - 1036z	17 Aug	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
	1032 - 1033z	21 Aug	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
	1043 - 1044z	23 Aug	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	THU
(8040 only)	1031 - 1032z	24 Aug	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
	1048 - 1049z	25 Aug	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
	1112 - 1119z	25 Aug	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
	1125 - 1130z	25 Aug	(Msg sent) V H2FL (x3) DE DRV8 (x2)(Cont'd) (GT Hong Kong)	JPL	SAT
			(In progress - 1125z) 1955/220//20/08 AR (Return to R/S - 1126z)		
	2210 - 2211z	25 Aug	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
	1107 - 1108z	26 Aug	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1127 - 1128z	26 Aug	V H2FL (x3) DE DRV8 (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
<u>6840//10640</u>	1119 - 1124z	17 Aug	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	FRI
	1120 - 1625z	23 Aug	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	THU
	1019 - 1024z	24 Aug	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	FRI
	0320 - 0325z	25 Aug	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	SAT
	1119 - 1124z	25 Aug	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	SAT
	1219 - 1224z	25 Aug	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	SAT
	1121 - 1126z	26 Aug	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (GT Hong Kong)	JPL	SUN
<u>7582//8110</u> (7582 only)	0230 - 0231z	17 Aug	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
(8110 only)	2352 - 2353z	19 Aug	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	0302 - 0303z	25 Aug	V 7NPE (x3) DE QV5B (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
<u>7602//NRH</u>	1651 - 1652z	17 Aug	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
<u>8789//10779</u> (10779 Only)	1029 - 1030z	17 Aug	V WITN (x3) DE GNXG (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
	1125 - 1126z	17 Aug	V WITN (x3) DE GNXG (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
	2354 - 2355z	19 Aug	V WITN (x3) DE GNXG (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1143 - 1144z	20 Aug	V WITN (x3) DE GNXG (x2) (Cont'd) (GT Hong Kong)	JPL	MON
	1028 - 1029z	21 Aug	V WITN (x3) DE GNXG (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
(10779 Only)	0256 - 0257z	23 Aug	V WITN (x3) DE GNXG (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	1027 - 1028z	24 Aug	V WITN (x3) DE GNXG (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
(10779 Only)	0206 - 0207z	25 Aug	V WITN (x3) DE GNXG (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
(10779 Only)	0304 - 0305z	25 Aug	V WITN (x3) DE GNXG (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
	1044 - 1045z	25 Aug	V WITN (x3) DE GNXG (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
(10779 Only)	2319 - 2320z	29 Aug	V WITN (x3) DE GNXG (x2) (Cont'd)	JPL	WED
			Note: This was a surprise being able to hear GNXG direct in Canada!		
<u>10180//NRH</u>	1032 - 1033z	17 Aug	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
	1127 - 1128z	17 Aug	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (GT Hong Kong)	JPL	FRI
	1145 - 1146z	20 Aug	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (GT Hong Kong)	JPL	MON
	1030 - 1031z	21 Aug	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (GT Hong Kong)	JPL	TUE
	1126 - 1127z	23 Aug	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (GT Hong Kong)	JPL	THU
	1046 - 1047z	25 Aug	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (GT Hong Kong)	JPL	SAT
	1105 - 1106z	26 Aug	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1132 - 1133z	26 Aug	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (GT Hong Kong)	JPL	SUN
	1142 - 1143z	27 Aug	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (GT Hong Kong)	JPL	MON

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

SK01 (Data Mode generic classification, Cuban TX's) See Control List & comments in Issue 49 which still apply, **also piece after logs describing the new SK01 transmission format**

RDFT system (Redundant Digital File Transfer)

July 2012:

5880	0802z	17 Jul	QRN5 End uk	Ggs	TUE
5898	0500z	20 Jul	Clear End 0547z	Ggs	FRI
6768	1601z	19 Jul	QRM4 End ?1651z?	Ggs	THU
8009	2300z	09 Jul	Series of data bursts that started about 15 secs. after end of msg followed by one long data burst	Ggs	MON
9063	0615z	18 Jul	QRN5/QRM4 (Caught in progress) End ukn	Ggs	WED
9124	0600z	15 Jul	Good reception. End 0631z. Noise at 0601z. First data burst at 0605z. one every 5 mins. total of 6	Ggs	SUN
11433	0615z	18 Jul	QRN5/QRM4 (Caught in progress) End ukn	Ggs	WED

August 2012:

5898	0756z	28 Aug	SK01 - brief transmission	DanAR	TUE
5930	0930z	16 Aug	End ukn	Ggs	THU
8186	0804z	04 Aug	End ukn	Ggs	SAT
	1000z	07 Aug		Ggs	TUE
	0800z	11 Aug		Ggs	SAT
9063	0900z	08 Aug		Ggs	WED
	0930z	27 Aug	Data bursts every 5 minutes		
9240	1000z	29 Aug	Data unknown type QSA5 What was supposed to be V02a at 1000z is now a data burst every few minutes.	HT	WED
11435	0600z	27 Aug		Ggs	MON

New SK01 Transmission Format!

On Sunday June 24th at 1000z on 9112kHz a new transmission format was seen in what is normally an M8a slot. The standard format transmissions repeat the same message at 5 minute intervals.

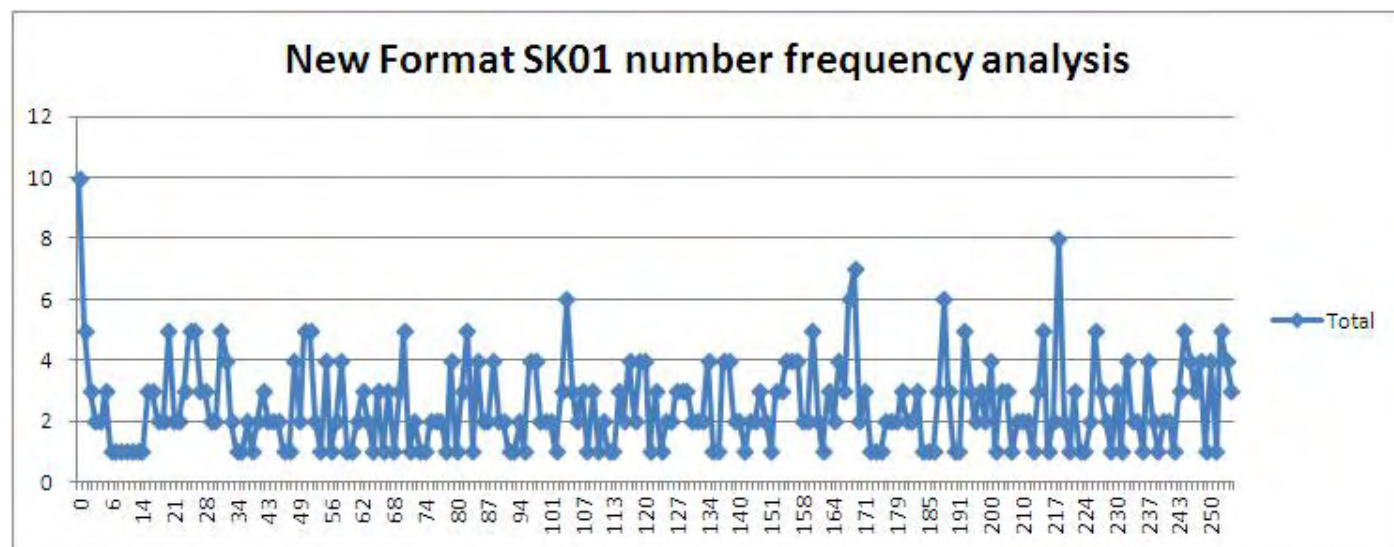
The new TX format consisted of 3 sets of lead in tones (30 seconds followed by a data transmission with no file extension followed immediately by a 10 second lead in tone and another data transmission then another 10 second lead in tone followed by a 3rd data transmission (each data burst was 18 seconds in length). The cycle immediately began repeating with another 3 sets of lead in tones.

The signal was fairly weak but one of the three transmitted messages was identified as 10243321 a 552 byte file with no file extension. The numbers when converted from Hex give the values of 0 to 255.

Frequency analysis of the numbers showed that all were present between 1 and 8 times although 0 appeared 10 times and all of 6 to 14 appeared once only which looks odd in the frequency analysis graph hopefully included.

The sequence of numbers shows some pattern at the start with eight of the 10 zeros appearing in the first 20 of the total 552 characters!

See below.



This transmission format was seen again on July 12th at 1600z on 6768kHz unfortunately with no decode. On this day the transmission continued looping for a full 15 minutes before stopping.

Much different to the full hour or half hour transmissions normally seen.

80 81 1 138 0 137 0 0 109 0 12 0 1 19 2 0 0 5 10 0 27 230 149 101 235 22 124 169 225 227 165 104
16 109 102 238 189 17 155 212 27 87 241 34 195 250 248 176 255 227 23 194 119 28 188 169 118 126 220 21 78 23 121 98
243 68 113 195 63 244 131 126 47 187 79 179 209 231 200 218 169 69 85 117 235 171 24 200 105 64 184 215 202 117 168 197
75 189 192 20 42 131 210 116 74 48 251 21 169 24 107 50 58 65 144 17 130 175 146 19 133 27 250 31 79 20 105 200
165 192 239 246 53 38 26 147 210 160 57 187 115 204 116 9 90 101 76 165 170 157 230 70 178 120 85 119 29 159 82 16
188 26 156 178 80 88 5 197 1 4 247 232 91 226 104 82 87 238 166 255 153 38 83 108 236 54 53 58 247 123 226 104
33 89 106 65 133 193 100 117 50 41 155 86 160 168 99 234 100 50 254 44 30 67 232 70 2 227 160 219 42 244 115 97
215 213 156 20 120 31 224 50 85 174 163 192 17 97 31 253 39 188 137 165 188 24 128 139 240 46 168 11 228 202 218 79
180 32 148 221 43 75 182 138 55 69 243 128 109 26 3 200 99 163 219 98 221 148 228 169 130 250 28 212 60 14 86 148
136 193 28 94 201 157 49 20 248 181 98 49 55 162 164 70 221 244 193 157 216 242 93 88 247 55 192 147 179 168 140 1
117 69 66 215 138 67 187 214 52 169 254 157 32 214 26 79 237 32 171 208 111 18 20 41 18 255 155 120 97 32 134 159
24 26 160 61 120 215 48 104 62 103 134 154 166 89 45 24 61 171 218 48 122 58 254 140 151 183 103 234 177 177 85 129
182 52 229 241 72 106 119 88 70 232 218 240 57 58 183 226 56 253 237 22 107 129 138 183 82 214 137 127 77 112 185 188
44 163 50 55 127 190 134 244 90 149 246 209 81 180 94 156 181 62 248 59 189 225 248 103 217 31 215 139 194 135 127 62
82 115 204 160 218 249 52 1 72 168 154 164 65 128 71 129 105 244 0 134 3 98 161 8 30 45 36 246 73 218 222 180
76 23 97 16 243 232 169 155 67 111 246 82 153 6 88 170 31 33 237 202 254 250 192 154 104 52 191 168 158 43 0 5
104 253 42 122 124 217 230 188 52 253 166 226 146 122 137 110 63 156 186 218 153 4 195 237 107 29 158 226 81 96 77 48
253 204 218 118 2 70 161 119

On to the logs. May/June

SK01 8180kHz 0800z 1/5 sent 84254711.txt 1024 bytes at 5 minute intervals
SK01 5930kHz 0930z 1/5 sent 61535647.txt 1024 bytes at 5 minute intervals
SK01 5930kHz 0930z 8/5 sent 61535647.txt 1024 bytes at 5 minute intervals
SK01 5930kHz 0930z 9/5 sent 45920229.txt 230 bytes at 5 minute intervals
SK01 5930kHz 0930z 8/5 sent 82682225.txt 1024 bytes at 5 minute intervals
SK01 5930kHz 0930z 12/5 sent 61535647.txt 1024 bytes at 5 minute intervals
SK01 8180kHz 0800z 15/5 sent 54551228.txt 1024 bytes at 5 minute intervals
SK01 5930kHz 0930z 15/5 sent 61535647.txt 1024 bytes at 5 minute intervals
SK01 6768kHz 1658z 15/5 sent 18737188.txt 1024 bytes at 5 minute intervals. First and only decode on this frequency since 23/2 due to poor modulation
SK01 5800kHz 0700z 16/5 sent 82538258.txt 1024 bytes at 5 minute intervals
SK01 6768kHz 1658z 16/5 sent 18737188.txt 1024 bytes at 5 minute intervals.
SK01 8180kHz 0600z 17/5 sent 11222144.txt 1024 bytes at 5 minute intervals
SK01 8180kHz 0800z 17/5 sent 11222144.txt 1024 bytes at 5 minute intervals
SK01 6768kHz 1600z 17/5 sent 18737188.txt 1024 bytes at 5 minute intervals.
SK01 12120kHz 0530z 18/5 sent 54551228.txt 1024 bytes at 5 minute intervals.
SK01 5930kHz 0900z 19/5 sent 86166653.txt 1024 bytes at 5 minute intervals. Note full hour on this frequency instead of expected 0930 onward
SK01 9063kHz 0600z 20/5 sent 11222144.txt 1024 bytes at 5 minute intervals until 0630
SK01 8180kHz 0800z 22/5 sent 12577888.txt 1024 bytes at 5 minute intervals
SK01 5800kHz 0700z 23/5 sent 62323873.txt 1024 bytes at 5 minute intervals
SK01 9063kHz 0600z 23/5 sent 26721844.txt 1024 bytes at 5 minute intervals
SK01 6768kHz 1600z 23/5 sent 18737188.txt 1024 bytes at 5 minute intervals.
SK01 9124kHz 0600z 24/5 sent 11222144.txt 1024 bytes at 5 minute intervals until 0630z
SK01 6768kHz 1600z 24/5 sent 18737188.txt 1024 bytes at 5 minute intervals
SK01 8186kHz 0800z 26/5 sent 26721844.txt 1024 bytes at 5 minute intervals
SK01 5930kHz 0930z 26/5 sent 62323873.txt 1024 bytes at 5 minute intervals.
SK01 11435kHz 0600z 28/5 sent 82682225.txt 1024 bytes at 5 minute intervals
SK01 8186kHz 0600z 28/5 sent 82682225.txt 1024 bytes at 5 minute intervals
SK01 5800kHz 0700z 30/5 sent 82538258.txt 1024 bytes at 5 minute intervals
SK01 9124kHz 0600z 31/5 sent 11874857.txt 1024 bytes at 5 minute intervals until 0630z
SK01 8180kHz 0800z 31/5 sent 12577888.txt 1024 bytes at 5 minute intervals
SK01 6768kHz 1600z 31/5 sent 18737188.txt 1024 bytes at 5 minute intervals
SK01 8186kHz 0800z 2/6 sent 86166653.txt 1024 bytes at 5 minute intervals
SK01 5930kHz 0930z 2/6 sent 38367263.txt 1024 bytes at 5 minute intervals.
SK01 9063kHz 0600z 3/6 sent 11874857.txt 1024 bytes at 5 minute intervals
SK01 6768kHz 1600z 4/6 sent 18737188.txt 1024 bytes at 5 minute intervals
SK01 8180kHz 0800z 5/6 sent 54551228.txt 1024 bytes at 5 minute intervals
SK01 5930kHz 0930z 5/6 sent 38367263.txt 1024 bytes at 5 minute intervals then 54551228.txt at 0956
SK01 6768kHz 1600z 5/6 sent 18737188.txt 1024 bytes at 5 minute intervals
SK01 5800kHz 0700z 6/6 sent 78515726.txt 1024 bytes at 5 minute intervals
SK01 9063kHz 0600z 10/6 sent 11874857.txt 1024 bytes at 5 minute intervals
SK01 6768kHz 1600z 11/6 sent 78515726.txt 1024 bytes at 5 minute intervals
SK01 13380kHz 0530z 12/6 sent 11874857.txt 1024 bytes at 5 minute intervals
SK01 8180kHz 0800z 12/6 sent 82682225.txt 1024 bytes at 5 minute intervals
SK01 5930kHz 0930z 12/6 sent 61535647.txt 1024 bytes at 5 minute intervals.
SK01 5800kHz 0700z 13/6 sent 82682225.txt 1024 bytes at 5 minute intervals
SK01 8186kHz 0600z 13/6 sent 82682225.txt 1024 bytes at 5 minute intervals
SK01 8180kHz 0800z 14/6 sent 82682225.txt 1024 bytes at 5 minute intervals
SK01 5930kHz 0930z 14/6 sent 82682225.txt 1024 bytes at 5 minute intervals
SK01 5930kHz 0930z 16/6 sent 82682225.txt 1024 bytes at 5 minute intervals
SK01 8180kHz 0800z 19/6 sent 11874857.txt 1024 bytes at 5 minute intervals
SK01 5930kHz 0930z 19/6 sent 82682225.txt 1024 bytes at 5 minute intervals
SK01 5930kHz 0500z 20/6 sent 82682225.txt 1024 bytes at 5 minute intervals until 0530
SK01 5800kHz 0700z 20/6 sent 78515726.txt 1024 bytes at 5 minute intervals
SK01 6768kHz 1600z 20/6 sent 18737188.txt 1024 bytes at 5 minute intervals
SK01 8180kHz 0800z 21/6 sent 11874857.txt 1024 bytes at 5 minute intervals
SK01 6768kHz 1600z 21/6 sent 18737188.txt 1024 bytes at 5 minute intervals
SK01 5930kHz 0930z 23/6 sent 61535647.txt 1024 bytes at 5 minute intervals
SK01 9112kHz 1030z 24/6 sent 10243321 552 bytes See notes on new format SK01.

July/August

SK01 5930kHz 0930z 3/7 sent 11874857.txt 1024 bytes at 5 minute intervals
SK01 11435kHz 0625z 4/7 sent 82682225.txt 1024 bytes at 5 minute intervals
SK01 8180kHz 0800z 5/7 sent 82682225.txt 1024 bytes at 5 minute intervals
SK01 5930kHz 0930z 5/7 sent 74227815.txt 1024 bytes at 5 minute intervals.
SK01 8186kHz 0800z 7/7 sent 86166653.txt 1024 bytes at 5 minute intervals
SK01 5930kHz 0930z 7/7 sent 61535647.txt 1024 bytes at 5 minute intervals.
SK01 9063kHz 0630z 8/7 sent 11874857.txt 1024 bytes at 5 minute intervals
SK01 8180kHz 0800z 10/7 sent 82682225.txt 1024 bytes at 5 minute intervals
SK01 9063kHz 0630z 12/7 sent 11874857.txt 1024 bytes at 5 minute intervals
SK01 8180kHz 0800z 12/7 sent 82682225.txt 1024 bytes at 5 minute intervals
SK01 6768kHz 1600z 12/7 sent New format 3 X Lead ins followed by 3 messages repeated continuously for 15 minutes. No Decode.
SK01 8186kHz 0800z 14/7 sent 86166653.txt 1024 bytes at 5 minute intervals
SK01 9063kHz 0630z 15/7 sent 11874857.txt 1024 bytes at 5 minute intervals
SK01 8180kHz 0800z 17/7 sent 82682225.txt 1024 bytes at 5 minute intervals
SK01 8186kHz 1000z 17/7 sent 82682225.txt 1024 bytes at 5 minute intervals
SK01 12120kHz 0500z 18/7 sent 82682225.txt 1024 bytes at 5 minute intervals
SK01 5800kHz 0700z 18/7 sent 78515726.txt 1024 bytes at 5 minute intervals
SK01 9063kHz 0630z 19/7 sent 82682225.txt 1024 bytes at 5 minute intervals
SK01 5898kHz 0500z 20/7 sent 78515726.txt 1024 bytes at 5 minute intervals
SK01 9063kHz 0630z 22/7 sent 11874857.txt 1024 bytes at 5 minute intervals
SK01 5930kHz 0930z 24/7 sent 61535647.txt 1024 bytes at 5 minute intervals
SK01 5800kHz 0700z 1/8 sent 78515726.txt 1024 bytes at 5 minute intervals
SK01 5930kHz 0930z 4/8 sent 61535647.txt 1024 bytes at 5 minute intervals
SK01 5930kHz 0930z 11/8 sent 61535647.txt 1024 bytes at 5 minute intervals
SK01 5930kHz 0930z 14/8 sent 61535647.txt 1024 bytes at 5 minute intervals
SK01 5800kHz 0700z 15/8 sent 82682225.txt 1024 bytes at 5 minute intervals
SK01 5930kHz 0930z 16/8 sent 82682225.txt 1024 bytes at 5 minute intervals
SK01 5930kHz 0930z 23/8 sent 82682225.txt 1024 bytes at 5 minute intervals
SK01 5930kHz 0930z 25/8 sent 61535647.txt 1024 bytes at 5 minute intervals
SK01 5930kHz 0930z 28/8 sent 61535647.txt 1024 bytes at 5 minute intervals
SK01 5800kHz 0700z 29/8 sent 78515726.txt 1024 bytes at 5 minute intervals

A lot of the transmissions have been characterized by poor modulation especially it seem the 1600z TX on 6768kHz. The carrier is up most weekdays but the transmission is often barely audible. In the July/August timeframe only 6 different text file names were seen as follows. All being 1024 byte files.

11874857.txt
61535647.txt
74227815.txt
78515726.txt
82682225.txt
86166653.txt

Thanks MaleAnon

Contributors

AB, BR, DanAR, DLBB, DoK, FN, GD, GE, Gert, Ggs, Hans, HFD, HT, JeanmoE2Kde, JPL, kd4kym, Male Anon, PLdn, RNGB, TillmanE2Kde. *Thank you all for your logs.*

VOICE STATIONS

E06 [1A]

PoSW's logs and analysis:

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

5-July-12:- 5,948 kHz, severe interference from an S9+ broadcast station on 5,950. E06 unreadable.

2-Aug-12:- 5,948 kHz, the broadcaster a much weaker signal than on the last occasion,
E06 good signal, call "724", DK/GC "716 716 15 15"

16-Aug-12:- 5,948 kHz, E06 unreadable due to French language broadcaster on 5,950 which was S9+ - and then some!

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

6-July-12:- 5,731 kHz, calling "315", DK/GC "521 521 15 15". Came complete with the rasping noise on the speech noted from time to time in the past on these evening E06 schedules.

20-July-12:- 5,731 kHz, S9 carrier but no voice heard. Was still up at 2148 UTC.

3-Aug-12:- 5,731 kHz, no problems this evening, call "315", DK/GC "540 540 15 15".
S9 signal with good audio.

17-Aug-12:- 5,731 kHz, started approx. 50 seconds before the half hour, "315" and "540 540 15 15" as on the 3rd. Strong signal with no distortion but there was a low - pitched audio tone of perhaps a couple of hundred Hz, thought it might be a heterodyne from a carrier close to 5,731 but when E06 went QRT there was no sign of one so presumably the tone was on the E06 transmission.

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

11-July-12:- 1920 UTC, 5,769 kHz, "154 154 154 00000". Carrier was up on 5,769 half an hour earlier at 1850z.
2020 UTC, 4,783 kHz, second sending. Same pair of frequencies as in June.

8-Aug-12:- 1920 UTC, actually started about 20 seconds early, 5,769 kHz, "154 154 154 00000". S9 signal. After the four minute sending had finished carrier stayed on and E06 OM heard calling "1-2-3-4-5-7-8-9" - no "6" or "0" several times before going off.
2020 UTC, 4,783 kHz, second sending, also started early, was in progress when tuned in 25 seconds before 2020z. No change of frequencies in August.

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

15-July-12:- 1120 UTC, although started the best part of a minute early. 8,025 kHz, "154 154 154 00000", very weak signal but surprisingly clear copy with the receiver in USB mode and the carrier tuned for zero beat. Carrier was noted on 8,025 just before 1100z, same frequency as in June.
1220 UTC, 7,482 kHz, second sending, also very weak. Couldn't find this one in June but no doubt was on the same frequency.

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

5-July-12:- 0500 UTC, 14,580 kHz, call "679", DK/GC "528 528 104 104", close to a strong "XJT".
0600 UTC, 16,090 kHz, second sending, good signal peaking over S9.

6-July-12, Friday:- 0500 UTC, 14,580 kHz first sending of "next day repeat" complete with "XJT".
0600 UTC, 16,090 kHz, second sending, much weaker than yesterday, S5 to S6.

19-July-12:- 0500 UTC, 14,580 kHz, "679" and "528 528 104 104", weak signal with "XJT".
0600 UTC, 16,090 kHz, second sending, weak signal.

20-July-12, Friday:- 0500 UTC, 14,580 kHz, next day repeat, very weak signal and "XJT".
However, was much stronger when checked again at 0515z. Ended 0522z with, "528 528 104 104 00000".
0600 UTC, 16,090 kHz, second sending, very weak, didn't have time to hang around to see if it improved!

2-Aug-12:- 0500 UTC, 13,930 kHz, calling "210", DK/GC "975 975 104 104". S8 signal on a clear frequency
0600 UTC, 15,890 kHz, second sending, also a strong signal on a clear frequency.

3-Aug-12, Friday:- 0500 UTC, 13,930 kHz, next day repeat, first sending, weaker than yesterday, S5.
0600 UTC, 15,890 kHz, second sending, and in contrast with earlier this was stronger than yesterday peaking over S9 although with QSB.

16-Aug-12:- 0510 UTC, 13,930 kHz, missed the 0500z start, transmission in progress, ended just before 0525z with, "975 975 104 104 00000".
Strength S7 to S8.
0600 UTC, 15,890 kHz, second sending.

17-Aug-12, Friday:- 0500 UTC, 13,930 kHz, next day repeat, much weaker than yesterday, only just detectable.
0600 UTC, 15,890 kHz, also much weaker than yesterday.

From RRGB:

E06 log:

July/August

Sunday	15/07	11:20	8025	'154' 00000
Sunday	15/07	12:20	7482	'154' 00000
Thurs	19/07	05:00	14580	'679' 528 104 94994 75783 52762 21035 95430.....
Thurs	19/07	20:30	5948	'724' 926 15 1953?
Thurs	02/08	05:00	13930	'210' 975 104 41611 50002 13244 90351 77877.....32541
Thurs	02/08	06:00	15890	'210' 975 104 41611 50002 13244 90351 77877.....32541
Thurs	02/08	20:30	5948	'724' 716 15 64930 16374 98201 36472 73949.....37284
Friday	03/08	21:30	5731	'315' 540 15 42516 78016 48291 93027 93026.....28493
Thurs	16/08	05:00	13930	'210' 975 104 41611 50002 13244 90351 77877.....32541
Friday	17/08	21:30	5731	'315' 540 15 42516 78016 48291 93027 93026.....28493

Onto others' logs:

July:

5731kHz2036z	06/07[Test Count] 2037z Fair QRN3 QSB3	Spectre	FRI
2130z	06/07[315 521 15 91284 ... 10362 521 15 00000(s)]	(7m06s) PLdn, Spectre	FRI
E06 5731kHz 2129z 06/07 Transcript: 315 521 15 91284 63920 35278 54910 53728 49210 34256 73829 18302 17382 26382 19372 37481 35283 10362 521 15 00000 <i>Courtesy Spectre</i>			
5948kHz2030z	05/07 BCQRM5, odd characters audible	AUTOINTERCEPT	THU
14580kHz 0500z	05/07[679 508 104 Difficult To Copy] Weak QRN4 QSB4	Spectre	THU
0500z	06/07[679 528 104 94994 ... 73964 528 104 00000] Strong signal, strong noise	FR	FRI
679 528 104 94994 78783 52762 21035 95430 38322 60741 04865 71674 91966 26151 93125 95492 05971 82352 63139 81126 64599 90980 99622 09846 37655 93307 45237 51476 31861 85917 72726 93837 81800 94140 45827 16029 60089 41676 61127 66496 11476 39838 88077 31829 40555 44884 49332 07209 07786 56826 08611 04461 13487 58203 58261 58645 74522 16215 23723 19105 23340 96690 27073 35946 84064 63291 76837 77842 05326 60421 76259 42147 54522 03259 67218 43209 03182 23353 51974 89862 58139 43232 59933 88002 18193 78444 51624 29209 60939 90480 77062 51333 89470 39019 30704 81993 93624 06916 70160 00931 05472 96388 90879 82134 53727 19836 73964 00000 <i>Courtesy FR</i>			

August:

5731kHz2130z 2130z	03/08[315 540 15 42516 ... 28493 540 15 00000(s)] 2137z Strong 17/08[315 540 15 42516 78016 ... 28493] 2136z Strong	(6m57s)	PLdn Hans	FRI FRI
5948kHz1944z 2029z	02/08[1 2 3 4 5 6 7 8 9 (R)] 1945z Strong 02/08[724 716 15 64930 ... 37284 716 15 00000(s)] Strong, started 67s early		PLdn PLdn	THU THU
15890kHz0600z 0600z 0600z	02/08Weak, odd characters, '10' 03/08[210 975 104 41611] QSB to nil in places, ran in excess of 20m. 16/08[210] Faded into background, Very weak		PLdn PLdn PLdn	THU FRI THU

E07 [1B]

PoSW's logs and analysis:

Continues to use the same frequencies as in the same month in previous years, so no problem to find!

Sunday + Wednesday Schedule, 1700 UTC Start:-

1-July-12, Sunday:- 1700 UTC, 13,468 kHz, "441 441 441 000", S9 signal with good audio.
1720 UTC, 11,454 kHz, second sending, weaker signal than first sending with a strong "XJT" on a close frequency.

8-July-12, Sunday:- 1700 UTC, 13,468 kHz, "441 441 441 000".
1720 UTC, 11,454 kHz, second sending, the "XJT" is on the HF side and can be suppressed by using the receiver in LSB mode since E07 uses old-school amplitude modulation with a carrier and two side-bands!

11-July-12, Wednesday:- 1720 UTC, 11,454 kHz, "441 441 441 000" with "XJT" for company.

22-July-12, Sunday:- 1700 UTC, 13,468 kHz, "441 441 441 000", strong carrier but audio low.
1720 UTC, 11,454 kHz, second sending, low audio.

29-July-12, Sunday:- 1700 UTC, 13,468 kHz "441 441 441 000" - not much trade for agent 441 in July, then! S9+ with good audio.
1720 UTC, 11,454 kHz, second sending, strong signal over-riding that pesky "XJT"!

1-Aug-12, Wednesday:- 1700 UTC, 13,388 kHz, change of frequencies for August, "305 305 305 000". Strong signal with, by Jove, *excellent* audio!
1720 UTC, 12,088 kHz, second sending, over-riding broadcast stations inside 25 metre band.

12-Aug-12, Sunday:- 1700 UTC, 13,388 kHz, "305 305 305 000", S9 with good audio.
1720 UTC, 12,088 kHz, second sending, flattening all opposition.

Monday + Wednesday Schedule, 1900 UTC Start:-

2-July-12, Monday:- 1904 UTC, 14,812 kHz, "full message" transmission in progress, missed the start. S9+ with good audio.
1920 UTC, 13,412 kHz, "845 845 845 1", DK/GC "538 142" x 2. Strong "XJT" on the same frequency - not slightly off to one side so using receiver in USB or LSB mode to make use of Mr Murata's filter made no improvement.
1940 UTC, 11,512 kHz, third sending, S9 but with deep QSB.

11-July-12, Wednesday:- 1900 UTC, 14,812 kHz, "845 845 845 000", S9+ with good audio.

23-July-12, Monday:- 1900 UTC, 14,812 kHz, "845 845 845 1", DK/GC "841 131" x 2. Strong signal with reasonable audio.
1920 UTC, 13,412 kHz, second sending, flattened by "XJT", best of luck with that, agent 845!
1940 UTC, 11,512 kHz, third sending, S9+ with good audio, best sending of the three.

1-Aug-12, Wednesday:- 1900 UTC, 14,378 kHz, "349 349 349 000", with a strong "XJT" close by - seems to come free with at least one out of three E07s!
1920 UTC, 13,458 kHz, second sending, good signal, reasonable audio.

6-Aug-12, Monday:- 1900 UTC, 14,378 kHz, "349 349 349 000", with "XJT".

Thursday Schedule, 2010 UTC Start:-

5-July-12:- 2010 UTC, 11,539 kHz, "553 553 553 1", low audio and broadcast station interference making for difficult copy for DK/GC and 5Fs.
2030 UTC, 10,547 kHz, second sending, DK/GC "931 52" x 2. S9+ carrier, seemed to have a rapid flutter as though from some kind of low frequency instability in the transmitter.
2050 UTC, 9,388 kHz, third sending, audio low but readable.

12-July-12:- 2010 UTC, 11,539 kHz, "553" and "931 52", as last time. Reception best with receiver in LSB mode to remove broadcaster on HF side.
2030 UTC, 10,547 kHz and 2050 UTC, 9,388 kHz, repeats.

19-July-12:- 2010 UTC, 11,539 kHz, "553 553 553 000"

2-Aug-12:- 2010 UTC, 10,753 kHz, "716 716 716 000", strong signal with good audio.
2030 UTC, 9,147 kHz, second sending, good signal.

9-Aug-12:- 2010 UTC, 10,753 kHz, "716 716 716 1", DK/GC "425 43" x 2. S9+ with good audio.
2033 UTC, 9,147 kHz, second sending in progress, missed the start. S9 with QSB.
2050 UTC, 7,637 kHz, third sending, S9+.

16-Aug-12:- 2010 UTC, 10,753 kHz, “716 716 716 1”, DK/GC “425 43” x 2, same as last week.
 2030 UTC, 9,147 kHz, second sending, vanished with carrier for about one second during the call-up routine, came back, went off again just as the 5Fs started. Carrier returned, short burst of tone, call-up started again after 2033 UTC, DK/GC again 2034 and 25s UTC and into 5Fs without further incident.
 2050 UTC, 7,637 kHz, third sending, S9 with good audio.

Wednesday E07a SSB Schedule, 2000 UTC Start:-

4-July-12:- 2000 UTC, 8,173 kHz, “147 147 147 000”, S9+ SSB signal.
 2020 UTC, 7,473 kHz, second sending, strong signal, heterodyne from BC station on 7,475.

11-July-12:- 2020 UTC, 7,473 kHz, missed first sending, “147 147 147 1 30704”, DK/GC “538 77” x 2, strong signal with usual broadcaster on HF side.
 2040 UTC, 5,773 kHz, third sending, strong signal.

25-July-12:- 2000 UTC, 8,173 kHz, “147 147 147 000”, S9+.

1-Aug-12:- 2000 UTC, 8,173 kHz, “147 147 147 000”, S9+ as usual.

15-Aug-12:- 2000 UTC, 8,173 kHz, “147 147 147 000”, S9+.
 2020 UTC, 7,473 kHz, second sending, very strong signal over-riding broadcast opposition.

RNGB's logs:

E07 log:

July/August

Sunday	08/07	17:00	13468	'441' 000
Wedn	11/07	19:00	14812	'845' 000
Thursd	12/07	20:10	11539	'553' 1 931 52 14828 00063 84629 35272.....
Wedn	18/07	19:00	14812	'845' 000
Wedn	25/07	19:00	14812	'845' 1 841 131 06728 65141 87627 67545.....
Wedn	01/08	19:20	13458	'349' 000
Monday	06/08	19:00	14378	'349' 000
Thurs	09/08	20:30	9147	'716' 1 425 43 00758 62950 24763 67181.....61350
Wedn	15/08	19:00	14378	'349' 1 411 54 83724 88725 62158 35088.....
Wedn	15/08	19:20	13458	'349' 1 411 54 83724 88725 62158 35088.....
Thurs	16/08	20:10	10753	'716' 1 425 43 00758 62950 24763 67181.....61350
Sunday	19/08	17:40	10504	'305' 1 192 124 15140 93344 29185 96541.....
Wedn	22/08	17:00	13388	'305' 1 192 124 15140 93344.....
Wedn	22/08	19:20	13458	'349' 000
Wedn	22/08	20:00	8173	'147' 000
Thurs	23/08	20:10	10753	'716' 000

Onto others' logs:

July:

9388kHz2040z	05/07[553 1 931 52 14828 000.....000 000]2057 S2 fading	M8, FR	THU
10126kHz1740z	18/07[441 1 341 55 14428 ... 51014 000 000] Strong signal, strong noise, fading	FR	WED
10547kHz2030z	05/07[553 1 931 52 14828 000.....000 000]2037 S4 fading	M8, FR	THU
	553 1 931 52 14828 00063 84629 35272 01327 29682 67799 35991 53928 91075 66007 12183 85540 72554 *9294 *2443 69415 59675 04048 74030 29090 *8210 44185 88772 32200 **424 57396 50745 90090 *1879 62267 13304 35269 18*45 42951 99729 5*40* 55*94 *4914 *8400 64801 594** 384*0 98417 *0144 63569 996*7 712** 80799 5757* 59*** 79895 000 000		
	Courtesy FR		
2030z	26/07 QRM5	PLdn	THU
11454kHz1720z	01/07[441 000]Strong	FR	SUN
1720z	04/07[441 441 441 000] 1722z Fair QRN3 QSB3	Spectre	WED
1720z	11/07[441 441 441 000] 1722z Weak QRN4 QSB4	Spectre	WED
1720z	18/07[441 1 341 55 14428 ... 51014 000 000] Barely audible	FR	WED
1720z	25/07[441 000] Fair	(2m13s) PLdn,M8	WED
11512kHz1930z	02/07[845 1 538 142 82936 ... 16102 000 000] 1957z Fair QRN3 QSB4	Spectre, PLdn	MON
1940z	04/07[845 1 538 142 82936 ... 16102 000 000] Strong	(16m45s) PLdn	WED
1940z	23/07[845 1 841 131 06728 ... 91795 000 000]Strong carrier, fair audio	(15m45s) PLdn, HJH	MON

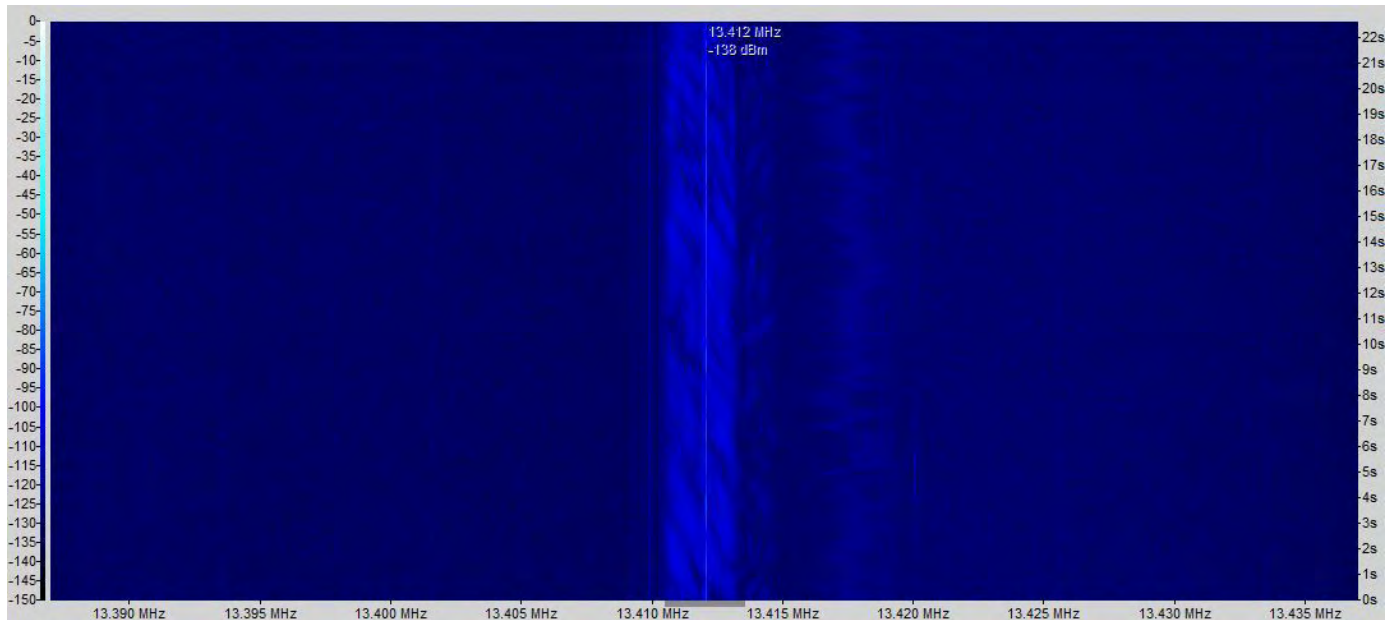
11512kHz 1940z	25/07[845 1 841 131 06728 ... 91795 000 000] Very strong	(15m45s) PLdn,M8	WED
----------------	--	------------------	-----

845 1 841 131
06728 65141 87627 67545 98801 10143 66376 28375 89489 94991
25320 91999 86853 51216 12025 38002 40541 42012 75438 95586
54479 53549 61979 52732 40799 08362 75189 46978 32919 42050
14052 63930 06934 17136 24017 67333 02014 11660 22729 83796
77716 13414 18305 39446 87738 53457 36877 50327 69697 37100
07466 09413 74164 05407 38169 85479 58459 05947 24774 38237
09931 98554 26717 00857 80172 31613 51674 73901 99659 02421
34211 03465 97098 89574 33753 91443 47716 23226 20851 83793
34799 85995 95987 30393 18358 52509 66076 92506 54318 81539
54435 56166 58484 26962 83636 77713 80450 95966 18452 55890
84730 76344 29859 84656 87969 94928 05544 32348 89903 65274
66432 28039 12202 76948 49473 23686 42080 55423 57213 20429
57831 71188 16499 17733 36330 84908 02703 61300 00338 68922
91795 000 000
Courtesy FR

11539kHz 2010z	05/07[-] Bleeding from Voice of Korea (11535kHz) too strong to make anything out	FR, HJH	THU
2010z	26/07[553 000] Weak	(2m13s) PLdn	THU

12141kHz 1720z	08/07[414 000] Veryweak	PLdn	SUN
----------------	-------------------------	------	-----

13412kHz 1920z	02/07[845 1 538 142 82936 ... 16102 000 000] 1937z Fair STANAGQRM3 QSB3	Spectre, PLdn	MON
1920z	04/07[845 1 538 142 82936 ... 16102 000 000] XJTQRM4/5	(16m45s) PLdn	WED
1920z	11/07[845 845 845 000] 1922z Fair QRN3 QSB3 Spectre WED		
1920z	23/07 XJTQRM5	PLdn, HJH	MON
1920z	25/07 NRH	PLdn	WED
1920z	30/07 XJTQRM5, with carrier, see below	PLdn	MON



13412kHz 1920z 30/07 XJTQRM5, with carrier

13468kHz 1700z	01/07[441 000] Weak, QRM3	(2m13s) PLdn	SUN
1700z	04/07[441 441 441 000] 1702z Fair QRN3 QSB3	Spectre	WED
1700z	08/07[414 000] Very weak	PLdn	SUN
1700z	11/07[441 000] Weak	Spectre, PLdn	WED
1700z	18/07[441 1 341 55 14428 ... 51014 000 000] Strong signal, moderate noise	(8m03s) FR, PLdn	WED

441 1 341 55
14428 45017 05355 79111 95581 44221 23422 50085 66025 48300
85699 17740 94025 15368 09202 97485 82645 60861 81757 37829
15489 32948 67387 48806 85274 45289 18978 32804 65851 20835
34121 67467 15766 09430 58045 13620 17034 36931 10503 06615
81850 34732 63287 17767 35355 51890 42934 76446 96142 16243
95690 87056 02024 64690 51014 000 000
Courtesy FR

1700z	22/07[441 000] 1702z Weak	(2m13s) PLdn	SUN
1700z	25/07[441 000] Strong	(2m13s) PLdn,M8	WED

14812kHz1900z	02/07[845 1 538 142 82936 ... 16102 000 000] 1917z Fair QRN3 QSB3	Spectre, FR	MON
<p>E07 14812/13412/11512kHz 02/07 Transcript:</p> <p>845 1 538 142 82936 60983 32221 11949 71537 05463 50799 50701 07777 73233 57795 01310 67688 78121 94157 22626 22078 24598 88878 12750 47358 42197 29745 62762 27460 43547 42120 17796 70830 91460 31317 83062 08263 53791 33942 92325 08837 94973 98384 92742 59070 26340 03814 22635 43287 22087 53745 32112 34805 27198 99284 91167 04427 31248 49988 26434 90531 03854 18334 14486 26434 90531 03854 18334 14486 67119 30237 34392 16844 55170 71754 08673 95324 72870 96764 53027 86496 04102 34003 86351 36381 40895 16402 33940 83692 90489 57972 69486 84616 53000 94363 22865 64645 84013 46435 70109 43531 81289 83793 83279 16300 74165 04258 25585 80879 25386 28822 02843 41151 02820 72309 86584 50641 18323 23942 36435 33037 81392 31955 38435 39340 99177 07910 20090 00348 99963 57475 63702 83274 65115 73708 65044 48279 91246 80060 99382 15368 70451 86170 61574 61206 85688 94476 93440 61510 42334 16102 000 000</p> <p><i>Courtesy Spectre</i></p> <p>Spectre notes that the group count was supposed to be 142, but there are 157 five fig groups in the message.</p>			
1900z	04/07[845 1 538 142 82936 ... 16102 000 000] Strong	(16m45s) PLdn	WED
1900z	11/07[845 845 845 000] 1902z Fair QRN3 QSB3	Spectre	WED
1900z	18/07[845 000] Strong signal, moderate noise	(8m03s) FR, DanAr, PLdn	WED
1900z	23/07[845 1 841 131 06728 ... 91795 000 000] Strong, QRM2 QSB2	(15m45s) PLdn	MON
1900z	25/07[845 1 841 131 06728 ... 91795 000 000] Fair	(15m45s) PLdn,M8	WED
August:			
9147kHz2030z	09/08[716 1 425 43 00758.....000 000]2038z S9	M8	THU
10505kHz1740z	08/08[305 1 404 45 74585 ... 77553 000 000] Strong NEW FREQ [was 10118kHz]	(7m06s) M8,PLdn	WED
<p>305 1 404 45 74985 67387 04333 27590 43024 79932 87441 40270 25102 97601 18085 55378 05910 27275 90098 03333 00465 68216 62015 36144 76489 52856 80038 43824 40650 93508 96101 50745 59372 60552 93310 18764 84964 69735 05223 70157 16529 50914 02879 62563 22356 20161 83406 38987 77553 000 000</p> <p><i>Courtesy M8</i></p>			
1740z	19/08[305 1 192 124 15140 ... 94640 000 000] Fair	(14m46s) PLdn, FR, MP	SUN
1740z	22/08[3051 192 124 15140 93344 39185 96541...] 1755z Strong QRN3 QSB3	MP	WED
10753kHz2010z	09/08 [716 1 425 43 00758 ... 61350 000 000]2017 S9+10	M8	THU
<p>716 1 425 43 00758 62950 24763 67181 45148 47061 33034 65797 18438 51343 87055 60580 25036 50412 81147 86320 11422 28601 12666 63862 98565 62613 62213 82489 68679 95339 98764 40530 49519 00747 50483 87156 13892 74647 52003 71507 97023 49810 95986 79181 87402 61350 000 000</p> <p><i>Courtesy M8</i></p>			
10958kHz1940z	13/08[349 1 411 54 83724 ... 99937 000 000] Fair, Break in transmission at call-up	(8m00s) PLdn, M8	MON
1940z	15/08[349 1 411 54 83724 ... 99937 000 000] Strong, buzz on carrier. Faulty Tx?	(8m00s) PLdn, FR	MON
<p>349 1 411 54 83724 88725 62158 35088 67193 29337 83846 21295 83628 87728 43602 58391 29089 17162 7998682989 83288 80955 73101 38976 32870 18075 48783 33379 5846533918 73724 00059 68371 14552 66046 97170 16546 66455 8369642350 07077 61876 41178 29831 55365 59554 65903 62197 7023059927 06876 85163 26346 84974 07545 01148 51624 99937 000 000</p> <p><i>Courtesy FR</i></p>			
12088kHz1720z	01/08[305 000] Strong	(2m13s) PLdn	WED
1720z	05/08[305 1 404 45 74585 ... 77553 000 000] Fair, QRM3	(7m06s) PLdn	SUN
1720z	08/08[305 1 404 45 74585 ... 77553 000 000] Strong	(7m06s) M8,PLdn	WED
1720z	12/08[305 000] Weak	(2m13s) PLdn	SUN
1720z	15/08[305 000] Strong, QRM2	(2m13s) PLdn, FR	WED
1720z	19/08[305 1 192 124 15140 ... 94640 000 000] Fair	FR, MP	SUN
<p>305 192 124 15140 93344 09185 96541 31130 44051 92227 66081 61837 12743 05491 78790 08567 55664 19456 43390 74361 56480 61401 89891 61229 04532 64496 52545 36809 00571 75822 6***1 01017 45770 28429 82699 22618 39844 30686 12567 21808 79471 89895 48340 89676 89979 97515 12507 31705 27439 84138 91065 31668 65106 03017 86189 20304 72512 65971 *1709 00875 95334 *7780 86093 02997 78659 26272 9403* 79946 61186 59104 *8770 36901 48673 *1952 21562 10475 56691 68945 49530 83831 55227 86519 18231 01040 62969 81165 6*484 97387 403** 77085 54890 50513 29769 98440 06385 76699 73995 18677 09528 19000 89767 77414 66557 45451 31879 30659 6*008 798** *6818 80458 5486* ***** *49** 788*3 87446 *8087 64257 03825 95063 80931 13350 *543* 58138 10311 43220 58694 94640 000 000</p> <p><i>Courtesy FR</i></p>			
1720z	26/08[305 000] 1722z Strong	Hans	SUN
1720z	29/08[305 000] Very strong	(2m14s) PLdn	WED

13388kHz	1700z	01/08[305 000] Fair	(2m13s)	PLdn	WED
	1700z	05/08[305 1 404 45 74585 ... 77553 000 000] Strong	(7m06s)	PLdn, DLBB	SUN
	1700z	08/08[305 1 404 45 74585 ... 77553 000 000] Strong	(7m06s)	M8,PLdn	WED
	1700z	12/08[305 000] Weak	(2m13s)	PLdn	SUN
	1700z	15/08[305 000] Strong	(2m13s)	PLdn, FR	WED
	1700z	19/08[305 1 192 124 15140 ... 94640 000 000] Fair	(14m46s)	PLdn, FR, MP	SUN
	1700z	26/08[305 000] 1702z Strong		Hans	SUN
	1700z	29/08[305 000] Weak, noisy, PULSEQRM3	(2m14s)	PLdn	WED
13458kHz	1920z	01/08[349 000] Good 1923z QRM3 QSB3		MP	WED
	1920z	06/08[349 000] Good 1923z QRM2 QSB3		MP, HJH	MON
	1920z	08/08[349 000] 1902z Strong, XJTQRM2	(2m13s)	PLdn	WED
	1920z	13/08[349 1 411 54 83724 ... 99937 000 000] Very strong	(8m00s)	PLdn, M8	MON
	1920z	15/08[349 1 411 54 83724 ... 99937 000 000] Weak, XJTQRM3/4	(8m00s)	PLdn, FR	MON
	1920z	20/08[349 000] Fair	(2m13s)	M8, PLdn	MON
	1920z	27/08[349 000] Fair	(2m13s)	PLdn	MON
	1920z	29/08[349 000] Strong	(2m13s)	PLdn	WED
14378kHz	1900z	01/08[349 000] Strong, QRM		FR	WED
	1900z	08/08[349 000] 1902z Strong, XJTQRM2	(2m13s)	PLdn	WED
	1900z	13/08[349 1 411 54 83724 ... 99937 000 000] Weak, XJTQRM3/4	(8m00s)	PLdn, M8	MON
	1900z	15/08[349 1 411 54 83724 ... 99937 000 000] Strong	(8m00s)	PLdn, FR	MON
	1900z	20/08[349 000] Weak, XJTQRM3	(2m13s)	M8, PLdn	MON
	1900z	27/08[349 000] XJTQRM5		PLdn	MON
	1900z	29/08[349 000] Strong, XJTQRM2	(2m13s)	PLdn	WED
E07a					
July:					
5773kHz	2040z	11/07[147 1 30704 53877 12210 ... 17664 000 000] Very strong	[previously 20/06]	Spectre,PLdn	WED
	2040z	18/07[147 1 68986 423 46 44743 ... 05563 000 000] Strong signal, moderate noise		FR, PLdn, Spectre	WED
7437kHz	0430z	05/07[411 411 411 000] 0432z Fair QRN3 QSB2		Spectre	THU
	0430z	12/07[411 1 30704 538 77, repeat from 21/06] Strong signal, moderate noise, fading		FR, PLdn, Spectre	THU
	0430z	19/07[411 1 68986 4263 46 44743 ... 05563 000 000] Very strong	(6m23s)	Spectre, PLdn	THU
	0430z	26/07[411 000] Very strong	(2m13s)	PLdn	THU
7473kHz	2020z	04/07[147 000] Very strong	(2m13s)	Spectre, PLdn	WED
	2020z	11/07[147 1 30704 53877 12210 ... 17664 000 000] Very strong, BCQRM2	[previously 20/06]	Spectre, PLdn	WED
	2020z	18/07[147 1 68986 423 46 44743 ... 05563 000 000] Strong signal, pause during 22nd group (5...9092		FR, PLdn, Spectre	WED
	2020z	25/07[147 000] Very strong	(2m13s)	PLdn	WED
8137kHz	0450z	05/07[411 411 411 000] 0452z Fair QRN3 QSB2		Spectre	THU
	0450z	12/07[411 1 30704 538 77 12210 ... 17664 000 000] 0458z Fair QRN3 QSB2		Spectre	THU
	0450z	19/07[411 1 68986 4263 46 44743 ... 05563 000 000] Very strong	(6m23s)	Spectre,PLdn	THU
	0450z	26/07[411 000] Very strong	(2m13s)	PLdn	THU
8173kHz	2000z	04/07[147 000] Very strong, XJTQRM2	(2m13s)	Spectre, GD	WED
	2000z	11/07[147 1 30704 53877 12210 ... 17664 000 000] Very strong	[previously 20/06]	PLdn, Spectre	WED
E07a 8173/7473/5773kHz 11/07 2000/2020/2040z Transcript: 147 1 30704 538 77 12210 81091 59779 07174 42412 60082 46623 30222 45906 04138 75869 17605 11041 52019 89082 92905 34810 63544 65837 04682 96652 78311 81891 08498 21528 08360 52539 54420 21303 43559 90592 50572 80471 74685 87241 08467 39139 29334 70327 24315 93592 35295 68516 46874 09665 36697 27653 54199 02077 50010 98241 64691 58628 93607 87556 83438 72126 53340 91579 74757 74757 71328 07992 52499 59871 39442 63329 90974 57428 94169 63774 43956 61291 81089 93475 91788 32068 17664 000 000 Courtesy Spectre					
2000z	18/07[147 1 68986 4263 46 44743 ... 05563 000 000] Very strong		(6m23s)	PLdn, Spectre	WED
147 1 68986 423 46 44743 66059 30530 51812 58621 86826 87954 92946 27406 51164 95705 27856 73407 20846 63862 17905 11989 67292 09677 44909 47789 59092 05578 46178 30990 32348 94491 24004 17198 07620 62829 02616 94697 02308 29480 86013 64561 28039 62155 78028 13053 51429 62871 34643 13160 05563 000 000 Courtesy FR					
2000z	25/07[147 000] Very strong, XJTQRM2		(2m13s)	PLdn,M8	WED
9137kHz	0510z	12/07[411 1 30704 538 77 12210 ... 17664 000 000] Strong, QRM2 AUTOINTERCEPT	(8m45s)	PLdn	THU
E07a 7437/8137/9137kHz 12/07 0430/0450/0510z Transcript: 411 1 30704 538 77 12210 81091 59779 07174 42412 60082 46623 30222 45906 04138 75869 17605 11041 52019 89082 92905 34810 63544 65837 04682 96652 78311 81891 08498 21528 08360 52539 54420 21303 43559 90592 50572 80471 74685 87241 08467 39139 29334 70327 24315 93592 35295 68516 46874 09665 36697 27653 54199 02077 50010 98241 64691 58628 93607 87556 83438 72126 53340 91579 74757 74757 71328 07992 52499 59871 39442 63329 90974 57428 94169 63774 43956 61291 81089 93475 91788 32068 17664 000 000 Courtesy Spectre					
0510z	19/07[411 1 68986 4263 46 44743 ... 05563 000 000] Very strong		(6m23s)	PLdn	THU

12173kHz0800z	14/07[198 1 31916 918 48 21458 18594.....25431]		RNGB	SAT
0800z	21/07[198 000] Weak	(2m13s)	PLdn	SAT
0800z	28/07[198 000] Very strong	(2m13s)	GD,PLdn	SAT
13973kHz0820z	14/07[198 1 31916 918 48 21458 18594.....25431]		RNGB	SAT
0820z	21/07[198 000] Strong	(2m13s)	PLdn	SAT
0820z	28/07[198 000] Very strong	(2m13s)	PLdn	SAT
14873kHz0840z	14/07[198 1 31916 918 48 21458 18594.....25431]		RNGB	SAT

August:

7437kHz0430z	02/08[411 000] Very strong	(2m13s)	PLdn	THU
0430z	09/08[411 000] Very strong	(2m13s)	PLdn	THU
0430z	16/08[411 000] Very strong	(2m13s)	PLdn	THU
0430z	23/08[411 000] Very strong	(2m13s)	PLdn	THU
0430z	30/08[411 000] Very strong	(2m13s)	PLdn	THU
7473kHz2020z	01/08[147 000] Very strong	(2m13s)	PLdn	WED
2020z	08/08[147 000] Very strong	(2m13s)	PLdn	WED
2020z	15/08[147 000] Strong, BCQRM2	(2m13s)	PLdn	WED
2020z	22/08[147 000] Strong	(2m13s)	PLdn	WED
2020z	29/08[147 000] Strong, BCQRM2	(2m13s)	PLdn	WED
8137kHz0450z	02/08[411 000] Very strong	(2m13s)	PLdn	THU
0450z	09/08[411 000] Very strong	(2m13s)	PLdn	THU
0450z	16/08[411 000] Very strong, ttyQRM2	(2m13s)	PLdn	THU
0450z	23/08[411 000] Very strong	(2m13s)	PLdn	THU
0450z	30/08[411 000] Very strong, TTYQRM2	(2m13s)	PLdn	THU
8173kHz2000z	01/08[147 000] Very strong	(2m13s)	PLdn, FR	WED
2000z	08/08[147 000] Strong, XJTQRM2	(2m13s)	PLdn	WED
2000z	15/08[147 000] Strong	(2m13s)	PLdn, FR	WED
2000z	22/08[147 000] Strong	(2m13s)	PLdn	WED
2000z	29/08[147 000] Very strong	(2m13s)	PLdn	WED
12177kHz0800z	04/08[148 000]Weak	(2m13s)	PLdn, GD	SAT
0800z	18/08[148 000]Weak	(2m13s)	PLdn, GD	SAT
0800z	25/08[148 000]Very strong	(2m13s)	PLdn	SAT
13477kHz0820z	04/08[148 000] Fair		PLdn	SAT
0820z	04/08[148 000] Fair	(2m13s)	PLdn	SAT
0820z	18/08[148 000] Fair	(2m13s)	PLdn	SAT
0820z	25/08[148 000] Strong, QRM2	(2m13s)	PLdn	SAT
16138kHz0745z	28/08 in prog, ending 000 000		MP	TUE
***85 33199 89584 59912 33743 62294 57571 71751 61061 25120 94354 13304 28637 03907 07531 20838 41352 48348 14201 75374 54398 10445 42546 11124 93563 63929 16481 73521 86194 35976 78205 33739 75785 80347 67483 64585 55995 55984 23742 87235 98424 28817 38854 25708 05354 97154 92162 18796 55716 08304 94384 10333 78898 32429 49073 05352 000 000 Courtesy MP				

PoSW's logs and analysis of Saturday transmission:

Saturday E07a SSB Schedule, 0800 UTC Start:-

28-July-12:- 0800 UTC, 12,173 kHz, "198 198 198 000", strong SSB signal.

0820 UTC, 13,973 kHz, second sending, weaker, S5 to S6. Unaware of this schedule until seeing it in the E2K Newsletter, managed to forget to search for it until today.

4-Aug-12:- 0800 UTC, 12,177 kHz, "148 148 148 000". Change of frequency for August then, so this schedule does not use two blocks of frequencies, one for spring and summer and one for autumn and winter as the Wednesday E07a does.

0820 UTC, 13,477 kHz, second sending.

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

18-Aug-12:- 0800 UTC, 12,177 kHz and 0820 UTC, 13,477 kHz, still "no message".

25-Aug-12:- 0800 UTC, 12,177 kHz and 0820 UTC, 13,477 kHz, "148 148 148 000", both transmissions S9 to S9+, strongest signals so far from this 9 o'clock Saturday schedule.

E11(III)

July/August

4909KHz 0900z	23/08 [248/00] 0903z Scarcely Perceptible		Marco	THU
6280kHz 0820z	02/07 [438/00] 0823z Very Weak QRN3 QSB3		Spectre	MON
0820z	05/07 [438/00] Out 0823z Very weak		Malc	THU
0820z	12/07 [438/00] 0823z Fair QRN2 QSB2		Spectre	THU
0820z	16/07 [438/00]		RNGB	MON
0820z	30/07 [438/00]		RNGB	MON
0820z	09/08 [438/00] Out 0823z S1		Malc	THU
0820z	20/08 [438/00] Out 0823z S1		Malc	MON
0820z	27/08 [438/00] Fair		RNGB	MON

8088kHz	1730z	26/07 [416/00]	RNGB	THU
	1730z	02/08 [416/00] Good	RNGB	THU
	1730z	23/08 [416/00] Good	RNGB	THU
9150kHz	2000z	13/07 [576/00] Good	RNGB	FRI
	2000z	03/08 [576/00] Strong	RNGB	FRI
	2000z	10/08 [576/00]	IanW	FRI
9610kHz	1045z	10/07 [469/00] 1048z Weak QRN3 QSB4	Spectre	TUE
	1045z	17/07 [469/00] 1048z Fair QRN4 QSB3	Spectre	TUE
	1045z	24/07 [469/00] Out 1048z S5	Malc	TUE
	1045z	01/08 [469/00] Strong signal, moderate noise	Fox	WED
	1045z	08/08 [469/00] Out 1048z S1	Malc	WED
10800kHz	0450z	16/07 [416/00] 0453z Weak QRN4 QSB3	Spectre	MON
	0450z	27/08 [416/00] 0453z Fair	Hans	MON
12924kHz	0829z	02/07 [649/00] Out 0833z S1	Malc, Spectre	MON
	0830z	12/07 [649/00] 0833z Very Weak QRN3 QSB3	Spectre	THU
	0830z	23/07 [649/00] Out 0833z S5	Malc	MON
	0830z	30/07 [649/00]	RNGB	MON
	0830z	13/08 [649/00] Out 0833z S3	Malc	MON
	0830z	20/08 [649/00] Out 0833z S2	Malc	MON
	0830z	23/08 [649/00]	RNGB	THU
	0830z	27/08 [649/00] Good	RNGB	MON
13424kHz	0645z	05/07 [517/00] 0648z Fair QRN3 QSB3	Spectre	THU
	0645z	12/07 [517/00] 0648z Fair QRN3 QSB3	Spectre	THU
	0645z	24/07 [517/00]	RNGB	TUE
	0645z	26/07 [517/00]	RNGB	THU
	0645z	02/08 [517/00] Good	RNGB	THU
	0645z	07/08 [517/00] Good	RNGB	TUE
	0645z	16/08 [517/00]	RNGB	THU
13427kHz	0900z	02/07 [534/00] Out 0903z S2	Malc, Spectre	MON
	0900z	04/07 [534/00] 0903z QRM2 MP	Marco	WED
	0900z	11/07 [534/00]	RNGB	WED
	0900z	16/07 [534/00] 0903z Weak QRN4 QSB3	Spectre	MON
	0900z	23/07 [534/00] Out 0902z S6	Malc	MON
	0900z	30/07 [534/00]	RNGB	MON
	0900z	01/08 [534/00]	RNGB	WED
	0900z	06/08 [534/00]	RNGB	MON
	0900z	08/08 [534/00] Out 0903z S5	Malc	WED
	0900z	15/08 [534/00] Weak	RNGB	WED
14753kHz	0710z	03/07 [633/00] 0713z Weak QRN4 QSB3	Spectre	TUE
	0710z	17/07 [633/00] Fair	RNGB	TUE
	0710z	20/07 [633/00] Out 0713z S5	Malc	FRI
	0710z	24/07 [633/00]	RNGB	TUE
	0710z	31/07 [633/00]	RNGB	TUE
	0710z	03/08 [633/00] Weak	RNGB	FRI
	0710z	17/08 [633/00]	RNGB	FRI
15632kHz	0745z	10/07 [335/00] Weak	RNGB	TUE
	0745z	12/07 [335/00] Weak	RNGB	THU
	0745z	02/08 [335/00] Weak	RNGB	THU
	0745z	16/08 [335/00]	RNGB	THU
	0745z	23/08 [335/00] Weak	RNGB	THU
	0745z	28/08 [335/00] Weak	RNGB	TUE
16125kHz	1045z	10/07 [576/00]	RNGB	TUE
	1045z	24/07 [576/00] Out 1048z S9	Malc	TUE
16335kHz	1155z	02/08 [718/00]	RNGB	THU
	1155z	08/08 [718/00] Out 1158z S5	Malc	WED
	1540z	19/08 [228/00] 1544z fair QRM2	Marco	SUN

E11a
Julv/August

6280kHz	0820z	23/07 [436/32 "ATTENTION" 29007 75806.....43842] Out 0829z S2	Malc, Fox	MON
	0820z	16/08 [432/36 29542 47135 68828 71690 24415.....] Weak	RNGB	THU
8088kHz	1730z	05/07 [411/36 76628 06074 81364 85389 80891.....94299] Strong	Fox	THU
	1730z	16/08 [415/34 29124 25572 94819 40901 41354.....83512] Good	RNGB	THU
9150kHz	2000z	17/08 [579/36 17880 25338 18975 03287 59621.....75343] Good	RNGB	FRI
10487kHz	1710z	13/07 [953/20 02207 32557 31259 54373 36050.....88500] Weak	RNGB, Spectre	FRI
	1710z	20/07 [957/21 64557 31645 59852 32106 34889.....78162] Fair	RNGB	FRI
	1710z	27/07 [957/20 86646 27994 08436 91025 19403.....45912] Weak	RNGB	FRI
	1710z	30/07 [953/20 and message start 38196]	Peter Poelstra	MON
	1710z	03/08 [957/20 60803 48200 92226 22903 71940.....37776]	RNGB	FRI

10487kHz	1710z	06/08 [953/21 30085 99890 89896 70075 63137.....25661] Good	RNGB	MON
	1710z	17/08 [957/21 61101 43786 00631 19495 15898.....21440] Good	RNGB	FRI
	1710z	23/08 [953/23 44034 34429 75976 64634 95504.....68926] Good	RNGB	FRI
	1710z	27/08 [953/21 88983 43564 79601 12159 55935.....30762] Good, Out 1717z	RNGB	MON
12924kHz	0830z	16/07 [644/28 89015 88480 67766 73734 61794.....83450] Weak	RNGB	MON
	0830z	06/08 [646/31 93461 15924 04399 79242 87336.....03374] Good	RNGB	MON
	0830z	09/08 [646/36 "ATTENTION" 93461 15924 04399.....03374] Out 0839z S5	Malc	THU
13424kHz	0645z	17/07 [512/35 00929 06384 35490 83373 36784.....08860] Fair	RNGB, Spectre	TUE
	0545z	01/08 [347/37 00453 8269? 44956 00553 40685.....20767]	RNGB	WED
	0645z	23/08 [519/32 78157 78453 16422 51999 73476.....50676] Fair	RNGB	THU
13427kHz	0900z	16/07 [537/30 16782 25114 42345 88207 41884.....88502] Weak	Malc, RNGB	MON
	0900z	18/07 [537/30 16782 etc] repeat of Monday. Weak	RNGB	WED
	0900z	20/08 [533/32 "ATTENTION" 09207 99062 23320.....05891] Out 0909z S2	Malc	MON
	0900z	22/08 [533/32 09207 99062 23320 59613 70985.....05891] Fair	RNGB	WED
14518kHz	1810z	28/08 [987/10 06386 16146 95832 94286 93252.....85983] Strong, Out 1815z	RNGB	TUE
14753kHz	0710z	10/07 [630/30 10538 68657 02262 35726 14211.....60640] Weak	RNGB	TUE
	0710z	13/07 [630/30 10538 etc] repeat of Tuesday	RNGB	FRI
	0710z	07/08 [635/34 64335 14994 76608 06694 19849.....67086] Weak	RNGB	TUE
15632kHz	0745z	24/07 [333/37 91436 24429 18410 81649 84585.....56479]	RNGB	TUE
	0745z	07/08 [333/30 23393 97530 38383 80313 63293.....71409] Weak	RNGB	TUE
	0745z	09/08 [333/30 "ATTENTION" 23393 97530 38383.....71409] Out 0754z S3	Malc	THU
16335kHz	1155z	11/07 [719/32 Attention 89593 ... 81814 Out] 1204z Weak QRN3 QSB3	Spectre	WED
	1155z	22/08 [716/37 38722 69483 12484 18699 99568.....20351] Fair	RNGB	WED
	1540z	26/08 [225/36 Attention...53476 87592 79713..... 96726] out 1551z Weak	Marco	SUN
16388kHz	1110z	20/07 [958/31 11734 84789 61529 88578 23377.....61748] Good	RNGB	FRI
	1110z	27/07 [950/31 84035 24964 67348 42245 41468.....93646] Weak	RNGB	FRI
	1110z	30/07 [952/31 82818 69385 35115 82719 09643.....] Fair	RNGB	MON
	1110z	06/08 [952/31 25054 71715 60695.....] Very weak	RNGB	MON
	1110z	13/08 [956/31 78792 26826 32745 63468 90783.....57123] Out 1119z S2	Malc	MON
	1110z	17/08 [956/31 55576 84904 27154 70096 68737.....90468] Out 1118z S3	Malc	FRI

E11c

July/August

8102kHz	2000z	03/07 [757/0000/00] 2003z Fair QRN3 QSB3	Spectre	TUE
	2000z	10/07 [757/2000/00] Good	RNGB	TUE
	2000z	17/07 [757/2100/00] Strong	RNGB	TUE
	2000z	24/07 [757/1000/00] Out 2003z S7	Malc, RNGB	TUE
	2000z	14/08 [757/2100/00] Very strong	DLBB	TUE
	2000z	21/08 [757/1100/00] Strong	RNGB	TUE
	2000z	28/08 [757/2100/00] Strong	RNGB	TUE
10487kHz	1925z	23/08 [758/0000/00] Good	RNGB	THU

E17z

July:

12850kHz	0800z	12/07[674 Heard Call Only] 0805z Very Weak QRN3 QSB4	Spectre	THU
16780kHz	0800z	05/07[674Rest U/R]	GD	THU
	0800z	12/07[674 Rest U/R]	GD, Spectre	THU
	0800z	19/07[674 820 5 33796 13577 74526 46647 79302] Weak, QSB	RNGB	THU
	0800z	26/07[820 5 33796 13577 74526 46647 79302 00000]	GD, FN	THU

August:

GD writes 02/08, Usual problem with E17z on 16780, call 674 perfectly readable for 3.5 minutes, then fades out when sending the message.
0810 on 12850 Just the same plus heavy QRM.

12850kHz	0810z	02/08[674] with heavy QRM	GD	THU
	0810z	09/08[674 912 5 07348 98560 53039 48985 80647 912 5 00000]0815z S2	M8	THU
	0810z	16/08[674 235 8 46531 23264 78564 80856 22154 66437 87851 78921 235 8 0 0 0 0 0]QRM QSA2	JO	THU
	0810z	23/08[674 235 8 46531 23264 78564 80816 23154 66437 87851 78931 235 8 0 0 0 0 0] QSA2/3	JO	THU
16780kHz	0800z	02/08[674] fades out on msg	GD	THU
	0800z	09/08[674 912 5 07348 98560 53039 48985 80647 912 5 00000] Weak, readable RNGB, GD,	M8	THU
	0800z	16/08[674 235 8 46531 23264 78564 80856 22154 66437 87851 78921 235 8 0 0 0 0 0] 0805z	JO,MP, GD	THU

E23 [XI] Frequencies and Times. All SSB [From AnonUK]

Since December 2004 skeds have become erratic, and may not stick to correct weeks. Some voice transmissions have been heard in week 2
 Week 1 Usually starts on the first Monday of the Month, but there have been variations to this.

Times are not rigid, has been known to start as early as Hour + 52 [Tnx AnonUK]. Week 2 was M04 Not heard since September 2000

	Week 1		Week2		Week 3		Week 4	
	Time	Freq	Time	Freq	Time	Freq	Time	Freq
Monday	0957	6507			0757	4832	0757	5340
	1157	8188			0957	6200	0957	8188
	1257	5340			1157	8188	1157	7250
					1257	6507		
Wednesday	0957	6507			0757	4832	0757	5340
	1157	8188			0957	6200	0957	8188
	1257	5340			1157	8188	1157	7250

E25 [O]**July:**

9450kHz0941z 21/07 MP SAT

950

30 grps

5841 0276 1764 5036 9428 4940 9451 0287 4006 3719
 2513 7030 9356 4581 0167 0680 5573 9027 6379 2971
 0764 3497 1135 8807 3040 7972 3010 0759 5764 2628

An 0951z they switched to 6140 kHz, but this time the YL had echo. The transmission kept repeating following the usual procedure (1000 Hz tone, YL calling etc) till 1426z. Since I wasn't near my radio for that long, they may went off air for brief periods of time.

Both transmissions were AM and near the end of the session, signal strength was very good

9450kHz1205z 30/07[tone 752 ... 752 tone MSG ... RBT ... EOM tone] 1210z QSA2 YL Fanis MON

9450kHz1213z 30/07[song 835 835 MSG RBT.. EOM EOT Second TX msg was 9999 repeated] 1222z QSA2 YL Fanis MON

August:

9450kHz1200z 02/08 [tone 275 275... MSG... RBT ... EOM EOT MSG : 5051 280... 280 (280 Rx14)] 1205z QSA2 YL Fanis THU

9450kHz1243z 16/08[440 5180 5080 5240 9727 4818 3961 4808 5240] 1249z tone, YL, QSA5, QSB2 MG THU

9450kHz1317z 16/08[780 9351 1070 9240 9145 9393 1034 3732] 1324z tone, YL slow, QSA5 MG THU
 Manolis reports: YL sounded like a tape recording played at a slower speed.

9450kHz1318z 26/08[780 3292 2051 9120 1814 6385 6617 9330 8673 6716 0536 7455 3795 7410 3976 9120] 1324z tone, EOM only, QSA5 MG SUN
 serial/gc grp... 2051 repeated grp.... 9120
 Previous E25 log included a message to 780 but without the repeated group.

9450kHz1315z 27/08[tone 780..MSG..RBT..EOM EOT] 1320z QSA2 YL Fanis MON

E25a

6140kHz1028z 25/07[675 7?]1031z YL, difficult copy MG WED
 An AM transmission, carrier off-frequency, low signal strength, difficult to copy.

G06[1A]

PoSW's logs and analysis

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

12-July-12:- 6,887 kHz, calling "842", DK/GC "209 209 15 15", signal strength varying S5 to S7, FSK signal on LF side.

26-July-12:- 6,887 kHz, "842" and "209 209 15 15" again, good signal on a clear frequency.

9-Aug-12:- 6,887 kHz, started approx. 40 seconds before the half hour. Call "842", DK/GC "325 325 15 15". Good signal, no interference.

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

13-July-12:- 5,943 kHz, call "218", DK/GC "116 116 15 15", good signal on a clear frequency inside the 49 metre broadcast band.

27-July-12:- 5,943 kHz, "218" and "116 116 15 15" as on the 13th.

10-Aug-12:- 5,943 kHz, started early, call-up in progress when tuned in 30s before the half hour. Call "218", DK/GC "163 163 15 15". S9 signal on a clear frequency. Perhaps evidence of the decline in short wave broadcasting? I am sure there was a time not so very long ago when the 49 metre band would be packed with powerful stations at this time of the evening in English as well as other European languages.

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

2-July-12:- 1700 UTC, 5,284 kHz, calling "154" for a full message - most unusual for this schedule - very weak signal, only just detectable.

1800 UTC, 4,896 kHz, second sending, started early, call-up in progress when tuned in a few seconds before the hour. Very weak, still in progress and just a little bit stronger when checked again 1825z. Ended approx. 1837z, sounded like DK/GC "822 822 121 121" and the usual "00000".

Couldn't find a "next day repeat" on Tuesday 3rd, so was either not the usual format or was so weak as to be inaudible.

Other's logs:

July:

5943kHz1930z	13/07[218 116 15 73920 ... 43728 116 15 00000] Strong signal, moderate noise	FR, Spectre	FRI
1930z	27/07[218 116 15 73920 ... 43728 116 15 00000(s)] Weak, QSB2 (6m33s)	JO, PLdn	FRI
	218 116 15 73920 64719 47288 64924 53710 53829 86361 43428 19547 38294 43728 19362 17382 38901 43728 116 15 00000 <i>Courtesy FR, Spectre</i>		
	Note that the 11th and 15th group are the same.		
6887kHz1830z	12/07[842 209 15 53821 ... 43261 209 15 00000]	EL	THU
	842 209 15 53821 12638 42987 60153 27493 05401 36272 42819 26491 29104 64729 26194 36291 37290 43261 209 15 00000 <i>Courtesy Elmar</i>		
1830z	26/07[842 209 15 53821 ... 43261 000 000] Strong	PLdn	THU
6948kHz0800z	02/07[215.....00000]0825z too weak to copy	M8	MON
0800z	16/07 with long message – but too weak to copy	RNGB	MON
0800z	23/07[215....msg too weak to copy.....]0825z S1	M8	MON
0800z	30/07[215 364 77 21180 29167 ... 07133] 0825z Fair QSB2	Hans	MON

August:

5943kHz1930z	10/08[218 163 15] variable signal, QRM, QSB unable to copy	FR	FRI
1930z	24/08[218 163 15 15263 ... 84032 163 15 00000(s)] 1937z Strong	(6m58s) PLdn	FRI
6887kHz1830z	09/08[842 325 15 53829 ... 29173 325 15 00000(s)] 1837z Strong	(6m37s) PLdn	THU
1830z	23/08[842 325 15 53829 ... 29173 325 15 00000(s)] 1837z Strong, XJTQRM2	(7m09s) PLdn	THU
6948kHz0800z	13/08[215 very weak....00000]0903z S1	M8	MON
0800z	20/08[215 215 215 00000.....]0802z S1	M8	MON
0800z	27/08[215 00000]0803z QSA3	MP, Hans	MON

RNGB's logs for July and August:

July/August

Thurs	26/07	18:30	6887	'842' 209 15 53821 10638 42987 60153 27493.....43261
Friday	27/07	19:30	5943	'218' 116 15 73920 64719 47288 64924 53710.....43728
Monday	30/07	08:00	6948	'215' 364 77 21180 29167 48414 92515 36392.....
Monday	06/08	08:00	6948	'215' 00000
Monday	06/08	17:00	5284	'154' 00000
Monday	27/08	08:00	6948	'215' 00000

G11(III)

July/August

3815kHz	2000z	01/07 [262/00] Strong signal, moderate noise	Fox	SUN
	2000z	08/07 [262/00]	RNGB	SUN
	2000z	13/07 [262/00]	RNGB	FRI
	2000z	15/07 [262/00] Ende 2003z Strong	(3m22s) PLondon	SUN
	2000z	22/07 [266/35 A 12606..... 82210] Ende 2010z Strong	(10m21s) PLondon	SUN
	2000z	27/07 [262/00] Ende 2003z Weak, QRM2	(3m16s) PLondon	FRI
	2000z	29/07 [262/00] Fair with QRM	Gary	SUN
	2000z	03/08 [262/00] Ende 2003z Strong	(3m23s) PLondon	FRI
	2000z	05/08 [262/00] Ende 2003z Strong 1758z	(3m23s) PLondon	SUN
	2000z	10/08 [266/35 A51184 ... 99399] Ende 2010z Strong	(10m22s) PLondon	FRI
	2000z	17/08 [262/00]	RNGB	FRI
	2000z	19/08 [262/00] Good	RNGB	SUN
	2000z	26/08 [262/00] 2003z Strong w/poor audio	Hans	SUN

5815kHz	1755z	01/07 [270/00] Strong signal, moderate noise	Fox	SUN
	1755z	03/07 [278/32 Achtung 82929 ... Ende] 1804z Fair STANAGQRM4 QSB3	Spectre	TUE
	1755z	08/07 [278/32 82929 35736 17074 00243 70616.....90780]	RNGB	SUN
	1755z	10/07 [270/00] 1758z Fair QRN2 QSB2	Spectre	TUE
	1325z	13/07 [290/38 93177 53640 23892 22732 57516.....33135]	Elmar	FRI
	1755z	15/07 [270/00] Ende 1758z Strong	(3m23s) PLondon	SUN
	1755z	17/07 [270/00]	RNGB	TUE
	1755z	22/07 [270/00] Ende 1758z Strong	(3m23s) PLondon	SUN
	1755z	29/07 [270/00] Ende 1758z Strong	(3m23s) PLondon	SUN
	1325z	03/08 [295/36 ...]Very weak with strong noise	DLBB	FRI
	1755z	05/08 [270/00] Ende 1758z Strong 1758z	(3m19s) PLondon	SUN
	1325z	24/08 [299/00] 1328z QSA3	Marco	FRI
	1755z	26/08 [270/00] 1758z Strong BC-QRM3	Hans	SUN
	1755z	28/08 [270/00] Strong	RNGB	TUE

S06

We start with Richard's report:

S06 log July:

Saturday	7th	19:00	11438	'314' 00000
		19:30	7884	'843' 00000
		20:00	6916	'416' 00000
		20:00	9432	'314' 00000
Monday	9th	19:00	7982	'349' 00000
		19:15	13505	'376' 280 139 31076 91916 82015 68296 24243.....00595
Monday	16th	19:05	6984	'349' 00000

S06s report July:

ID 328 reverted to null sending from at least the 11th and possibly the 4th of the month and still sending nulls at the beginning of August. Using 9824/10541/10912/11425/11824/12413kHz

ID 425 reverted to null sending on 19th July using 11123/11816/12574/13145/13910/14814

Still no reports as to the whereabouts of IDs 176, 371, 418 and 872 (they must be out there!)

E17z (the only English language ID from this group) has repeated S06s messages. See log below.

Many messages this month have been very common repeats. (See below under Repeated messages)

S06s log July:

Monday

2nd/9th	1200/1210	10230/12165	'831' 479 5 20336 17301 88554 32045 36398
16th/23rd			'831' 204 5 21767 53672 11834 81022 36903

Tuesday

3rd/10th	0600/0610	16735/15230	'438' 210 5 57440 10597 23521 47660 92883
17th/24th			'438' 270 5 47665 94092 48521 63888 92060
3rd/10th	0700/0715	5430/6780	'374' No reports
17th/24th			'374' 591 6 53516 25616 56079 96813 14199 42036
3rd/10th	0800/0810	14373/12935	'352' 890 6 82707 06123 22536 88280 84116 31670
17th/24th			'352' 971 6 05899 50387 45847 23013 89758 48758
3rd/10th	1500/1510	6666/7744	'537' 284 6 89758 52343 79628 42432 56075 46281
17th/24th			'537' 219 6 58219 50514 76667 80823 73964 57910

Wednesday

4th/11th	0530/0540	11435/12650	'153' 968 7 15009 33795 14600 92918 97067 41438 03092
18th/25th			'153' 268 7 11171 64385 82707 06124 22536 88280 53718
4th/11th	0730/0740	7335/11830	'745' 980 6 17358 82218 65974 57623 88154 15751
18th/25th			'745' 209 6 21767 53672 11834 81022 36903 41412
4th/11th	0820/0830	6755/5835	'471' 905 6 53754 42788 64580 61384 96959 89345
18th/25th			'471' 203 5 46062 68672 97478 39685 30485
11th	0840/50/00/10/20/30	9824/10541/10912/11425/11824/12413	'328' 00000
18th/25th			'328' 00000
4th/11th	1000/1010	14580/16020	'729' 803 5 67423 89674 34215 89563 09841
18th/25th			'729' 403 5 52401 63919 92699 14600 72438
4th/11th	1200/1210	7765/6815	'481' 205 6 46312.....
18th/25th			'481' 502 6 09394 76911 75155 92918 97067 58604
4th/11th	1230/1240	7545/8220	'967' 413 5 24540 62500 19564 66912 51550
18th/25th			'967' 823 5 88620 58069 61732 745-7 57440

Thursday

5th/12th	0800/0810 (E17z)	16780/12850	'674' 915 8 33796 13577 74526 46647 79302 53516 25616 56069
19th/6th			'674' 820 5 33796 13577 74526 46647 79302
5th/12th	0900/0910	12952/13565	'167' 290 5 52401 63919 92699 14600 47248
19th/26th			'167' 932 5 26320 36793 53038 76342 15009
5th/12th	0930/0940	9255/7630	'314' No reports
19th/26th			'314' 270 5 46431 28760 89076 36574 11096
5th/12th	1200/1210	12155/14535	'425' 913 6 48754 65125 41879 84648 42036 76911
19th/26th	00/10/20/30/40/50	11123/11816/12574/13145/13910/14814	'425' 00000

Friday

6th/13th	0600/0610	7845/9125	'196' 478 5 48834 53735 61088 02440 59354
20th/27th			'196' 487 5 47783 47098 56483 46381 11890
6th/13th	06000610	8720/10415	'934' 560 7 47891 23247 17099 94961 35826 65906 77233
20th/27th			'934' 582 6 70957 45361 11209 45671 77342 09801
6th/13th	0930/0940	10290/9655	'516' 403 7 39534 17228 15636 47891 23247 17099 94961
20th/27th			'516' 209 7 67546 89706 45312 23165 78453 89671 45431

Saturday

7th	1200/1210	12460/10250	'254' No reports
-----	-----------	-------------	------------------

Repeated groups:**Mon 16th July 2012**

Weds 18th/25th 2012			'831' 204 5 21767 53672 11834 81022 36903
Thursday	1 Apr 2010	09.00	12,952	'167' 492 5 21676 53672 11834 81022 36903
Tuesday	16 Feb 2010	08.00	10,265	'352' 970 6 21767 35672 11834 81022 36903 41412
Thursday	1 Apr 2010	12.10	13,065	'425' 973 6 21767 35672 11834 81022 36903 41412
Thursday	17 Nov 2011	12.00	12,155	'425' 903 6 21767 53672 11834 81022 36903 41412

Weds 18th July 2012

Weds 7 Dec 2011	19.00	8,530	'153' 268 7 11171 64385 82707 06124 22536 88280 53718
			'371' 520 6 11171 64385 82707 06123 225-6 78280

Weds 18th/25th July 2012

Weds 16 Jun 2010	19.00	10,170	'471' 203 5 46062 68672 97478 39685 30485
Saturday 27 Mar 2010	10.10	7,340	'371' 829 5 46062 67672 97478 39685 30485
Thursday 17 Nov 2011	09.00	12,952	'893' 407 5 46062 68672 97478 39685 30485
Tuesday 13 Dec 2011	07.00	5,250	'167' 945 8 46062 68672 97478 39685 30485 96632 52537 53317
			'371' 265 8 46062 68672 97478 39685 30485 96632 52537 53317

Weds 18th/25th July 2012

Thursday 5th/12th July 2012	0900	12952	'729' 403 5 52401 63919 92699 14600 72438
Tuesday 21 Dec 2010	12.30	5,810	'167' 290 5 52401 63919 92699 14600 47248
Friday 18 Nov 2011	07.10	8,215	'278' 409 5 52401 63919 92699 14600 74248
Friday	25 Nov 2011	07.00	7,150	'196' 843 5 52401 63919 92699 14600 74248
Weds 22 Jun 2011	07.30	7,335	'196' 843 5 52401 63919 92699 14600 74248
			'745' 892 6 52401 63919 92699 14600 74248 48754

Weds 18th/25th July 2012

Saturday 17 Apr 2010	10.10	7,340	'481' 502 6 09394 76911 75155 92918 97067 58604
			'893' 210 5 09394 76911 75155 92918 96067

Weds 18th/25th July 2012

Weds 7 Dec 2011	12.00	7,030	'967' 823 5 88620 58069 61732 745-7 57440
Tuesday 6 Jul 2010	08.00	7,245	'481' 509 6 88620 58069 61732 74537 57440 10597
			'418' 967 5 88620 68069 61732 74537 57440

5th/12th	0800/0810 (E17z)	16780/12850		'674' 915 8 33796 13577 74526 46647 79302 53516 25616 56069

19th/6th				'674' 820 5 33796 13577 74526 46647 79302
Weds	7 Jul 2010	05.30	11,435	'153' 294 6 33796 13577 74526 46646 79302 52516
Thursday	4 Mar 2010	12.00	10,580	'425' 810 6 33796 13577 74526 46647 79302 53516
Weds	15 Jun 2011	08.40	10,120	'328' 957 6 33796 13577 74526 46647 79302 53516

This July's messages are in **bold** type

S06 log August:

Thursday	2nd	08:30	16327	'842' 196 30 groups (weak)
		19:05	6984	'349' 00000
Saturday	4th	16:00	8157	'134' 00000
		19:00	11438	'314' 00000
		19:00	7847	'416' 00000
		19:35	6783	'843' 00000
		20:00	9432	'314' 00000
		20:00	6916	'416' 00000
Monday	6th	19:05	6984	'349' 00000
Thursday	16th	19:00	7982	'349' 00000
Friday	17th	08:30	16327	'842' 916 32 93552 62234 46395 36511 86417.....64384
		09:30	13875	'842' 916 32 93552 62234 46395 36511 86417.....64384
Saturday	18th	16:05	6983	'134' 00000
		20:00	6916	'416' 00000
		20:00	9432	'314' 00000
Thursday	23rd	19:05	6984	'349' 00000

S06s report August:

ID 371 has moved from its Wednesday evening slot to Mondays at 0700/0710 using 8221/9353

ID 745 started sending nulls from the 8th of the month on 9395/9645/9933 and 11637 (just 4 frequencies instead of the usual 6)

Starting at 0740. Despite 2 weeks of searching nothing else was found at 0730 or 0820

The 4th week found ID 745 moving times to 0800/0810 on 12110/14977 still sending 00000

ID 328 returned to message sending and normal schedule on the 8th of the month.

ID 153 vanished from the scene from the 15th of the month. Previously this station has moved to 0800/0810 when null sending, but nothing found this month so far!

ID 425 returned to message sending on the 9th using normal schedule.

S06s log August:**Monday**

27th	0700/0710	8221/9353		'371' 208 5 18290 47638 76902 34290 10925
6th/13th	1200/1210	10230/12165		'831' 452 6 40613 66610 20336 17302 32045 24041
20th/27th				'831' 495 6 87463 56473 89201 98073 23546 77109

Tuesday

7th/14th	0600/0610	16735/15230	'438' 216 5 47854 65125 41879 84646 42036
21st/28th			'438' 219 5 78326 56473 19027 89891 12367
7th/14th	0700/0715	5430/6780	'374' 508 6 45202 22623 82551 54567 21874 42543
21st/28th			'374' 506 8 08527 79200 05507 82616 32447 54139 15901 52630
7th/14th	0800/0810	14373/12935	'352' 807 6 65518 35286 28464 53239 50056 09175
21st/28th			'352' 916 7 73195 23689 55860 10952 45556 15660 12828
7th/14th	1500/1510	6666/7744	'537' 240? Very weak
21st/28th			'537' 841 6 78635 45312 80967 45326 56563 12111

Wednesday

1st/8th	0530/0540	11435/12650	'153' 926 7 83981 24035 48115 24151 51802 23807 15521
1st	0730/0740	7335/11830	'745' 208 6 67545 78674 89563 09785 12315 56534
8th/15th	0740/50/0800/10	9395/9645/9933/11637	'745' 00000
22nd	0800/0810	12110/14977	'745' 00000
1st/8th	0820/0830	6755/5835	'471' 209 5 67453 79856 13215 78563 80945
15th/22nd			'471' 238 5 08527 79200 05507 82616 32447

1st	0840/50/00/10/20/30	9824/10541/10912/11425/11824/12413kHz	'328' 00000
-----	---------------------	---------------------------------------	-------------

8th	0840/0850	10120/9670	'328' 590 6 29256 95845 56158 53538 01903 73244
15th/22nd			'328' 597 6 04705 77200 70414 69280 68555 11825
1st/8th	1000/1010	14580/16020	'729' 801 5 67453 89673 13265 89645 09532
15th/22nd			'729' 860 5 56738 70951 76308 74860 20687
1st/8th	1200/1210	7765/6815	'481' 572 6 67453 89674 56423 12316 89856 90867
15th/22nd			'481' 937 5 73208 65255 44161 09548 25831
1st/8th	1230/1240	7545/8220	'967'
15th/22nd			'967' 834 5 50312 29037 16146 51174 56893

Thursday

2nd/9th	0800/0810 (E17z)	16780/12850	'674' 912 5 07348 98560 12039 48981 80647
16th/23rd			'674' 235 8 46531 23264 78564 80856 23154 66437 87851 78931
2nd/9th	0900/0910	12952/13565	'167' 943 5 25810 14622 09192 33586 92042
16th/23rd			'167' 294 5 53421 89674 56423 18576 33219
2nd/9th	0930/0940	9255/7630	'314' 926 ??
16th/23rd			'314' 278 5 45325 78645 89760 90532 12185

2nd	1200/10/20/30/40/50	11123/11816/12574/13145/13910/14814	'425' 00000
-----	---------------------	-------------------------------------	-------------

9th/16th	1200/1210	12155/14535	'425' 830 6 52457 55534 98743 47532 54297 83255
23rd			'425' 973 6 91827 56473 90806 24358 55618 69110

Friday

3rd/10th	0600/0610	7845/9125	'196' 453 7 90769 98928 27990 56922 12654 38348 61080
17th/24th			'196' 874 5 67423 89674 13214 56434 76849
3rd/10th	06000610	8720/10415	'934' 527 6 73177 00796 23576 93929 33366 04800
17th/24th			'934' 275 6 67543 89674 45423 12164 78645 90785
3rd/10th	0930/0940	10290/9655	'516' 408 7 86320 58069 61732 74537 57440 10597 23521
17th/24th			'516' 893 7 08527 79200 05507 82616 32447 54139 71689

Saturday

4th	1200/1210	12460/10250	'254' 981 6 24035 48115 24151 51802 23807 64385
-----	-----------	-------------	---

Repeated groups:

Weds	15/08/2012	08:20	6755	471 238 5 08527 79200 05507 82616 32447
Friday	17/08/2012	09:30	10290	516 893 7 08527 79200 05507 82616 32447 54139 71689
Tuesday	28/08/2012	07:15	6780	374 506 8 08527 79200 05507 82616 32447 54139 15901 52630

Onto other's messages:

S06**July:**

6783kHz1935z	14/07[843 00000] 1939z Weak STANAGQRM3 QSB3	Spectre	SAT
6983kHz1605z	14/07[134 00000]1609 S5	M8	SAT
6984kHz1905z	05/07[349 00000] Very strong signal, moderate noise	FR, Spectre	THU
1905z	16/07[349 00000.....]1908z S9+10	M8,Spectre	MON
1905z	30/07[349 00000] 1909z Fair QRM2 QSB2	MP	MON
7982kHz1900z	02/07[349 00000] 1904z Fair QRN3 QSB2	Spectre	MON
1900z	12/07[349 00000] 1904z Strong QRN3 QSB2	Spectre	THU
8157kHz 1600z	14/07[134 00000] 1604z Fair QRN3 QSB2	Spectre	SAT

August:

4896kHz1800z	13/08[154 00000]1803z S7	M8	MON
5284kHz1700z	13/08[154 00000]1703z S1	M8	MON
6916kHz2000z	04/08[416 00000] 2004z weak QRM1 QSB2	MP, Hans	SAT
6983kHz1605z 1935z	11/08[134 00000.....]1609z S3 25/08[843 00000] 1939z Strong	M8 Hans	SAT SAT
7847kHz1900z	04/08[416 00000] 1904z Strong	Hans	SAT
11438kHz1900z	04/08[314 00000] 1904z Fair	Hans	SAT

S06b No Reports**S06c** No Reports**S06e** No Reports**S06s****July:**

5835kHz0820z 0820z	04/07[471 905 6 53754 42788 64580 61384 96959 89345 905 6 00000(s)] 0825z Weak QRN3 QSB3 11/07[471 905 6 53754 42788 64580 61384 96959 89345 905 6 00000(s)] 0825z Fair QRN3 QSB3	Spectre Spectre	WED WED
6666kHz1500z 1500z 1500z	10/07[537 284 6 89758 52343 79628 42432 59095 46281 284 6 00000(s)] 1505z Weak QRN3 QSB4 17/07[537 219 6 58219 50514 76667 80823 73964 57910 219 6 00000(s)] 1505z Fair QRN4 QSB2 24/07[537 219 6.....]1505z S1	Spectre Spectre M8	TUE TUE TUE
6755kHz0830z 0830z	04/07[471 905 6 53754 42788 64580 61384 96959 89345 905 6 00000(s)] 0835z Weak QRN3 QSB2 11/07[471 905 6 53754 42788 64580 61384 96959 89345 905 6 00000(s)] 0835z Weak QRN3 QSB3 (Note 471 schedule 6755/5835kHz 0820/0830z 04/07, was found transmitting in LSB mode instead of USB mode.)	Spectre, MP Spectre	WED WED
6815kHz1210z	11/07[481 Heard Call Only] 1215z Weak QRN3 QSB4	Spectre	WED
7335kHz0730z 0730z 0730z	04/07[745 980 6 17358 82218 65974 57623 88154 15751 980 6 00000] Strong, moderate noise 11/07[745 980 6 17358 82213 65974 57623 88154 15751 980 6 00000(s)] 0735z Fair QRN3 QSB3 18/07[745 209 6 21767 53672 11834 81022 36903 41412 209 6 00000(s)] 0735z Weak QRN3 QSB3	FR, Spectre Spectre Spectre	WED WED WED
7744kHz1510z 1510z 1510z	10/07[537 284 6 89758 52343 79628 42432 59095 46281 284 6 00000(s)] 1515z Weak QRN3 QSB3 17/07[537 219 6 58219 50514 76667 80823 73964 57910 219 6 00000(s)] 1515z Fair QRN4 QSB3 25/07[537 219 6 58219 50514 76667 80823 73964 57910 219 6 00000]1515z S2	Spectre Spectre M8	TUE TUE TUE
7765kHz1200z	11/07[481 Heard Call Only] 1205z Weak QRN3 QSB4	Spectre	WED
9255kHz0930z	09/08[314 weak]	M8	THU
9655kHz0940z 0940z 0940z	06/07[516 403 7 39534 17228 15636 47891 23247 17099 94961 403 7 00000(s)] 0946z Weak QRN3 QSB3 Spectre FRI 13/07[516 403 7 39534 17228 15636 47891 23247 17099 94961 403 7 00000]1045z S9 20/07[516 209 7 67546 89706 45312 23165 78453 89671 45431 209 7 00000]0945z S7	M8, Spectre M8 M8	FRI FRI FRI
10230kHz1200z 1200z 1200z 1200z	02/07[831 479 5 20336 17301 88554 32045 36398 479 5 00000]1205z S1 FADING 09/07[831 479 5 20336 17301 88554 32045 36398 479 5 00000(s)] 1205z Weak QRN3 QSB3 Spectre MON 16/07[831 Heard Call Only] 1205z Weak QRN4 QSB4 Spectre MON 23/07[831 204 5 21767 53672 11834 81022 36903 204 5 00000] Strong signal, strong noise	M8, Spectre FR, M8, Spectre	MON MON
10290kHz0930z 0930z 0930z	06/07[516 403 7 39534 17228 15636 47891 23247 17099 94961 403 7 00000(s)] 0936z Weak QRN3 QSB3 13/07[516 403 7 39534 17228 15636 47891 23247 17099 94961 403 7 00000]1035z S9 20/07[516 209 7 67546 89706 45312 23165 78453 89671 45431 209 7 00000]0935z S9	Spectre M8, Spectre M8	FRI FRI FRI
11435kHz0530z 0530z 1	04/07[153 968 7 15009 33795 14600 92918 97067 41438 03092 968 7 00000(s)] 0536z Very Weak QRN4 QSB4 11/07[153 968 7 15009 33795 14600 92918 97067 41438 03092 968 7 00000(s)] 0536z Fair QRN2 QSB3 18/07[153 268 7 11171 64385 82707 06124 22536 88280 53718 268 7 00000(s)] 0536z Weak STANAGQRM3 QSB3	Spectre Spectre Spectre Spectre AR	WED WED WED WED WED
11830kHz0740z 0740z 0740z 0740z	04/07[745 980 6 17358 82218 65974 57623 88154 15751 980 6 00000] Strong signal, QRM 11/07[745 980 6 17358 82213 65974 57623 88154 15751 980 6 00000(s)] 0745z Strong QRN3 QSB2 18/07[745 209 6 21767 53672 11834 81022 36903 41412 209 6 00000(s)] 0745z Weak QRN3 QSB3 25/07[745 209 6 21767 53672 11834 81022 36903 41412 209 6 0 0 0 0 0]	FR, MP, Spectre Spectre Spectre Spectre	WED WED WED WED
12155kHz1200z 1200z	05/07[425 913 6 48754 65125 41879 84648 42036 76911 913 6 000000]1205z S9+10 09/08[425 830 6 52457 55534 98743 47532 54297 83255 830 6 00000]1205z S9+10	M8 M8	THU THU
12165kHz1210z 1210z 1210z 1210z	02/07[831 479 5 20336 17301 88554 32045 36398 479 5 00000]1215z S3 09/07[831 479 5 20336 17301 88554 32045 36398 479 5 00000(s)] 1215z Weak QRN3 QSB3 16/07[831 Heard Call Only] 1215z Weak QRN4 QSB4 23/07[831 204 5 21767 53672 11834 81022 36903 204 5 00000] Strong signal, strong noise	M8, Spectre Spectre Spectre FR, M8	MON MON MON MON

12650kHz0540z	04/07[153 968 7 15009 33795 14600 92918 97067 41438 03092 968 7 00000(s)] 0546z Very Weak QRN4 QSB4	Spectre	WED
0540z	11/07[153 968 7 15009 33795 14600 92918 97067 41438 03092 968 7 00000(s)] 0546z Fair QRN3 QSB3	Spectre	WED
0540z	18/07[153 268 7 11171 64385 82707 06124 22536 88280 53718 268 7 00000(s)] 0546z Weak QRN3 QSB3	Spectre	WED
12935kHz0810z	03/07[352 890 6 82707 06123 22536 88280 84116 31670 890 6 00000(s)] 0815z Fair QRN4 QSB3	Spectre	TUE
0810z	10/07[352 890 6 82707 06123 22536 88280 84116 31670 890 6 00000(s)] 0815z Weak QRN2 QSB3	Spectre	TUE
0810z	24/07[352 971 6 05899 50387 45847 23013 89758 48758 971 6 00000] 0815z S9	M8	TUE
12952kHz0900z	09/08[167 943 5 25810 14622 09192 33586 92042 943 5 00000] 0905z S6	M8	THU
14373kHz0800z	03/07[352 890 6 82707 06123 22536 88280 84116 31670 890 6 00000(s)] 0805z Fair QRN4 QSB3	Spectre	TUE
0800z	10/07[352 890 6 82707 06123 22536 88280 84116 31670 890 6 00000(s)] 0805z Weak QRN2 QSB2	Spectre	TUE
0800z	24/07[352 971 6 05899 50387 45847 23013 89758 48758 971 6 00000] 0805z S9	M8	TUE
14535kHz1210z	05/07[425 913 6 48754 65125 41879 84648 42036 76911 913 6 000000] 1215z S9	M8	THU
0910z	09/08[167 943 5 25810 14622 09192 33586 92042 943 5 00000] 0905z S9+20	M8	THU
1210z	09/08[425 830 6 52457 55534 98743 47532 54297 83255 830 6 00000] 1215z S9+20	M8	THU
14580kHz1000z	04/07[729 803 5 67423 89674 34215 89563 09841 803 5 00000(s)] 1005z Weak QRN3 QSB3	Spectre	WED
1000z	11/07[729 803 5 67423 89674 34215 89563 09841 803 5 00000(s)] 1005z Fair QRN3 QSB3	Spectre	WED
1000z	18/07[729 403 5 52401 63919 92699 14600 72438 403 5 00000(s)] 1005z Fair QRN2 QSB2	Spectre	WED
15230kHz0610z	17/07[438 270 5 47665 94092 48521 63888 92060 270 5 00000(s)] 0615z Fair QRN2 QSB2	Spectre	TUE
16020kHz1010z	04/07[729 803 5 67423 89674 34215 89563 09841 803 5 00000(s)] 1015z Weak QRN3 QSB3	Spectre	WED
1010z	11/07[729 803 5 67423 89674 34215 89563 09841 803 5 00000(s)] 1015z Fair QRN3 QSB3	Spectre	WED
1010z	18/07[729 403 5 52401 63919 92699 14600 72438 403 5 00000(s)] 1015z Fair QRN2 QSB2	Spectre	WED
1010z	25/07[729 403 5 52401 63919 92699 14600 72438 403 5 00000] Very strong signal, QRM	FR	WED
16735kHz0600z	17/07[438 270 5 47665 94092 48521 63888 92060 270 5 00000(s)] 0605z Fair QRN2 QSB2	Spectre	TUE
August:			
5835kHz0830z	01/08[471 ?????] Too weak to copy, moderate noise	FR	WED
0830z	22/08[471 238 55 08527 79200 05507 82616 32447 238 55 00000] 0835z Weak QRM2	MP	WED
6755kHz0820z	22/08[471 238 55 08527 79200 05507 82616 32447 238 55 00000] 0825z Fair	MP	WED
6780kHz0715z	28/08[374 506 8 08527 79200 05507 82616 32447 54139 15901 52630 505 8 00000] 0721z QSA4 QRM3	MP	TUE
6815kHz1210z	01/08[481 572 6 67453 89674 56423 12316 89856 90867 572 6 00000] Strong, QRM	FR	WED
7335kHz0730z	01/08[745 208 6 67545 78674 89563 09785 12315 56534 208 6 00000] Very strong QRM	FR	WED
7765kHz1200z	01/08[481 572 6 67453 89674 56423 12316 89856 90867 572 6 00000] Strong, QRM	FR	WED
9655kHz0940z	10/08[516 408 7 86320 58069 61732 74537 57440 10597 23521 408 7 00000] 0945z S9+15	M8	FRI
0940z	17/08[516 893 7 08527 79200 05507 82616 32447 54139 71689 893 7 00000] 0945z S5	M8	FRI
0940z	24/08[516 893 7 08527 79200 05507 82616 32447 54139 71689 893 7 00000] 0945z QSA4 QRM3	MP	FRI
10230kHz1200z	13/08[831 452 6 40613 66610 20336 17302 32045 24041 452 6 00000] 1205z S1	M8	MON
10290kHz0930z	10/08[516 408 7 86320 58069 61732 74537 57440 10597 23521 408 7 00000] 0935z S9+20	M8	FRI
0930z	17/08[516 893 7 08527 79200 05507 82616 32447 54139 71689 893 7 00000] 0935z S7	M8	FRI
11435kHz0530z	01/08[153 ?????] Too weak to copy, strong noise	FR	WED
11830kHz0740z	01/08[745 208 6 67545 78674 89563 09785 12315 56534 208 6 00000] Strong, QRM	FR	WED
12165kHz1210z	13/08[831 452 6 40613 66610 20336 17302 32045 24041 452 6 00000] 1215z S2	M8	MON
1210z	27/08[831 495 6 87463 56473 89201 98073 23546 77109 495 6 0 0 0 0 0] 1216z QSA3/4 QSB2	JO, Hans	MON
12650kHz0540z	01/08[153 926 7 83987 2????] Too weak to copy, strong noise	FR	WED
12935kHz0810z	07/08[352 ...0000] 0816z weak QRM5	MP	TUE
0810z	14/08[352 807 6 65518 35286 28464 53239 50056 09175 807n 6 00000] 0815z S8	M8	TUE
0810z	28/08[352 916 7 73195 23689 55860 10952 45556 15660 12828 916 7 00000] 0815z QSA4	MP	TUE
12952kHz0900z	16/08[167 294 5 53421 89674 56423 18576 33219 294 5 0 0 0 0 0] QSA3	JO	THU
0900z	23/08[167 294 55 53421 89674 56423 18576 33219 294 55 00000] 0905z S9+10	MP	THU
13565kHz0910z	16/08[167 294 5 53421 89674 56423 18576 33219 294 5 0 0 0 0 0] QSA3/2	JO	THU
0910z	23/08[167 294 55 53421 89674 56423 18576 33219 294 55 00000] 0915z S9+10	MP	THU
14373kHz0800z	07/08[352 807 6 65518 35286 28464 53239 50056 09175 807 6 00000] 0806z weak	MP, RNGB	TUE
0800z	14/08[352 807 6 65518 35286 28464 53239 50056 09175 807n 6 00000] 0805z S9	M8	TUE
0800z	28/08[352 916 7 73195 23689 55860 10952 45556 15660 12828 916 7 00000] 0805z QSA5	MP	TUE

14580kHz1000z	01/08[729 801 5 67453 89673 13265 89645 09532 801 5 00000] Very strong, QRM	FR	WED
1000z	08/08[729 801 5 67453 89673 13265 89645 09532 801 5 00000]1005z S9+10	M8	WED
1000z	15/08[729 55 56738 70951 76308 74860 20687 860 55 00000] 1005z fair	MP	WED
16020kHz1010z	01/08[729 801 5 67453 89673 13265 89645 09532 801 5 00000] Very strong, QRM	FR	WED
1010z	08/08[729 801 5 67453 89673 13265 89645 09532 801 5 00000]1015z S9+10	M8	WED
1010z	15/08[729 55 56738 70951 76308 74860 20687 860 55 00000] 1015z fair	MP	WED

We end S06 et al with PoSW's log and analysis:

Saturday 1600 or 1605 UTC Schedule:-

7-July-12:- 1605 UTC, 6,983 kHz, "134 134 134 00000", weak signal, clear copy with receiver in USB mode to remove what sounded like a broadcast station on 6,980.

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

4-Aug-12:- 1600 UTC, 8,157 kHz, "134 134 134 00000", strength S5 to S6.

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

18-Aug-12:- 1605 UTC, 6,983 kHz, "134 134 134 00000", S5.

25-Aug-12:- 1600 UTC, 8,157 kHz, "134 134 134 00000", S7.

Saturday 1930 or 1935 UTC Schedule:-

7-July-12:- 1930 UTC, 7,884 kHz, "843 843 843 00000", strength S6 to S7.

14-July-12:- 1935 UTC, 6,783 kHz, alternative start time on a lower frequency, "843 843 843 00000", weak but clear.

21-July-12:- 1930 UTC, 7,884 kHz, "843 843 843 00000", S5 to S6, the Hamburg WEFAX station on the LF side very strong this evening.

28-July-12:- 1935 UTC, 6,783 kHz, "843 843 843 00000", much stronger than in the past few Saturdays, peaking at S9+.

11-Aug-12:- 1930 UTC, 7,884 kHz, "843 843 843 00000", signal varying from S5 to S9, the WEFAX on the LF side S9+ as usual.

18-Aug-12:- 1935 UTC, 6,783 kHz, "843 843 843 00000", S8 to S9. Strong "XJT" on HF side, not noticed before.

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

7-July-12:- 1900 UTC, 7,843 kHz, "416 416 416 00000". Heard on 7,847 rather than 7,843 in May and June.
2000 UTC, 6,916 kHz, second sending, weak signal.

21-July-12:- 1900 UTC, 7,847 kHz - back to 7,847 - "416 416 416 00000", strength S6.
2000 UTC, 6,916 kHz, second sending, weak signal.

18-Aug-12:- 1900 UTC, 7,847 kHz, "416 416 416 00000", strong signal.
2000 UTC, 6,916 kHz, second sending, peaking S9 with deep QSB.

Monday + Thursday 1900 or 1905 UTC Schedule:-

28-June-12, Thursday:- 1900 UTC, 7,982 kHz, "349 349 349 00000", S9+ signal.

2-July-12, Monday:- 1900 UTC, 7,982 kHz, "349 349 349 00000", S9+.

5-July-12, Thursday:- 1905 UTC, 6,984 kHz, "349 349 349 00000", S9+.

12-July-12, Thursday:- 1900 UTC, 7,982 kHz, "349 349 349 00000".

19-July-12, Thursday:- 1905 UTC, 6,984 kHz, "349 349 349 00000", S9 with deep QSB.

30-July-12, Monday:- 1905 UTC, 6,984 kHz, "349 349 349 00000", S9 with QSB.

2-Aug-12, Thursday:- 1905 UTC, 6,984 kHz, "349 349 349 00000", S9+.

9-Aug-12, Thursday:- 1900 UTC, 7,982 kHz, "349 349 349 00000", S9+.

13-Aug-12, Monday:- 1905 UTC and a bit, 6,984 kHz, some out of character behaviour this evening. For a start strong carrier was up on 6,984 just after 1900z - unusual for this schedule, unlike some S06's this one doesn't usually advertise its presence beforehand. Carrier had scratching noises and went off around 1905 UTC. Came up approx. 1905 and 50 seconds UTC with, "349 349 349 00000". S9+.

16-Aug-12, Thursday:- 1900 UTC, 7,982 kHz, "349 349 349 00000".

20-Aug-12, Monday:- 1905 UTC, 6,984 kHz, "349 349 349 00000", S9+. Doesn't change much! Looking back through the log the last "full message" transmission from this schedule appears to be in May last year.

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

9-July-12:- unable to find the first sending, i.e. 1815 UTC sending despite a careful search.

Frequencies for this schedule in June were 15,910 + 13,585 kHz and would be expected to move lower in frequency now we are past the summer solstice. The second sending found but only just!:-

1921 UTC, 13,505 kHz, a "full message" S06 OM in progress, very weak signal, only just detectable, certainly unreadable.

Something very strange going on in the world of short wave propagation this evening; while tuning around in a fruitless search for S06 pre-transmission warm-up just after 1900 UTC, I logged US broadcast station WWCR on 12,160 with an S9+ signal, by far the strongest from this one for some time - a commercial for a water purifier followed by the “Alex Jones” show.

10-July-12, Tuesday:- 1915 UTC, 13,505 kHz, “next day repeat” of yesterday's full message.
 Call “376” DK/GC “280 280 139 139”. Much, much stronger than yesterday, S6 to S7.
 And WWCR which was such a strong signal just twenty-four hours earlier was barely audible.
 And still unable to find the first sending at 1815z.

23-July-12:- 1815 UTC, 15,850 kHz - the elusive first sending! “376 376 376 00000”.
 Don't know why I couldn't find it earlier in the month, was S9+, very strong this evening.
 Over-riding a weak broadcast station inside the 19 metre band. Pre warm – up carrier with tone found 1802 UTC with a single spoken Russian “376”.
 Carrier then went QRT, didn't notice it come back up again until start – up on the quarter hour.
 1915 UTC, 13,505 kHz, second sending, also S9+.

13-Aug-12:- 1815 UTC, 15,805 kHz, “260 260 260 00000”. On same frequency as an “XJT”
 No problem to find, carrier with tone noted just before 1805z with a single “260” shortly afterwards.
 1915 UTC, 13,380 kHz, second sending, strength S7.

S11a[III] July/August

5815kHz	1020z	25/08 [221/00] 1023z V.weak	Hans	SAT
8530kHz	0915z	13/07 [484/00]	RNGB	FRI
	0915z	20/07 [484/00] Konec 0918z S2	Malc	FRI
	0915z	24/07 [480/37 46805 53397 69468 25069 50113.....]	RNGB	TUE
	0915z	07/08 [484/00]	RNGB	TUE
	0915z	24/08 [486/32 Vnimanie 98618 95092 05120 21766.....68219]	Ary	FRI
	0915z	28/08 [484/00] Fair	RNGB	TUE
11581kHz	1020z	03/07 [426/00] 1023z Fair QRN4 QSB4	Spectre	TUE
	1020z	10/07 [426/00]	RNGB, Spectre	TUE
	1020z	13/07 [426/00] Konec 1023z S1	Malc	FRI
	1020z	17/07 [426/34.....] Too weak to copy	RNGB	TUE
	1020z	24/07 [426/00]	RNGB	TUE
	1020z	27/07 [426/00]	RNGB	FRI
16530kHz	1015z	02/07 [475/00] Konec 1018z S3	Malc	MON
	1015z	16/07 [475/00]	RNGB	MON
	1015z	19/07 [475/00]	RNGB	THU
	1015z	23/07 [475/00] Konec 1018z S5	Malc	MON
	1015z	02/08 [475/00]	RNGB	THU
	1015z	09/08 [475/00] 1018z scarcely perceptible QRM1 QSB2	Marco	THU
	1015z	13/08 [475/00] Konec 1018z	Malc	MON
	1015z	16/08 [475/00]	RNGB	THU
	1015z	20/08 [475/00] Konec 1018z S1	Malc	MON
	1015z	23/08 [475/00] 1018z S6-7 QSB2	Marco	THU

S21 [XIV] July:

4973kHz	1742z	24/07[973 468 3? 40733 74582.....to weak to copy]S1	M8	TUE
5373kHz	1742z	24/07[973 too weak to copy]	M8	TUE

August:

5373kHz	1742z	09/08[973 702 702 31 31]	GD, M8	THU
---------	-------	--------------------------	--------	-----

S28 July:

4665kHz	2035z	01/07 [Harmonic] Weak QRN3 QSB3	Spectre	SUN
4705kHz	2036z	01/07 [Harmonic] Very Weak QRN3 QSB4	Spectre	SUN

V02a [XVIII] July:

4028kHz	0227z	06/07 barely audible due to poor modulation	Westt1us, Ggs	FRI
4035kHz	0400z	30/07 qrn3 end 0442z	Ggs	MON
4038kHz	0400z	23/07 qrn5 (in progress) Poor Condx	Ggs	MON
5417kHz	0200z	06/07 QRN3-4 (in progress)	Ggs	FRI

5762kHz0200z	07/07 Fair	Sage	SAT
0200z	14/07[35351 18581 31316] QRM5 end 0215z??	Ggs	SAT
2200z	21/07 qrm5 end ukn	Ggs	SAT
0200z	28/07	Ggs	SAT
5898kHz0800z	02/07[A62451 74782 87111 LG 02841]	DanAr	MON
0830z	06/07 QRN1 end 0844z	Ggs	FRI
0800z	12/07[A 05341 18661 22002 LG25234] -weak signal-	DanAr	THU
0822z	16/07[????? ????? 85801 LG 44830] -started late-	DanAr	MON
0800z	19/07[A 14372 27701 31131 LG weak signal]	DanAr	THU
0800z	20/07 -signal very weak to copy-	DanAr	FRI
0800z	22/07[A 72232 85551 07881 LG 67186]	DanAr	SUN
0800z	23/07[A 68761 80401 03822 LG ?????] weak signal at end	DanAr	MON
0800z	24/07[A 200?? 32661 45102 LG 2260?] -weak signal-	DanAr	TUE
0800z	27/07[A 30651 43082 56311 LG 05308] -weak signal-	DanAr	FRI
0800z	28/07[A 35582 48021 52342 LG ?????] -weak signal-	DanAr	SAT
0800z	29/07[A 21032 34352 57681 LG 84680] -weak signal-	DanAr	SUN
0800z	30/07[A 24711 37132 41461 LG 077?4] weak signal	DanAr	MON
0800z	31/07[A 43571 55321 77642 LG 58056]	DanAr	TUE
6768kHz0100z	07/07 QRN4	Ggs	SAT
0100z	14/07[38862 71601 04366] 0141z	Ggs	SAT
0100z	28/07 qrn2 end 0142z	Ggs	SAT
7240kHz1000z	18/07[2155- 1-180 -----]QSA0 QSB3 (right in the noise floor)	HT	WED
11530kHz2333z	25/07 5f/SS/YL	Unconfirmed	P
12180kHz1900z	31/07[11132, 24551, 37882] QSA 1 QSB5	HT	TUE
13380kHz2000z	31/07[11132, 24551, 37882] QSA 3 QSB5	HT	TUE
<u>August:</u>			
4028kHz0133z	03/08[i/p] weak	GN	FRI
0100z	17/08 end ukn Covered by static.	Ggs	FRI
4035kHz0425z	06/08[i/p] fair	GN	MON
5417kHz0200z	03/08 grm5 end 0241z	Ggs	FRI
5762kHz0200z	04/08 qrn5 end 0241z	Ggs	SAT
0200z	11/08 end 0241z	Ggs	SAT
5853kHz0704z	17/08	RNGB	FRI
5883kHz0700z	04/08[A00252 12082 33622] fair	GN,Ggs	SAT
0700z	05/08 end unk	Ggs	SUN
0700z	19/08[A 64201 75831 88262 LG 15180] -intro x2 then msg-	DanAr	SUN
0700z	20/08[A 40721 53252 66572 LG 71801]	DanAr	MON
0700z	27/08[A 66111 70542 83861] Fair QSB3	Hans	MON
5898kHz0800z	02/08[A 52472 65702 78231 LG 53878]	DanAr	THU
0800z	04/08[A ????? ????? 33622 LG 55811] -weak signal & local qrm-	DanAr, Ggs	SAT
0800z	05/08[A 24622 35462 48781 LG 63684]	DanAr	SUN
0800z	09/08[A 71661 84102 06422 LG 91134]	DanAr	THU
0800z	10/08[A 78081 82322 15742 LG ?????]	DanAr	FRI
0800z	11/08 qrn4 end 0841z	Ggs	SAT
0800z	12/08[A 61511 72241 05571 LG ?????]	DanAr	SUN
0800z	16/08[A 52342 65662 78101 LG 54262]	DanAr	THU
0800z	17/08[A 13282 36522 40841 LG 61067]	DanAr	FRI
0800z	18/08[A 28241 40871 53302 LG 50383] Señorita Habana sent 111111 at 2'20" before message	DanAr	SAT
0800z	20/08[A 40721 53252 66572 LG 78288]	DanAr	MON
0800z	25/08[A 72811 85242 08562 LG ?7761]	DanAr	SAT
6768kHz0100z	04/08[A51842 73572 84312] weak	GN, Ggs	SAT
6855kHz0322z	06/08[i/p] fair	GN	MON
0300z	27/08[18101 (33566) 34853 0341z unsure 2nd grp	Ggs	MON
9040kHz0900z	01/08 qrn3 end ukn	Ggs	WED
9063kHz0938z	01/08[carrier only on old freq.] QSA4	HT	WED
0930z	08/08 carrier QSA5	HT	WED
9240kHz1003z	01/08[late start no call up] QSA5	HT	WED
0930z	08/08[1111111111] QSA5	HT	WED
1000z	08/08[08512 11831 34362] QSA5	HT	WED
1000z	15/08[A70352 83772 06111?] -weak and low audio-	Ggs, DanAr	WED
1000z	22/08[60741, 73172, 86501] QSA5 ORN1	HT	WED

12180kHz1900z 1900z	07/08[52071 65412 78731] QSA1 QSB4 28/08 end 1941z	HT Ggs	TUE TUE
13380kHz2000z 2000z 2000z	07/08[52071 65412 78731] QSA1 QSB4 14/08 end unk 28/08 end 2041z	HT Ggs Ggs	TUE TUE TUE

V13 **July:**

11430kHz1200z	12/07 music intro YL with msg -weak signal and carrier frequency drift-	DanAr	THU
11430kHz1200z	13/07 music intro YL with msg -weak signal and carrier frequency drift at 1147z	DanAr	FRI
11430kHz1200z	18/07 music intro YL with msg -weak signal-	DanAr	WED
11430kHz1203z	22/07 short intro music and YL with msg -started late without time to warm up transmitter , carrier frequency drift over music and msg	DanAr	SUN
11430kHz1200z	26/07 music intro YL with msg -weak signal-	DanAr	THU
11430kHz1203z	27/07 music intro YL with msg -started late without warm up TX , weak signal-	DanAr	FRI
11430kHz1200z	28/07 music intro YL with msg -weak signal-	DanAr	SAT
11430kHz1200z	29/07 music intro YL with msg -weak signal-	DanAr	SUN

August:

11430kHz1200z	17/08 music intro YL with msg. FRI -weak signal-	DanAr	FRI
11430kHz1200z	27/08 - Flute opening and message, strong on GT "Hong Kong DX"	Hans	MON

V16

An interesting input from MaleAnon, who writes:

I have come accros your site and have heard the recording at http://www.youtube.com/watch?v=Gfiv_v3NzNw

I happen to know a little bit of Chinese and managed to get some information from it.

The first message is the next (I do not understand everything, I only wrote what I'm sure about) 'bu xie' at the end of each message means 'no thanks'
at the end of a series, the lady says 'zai jian', meaning 'see you later'

The first message

san yao liu guan liang ba hu jiao bu xie

3 1 6 2 8 calling no thanks

Second message

san guan wu yao san san hu jiao bu xie

3 5 1 3 3 calling no thanks

Thanks MaleAnon2

V21 [O]

Babbler Logs May through July

5637kHz 1300z 1/5 SS/OM Too weak to copy
6529kHz 1258z 26/5 SS/OM Counting repeatedly to 40 pausing on 10,20 and 30 each time 40 40 40 40 40 then too weak to copy TX ended at 1307z
6529kHz 1300z 6/6 SS/OM too weak to copy for 11 minutes then clearer with SS/OM counting to 20 nine times pausing at 10 each time. Then barely audible at 13 minutes. TX ends after approximately 20 minutes.
6529kHz 1305z 3/7 SS/OM counting caught counting from 20 to 40 then 1 to 40 then too weak to copy.
6529kHz 1305z 6/7 SS/OM counting very weak
6529kHz 1305z 7/7 SS/OM started at 1305z and ended 1315z counting to 30 then too weak to copy

Tnx MaleAnon

Polytones:

The 'new' schedule 0600/0620/0640z discovered by RNGB occurs on Wednesday and Saturday. It will appear in our chart as XPA c

XPA2**July:**

Sun/Tue

14538kHz2100z	01/07[07091 00001 00000 10140] Very strong	(2m11s)	PLdn	SUN
13538kHz2120z	01/07[07091 00001 00000 10140] Strong	(2m11s)	PLdn	SUN
12138kHz2140z	01/07[07091 00001 00000 10140] Strong	(2m11s)	PLdn	SUN
14538kHz2100z	03/07[07496 00001 00000 10140] Very strong	(2m11s)	BR,PLdn	TUE
13538kHz2120z	03/07[07496 00001 00000 10140] Strong	(2m11s)	BR,PLdn	TUE
12138kHz2140z	03/07[07496 00001 00000 10140] Strong	(2m11s)	BR,PLdn	TUE
14538kHz2100z	08/07[00803 00049 86423 31775] Very strong	(2m48s)	BR PLdn	SUN
13538kHz2120z	08/07[00803 00049 86423 31775] Very strong	(2m48s)	BR,PLdn	SUN
12138kHz2140z	08/07[00803 00049 86423 31775] Very strong	(2m48s)	BR,PLdn	SUN
14538kHz2100z	10/07[00803 00049 86423 31775] Very strong	(2m48s)	BR PLdn	TUE
13538kHz2120z	10/07[00803 00049 86423 31775] Very strong	(2m48s)	BR PLdn	TUE
12138kHz2140z	10/07[00803 00049 86423 31775] Very strong	(2m48s)	BR PLdn	TUE

All freqs 15/07 NRH

All freqs 18/07 NRH

14538kHz2100z	22/07[00305 00083 53996 13661] Very strong	(3m15s)	PLdn	SUN
13538kHz2120z	22/07[00305 00083 53996 13661] Very strong	(3m15s)	PLdn	SUN
12138kHz2140z	22/07[00305 00083 53996 13661] Fair	(3m15s)	PLdn	SUN
14538kHz2100z	24/07[00305 00083 53996 13661] Very strong	(3m15s)	PLdn, RNGB	TUE
13538kHz2120z	24/07[00305 00083 53996 13661] Very strong	(3m15s)	PLdn, RNGB	TUE
12138kHz2140z	24/07[00305 00083 53996 13661] Fair	(3m15s)	PLdn, RNGB	TUE
14538kHz2100z	29/07[05901 00001 00000 10140] Very strong	(2m11s)	PLdn	SUN
13538kHz2120z	29/07[05901 00001 00000 10140] Very strong	(2m11s)	PLdn	SUN
12138kHz2140z	29/07[05901 00001 00000 10140] Very strong	(2m11s)	PLdn	SUN
14538kHz2100z	31/07[06532 00001 00000 10140] Very strong	(2m11s)	PLdn	TUE
13538kHz2120z	31/07[06532 00001 00000 10140] Very strong	(2m11s)	PLdn	TUE
12138kHz2140z	31/07[06532 00001 00000 10140] Very strong	(2m11s)	PLdn	TUE

Mon

10214kHz0510z	16/07[ended with 30279 55075 (missed start)]		RNGB	MON
9234kHz0520z	16/07[ended with 30279 55075 (missed start)]		RNGB	MON

Mon/Thu

14387kHz2100z	12/07[06284 00127 51722.....21115]		RNGB	THU
13886kHz2110z	12/07[06284 00127 51722.....21115]		RNGB	THU
13496kHz2120z	12/07[06284 00127 51722.....21115]		RNGB	THU
14387kHz2100z	23/07[01083 00081 12187 64664] Very strong	(3m15s)	PLdn	MON
13886kHz2110z	23/07[01083 00081 12187 64664] Very strong	(3m15s)	PLdn	MON
13496kHz2120z	23/07[01083 00081 12187 64664] Very strong	(3m15s)	PLdn	MON
14387kHz2100z	20/07 Poor		BR	THU
13496kHz2120z	20/07 Poor		BR	THU
14387kHz2100z	26/07[06314 00100 21747 14551] Very strong	(3m28s)	PLdn	THU
13886kHz2110z	26/07[06314 00100 21747 14551] Very strong	(3m28s)	PLdn	THU
13496kHz2120z	26/07[06314 00100 21747 14551] Very strong	(3m28s)	PLdn	THU

Tue

8098kHz1800z	10/07[05322?? 00083 13923.....40136 10/07]		RNGB	TUE
6829kHz1810z	10/07[05322?? 00083 13923.....40136 10/07]		RNGB	TUE
5757kHz1820z	10/07[05322?? 00083 13923.....40136 10/07]		RNGB	TUE

Tue/Fri

14777kHz2203z	03/07 Just caught ending, good signal strength no QRM		GN	TUE
14777kHz2200z	10/07[03624 00091 68285.....24620]		RNGB	TUE
14777kHz2200z	20/07[0n502 00098 51109 nnnnn]Weak, QRM2	(3m26s)	PLdn	FRI

Tue/Fri continued:

14777kHz2200z	24/07[05452 00085 52359 54n27]Fair	(3m18s)	PLdn	TUE
14777kHz2200z	27/07[07517 00136 94809 73762] Strong	(3m55s)	PLdn	FRI
14777kHz2200z	31/07[03335 00087 94619] Fair, last group missed out		PLdn	TUE
14541kHz2000z	13/07[07908 00136 89023.....26774]		RNGB	FRI
13404kHz2010z	13/07[07908 00136 89023.....26774]		RNGB	FRI
11046kHz2020z	13/07[07908 00136 89023.....26774]		RNGB	FRI
14541kHz2000z	20/07[01045 00081 43268 57254] Fair	(3m14s)	PLdn	FRI
13404kHz2010z	20/07[01045 00081 43268 57254] Fair	(3m14s)	PLdn	FRI
11046kHz2020z	20/07[01045 00081 43268 57254] Weak	(3m14s)	PLdn	FRI
14541kHz2000z	24/07[05837 00089 28273 01632]Very strong	(3m16s)	PLdn, RNGB	TUE
13404kHz2010z	24/07[05837 00089 28273 01632]Strong	(3m16s)	PLdn, RNGB	TUE
11046kHz2020z	24/07[05837 00089 28273 01632]Fair	(3m16s)	PLdn, RNGB	TUE
14541kHz2000z	27/07[07540 00092 03456 50062] Very strong	(3m22s)	PLdn	FRI
13404kHz2010z	27/07[07540 00092 03456 50062] Very strong	(3m22s)	PLdn	FRI
11046kHz2020z	27/07[07540 00092 03456 50062] Very strong	(3m22s)	PLdn	FRI
14541kHz2000z	31/07[05423 00107 98707 04027] Very strong	(3m33s)	PLdn	TUE
13404kHz2010z	31/07[05423 00107 98707 04027] Very strong	(3m33s)	PLdn	TUE
11046kHz2020z	31/07[05423 00107 98707 04027] Very strong	(3m33s)	PLdn	TUE
Fri				
13884kHz2120z	20/07 Weak, unable to process	(3m36s)	PLdn	FRI
12217kHz2140z	20/07 Weak, unable to process	(3m36s)	PLdn	FRI
Sat				
15967kHz2100z	28/07[00763 00059 13923 11532] Strong		RNGB	SAT
14869kHz2120z	28/07[00763 00059 13923 11532] Strong		RNGB	SAT
12217kHz2140z	28/07[00763 00059 13923 11532] Strong		RNGB	SAT

August:

Sun/Tue

14738kHz2000z	05/08[00460 00071 19781 ... 76205] Very strong	(3m05s)	PLdn	SUN
13438kHz2000z	05/08[00460 00071 19781 ... 76205] Strong, QSB2	(3m05s)	PLdn	SUN
12138kHz2000z	05/08[00460 00071 19781 ... 76205] Strong, QSB2	(3m05s)	PLdn	SUN
14738kHz2000z	07/08[00460 00071 19781 ... 76205] Fair	(3m05s)	PLdn	TUE
13438kHz2020z	07/08[00460 00071 19781 ... 76205] Fair	(3m05s)	PLdn	TUE
12138kHz2040z	07/08[00460 00071 19781 ... 76205] Fair	(3m05s)	PLdn	TUE
14738kHz2000z	12/08[05624 00001 00000 10140] Very strong	(2m11s)	PLdn	SUN
13438kHz2020z	12/08[05624 00001 00000 10140] Very strong	(2m11s)	PLdn	SUN
12138kHz2040z	12/08[05624 00001 00000 10140] Very strong	(2m11s)	PLdn	SUN
14738kHz2000z	14/08[05624 00001 00000 10140] Strong	(2m11s)	PLdn	TUE
13438kHz2020z	14/08[05624 00001 00000 10140] Strong	(2m11s)	PLdn	TUE
12138kHz2040z	14/08[05624 00001 00000 10140] Strong	(2m11s)	PLdn	TUE
14738kHz2000z	19/08[00427 00069 72991 53231] Fair	(3m03s)	PLdn	SUN
13438kHz2020z	19/08[00427 00069 72991 53231] Fair, Break in intro. 1s	(3m03s)	PLdn	SUN
12138kHz2040z	19/08[00427 00069 72991 53231] Weak, local QRM2	(3m03s)	PLdn	SUN
14738kHz2000z	26/08[00756 00043 95948 44724] Very strong	(2m46s)	PLdn	SUN
13438kHz2020z	26/08[00756 00043 95948 44724] Very strong	(2m46s)	PLdn, RNGB	SUN
12138kHz2040z	26/08[00756 00043 95948 44724] Very strong	(2m46s)	PLdn	SUN
14738kHz2000z	28/08[00756 00043 95948 44724] Very strong	(2m46s)	PLdn	TUE
13438kHz2020z	28/08[00756 00043 95948 44724] Very strong	(2m46s)	PLdn	TUE
12138kHz2040z	28/08[00756 00043 95948 44724] Very strong	(2m46s)	PLdn	TUE

Sun/Wed

16038kHz1903z	15/08 No values		GN	WED
16038kHz1900z	26/08[05485 00075 63709 60613]		RNGB	SUN
14829kHz1910z	26/08[05485 00075 63709 60613]		RNGB	SUN
12181kHz1920z	26/08[05485 00075 63709 60613]		RNGB	SUN

Mon

14739kHz1700z	20/08[08212 00149 40861 56247] strong signal but with deep fades 17:00 to 17:04 ..	IW	MON
14429kHz1710z	20/08 17:10 to 17:14 (much weaker signal)	IW	MON
13887kHz1720z	20/08 17:20 to 17:24 (again to weak to decode)	IW	MON

Tue

16314kHz1900z	20/08[03452 00001 00000 10140]	RNGB	TUE
15814kHz1920z	20/08[03452 00001 00000 10140]	RNGB	TUE
14514kHz1940z	20/08[03452 00001 00000 10140]	RNGB	TUE

Wed

16038kHz1903z	15/08 No values	GN	WED
8793kHz2020z	15/08[??]Weak /w noise [Suspect freq]	DLBB	WED
13551kHz2000z	15/08[07702 00076 52708.....55350]	RNGB	WED
9126kHz2020z	15/08[07702 00076 52708.....55350]	RNGB	WED
13559kHz2100z	15/08[07702 00076 52708.....55350]	RNGB	WED
10917kHz2110z	15/08[07702 00076 52708.....55350]	RNGB	WED
9302kHz2120z	15/08[07702 00076 52708.....55350]	RNGB	WED

Fri

9399kHz0500z	17/08[02649 00107 42046 93295...] 0503z Strong	Hans	FRI
7714kHz0522z	17/08 In prog	Hans	FRI
14739kHz1703z	03/08 Too weak to process	IW	FRI
14429kHz1710z	03/08 07573 00143 10123 07672	IW	FRI
16167kHz1900z	17/08[00910 00091 34015.....57732] Strong	RNGB	FRI
14663kHz1920z	17/08[00910 00091 34015.....57732] Strong	RNGB	FRI
13923kHz1940z	17/08[00910 00091 34015.....57732] Strong	RNGB	FRI

Digital, Incursions and Unexplained Signals

Digital, Incursions and Unexplained Signals

Despite being hampered by intermittently poor HF conditions I have spent as much time as possible over the last couple of months hunting for FSK200/1000 transmissions and then trying to interpret the results. I will explain my findings later but first a FSK200/500 update.

To recap FSK200/500 is a data mode believed to be used by a Russian governmental organisation it transmits data using FSK (Frequency Shift Keying) with a 500 Hz shift at a speed of 200 baud. Its effectively a high speed RTTY transmission as data is sent with 1.5 stop bits and encoded using the ITA2 alphabet. It operates on regular schedules with transmissions that last 7 minutes but which change frequency every month. Messages are sent three times at H + 00 minutes then H+10 minutes and finally H+20 minutes. I have been keeping a close eye on the known Thursday 19:00/10/20 and Saturday 12:00/10/20 schedules which used the following frequencies during July and August ..

	Thursday 19:00	Thursday 19:10	Thursday 19:20	Saturday 12:00	Saturday 12:10	Saturday 12:20
July	11123 KHz	9117 KHz	6828 KHz	16329 KHz	14641 KHz	Unknown
August	10828 KHz	8144 KHz	5803 KHz	17482 KHz	15967 KHz	Unknown

I have managed to log both of these schedules for the last two months and on every occasion the message sent was the usual null message repeated for seven minutes.

```
00000+++++++162)5761
00000+++++++162)5761
00000+++++++162)5761
00000+++++++162)5761
```

So I thought it was going to be a normal month for FSK200/500. But while taking a holiday on Monday 30th July 2012 I came across a FSK200/500 at 10:15 on 13596 KHz. I started recording it to a .WAV file and expected it to end at 10:17 but instead it continued until 10:21. I hunted around for a 10:20 transmission but was unable to find one. When I decoded the WAV file later using Rivet I discovered an actual message was being sent. The recording was sadly noisy and so wasn't a brilliant decode but took the form ..

```
467227600822617102=87137
429993887399289100=83338
878849479730926101=85739
```

As I saw previously in the only other FSK200/500 message I have decoded the last two digits on each line are a line number which increments. Once again however I missed the start of the transmission and so missed the message header which is very annoying. This transmission raises several questions though. Is this a schedule I haven't come across before which over ran its usual time slot due to the length of the message being sent ? Or was this an unscheduled special message ? Sadly I'm usually at work on weekday mornings and as this was the last Monday in the month I knew that if this was a schedule the frequency would be changing anyway on the following Monday which was in August so couldn't automatically record it. So much research needs to be done before we come close to understanding FSK200/500.

Now lets look at what appears to be FSK200/500s sister station FSK200/1000. Again this is believed to be used by a Russian governmental organisation. The data transmissions using this mode last 7 minutes and are on schedules at H+00 , H+10 , H+20 or H+30 , H+40 and H+50. Again FSK (Frequency Shift Keying) is used but with a 1000 Hz shift and the data sent at 20 baud. However characters aren't sent using the ITA2 alphabet but using an unknown system. The data is sent in blocks of 288 bits with each block starting with the bits ..

```
10000010111011010100111100011001
```

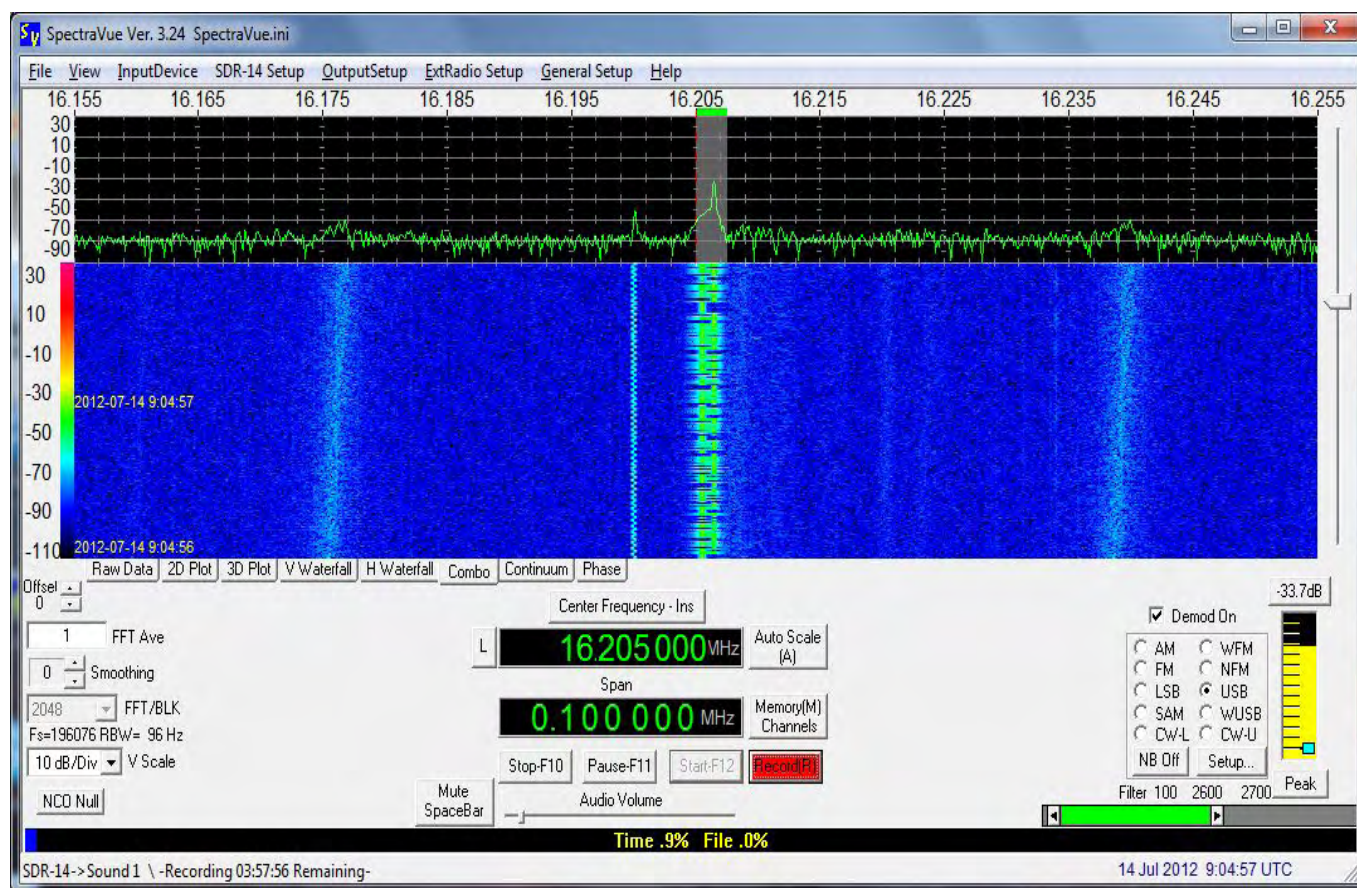
which is 0x82ed4f19 in hexadecimal. It makes an ideal synchronization sequence as there are an equal number of 1's and 0's in it. Following the 32 bit synchronization sequence there are 256 bits of actual message in each block. Now I can't decode the messages fully but using Rivet you can now tell how large the message is. Take the following section of a message which was sent at 21:00 on 21st August 2012 ..

```
82,ed,4f,19,ff,ff,ff,ff,ff,9f,ff,ef,ff,ff,ff,ff,f7,df,fb,ff,fb,ff,f7,bf,f4,bf,f9,8f,fc,8f,f1,df,f0,6f,f7
Block Start (288 bits since last block)
82,ed,4f,19,ff,cc,ee,ff,4b,bf,18,1f,67,ef,42,ff,fd,fb,ff,fa,e8,f7,57,f6,18,ca,4f,83,5a,27,0,e0,0,e4,e,ff
Block Start (288 bits since last block)
82,ed,4f,19,ff,aa,ff,ff,ff,ff,ff,ff,ff,ff,ff,ff,f5,ff,f0,ff,f5,ff,f6,ff,fe,ff,ff,ff,fc,ff,fb,ff,fa,ff,fb
Block Start (288 bits since last block)
82,ed,4f,19,ff,ff,ff,ff,ff,ff,ff,ff,ff,ff,ff,ff,ff,ff,ff,ff,ff,ff,ff,ff,ff,ff,ff,ff,ff,ff,ff,ff,ff,ff,ff,ff,ff
Block Start (288 bits since last block)
82,ed,4f,19,ff,ff,ff,ff,ff,9f,ff,ef,ff,ff,ff,ff,f7,df,fb,ff,fb,ff,f7,bf,f4,bf,f9,8f,fc,8f,f1,df,f0,6f,f7
Block Start (288 bits since last block)
82,ed,4f,19,ff,cc,ee,ff,4b,bf,18,1f,67,ef,42,ff,fd,fb,ff,fa,e8,f7,57,f6,18,ca,4f,83,5a,27,0,e0,0,e4,e,ff
Block Start (288 bits since last block)
82,ed,4f,19,ff,aa,ff,ff,ff,ff,ff,ff,ff,ff,ff,ff,ff,f5,ff,f0,ff,f5,ff,f6,ff,fe,ff,ff,ff,fc,ff,fb,ff,fa,ff,fb
Block Start (288 bits since last block)
82,ed,4f,19,ff,ff,ff,ff,ff,ff,ff,ff,ff,ff,ff,ff,ff,ff,ff,ff,ff,ff,ff,ff,ff,ff,ff,ff,ff,ff,ff,ff,ff,ff,ff,ff,ff
```

Notice how the same message is being repeated twice above with the block that starts with the synchronization sequence but consists of just 0xff indicates the end of a message. You can see that including the end of message block the message being sent consists of 4 blocks. So although we can't yet decode the messages we can tell how long a message is and if a message is a repeat one. For the last few months I have been hunting for FSK200/1000 transmissions and saving details of all the ones I have found. Initially what I had was confusing since for example sometimes there appeared to be transmissions on Saturday and Sunday mornings but not always with further confusion being added as some transmissions were missing due to poor HF conditions. It was only when I entered the logs I had into a Spreadsheet (Google docs online excellent and free) that it started to make sense and from this I have identified four FSK200/1000 "circuits" which I understand ..

Circuit	Day	Time	When	Comments
A	Saturday + Sunday	09:00 + 09:10 + 09:20	Alternate Weeks	Sends only one long (19 or 26 block) message all month.
B	Sunday	15:30 + 15:40 + 15:50	Weekly	Only sends 4 block messages which change weekly
C	Sunday	11:00 + 11:10 + 11:20	Alternate Weeks	Variable message lengths.
D	Tuesday	17:00 + 17:10 + 17:20	Weekly	Only sends 4 block messages which change weekly.

Note that circuits A,B and D appear to be aimed at Western Europe with signal strengths usually high while circuit C is always a poor signal and I would guess is aimed at somewhere else. In addition we appear have short lived circuits. For example on Monday 18th June at 17:00 I logged a FSK200/1000 transmission sending a 53 block message (the longest message I have seen so far) but despite listening every following Monday at 17:00 I have yet to hear another FSK200/1000 transmission. Likewise on Wednesday 18th July at 17:30 I logged a 8 block message being sent but have yet to hear another message being sent on a Wednesday at this time. I know that there are also transmissions sent on certain weekdays at 12:00/10/20 and 13:00/10/20 but being at work then am unable to find and log these transmissions. If you can monitor on weekdays at these times I would really like your help.



The screenshot above shows a very strong FSK200/1000 circuit A transmission received in Northern England using a SDR-14 software radio with random long wire and home made ATU. To left of the FSK200/1000 transmission and so on a slightly lower frequency is a Russian naval CIS36-50 transmission in idling mode.

Initially it was thought that these transmissions may be related to Family 1b but after passing on my findings to several senior members of the group it has been speculated that their characteristics (such as the short lived schedules) make them more likely members of the same family of transmissions as XPA2. The owner of these transmissions remains unknown but my feeling is that these aren't standard diplomatic messages. X06 and CROWD36 transmissions which are widely believed to be diplomatic in nature rarely transmit at weekends. FSK200/1000 however seems to specialise in "out of office hours" transmissions which suggests to me that they are for a different type of recipient. So as with the previous mode lots more research is needed especially with the contents of FSK200/1000 messages.

In between hunting for FSK200/500 and FSK200/1000 transmissions I am still looking for CROWD36 transmissions and received a log from regular monitor Spectre ..

Crowd 36 14656kHz 11/07 [Data I.P.] 1202z Fair QRN2 QSB2 Spectre WED

If you wish to try FSK200/500 or FSK200/1000 decoding yourself the decoder "Rivet" can be downloaded for free from ..

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

If you have any questions about how to use it or need any help getting it working please email me via the group and I will do my best to help.

In addition there is an online spreadsheet showing the latest FSK200/500 and FSK200/1000 frequencies and schedule information online here ..

<http://goo.gl/D3Ue5>

Items of Interest in the Media:-

Well, nothing untoward happened - at the London Olympics, that is! No terrorist attack, no "Mumbai style" shootings, no occasion for Tommy Atkins to light the blue touch paper of any of the missiles installed on the top of apartment blocks, no need for the Jolly Jack Tars on HMS Ocean stationed on the Thames to man the guns, no requirement for fighter jets at Northolt to scramble and shoot down some slightly off course airliner with several hundred passengers and full tanks of aviation fuel on board, bringing it down in flames on a densely populated part of the nation's capital, no "dirty bomb" spewing radioactive material into the air. Glad about that last one, a prevailing south-south westerly wind of say, ten to fifteen knots would bring the fall-out up to my part of the world within a few hours!

Even the public transport system worked without too many problems, the predicted chaos not much in evidence. So a win-win situation for the transport unions then, who because they thought their work load would be much, much larger for the duration of the games threatened to go on strike unless they were given generous financial compensation - or bonus, which, of course, they duly received.

All in all, it sounded like another effort by the Department of Not Enough to Worry About and the National Guesswork Authority to keep us fearful and suspicious of each other. The nearest thing to an act of violence at the games was when one of the spectators was reported to have thrown an empty plastic drinks bottle onto the track. Otherwise it was two weeks of the participants running, jumping and throwing things, desperate to win a medal which would lead to the prospect of financially rewarding sponsorship deals. I think the best example of the original Olympic spirit was that of the young woman runner from Saudi Arabia who finished her race well towards the rear of the field but was cheered by the spectators because she represented an advancement for women in that country.

Not a great sports fan myself, and to be honest I didn't hear many people expressing much interest.

The opening ceremony of the games produced much comment. It was on TV in the very late evening UK time, no doubt to fit in with peak viewing hours in America. I think the general theme was to portray the history of this here United Kingdom from an agricultural, pastoral economy through the industrial and post-industrial phases until what it is now - on the verge of implosion, I would say! Much was made of the National Health Service, much maligned but to which us Brits owe a great deal - and of course, the privatisation of the said organisation started by New Labour is proceeding at an even greater pace under the current administration. The belief of many who work for the NHS is that the ultimate aim of the LibLabCon party is to sell it off at a knock-down price to a consortium of American health insurance companies.

I saw a comment on the Daily Telegraph web site which was made by a reader with regard to an article about government dreaming up new laws and fines to extract even more money from car drivers and I thought it deserved a wider distribution since it expresses so well the State of the Nation:-

"To the outside world that reads this newspaper. Do not be misled by the supposed bonhomie of the Olympics. Britain today is a politically correct, over-spied on nation, unsure of its place in the world and bewildered at what is happening to it. Its people generally loathe all levels of authority be they politicians, local authorities or pontificating churchmen for the lies they continually feed us as they bleed us dry".

I think that's absolutely brilliant! [*Ed I think it's totally true!*]

Good stuff on BBC Radio:- I have just about given up on television these days, the digital "Free View" system which has now replaced the old analogue 625 line mode is a perfect example of the old saying that "more" does not always mean "better". Forty or fifty channels, depending on the time of day, and most of the time nothing worth watching.

Much of the programming is of American origin - nothing wrong with that in itself but the days when Uncle Sam sent us quality TV such as "Hill Street Blues", "Mash", and of course, "Top Cat" are long gone. Everything these days seems to be aimed at that all important, free-spending and easy to part from their money late teens and twenties demographic. The main use for the TV these days is as the display medium for the DVD player.

However, BBC radio has much to recommend it and several items have been noteworthy in recent weeks. First, Radio 4 did a half-hour programme called "Securing the Games" on 22-July - so, returning to the subject of the London Olympics. It included coverage of an exercise held in which the scenario was a terrorist attack on the Underground, a two day affair involving 2,500 people from the fire, police and ambulance services. Interviews with the various individuals in charge of various aspects of security - one interesting fact that emerged was that around 2,500 CCTV cameras were in use - Big Brother is watching you, then - covering the various games venues. One problem that had to be overcome was that of the private company which had been contracted to provide security guards and which then was unable to do so and so extra personnel from the Army had to be brought in to fill the gap.

The closing words of the programme were, "The hope will be that all this work, the missiles, the warships and the exercises like the one in the London Underground earlier this year will be for nothing and that the Olympics will be remembered for the sport."

And I guess that's exactly how it turned out.

BBC World Service moves from Bush House - The BBC World Service has gone through many changes in recent years. No doubt the end of the Cold War removed many of the reasons for its existence. A shift in the actual programme content took place in the 1990's when much of its output which had hitherto been targeted at ex-patriot Brits was dropped - programmes such as a daily press review of the London newspapers, a review of political and other magazines called "From the Weeklies", specialist music shows such as "Jazz for the Asking" and a classical music request show, even monthly astronomy programme, "Seeing Stars". There was even something for the Merchant Navy, called not unreasonably "The Merchant Navy Show" - all were dropped in the space of a short time. I think they decided to target a completely different audience, not UK nationals living overseas, and in particular the exploding populations of the Third World, countries where 80% of their inhabitants are under the age of 30 and whenever I listen to it now - it is available on the DAB system in the UK - it likely as not will be all about rap music and Africa, Africa, bloody Africa.

And now the World Service and the other foreign language services have moved from Bush House in The Strand, London and re-located to new premises in Broadcasting House.

BBC Radio 4 did a documentary on 15-July called "Goodbye to Bush House" which covered the history of the BBC's external services from that location which was most informative, covering the Cold War years, the revolution in Iran following the overthrow of the Shah, the 1982 conflict with Argentina over the Falklands and many other topics.

Classic communications receiver shown in newspaper;- the Metro newspaper of 29-June contained an article on the 75th anniversary of the UK's emergency phone "999" service.

Included in the short item was a photograph from long, long ago which showed two radio receivers mounted one above the other in a 19 inch rack - instantly recognisable by those in the know as fine examples of the "HRO" - made by the National Company Inc. of Malden, Mass. This supposedly has to do with the fact that the police used Morse code to communicate, although I am not convinced that this particular photograph has anything at all to do with the subject. I remember an article in one or other of the radio magazines a few years ago on the early days of police radio communications in the UK and mentioned the fact that Morse code was used using frequencies in the 2 MHz band, which meant that after dark there would be interference from distant users on the same frequency.

The HRO first saw the light of day in 1935, I think, and I seem to call that this form of communication was being used several years before that. In the photograph as well as the two rack-mounted HROs there is an operator with an unrecognisable uniform with his hand on one of a group of three Morse keys. Also shown is a stack of the plug-in coil packs which are used to change bands on the HRO. It is not clear why these would need to be close at hand if the receiver was being used on just one or two closely spaced spot frequencies. I suspect the guy writing the article said to some office junior, "Nip down to the photo library and find something on Morse code radio communications in the old days". Still, always great to see pictures of old radio gear

"000" "POSW"

With no jobs available for 'Gizza Job' Spectre has kindly itemised his holiday radio activities:

Monitoring on holiday.

This year I wished to go a step further from my previous years holiday, with a simple automated recording system for unattended monitoring. Using my Radio Shack DX-394 receiver which has a useful 5 individual timers, and I still use my Voice Activated Tape Recorder I had previously mentioned in earlier Enigma 2000 newsletters to record the audio from the DX-394. I know that tape based recording is considered old hat these days, but I still find the system works really well and at a low cost too. The tape recorder is powered by 2 double A rechargeable batteries, which are usually replaced with fresh batteries every other day. The tapes usually hold up to 50 minutes of audio per side, so that means I usually can monitor 5 different frequencies unattended with a maximum of 10 minutes of audio for each frequency monitored. This doesn't sound like a lot of audio to record for each frequency monitored, but most number station transmissions rarely transmit anything longer than 10 minutes.

For Example.

S06s will transmit for 6 minutes with a 7 group message.

E06 & G06 1/3 week schedules will transmit for 7 minutes with a 15 group message.

Most family 03 stations will send a standard 32 group message complete with repeat at the end, will usually last around about 10 minutes.

So I use this as a guide when I program the DX-394 receivers end times. I usually connect the DX-394 with an audio lead from the headphone jack to the microphone input on my Tape Recorder. This way no sound will come out of the receivers built in speaker when the receiver is automatically turned on. All that is required to do now is make sure to press Record on the Tape Recorder, and when the tape stops it is ready to start auto recording. Fully recharged batteries can last up to 2 days even if the Tape Recorder is left in standby mode.



Degen De-1103, DX-394 and VAS Tape Recorder.

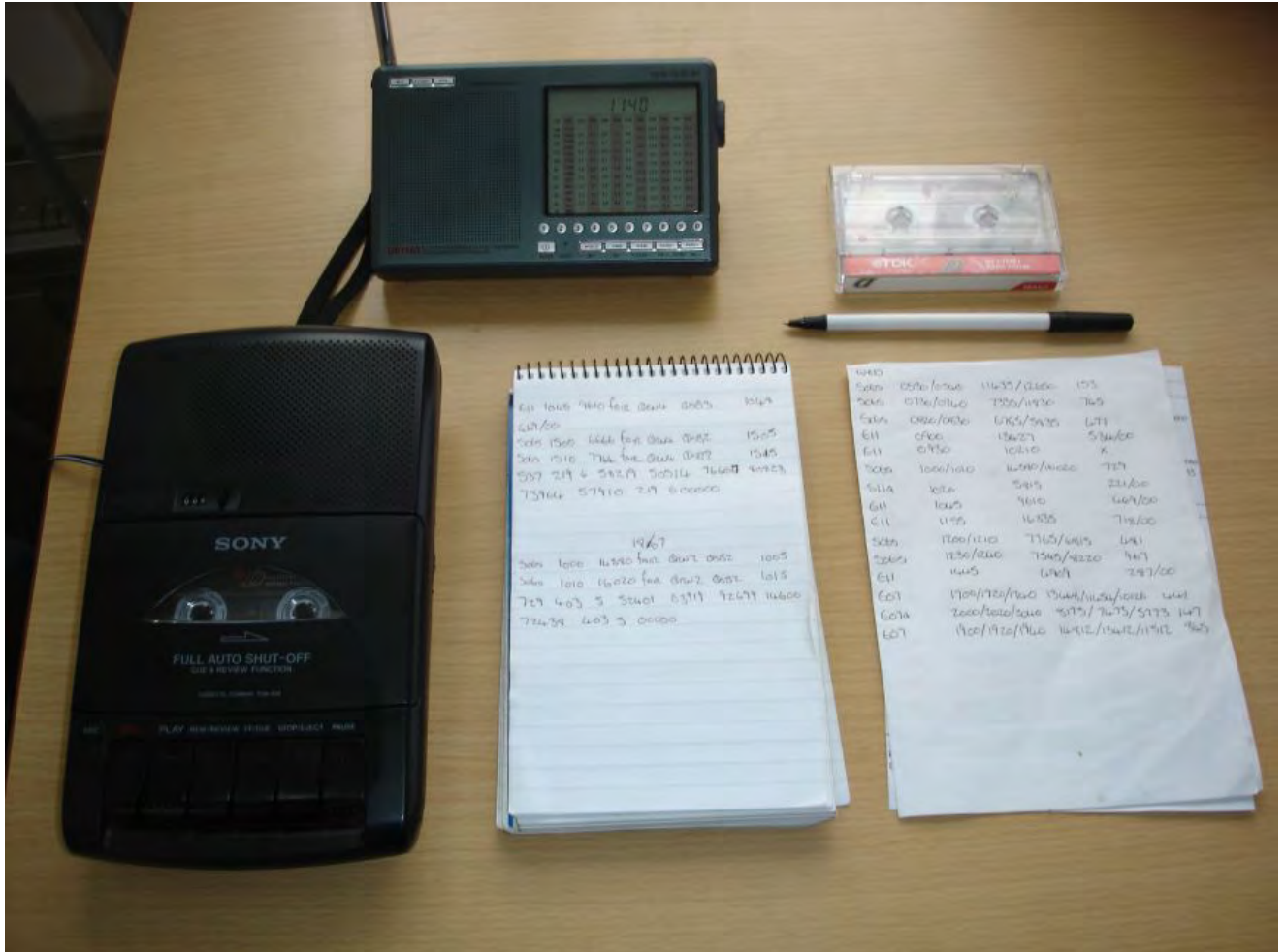
I set up my DX-394 receiver in the bedroom with a 5 meter wire antenna taped to the ceiling, reception was slightly better than it usually is at my QTH.

Unfortunately the weather was fairly poor at times with lots of heavy rain and two large thunder storms. The weather did effect short wave reception most particularly during heavy rain fall with thick dark clouds.

Reception appeared to be at its best during the more finer days, with a reduction in interference and a slight rise in signal strengths. Most voice stations I tried for I received clearly enough to log, but I still didn't catch clear transmissions of E17z and S21. I caught most S06s transmissions and was able to hear some E07 transmissions clearly as well.

When auditioning recordings I often like to use my Sony TCM-939 Tape Recorder, which is powered from the mains. The Tape Recorder has a useful Cue/Review feature which is good for auditioning tapes very quickly. The feature is activated after the Play button is pressed, then I can hold down either Forward and Rewind buttons and still hear whatever audio is on the tape.

It is very usefull when locating the Start and End of recordings on the tape, as a few seconds of no audio will be heard indicating the end of a recording. The short gap in audio happens when the DX-394 automatically turns off but the VAS Tape Recorder still records for a few seconds before it goes back into standby mode. This short gap in the audio is very handy feature when auditioning tapes.



Auditioning Tapes, Degen De-1103, Sony TCM-939, Notepad and Hand written Enigma 2000 schedule.

When I was visiting a nearby town during the first week of my holiday I purchased an old Panasonic Ghetto Blaster RX-5120 LE from a Scope Charity shop for £4.50, which was cheaper than a pint of Fosters and a half Shandy which would cost £4.90 at the holiday village.

The RX-5120 LE is a great big heavy thing complete with the SW band from 5.9MHz to 18MHz with no gaps. Tuning was very easy and stable, it was great for listening to broadcasting stations and it wasn't hard to tune into S06 and E07 with the receiver too.

The sound quality is superb from the receiver as it has 4 speakers built into the unit, and it is loud. I never set the volume control over 1, as it was loud enough.

They didn't call these things ghetto blasters for nothing did they?

The receiver also featured LW, MW, FM stereo, built in Tape Recorder (which works), a LED Signal Meter, attachment ports for a long wire antenna for FM and SW reception and AC, DC power connections too.

Also the usual phono and microphone connections, an additional output to an external speaker and an old DIN socket for an external tape recorder as well.

I believe the receiver was manufactured in 1983, so it is almost 30 years old and quite a bargain.

My Degen DE-1103 receiver did most of my live monitoring during any spare time I had, but it was very interesting to catch Dutch Pirates on MW from the receiver as I was able to receive Radio Calypso clearly at around 1622kHz during some evenings.

It was a first for me to receive Pirate Radio on the MW bands, since I am always plagued with heavy QRM at my usual location.

There was some very interesting activity monitored during my holidays, as E11a appeared to be very active over my holiday period. E07a sent an even 46 group message on the 18/07, which appeared to be strange because the station always sends an odd amount of groups in each message it sends.

Also what happened to E06 5731kHz 2130z schedule? I auto monitored and heard a test count (with scratchy audio) roughly 1 hour before the message was supposed to be sent.

At 2130z nothing was heard from my auto recording. When I came back from the club at 2230z I noticed the carrier signal was still present so I continued monitoring the signal until 0030z, but no voice was heard during this monitoring session.

And of course E06 0030z 9061kHz never came, it is definitely the end for 759.



Panasonic RX-5120 LE, Battery Charger, Battery Tester and Orbit OR-9803 (Beach side Companion and excellent little receiver.)

See Sample Logs for Wednesday 11th and Wednesday 18th of July 2012 below:

Sample Logs 11th July 2012

RX	Station & Frequency	Time	Reception & Comments
DX-394	S06: 11435kHz	0530z	Fair QRN2 QSB3
DX-394	S06: 12650kHz	0540z	153 968 7 15009 03092 968 7 00000
DX-394	S06: 7335kHz	0730z	Fair To Strong QRN3 QSB3
DX-394	S06: 11830kHz	0740z	745 980 6 17358 15751 980 7 00000
DE-1103	S06: 6755kHz	0820z	Fair To Weak QRN3 QSB3
DE-1103	S06: 5835kHz	0830z	471 905 6 53754 89345 905 6 00000
DE-1103	E11 13427kHz	0900z	Weak QRN3 QSB2 534/00
DE-1103	S06: 14580kHz	1000z	Fair QRN3 QSB3
DE-1103	S06: 16020kHz	1010z	729 803 5 67423 09841 803 5 00000
DE-1103	Crowd 36 14650kHz	1143z	Fair QRN2 QSB2 Data TX In Progress
DE-1103	E11a 16332kHz	1155z	Weak QRN3 QSB4 719/32 89593 ...
DX-394	S06: 7765kHz	1200z	Weak QRN3 QSB4
DX-394	S06: 6815kHz	1210z	481 Call Heard Only
DX-394	S06: 7545kHz	1230z	NRH
DX-394	S06: 8220kHz	1240z	NRH
	E11 4909kHz	1445z	Not Monitored
DE-1103	E07 13468kHz	1700z	Fair To Weak QRN3 QSB3
DE-1103	E07 11454kHz	1720z	441 000
DX-394	E07 14812kHz	1900z	Fair QRN3 QSB3
DX-394	E07 13412kHz	1920z	845 000
DX-394	E07a 8173kHz	2000z	Fair QRN3 QSB3 - Fair BCQRM4 QSB3
DX-394	E07a 7473kHz	2020z	147 1 30704 538 77 12210 17664 000 000
DX-394	E07a 5773kHz	2040z	147 1 30704 538 77 12210 17664 000 000

Sample Logs 18th July 2012

EX	Station & Frequency	Time	Reception & Comments
DX-394	S06s 11435kHz	0530z	Weak QRN3 QSB3
DX-394	S06s 12650kHz	0540z	153 268 7 11171 ... 53718 268 7 00000
DX-394	S06s 7335kHz	0730z	Weak QRN3 QSB3
DX-394	S06s 11830kHz	0740z	745 209 6 21767 ... 41412 209 6 00000
DE-1103	S06s 6755kHz	0820z	Weak QRN4 QSB4
DE-1103	S06s 5835kHz	0830z	471 D4Escuh To Copy
DE-1103	E11a 13427kHz	0900z	Fair QRN3 QSB3 537/30 16782 ... 88502
DE-1103	S06s 14380kHz	1000z	Fair QRN2 QSB2
DE-1103	S06s 16020kHz	1010z	729 403 5 52481 ... 72438 403 5 00000
DE-1103	E11 16332kHz	1155z	Fair QRN3 QSB2 718/00
DX-394	S06s 7765kHz	1200z	Weak QRN3 QSB3
DX-394	S06s 6815kHz	1210z	481 502 6 09394 ... 58604 502 6 00000
DX-394	S06s 7545kHz	1230z	NRH
DX-394	S06s 8220kHz	1240z	NRH
DX-394	E11 4909kHz	1445z	NRH
DE-1103	E07 13468kHz	1700z	Fair QRN3 QSB3
DE-1103	E07 11454kHz	1720z	441 1 341 55 14428 ... 55054 000 000
DE-1103	E07 10126kHz	1740z	441 1 341 55 14428 ... 55054 000 000
DX-394	E07 14812kHz	1900z	Fair QRN3 QSB3
DX-394	E07 13412kHz	1920z	845 000
DX-394	E07a 8173kHz	2000z	Strong STANAGQRM3 QSB2
DX-394	E07a 7473kHz	2020z	147 1 68986 423 46 44743 ... 05563 000 000
DX-394	E07a 5773kHz	2040z	147 1 68986 423 46 44743 ... 05563 000 000

Many thanks Spectre, an interesting piece indeed. If others have details of their holiday radio activities we'd be glad to learn about them and consider inclusion in the newsletter; similarly any radio oriented activities will be considered.

Now onto other news items

Colombian man arrested for espionage in Nicaragua

Friday, 15 June 2012 11:59 Olle Ohlson Pettersson

<http://www.colombiareports.com/colombia-news/news/24621-colombian-man-accused-of-espionage-in-nicaragua.html>

The Nicaraguan military reported Thursday that a Colombian man has been arrested in the Central American country for spying on the behalf of the Colombian state, according to Colombian weekly Semana.

Luis Felipe Rios, a 34-year-old Colombian national allegedly employed by the intelligence wing of the Colombian military, was arrested in the capital Managua on Tuesday after having been followed by Nicaraguan authorities for over a year, said General Julio Cesar Aviles of the Nicaraguan army.

"He was looking to obtain Nicaraguan state documents about defense and national security," said the general.

The alleged spy arrived in the country in 2010, apparently presenting himself as a Spanish citizen working for a publication that writes about security and violence issues, wrote Colombian newspaper Vanguardia Liberal.

Nicaraguan prosecutor Armando Juarez said that there was "sufficient proof" to raise a case against Felipe.

Colombian President Juan Manuel Santos responded to the national security issue Friday. "[Authorities] are investigating information about an alleged spy, a Colombian citizen," he said.

Relations between the two countries have been strained since Nicaragua laid new claims to the Colombia's San Andres archipelago, located close to the Nicaraguan coast. Colombia has controlled the archipelago, which includes the islands of San Andres, Providencia and Santa Catalina, since the 1928 Esguerra-Barcenas Treaty. Nicaragua has long refuted the treaty which was put into effect while the country was under U.S. military occupation. The dispute is currently being settled at the International Court of Justice in Holland.

<http://www.colombiareports.com/colombia-news/news/24621-colombian-man-accused-of-espionage-in-nicaragua.html>

Nicaragua prosecutor demands 17-year sentence for Colombian spy

Tuesday, 10 July 2012 08:17 Sarah Kinoshian

<http://www.colombiareports.com/colombia-news/news/25001-nicaragua-prosecutor-demands-17-year-sentence-for-colombian-spy.html>

Nicaragua's prosecutor general requested Monday that a Colombian man guilty of spying on the Central American country be sentenced to 17 years and six months in prison.

"That Mr. Luis Felipe Rios Castaño is declared guilty and with a sentence of up to 17 and a half years for the crimes of intrusion and revelation of state secrets," said prosecutor Manuel Reyes before a Managua judge and a silent defendant.

Luis Felipe Rios Castaño, a 34-year-old Colombian national, was arrested in Nicaragua's capital Managua in mid-June after having been followed by the country's authorities for over a year.

In closed-door proceedings later that month, Rios plead guilty to espionage and disclosure of state secrets.

The alleged spy arrived in Nicaragua in 2010, apparently presenting himself as a Spanish citizen working for Edefa, a Spanish publication that specializes in security and aviation issues.

Rios' final sentencing is set for the following Thursday.

<http://www.colombiareports.com/colombia-news/news/25001-nicaragua-prosecutor-demands-17-year-sentence-for-colombian-spy.html>

Nicaraguan court sentences Colombian in spying case

July 12, 2012 • 10:15 PM

<http://news.terra.com/nicaraguan-court-sentences-colombian-in-spying-case,6bbcc064c1e78310VgnVCM3000009acceb0aRCRD.html>

A Nicaraguan court on Thursday sentenced a Colombian to 16 years in prison on charges of spying and passing information to his home country.

The court sentenced Luis Rios to two consecutive eight-year prison terms for violating state secrets and meddling in domestic affairs.

Rios was captured last month and accused of bribing two Nicaraguan military officers for secrets he then passed to Colombian intelligence officials.

Diplomatic tensions between the two Latin American countries are already running high as they await a ruling from the International Court of Justice in The Hague on a long-standing dispute about which country owns a string of islands in the Caribbean.

Rios, who confessed to the crimes, posed as a reporter specializing in defense and security issues and said he agreed to become a spy in order to avoid fraud charges in Colombia.

The two military officers, Leonidas Castillo and Amaru Alvarez, have already been convicted by a military court and sentenced to 17 years in prison. (Reporting By Ivan Castro; Editing by Peter Cooney)

<http://news.terra.com/nicaraguan-court-sentences-colombian-in-spying-case,6bbcc064c1e78310VgnVCM3000009acceb0aRCRD.html>

Security services to get more access to monitor emails and social media

Britain has quietly agreed to new European standards on electronic communications

Mark Townsend

Saturday 28 July 2012 12.12 BST

<http://www.guardian.co.uk/technology/2012/jul/28/isecurity-services-emails-social-media>

Britain has quietly agreed to measures that could increase the ability of the security services to intercept online communications, experts say. Although the Home Office is at pains to stress that the draft communications and data bill, which is going through parliament, will not involve checking the content of emails and social media, experts say British officials have been simultaneously involved in international moves that could allow increased interception of online data – moves that will not be subject to the scrutiny of MPs.

The European Telecommunications Standards Institute (Etsi), the body that sets industry standards, has agreed measures that analysts say could force internet service providers to ensure that their systems meet government standards for intercepting communications.

The government's data bill restricts the authorities to only being able to see who is contacting whom, when, where and how, while the content of online communications would remain private unless a court warrant was obtained.

A joint scrutiny committee of MPs and peers, set up following widespread concerns about increased intrusion following the unveiling of the draft bill last month, is understood not to have been informed of the Etsi standards, which critics say could precipitate an escalation in state surveillance.

While the bill does not authorise interception, experts warn that there is nothing in the proposals that prevents the authorities from then installing their own hardware capable of intercepting the communications network.

A draft report from the Etsi technical committee on lawful interception, dated April 2012, indicates that standards have been agreed that could lead to increased data interception. It reveals that measures have been agreed to monitor "nomadic access", which means surveillance of an individual whether they go online from their home computer, mobile or an internet café. To facilitate this, service providers "must implement a Cloud Lawful Interception Function (Clif)" that could mean the installation of a new monitoring interface "or more likely ensuring presentation of information in a format recognisable to interception mechanisms".

Etsi has faced criticism in the past for the pre-emptive inclusion of wiretapping capabilities, a decision that critics say encouraged European governments to pass their wiretapping laws accordingly. According to Ross Anderson, professor in security engineering at the University of Cambridge Computer Laboratory, the institute has strong links with the intelligence agencies and has a significant British contingent, along with a number of US government advisers.

The development has led to fears among civil liberties campaigners that the bill could become a stepping stone towards plans to monitor and control access to content.

Anderson said: "It's an absolutely massive extension of state surveillance. At present the government can watch anybody. What they want in the future is to get into a position where the government can watch everybody."

"They are saying this is only about communications data, but in fact it is not. If you build the infrastructure that Etsi have agreed, it can be used for interception."

The documents show that there is a clear and continuing intention to use it for interception."

Some experts believe that allowing the government to install its own hardware at internet service providers, as currently proposed by the bill, would have to comply with the Etsi standards and would lead to interception of an individual's online content.

Nick Pickles, director of the privacy and civil liberties campaign group Big Brother Watch, said: "We're seeing moves at an international level to make it easier for the content of communications to be intercepted. For Home Office officials behind the communications data bill, spying on who we are emailing or Skypeing is not their final objective. Officials from Britain are working internationally to force service providers to ensure that their systems are easy to tap into."

He said it was worrying that the Etsi standards had not been disclosed to the committee of MPs and peers, introduced as one of the safeguards following opposition to the proposals. The committee will examine all aspects of the draft bill and is expected to report in November.

However, a Home Office spokesman said there were no plans to collect the content of online data.

"It is simply untrue to suggest we would be able to collect the content of communications data. The changes we are making only relate to the who, where and when of communications data. The interception of the content of any communications is a completely separate matter and continues to be strictly controlled by the Regulation of Investigatory Powers Act, requiring a warrant signed by the secretary of state."

<http://www.guardian.co.uk/technology/2012/jul/28/iscurety-services-emails-social-media>

Submariner accused of passing encryption data to 'enemy'

A Royal Navy submariner allegedly passed computer codes used to encrypt secret messages to an enemy state, the Old Bailey heard.

By Tom Whitehead, Security Editor

4:57PM BST 11 Jun 2012

<http://www.telegraph.co.uk/news/uknews/law-and-order/9324590/Submariner-accused-of-passing-encryption-data-to-enemy.html>

Petty Officer Edward Devenney, 29, is accused of breaching the Official Secrets Act by collecting and passing on the code breaking data.

He is said to have handed over the secret information, which might be useful to an enemy, to an unnamed individual in January this year.

He is also accused of gathering data on encryption and cryptography technology between November 18 last year and March 7 this year.

Cryptography is the technique used in programmes to encrypt secret information.

Information on the techniques is likely to be examined in a closed hearing at any future trial.

He was arrested at his barracks in Plymouth in March. At an earlier hearing, Westminster magistrates' court heard he allegedly offered military information to a foreign embassy.

An application for bail – heard in chambers at the Old Bailey on Monday – was refused by the judge, Mr Justice Saunders. He also granted anonymity to potential security industry witnesses due to give evidence.

Devenney, of Strabane, Co Tyrone, Northern Ireland, was due to enter a plea to two breaches of the Act, but the case was adjourned for legal reasons.

Appearing via videolink from Wandsworth prison, in southwest London, and dressed in a green shirt and blue striped sweater, he spoke only to confirm his name.

He will return to court on a date to be fixed in early October to enter a plea. A provisional trial date has been set for November 13.

It will be decided during the October which parts of the evidence will need to be heard in secret.

The petty officer's legal team are currently in the process of consulting security experts. They were given until July 20 to submit their defence case to the court.

He is being represented by Lord Carlile of Berriew QC, a leading barrister and former MP who defended Paul Burrell, who was the butler of Diana, Princess of Wales.

Devenney, who served at HMS Drake in Plymouth, Devon, faces two charges under 1911 Official Secrets Act.

They are collecting information for a purpose prejudicial to the safety or interests of the state, collecting any secret official code word or password or sketch, plan, material article or note, or other document or information, namely cryptographic material that was calculated to be or might be, or was intended to be directly or indirectly useful to an enemy.

The second charge relates to communicating information to another person for a purpose prejudicial to the safety or interests of the state, communicating to another person information that was calculated to be or might be or was intended to be directly or indirectly useful to an enemy.

In 2008, in an unrelated case, Corporal Daniel James, an Army translator who worked for the head of Nato forces in Afghanistan, was found guilty of breaching the Official Secrets Act.

Cpl James, 45, an Iranian by birth, sent coded emails to about British troop movements to the Iranian military attaché in Kabul.

In 2010, MI6 employee Daniel Houghton, was also convicted and jailed for breaching the act.

The IT graduate, 25, helped develop a method of intercepting emails in the secret service, but tried to sell official secrets for £2 million to agents from the Netherlands.

In 1997, former MI6 officer Richard Tomlinson was jailed for violating the Official Secrets Act by giving a synopsis of a proposed book to a publisher.

He pleaded guilty to the breach, after apparently giving details of his career in the Secret Intelligence Service, but the book was later published.

In 1983, Foreign and Commonwealth Officer Sarah Tisdall was imprisoned for leaking government documents to the Guardian newspaper.

<http://www.telegraph.co.uk/news/uknews/law-and-order/9324590/Submariner-accused-of-passing-encryption-data-to-enemy.html>

MI5 warned Scotland Yard that policemen in its ranks were suspected of attending terrorist training camps, it can be disclosed.

Abdul Rahman admits travelling to Pakistan in 2001 but denies attending a terror camp

By Ben Leach, and David Barrett

9:00PM BST 12 May 2012

<http://www.telegraph.co.uk/news/uknews/terrorism-in-the-uk/9262379/MI5-feared-British-police-attended-terrorist-camps.html>

The policemen lost their jobs when their security clearance was revoked by senior officers after checks were carried out because of fears of "sleepers" in the ranks.

The Sunday Telegraph can also disclose today the identity of one of the policemen suspected of being at a terror camp in 2001.

Abdul Rahman had been a constable for almost three years when MI5 warned that he might have visited a training camp in Pakistan when he travelled there.

He resigned rather than be dismissed from the force and is now suing Scotland Yard for compensation. He says he is entirely innocent and has never been to a terrorist training camp.

His lawyers say he has never been questioned, arrested or charged under terrorism legislation.

Mr Rahman, 33, is the first British policeman ever disclosed to have failed counter-terrorism checks.

Scotland Yard submitted in legal documents that it acted against Mr Rahman “for the purpose of safeguarding national and public security”. A source familiar with the case said there were either one or two other officers who had also lost their jobs because of MI5’s suspicion that they might have trained as terrorists.

“There was concern that these people had come into the force under false pretences,” the senior Metropolitan Police source said. “There were two or three cases at the same time that were of a similar nature, where there were concerns about potential terrorist links.”

The development raises concerns about the ease with which potential terrorists might infiltrate the police and compromise national security.

It is believed that Mr Rahman’s clearance was revoked as part of a root-and-branch security review carried out by MI5 after the July 7, 2005 terrorist attack, and the subsequent failed July 21 bombings.

The fact that he was under MI5 suspicion was disclosed in court documents made public as he fights a lengthy legal case over his departure from the force.

The case is so sensitive that it is being heard by a security-vetted judge.

Mr Rahman, a Muslim who was born in Bangladesh before being raised in London and becoming a British citizen, does not dispute that he went to Pakistan in 2001.

However, his lawyers say he has been “tangled up” in national security legislation.

Mr Rahman became a probationary constable in the Metropolitan Police in September 2003 then attended Hendon Police College, completing his initial training in March 2004.

His passing out parade, at Hendon, was reviewed by the former Deputy Assistant Commissioner Peter Clarke, who at the time was Britain’s most senior counter-terrorism police officer.

As part of his recruitment Mr Rahman underwent a process of security vetting known as a counter-terrorist check (CTC).

However, his security clearance was suspended on June 22, 2006. He was interviewed three times — most probably by counter-terrorism officers — in the following months.

In November 2006 he was told by Det Chief Supt Robert Sait — a senior officer in the Metropolitan Police’s specialist operations directorate, which includes the counter-terrorism command — that his CTC vetting clearance had been revoked.

Mr Rahman was told that he had an internal right of appeal against the decision, which he decided to exercise.

A week before the appeal hearing in June 2007 he was told that if the hearing confirmed the removal of his CTC clearance he was likely to be dismissed.

The appeal hearing was conducted by Mr Clarke, who upheld the decision to remove his CTC clearance. Mr Rahman resigned immediately.

Shortly before Mr Rahman’s clearance was suspended, MI5 rechecked details of officers and civilian staff at the Met, and other forces, against their records of suspects who had been to Pakistan or Afghanistan and who it suspected might have attended terrorist training camps or madrassas — Islamic schools — run by extremists. Mr Rahman, who is married with four children, declined to comment on the case. He claims he is the victim of racial and religious discrimination.

His lawyer, Jasmine van Loggerenberg, of Russell Jones and Walker, said: “My client absolutely denies the allegations against him and this forms the basis of his claims against the police.

“It’s important to stress that this is a case being brought by Mr Rahman, not by the Metropolitan Police.

“There are no criminal proceedings against him. Mr Rahman has never been arrested, questioned or charged in a criminal context in relation to these proceedings.”

Mr Rahman’s father, who lives in Poplar, east London, said: “He is a very genuine and very honest man. He has nothing to hide. He is a family man.

“The allegations against him are untrue. He is very pious, he prays five times a day and I think he didn’t fit in in the police because of that.”

Last month, after a five-year legal battle, the Employment Appeal Tribunal ruled that his case could be held in secret although Mr Rahman had wanted a public hearing. Mr Justice Mitting, a High Court judge who also specialises in terror cases in his role as

chairman of the Special Immigration Appeals Commission, ruled that Mr Rahman and his legal team would be banned from parts of the hearing that concerned issues of national security.

Scotland Yard applied to have Mr Rahman’s case heard in secret because it is keen to protect intelligence sources which provide highly-sensitive information.

These sources might be compromised if the sensitive evidence emerges in open court. Some of the information might have come from overseas security services, such as the CIA.

Instead, a security-cleared “special advocate”, rather than his own lawyer, will be appointed on Mr Rahman’s behalf.

However, he will be banned from discussing the case with Mr Rahman and his lawyers. Mrs van Loggerenberg said that it was Mr Rahman’s position that questions of national security could “override natural justice”.

Mrs van Loggerenberg said: “This case also raises important issues on whether practices which disadvantage innocent people on the basis of their ethnic or religious background can ever be justified, when the allegations that result are so serious.”

Scotland Yard’s vetting unit is regarded as one of the best in Britain, mainly because the force has countrywide responsibilities in counter-terrorism.

However, it is understood that there are difficulties carrying out full checks on applicants born abroad or who have spent a long time living outside Britain.

MI5 carries out the CTC vetting on behalf of the Met, other police forces and government departments.

It is the lowest of three levels of vetting under the Cabinet Office's Security Policy Framework. However, individuals who pass the CTC procedure are allowed access to documents classified as "confidential" and can be granted occasional access to "secret" documents.

They also have access to areas where classified papers are stored.

CTC applicants must fill in a detailed form. They are required to declare whether they have ever spent significant time outside Britain.

MI5 checks the applicant against its databases, and the person's name is also run through the Police National Computer.

The process also includes checks to verify a person's identity and their employment and education references.

It can take up to six months to complete vetting and clearance is valid for three years.

"If police officers lose their CTC they are effectively unemployable," said a police source.

"They cannot be allowed to access the Police National Computer, or other vital things in the course of their day-to-day work."

James Cleverly, a Conservative member of the London Assembly committee that oversees the Met's work, said: "The fact is that this was flagged up and the security clearance was rescinded, showing the Met is not blasé about such issues."

"The system seems to have worked at that level."

A spokesman for Scotland Yard said: "Mr Rahman, a former police constable, is bringing two employment tribunal claims against the Metropolitan Police Service alleging race discrimination and employment equality."

"A full merits hearing is yet to be listed."

The Government introduced new laws making it a criminal offence to attend a terrorist training camp as part of the Terrorism Act 2006. The offence carries a maximum penalty of 10 years' imprisonment.

The first convictions under the new offence were secured in 2008.

A spokesman for the Association of Chief Police Officers said: "All police employees undergo a range of security checks when they join the service and, as necessary, these are reviewed through the course of their career depending on where they work and the nature of the material they are dealing with."

<http://www.telegraph.co.uk/news/uknews/terrorism-in-the-uk/9262379/MI5-feared-British-police-attended-terrorist-camps.html>

Drone warfare: a new generation of deadly unmanned weapons

Business is booming at the vast base in Nevada, where tomorrow's Top Guns are learning to target terrorists from afar

Rory Carroll at Holloman air force base

Thursday 2 August 2012 16.40 BST

<http://www.guardian.co.uk/world/2012/aug/02/drone-warfare-unmanned-weapons>

The electronic cavern is dark, save for the glow of consoles, and Lt Col Mike Weaver surveys his apprentice warriors with satisfaction as they project American might halfway around the world. One crew – two young men in flight suits seated before half a dozen screens – prepares to fire missiles from a remotely piloted aircraft (RPA) at a boatload of suspected insurgents in Afghanistan. Another crew circles a suspicious bulge by a roadside in Iraq and feeds co-ordinates to ground troops. Another tracks what appears to be a vehicle in Yemen.

"There's not a lot of time for emotion here. There's a war going on and we have a job to do," says Weaver, a veteran F15 fighter pilot.

The only sound is the whirr from multiple computers, their entrails exposed, and the occasional murmur from a pilot into an earpiece. "I've flown manned aircraft and believe me this, in terms of combat, is more up close and personal."

Weaver is speaking from Holloman air force base in New Mexico, about 8,000 miles from the scenes depicted on the screens, but he and the crews embody not only the "war on terror" but the future of US military force.

The missions, in fact, are simulations. The crews are students yet to earn their wings. But this vast base, covering 24,000 hectares of scorched desert, is fast becoming a type of Top Gun academy for a new generation of airmen and women who operate not from cockpits but trailers wedged in the sand.

A fleet of F-22 Raptors, state-of-the-art, manned fighter jets, are to be moved to another base to let Holloman focus on training crews for unmanned MQ-1 Predators and MQ-9 Reapers – drones, in common parlance.

The base has rapidly expanded and accelerated training to meet booming Pentagon demand. This year it will graduate 360 crews, products of a new, drone-specialised syllabus that has halved the year-long period to train conventional fighter pilots. A crew comprises a pilot, a sensory operator and, in some cases, a mission co-ordinator. Around 95% stay in the US.

"We're getting the best and brightest," says Major Jason, 35, an instructor pilot who, like several colleagues, withheld his surname for security reasons. "There's a bright future for RPAs so we're getting motivated, sharp guys."

Also known as unmanned aerial vehicles (UAVs), not so long ago they were scorned by many in the military. "It wasn't the sexy thing to be seated in a ground control station. But we're changing a lot of minds," says Captain Chad, 29, another instructor. "People are seeing our capabilities and what we're doing."

What the burgeoning RPA fleet is doing, above all, is enabling the Obama administration's tracking and lethal targeting of Islamist radicals in Afghanistan, Pakistan, Somalia and Yemen, a campaign estimated to have killed at least 2,000 people.

To critics including the former president Jimmy Carter, legal scholars and human rights groups, the strikes are extrajudicial executions that violate nations' sovereignty, stain US moral standing and fuel extremism.

Such critics may consider it apt that Holloman straddles the Jornada del Muerto – Journey of the Dead Man – the macabre Spanish name for the perilous, waterless shortcut through the wilderness once used by Billy the Kid. Situated on a high desert plain, the base bakes by day, shivers by night and witnesses spectacular lightning storms. It has evocative neighbours. To the east, Roswell, which the conspiratorially minded already associate with human-less aircraft; to the west,

Truth or Consequences, a town named after a 1950s radio quiz show.

At a time of cutbacks, Barack Obama has set aside around \$5bn for Predators and Reapers, signalling their growing importance and ubiquity as a policy instrument. The air force has struggled to supply enough crews for the multiplying hardware.

Hence Holloman's transition to running a dedicated RPA-only training programme that supplements military instructors with civilian contractors such as Keith Vraa, a retired air force lieutenant colonel, nicknamed Hoo, who runs simulations at the 16th training squadron. "So many pilots are on operations there aren't always enough left to instruct. We're here to fill the gap."

The course strips away the need for mastering cockpits and G-forces. Instead, trainees, after basic flight training, plunge straight into nuances such as multispectral targeting systems that integrate infrared sensors, enhanced TV cameras and laser designators and illuminators into single packages.

They learn that a Predator's relatively slow cruising speed – 84mph – is an advantage while "loitering" over targets. And that the much faster and larger Reaper, armed with Paveway II and GBU-38 joint direct attack munitions in addition to Hellfire missiles, "provides a unique capability to autonomously execute the kill chain against high-value, fleeting, and time-sensitive targets".

They train in simulators inside windowless, one-storey buildings as well as ground control stations, camouflage-painted trailers from which they control real RPAs over New Mexico's skies.

An increasing number of students are teenagers straight from high school. Others are veteran flyers of fighters, bombers and cargo planes who have been reassigned or are here by choice because of the dwindling number of available cockpits. "F16 pilots used to say they were coming from a Ferrari to a Ford Fiesta but you hear less of that now," says Chris, a sensory operator instructor.

"A lot of the higher-up ranks are here because they know this is the future. And who wouldn't want to be at the forefront of that?" He indicated a Predator on a runway.

Instructors are keen to correct two misconceptions. They are not all good at video games. And it is incorrect to call the aircraft drones – the word makes teeth grind – because they are at all times controlled by humans. Crews prefer the term RPA to UAV because "unmanned" diminishes their input.

All agree that RPAs are vital to protecting the US. Many say their primary task is protecting comrades by sharing real-time information about boobytraps or hidden gunmen, or preventing attacks by disrupting terror networks.

Doing so can require greater skill than being in a cockpit, they say, because they must multitask and hold multiple conversations through different media, in some cases while senior officers, intelligence analysts and military lawyers peer over their shoulders. They must stay focused for long stretches of surveillance, when not much happens, and be ready for sudden engagements.

"It's real. Sometimes you can hear gunfire and stress in the voice of the guys on the ground. There's no video game in the world that makes the difference between life and death," says Chad, the pilot, who used to fly missions from Creech air force base outside Las Vegas.

"On the drive home I would decompress. Listen to music, take a deep breath, compartmentalise so I could make the transition to husband, father, family man."

A certain defensiveness mingles with the pride. Asked about accusations that drone strikes are extrajudicial executions, or assassinations, Weaver stiffens. "That's for the politicians to consider. We follow the orders of our civilian leaders."

All bristle at any suggestion that waging war by remote control requires less bravery than traditional combat.

"There are different types of courage," says Jon, a lieutenant colonel, standing in an officers' bar adorned with a replica medieval suit of armour, a framed tomahawk and oil paintings of John Wayne and Clint Eastwood. "Ours requires moral courage. We take moral and legal risks. If I pull the trigger and I'm wrong I have to live with the consequences."

<http://www.guardian.co.uk/world/2012/aug/02/drone-warfare-unmanned-weapons>

The 7oz helicopter that could help beat the Taliban: \$35,000 device enables soldiers to look at enemy territory without risk of being killed

By Ian Drury

PUBLISHED: 00:02, 3 August 2012 | **UPDATED:** 12:10, 3 August 2012

<http://www.dailymail.co.uk/sciencetech/article-2182916/The-7oz-helicopter-help-beat-Taliban-20-000-device-enables-soldiers-look-enemy-territory-risk-killed.html#ixzz22UVUwJjT>

It fits in the palm of your hand, weighs the same as a bag of sweets – and could become a potent new weapon in our fight against the Taliban.

Military chiefs believe a £20,000 spy drone called the SQ-4 Recon, one of the smallest unmanned aerial vehicles in the world, will save soldiers' lives in Afghanistan.



The 'nanodrone' contains two cameras which allow soldiers to look over hills and inside enemy bunkers without the risk of being killed or injured. It can be operated remotely by troops sitting in a control room thousands of miles away or by soldiers on patrol using a seven-inch tablet computer.

Weighing just seven ounces and with a nine-inch diameter, the nanodrone can fly and hover for 30 minutes or switch off its engines and perch like a bird on the ledge of a building, and, without being spotted, zoom in on suspicious activities for up to eight hours. Its cameras can transmit live images or take still photos or video footage using day or night vision.

This means soldiers can carry out reconnaissance missions without putting themselves at risk of walking into an ambush or stepping on a buried bomb.

Devised by Cardiff-based BCB International and Middlesex University's Autonomous Systems Laboratory, the SQ-4 Recon is being examined by the US military.

The Ministry of Defence is also aware of the nanodrone's potential.

Andrew Howell, managing director of BCB International, said: 'This gives the modern war fighter the ability to carry out reconnaissance tasks without putting themselves in harm's way.

'The video footage could give information on where the enemy is located, what they look like, how they are dressed and what weapons they have.

'Should things take a turn for the worse, no operators can be captured or killed. It also allows for more service personnel to be released for frontline duties.'

The current drones deployed in Afghanistan are so large they have to be launched like conventional fixed-wing aircraft and make easy targets for Taliban marksmen.

In February, Defence Secretary Philip Hammond admitted that 'new nano-unmanned aerial systems... are planned for introduction'

<http://www.dailymail.co.uk/sciencetech/article-2182916/The-7oz-helicopter-help-beat-Taliban--20-000-device-enables-soldiers-look-enemy-territory-risk-killed.html#ixzz22UVUwJt>

Drone race will ultimately lead to a sanitised factory of slaughter

The rise in use of drone attacks and the technology that goes with them is the final step in the industrial revolution of war

Noel Sharkey

Friday 3 August 2012 15.27 BST

<http://www.guardian.co.uk/world/2012/aug/03/drone-race-factory-slaughter>

The CIA has killed more than 200 children in drone strikes outside of legitimate war zones since 2004, it is alleged. In Pakistan, Yemen and Somalia an estimated total of between 451 and 1,035 civilians were killed in at least 373 strikes according to the Bureau of Investigative Journalism, the most accurate source of "kill statistics".

Who in their right mind would give a powerful unmanned air force to a covert organisation with such a track record for unaccountable and illegal killing? The number of strikes in Pakistan has dramatically increased from 52 under George W Bush during his five years of conflict to 282 during Obama's three and a half-year watch. Obama is establishing a dangerous precedent that is, at best, legally questionable in a world where more than 50 countries are acquiring the technology.

This is big business with billions of dollars at stake. Israeli companies are pursuing new drone markets in Asia and Latin America. The US has restricted drone sales to its allies but now, with defence budgets shrinking, companies such as Northrop Grumman and General Atomics are lobbying their government to loosen export restrictions and open foreign markets in South America and the Middle East. Other countries such as India and Pakistan are also hungry for the technology. Russia has unveiled its MiG Skat combat drone with on-board cruise missiles for strikes on air defences as well as ground and naval targets, while Iran demonstrated an armed rocket launched drone, the Karrar, in 2010.

But it is China that is showing the greatest commercial potential for selling armed drones. The US-China Economic and Security Review Commission noted with concern that China "has deployed several types of unmanned aerial vehicles for both reconnaissance and combat". More worryingly, the Washington Post quotes Zhang Qiaoliang from the Chengdu Aircraft Design and Research Institute as saying, "the United States doesn't export many attack drones, so we're taking advantage of that hole in the market". Given the 10-year spate of CIA drone strikes, what can be said when other countries use drone strikes against perceived threats in other states?

And this is just the beginning; current drones are like the Wright brothers' prototypes compared with what's coming next. And here is where the real danger resides: automated killing as the final step in the industrial revolution of war – a clean factory of slaughter with no physical blood on our hands and none of our own side killed.

Using programmed robots with no humans directly in the loop has been high on the agenda set by the US military roadmaps since 2004. And BAE systems has been developing an autonomous combat aircraft demonstrator, the Taranis, for the Ministry of Defence. There are several good military reasons for removing direct human control. Currently drones are used with ease against low-tech communities in a permissive air space. More technologically sophisticated opponents would adopt counter strategies such as jamming satellite signals to render them useless or bring them down. A fully autonomous drone could still seek out its target without human intervention. Other reasons include to take out the pilot – reduced numbers of personnel required to fly them, reduced cost, and faster control time: the 1.5 second delays caused by humans in the loop thousands of miles away means that a drone is powerless against a manned fighter. The speed of an unmanned craft is limited by its structure rather than by human G-force limitations. It can manoeuvre faster and take sharp turns that would injure or kill a human pilot on board.

The US has been testing the fully autonomous supersonic Phantom Ray and the X-47b will appear on US aircraft carriers in the Pacific by 2015. Meanwhile, the Chinese (Shenyang Aircraft Company) are working on the Anjian (Dark Sword) supersonic unmanned fighter aircraft, the first drone designed for aerial dogfights.

Hypersonic drones are also on the wishlist. Darpa, the Pentagon's research arm, has the HTV-2 programme to develop armed drones that can reach anywhere on the planet within 60 minutes. In recent tests their Falcon drone flew at a maximum speed of 13,000 mph (20,921.5 kph), about 8.5 times faster than the Russian MiG-25. The hypersonic fully autonomous drones of the future would create very powerful, effective, and flexible killing machines. The downside is that these machines will not be able to discriminate on their targets – there are no programmes capable of distinguishing civilian from combatant.

We have records of civilian casualties, including numerous children, from drone strikes when there are humans watching on computer screens and deciding when to fire. Think how much worse it will be when drones deal death automatically. Is this really a technology we want the secret intelligence services of the world to control?

• Noel Sharkey is professor of artificial intelligence and robotics at Sheffield University. He is a founding member of the International Committee for Robot Arms Control

<http://www.guardian.co.uk/world/2012/aug/03/drone-race-factory-slaughter>

Julian Assange granted political asylum by Ecuador; Britain maintains extradition pledge

By Karla Adam, Published: August 16

http://www.washingtonpost.com/world/europe/julian-assange-granted-political-asylum-by-ecuador-britain-maintains-extradition-pledge/2012/08/16/414c66c8-e7a5-11e1-9739-ef99c5fb285_story.htm

LONDON — WikiLeaks founder Julian Assange was granted asylum on Thursday by Ecuador, raising the possibility of a diplomatic showdown between British and Ecuadoran authorities.

The transparency campaigner has been holed up at the Embassy of Ecuador in London for nearly eight weeks after seeking refuge there in a bid to avoid extradition to Sweden, where he is wanted for questioning over alleged sex crimes.

The British Foreign Office made it clear Thursday that Ecuador's decision does not alter Britain's intention of fulfilling its legal obligation to extradite Assange. "We shall carry out that obligation," it said in a statement. "The Ecuadorian government's decision this afternoon does not change that."

At a news conference in Quito, Ecuador's foreign minister, Ricardo Patino, said Ecuador had decided to grant asylum "because of the fears expressed by Mr. Assange, we believe that his fears are legitimate, and there are threats that he could face political persecution if the measures aren't taken to avoid them."

Patino said Ecuador failed to get guarantees from Britain, Sweden and the United States that Assange would not be extradited from Sweden to the United States. His supporters believe he could be tried for espionage in the United States over his whistle-blowing Web site's release of hundreds of thousands of confidential military logs and diplomatic cables.

Firing off tweets, the British Foreign Office said it was "disappointed" with the decision. "Under our law, with Mr Assange having exhausted all options of appeal UK authorities are under binding obligation to extradite him to Sweden," it said.

It's not clear what's next for Assange, who faces arrest the minute he steps foot out of the Ecuadoran Embassy for breaching one of the conditions of his bail, namely to check in at a designated address between 10 p.m. and 8 a.m.

A few dozen police officers were stationed outside the embassy, in London's upscale neighborhood of Knightsbridge, as Assange supporters protested nearby.

"It's hard to see how practically he gets out of the country. The British won't acknowledge his asylum and aren't required to," said Julian Knowles, an expert in extradition law.

Ratcheting up diplomatic tensions further, Ecuadoran officials revealed Wednesday night that they had received a written warning from Britain saying that British police could enter the Ecuadoran Embassy to arrest Assange under the Diplomatic and Consular Premises Act, a little-known piece of legislation passed in 1987.

Initially, when Assange fled to the embassy June 19, the British government said he was beyond the reach of law enforcement officials. But Patino said Wednesday that British authorities informed them they could "storm" the embassy if Assange was not handed over.

The Associated Press said that the Swedish Foreign Ministry called in the Ecuadoran ambassador to complain about the decision. AP reported that Swedish Foreign Minister Carl Bildt said in a Twitter message, "Our firm legal and constitutional system guarantees the rights of each and every one. We firmly reject any accusations to the contrary."

It was clear in Patino's lengthy statement Thursday that the political temperature between Ecuador and Britain has risen sharply, with Ecuador feeling bullied by "colonial" Britain.

In June, Assange exhausted all of his legal options in Britain when the country's Supreme Court upheld Sweden's extradition request, ending a marathon legal battle that began after his arrest in December 2010.

Swedish authorities want to question Assange over allegations of sexual abuse involving two women he met in separate encounters during a trip to Stockholm in August 2010. The 41-year-old Australian strenuously denies the allegations, admitting he had brief affairs with the women but insisting the sex was consensual.

http://www.washingtonpost.com/world/europe/julian-assange-granted-political-asylum-by-ecuador-britain-maintains-extradition-pledge/2012/08/16/414c66c8-e7a5-11e1-9739-ef99c5fb285_story.htm

COMMENT

This is a fiasco, just look at the facts:

Assange leaks diplomatic cables in cahoots with Bradley Manning, a serving US soldier who is now in gaol.

When Assange goes on the run he's suddenly wanted to take part in an inquiry for his alleged rape of two women, apparently in Sweden. He was previously interviewed and told he could go.

Once extradition to Sweden is complete the case will be 'no further action' and then there'll be extradition to the US as Sweden is being used as a staging post.

This is a typical move from the US; they have discredited someone who has blown the lid on US actions throughout the world and Assange has outsmarted them.

Irrespective of the UK bail conditions that Assange has flunked HMG should keep its nose out of this and let the US do its own dirty work.

Now a special translation from Fritz:

A mysterious job application

Published in "Neue Zürcher Zeitung", August 9, 2012
Author: Dominik Landwehr

Recently released documents of US secret services prove how Swiss encrypted telegrams during WW 2 have been intercepted by NSDAP (vulgo Nazi) secret service.

Autumn 1948: WW 2 has ended two and a half years ago. Germany is in ruins. In Switzerland people still discover in surprise they survived the European disaster without much damage to the country. In this time Bern (capital of Switzerland) receives a voluminous document. It has been written by a crypto expert, who, on the German side, dealt with encrypted transmissions of Switzerland. The most important message of the document was: Nazi-Germany could with ease write down the Swiss encrypted wireless traffic. Autor of the document was a certain Bruno Kröger from Kaufbeuren.

Security Problems

During WW 2 Switzerland used German encryption technique. Into action came the famous ENIGMA machine, which, before the outbreak of war, was freely available. Swiss customers used the "K" type machine ("K" for "kommerziell"). The ENIGMA K was practically identical with those war machines, which could be decrypted later on by British specialists.

In the first part of the document Bruno Kröger explains, how the Swiss ENIGMA can be cracked. His judgement is more than clear: "There is no way, at this moment, to use the ENIGMA K such, that it may fulfill the needs of security."

In the second part he goes substantially far back and tries to establish common rules for the security of encryption methods. Only on the very last page Bruno Kröger deals with the real background of his letter: he simply is looking for a new job and now offers Switzerland his knowledge. His field of work he defines very generously and includes wholesale trade and big banks, because, "their secret correspondence was easy to decrypt."

Bruno Kröger's document, surprisingly, can not be retrieved in the Swiss Federal Archives nor in the Historic Archives of Military. A former employee of the Swiss Intelligence Service told the author about the Kröger paper and the former head of the cryptographic department of the Swiss Army made it available without delay.

It is not known, whether Bruno Kröger ever received an answer from Swiss authorities. According to sources the documents have been judged to be authentic. But: The informations were not new to Switzerland! The problems of the ENIGMA K were well known, both the design weaknesses and the mistakes due to wrong operation. That's why during WW 2 development of an own encryption machine was started, which did not suffer from such shortcomings. Its name was NEMA (simply for NEue MASchine, New Machine). However NEMA, an excellent machine, came into operation only after the war.

But who was Bruno Kröger? When the US National Security Agency (NSA) in June 2010 released documents from WW 2, a comprehensive report of more than 1000 pages was included, its title: "European Axis Signal Intelligence in World War II". This was the final report of the Ticom-Commission, dated 1. May 1946. Ticom means "Target Intelligence Committee", a secret allied group with the goal to describe the cryptographic activities of Nazi-Germany.

Among the most important statements was the discovery, that German cryptanalysts not were capable to read cryptographic systems of the highest level. Such systems were for example the American voice encryption machine with the codename SIGSALY, used for phone patches between Roosevelt and Churchill and the TYPEX, a Rotor Machine, which was recognised to be sure. On the other hand the Ticom Teams came to the conclusion, that the Germans cracked many codes and machines of intermediate security level and read the messages: "The results obtained by the German cryptanalytic successes were important, but not decisive."

By means of Ticom Interviews the allies found out, that the Germans did not have knowledge of the enormous operations in Bletchley Park, where a great part of their ENIGMA messages has been decrypted. Volume 7 of the Ticom Report deals on 122 pages with the German "Forschungsamt für Reichsluftfahrt" (Research Agency of Aviation), one of the many intelligence services of the Third Reich. And exactly here the name of Bruno Kröger appears again.

Marshall Hermann Göring directly was in charge of the Research Agency with its 2000 employees in Berlin-Charlottenburg. The main task of the Research Agency was the supply of information gained by interception of telephones, telegraph and wireless transmissions to the Nazi state. The evaluation of press releases was another branch. Unlike the name suggests, the Research Agency had nothing to do with a division of aviation, but was an intelligence service of the Nazi party.

Open Questions

On Mai 9th 1945 - the day after Germanys capitulation - the abandoned barracks of the "Forschungsamt" were discovered in Kaufbeuren. Part of the activities apparently have been dislocated from Berlin to Kaufbeuren. 20 of the 2000 employees of the "Forschungsamt" have been interviewed by Ticom specialists and - one of the 20 was Bruno Kröger. According to the available facts, there are no doubts about the identity of Bruno Kröger: he was one of the cryptographic experts of an intelligence service of the Third Reich, who was taken prisoner of the allies and there he answered for his connections. The documents for the US and Switzerland most probably were produced at the same time.

The files of Bruno Kröger and Switzerland are not yet closed. By far not all documents of the Ticom project are open to the public. It is unknown, what happened to Bruno Kröger after WW 2.

Tnx Fritz.

Chart Section Index

For July and August, 2012:

1. Logging Abbreviations Explained
2. European Number Systems
3. Prediction Chart
4. M01, M01b and M45 Schedules
5. M12
6. Family 1a History and predictions
7. Family 1b [E07]
8. Family III
9. G06
10. S06s Regular Schedule
11. XPA Polytone Schedules

Logging Abbreviations explained.

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

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

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

Freq: kHz [As above 10436kHz]

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

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

Msg detail: Varies with station

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

Msg count 1

Dk [decode key]: 563

Gc [group count]: 102

First group of msg: 92632

Text between grps: ...

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

Ending: 0 0 0 0 0 0

Time msg ends: 1753z

Received signal strength assessment: Fair

Noise QRM2

Fading to signal QSB2

Monitor: PLdn

Day heard: SUN

Unknown: unk

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

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

Received signal strength assessment.

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

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

Guidance for this can be sought from the Q code:

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

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

1) scarcely perceptible.

2) weak.

3) fairly good.

4) good.

5) very good.

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

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

Noise, Static and Fading.

Again guidance from the Q code:

Noise:

QRM Are you being interfered with?

I am being interfered with

1) nil

2) slightly

3) moderately

4) severely

5) extremely.

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

Static [Lightning and other atmospheric disturbance]:

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

Fading [Propagational disturbance]

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

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

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

Day Abbreviation

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

Mode used in transmission

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

Languages used

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

Non voice stations

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

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

See a correct example below which is now self explanatory:

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

And the incorrect version:

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

Additional Info:

Own station idents should not be used.

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

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

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

NUMBER SYSTEMS

European Numbers svtems:

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

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

2 ZWEI pronounced as TSWO

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

9 NEUN pronounced by some as NEUGEN

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

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

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

Notes on Numeral Systems used on selected Slavic Stations:

* Nula heard as 'nul'

^ Jeden heard as 'Yedinar'

' Tri heard as 'she'

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

Arabic Numerals [E25 and V08]

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

Chinese Number System:

[Particular attn to Yi/Yao pse].

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

Shi	Ten	Ba	One Hundred	Wan	One Thousand
-----	-----	----	-------------	-----	--------------

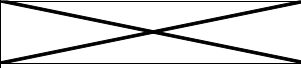
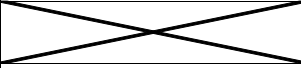
Chinese numeral construction:

For example:

San	Three
San Shi	Thirty. In English they are saying Three and Ten.
San Shi Jiu	Thirty Nine. In English they are saying Three, Ten and Nine.
San Bai	Three Hundred. In English they are saying Three and One Hundred.
San Wan	Three Thousand. In English they are saying Three and One Thousand.

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Sep kHz, ID, ...	Oct kHz, ID, ...
					x	x	0030/0130		E06	01A	6874/ 5179 759	6797/ 5122 759
	x		x				0340/0400/0420		M12	01B	5829/ 6929/ 8029 890	5872/ 6772/ 7672 876
			x				0430/0450/0510		E07A	01B	7437/ 8137/ 9137 411	5146/ 5846/ 6846 188
x							0450		E11	03	6304 416/00	6304 416/00
			x	x			0500/0600		E06	01A	12210/14830 354	/16320 186, search
		x					0530/0540		S06S	01A	10835/12170 153	10835/12170 153
	x						0600/0610		S06S	01A	14080/12355 438	14080/12355 438
				x			0600/0610		S06S	01A	6340/ 5470 934	6340/ 5470 934
				x			0600/0610		S06S	01A	7795/ 8695 196	
	x		x				0645		E11	03	10800 517/00	10800 517/00
						x	0700		M01	14	6508 463	6508 463
				x			0700/0710		S06S	01A		7795/ 8695 196
	x						0700/0710 (15)		S06S	01A	5760/ 6930 374	5760/ 6930 374
	x			x			0710		E11	03	10221 633/00	10221 633/00
		x					0730/0740		S06S	01A	7335/11830 745	7335/11830 745
	x		x				0745		E11	03	14575 335/00	14575 335/00
			x				0800		E17Z	01A	14260/12930 674	14260/12930 674
x							0800		G06	01A	6774 215	6774 215
	x						0800/0810		S06S	01A	11635/10420 352	11635/10420 352
x			x				0820		E11	03	6814 438/00	6814 438/00
		x					0820/0830		S06S	01A	7605/ 9255 471	7605/ 9255 471
x			x				0830		E11	03	10690 649/00	10690 649/00
			x				0840/0850		S06S	01A	9480/11040 328	9480/11040 328
x		x					0900		E11	03	9399 534/00	9399 534/00
			x				0900/0910		S06S	01A	12952/13565 167	12952/13565 167
	x			x			0915		S11A	03	7317 484/00	7317 484/00
			x				0930/0940		S06S	01A	8650/ 7385 314	8650/ 7385 314
				x			0930/0940		S06S	01A	12140/13515 516, search	12140/13515 516, search
	x						1000/1010		S06S	01A	6410/ 7340 893	6410/ 7340 893
		x					1000/1010		S06S	01A	13365/14505 729	13365/14505 729
x			x				1015		S11A	03	16112 475/00	16112 475/00

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Sep kHz, ID, ...	Oct kHz, ID, ...
	x			x			1020		S11A	03	9960 426/00	9960 426/00
		x			x		1020		S11A	03	5815 221/00	5815 221/00
	x						1045		E11	03	13424 576/00	13424 576/00
	x	x					1045		E11	03	7449 469/00	7449 469/00
				x			1110		E11	03	13375 95#/00	13375 95#/00
	x	x	x				1115		M03	03	9150 272/00 (Tue) & 650/00 (Wed/Thu)	9150 272/00 (Tue) & 650/00 (Wed/Thu)
						x	1120/1220	2	E06	01A	7471/ 154, search	7471/ 154, search
		x	x			x	1155		E11	03	15915 718/00	15915 718/00
x							1200/1210		S06S	01A	9145/11460 831	9145/11460 831
		x					1200/1210		S06S	01A	7120/ 6415 481	7120/ 6415 481
			x				1200/1210		S06S	01A	12415/14212 425	12415/14212 425
					x		1200/1210	1	S06S	01A	10350/ 8520 254	10350/ 8520 254
		x					1230/1240		S06S	01A	7620/ 8105 967	7620/ 8105 967
x							1300/1320/1340		M12	01B	search	search
			x			x	1320		M03	03	9150 437/00	9150 437/00
				x	x		1325		G11	03	5815 299/00	5815 299/00
					x		1500		M01	14	6261 463	6261 463
		x					1500/1520/1540		M12	01B	13524/11524/ 344	9223/ 8193/ 7463 839
	x						1500/1510		S06S	01A	6464/ 7245 537	6464/ 7245 537
				x			1515		M01B	14	5810 158	5810 158
			x				1505		M01B	14	5938 159	5938 159
	x			x	x		1535		M03	03	6977 798/00	6977 798/00
x						x	1540		E11	03	15915 228/00	15915 228/00
					x		1600 (1605)		S06	01A	8162/ 7612 134	8162/ 7612 134
x							1600/1610		S06S	01A	8040/ 6830 176	8040/ 6830 176
		x					1600/1620/1640		M12	01B	12162/11561/10711 546	12162/11561/10711 546
				x			1600/1620/1640		M12	01B	10343/ 9264/ 8116 124	10343/ 9264/ 8116 124
x							1700	1/2	G06	01A	4639 154	4639 154
x			x				1700/1720/1740		M12	01B	9176/ 7931/ 6904 257	9176/ 7931/ 6904 257
		x					1700/1720/1740		M12	01B	8047/ 6802/ 5788 463	8047/ 6802/ 5788 463

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Sep kHz, ID, ...	Oct kHz, ID, ...
		x				x	1700/1720/1740		E07	01B	12223/11062/10116 201	5412 892
			x				1700/1720/1740		M12	01B	10343/ 9264/ 8116 124	10343/ 9264/ 8116 124
				x			1710		E11	03	5194 95#/00	5194 95#/00
			x				1730		E11	03	9371 416/00	9371 416/00
	x					x	1755		G11	03	5815 270/00	5815 270/00
x							1800	1/2	G06	01A	5378 154	5378 154
	x		x				1800		M01	14	5474 463	5474 463
	x						1800		S06	01A		5890 286
x							1800/1820/1840		M12	01B	9176/ 7931/ 6904 257	9176/ 7931/ 6904 257
			x	x			1800/1820/1840		M12	01B	10343/ 9264/ 8116 124	10343/ 9264/ 8116 124
	x		x				1802		M45	14	4555, 4955 555	4555, 4955 555
x							1810		M01B	14	3535, 4590 420	3535, 4590 420
x							1815/1915	2/4	S06	01A	search	search
	x						1820		M14	01A	5945 346	5945 346
			x				1830	2/4	G06	01A	5935 579	5935 579
	x						1830/1850/1910		M12	01B	10343/ 9264/ 8116 124	10343/ 9264/ 8116 124
		x					1830/1850/1910		M12	01B	11435/10598/ 9327 938	11435/10598/ 9327 938
			x				1832		M01B	14	3510, 4605 201	3510, 4605 201
	x		x				1842		S21	14	4454, 4854 454	4454, 4854 454
x			x				1900 (1905)		S06	01A	5784/ 5127 349	5784/ 5127 349
x		x					1900/1920/1940		E07	01B	12108/10708/ 9208 172	10243/ 9243/ 7943 229
x			x				1900/1920/1940		M12	01B	9176/ 7931/ 6904 257	9176/ 7931/ 6904 257
	x		x				1900/1920/1940		XPA	01B	11576/10476/ 9276	9362/ 8062/ 7462
				x	x		1900/2000	1/3	M14	01A	9060/ 8180 724, search	
					x		1900/2000	1/3	S06	01A	5317/ 4492 416	5317/ 4492 416
					x		1900/2000	1/3	S06	01A	6942/ 5923 314	
				x			1902		M01B	14	3625, 4440 153	3625, 4440 153
x							1915		M01B	14	3644, 4454 771	3644, 4454 771
		x					1920/2020	2	E06	01A	4615/ 3704 154, search	4615/ 3704 154, search
		x					1920	2/4	M14	01A	5464 537	5464 537
				x			1930	2/4	G06	01A	5442 947	5442 947
					x		1930 (1935)		S06	01A	6788/ 4958 843	6788/ 4958 843

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Sep kHz, ID, ...	Oct kHz, ID, ...
			x				1942		M01B	14	3715, 4570 477	3715, 4570 477
	x						2000		E11C	03	6869 757/0000/00	6869 757/0000/00
				x			2000		E11	03	6869 576/00	6869 576/00
				x		x	2000		G11	03	6433 262/00	6433 262/00

M01 M01b M45 Frequency Schedule

Compare with current logs

M01 Sunday

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

M01b Monday

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

M01 Tuesday/Thursday

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

M01b Thursday

M01b Thursday

M01b Friday

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

M01 Saturday

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

M45 Tuesday/Thursday

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

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

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

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Sun 1	1830	10843	1850	9243	---	828	
Mon 2	0430	6857	0450	7557	---	850	
	1300	13972	1320	13472	11472	944	89
	1600	12162^	1620	11566^	10711	546	73
	1700	9176^	1720	7931	6904	257	70
	1800	9176	1820	7931	6904	257	66
	1900	9176	1920	7931	6904	257	81
Tue 3	1830	10343	1850	9264	8116	124	55
Wed 4	1500	14492	1520	13392	11092	944	89
	1700	8047^	1720	6802	5788	463	41
	1830	10843	1850	9243	7843	828	195
	1830	11435	1850	10598	9327	938	52
	2100	9379	2120	7979	---	398	
	2110	14869	2130	13569	12179	851	167
Thu 5	0630	7984	0650	9184	---	911	
	1700	9176^	1720	7931	6904	257	79
	1700	10343	1720	9264	8116	124	80
	1800	10343	1820	9264	8116	124	72
	1900	9176	1920	7931	6904	257	53
Fri 6	1800	10343	1820	9264	8116	124	77
Sat 7	1310	13926^	1330	12126	---	919	

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Sun 8	1830	10843	1850	9243	7843	828	195
Mon 9	0430	6857	0450	7557	---	850	
	1300	13972	1320	13472	11472	944	103
	1600	12162	1620	11566^	10711	546	84
	1700	9176^	1720	7931	6904	257	72
	1800	9176	1820	7931	6904	257	69
	1900	9176	1920	7931	6904	257	46
Tue 10	1830	10343	1850	9264	8116	124	64
Wed 11	1500	14492	1520	13392	11092	944	103
	1700	8047	1720	6802	5788	463	92
	1830	10843	1850	9243	---	828	
	1830	11435	1850	10598	9327	938	70
	2100	9379	2120	7979	---	398	
	2110	14869	2130	13569	---	851	
Thu 12	0630	7984	0650	9184	---	911	
	1700	9176^	1720	NH	NH	257	??
	1700	10343^	1720	NH	8116^	124	??
	1800	10343^	1820	9264^	8116^	124	100
	1900	9176^	1920	7931	6904	257	60
Fri 13	1800	10343	1820	9264	8116	124	91
Sat 14	Not	Moni	-tored				

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

^ Weak reception NH Not Heard NF Not Found

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Sun 15	1830	10843	1850	9243	---	828	
Mon 16	0430	6857	0450	7557	---	850	
	1300	13972	1320	13472	11472	944	167
	1600	12162^	1620	11566^	10711^	546	80
	1700	9176^	1720	7931^	6904	257	79
	1800	9176^	1820	7931^	6904^	257	50
	1900	9176^	1920	7931^	6904	257	94
Tue 17	1830	10343^	1850	9264	8116	124	69
Wed 18	1500	14492	1520	13392	11092	944	167
	1700	8047	1720	6802	5788	463	56
	1830	10843	1850	9243	7843	828	163
	1830	11435	1850	10598	9327	938	51
	2100	9379	2120	7979	6879	398	119
	2110	14869	2130	13569	---	851	
Thu 19	0630	NH	0650	9184^	---	911	
	1700	9176^	1720	7931^	6904	257	60
	1700	10343	1720	9264^	8116	124	71
	1800	10343	1820	9264	8116	124	62
	1900	9176^	1920	7931	6904	257	54
Fri 20	1800	10343	1820	9264	8116	124	88
Sat 21	Not	Moni	-tored				

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Sun 22	1830	10843	1850	9243	7843	828	163
Mon 23	0430	6857	0450	7557	---	850	
	1300	13972	1327*	13472	11472	944	309
	1600	12162	1620	11566^	10711	546	95
	1700	9176^	1720	7931	6904	257	80
	1800	9176	1820	7931	6904	257	44
	1900	9176	1920	7931	6904	257	50
Tue 24	1830	10343	1850	9264	8116	124	53
Wed 25	1500	14492	1527*	13392	11092	944	309
	1700	8047^	1720	6802	5788	463	73
	1830	10843	1850	9243	7843	828	139
	1830	11435	1850	10598	9327	938	59
	2100	9379	2120	7979	---	398	
	2110	14869	2130	13569	---	851	
Thu 26	0630	7984^	0650	9184^	---	911	
	1700	9176^	1720	7931	6904	257	54
	1700	10343	1720	9264	8116	124	73
	1800	10343	1820	9264	8116	124	55
	1900	9176^	1920	7931	6904	257	51
Fri 27	1800	10343	1820	9264	8116	124	82
Sat 28	1310	13926	1330	12126	10926	919	87
	2110	14869	2130	13569	---	851	

Highlighted cell indicates new or changed loggings

--- Indicates no 3rd transmission sent as message 0 0 0

^ Weak reception NH Not Heard NF Not Found

* Times of transmissions offset due to length of message

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Wed 1	1500	13918	1520	12218	991	724	93
	1700	8047	1720	6802	463	6157	79
	1830	11435	1850	10598	938	702	69
	1830	13984	1850	12184	913	210	85
	2100	8123	2120	6923	198	0 0 0	
	2110	13369	2130	12179	314	0 0 0	
Thu 2	0630	7484^	0650	8184	402	0 0 0	
	1700	9176^	1720	7931	257	2951	47
	1700	10343	1720	9264	124	1047	77
	1800	10343	1820	9264	124	5137	92
	1900	9176	1920	7931	257	3357	65
Fri 3	1800	10343	1820	9264	124	2287	85
Sat 4	1310	14468^	1330	13568	451	0 0 0	
	2110	13369^	2130	12179	314	0 0 0	
Sun 5	1830	13984	1850	12184	913	210	85
Mon 6	0430	5792	0450	6992	796	0 0 0	
	1300	14964	1320	13972	991	154	185
	1600	12162	1620	11566	546	6225	81
	1700	9176^	1720	7931	257	9894	76
	1800	9176	1820	7931	257	3979	46
	1900	9176	1920	7931	257	1258	60
Tue 7	1830	10343	1850	9264	124	9488	70

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Wed 8	1500	13918	1520	12218	991	154	185
	1700	8047	1720	6802	463	9376	89
	1830	11435	1850	10598	938	2959	55
	1830	13984	1850	12184	913	269	157
	2100	8123	2120	6923	198	0 0 0	
	2110	13369	2130	12179	314	992	133
Thu 9	0630	7484	0650	8184	402	0 0 0	
	1700	9176	1720	7931	257	7161	66
	1700	10343	1720	9264	124	3738	72
	1800	10343	1820	9264	124	3782	75
	1900	9176	1920	7931	257	4829	50
Fri 10	1800	10343	1820	9264	124	5676	90
Sat 11	1310	14468^	1330	13568	451	0 0 0	
	2110	13369^	2130	12179	314	992	133
Sun 12	1830	13984	1850	12184	913	269	157
Mon 13	0430	5792	0450	6992	796	0 0 0	
	1300	14964	1320	13972	991	181	141
	1600	12162	1620	11566^	546	7972	3
	1700	9176^	1720	7931	257	1946	72
	1800	9176	1820	7931	257	7834	54
	1900	9176	1920	7931	257	3144	87
Tue 14	1830	10343	1850	9264	124	2041	58

Highlighted cell indicates new or changed loggings
- - - Indicates no 3rd transmission sent as message 0 0 0
^ Weak reception NH Not Heard NF Not Found

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Wed 15	1500	13918	1520	12218	991	181	141
	1700	8047	1720	6802	463	8535	49
	1830	11435	1850	10598	938	1730	68
	1830	13984	1850	12184	913	0 0 0	
	2100	8123	2120	6923	198	0 0 0	
	2110	13369	2130	12179	314	0 0 0	
Thu 16	0630	7484	0650	8184	402	0 0 0	
	1700	9176	1720	7931	257	1757	46
	1700	10343	1720	9264	124	2051	77
	1800	10343	1820	9264	124	9731	54
	1900	9176	1920	7931	257	8690	38
Fri 17	1800	10343	1820	9264	124	3168	88
Sat 18	1310	14468	1330	13568	451	0 0 0	
	2110	13369^	2130	12179	314	0 0 0	
Sun 19	1830	13984	1850	12184	913	0 0 0	
Mon 20	1300	14964	1320	13972	991	0 0 0	
	1600	12162	1620	11566	546	6678	80
	1700	9176^	1720	7931	257	3584	74
	1800	9176	1820	7931	257	5969	60
	1900	9176	1920	7931	257	4096	81
Tue 21	1830	10343	1850	9264	124	2433	57

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Wed 22	1500	13918	1520	12218		0 0 0	
	1700	8047	1720	6802	463	4358	74
	1830	11435	1850	10598	938	9047	64
	1830	13984	1850	12184	913	0 0 0	
	2100	8123	2120	6923	198	0 0 0	
	2110	13369	2130	12179	314	428	59
Thu 23	0630	7484^	0650	8184	402	0 0 0	
	1700	9176	1720	7931	257	3378	75
	1700	10343	1720	9264	124	3897	74
	1800	10343	1820	9264	124	3821	55
	1900	9176	1920	7931	257	7216	66
Fri 24	1800	10343	1820	9264	124	1677	84
Sat 25	1310	14468^	1330	13568	451	796	99
	2110	13369^	2130	12179	314	428	59
Sun 26	Not	Moni	-tored				
Mon 27	0430	5792	0450	6992	796	0 0 0	
	1300	14964	1320	13972	991	696	77
	1600	12162	1620	11566^	546	9074	86
	1700	9176	1720	7931	257	3616	77
	1800	9176	1820	7931	257	7056	63
	1900	9176	1920	7931	257	9714	48
Tue 28	1830	10343	1850	9264	124	1708	54

Highlighted cell indicates new or changed loggings
- - - Indicates no 3rd transmission sent as message 0 0 0
^ Weak reception NH Not Heard NF Not Found

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Cont...									
Sun 29 July	1830	10843	1850	9243	1910	7843	828	876	139
Mon 30 July	0430	6857	0450	7557	0510	---	850	0 0 0	
	1300	13972	1327*	13472	1354*	11472	944	724	93
	1600	12162	1620	11566	1640	10711	546	4749	87
	1700	9176^	1720	7931	1740	6904	257	3394	70
	1800	9176^	1820	7931	1840	6904	257	5350	58
	1900	9176	1920	7931	1940	6904	257	7777	81
Tue 31 July	1830	10343	1850	9264	1910	8116	124	316	76

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Cont...									
Wed 29 Aug	1500	13918	1520	12218	1540	10818	991	696	77
	1700	8047	1720	6802	1740	5788	463	1082	60
	1830	11435	1850	10598	1910	9327	938	4284	60
	1830	13984	1850	12184	1910	10384	913	453	219
	2100	8123	2120	6923	2140	---	198	0 0 0	
	2110	13369	2130	12179	2150	---	314	0 0 0	
Thu 30 Aug	0630	7484^	0650	8184	0710	---	402		
	1700	9176	1720	7931	1740	6904	257		
	1700	10343	1720	9264	1740	8116	124		
	1800	10343	1820	9264	1840	8116	124		
	1900	9176	1920	7931	1940	6904	257		
Fri 31 Aug	1800	10343	1820	9264	1840	8116	124		

Highlighted cell indicates new or changed loggings

--- Indicates no 3rd transmission sent as message 0 0 0

^ Weak reception NH Not Heard NF Not Found

Family 1A History and September predictions

28th August 2012

Station		2012	2012	2012	2012	ID	ID	ID	ID	
Day	time (utc)	June	July	August	September	June	July	Aug	Sept	week
G06 mon	08.00	6948	6948	6948	6774	215	215	215	215	every
G06 mon	17.00	5284	5284	5284	4639	154	154	154	154	1 & 2
G06 mon	18.00	4896	4896	4896	5378	154	154	154	154	1 & 2
S06 mon	19.00/05	7982/6984	7982/6984	7982/6984	5784/5127	349	349	349	349	every
S06 mon	18.15	15910	15mhz?	15805		832	376	260		2 & 4
S06 mon	19.15	13585	13505	13380		832	376	260		2 & 4
M14 tues	07.00	9085	9085	9085	8120	576	576	576	362	2
M14 tues	08.00	9395	9395	9395	7395	576	576	576	362	2
S06 tues	08.30		7043				427			3
M14 tues	18.20	6856	6856	6856	5947	163	163	163	346	2 & 4
M14 wed	19.20	5932	5938	5938	5463	417	417	417	537	2 & 4
E06 wed	19.20	5769	5769	5769	4615	154	154	154	154	2
E06 wed	20.20	4783	4783	4783	3704	154	154	154	154	2
E06 thur	05.00	14710	14580	13930	12210	328	679	210	354	every
E06 thur	06.00	16240	16090	15890	14830	328	679	210	354	every
S06 thur	08.30			16327		842	842	842	842	every
S06 thur	09.30			13875		842	842	842	842	every
G06 thur	18.30	6887	6887	6887	5934	842	842	842	579	2 & 4
S06 thur	19.00/05	7982/6984	7982/6984	7982/6984	5784/5127	349	349	349	349	every
E06 thur	20.30	5948	5948	5948	5186	724	724	724	891	1 & 3
M14 fri	18.00				8193	269	269	269	269	1st
G06 fri	19.30	5943	5943	5943	5442	218	218	218	947	2 & 4
E06 fri	21.30	5731	5731	5731	5197	315	315	315	634	1 & 3
S06 sat	16.00/05	8157/6983	8157/6983	8157/6983	8162/7612	134	134	134	134	every
S06 sat	19.00	11437	11438	11438	6942	314	314	314	314	1 & 3
S06 sat	19.00	7847	7847	7847	5317	416	416	416	416	1 & 3
S06 sat	19.30/35	7884/6783	7884/6783	7884/6783	6788/4958	843	843	843	843	every
S06 sat	20.00	6916	6916	6916	4492	416	416	416	416	1 & 3
S06 sat	20.00	9432	9432	9432	5923	314	314	314	314	every
E06 sun	11.20	8025	8025	8025	7471	154	154	154	154	Wed R
E06 sun	12.20	7482	7482	7482	6 mHz ?	154	154	154	154	Wed R

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

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

E07 Regular Schedules

Monday

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

Wednesday

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

Thursday

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

Saturday

	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
0800				12218	12177	13373	12173	12177				
0820				13418	13477	14373	13973	13477				
0840				14418	14877	15873	14873	14877				
0900		11053	11133									
0920		12153	12133									
0940		13553	13433									

Sunday

	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
1700				12123	13388	13468	13468	13388	12223	11454		
1720				10703	12088	12141	11454	12088	11062	9423		
1740				8123	10118	10436	10126	10504	10116	8123		
1800	6774	7697	9923								8183	6982
1820	5836	6863	9068								6982	5836
1840	4893	5938	7697								5938	4938

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

RED indicates E07a (usb mode) with serial number

Revised 21st August 2012

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Jul kHz, ID, ...	Aug kHz, ID, ...	Sep kHz, ID, ...	Oct kHz, ID, ...	General Remarks
x							0450		E11	03	10800 416/00	10800 416/00	6304 416/00	6304 416/00	since 02/10, last log 06/12
	x		x				0645		E11	03	13424 517/00	13424 517/00	10800 517/00	10800 517/00	since 07/09, last log 06/12
	x			x			0710		E11	03	14753 633/00	14753 633/00	10221 633/00	10221 633/00	since 02/11, last log 08/12
	x		x				0745		E11	03	15632 335/00	15632 335/00	14575 335/00	14575 335/00	since 10/11, last log 08/12
x			x				0820		E11	03	6280 438/00	6280 438/00	6814 438/00	6814 438/00	since 10/09, last log 08/12
x			x				0830		E11	03	12924 649/00	12924 649/00	10690 649/00	10690 649/00	since 01/10, last log 07/12
x		x					0900		E11	03	13427 534/00	13427 534/00	9399 534/00	9399 534/00	since 10/09, last log 08/12
	x			x			0915		S11A	03	8530 484/00	8530 484/00	7317 484/00	7317 484/00	since 01/10, last log 08/12
x			x				1015		S11A	03	16530 475/00	16530 475/00	16112 475/00	16112 475/00	since 04/10, last log 08/12
	x			x			1020		S11A	03	11581 426/00	11581 426/00	9960 426/00	9960 426/00	since 02/10, last log 08/12
		x			x		1020		S11A	03	5815 221/00	5815 221/00	5815 221/00	5815 221/00	since 01/09, last log 08/12
	x						1045		E11	03	16125 576/00	16125 576/00	13424 576/00	13424 576/00	since 01/12, last log 08/12
	x	x					1045		E11	03	9610 469/00	9610 469/00	7449 469/00	7449 469/00	since 03/10, last log 08/12
				x			1110		E11	03	16388 95#/00	16388 95#/00	13375 95#/00	13375 95#/00	since 12/11, last log 08/12
	x	x	x				1115		M03	03	7837 272/00 (Tue) & 650/00 (Wed/Thu)	7837 272/00 (Tue) & 650/00 (Wed/Thu)	9150 272/00 (Tue) & 650/00 (Wed/Thu)	9150 272/00 (Tue) & 650/00 (Wed/Thu)	since 10/09, last log 05/12
		x	x			x	1155		E11	03	16335 718/00	16335 718/00	15915 718/00	15915 718/00	since 04/11, last log 08/12
			x			x	1320		M03	03	7837 437/00	7837 437/00	9150 437/00	9150 437/00	since 02/11, last log 07/12
				x	x		1325		G11	03	5815 299/00	5815 299/00	5815 299/00	5815 299/00	since 03/10, last log 08/12
	x			x	x		1535		M03	03	6524 798/00	6524 798/00	6977 798/00	6977 798/00	since 11/10, last log 08/12
x						x	1540		E11	03	16335 228/00	16335 228/00	15915 228/00	15915 228/00	since 03/11, last log 08/12
				x			1710		E11	03	10487 95#/00	10487 95#/00	5194 95#/00	5194 95#/00	since 11/11, last log 07/12
			x				1730		E11	03	8088 416/00	8088 416/00	9371 416/00	9371 416/00	since 03/10, last log 08/12
	x					x	1755		G11	03	5815 270/00	5815 270/00	5815 270/00	5815 270/00	since 02/10, last log 08/12
	x						2000		E11C	03	8102 757/0000/00	8102 757/0000/00	6869 757/0000/00	6869 757/0000/00	since 12/11, last log 08/12
				x			2000		E11	03	9150 576/00	9150 576/00	6869 576/00	6869 576/00	since 03/12, last log 08/12
				x		x	2000		G11	03	3815 262/00	3815 262/00	6433 262/00	6433 262/00	since 01/11, last log 08/12

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Jul kHz, ID, ...	Aug kHz, ID, ...	Sep kHz, ID, ...	Oct kHz, ID, ...	General Remarks
x							0800		G06	01A	6948 215	6948 215	6774 215	6774 215	since 07/10, last log 08/12
x							1700	1/2	G06	01A	5284 154	5284 154	4639 154	4639 154	since 04/10, last log 08/12 yearly changing id
x							1800	1/2	G06	01A	4896 154	4896 154	5378 154	5378 154	since 05/09, last log 08/12 yearly changing id
		x					1830	2/4	G06	01A	6887 842	6887 842	5935 579	5935 579	since 05/01, last log 08/12
			x				1930	2/4	G06	01A	5943 218	5943 218	5442 947	5442 947	since 04/01, last log 08/12 rpt of Thu 1830Z

S06s schedule - amended - 29th August 2012

Day	time (utc)	jan feb nov dec	mar apr sep oct	may jun jul aug	ID	
Mon	07.00			8221	371	1 hour later Oct to March
	07.10			9353	371	
Mon	12.00	8420	9145	10230	831	
	12.10	10635	11460	12165	831	
Tues	06.00		14080	16735	438	
	06.10		12355	15230	438	
Tues	07.00	5250	5760	5430	374	
	07.15	6320	6930	6780	374	
Tues	08.00	10265 / ?	11635	14373	352	
	08.10	9135 / 12330	10420	12935	352	
Tues	10.00	6440	6410		893	
	10.10	5660	7340		893	
Tues	12.30	5810	4 mhz?	7650	278	
	12.40	6770	5805	6125	278	
Tues	15.00	5070	6464	6666	537	
	15.10	6337	7242	7744	537	
Weds	05.30	9435	10835/10285	11435	153	
	05.40	11075	12170/11405	12650	153	
Weds	07.30	7030	7120	7765	481	
	07.40	6305	6415	6815	481	
Weds	08.00			12110	745	1 hour later Oct to March
	08.10			14977	745	
Weds	08.20	6880	7605	6755	471	
	08.30	7840	9255	5835	471	
Weds	08.40	9260	9480	10120	328	
	08.50	11415	11040	9670	328	
Weds	10.00	12365	13365	14580	729	
	10.10	14280	14505	16020	729	
Weds	12.30	4580	7620	7545	967	
	12.40	6420	8105	8220	967	
Thurs E17z	08.00	11170	14260	16780	674	
	08.10	9820	12930	12850	674	
Thurs	09.00	12952	12952	12952	167	
	09.10	13565	13565	13565	167	
Thurs	09.30	7865	8650	9255	314	
	09.40	5310	7385	7630	314	
Thurs	12.00	12155	12415	12155	425	
	12.10	10920	14212	14535	425	
Thurs	14.00	5320 / 5410	5410	5320 ?	624	
	14.10	4845 / 6770	6770	4845 ?	624	
Fri	06.00	5460	6340	8720	934	
	06.10	7070	5470	10415	934	
Fri	06.00	7150	7795	7845	196	1 hour later Oct to March
	06.10	8215	8695	9125	196	
Fri	09.30	11780	12140	10290	516	
	09.40	12570	13515	9655	516	
Sat	12.00	8680	10350	12460	254	Only week 1
	12.10	8260	8520	10250	254	

Status of ID 418 and 872 are unknown

XPA Polytones

July 2012

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

1. 0440z: 9287kHz 2. 0500z: 10487kHz 3. 0520z: 11487kHz

ID244 Mode: USB [Tue/Thu]

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

03Tue NRH
05Thu NRH
10Tue NRH
12Thu NRH
17Tue NRH
19Thu NRH
24Tue NRH
26Thu NRH
31Tue NRH

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

1. 0600z 11409kHz 2. 0620z: 13509kHz 3. 0640z: 14609kHz

ID456 Mode: USB [Wed/Sat]

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

04Wed 456 000 09832 00001 00000 10140 [2m26s]
07Sat 456 000 05195 00001 00000 10140 [2m26s]
11Wed 456 000 05195 00001 00000 10140 [2m26s] BR
14Sat 456 000 05195 00001 00000 10140 [2m26s] BR
18Wed 456 000 07375 00001 00000 10140 [2m26s]
21Sat 456 000 07375 00001 00000 10140 [2m26s]
25Wed 456 000 07376 00001 00000 10140 [2m26s]
28Sat 456 000 07376 00001 00000 10140 [2m26s]

XPA b Morning 0440z Schedule

NRH since 12th June, 2012

XPA c Morning 0600z Schedule

Strong at start of schedule, remaining so throughout life of schedule.

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

1. 1730z 10943kHz 2. 1750z: 10243kHz 3. 1810z: 9243kHz

ID922 Mode: USB [Tue/Thu]

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

03Tue 922 000 [2m26s]
05Thu 922 000 06532 00001 00000 10140 [2m26s]
10Tue 922 1 00679 00267 78232 32486 BR
12Thu 922 1 00679 00267 78232 32486 BR
17Tue Too weak for process
19Thu 922 000 02056 00001 00000 10140 [2m26s]
24Tue 922 1 00663 00191 68691 56062 [4m25s]
26Thu 922 1 00663 00191 68691 56062 [4m25s]
31Tue 922 000 08642 00001 00000 10140 [2m26s]

XPA e Evening 1730z schedule

Matching strengths of 2011, this schedule weak and noisy to start.
Towards end of month strengths lifted slightly with odd strong transmissions

August 2011

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

1. 0440z: 8034kHz 2. 0500z: 9234kHz 3. 0520z: 10834kHz

ID828 Mode: USB [Tue/Thu]

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

02Thu NRH

07Tue NRH

09Thu NRH

14Tue NRH

16Thu NRH

21Tue NRH

23Thu NRH

28Tue NRH

30Thu NRH

XPA b Morning 0440z Schedule

NRH since 12th June, 2012

Considered closed, this schedule will no longer appear in E2k papers.

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

1. 0600z 10868kHz 2. 0620z: 12168kHz 3. 0640z: 13368kHz

ID813 Mode: USB [Wed/Sat]

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

01Wed Not found

04Sat 813 1 00669 00147 46601 12147 [3m57s] BR

08Wed 813 1 00569 00083 81255 15564 [3m16s]

11Sat 813 1 00569 00083 81255 15564 [3m16s]

15Wed NRH

18Sat 813 000 01214 00001 00000 10140 [2m26s]

22Wed 813 1 00807 00181 59439 41050 [4m16s]

25Sat 813 1 00807 00181 59439 41050 [4m16s]

29Wed 813 1 00989 00315 13788 22066 [5m39s]

XPA c Morning 0600z Schedule

Fair to strong signals to start.

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

1. 1730z 12187kHz 2. 1750z: 10787kHz 3. 1810z: 9387kHz

ID173 Mode: USB [Tue/Thu]

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

02Thu Too weak for process

07Tue 173 1 00588 00225 40675 11555 [4m45s]

09Thu 173 1 00588 00225 40675 11555 [4m45s]

14Tue 173 000 08624 00001 00000 10140 [2m26s]

16Thu 173 000 07543 00001 00000 10140 [2m26s]

21Tue 173 000 07544 00001 00000 10140 [2m26s]

23Thu 173 000 07544 00001 00000 10140 [2m26s]

28Tue 173 1 00644 00179 05452 72360 [4m17s]

30Thu 173 1 00644 00179 05452 72360 [4m17s]

XPA e Evening 1730z schedule

Changeable signals across this schedule; usually all useable.

SPECIAL MATTERS:

Operation Jallaa: 0

MESSAGES:

E: Thanks for our input from your hols!

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>



2012

Source: Virtues42.com

January

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

February

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

March

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

April

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

May

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

June

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

July

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

August

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

September

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

October

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

November

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

December

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