ENIGMA 2000 NEWSLETTER

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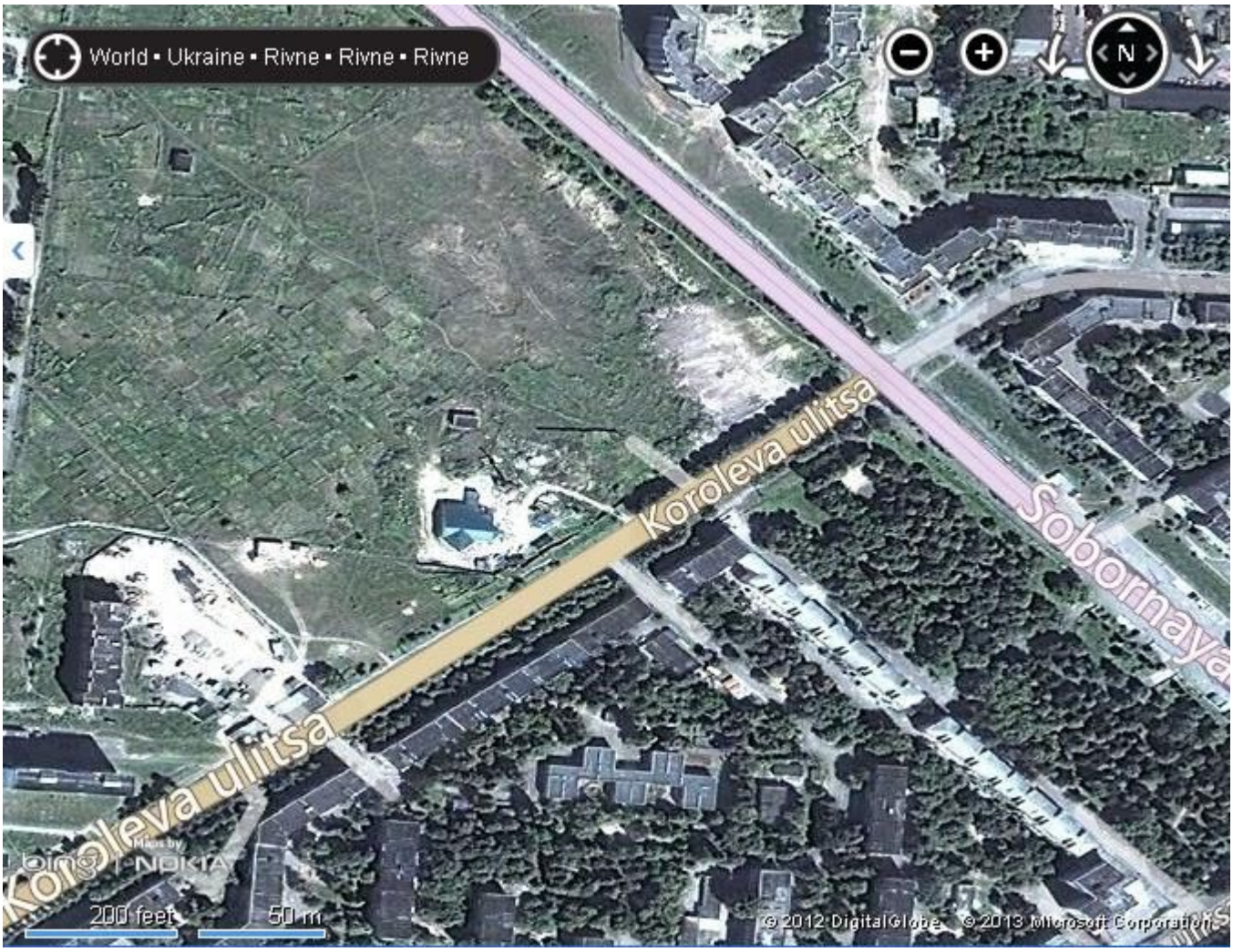

S06s
Further Info
The case of the disappearing building

ISSUE 77
July 2013

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See last page also.

S06s location; further info

Last time we asked 'Is the transmission site Rivne' :

Whilst we can perhaps prove the country of origin as central Ukraine we cannot prove Rivne without reasonable doubt. Our informant [X] stated he was told "…. the info regarding the SZRU and the location of the transmission being from Rivne Ukraine, apparently a TX site used by the military. X indicated to me later that the info regarding the actual location of this transmission was obtained from a `special connection' and not from the usual source of censored their equivalent to censored. Presumably the info regarding the SZRU came from the same source."

So there we have it. Ukraine, Yes, Rivne, perhaps. SZRU? Would they be big enough to warrant the sort of output and cost for a large S06 type operation? Probably not. In fields nearby it has been noted a massive amount of electrical pylons and local distribution style poles.

Is Ukraine sending on behalf of the SVR/FSB, whatever? It's possible; look what the UK has on its shores for the US, Field Station F83 for starters and who really knows what they get upto in there?

Shortly after I received an interesting piece of further detective work that suggests we've scored a direct hit on the country, but not the actual transmitting station.

This came in the shape of two emails, both senders wishing to remain Anon

The first email reads:

I don't think the pictures on the Intelligence web site is the picture on Google maps. I had a search around and found the location of the Building with a large antenna nearby. I also searched Bing maps too, and surprisingly the building isn't on the map. It looks like Bing maps are much older than Google maps, most often these maps are always out of date by several years. But what it does suggest is the building in the picture was build very recently over the last 5 or so years. After a bit more searching around, there are many pictures around the city of Rivne on the internet, and one location which has been photographed many times is The Gateway Of Rivne.
Which is situated on a rounder-bout just north of the building . In one of the pictures which shows the monument, to the left of the picture I can see an antenna in the background. However a closer inspection on Google maps show it is not the antenna related to the building, as there is a smaller antenna located west, just behind a nearby building which is close to the monument. After trawling through the pictures of old tower blocks and Lada cars in the snow nearby the area,
I realize that no body has took a photograph of the splendid building with the large antenna, but they took pictures of everything else which was not interesting.

The writer of this email ha d a course on satellite image analysis and writes:

From what I can work out, this building structure is a building site, and has been for a while. The yellow object is a crane, much like this:
http://www.alibaba.com/product-free/217133922/Flat_Top_Tower_Crane_It30f/showimage.html

You can see the shadow from the counter weights and cab. If the structure was a vertical antenna, the shadow would be shorter, as the other ones are. The shadow shows it is horizontal to the ground
I'd also say there is no roof to any part of the building. If you look at other tall structures you can see they are roofed, none have terraces (or sundecks if you like). You're looking down into rooms with a central corridor

The worn out path to the NW of the buildings shows that there's been a lot of movement in that area, round to the back where there are some skips or such like. There are also skips behind the buildings by the "entrance" of the grounds that are not in the other image I have. Another path/road leads around the SE of the building, also to the skip area. Probably used by trucks dropping of the skips. I also think there's a smaller skip or lifter (also yellow in colour) attached to the building, hanging over the skips (maybe they're pallets??)

The "quarry" area to the NW of the grounds would probably have been dug out for foundations, though as there's no recent activity (the grass has started to grow back) I'd say this was done quite some time ago. You can clearly see it's sloped down into the area

The one thing going for it to be of possible special importance is the wall that surrounds the grounds. Going from the shadow (which is hard as there's no time stamp) I'd say the wall was about 2 metres tall. But then again, the mosque/church to the SW (also under construction I'd say) has approx. the same height of wall

The power grid pylon layout and quantity is about right for this size of town, especially with a railway station that size and nearby location. It is also pretty much as standard in layout to ex Soviet grid systems

Ref the crane, I forgot to mention that in the other sat image it is not there. As I think this image is older, this shows that the crane/mast has gone up prior to the google image. If your other email says the building has now gone I'd say then that the crane is there to assist with its demolition

I can see what you're saying that it could be a mast but I was taught that if it was a vertical, same diameter structure all the way up, then to look for guys. I can't see any in the google image (although it is low res). The other thing to look for if there are no guys is a solid concrete base, again I can't see that here.

If you compare this image from Daventry of a vertical mast taken from an overhead you'll see that it is in quite a considerable concrete base for about a 50m tall mast. http://goo.gl/maps/Dve4h

The Rivne mast is huge if it's a mast, and would need considerable support. Also, look at the angle difference. From directly overhead the Daventry mast is small from the angle and runs in comparison to the buildings, yet the Rivne one has a completely different angle to the buildings. Again, this shows me it is flat and horizontal to the ground

A later email from the first source followed up with:

It certainly has put a different angle on things. I had a look at the pictures again I have of the building, and it is quite possible it is a building site with a crane in the centre. So the individual who contacted you was probably right. I am not so certain about the roofs as some roof tops will have a wall surrounding the building which can cast a shadow to give the impression there is no roof present. There is one thing I can confirm the surrounding area of the building does look like dried mud rather than tarmac or concrete.

So, whilst the bearing bisects Ukraine, Rivne may be a bit of a red herring – any ideas?

Thanks to the two Anons and their input.

Now read on for an opinion on this site and other clues for a transmission site:
First of all, I'm not a professional Sat Image analyst although I've had some basic training in the past
Secondly, I may be wrong with this analysis
Thirdly, this is just an opinion

So' I'll start with the original image from Google maps as provided in the newsletter. Although I've provided an edited image (Rivne_001.jpg), it's probably better to go to Google maps yourself so that you can zoom in a bit better. The link to the area of concern is here:
http://goo.gl/maps/gp6G4

When I first saw the image I immediately knew that the yellow object which was thought to be an antenna, was in fact a crane.

The most obvious thing is the shadow and the angle of the object. Firstly, if you look at the buildings you can see the northern side of them and they are angled (or pointing) to the 4 o'clock position of a watch. If the object was an antenna you'd hardly be able to see any of it and it would be angled in the same direction as the buildings - in other words it would be pointing at about the 4 o'clock position where as this is pointing almost at 12 o'clock. What this tells us, along with the shadow, is that the object is horizontal to the ground

If you look closely at the shadow of the object you can see it looks like it is L shaped. The bottom part of the L is actually the upright of the crane. Where the long side of the L joins the bottom part, it is considerably thicker. I'd say this is the shadow of the counter-balance weights of the crane. Directly above the weights shadow you can see what I think is the "cab" shadow, it even possibly has a slightly lighter shadow where light is passing through the glass. The shadow is distorted by the building which could mean that this isn't the cab however and just a continuation of the crane. If you look carefully you can see the crane extends behind the upright a little, as would be expected

So, my analysis of this site is that it is a new building, probably a block of flats or such like. Looking across the road you will see similar structures.

There are various other things that point to this. There's lots of skips and containers, there's another smaller crane at the northern part of the building, the track marks show that there's been heavy machinery moving around the building

At first I thought the area to the NW of the building that's been dug out was a possible quarry, but then I realized it was exactly the same shape as this building and was dug out foundations for another matching building

I've provided another Sat image I've been able to find of the same spot (Rivne_002.jpg). As you can see the crane is missing as are a few containers here and there. Whether this is before or after the Google image is hard to tell, although I'd say it was before looking at the works of the blue roofed building to the south - the car park is completed for instance in the Google picture

To give an example of how an antenna would look from the same sort of angle from above, here's a link to one at Daventry: http://goo.gl/maps/Dve4h
As you can see, although the shadow is still long, the antenna itself is quite short (or appears to be) and angles away from the shadow as opposed to running parallel with it. If you look at the buildings, they are roughly the same angle from above as the ones here at Rivne

So, the next big question is, where is the possible site of S06s. I had to start with obvious things, and the most obvious place was the airfield - http://goo.gl/maps/M4Yj9.
It doesn't actually reveal that much except for some AN-12 aircraft in disrepair and some AN-26s or AN-32s on the other apron. There are two "golf ball" structures but these look like radars to me. I could not see any antennas

A quick look around the airfield boundaries brought me to a storage area for military vehicles, mostly trucks
http://goo.gl/maps/KdLcL

Following the road back towards Rivne from this storage area I noticed this site which was definitely Military:
http://goo.gl/maps/fKcM7
Zooming in quite clearly revealed radars and satellite dishes. I've provided a close up image pointing a few things out (Rivne_003.jpg). The structures are on mounds which could also possibly double up as bunkers. There's definitely a main bunker entrance

To the NW of the site there's a track that leads to what I called "Site 2" - http://goo.gl/maps/8pcI7
I ignored this at first as just a dumping ground, but then I noticed that one of the vehicles had a feather like shadow coming from it. image Rivne_004.jpg shows this. Whether this is just a trick of the land I don't know but it does appear to be radar like, and quite a big one. The Russians do have many mobile early warning radars and this could be a dumped one. I don't think its operational

I went to the mentioned electrical pylon site on the outskirts of Rivne but this is a standard big Russian town grid network that distributes to the local area. There is a huge PowerStation complex to the NW of the town at Karajevychi which will probably feed this. A lot of Russian electricity is run underground due to the below freezing temperatures they get (quite often down to minus 20 in the winter in this area)

To the north of town I discovered this area: http://goo.gl/maps/SSjVu
This reminded me of a Russian Army vehicle/Tank depot I'd seen before. But obviously this was overgrown and out of service. The one I'd seen before had a wide road around the outside with buildings and parking areas for hundreds of vehicles and tanks etc. When activated the vehicles would regroup on the wide road before heading off. This would point to a Garrison town being in the vicinity, which I guessed at being Rivne, but as this was obsolete I didn't go back into town and continued my search on the outskirts

And then I found this. To the NW of the PowerStation
http://goo.gl/maps/xBwQJ
A huge Tank and vehicle storage complex, much like the derelict one above, just a lot bigger
I haven't had time to analyze the whole complex yet but there are clearly Tanks, APVs, trucks, tank carriers, self-propelled guns, artillery, missile carriers etc. The buildings they're in amongst are workshops and there's a small amount of office and accommodation to the east. But, there's no antennas as such, a few pylons, but nowhere near enough accommodation to activate this amount of vehicles

So, it had to be back in town. And it had to be a huge garrison

Now, the Russians like to mark things out when it comes to their military. Their parade squares normally have white lines on them, in grids and such like, so that they can get everything neat and tidy. These do stand out quite easily. And sure enough, once I knew what I was looking for, the base stood out like a sore thumb in the middle of the town:
http://goo.gl/maps/01meZ
I still don't know how I missed it before. The base is split into two, with the H22 road running between it. There's plenty of accommodation and a few parade squares with the markings as you'll see.

If you recall from the previous article, it was mentioned that the TX site was used by the military. This size of garrison and probable importance with the vehicle storage area down the road, must have it's own TX/RX site and I was immediately drawn to the eastern side of the road by the parade square where there is clearly an antenna or pole
http://goo.gl/maps/JJtwm
Though this didn't feel right to me as I wondered if it was part of the assault course next to it to the east. So I kept looking. And over on the western side of the base the H block stood out very clearly to me as a HQ building, and there, in-between the buildings were two antennas

http://goo.gl/maps/s7itl

Google Map image, included for those witout PC access.

So, is this the site of S06s?? I don't know but I feel that this is more likely than the original theory. There's nothing else that stands out in the surrounding area that I can find - at the moment

I shall continue to look at the area, and in particular I will try to identify the vehicles at the main storage depot

I hope you've enjoyed reading this as much as I have done in its writing and investigation

Cheers [Thanks MaleAnon].

Morse Station Roundup.

M01 The regular M01 scheds, believed to be used as a training net, is continually coming up with new methods of trying to confuse the recipients, (& those of us ear wigging on the side), speaking from a personal point of view, often succeeding!

Latest methods recently aired have included sending the pause after the FORTH figure of a 5 fig grp, then adding the final figure onto the front of the next group (e.g. Instead of sending 12345 12345 67890 67890 it sends 1234 51234 56789 06789 0 . . . . etc), also sending the groups as a continuous stream of CW figures, without any pauses.

We have a good selection of M01b logs again this time as conditions continue to improve & Jean Paul (JPL) has again managed to catch some excellent examples of the rarer M01 variants.

M08a A greatly reduced schedule, but still sending a few transmissions in CW. Steve from USA logged a transmission on 10 June on a sched where HM01 was expected, as did MaleAnon who in addition has supplied a summary and a great set of logs.

M12 May started badly with lots of missing scheds. Of the expected 22 scheds, 12 were missing. Then just as suddenly - from Mon 13 May, all the missing scheds returned.

Quite why M12 has started this practice of dropping scheds for a week or two at New Year holidays, and now Mayday holiday is a matter of speculation. They are also continuing to experience some technical issues with some transmissions that indicate either operator incompetence or equipment problems. This usually faultless station has suffered some transmission errors of late, including call-up restarts, clipped IDs & even duplicated grps on one transmission.

On Wed 05 June the 2100z sched, ID 903 came to life with a 97 group message. This ID has been monitored regularly since 2008 & this is the first time a message has been sent. We hope it was good news & not a redundancy notice.

M23 Richard (RNGB) logged activity last at the end of March, but the station has since failed to appear, although the hourly 'dash', indicating an active frequency has been heard daily. What is the purpose of these 'marker' transmissions?

M45 Both JkC & tiNG tuned into 4974kHz on Tue 21 May expecting to hear the scheduled S21 transmission. Instead M45 started up on 4974//5373kHz using the 973 ID & started sending the 381 32 message. After 17 groups, probably having realised their error the message stopped leaving only the carrier, which was silenced one minute later. More proof, if any was needed, of the connection between these two stations.

M89 Jean-Paul (JPL) continues to provide some excellent monitoring of this network & had bumper days on Fri 17 May & Mon 20 May with a large amount of traffic & chat activity noted on a very wide range of freqs.

M97 A very quiet period from this irregular station. Only one sending in May & one other in June. Both sendings were of the SD81 msg that was first aired on 10 April.

Beacons To complete the Morse section we have another selection of beacon logs.

Voice Stations Round up

E06 The Thurs/Fri 2030/2130z schedules appeared as expected and with the usual distortion. Apparently caused by deliberate aberrations within the form of the spoken character.
The Friday 0500z schedule has been intercepted by Fox in both months; sadly its 0600z repeat yet to be copied.

E07 Usual activities across the entire schedules with a move to polytones on at least two occasions for the 0700/20/40z Tuesday, Friday schedule.

E07a Splendid signals heard both months for the Wednesday/Thursday schedules; three messages in May and two in June sent, the latter having 96 groups.
The Friday/Saturday schedule also sporting a message in May and one message on Saturday

E11/E11a Usual mixture of null transmissions and valid messages.

E17z Run of messages reported on both frequencies for May; sadly only the 0800z offering reported for June.

E25 Logs from Douglas and Manolis; strangely used elsewhere before we have used them ourselves.

G06 Apparently active across both months with excellent logs across all schedules

G11 As E11

S06 Much activity across the months as one would expect with this station.

S11a As E11

S21 Usual variable logs of this parallel sending station

V02a One log surprise; either a mistake or just an intended one off.

V07 Some nice logs from our own soil and from the Argentine; thank you gentlemen, exceedingly well done.

V21 Excellent report of AnonUS over the May showing of this station.

Polytones

XPA c and XPA e Schedules firm, good useable signals for 'c' but the expected poor propagation for 'e' unless you are located where FR is. In that case expect strong signals.

XPA2m Usual strong signals

XPA2r Again, some splendid signals.

XPA2 unscheduled Very strong signals from this polytone discovered by PLdn in June, Sends on Tuesday/Thursday at 0700z at the time of writing.

The XPA2 polytones that remain elusive are:

XPA2 p Last heard 0800/20/40z Monday/Wednesday March 2013

XPA2 Last heard 1500/20/40z Sunday/Friday May 2013

XPA2 Last heard 0700/20/40z Tuesday/Friday June2013 and which seems to manifest itself as E07 too. Difficult to intercept due to high frequencies used.

German Report

Report from the X06 team

Hello dear friends and colleagues of the X06 team

From the beginning you can see, that we have no news from E2Kde today, but more from the X06 team:

X06 Mazielka (1C) logs section

Date	Day	UTC	Freq	Scale	Monitor	Comments
20130501	Wed	1612-1615	14763	1--6--	Linkz/FR	X06b (carrier till 1618)
20130501	Wed	1620-1622	14763	1--6--	Linkz	X06b comeback (then carrier off)
20130506	Mon	0653-0657	10161	165324	Alexinroma, Peter/UK, Spectre/UK	Strong, QRN2, QSB2, M607
20130506	Mon	0832-0833	12152	432516	Hans/NO	Weak/fair (i. p.), M608
20130506	Mon	1533-1538	11438	532614	Peter	Good, M609
20130506	Mon	1830	14812	1-----	Tillmann	Single tone variant (very short)
20130507	Tue	0805-0807	11462	165423	Peter	S9+10, M610
20130507	Tue	0902-0915	13401	154263	Kopf, Peter	Strong, M611
20130508	Wed	0853-0901	13985	134265	Alex, Peter	Alert 2.1 (S9+10 IT), M612
20130508	Wed	0901	16116	134265	Alex, Peter	2.2 Shortie (S9 IT, S1 UK), M613
20130508	Wed	1454-1456	16276	314265	Peter	Good, G
20130508	Wed	1517-1521	14650	215346	Peter	Fair, G
20130513	Mon	0656-0702	16117	215346	Peter	Alert 1.1 S1 under strong QRM, R
20130513	Mon	0721-0744	16117	215346	Peter	1.2 S1, R
20130513	Mon	0933-0938	16117	463125	Peter	Fair, M614 (CROWD36 at 0940)

Date	Day	UTC	Freq	Scale	Monitor	Comments
20130514	Tue	0800-0807	11545	534216	Alex, Peter	Alert 2.1 Weak UK, fair IT, M615
20130514	Tue	0807-0809	13420	534216	Alex, Peter	2.2 Strong UK, fair IT, M616
20130515	Wed	0840-0852	16115	215346	Alex	Good, M617
20130516	Thu	0712-0719	16277	436512	Alex, Kopf	Good IT, weak DE, G
20130517	Fri	0646-0654	16320	241563	Alex	Good, M618
20130520	Mon	1535-1538	14392	532614	Peter	Fair, M619 (CROWD36 at 1540-1541)
20130520	Mon	1657-1705	15677	231654	DanielE2Kde	Good to weak, new freq, R
20130521	Tue	0715-0716	12200	123456	Peter	Weak X06c
20130521	Tue	0720	12200	123456	Peter	Weak X06c again (only single burst)
20130521	Tue	0724	12200	123456	Peter	Weak X06c (again only single burst)
20130521	Tue	0729	12200	123456	Peter	Weak X06c (single burst - 3rd time)
20130521	Tue	0743-0744	12100	123456	Peter	Fair X06c
20130521	Tue	0825-0828	11462	165423	Peter	Poor, M620
20130521	Tue	0842-0844	15687	154263	Peter	Poor/fair, M621
20130522	Wed	0758-0759	13419	465132	Alex, Peter	Good in UK, M622
20130522	Wed	1752-1802	14970	216354	Peter	Fair, G
20130523	Thu	0752-0755	12126	521634	Peter	Good, M623
20130523	Thu	0807-0816	16153	153624	Peter	Fair to poor, M624
20130523	Thu	0940-0944	11411	164532	Peter	Good, M625
20130524	Fri	0745-0749	10653	356412	Peter	Good, M626
20130524	Fri	0904	12100	121212	Peter	X06a shortie (single burst)
20130524	Fri	0907	12100	121212	Peter	X06a shortie (singleburst – rpt)
20130524	Fri	0957-1003	19611	256134	Peter	Alert 2.1 Fair, M627
20130524	Fri	1000-1033	18321	156234	Peter	Good, M628
20130524	Fri	1015-1025	20605	256134	Peter	2.2 S9, M629
20130527	Mon	0804-0915	16190	123456	RNGB	X06c
20130527	Mon	0935-0938	10372	431625	Peter	Good, M630 (CROWD36 after 9 mins)
20130527	Mon	1012-1016	16117	463125	Peter	Good, M631
20130527	Mon	1429-1436	14970	216354	Peter	Weak, G
20130528	Tue	0832-0834	16257	542136	Peter	Alert 1 (both good) 1 M632
20130528	Tue	0835-0836	16257	542136	Peter	1.2 M633
20130528	Tue	1002-1010	14675	612534	Peter	Good, M634
20130529	Wed	1052-1101	14944	621543	Peter	Alert 2.1 Good, M635
20130529	Wed	1112-1120	12167	621543	Peter	2.2 Weak, M636
20130601	Sat	1212-1222	16115	215346	Peter	S1, G
20130604	Tue	0912-1145	14812	246531	Peter	Fair and VERY long, M637
20130606	Thu	1920-1929	9386	314265	Jim/US	R
20130607	Fri	0848-0856	16219	324615	Peter	Fair/good, M638
20130607	Fri	0956-0958	14501	361245	Peter	Strong, M639
20130610	Mon	0809-0812	11537	421635	Peter	Good, M640
20130610	Mon	0941-0945	10372	431625	Peter	Fair/good, M641
20130610	Mon	0946-0951	16117	463125	Peter	Strong, M642 (C36, 0953-0957)
20130611	Tue	0755-0758	13420	534216	Peter	Good, M643
20130611	Tue	1033-1042	13510	612534	Peter	Weak/fair, M644
20130613	Thu	0739-0742	9388	561243	Peter	Fair, M645
20130613	Thu	0938-0940	13506	164532	Peter	Strong, M646
20130613	Thu	1503-1507	13875	414265	Gary/UK	Unusual X06b, very poor, strong QSB
20130613	Thu	1525-1530	10535	564213	Peter	Good, M647
20130614	Fri	0745-0754	10653	356412	Peter	Good, M648
20130614	Fri	0953-0958	19611	256134	Peter	S9+10, M649
20130614	Fri	0959-1002	14863	615243	Peter	Good, M650
20130614	Fri	1920-1924	9352	216354	Fritz/CH	I. p., R
20130617	Mon	1133-1207	16117	463125	Peter	Fair varying to very good, M651
20130617	Mon	1636-1640	12199	532614	Peter	Good, M651
20130618	Tue	0804-0806	11462	165423	Peter	Good, M652
20130618	Tue	0823-0825	16117	463125	Kopf	Good, R
20130618	Tue	0831-0835	15687	154263	Peter	Good, M653
20130618	Tue	0914-0918	12152	432516	Kopf	Fair, R
20130619	Wed	0830-0832	13465	362154	Peter	Good, M654
20130620	Thu	0641-0646	17468	436512	Peter	Good and clean, M655
20130624	Mon	0811-0813	11537	421635	Peter	Fair/good, M656
20130625	Tue	0800-0814	13420	534216	Peter	Fair/poor, M657
20130625	Tue	1008-1015	13510	612534	Peter	Alert 1.1 Weak, M658
20130625	Tue	1040	13510	123456	Peter	X06c, single burst, good
20130625	Tue	1041-1046	13510	612534	Peter	1.2 Fair/good, M659
20130626	Wed	0656-0703	16115	215346	Peter	Alert 1.1 Good, new schedule, G
20130626	Wed	0716-0721	16115	215346	Peter	2.2 New schedule, fair, G
20130626	Wed	0752-0755	11153	465132	Peter	Fair, M660
20130627	Thu	0746-0748	14419	521634	Peter	Fair, M661
20130627	Thu	0812-0815	16153	153624	Peter	Good, M662
20130628	Fri	0956	14863	615243	Peter	Shortie, S9, M663

On May 31st, Peter reported 2 transmissions: at 0959 UTC (scale: 216354) and at 1408 (scale: 134265). He has no freqs for both catches, cause they were part of a frequency set containing 248 different ones, which he ran with his radio and recorder as he was off his QTH. But these are 2 interesting activities on a 5th Friday. On June 17th I found a transmission between 0745 and 0746 UTC with scale "641523" in the 18 mHz range (too short to find out the exact freq).

Nice stuff again. Thanks to all the contributors. Till EN78 I say good-bye

Jochen Schäfer, the X06 Teamkopf

Morse Stations

All frequencies listed in kHz. Freqs are generally +- 1k
This is a representative sample of the logs received, giving an indication of station behaviour and the range of times/freqs heard. These need to be read in conjunction with any other articles/charts/comments appended to this issue.

UNID CW

5768	1908 - 1919z	06 Jun	CW M01?	(In tfc)	999	(Silent - 1908z)	(Remote Tuner Eastern Siberia)	JPL	THU

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

May 2013:

4905	2000z	02 May	'025' 813 30 = =	08985..	...LG 43366 = =	(2009z) Fair	DanE2k/HFD/JkC	THU
	2000z	07 May	'025' 347 30 = =	06030...	...LG 32457 = =	(2010z) Weak / Fair. With errors	DanE2k/BR/JkC	TUE
	2000z	09 May	'025' 159 30 = =	48702...	...LG 18990	Strong, V.fast. No starting DK or GC	DanE2k/BR/JkC	THU
	2000z	14 May	'025' 391 30 = =	16460...	...LG 97077 = =	(2011z)	tiNG	TUE
	2000z	16 May	'025' 137 30 = =	99797...	...LG 08504 = =	Strong, V.fast. Start DK GC sent as 247 40	BR	THU
	2000z	21 May	'025' 229 30 = =	22709...	...LG 91771	Strong, fast. Numerous errors. Only 28 grps	BR	TUE
	2000z	23 May	'025' 241 30 = =	57980 ...	...LG 00103 = =	Fair, fast. Numerous errors.	BR/JkC	THU
	2000z	28 May	'025' 157 30 = =	88042...	...LG 28045 = =	Good, fast. Grp27 58016 38016.	BR	TUE
	2000z	30 May	'025' 913 30 = =	84496 ...	...LG 90009 = =	Good, fast. Numerous errors	BR/JkC	THU
5280	1800z	02 May	'025' 510 30 = =	05324...	...LG 36663 = =	Good, fast. Excellent paced CW . No errors	BR/HFD/JkC	THU
	1800z	07 May	'025' 705 30 = =	26853...	...LG 30252 = =	Weak. Grp25 9032 90223. Grp30 sent once	BR	TUE
	1800z	09 May	'025'	Very weak - No useful copy			BR	THU
	1800z	14 May	'025' 227 30 = =	46597 ...	...LG 83160 = =	Fair	GD/JkC	TUE
	1800z	16 May	'025' 272 30 = =	9063(7?)	...Unreadable	(1807z) Strong	JkC	THU
	1800z	21 May	'025' 194 30 = =	72483...	...LG 81005 = =	Good, fast. With errors. Only 29 grps sent	BR/JkC	TUE
	1800z	23 May	'025'		... Unreadable except to confirm msg was present	(1808z)	JkC	THU
	1800z	28 May	'025' 271 30 = =	62740 ...	...LG 96320 = =	Fair. Errors Grps15,17,20. Only 29 grps	BR/JkC	TUE
	1800z	30 May	'025' 248 30 = =	01954...	...LG 70196 = =	Good, fast. Numerous errors. Only 29 grps	BR	THU
6435	1500z	04 May	'025' 715 30 = =	26058...	...LG 01214 = =	Fair, fast / v.fast, Only 29 grps sent?	BR	SAT
	1500z	11 May	'025' 081 30 = =	11821...	...LG 80957 = =	Fair, fast. Numerous errors	BR/HFD	SAT
	1500z	18 May	'025' 510 30 = =	52771...	...LG 53220 = =	(1510z)	tiNG	SAT
	1500z	25 May	'025' 345 30 = =	06657...	...LG 73902 = =	Weak, fast. With errors	BR	SAT
6780	0700z	05 May	'025' 067 30 = =	41998...	...LG 21728 = =	Strong, fast. Problems mid-msg, ended well	HFD/RNGB	SUN
	0700z	12 May	'025 712 30 = =	78 .97...	...LG . . . . . = =	Fair, fast. Severe QRM from XJT signal	BR	SUN
	0700z	19 May	'025' 486 30 = =	01504...	...LG 82062 = =	Good, fast. Numerous errors	BR	SUN
	0700z	26 May	'025' 174 30 = =	09504 ...	...LG 36121 = =	Fair, med-fast. Excellent CW. No errors	BR	SUN

June2013:

4905	2000z	04 Jun	'025' 381 30 = =	90389...	...LG 75834 = =	Fast. Numerous errors	ATC/BR/JkC	TUE
	1800z	06 Jun	'025' 927 30	. . . .	...LG 57016	Weak, fast. NOTE: Wrong freq used	BR	THU
	2003z	06 Jun	'025' 927 30	66679...	...LG 08957	Good, fast. Disjointed & confusing	BR/JkC	THU
	2000z	11 Jun	'025' 973 30 10 10	71510...	...LG 06784 = =	Strong, med-fast. No pauses, multiple errors	BR	TUE
	2000z	13 Jun	'025' 163 30 = =	30456...	...LG 31458 = =	Strong, med-fast. Irregular with errors	BR	THU
	2000z	18 Jun	'025' 174 30 = =	22321...	...LG 40214 = =	Strong, med-fast. With errors. CW - no tones	BR/CB/JkC	TUE
	2000z	20 Jun	'025' 347 30 = =	10044...	...LG 22519	Strong, slow. Three grps sent once only	BR/CB	THU
	2000z	25 Jun	'025' 088 30 = =	09504...	...LG 36121 = =	Good, fast. Multiple errors	BR/tiNG	TUE
5280	1800z	04 Jun	'025'	Very weak - No useful copy		(1810z)	BR/JkC	TUE
	1800z	11 Jun	'025' 426 30 = =	92434...	...LG 94684 = =	Weak, med-fast. Difficult copy	BR	TUE
	1800z	13 Jun	'025' 521 30 = =	18821...	...LG 46315 = =	Fair, med-fast. Long zero used on call-up	BR	THU
	1800z	18 Jun	'025' 235 30 = =	68731...	...LG 43675 = =	Weak, med-fast. Poor copy	BR	TUE
	1758z	20 Jun	'025' 208 30	81802...	...LG 66606	Good, slow. Grp09 sent once only.	BR	THU
	1800z	25 Jun	'025' 194 30 = =	00657 48677 . . .37401 73802 = =		(1810z)	tiNG	TUE
6435	1500z	01 Jun	'025' 212 30 = =	60253...	...LG 39380 = =	Good, fast. Errors grps11, 30 & end DK	BR	SAT
	1500z	08 Jun	'025' 031 30 = =	. . . .	...LG 43489 = =	Weak, fast. Poor copy	BR	SAT
	1500z	15 Jun	'025' 219 30 = =	71804...	...LG 38252 = =	Weak, V.fast. Grp & rpt sent with no pauses	BR	SAT
	1458z	22 Jun	'025' 379 30 = =	72483...	...LG 81006 = =	Fair, fast. Numerous errors		
6780	0700z	02 Jun	'025' 321 30 = =	54103...	...LG 64240 = =	Good, fast. Numerous errors	BR	SUN
	0700z	09 Jun	'025' 106 30	33751...	...LG 77729	Strong, fast. Disjointed & confusing	BR/RNGB	SUN
	0700z	16 Jun	'025' 836 30 = =	12601...	...LG 81768	Fair, Figs sent individually with pauses	BR	SUN
	0658z	23 Jun	'025' 593 30 = =	22709...	...LG 91771 = =	Fair, fast. Msg sent as continuous stream	BR	SUN

M01a (formerly end of month TXs, now random)

7916	1854 - 1859z	20 Jun	(In tfc) (Remote Tuner Finland)	JPL	THU

(In tfc – 1854z)

333 28920 28920 (1855z)
333 27472 27472 (1857z)
333 27472 27472
111 000 (1859z)

M01b

4895//5340	2009z	03 May	'336' 786 34 = = 24178 ... 09351 = (2028z) Weak//Fair	JkC	FRI
5065//5805	1941z	02 May	'336' 786 34 = = 24178 ... 09351 = (1958z) Fair//Weak	DanE2k/HFD/JkC	THU
	1940z	06 Jun	'936' 372 31 = = 22640 ... 73774 = (1958z) Fair//Fair	JkC	THU
5085//5805	1940z	09 May	'936' 786 34 = = 24178 ... Fair//Weak (Expected 5065//5805 kHz)	JkC	THU
	1942z	23 May	'936' 786 34 = = 24178 ... 09351 = (1958z) Fair //Fair	JkC	THU
5095//5760	1832z	02 May	'815' 786 34 = = 24178 ...09351 = = (1850z)	HFD/JkC	THU
5095	1832z	06 Jun	'815' 372 31 = = 22640 ... 73774 = = (1849z) Fair	JkC	THU
5125//5735	1810z	20 May	'364' 786 34 = = 24178 ... 09351 = = (1828z) Weak //Very weak	HFD/JkC	MON
5735	1810z	27 May	'364' 786 34 = = 24178 ... 09351 = = (1828z)	tiNG	MON
5735	1810z	03 Jun	'364' 372 31 = = 22640 ... 73774 = = (1827z) Fair	JkC	MON
5150	1915z	13 May	'858' 786 34 = =	GD	MON
	1915z	20 May	'858' 786 34 = = 24178 94614 . .. 85616 09351 = = (1934z) Strong. Hum on signal	HFD/tiNG	MON
5465	1902z	03 May	'336' 786 34 = 24178 ... 09351 = (1920z) Fair	HFD/JkC	FRI
	1902z	31 May	'536' 768 34 =	GD	FRI
5468	1910z (IP)	14 Jun	372 31 = = ... 73774 =. (1919z) Very Slow (Remote Tuner Finland)	JPL	FRI
5810	1514z	03 May	'158' 632 30 = 80797 ... 92826 = (1530z) Weak	HFD/JkC	FRI
	1515z	31 May	'158' 279 30 =	GD	FRI
5938	1505z	06 Jun	'159' 279 30 = 79156 ... 22244 = (1520z) Fair	JkC	THU
5940	1504z	09 May	'159' 632 30 = 80797 ... 92826 = (1520z) Weak	JkC	THU
	1505z	23 May	'159' 279 30 = 79156 ... 22244 = Weak	JkC	THU
	1505z	30 May	'159' 279 30 =	GD	THU

M01c

3318 1933 - 1938z 20 Jun (In tfc) (Remote Tuner Finland) JPL THU

(In tfc – hand sent) 45830 BT

. . . . . 76059 10143 33461 54986 63140 89188 54026 41933 75574
66069 28103 46291 64537 92340 38315 47976 45107 25939 12087
28741 63216 89631 77048 01987 35555 96795 27418 26728 BT

45830 (1936z)

111 01987 35555 96795 27418 26728 (1937z)

111 000 (1938z)

4028 0146 - 0202z 07 Jun (In tfc) (Remote Tuner Eastern Siberia) JPL FRI

166 (Silent - 0147z)

174 174 174 82791 82791 (0150z) 174 174 174 82791 82791 (0152z) 174 174 174 82792 82.91

174 (0153z) 1.. 174 174 82791 82791 2 AS 4

174 174 82791 82791 (0155z) 174 172 .74 82791 82791 (0156z) 174 174 174 82791 82791 (0157z)

174 174 174 174 82791 (0158z) 174 174 174 83973 83973 (0159z) 174 174 174 83973 83973

174 174 174 83973 83973 (0200z) 174 174 174 83973 83973 (0201Z) 174 (Lost remote tuner - 0202z)

4812 0950 - 0956z 26 Jun (In tfc) (Remote Tuner Finland) JPL WED

(In tfc – 0950z)

407 (x2) 28 (Silent) (0950z)

333 28163 28163 333 28163 28163 333 28163 28163 333 28163 281 (Silent – 0952z)

111 999 (0853z) 5 10 BT

55213 48040 13213 81766 83231 86285 62257 33462 ....1 42061 BT ...2 (Faded completely out – T=0) (0955z)

111 BT 17071 (O956z) 111 000 (0956z)

6411	1041 - 1100z	14 Jun	793 (In tfc) (Remote Tuner Finland)	JPL	FRI
	793 793 793 59447 59447 (Cont`d – 1041z)				
	793 793 793 50449 50449 (Cont`d – 1043z) (Silent 1048z)				
10741	0337 - 0345z	04 Jun	(In tfc) (Remote Tuner Eastern Siberia)	JPL	TUE
	040 03 (0337z) (Very strong signal)				
	637 637 637 67 26 (0339z)				
	111 999 111 (0340z) 111 999 (0342z) 472 10 BT				
	73614 81634 48453 38495 50164 37261 18365 48362 48306 37473				
	000 (0344z) 111 0 0 0 (0345z)				

M03 III ICW, some CW

6524	1535z	14 May	797/33 = 88299 ...	HFD/JkC/tiNG	TUE
	1535z	28 May	798/00 = = (1538z) Fair	JkC	TUE
	1535z	04 Jun	798/00 = = 000 (1538z) Fair	JkC	TUE
	1535z	11 Jun	798/00	RNGB	TUE
	1535z	18 Jun	798/00 = = 000 (1538z) Fair	JkC	TUE
7727	1320z	11 Jun	543/00	RNGB	TUE
7837	1320z	02 May	432/35 = = 76154 ... 92304 = 000 (1337z) Fair	HFD/JkC	THU
	1320z	09 May	437/00 = = 000 (1322z) Strong	JkC	THU
	1115z	14 May	272/00 = = 0 0 0 (1118z)	HFD/tiNG	TUE
	1115z	21 May	274/36 = = 62770 14281 . . . 51132 65416 = = 000] (1133z)	tiNG	TUE
7838	1320z	20 Jun	437/00 = = 000 (1323z) (Remote Tuner Finland)	JPL	THU

M03 6524kHz 1535z 14 May13

797/33 =
88299 50510 51621 85381 17636
67662 83934 14621 66393 20476
35737 88712 31905 46131 80337
63203 59618 05606 89668 29581
79943 98089 26367 81889 82635
48309 00389 46974 86663 69244
76497 10494 49406= 000

Courtesy JkC

M03c (Stutter groups)
No reports

M03d
No reports

M03e
No reports

M08a XVIII ICW / CW, some MCW

New member Steve from USA has been following the HM01 schedules and reports this encounter with M08 on Mon 10 June;

Then at 1018z I checked 9155 kHz which has been // to 5855 kHz on M/W/F/Sunday in the past. Instead of HM-01 I found M8a in progress using CW. It broadcast in until 1033z . -Steve USA Thanks Steve, welcome to E2k - this mode is quite scarce now, though not quite extinct.

In addition to Steve's log is this fine selection of logs from MaleAnon. I will let MaleAnon's summary tell the tale of the current situation with M08a;

M08a is still with us although in a limited number of time slots and sadly with very few reports from E2K members. The following have been logged over the past two months. It seems that they now mostly use a single slot rather than the primary and secondary slots that they used to.

There have been a few transmissions heard on previous hours but no confirmations of the call-ups to indicate whether these were actually primary/secondary transmissions. One anomaly on 10 June when M08a was heard in place of HM01 at 1000z. Transmission continued until the expected end time of M08a so we should expect to find the TX elsewhere in this time slot.

Current known schedules are listed in the charts section.

7554	2000z	07 Jun		MaleAnon	FRI
	2000z	11 Jun	Found in progress Carrier came up before Morse started suspect V02a may be present elsewhere.	MaleAnon	TUE
	2000z	13 Jun	[----- ----- -----] Found in progress	MaleAnon	THU
	2000z	18 Jun	[----- ----- -----] Found in progress	MaleAnon	TUE
8009	2300z	06 May	[70??1 23172 3??11]	MaleAnon	MON
	2300z	15 May	[87231 01552 14081]	MaleAnon	WED
	2300z	24 Jun	[----- ----- 220??]	MaleAnon	MON

8096	1300z	21 May	[----- ----- -----] Found in progress at 1330z	MaleAnon	TUE
	1400z	31 May	[----- ----- -----]	MaleAnon	FRI
	1400z	03 Jun	[18262 22801 35022]	MaleAnon	MON
	1300z	05 Jun	[----- ----- -----] In progress at 1330z	MaleAnon	WED
	1400z	05 Jun	[----- ----- -----] Up late found in progress	MaleAnon	WED
	1400z	07 Jun	[----- ----- -----] Up late found in progress	MaleAnon	FRI
	1400z	12 Jun	[----- ?2501 35022]	MaleAnon	WED
	1400z	24 Jun	[----- ----- -----] Found in progress	MaleAnon	MON
	1400z	25 Jun	[----- ----- -----] Found in progress	MaleAnon	TUE
8135	2300z	17 May	[23752 36282 40511]	MaleAnon	FRI
	2300z	22 May	[----- ----- -----] Slow delivery, expected faster in this slot	MaleAnon	WED
	2300z	24 May	[----- ----- -----]	MaleAnon	FRI
	2300z	27 May	[----- ----- -----]	MaleAnon	MON
	2300z	28 May	[----- ----- -----]	MaleAnon	TUE
	2300z	07 Jun		MaleAnon	FRI
	2300z	11 Jun	[48572 ----- -----] One of the other call-ups ended 002.	MaleAnon	TUE
	2300z	13 Jun	[----- ----- -----] Up late already in progress	MaleAnon	THU
	2300z	19 Jun	[82721 ----- -----]	MaleAnon	WED
	2300z	21 Jun	[----- 71352 847?1] came up late in progress	MaleAnon	FRI
	2300z	25 Jun	[----- ----- -----] In progress at 2302z	MaleAnon	TUE
9155	1000z	10 Jun	Transmission believed in error on a frequency used by HM01	MaleAnon/Steve	MON

M08c
No reports

M08d
No reports

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

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

M12 has us worried again as many of the expected scheds failed to appear from May 01. When they still hadn't appeared into the 2nd week Brian (BR) was thinking they may be gone for good. A collective sigh of relief went up when from Monday 13 May, the missing scheds returned.

Quite why M12 has started this habit of dropping scheds, first at the beginning of the year and now following the May Day holiday is a puzzle. There has also been some technical problems over the last few months.

Is M12 running on a reduced budget now and having problems maintaining equipment or staffing levels? Are the missing scheds of so little importance that they can be lapsed for a week or two - perhaps routine 'admin' traffic?

May 2013:

6857/7557/---	0430/0450/0510z	20 May	850 000 (Severe QRM from digital stn on 7557kHz)	FN/HFD	MON
7984/9184/---	0630/0650/0710z	09 May	911 000	FN/GD/HFD	THU
	0630/0650/0710z	16 May	911 000	FN	THU
	0630/0650/0710z	23 May	911 000	FN	THU
8047/6802/5788	1700/20/40z	15 May	463 1 (2520 97) 04047...	FN/HFD	WED
	1700/20/40z	22 May	463 1 (1915 98) 93553...	DanE2k/FN	WED
9176/7931/6904	1900/20/40z	06 May	257 1 (7220 75) 30389...	FN	MON
	1700/20/40z	13 May	257 1 (7772 78) 62146...	FN	MON
	1800/20/40z	13 May	257 1 (6645 64) 45534... QRM from digital stn on 6904kHz	FN	MON
	1900/20/40z	13 May	257 1 (5775 73) 83936...	FN/HFD	MON
	1700/20/40z	16 May	257 1 (5596 95) 61185...	FN/HFD/JkC	THU
	1900/20/40z	16 May	257 1 (5681 69) 09637...	FN	THU
	1700/20/40z	20 May	257 1 (8954 70) 96091... QRM from digital stn on 6904kHz	DanE2k/FN/JkC	MON
	1800/20/40z	20 May	257 1 (7747 65) 99949... QRM from digital stn on 6904kHz	DanE2k/FN/JkC	MON
	1900/20/40z	20 May	257 1 (7780 80) 96829... Slow	DanE2k/FN/JkC	MON
	1700/20/40z	23 May	257 1 (8062 91) 42735...	FN	THU
	1900/20/40z	23 May	257 1 (3342 68) 52620...	FN	THU
	1700/20/40z	30 May	257 1 (4487 97)	GD	THU
/7931/6904	1920/40z	30 May	257 1 (8358 67) 27282 ... 14713 000 Strong	JkC	THU
9241/7541/---	2100/20/40z	01 May	258 000	HFD	WED
	2100/20/40z	08 May	258 000	FN	WED
	2100/20/40z	15 May	258 1 (519 89) 05195...	FN/JkC	WED
	2100/20/40z	22 May	258 000	FN	WED
10343/9264/8116	1800/20/40z	02 May	124 1 (5198 76)	DanE2k/HFD	THU
	1800/20/40z	09 May	124 1 (3336 70) 65488...	FN	THU
/9264/8116	1820z	02 May	124 1 (5198 76) 5543? ... 82415 (1828z) Slower than usual? 20-21wpm	JkC	THU
10343/9264/8116	1830z	14 May	124 1 (6928 68) 82594 ... 93612 (1836z)	GD/HFD/JkC	TUE
	1700/20/40z	16 May	124 1 (4675 74) 91041...	FN/HFD	THU
	1800/20/40z	16 May	124 1 (7823 78) 78190...	FN	THU
	1800/20/40z	17 May	124 1 (1051 84) 06596...	FN	FRI
	1830/1850/1910z	21 May	124 1 (8356 68) 01757 ...	FN/JkC	TUE

	1700/20/40z	23 May	124 1 (1049 74) 66064...	FN	THU
	1800/20/40z	23 May	124 1 (3340 93) 01809...	FN	THU
	1800/20/40z	24 May	124 1 (209 51) 49336...	FN	FRI
	1700/20/40z	30 May	124 1 (1574 72)	GD	THU
11435/10598/9327	1830/1850/1910z	15 May	938 1 (3478 57) 84737...	FN	WED
	1830/1850/1910z	22 May	938 1 (5636 64) 25651...	FN/HFD	WED
12162/11566/10711	1600/20/40z	13 May	546 1 (...) Very weak signal	FN	MON
	1600/20/40z	20 May	546 1 (6548 96) 73881...	FN/HFD	MON
13926	1310z	04 May	919 000 (1312z)	HFD/JkC	SAT
13926/12126/---	1310/30/50z	09 May	919 000	FN/JkC	THU
	1310/30/50z	16 May	919 1 (1992 117) 66964...	FN/JkC	THU
	1310/30/50z	23 May	919 000	FN	THU
	1310/30/50z	25 May	919 000	FN	SAT
/12126	1330z	30 May	919 000 (1332z) Strong	JkC	THU
14372/13472/11472	1300/20/40z	06 May	344 1 (9868 149) 59905...	FN	MON
	1300/20/40z	13 May	344 1 (6349 191) 63995...	FN/HFD/JkC	MON
	1300/20/40z	20 May	344 1 (8188 139) 57453...	CB/DanE2k/FN	MON
/13392/12126	15**26**/**52**z	01 May	344 1 (661 297) 15066. . Fair Repeat of 29 Apr 1300z	JkC	WED
			Note: 2nd & 3rd transmission times delayed due to length of msg		
	1520/40z	29 May	344 1 (1817 139) 73498 ... Strong	JkC	WED
14492/13392/12126	1500/20/40z	01 May	344 1	HFD	WED
	1500/20/40z	08 May	344 1 (9868 149) 59905... Repeat of 06 May 1300z	FN/JkC	WED
	1500/20/40z	15 May	344 1 (6349 191) 63995... Repeat of 13 May 1300z	FN/JkC	WED
	1500/20/40z	22 May	344 1 (8188 139) 57453... Repeat of 20 May 1300z	FN	WED
14869/13569/12179	2110/30/50z	04 May	851 1	HFD	SAT
	2110/30/50z	08 May	851 1 (9425 133) 40012...	FN	WED
	2110/30/50z	11 May	851 1 (9425 133) 40012... Repeat of 08 May 2110z	DanE2k/FN	SAT
	2110/30/50z	15 May	851 1 (9676 75) 98928...	FN/JkC	WED
	2110/30/50z	18 May	851 1 Very Weak ...	DanE2k	SAT
	2110/30/50z	22 May	851 1 (2422 93) 01629...	FN	WED
	2110/30/50z	25 May	851 1 (2422 93) 01629... Repeat of 22 May 2110z	FN	SAT

<u>June 2013:</u>

6857/7557/---	0430/0450/0510z	10 Jun	850 000	FN	MON
	0430/0450/0510z	24 Jun	850 000 Very weak signal, QRM dig station on 7557kHz	FN	MON
7984/9184/---	0630/0650/0710z	13 Jun	911 000	FN	THU
	0630/0650/0710z	20 Jun	911 000	FN	THU
8047/6802/5788	1700/20/40z	05 Jun	463 1 (1846 91) 73694 ... 68690 Strong	JkC	WED
	1700/20/40z	19 Jun	463 1 (7313 95) 57131...	FN/JkC	WED
	1700/20/40z	26 Jun	463 1 (6263 91) 97230...	FN	WED
/7931/6904	1720/40z	03 Jun	257 1 (3474 76) 91902....70070	JkC	MON
9176/7931/6904	1800/20/40z	03 Jun	257 1 (5437 67) 77109....99452	JkC	MON
/7931	1720z	06 Jun	257 1 (7648 91) 90220 ... 28844 (1727z) Fair	JkC	THU
9176/7931/6904	1900/20/40z	06 Jun	257 1 (2124 63) 32673 ... 85618 (1906z) Strong	JkC	THU
	1700/20/40z	10 Jun	257 1 (3913 77) 19673... QRM from digital station 6904kHz	FN	MON
	1800/20/40z	10 Jun	257 1 (2762 62) 84545... QRM from digital station 6904kHz	FN	MON
	1900/20/40z	10 Jun	257 1 (1020 88) 30123...	FN	MON
	1700/20/40z	13 Jun	257 1 (4310 91) 88997...	FN	THU
	1900/20/40z	13 Jun	257 1 (7630 68) 98054...	FN	THU
	1700/20/40z	17 Jun	257 1 (4382 77) 16521...	FN/JkC	MON
	1800/20/40z	17 Jun	257 1 (1642 64) 09966...	FN	MON
	1900/20/40z	17 Jun	257 1 (2791 94) 55939...	FN	MON
	1700/20/40z	20 Jun	257 1 (7596 -)	FN	THU
	1900/20/40z	20 Jun	257 1 (7652 62) 54668...	FN	THU
	1700/20/40z	24 Jun	257 1 (4621 72) 34288... QRM from digital station 6904kHz	FN	MON
	1800/20/40z	24 Jun	257 1 (2180 60) 35282...	FN	MON
9986/9086/7386	2100/20/40z	05 Jun	903 1 (7757 97) 95916 ... 99211 Strong	JkC	WED
	2100/20/40z	19 Jun	903 000 Strong	FN/JkC	WED
10343/9264/8116	1830/1850/1910z	04 Jun	124 1 (6453 63) 06679 ... 08443 Strong	ATC/JkC	TUE
/8116	1740z	06 Jun	124 1 (8003 73) 82405 ... 99923 (1746z) Strong	JkC	THU
10343/9264/8116	1800/20/40z	06 Jun	124 1 (6093 93) 29100 ... 98667 (1808z) Strong	JkC	THU
	1830/1850/1910z	11 Jun	124 1 (3123 53) 09691...	FN	TUE
	1700/20/40z	13 Jun	124 1 (1187 70) 36414...	FN	THU
	1800/20/40z	13 Jun	124 1 (8664 99) 55379...	FN	THU
	1830/1850/1910z	18 Jun	124 1 (1969 65) 69158 ... 07708 000 Strong	FN/JkC	TUE
	1700/20/40z	20 Jun	124 1 (8932 71) 56857...	FN	THU
	1800/20/40z	20 Jun	124 1 (2983 87) 31132...	FN	THU

11435/10598/9327	1830/1850/1910z	05 Jun	938 1 (6750 62) 26984 ... 70124 Strong	JkC	WED
	1600/20/40z	10 Jun	938 1 (8513 112) (In place of expected 546 sched)	BR	MON
	1830/1850/1910z	12 Jun	938 1 (1186 69) 31026...	FN	WED
	1600/20/40z	17 Jun	938 1 (265 52) 34095...	FN	MON
	1830/1850/1910z	19 Jun	938 1 (4853 54) 44571...	FN/JkC	WED
	1600/20/40z	24 Jun	938 1 (8957 105) 73977...	FN	MON
	1830/1850/1910z	26 Jun	938 1 (8995 57) 32286...	FN	WED
13873/13373/11473	1310/30/50z	13 Jun	834 1 (3576 143) 39599...	FN	THU
	1310/30/50z	15 Jun	834 1 (3576 143) 39599... Repeat of 13 Jun 1310z	FN	SAT
	1310/30/50z	20 Jun	834 000	FN	THU
	1310/30/50z	22 Jun	834 000	FN	SAT
14524/13524/11524	1300/20/40z	10 Jun	555 1 (7395 215) 29441... QRM from strong digital station 11524kHz	FN	MON
	1300/20/40z	17 Jun	555 1 (6018 141) 57251... Very strong sig in France	CB/FN/JkC	MON
	1300/20/40z	24 Jun	555 1 (6429 187) 28209...	FN	MON
14964/13972/12164	1500/20/40z	05 Jun	555 1 (7926 155) 52430 ... 19404 Strong. B/Cast QRM 12164kHz	JkC	WED
	1500/20/40z	19 Jun	555 1 (6018 141) 57251... Repeat of 17 Jun	FN/JkC	WED
	1500/20/40z	26 Jun	555 1 (6429 187) 28209... Repeat of 24 Jun B/Cast QRM 12164kHz	FN	WED
16269/14669/13369	2110/30/50z	05 Jun	263 1 (911 71) 48432 ... 64584 Strong	JkC	WED
	2110/30/50z	12 Jun	263 1 (1900 119) 06733...	FN	WED
	2110/30/50z	15 Jun	263 1 (1900 119) 06733... Repeat of 12 Jun 2110z	FN	SAT
	2110/30/50z	19 Jun	263 1 (4662 85) 46581 ...	FN/JkC	WED
	2110/30/50z	22 Jun	263 1 (4662 85) 46581... Repeat of 19 Jun 2110z	FN	SAT

M12a (two message variant)
No Reports

M14 IA MCW / ICW / MCWCC, short 0

5936	1920z	15 May	417	HFD	WED
5938	1918z	29 May	417 (342 15) = 56775 29054 56779 13479 97544.....43567	RNGB	WED
6856	1820 - 1829z	14 May	163 (265 15) = 53675 ... 42165 = Fair	GD/HFD/JkC/RNGB	TUE
	1820 - 1826z	28 May	163 (255 15) = 34543 ... 99766 =	JkC/tiNG	TUE
	1820 - 1826z	11 Jun	163 (809 15) = 87463... 46789 =	RNGB/tiNG	TUE
9085/9395	0700/0800z	14 May	576 00000	RNGB	TUE
9395	0800z	11 Jun	576 00000 (S9+) Transmission failed after 2 minutes. *(I didn't hear the 0700 on 9085 so I guess that failed also).*	RNGB	TUE
10755	1819 - 1820z	11 Jun	818 (368 52) = 49784 92029 BT BT (Remote Tuner Russia)	JPL	TUE
11487	0608z (IP)	28 May	. . . (209 65) = ... 38295 = (1614z) NRH at 0630 or 0700z	RNGB	TUE
	0605z (IP)	29 May	. . . (178 64) = ... 95643 = (0614z)		

Different message from yesterday. Maybe repeats late afternoon/early evening; or a 0500/30 start?

M14 6856kHz 1820z 11 Jun13

163 (R3m)

809 809 15 15 = =

87463 11008 73829 46376 40092
38746 19134 09134 72210 97635
87246 29984 11198 77333 46789

= = 809 809 15 15 00000
Courtesy tiNG

M14a (two message variant)
No reports

M18 IC Time strings, UTC+4

4074	1514z	02 May	[1918...etc.] (In Progress - sending Time strings - Long zero) (Remote Tuner Siberia)	JPL	THU
4407	1816z	09 Jun	[2217 2218...etc.] (In Progress - sending Time strings - Long zero) (Remote Tuner East Siberia)	JPL	SUN
4503	1753z	20 May	[0411...etc.] (In Progress - sending Time strings - Long zero) (Remote Tuner Siberia)	JPL	MON
	1926z	20 May	[0543 0543 0543 ...etc.] Strong QRM dig station	FN	MON
	1209z	22 May	[0419...etc.] (In Progress - sending Time strings- Long zero) (Remote Tuner East Siberia)	JPL	WED
	1125z	24 May	[1726 1727...etc.] (In Progress - sending Time strings - Long zero) (Remote Tuner East Siberia)	JPL	FRI
	1142z	05 Jun	[0254 0255...etc.] (In Progress - sending Time strings - Long zero) (Remote Tuner East Siberia)	JPL	WED
	1940z	11 Jun	[0140 0140 0140 ...etc.]	FN	TUE

M23 O ICW

No calls or msgs have been reported for the May / June period. However, on at least one of the two last used freqs , 7668kHz, the characteristic single 'dash' or double 'dits' have been logged daily throughout both these months.

The principle single 'dash' is sent at H+51, approximately the same time as the last transmissions heard from the station, (the station has been noted for gaining time over the period of its transmissions), but in addition double 'dits' have been noted around H+25 & H+38 & H+44, though these do not always appear to be present.

Quite what purpose these transmissions serve is unknown. Previously the station has been reactivated with calls or msgs on freqs where these markers have been noted, while on other occasions they have ceased without any further transmissions having been heard.

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

5380	1830z	26 Apr	818 (403 116) = = Ending ... 58932 = 403 116 00000	GD/JkC	FRI
8098	1838 (IP) - 1845z	24 May	- - - (902 116) = = ... 92624 22650 = 902 116 00000	FN	FRI
10755	1700z	03 Jun	975 (302 88) = = 33626 ... 57581 (1715z) Strong 25 wpm	JkC	MON

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

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

Both Jim (JkC) & Thomas (tiNG) caught this oddity on Tue May 21;

4974//5373	1742z	21 May	'973' 381 32 = = 78597 ... Tx incomplete] (1754z) Fair // Weak	JkC/tiNG	TUE

Jim writes; *At 1742z I tuned expecting S21, but instead got M45. The transmission started normally (for M45), but after 17 groups transmission stopped. The carrier stayed on air for about a minute longer, then died. I kept an eye on the waterfall for 5373kHz while copying G11 and M01 nearby, and continued monitoring freq until 1825z, but the carrier / transmission did not continue.*

5074//5474	1702z	02 May	'074' 381 32 = = 78597 ... 10652 = 381 32 000 (1718z) Weak	JkC	THU
	1702z	06 Jun	'074' 763 30 = = 84763 ... 28344 = 763 30 000 (1720z) Weak	JkC	THU
	1702z	18 Jun	'074' 763 30 = = 84763 ... 28344 = 763 30 000 (1719z) Fair//Fair	JkC	TUE
5074//NRH	1702z	23 May	'074' 381 32 = = 78597 ... 10652 = 381 32 000 (1718z) Weak	JkC	THU
	1702z	11 Jun	'074' 763 30 = = 84763 70496 . . .60726 28344 (1718z)	tiNG	TUE
	1702z	25 Jun	'074' (R3m) -> faded out completely…!!!] ????z	tiNG	TUE
5474//NRH	1702z	14 May	'074' 381 32 = = 78597 ... 10652 = = (1718z)	GD/HFD/JkC	TUE
	1701z	21 May	'074' 381 32 = = 78597 ... 10652 = = (1719z)	DanE2k/tiNG	TUE
	1702z	28 May	'074' 381 32 = = 78597 ... 10652 = = Weak	JkC	TUE
	1702z	30 May	'074' 381 32	GD	THU
	1703z	04 Jun	'074' 763 30 = = 84763 ... 28344 = = (1718z)	JkC	TUE

M45 5474kHz 1702z 02 May13

074 (R4) 381 381 32 = =

78597 59398 30913 52581 70330
95454 15934 00067 16120 08365
08561 90237 67540 92568 31550
85052 55237 40657 57060 05267
06949 17255 75283 34403 48883
89101 98300 48131 56265 20395
04511 10652 = =
381 381 32 32 000

Courtesy JkC

M51 XlX

3881//6825	1157 - 1216z	16 May	5 ltr grps - Nr 33 M 16 14:03:45 1984 BT etc. Ceased suddenly	BR	THU
11574	1924z	13 May	5 ltr grps - Nr 31 M 13 21:24:00 1985	GD	MON

Steven from Jena, Germany sent a long transcript log to E2k via the website - Thanks Steven!

9213	Evening (IP)	09 Jun	5 Ltr grps - Nr 36 J 05 19:30:24 1985 BT etc.	SB	SUN

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

3881//6825

1130 - 1213z	13 May	Lundi-Lecon	01-2/1 Codé, 01-2/2 Clair, 01-2/3 Codé, 01-2/4 Clair (420 grps/hr)	BR	MON
1130 - 1201z	14 May	Mardi-Lecon	02-2/1 Codé, 02-2/2 Clair, 02-2/3 Codé, 02-2/4 Clair (600 grps/hr)	BR	TUE
1130 - 1204z	15 May	Mercredi-Lecon	03-2/1 Codé, 03-2/2 Clair, 03-2/3 Codé, 03-2/4 Clair (720 grps/hr)	BR	WED
1130 - 1155z	16 May	Jeudi-Lecon	04-2/1 Codé, 04-2/2 Clair, 04-2/3 Codé, 04-2/4 Clair (840 grps/hr)	BR	THU
1130 - 1203z	17May	Vendredi-Lecon	05-2/1 Codé, 05-2/2 Clair, 05-2/3 Codé, 05-2/4 Clair (960 grps/hr)	BR	FRI

M89 O

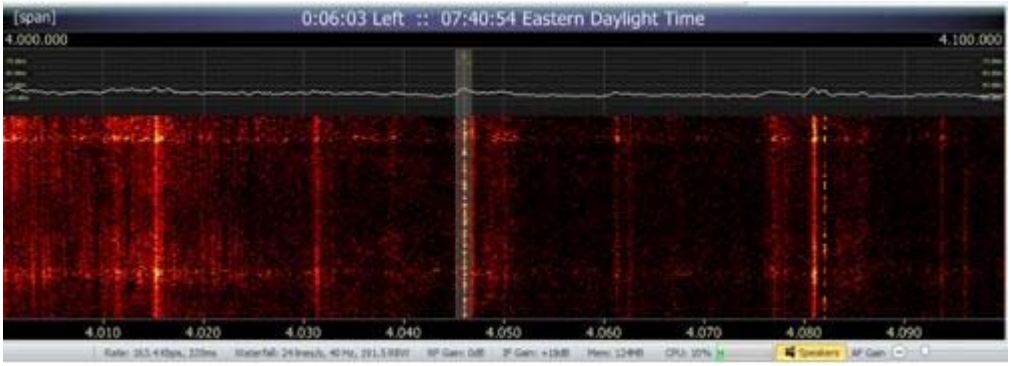
JPL has written an excellent in-depth report on this station entitled 'M89 or the Communication Network of the Second Artillery Corps / Force' which can be found on page 67 of the ENIGMA 2000 Newsletter 73 (Nov 2012) or now downloadable from the 'Articles' section of the ENIGMA 2000 website.

Jean-Paul (JPL) writes, Monitoring M89 can get quite interesting at times. Sunday 05 May was one of those days.

Imagine my surprise when I noticed a signal on the waterfall of the Siberian SDR Remote Tuner indicating the presence of an M89 transmission on 4325. All of a sudden another signal appears on the waterfall on 4388, which turned out to be another M89 station. Two for the price of one... But wait, it gets better. When I notice a 3rd signal appear on the waterfall on 4357. I just had to check it out and you guessed it, I now I have a total of three M89 transmissions going on at the same time in close proximity.

In the end, I concentrated on the 4388 transmission as I managed to get a message header. I was so excited that I forgot to do a Print Screen showing all three stations active at the same time. The three logs are listed below in the Operator Chat section, marked with an asterisk.

Jean-Paul didn't catch a screenshot of that event, but has managed to capture this one, of two closely spaced M89 signals in progress on the 07 May.



Tue 07 May 2013 1137z M97 - Showing two different transmissions in progress on 4047kHz & 4083kHz *Courtesy JPL*

Operator Chat from M89

3276 1836 - 1846z 15 May (In tfc) (Remote Tuner Siberia) JPL WED

MSG NR 364 CK 91 26 0516 0239 K (1836z) R BT 4N3D 433N 756N ADU4 N54D T.T3 UA66 75TT TUUN TAN6 D4UD NTAA (Cont'd – 1838z) AR K (1842z) R AS (1842z) R EEEE VV RPT 21W BT 76U7 76U7 AR K (1843z) R RPT 89W BT NUT3 NUT3 AR K R LSB K GA K (1844Z) GA K (1845z)

3456 1630 - 1635z 02 May (In tfc) (Remote Tuner Siberia) JPL THU

(In tfc – 1630z) RMKS BT 7595 TO 706./70.4...95 AR *MSG NR 154/CCK CK 1.9 66 0503 0025 RM K * RMKS R . BT 7595 TO 7063/.004 TO 7595 AR K R E BT BT BT 6546 A46N 7.3 7..3 (Cont'd – 1632z) AR AR (1639z) 1P94W BT BT ..3. NU3 AR (1640z) .W BT BT 64.7 6... AR R RHR NR 113 ? K R NIL SK R GB (1641z)

3682 1108 - 1120z 03 May (In tfc) (Remote Tuner Siberia) JPL FRI

(In tfc - 1108z) 5D4A D57A A6N3 N34A D3.A U.N5 III BT U4N. 6TA3 (Cont'd) AR (1113z) H0555 Q..EEE 0550. 54 EEEE 05.5 5055 0550.. 5050 ... 555 05 055 (Silent - 1115z)

3777 1455 - 1458z 19 May (In tfc) (Remote Tuner Siberia) JPL SUN

(In tfc – 1455z) AR K (1456z) R RPT 37W 56AU 56AU K R RPT 38 K EEEE RPT 38W N54A NN4A K R RPT 77W 34DT 34DA K K (1457z) EEE R R (Silent – 1458z)

4031 1629 - 1637z 17 May (In tfc) (Remote Tuner Siberia) JPL FRI

R (In chat 1629z) *MSG NR 274 CK 91 10 0518 0030 RMKS 1474 TO W..14 1744 1784 K* (1629z) R BT BT NN36 7TDA NTT7 .DUN UU7N T3T3 NDT. (Cont'd) 73AD AR *M.QR DE Z..1* K (1633z) RPT65W BT .4 6A45 AR K (1634z) RPT 7.W BT 7A5T 7A5T AR K RPT K R HP NCA AR K (1635z) R R *.7GB DE ZBQ1 K* (1635z) KKM. R *8UTN DE ZBQ1* K (1636z) R LSB K (Switched to voice – 1637z)

4047 1137 - 1147z 07 May (In tfc) (Remote Tuner Siberia) JPL TUE

(In tfc – 1137z) T365 DN47 T53N DA6U T4UD NA53 (Cont'd) *(Another M89 also in tfc on 4083, but will concentrate on this one as much stronger signal)* III BT 76T5 AS (1139z) BT ..3DAN U4.T 356A NU.. (Cont'd – 1139z) (Lost tuner at 1147z)

4140 1558 - 1611z 12 May (In tfc) (Remote Tuner Siberia) JPL SUN

(In tfc – 1558z) D4UD D3N6 NT.U UD. (Cont'd) K (1559z) 9.W BT 37TD P EEEE BT 37TD U EEE W7TD M EEEEEEAR K (1600z) R V EEE R 2 AR 0. BT EEEE BT TDN AR K (1601z) R 2P 08W BT 4TDN AR K NR R R *MSG NR 19 CK 11. 95 0513 0001 RMKS 5997 TO 5415 K* (1603z) R R BT B 5U7 7U34 T54D U6DN 47DT 7TUN U6.. (Cont'd – 1604z) K (1608z) R R R R (1609z) (Appears to have switched to voice – 1610z)

4285 1640 - 1653z 17 May (In tfc) (Remote Tuner Siberia) JPL FRI

(In chat – 1640z) *DE Y3AK* K GA UVVV *WK8B DE Y3AK K* (1641z) QSA 2 UVV EE NR 1618D EEEE/EX TIME TT43 BT YA/H7 AR EE *NR 1618/EX TIME 0043 BT YA/.7 AR * EE NR 1618/EX TIME 0043 BT YA/H7 AR (1642z) (The 2 letters EE sent before the message are a Barred E) VV *FA4K DE Y3AK K* K (1643z) OK VVV *E3SB DE Y3AK K* K (1643z) OK OK VVV *JNC. DE Y3AK K* K (1644z) OK OK VVV *F4CY DE Y3AK K* K (1644z) MK OK SS I M EEE VVV WKOEB DE Y3AK K K QSL 0.. VVV *WK8B DE Y3AK K* K (1645z) MSG GA MSG A GA GA MSG GA MSG NR .6199 CK *NR 1619 CK 71 1. RMKS CQ BT* BT B T AU53 6NAD TU3N 5436 7AU5 U54A NA6T DT7N 7NA4 (Cont'd – 1647z) AR (1650z) U VV *F4.. DE Y3AK K* K (1650z) NP QSL ? K K QSA ? K K QSL ? K (1651z) OK OK VVV *E3SB DE Y3AK K* K (1652z) OK OK VVV *JNC9 DE Y3AK* K K OK OK VVV F4CY DE Y3AK* K K OK OK STVV *WK8B DE Y3AK K* K WK8B DE Y3AK K K (Silent – 1653Z)

4325* 1339 - 1405z 05 May (In tfc) (Remote Tuner Siberia) JPL SUN

(tfc not monitored)

4388* 1341 - 1405z 05 May (In tfc) (Remote Tuner Siberia) JPL SUN

(In chat – 1341z) R MSG GA R *MSG NR 38 CK 91 .2 0505 2120 BT* RMKS 6323 TO 6N EEEE E E RMKS E E EEEEE RMS K (1343z) 9 E E R BT U647 U45T TA77 U5A4 7NN3 37UT 7DAN UUL3 T3N5 TT33 3T77 63N. 67UN 5NDU 775N 4764 U64A TT7N T646 7NT. (Cont'd – 1344z) (Sends ? when a mistake is made) .. 75NT 75NT AR K (1348z) R R *C.F4* K (1349z)(Possibly a callsign) RPT K AS AS (1350z) 8G ... K GA K (1350z) ..21.. SK (Probably QSL for msg) *CRF.* GA K (1355z) (Possibly a callsign) RPT ... K K (1356z) RPT PBL K (1357z) R RPT PBL K GA K (1358z) (Lost remote tuner 1405z)

4388 1458 - 1518z 07 May (In tfc) (Remote Tuner Siberia) JPL TUE

(In tfc – 1458z) 3TNU A..U 6U5U AAD5 46N5 TN55 (Cont'd – hand sent – 1458z) AR (1500z) ... 9 K R ..TO 8W BT TA33U 56 AR K R *EWJ9* K (1501z) R AS AS *XLF9* . K R GA K (1502z) RPT EEE RPT 08W K (1506z) RPT 60W K R RPT 63W TO 68W K R RPT 72W TO 80W K (1508z) R RPT 72W TO 79W K R *QSL 2309* K R SK (1509z) *EWJ9* GA K (1510z) R GA K (1510z) RPT 16W K (1514z) RPT 21W K RPT 29W K RPT 34W K R AS AS (1515z) RPT 40W K R *QSL 2315 K* R SK (Silent - 1516z)

4357* 1347 - 1405z 05 May (In tfc) (Remote Tuner Siberia) JPL SUN

(In tfc – 1347z) 3N3N D64 DT77A 3N44 65T3 T37T T3N5 TT3. D76A U74U 45UD NA.D 3N3T (Cont'd – 347z) R GA (1353z) (Lost tuner at 1405Zz)

4394 1439 - 1456z 07 May (In tfc) (Remote Tuner Siberia) JPL TUE

(In chat 1439z) R GA BT A3NU NT. U3AU A356 NNUT (Cont'd – 1440z) AR (1445z) VV *DCS6 DE 3NSC K* (1445z) 6OZQS. NR 52 K VV *A6AG DE 3NSC K* (1446z) 6OZQSY NR 42 K VV *TK9U DE 3NSC K* R GA GA (1447z) (Another M89 station in tfc on 4373) ... 52W K (1452z) R RPT 2P 13W TO 14W K R RPT 91 EEE RPT 91 EEEE RPT 2P 14W K (Silent - 1453z)

4889 1923 - 1930z 17 May (In tfc) (Remote Tuner Siberia) JPL FRI

In tfc – 1923Z) III BT BT N.5D T3TD D4UT U65A A76N 6 ? A76N ADT6 (Cont'd – 1923z) AR AR K K (1924z) BT A437 A437 AR OK SK SK (1924z) R R R R GA *MSG NR 99 CK 111 38 0518 0324 RMKS 2304 TO 2494 K** (*1925z) GA BT NN6A A.UT 75N 4NT5 (Cont'd – 1926z) A7A6 T44T TA37 6646 AR (1930z) K SK (1930z)

5319 1122 - 1125z 07 May (In tfc) (Remote Tuner Siberia) JPL TUE

(In tfc – 1122z) 354. 34.T 56A6 ATTN NU4A 65.4 (Cont'd – 1122z) AR K (1124z) R BT 5U66 BT (1224z) NR OK (Appears to have switched to voice – 1125z)

5325 1010 - 1015z 02 May (In tfc) (Remote Tuner Siberia) JPL THU

(In tfc- 1010z) A7T6 DN5N 7DND ND.. U7T (Cont'd – fading badly at times) (Mostly U/R now – 1015z)

3596 1127 - 1137z 17 May (In tfc) (Remote Tuner Siberia) JPL FRI

(In tfc – 1127z) A4U4 7453 AT.6 7NUD TA64 NADU 73DD (Cont'd – 1128z) AR AR *HT3C K* (1129z) AS JB5 .. ...C K (1130z) 7D5 EEEE *7D5G* K R BT ND7D ND7D K (1131z) RPT K R R BT .D7D N.I7D K K 4.3S A633 K (1132z) R BT .3U. ? .. K R R UT4TA UT4. DDB.DD.. K *XJ6S DE U66E K* K (Unsure of call signs) NR 7DNU 7DNU K K (1134z) R TU 7AT. A K RPT K R R (Lost tuner – 1135z)

5325 1142 - 1210z 02 May (In tfc) (Remote Tuner Siberia) JPL THU

(In tfc – 1142z) 7NN4 DD.7 TA3. 4634 NN6A (Cont'd – weak and fading) (Sends ? when a mistake is made) (Silent - 1152z) .13 BT .3W BT D337 ATAD 45UT 34T7 3D47 7DD4 77UA AA6N AUA6 A354 (Cont'd – 1153z) BT BT ..N. A6N7 D4UT 73UU 7N43 (Cont'd – 1157z) AR QSL ? K (Silent - 1203z)

5336 1542 - 1616z 02 May (In tfc) (Remote Tuner Siberia) JPL THU

(In tfc – 1542z) DT66 7U3A TDDD 4UD4 NNDN 4UN5 DD5U U47D 5AUU (Cont'd) III BT 7N6N 3AUN 4UN3 5364 NNAT 6U4T (Cont'd – 1546z) III BT ATTN 4U55 6N4A A644 46AN U4UA N6A7 7UT4 (Cont'd – 1550z) III BT D7N. A7D4 D7D6 3N3A AND6 AD3N (Cont'd – 1558z) *... FM 76105 CK 45363* 3U64 DN47 N (Cont'd – 1559z) III BT (Silent - 1613z)

5340 1825 - 1830z 15 May (In tfc) (Remote Tuner Siberia) JPL WED

(In tfc - 1825z) A57N N4DU 7ADT 35U4 57T3 TAUN N4U3 (Cont'd) AR AR K K (1826z) OK GA (1827z) GA GA GA GA (1828z) RPT 28P K (1831z) OK RPT 29W RPT 29W (1831z) OK RPT 57W (1832z) RPT 57W K OK QSL 230 QSL 023A N K (1833z) AS P USP (Switched to voice – 1833Z)

4104 1910 - 1911z 17 May (In tfc) (Remote Tuner Siberia) JPL FRI

(In chat – 1910Z) VV K RPT 21W RPT 68W (19 QSL 08 EEEE *QSL 0310 K* SK (1911z)

4237 1758 - 1804z 20 May (In tfc) (Remote Tuner Siberia) JPL MON

(In tfc – 1758z) FM 31260170 BT B T K K (1759z) NR NR MSG NR *MSG NR 4042 NR 79 45 0521 0150 ..1260173 TO 1260170 K *K BT BT AD65 4T.A T6UA AUD5 D3N. 46.7 74TD (Cont'd – 1800z) AR AR K K (1803z) NR NPT NPT BT BT 1865 1865 AR AR K K (1804z) NR GA GA (1804z)

4373 1700 - 1711z 17 May (In tfc) (Remote Tuner Siberia) JPL FRI

(In tfc – 1700z) *010. RMKS 1534727 TO 1534725 K* K K K (1701z) BT BT 34T. D..U (Cont'd – 1701z) (Loud digital mode on same frequency) OK OK GA GA U GA U EE GA (1706z) *QSL 0122* K K (1708z *NR C NR 479 NR 4 C NR 4279 ..... K K* (QRM from data mode - 1709z) BT BT AC/6D AC/BD K K (1709z) BT AC/6DAC/BD K K (1710z) BT BT BT AC/6DAC/BD K K K K K OK OK (Silent – 1711z)

4394 1714 - 1718z 17 May (In tfc) (Remote Tuner Siberia) JPL FRI

(In tfc – 1714z) *RMKS 1542524 TO 1542523 K* (1715z) BT BT UA3. T57A 7N63 T47N 3NU4 5DNT (Cont'd – 1716z) OK GA GA (1718z – Lost remote tuner)

4485 1755 - 1757z 20 May (In tfc) (Remote Tuner Siberia) JPL MON

(In tfc – 1755z) MSG NR 1702 CK .1 13 0521 0150 BT BT BT ..4U. DU75T ... (Cont'd – very weak – 1756z)

4665 1837 - 1839z 20 May (In tfc) (Remote Tuner Siberia) JPL MON

(In chat – 1837z) NPT ..W K (1938z) NR . *QSL 0238* 0238 K (1838z) NR R. T6 GB GB SK (1839z)

4939 1744 - 1749z 20 May (In tfc) (Remote Tuner Siberia) JPL MON

(In tfc – 1744z) *RMKS 577348 FM 357732 AR* BT (1744z) BT BT U6T7 T65D N7D3 4D3A 7N3U 37DA (Cont'd – 1745z) AR K (1747z) NPT K BT 7N3U 7N3U (1748z) BT 7N3U 7N3U NR (1749z) NSK SK (1749z)

5348 2045 - 2048z 30 May (In tfc) (Remote Tuner Russia) JPL THU

(In tfc – 2045z) AD36 3NDA DUA7 ND.. 436 4.. (Cont'd – very weak) AR (2047z) R (Silent - 2048z)

5409 1518 - 1519z 17 May (In tfc) (Remote Tuner Siberia) JPL FRI

(In tfc – 1518z) *MSG NR3330 CK 60 87 0517 2240 AR K* R R MSG NR 3330 CK 60 87 0517 2140 BT K BT BT A657 .U54 357T 4TD3 6UT4 (Cont'd – 1519z)

5410 1523 - 1526z 17 May (In tfc) (Remote Tuner Siberia) JPL FRI

GU7J GU7J (1523z) QSY 201 QSY QSY QSY 01 QSY 02 QSY 02 BT BT K II FM BT KIS MFM II M MFM II MM MFM II MMM K FM II MMM K SFM II MMM KS MSG NR (1524z) *MSG NR 01 CK* 0RR V V BT DR4M DE DE D.IT DCS. R GA GA GA RP QSL NIL 224. 2246 BT BT BT D.U T7DU 4A53 TUA5 7UTD TDN6 (Con't – 1525 *MSG NR 01 CK 0RRVV* (Silent - 1526z)

5424 1444 - 1511z 17 May (In tfc) (Remote Tuner Siberia) JPL FRI

(In chat – 1444z) RGT9 FLW FLW3 RGT9 K OK OK *MSG NR 11592 CK 79 71 0517 2240 BT RMKS 1542.25 TO 1542523 K* (1445z) BT BT BT BT DUA TDUA UNA6 DU.4 DATU AT46 6T3A (Cont'd – 1445z) AR (1449z) RPT RPT ARGA R G R R GA (1450z) *NR 11593 CK 79 71 0517 2240 BT RMKS 1542525 TO 1542523 K *(1455z) BT BT BT 3A56 TU74 N3A6 A675 U4T7 356T (Cont'd – 1455Z) AR AR (1458z) MSG MSG MSG NR MSG *MSG NR 1594 CK 79 71 0517 2240 BT RMKS 1542525 TO 1542523 K* (1504z) BT BT BT 3U6.5AD6 63NA U47. (Cont'd – 1504z) AR AR K (1507z) R R QSL 2315 K (Silent - 1511z) (There are also M89 stations active 5415 and 5433)

5497 1450 - 1511z 17 May (In tfc) (Remote Tuner Siberia) JPL FRI

(In tfc – 1450z) *(Believe this to be the other end of station on 5424)* .. 2249 BT RMKS 542523 .. 42525 *MSG NR 6246 CK .6 7. 0517 2249 BT* UTT K (1451z) BT BT BT UTN3 TN56 64AU (Cont'd – 1451z) AR AR K (11 (In tfc – 1459z) 22. BT K *MSG NR 6247 CK 56 7. 0517 2040 BT* UT3T T6U3 D4T4 (Cont'd – 1500z) AR AR K (1502z) NR QSL 2300 K (1508z) *MSG NR 6248 CK .6 71 0517 2240 BT* K K MSG NR 6248 CK 66 71 0517 2240 BT UG6D 4DT3 UD.. (Cont'd – 1509z) AR AR K (1511z)

5500 1600 - 1602z 29 May (In tfc) (Remote Tuner Hong Kong) JPL WED

(In tfc – 1600z) ZZF3/H8 I3 AR NR 6329/..09 BT Z7F3/S8 I3 AR QSY 01 QSY 01 VV (Silent - 1601z) (Normally QV5B uses this frequency)

5500 2002 - 2003z 30 May (In tfc) (Remote Tuner Hong Kong) JPL THU

(In chat – 2002z) QSY 01 QSY 01 VV (2003z)

5500 2017 - 2018z 30 May (In tfc) (Remote Tuner Hong Kong) JPL THU

15/ EEE BT (In tfc – hand sent – 2017z) HHY4/HIJ1 AR *NR 6478/EX 0415 BT H5Y4/H8JJ AR* QSY 05 QSO EEEE QSY 05 VV (2018z)

5500 2028 - 2029z 30 May (In tfc) (Remote Tuner Hong Kong) JPL THU

(In tfc – hand sent – 2028z) *NR 716/EX BT 264W0F6/H.K 0 AR* SK SK (Silent – 2029z)

5555 1436 - 1532z 01 May (In tfc) (Remote Tuner Hong Kong) JPL WED

(In tfc – 1436z) 5A3D N3T7 D4AU NAAD U7A55 EE *MSG NR 78 CK 78 78 78 30 E* VV MSG NR 78 CK 78 78 78 30 E (1437z) BT 67 E *VV MSG NR 89 CK 89 89 89 30 E* E BT E E E E (1439z) *VV MSG NR 09 CK 999 05010300 300900010054 FM *(1440z) E E E E EE E E E EA E BT 4UNE (1441z) VVV MSG NR 89 CK 89 89 89 30 E BT 4UN5 57E E (1441z) E E BT 4UN5 573 (1442z) E BT EE E VV MSG NR 090 CK 05 4. E VV *MSG NR 09 CK 05 05 04 30* (1443z) E BT 4UN5 BT 4UN5 5734 5A3D N3T7 D4AU NAAD U7A5 3N5A633A 6T4N (Cont'd – changed sending speed to 40 WPM Plus) FM CON 6AA34 74TT 6A44 AS FM BAV NND3 4AN3 T45NN 6D6A NN73 65A6 4T E E VV *MSG NR 98 CK 89 89 89 3033* BT 4UN5 5734 5A3D N3T7 D4AU NAAD U7A5 3N5A 633A 6T4T 35N7 E (1446z) VV MSG NR 89 CK 89 89 89 0 E VV MSG NR 89 CK 89 89 89 0 E (1447z) E BT 4U E E BT WMLX RNGZ TFDC RDYL SLPI NVGO SPDN GNDB GX7R QWGE PLZR ANDM EF34 OK TY L..D ZF4C AWMA E (1448z 4295 8730 1638 9607 1 BT 4295 8730 1638 9607 1425 91 E E (Long zeros) E E E E E BT 4UN5 5734 5A3D N. (Silent - 1449z)

(Very interesting traffic! I'm just guessing, but I don't believe the operator realized that he was live on the air. Appears to be some sort of equipment testing with same groups being sent. What is also interesting is that traffic was sent in 3 different formats – 4 figure cut numbers, 4 letters and 4 number groups. Is this the break cryptographers are looking for???)

VV 7G NA (1456z) 7G NR G NR 1 CK A *MSG NR 1 CK 1/CKJ8* (Silent - 1457z)

5555 1345 - 1350z 14 May (In tfc) (Remote Tuner Hong Kong) JPL TUE

(In tfc – 1345z) *MSG NR 7 CK *..3. 4 212. K 22724 ..2.. *MSG NR .87*. .05 042350 RMKS .82.... K (1348z) BT BT (Mostly U/R – 1349z)

5555 1407 - 1417z 22 May (In tfc) (Remote Tuner Hong Kong) JPL WED

(In tfc – 1406z) *CK 79 13 0522 2103* (Silent - 1407z) 050 ... (1113z) TTTT 7NTAUAN35T7D T ? T ? 6UT7 3A6N (Silent - 1414z)

5555 1838 - 1903z 03 Jun (In tfc) (Remote Tuner Hong Kong) JPL MON

(In tfc – 1838z) 746D 3NT4 .AUA 3.5N 3N7N (Cont'd – hand sent) IIIII 2P 2P BT BT 5N7N NNU3 45DD 5NN4 73UU 77NT U55U 37A3 (Cont'd 1842z) IIII .. .. BT BT (1847z) AR AR QSL QSL QSL QSL ... KK (1852z) LLL LA L EEE VV *9NSX 9NSX DE 3KNI* .. K (1854z) (Unsure of call signs – hand sent – horrible CW) LLLL LLL (Silent - 1858z)

5555 1626 - 1702z 16 Jun (In tfc) (Remote Eastern Hong Kong) JPL SUN

(In chat – 1626z) R K GA K (1627z) BT BT A43 (1636z) R 68 EEEE 1P K 1644z) 68W K R R 3P K 82W EEEE 82W K (1645z) R *QSL 0045* K R R R AS K (1646z) VVVVVV (Cont'd – 1647z) U AU34 AU34 AU34 AU34 AU34 AU34 AU34 (Silent - 1648z)

5600 1125 - 1133z 03 May (In tfc) (Remote Tuner Siberia) JPL FRI

(In tfc – hand sent – 1125z) BT 5U3N 45A. 7T5A 3N45 DU7T 5AU3 (Cont'd) (Lost tuner @ 1133z)

5632 1727 - 1728z 20 May (In tfc) (Remote Tuner Siberia) JPL MON

(In tfc – very weak - 1727z) 7G *NR 1257 CK .1 98 0521 0100 RMKS 57.3.2 TO 57.383.8 K* (1728z) BT BT ..DN A64U 4T.. DAU7 (Cont'd – 1728z)

5656 1719 - 1721z 20 May (In tfc) (Remote Tuner Siberia) JPL MON

(In tfc – 1719z) HR MSG GA *NR 736. CK 75 8. 0521 0100 RMKS L930 TO L9Y7 BT* 6AD. UVT MU73T AT76 5AN3 5... (Cont'd – 1720z)

5669 1722 - 1726z 20 May (In tfc) (Remote Tuner Siberia) JPL MON

(In tfc – 1722z) MSG NR 4.2 CK *MSG NR 4422 CK ..80 05 1 0100 RMKS 1404 TO * BT BT (1723z) ENT5 TA4N 547T N5AT UNT4 3A7N (Cont'd – 1723z) AR (1726z)

1731 - 1740z 20 May (In tfc) (Remote Tuner Siberia) JPL MON

(In tfc – 1731z) QSL 0128 0128 (1731z) *MSG MSG NR 4423 CK 69 8 0521 0100 RMKS 1404 TO 1401 AR* BT BT 356U .NT3 4AN7 5UD6 T3AU (Cont'd – 1733z) AR (1735z) NW 3 BT OK OK (Silent - 1736z)

5696 1713 - 1718z 20 May (In tfc) (Remote Tuner Siberia) JPL MON

(In tfc – 1713z) *MSG NR 3346 CK 79 48 0521 0100 ..KS 5763029 TO 5773.20 K* (1714z) BT BT UDA3 4D75 N3TU DU7A D547 AD73 (Cont'd – 1714z) AR (Silent - 1718z)

5784 1705 - 1707z 20 May (In tfc) (Remote Tuner Siberia) JPL MON

In tfc – 1705z) EE NR 4419/EX .103 BT A.E9/BTL./CLF9 AR K R K (1706z) EE NR 4419/EX 0103 BT AAE9/BTL9 AR K (Silent - 1707z)

5821 2141 - 2152z 07 Jun (In tfc) (Remote Tuner Eastern Siberia) JPL FRI

(In tfc – 2141z) AR K (2142z) OK OK HA EEE (Silent – 2143z)

6312 0311 - 0328z 07 May (In tfc) (Remote Tuner Siberia) JPL TUE

R CK 145 K (0311z) R QSL 1103 K (Both stations on same freq) R R *NR 539 CK 1.04* R GA BT BT UNN BT BT TUT BT BT BT DCY8 R QSL 1005 K R R F GA BT BT NR *NR 149 CK .1206 K* R GE Q GA BT BT BT 5F.6QK R R QSL 1100 K R R R CQ ? R GA R R AH (0314z) *DE 3FE7* K *DE 3FE7* K (0314z) RR *BGOV *QSA 2 . K VV DE .. R R *HV6T* QSA 2 ? R QSA 2 K R R VV VV VV CQ ? *CQ NR 540 CK 98 CLS 2405 07 .2115 K* (0317z) R GA R R BT BT TATN NNNU TT6N UU4N 53D4 AU4A D373 7TTT 6U34 T47A 7T.5 D64U .6DTU A7N6 (Cont'd – 0318z)(Handsent – very slow) AR K (0322z) R *QSL 0122* K R R SK .. 1 K (0322z) R R AS BT TATN AR R *DE 4...* FE7 QSL .100 RR K R R SK (0323z) R R 5.Q AR K VV (Silent - 0324z)
CQ NR 54O CK 98 CLS 2405 .7020.1115 K* (0326z) BT BT TATN AR K (0326z) R VA VV TMT EEEE SHSH5 46334 56444.46334565EEEEE (Silent - 0328z)

6484 1104 - 1112z 07 May (In tfc) (Remote Tuner Siberia) JPL TUE

(In tfc – 1104z) T734 D..U NTU4 33NU 65NT 6634 5 EEE 6D7A DTA6 7UUN (Cont'd) III III //A NN //A QSL (1109z) N *QSL 1730* K//B *QSL 1856* K (1111z) AKKK (Silent - 1112z)

6774 1031 - 1044z 03 May (In tfc) (Remote Tuner Siberia) JPL FRI

(In tfc – 1030z) UU66 5T47 T65N T547 T75T 67U4 6NUD (Cont'd – Hand sent) (Sends ? when a mistake is made) K (1034z)
7757 ANU.3/46/463A3ADDN.7550 7550 56.. .. (1038z) 5757 ANU.3/463..ADDN. 7550 5646 34D7 AR. VV DD..54UAN N4.. (1039z) 5 75D4 .3568 5DE (1041z)

6825 1053 - 1103z 17 May (In tfc) (Remote Tuner Siberia) JPL FRI

(In tfc – 1053z) AR ??? A5T4 K VV 8DJ EEE VV *8D7J DE J8NF K* R 07W BT ANAU ANAU AR K (1054z) BOZ QSY NR 52 K VV *DL8A DE J8NF K* (1054z) R . WTO 17W BT 73N4 .3N4 K R 57W .. BT TTT.7 N33T AR K (1055z) FM K IEE EEE R 66W EEEE 66W BT UU36 UU36 AR K R GA K (1056z) QSL 1902 K (1102z) LNDW K K (Silent - 1102z)

6829 1033 - 1039z 09 May (In tfc) (Remote Tuner Siberia) JPL THU

(In tfc – 1033z) 337N 3UN5 5T4U .... K (1034z) R 09W TO 022 BT DNA. K ... AR 23W TO 24W BT U.5. N7 AR K (1036z) R ? 88W TO 89W BT 5..N 44D5 AR K R GA K (1037z) R GA (1038z)

6832 1657 - 1702z 20 May (In tfc) (Remote Tuner Siberia) JPL MON

(In tfc – 1657z) NUD7 ND7T U3TN U3.. (Cont'd – 1657z) AR (1658z) FT6D DE .... K (Very noisy) DE AX.8 K (1659z) .... DE *AXN8* K RNIL ... GB .. 1701z)

6848 2200 - 2208z 16 May (In tfc) (Remote Tuner Siberia) JPL THU

(In tfc – 2200z) 3773 6.75 TD3T ..N6 AU37 63U6 A6TA T554 (Cont'd) III BT U3T6 4U3A A77D 6545 6AAT UTT6 (Cont'd – 2202z) AR AR K (2203z)
R BT DDNU DDNU AR K (2204z) R R BT 7DN7 7DN7 AR K R BT NA55 NA55 AR K (2205z) R BT 7U4D 7U4D AR R RPT K R BT 7655 7655 AR R RPT K
R BT BT UDTT UDTT AR K (2206z) R BT A6TA A6TA AR K R BT 7445 7455 AR (2207z) R BT 6T7N UT4TU. TDNN 377. 6575 TD3. N3N6 AU37 63U6 AR K (2207z)
R BT 3A3N 3A3N AR K (2208z) R OK SK (Silent – 2208z)

6852 2017 - 2022z 07 Jun (In tfc) (Remote Tuner Eastern Siberia) JPL FRI

88 *83T DE XDBE* QSL ? K (2017Z) OK AS VV 7YB *7Y6 DE XDBE* QSL ? K OK AS VV *9HUJ DE XDBE* QSL ? K (2019z) VV *65R DE XDBE* QSL ? K OK AS VV *8F5T DE XDBE* QSL ? K (2021z) AALL CHG USB WK (Switched to voice - 2022z)

6862 1642 - 1556z 20 May (In tfc) (Remote Tuner Siberia) JPL MON

(In tfc – 1642z) NR .05/EX 0040 RMKS CQ BT 2UJ1/.3HW AR /BO1C AR NR 1805/EX 0040 RMKS CQ BT 2UJ7/L3HW/BO1C AR
NR 805/ESX 0040 RMKS CQ BT 2UJQ/L35W/BO1. AR CQ T6 *SQTB* *DE 4MHG* K (1643z) R 8EHC 8HIC DE 4MSG K ISMN F.QX DE 4MHG K (1644z)
R R GWM. GW7B GW7B DE 4MHG KR.. AS5S AS5. AS5T I EEE AEEEE AS5T AI5T AS5T DE 4MHG (1646z) KRRRR HRMSG GA HR MSG GA HR MSG GA
MSG NR 1806 CK 81 48 052. 002. RMKS CQ 4.87 BT 5U7D 37T5 ..73 DNA3 DUTA (Cont'd – 1647z) AR (1650z) SQTB SQTB DE 4MHG K NR
8EHC 8ESC 8ESC DE 4MHG K R FVQX FVQX ISMN DE 4MHG K R R GW7B GW7B DE 4MHG K (1652z) NPT K EEE RPT K R R R MSG NR 1.06 CK .1 4 0521 0.5 K
NR MSG NR 1806 CK 81 48 0521 0025 K (1654z) AS5T DE 4MHG KRR SK (Silent – 1655z)

6886 1057 - 1101z 20 May (In tfc) (Remote Tuner Siberia) JPL MON

(In chat – 1057z) *QSL 1842 * QSL 1842 (1058z) K K K QSA 2 UD. QS.... QSL ... QSL 1842 K K (1059z) QSL 1842 K K *MSG NR 22. CK 61 ..1840 BT*
MSG NR .2. CK . 52.. BT MSG NR ... 73 18 02697 NY 64UN ..... (Cont'd – very weak – 1101z)

6938 1040 - 1119z 20 May (In tfc) (Remote Tuner Siberia) JPL MON

R 7G TO U (1040z) CK 7 EE 7GS CK 7GS VV CK (Both stations on same freq) R R CK 7GN CK (1041z) VVV (1042z) VVV YZ. VVVV Q VVV *YZZ9* K QSA .
7G TO U R AS AS NNK (1043z) 7GS K VVV *MNGY* K VVV JKTS ZK K VVV *JKDZ* K K VVV OKDZ K K VVV W....KK VVV JK.Z K K VVV JKDY K K
VVV JKDZ K K VVV .KM VVV JKDZ K BEO KDZ . QSA 2 K QSA . R 7G TO U R 7GS CK (1046z) CK 311 T CK 311 K R R BT AS AS TO U GA R R
*7G NR 323 CK 311 CLS 49 O520 1730 * R M. GA J73O R R BT AR 206D TO (Lost remote tuner – 1048z) AS AS TTT AS AS 8.93 TO 7G 19 BT (1049z)
3A3A .4T6 5U5 A5U3 T5UN (Cont'd – 1050z) (Still in tfc – lost tuner @ 1119z)

7132 1045 - 1052z 17 May (In tfc) (Remote Tuner Siberia) JPL FRI

(In chat – 1045z) VVV VVV VVV MSG NR .. CK VVV MSG NR DIA CK IA AR I. GA BT TK MSG NR DIA CK IA ARE MSG NR DIA CK IA WREE GA BT
MSG NR *MSG NR 4170 CK 61 1* (Lost remote tuner briefly) 4UA3 4AU5 7A3D 57.U (Cont'd) AR (1049z)

7336 1035 - 1037z 17 May (In tfc) (Remote Tuner Siberia) JPL FRI

(In tfc – 1035z) 67.D UA65 D6.7 NA.7 36U. (Cont'd) AR QSL ? K (1037z) R RPT K R OK R SK (1037z)

7523 1037 - 1100z 07 May (In tfc) (Remote Tuner Siberia) JPL TUE

(In tfc – hand sent – very slow – 1037z) 7U44 4NN5 436T AD7U N4D7 3U6U 8UU4 A5N3 73AU (Cont'd – 1038z) III //A (Silent – 1044z)
.GA GA //B (Both stations on same frequency) R 2P 1W BT N6A3 DUA3 D63U D7N6 3D5T U545 7TT7 65TN //A (Cont'd – 1045z) III//A (1050z) RPT OI 3W K//B
83W BT UU56//A R RPT 73W K//B R R G 73 RRR 73W BT NN76//A R GA GA//B R 3P 1W BT A674 N636 //A (Cont'd – 1053z) AR//A R AS AS //B (1053z)
VV TC K //B (1056z) PSE PSE //A R *NR 2003 CK 205 74 0507 1800* //A R GA//B 050. 8435 K// OK//A OK//A HR *NR 09.* OK// QSL .. QSL ..//A QSL 1.01 K//B
R *QSL 1901* //B R HR WK NR ISCK 1125 K K//A HR NR 1125 //B R//B R SK //A R SK//B (Silent - 1100z)

7638 2155 - 2157z 03 Jun (In tfc) (Remote Tuner Eastern Siberia) JPL MON

(In tfc – 2155z) 4UN7 NT.5 T6.A ND34 U... (Cont'd - Mostly U/R)

7753 2143 - 2148z 17 May (In tfc) (Remote Tuner Siberia) JPL FRI

(In tfc) 64 96 0518 05 EEE HR *MSG NR 6394 BT 96 0518 8500 K * BT BT .3TU5 7T3. DT43 T46U (Cont'd- 2144z) (Cranked speed to 50WPM – 2145z) AR (Silent - 2145z)

8051 2003 - 2005z 20 May (In tfc) (Remote Tuner Siberia) JPL MON

(In tfc 0 2003z) 845/EX 0403 BT ..0/NB9 AR NR 1845/EX 0403 BT VB0/NB9 AR NR 1845/EX 0403 BT VB0/NB9 AR QSY 82 QSY 82 V V V (2005z)
(Lost remote tuner – another M89 station is active on 8075)

8056 1447 - 1453z 31 May (In tfc) (Remote Tuner Finland) JPL FRI

(In tfc – 1447z) 3A54 6T7. 43A6 37.. (Cont'd – weak signal) AR QS. ? K (Silent - 1448z) (Another M89 station in tfc on 8069 but to weak to copy)
MSG NR .... 18.4791 TO 186EEE RMKS 1864791 TO 1864291 BT 43DA D..3 A364 ... (Cont'd – lost remote tuner – 2053z)

8069 1106 - 1111z 17 May (In tfc) (Remote Tuner Siberia) JPL FRI

(In tfc – 1106z) R MKS 4521 614 TO .521617 K K (1106z) BT QSBDN2 Q EEEE BT QSB/2 AR K K (1107z) R U E GA EEE U E GA K K (1108z) K K (1108z)
R QSL 1909 K K (Silent - 1110z)

8087 1027 - 1035z 20 May (In tfc) (Remote Tuner Siberia) JPL MON

(In tfc – hand sent – 1027z) AR (1027z) R 23W BT T46U T46U K 60W BT 63U4 63U4 K (1028z) R BT (Silent – 1029z) OK *QSL 0833* K (1033z) OK (1033z)

8136 2025 - 2026z 22 May (In tfc) (Remote Tuner Hong Kong) JPL WED

(In tfc – 2025z) *NR 3703/EX 0424 BT V7M8/K9W J AR* NR 3703/EX 0424 BT V7M8/K9W 1 AR QSY 75 QSY 75 VVV (2026z)

8174 1212 - 1213z 17 May (In tfc) (Remote Tuner Siberia) JPL FRI

(In call up 1212z) *FS97* (x3) VV EE *NR 156./EX .2 BT AY52/CR64/EG.7 AR* NR 1562/EX 2012 BT AY52/CR64/EEEEBT AY52/...EG07 AR OLD QSY O.DVV (Silent 213z)

8178 1210 - 1211z 17 May (In tfc) (Remote Tuner Siberia) JPL FRI

(In tfc – 1210z) /PBR3 AR *NR 152 1/ BT .012 BT C./045/PBL. AR * NR 1521/EX 2012 C. /046E. AR QS. OL. OLD QW... BVV (Silent - 1211z)

8279 1112 - 1120z 17 May (In tfc) (Remote Tuner Siberia) JPL FRI

(In tfc – 1112z) 15341 80 K K K RA BT RMKS *MSG NR 2262 CK 75 94 0517* BT UAT. RKS 1A3E E (1113z) MSG NR 2262 CK 75 94 BT
T5ATD UATTRMKS 153418. MO1534180 K K (1114z) *MSG NR 2262 CK 75 94 0517 2100 RMKS 153418 1E* (1115z) MSG E MSG E MSG METE MSG NR
MSG NR 2262 CK 75 94 0517 210 RMKS 153.1810O153.18. K K (Silent - 1116z)

8345 0904 - 0909z 08 Jun (In tfc) (Remote Eastern Siberia) JPL SAT

(In tfc – 0904z) AN5U 5D4U T4.D 5UT7 (Cont'd – 0905z) AR QSL ? K (0905z) R R (Silent - 0906z)

9055 1215 - 1219z 19 May (In tfc) (Remote Tuner Siberia) JPL SUN

(In tfc – 1215z) 446 34A NUD 77. 437TT577 3N44 5 AA. 3U73 5AU4 T353 4AA3 3T5N 3D4A5 44 63.. 35AU 4T34 34AA 44T6 336N 3U77 A437
(Cont'd – hand sent - running letters together – 1217z) AR AR (Silent - 1218z)

10120 1402 - 1428z 23 May (In tfc) (Remote Tuner Eastern Siberia) JPL THU

(Two other M89 stations in traffic on 10128 and 10131)
(In tfc – 1402z) D6T4 75DN TDA5 TA5D A543 (Cont'd) AR (1404z) RPT 24 BT UDA4 AR (1404z) R R PT 41W BT N573 AR K (1405z) R R S7G EEE RUGA GA S (1406z)
R GA S R GA S (1407z) S *QSL 2212* QSL 2212 S (1412z) R 2220 CK 79 61 0523 2 EEE 2240 K* (1413z)
BT BT BT 5D63 .T7A 7UDT D3.6 TA57 64D5 AN5U (Cont'd – 1414z) (Silent – 1417z) SSU7G .. (1418z) S GA S (1419z) SSI (1422z) R R 4W K AS RPT .0 K K (1423z)
R RPT 35 UM S RPT 46W K (1424z) R RPT 60W K R RPT 071 U K R *QSL 2225* QSL 2225 K (1425z) R 7G GA K (1125z)
R 7G GA *NR 2211 CK 79 EEEE 21 CK 79 56 0523 2240* S (1426z) BT BT (Into tfc – 1427z)

10168 1706 - 1710z 24 May **2JYT** (In tfc) (Remote Tuner Eastern Siberia) JPL FRI

(In tfc – 1706z) *DE 2JYT* K R K K *OK* *X... DE 2JYT* K R K (Silent - 1707z)

10201 0917 - 0926z 08 Jun (In tfc) (Remote Eastern Siberia) JPL SAT

(In tfc – 0917z) N3D3 AD5T A764 ..7N 763D AR K (0918z) GA GA (0919z) GA (0920z) R *QSL 182. K* (0925z) UP. . K UP. SK K (0925z – lost tuner)

10296 2122 - 2138z 03 Jun (In tfc) (Remote Tuner Eastern Siberia) JPL MON

(In tfc – Machine sent -2122z) 3UT4 754. 543D 47NU D5TU UT.3 (Cont'd – Signal weak) K (Silent - 2125z) 7G . BT BT 6D74 DUAN N7D3 3TUA 3N7D 73ND 5TN3 3AUN
AR AR AR K (2127z) R OK U MSG GA (2128z) R GA (2132z) R G AGA (2132z) R OK QSL *QSL 0537 K* (2136z) R USB ISB WK WK K (2137)
(Switched to voice but very weak – 2138z)

10239 0812 - 0816z 18 May **TK2E** (Remote Tuner Siberia) JPL SAT

(In call up – 0812z) *TK2E* (Cont'd – 0812z) HFF NR 1700/EX1615 BT S3/YJ9 AR NR 1700/EX1615 BT S3/YJ9 AR NR 1700/EX1615 BT S3/YJ9 AR
QSY 19 NR QSY 19 NR VVV (Silent - 0814z)

10268 1019 - 1024z 17 May (In tfc) (Remote Tuner Siberia) JPL FRI

(In tfc – 1019z) DNA6 6A54 36.4 3ADT (Cont'd) AR K (1022z) R R OK OK (Switched to voice – 1023z)

10336 1712 - 1713z 24 May **2JYT** (In tfc) (Remote Tuner Eastern Siberia) JPL FRI

(In chat - 1712z) MSG NR 6. AGN *MSG NR 6.67 CK * (Lost remote tuner – 1713z)

10371 0207 - 0216z 07 Jun (In tfc) (Remote Tuner Eastern Siberia) JPL FRI

(In tfc – 0207z) ATU6 3T75 AR K (0207z) 54TA 54TA AR AR (0208z) BT 3N6A 3N6U AR K MK.. (0209z) GA (0210z)
(Another M89 station in tfc on 10391) *QSL 11.6 K* (Very weak signal now – Silent - 0214z)

10386 2006 - 2007z 07 Jun (In tfc) (Remote Tuner Eastern Siberia) JPL FRI

(In tfc – 2006z) *MSG NR 1622/EX 0507 BT* P4/.3 CQ QSY NR 04 QSY NR 04 V (Silent – 2007z)

10420 0227 - 0240z 17 May (In tfc) (Remote Tuner Siberia) JPL FRI

(In tfc – 0227z) *MSG NR 3149 CK 79 58 0517 0950 BT* K (0228z) R R (0229z) BT BT BT UDA3 3T4D U5TN DN73 47ND 7A64 T5D3 D6UA 543N 3AU7
4N37 3ATD 3.AD 7NTD 6NAD N3UT N354 UN35 UAT3 U563 AD7N N3AD U3T7 5NA6 N4A. 6A35 7U6T 64U3 T43N A57D
TD7U 4NAD 67U4 53TA 6N43 A6N7 5TD3 AN7U AND7 U54A NU34 743N 4T75 67U3 7D54 467U TND4 TDN7 AN36 DUAN
ND3U ATUD 56TA T76A D475 3UD5 5473 ND65 3D74 5NU3 643U 3AU4 4AN7 TA54 U67D 3UD6 6ND4 T4A3 AUNT TNU6
5674 D4NT 63U5 D7TN 3NT3 743U UTAD 4N67 UN45 AR K (0233z) R BT BT UDA3 3T4D U5TN DN73 47ND 7A64 T5D3 D6UA 543N 3AU7
4N37 3ATD 3TAD 7NTD 6NAD N3UT N354 UN35 UAT3 U563 AD7N N3AD U3T7 5NA6 N4AD .A3. 7U6T 64U3 T43N A57D AR K (0236z) R R R R OK K (0238z)
R SK SK SK (0239z)

10456 0303 - 0315z 05 Jun (In tfc) (Remote Tuner Eastern Siberia) JPL WED

(In tfc – 0303z) *37. 605 00 .... 686.519 TO ...* BT 6AND A46D UA73 6... (Cont'd – 0304z) AR K (0306z) EEE R U GA (0306z) U GA (0308z) RPT 1 EEE RPT 1W K (0311z) R *QSL 1122 K* (0311z) R *MSG NR 120 . CK ... 0605 1. RMKS 6865519 TO 6865.16 K* (0312z) BT 64T ? 64T7 6NUT AU3. 3TU. 436T (Cont'd – 0313z)

10456 0216 - 0228z 07 Jun (In chat) (Remote Tuner Eastern Siberia) JPL FRI

(In chat – 0216z) R RPT 62W K (0217z) RPT AS (0218z) RPT QSL K EEE R GA (0218z) R GA (0219z) R RPT .. (0223z) RPT ... RPT .. TO 2.. K (0224z) RPT 1.. R W.. K (0225z) R RPT 32W K RPT .3W K (0226z) R QSL 11.. K KPKP K (0227z)

10456 1234 - 1258z 07 Jun (In chat) (Remote Tuner Eastern Siberia) JPL FRI

(In tfc – 1234z) BT 444 A3U4434 U4444 BTBT U3S345UN .74 4.. (Hand sent – horrible CW – 1235z) BT BT A4U3 U345 ? ... (1237z) 4P 5A3U 747D 5D3N (1238z) AR (1241z) BT A2U2 ... (Cont'd – 1242z) (Silent – 1252z) BT U3U3 45UD 474A 6NND 36.. (Cont'd – 1253z) 3U4T (Cont'd - 1257z)

10479 1717- 1735z 24 May (In tfc) (Remote Tuner Eastern Siberia) JPL FRI

(In tfc – 1717z) D76A DUNA D54T T45U A57T T7U (Cont'd) K (1718z) R BT UTAN AR K R R R R BT BT AT7U AR K (1719z) R R BT 463U K
R R BT A7DN AR K (1720z) R R RR GA K (1720z) R GA K (1721z) R R NH PT 75W K (1726z) R R RPT 75W K R R *QSL 0126 K* (1726z)
R R MSG NR 6340 CK 80 37 0525 0100 BT K *R R RMKS 3128720 TO 3128729 BT* BT D736 5U6D N3.. (Cont'd – 1728z) K (1732z) R R BT AU34 CK (1733z)
R R BT BT ATN4 AR K R R BT 7AD3 AR K R R BT BT ATN. AR K R R R (Silent - 1734z)

10528 0305 - 0335z 04 Jun (In tfc) (Remote Tuner Eastern Siberia) JPL TUE

(In tfc – 0305z) DUA6 ADU6 6T3D DN37 TU73 AR K (0306z) OK U GA (0307z) (Another M89 station in tfc on 10536) OK *QSL 1115 K* (0311z)
QSL 1115 QSL 1115 K (0312z) OK QSL 111. HR MSG GA CY K (0312z) *MSG NR 4066 CK 61 37 0604 104. RMKS 686.16 TO 6865519 K *(0313z) BT
43AU 5D46 6354 D53A NU.A 6U73 5643 D46. (Cont'd) AR K (0316z) RPT R RPT 35W BT 3 EEE RPT 35W BT 4398 4398 AR K (0317z) R RPT 38W BT 67.3 6783 AR K
QSL 1 EEEE FM 5III EEEE *QSL 1117* K (0318z) OK U GA GA (0319z) OK *QSL 1122* QSL 1122 K (0322z) R
MSG NR 4067 CK 61 28 0604 1040 RMKS 68.5516 TO 6865519. (0322z) BT 43TD 6AUD N7DA TN3A 36NU 453A 6DT5 534A 635U (Cont'd) AR K (0325z)
R RPT 53W BT 5241 5241 AR K (0326z) OK OK OK OK (Silent - 0327z)

10528 0315 - 0323z 05 Jun (In tfc) (Remote Tuner Eastern Siberia) JPL WED

(In tfc – 0315z) MSG NR 4125 CK 61 28 0605 RMKS 6865516 TO 6865519 K (0316z) R *MSG NR 4125 CK 61 28 0605 1040 RMKS 6865516 TO 6865519 K* (0317z) R BT
4AND 7D7A D3A4 65AN DNA5 3... (Cont'd – 0317z) (This appears to be the other end of the station on 10456) AR K (0320z) QSL 120 K R R (0321z – Silent)

10549 1811 - 1818z 15 May (In tfc) (Remote Tuner Siberia) JPL WED

(In tfc – 1811z) 536T N35T T473 AUNT (Cont'd) AR (1813z) R GA GA (1813z) GA GA (1814z) NR QSL 0213 K (1816z) NR . K (Silent – 1816z)

10585 2205 - 2208z 07 Jun (In tfc) (Remote Tuner Eastern Siberia) JPL FRI

(In tfc – 2205z) N6U7 56UD 43T. A3ND A3.. (Cont'd – 2206z) AR QSL ? K (2207z) R OK (2208z) OK (Switched to voice – 2208z)

10596 1816 - 1820z 07 Jun (In chat) (Remote Tuner Eastern Siberia) JPL FRI

(In tfc – hand sent – 1816z) U3NA ..U4 A.5N AN6U (Cont'd) AR AR K (1817z) R OK R K R K (1819z) BOZU. WK ? K (Silent - 1820z)

10641 1703 - 1705z 24 May (In tfc) (Remote Tuner Eastern Siberia) JPL FRI

RMKS 9687 TO 9689 K K (1703z) R R BT 56ND (Stopped – 1703z)

10811 0225 - 0227z 05 Jun (In chat/tfc) (Remote Tuner Eastern Siberia) JPL WED

(In chat – 0225z) OK* QSL 1025 K* R MSG N EEEE** *MSG NR 0..RK..59 01020 RMKS EEEE RMKS 68652.9 TO 6865245 K (0226z)* R N BT**
6..75ND A546 D... (Cont'd – very weak – 0227z)**

10827 0821 - 0822z 18 May (In tfc) (Remote Tuner Siberia) JPL SAT

(In tfc – 0821z) 1621 BT SC 1/C6 AR E NR 1702/EX 1621 BT SC1/C6 AR QSY 17 QSY 17 VVV (Silent – 0822z)

10836 0203 - 0222z 05 Jun (In chat/tfc) (Remote Tuner Eastern Siberia) JPL WED

(In chat – 0203z) *QSL 1005* K (0203z) R HR MSG GA MSG NR 4120 CK 79 19 04... *MSG NR 4120 CK 79 19 0406 0950 K* R BT BT
37.5 ..4U 4T73 75.3 6UN4 (Cont'd – fading badly at times – 0205z) AR K (0208z) R N RPT 68W 0742 ..42 K (0209z) R OK U GA K EEEE U GA K R GA (0210z)
R OK (0214z) OK *QSL 1015* QSL 1015 K R AS AS (Silent - 0215z)

10866 2015 - 2016z 22 May (In tfc) (Remote Tuner Hong Kong) JPL WED

(In tfc – 2015z) 6/EX 0412 BT 68C2T/Q2Q4 AR *NR 1956/EX 0412 BT 68C2T/Q2Q4 S AR* NR 1956/ESX 0412 BT B8C2T/Q2Q4 S AR QSY LW QSY LW VVV (2016z)

10953 1428 - 1440z 31 May (In tfc) (Remote Tuner Finland) JPL FRI

(In tfc – 1428z) T3A6 NT.4 UT76 T3.N T5D3 A4U5 DU3. (Cont'd) AR K (1429z) R OK .S (1430z) R GA (1430z) R GA (1431z) R AS AS (1435z) QSL ... GB (1438z)

10955 1641 - 1651z 24 May (In tfc) (Remote Tuner Eastern Siberia) JPL FRI

(In tfc – 1641z) 5743 465D N637 547A 35N4 N.7U 3ND7 4D7N A7D6 (Cont'd) R OK AS VV *DLJ3* DLJ3 K (1644z) R OK AS VV *7D4E* 7D4E K (1645z)
R OK AS AS (Silent – 1645z)

11088 2111 - 2112z 11 Jun (In tfc) (Remote Eastern Russia) JPL Tue

(In tfc – 2110z) U6T4 N5DA 5U6T 4U5D 3UA7 TU64 UN34 3N4U U6DA .6D3 N73A (Cont'd) AR QSL ? K (2113z) OK U GA (2114z) ... K (2117z)
(A very weak M89 station is in tfc on 11093) OK *MSG NR 2047 CK 65 65 0612 0500 RMKS 2549... TO 2549385 BT* ANUD 5634 (Cont'd – 2118z – Lost tuner @ 2119z)

11126 2038 - 2026z 22 May (In tfc) (Remote Tuner Hong Kong) JPL WED

(In tfc – 2038z) /EX0436 .. CQ BT SD9 BT EEEE BT SD9/4T AR *NR 1113/EX 0436 RMKS CQ BT SD9/40 AR * VVV *4RF5* K UKP VVV 8UHB *8UHB* K (2039z)
QSA ? K R K U KP VV *YSJ7* YHJ7 K (2040z) OK U VV *3ED.* K OK U K P VV *TGSTY *TGHY K (2042z) (Lost tuner)

11126 1652 - 1701z 24 May (In tfc) (Remote Tuner Eastern Siberia) JPL FRI

(In tfc – 1652z) 3DU3 UN3D D5N6 376N D.A7 A7TN (Cont'd) AR (1653z) VV *4RF5* ... K QSL 0053 K VV *8USB* 8USB K (1653z) RPT .. VV JM.. *JMNU* K
OK SP VV *5TGY* 5TGY K R QSL ? K OK RP VV *YHJ7* YHJ7 K (1655z) R ... VV *3EDF* 3EDF K OK .... *TGHY *K
OK HR WU *NR 1641 8688* HR WU NR 1641 8688 K (Silent - 1657z) SU (1700z)

11135 1315 - 1316z 18 May (In tfc) (Remote Tuner Siberia) JPL SAT

(In tfc – 1315z) R *QSL 2115* QSL WC NR P K//A R WK NR 10 K//B R NIL SK//A R NIL SK//B (Silent – 1316z)

11150 0825 - 0827z 18 May (In tfc) (Remote Tuner Siberia) JPL SAT

(In tfc – 0825z) 22 BT UF1/B2 AR E NR 1458/EX1622 BT UF1/B2 AR E NR 1458/EX1622 BT UF1/B2 AR QSY NR 19 QSY NR 19 VV (0827z)

11155 0827 - 0858z 18 May **CT5M** (Remote Tuner Siberia) JPL SAT

L52M L52M (Cont'd – 0827Z) E NR 1459/Ex1625 BT TS2/A8 AR E NR 1459/EX1625 BT TS2/A8 AR E NR 1459/EX1625 BT TS2/A8 AR SK SK (0829z) *LKY5* LKY5 LKY5 (00833z) *LKY5 DE CT5M * *3CB2* K R QSA 2 ASVV *DLJ3* K (0833z) R QSA 2 AS VV *7D4E* K (0834z) R QSA 2 AS VV *2UB8* K R QSA 2 AS VV *BS7F* K R QSA 2 AS VV *JT8B* K (0835z) R QSA 2 AS VV *3KMJ* K R QSA 2 AS *LKVG* AR VV 3CB2 K (0836z) R OK AS VV DLJ3 K R OK AS VV 7D4E K (0837z) R OK AS VV 2UB8 K R OK AS VV 6S7F K (0838z) R OK AS VV JT86 K R OK AS VV 3KMJ K (0839z) R OK AS HR E GA CYHR WK NR 45193774 45193774 E *NR 1460/EX1640 EEEE RMKS CQ BT J6/N5 AR* E NR 1460/EX1640 (Lost tuner briefly) E nr 1460/EX1640 RMKS CQ BT J./N. AR (0841z) VV 3CB2 K R OK AS VV DLJ3 K (0842z) R OK AS VV 7D4. K R OK AS VV 6S7F K R OK AS VV JT86 K (0843z) R OK AS VV 3KMJ K R OK HR CQ MSG GA CY *MSG NR 1461 CK 71 75 0518 1630 RMKS CQ BT* A5U7 5T.. (Cont'd) AR (0849z) 3CB2 K R OK AS VV DLJ3 K R OK AS VV 7D4E K NO K AS VV 2U68 K (0851z) R OK AS VV 6S7F K R OK AS VV JT86 K R OK AS VV 3KMJ K R OK AS AS (0854z) ALL STN ALL STN HR NIL SK SK 203 203 (0858z)

11163 1306 - 1327z 18 May (In tfc) (Remote Tuner Siberia) JPL SAT

(In tfc- 1306z) NR 6253 CK 69 17 0518 0900 (1306z) *MSG NR 6253 CK 69 17 0518 0900 BT* 557A 336N N.DU 337N 3TTA NT44 44ND DNN5 (Cont'd – 1307z) BT 55T4 K (1310z) BT 55T4 K BT 566D K BT 566D K BT TTTN K BT NN6A K BT 4655 K BT 4677 K R GT (1313z) RPT TZS QSD ? K GM GA GA (1314z) GA GA (1323z) (Lost tuner @ 1327z)

11203 0251 - 0336z 17 May (In tfc) (Remote Tuner Siberia) JPL FRI

NR 1539 CK 71 80 0517 1040 RMKS 6882 868 68072 865 K (0251z) A76D 5AUD 4T6D TNA7 3TU7 U35N 7NAT (Cont'd – 0252z) (In tfc – 0317z) AR (0318z) OK U 7ORA K (0318z) OK GA (0319z) *QSL 1124 K* (0323z) QSL 1124 K KP KP (0324z) *.... DE VT4M K* (0329z) (Unsure of call sign – hand sent – poor CW) OK QSA 2 K QSA 2 K KP KP (0330z) VA VA (0330z)

11214 0234 - 0240z 10 Jun (In tfc) (Remote Eastern Siberia) JPL MON

(In tfc – 0234z) 3A5D 6NA3 6TU7 ND7U 3746 7U4N AN74 3A67 AR K (0235z) R K RPT 6.W BT .1.7 3167 AR K OK UH. WK NR K UUHR WK NR ? K (0236z) UHR KW NR ? K OK OK (0237z) SK SK (0239z)

11231 0243 - 0246z 17 May (In tfc) (Remote Tuner Siberia) JPL FRI

(In tfc – 0243z) A7N5 743T 5D74 6A5T (Cont'd) AR (0244z) BT .... K NR 33 .. 43 K (0245z) R 75W BT A7N5 A7NR K NR 50.. 53D .. K OK ... GA (0246z)

11244 0247 - 0316z 17 May (In tfc) (Remote Tuner Siberia) JPL FRI

*MSG NR 2239 CK 75 76 0517 1040 RMKS 6882 8616 8828 67 K *(0247z) OK BT BT BT A5D4 TUN7 D53N TAU5 .D3 3T.DA6NU 6DAN U5T3 4U54 (Cont'd - 0250) (In chat – 0310z) DK 110 K OK MSG NR 2241 CK 75 76 0571 040 EEEE *MSG NR 2241 CK 75 76 0517 1040 RMKS 6882 8616882867 K* (0312z) BT BT AU47 DU47 D4AT 45A. (Cont'd – 0213z) AR K (0315z) OK U GA (0316z)

11263 0253 - 0310z 17 May (In tfc) (Remote Tuner Siberia) JPL FRI

(In tfc – 0253z) BT AUND 3N4A A3TU 367D .DU4 UT56 AD.. (Cont'd – 0254Z) AR AR (0310z)

11266 2141 - 2147z 03 Jun (In tfc) (Remote Tuner Eastern Siberia) JPL MON

(In chat – 2141z) *QSL 0537* QSL 0537 K (2142z) (Same QSL as the station on 10207 at 2136z) OK KP KP OK (Silent - 2143z)

11296 0319 - 0321z 17 May (In tfc) (Remote Tuner Siberia) JPL FRI

(In tfc – 0319z) AR (0320z) R GA (Silent - 0321z)

11318 1018 - 1022z 20 May (In tfc) (Remote Tuner Siberia) JPL MON

(In tfc – 1018z) U7D6 N3D4 67U5 UAN4 (Cont'd) AR K (1021z) OK OK (Silent – 1022z)

11324 0248 - 0252z 10 Jun (In tfc) (Remote Eastern Siberia) JPL MON

(In tfc – 0248z) *55061 170 RMKS 25497.. Eee RMKS 2549795 TO 2549792 K* BT UNTA 7.. 357. 64.. (Cont'd – much weaker than other station on 11271) AR (0252z)

11324 0259 - 0314z 10 Jun (In tfc) (Remote Eastern Siberia) JPL MON

(In tfc – 0259z) A4UT 675A 3A47 7T3? (Cont'd) AR AR K K OK U GA (0259z) (Unable to find other station) OK *QSL 1104* 1104 K K OK MSG *MSG NR 8310 CK 61 70 0610 000. RMKS 1675715 TO 1675713 K* K (0305z) BT A3DU 34NU U..3D ... (Cont'd) AR K K (0308z) RPT 50W BT ATD3 K OK HW RPT ... BT 3A.6 .. .. OK U GA (0310z) MN OK (0311z) (Lost remote tuner @ 0314z)

11324 1244 - 1251z 10 Jun (In chat) (Remote Eastern Siberia) JPL MON

(In chat – 1244z) QSL 2043 K R QSL 2044 QSL 2044 K (1245z) R QSL 2044 QSL 2044 K QSL 2043 K R QSL 2044 QSL 2044 K (Silent - 1246z) (Appears to be a number of stations QSLing for a message) (Another M89 station active on 11238) (Yet another M89 station active on 11220) (Lost remote tuner at 1251z)

11356 0904 - 0926z 18 May (In tfc) (Remote Tuner Siberia) JPL SAT

R GA (0904z) R RPT 10W (0909z) R RPT 75 K OK *QSL 1714* QSL 1714 K (0910z) AS MSG CY *MSG NR 2706 CK 75 29 0518 1700 RMKS Z257 TO 254* R BT 703 3714 6150 7DN5 6NAD 5643 (Cont'd – 0812z) RPT CY RPT CY *MSG NR 2706 CK 75 34 0518 1700 RMKS Z257 TO 7254 K* (0914z) R BT A7N5 D63T U63T 3U5A D735 D5T3 754D (Cont'd – 0914Z) AR K (0917z) RPT R RPT 10W BT 1423 AR BT 1423 AR K *QSL 1721* K (0918z) GA (0919z) RPT NR GA (0920z) RPT 10W (0923z) QSL 1726 QSL 1726 K (0924z) R *MSG NR 2708 CK 75 14 0518 1700 RMKS Z257 TO Z253K* BT A3DT U7D4 A56T (Cont'd – 0925z)

12481 0233 - 0259z 05 Jun (In chat/tfc) (Remote Tuner Eastern Siberia) JPL WED

(In chat – 0244z) IEC BT POXV AR K R OK N EEE SR WK NR ..65 ..2 K (0245z) OK HR *MSG NR 211. CK .1 0 0605 1040 RMKS 686719 TO 686.716 K *(0247z) C.. BT 674. TT... (Cont'd – weak - 0248z) AR K (0250z) R R. . BT .7.. BT 674. AR K R 674D AR BT 6.4D AR K OK GA (0251z) OK GA (0252z) R R R RPT .W K (0255z) R R QSL 10.. *QSL 1057 K* (0256z) R R *MSG NR 0111 CK 61 70 .... 046 RMKS 6.817 TO 6855.16 K* (0257z) BT BT ... 6.. ... (Fading – 0258z)

M89 Regular Logs

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

3300//NRH 1435- 1436z 01 May V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong) JPL WED
1646- 1647z 01 May V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong) JPL WED
1328- 1330z 02 May V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong) JPL THU

(In tfc – 1328z) /084/2200/237 NR/..4 AR (Return to R/S 1329z)

1045- 1046z 03 May V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Siberia) JPL FRI
1255- 1256z 05 May V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong) JPL SUN
Note: 2SLC has changed call sign again! Has previously used this call sign.
2114- 2119z 05 May V 8CPZ (x3) DE XW6W (x2) (Cont'd) (Remote Tuner Hong Kong) JPL SUN
1136- 1137z 06 May V 8CPZ (x3) DE XW6W (x2) (Cont'd) (Remote Tuner Hong Kong) JPL MON

	1114 - 1119z	07 May	V 8CPZ (x3) DE XW6W (x2) (Cont'd) (Remote Tuner Siberia)	JPL	TUE
			(In tfc – 1114z) II BT 4DNN (Silent - 1115z) (Return to R/S – 1118z)		
	1425 - 1428z	07 May	V 8CPZ (x3) DE XW6W (x2) (Cont'd) (Remote Tuner Siberia)	JPL	TUE
			(In tfc - 1425z) GA *CQ63 RMKS 8504 TO 5973 UGT COMM ARS BT* 84364/5973/2300/237NR/8504 BT 84364/5973/2300/237NR/8504 AR BT 84364/5973/2300/237NR/8504 AR AR AR AR (1428z) (Return to R/S – 1428z)		
	1647 - 1648z	07 May	V 8CPZ (x3) DE XW6W (x2) (Cont'd) (Remote Tuner Siberia)	JPL	TUE
	2010 - 2011z	07 May	V 8CPZ (x3) DE XW6W (x2) (Cont'd) (Remote Tuner Siberia)	JPL	TUE
	1415 - 1416z	08 May	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	1427 - 1431z	08 May	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
			(In tfc – hand sent – 1427z) 29 UGT COMM BT 84364/8729/2300/237NR/8504 AR BT 843054/8729/2300/237NR/8504 AR BT 84384/8729/2300/237NR/8504 AR AR (1429z) (Return to R/S – 1429z)		
	1125 - 1127z	09 May	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Siberia)	JPL	THU
	1245 - 1246z	09 May	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	2013 - 2019z	11 May	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
	1555 - 1556z	12 May	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Siberia)	JPL	SUN
	1057 - 1119z	13 May	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1806 - 1807z	15 May	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	1216 - 1217z	16 May	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Siberia)	JPL	THU
	1159 - 1200z	17 May	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Siberia)	JPL	FRI
	1906 - 1907z	17 May	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	1826 - 1827z	18 May	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
	2111 - 2112z	18 May	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
	1450 - 1451z	19 May	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Siberia)	JPL	SUN
	1711 - 1719z	19 May	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	1809 - 1810z	20 May	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Siberia)	JPL	MON
	1738 - 1739z	21 May	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	2111 - 2112z	21 May	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1944 - 1945z	23 May	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Eastern Siberia)	JPL	THU
	1100 - 1104z	24 May	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
			Note: Switched from day time to night time frequency		
	1630 - 1631z	24 May	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	1605 - 1606z	29 May	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	2045 - 2046z	29 May	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	1710 - 1711z	30 May	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	2011 - 2012z	30 May	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	2009 - 2010z	31 May	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
3642//NRH	2008 - 2009z	11 May	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	SAT
	1624 - 1625z	17 May	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	FRI
	1942 - 1943z	23 May	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Eastern Siberia)	JPL	THU
	2025 - 2026z	31 May	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	FRI
3642//5230	1642 - 1643z	01 May	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	WED
	1512 - 1513z	02 May	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	THU
	1903 - 1904z	17 May	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	FRI
	1707 - 1708z	19 May	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	SUN
3642//7602	1649 - 1650z	07 May	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	TUE
	1740 - 1741z	21 May	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	TUE
	2115 - 2116z	21 May	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	TUE
3642//7698	1741 - 1742z	24 May	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Eastern Siberia)	JPL	FRI
3797//4512					
(3797 only)	1431 - 1432z	01 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
(3797 only)	1649 - 1650z	01 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	1327 - 1328z	02 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Hong Kong)	JPL	THU
	1303 - 1304z	05 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	2112 - 2113z	05 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	1136 - 1137z	06 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1432 - 1433z	07 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	WED
	1651 - 1652z	07 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	WED
	2013 - 2014z	07 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	WED
	1418 - 1418z	08 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	1242 - 1243z	09 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	2012 - 2013z	11 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
(3797 only)	1554 - 1555z	12 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	SUN
	1051 - 1052z	14 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	TUE
(3797 only)	1801 - 1802z	15 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	1220 - 1221z	16 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	THU
	1830 - 1831z	18 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
	1228 - 1229z	19 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	SUN
	1709 - 1710z	19 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	1834 - 1835z	20 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	MON
	1736 - 1737z	21 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1357 - 1358z	22 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
(3797 only)	1947 - 1948z	23 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
(3797 only)	1107 - 1108z	24 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI

	1632 - 1634z	24 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	1944 - 1945z	28 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1606 - 1607z	29 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	2048 - 2049z	29 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
(3797 only)	1712 - 1713z	30 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	2013 - 2014z	30 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	2011 - 2012z	31 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
4225//5500	1429 - 1430z	01 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	1625 - 1626z	01 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	2108 - 2109z	05 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	1134 - 1135z	06 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
(4225 only)	2239 - 2240z	12 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	1010 - 1013z	13 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON

In tfc – 1010z) 8 AR VV TC6 BT 1929/07 EEEE TC6 VV TC6 BT BT 1924/0900/56/8731 AR TC7 VVV TC7 BT BT 1638/1440/96/8738 AR (Return to R/S – 1012z)

	1343 - 1344z	14 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1703 - 1704z	19 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	1734 - 1735z	21 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	2117 - 2118z	21 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
4474//NRH	1907 - 1908z	17 May	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	FRI
	2115 - 2116z	18 May	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
4590//7607	1433 - 1434z	01 May	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
(7607 only)	1627 - 1641z	01 May	V WITN (x3) DE (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED

Note: Problems with R/S V WITN (x3) DE (x2 and sometimes x3)

VV (1632z) VVV HR *SVC GA NR 17 0030 RMKS 5237 TO 5677/5299 BT* CO EEEE BT SVC QRW 5297 QRW L18 5677 0200 COMM 6327 AR AGN NR 17 0030 RMKS 5237 TO 5677/5297 BT SVC QRW 5297 QRW L18 5677 EEEE BT SVC QRW 5297 QRW L18 5677 0200 COMM 6327 AR QSL? HR WK NR 18 (1635z) (Return to R/S – Still having problems with R/S)

	1325 - 1326z	02 May	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	2010 - 2011z	11 May	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
(7607 only)	2240 - 2241z	11 May	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
	1352 - 1353z	14 May	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	2144 - 2145z	14 May	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Philippines)	JPL	TUE
	1119 - 1120z	15 May	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Siberia)	JPL	WED
	1802 - 1803z	15 May	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Siberia)	JPL	WED
	1905 - 1906z	17 May	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	1825 - 1826z	18 May	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
(7607 only)	1230 - 1231z	19 May	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Siberia)	JPL	SUN
	1705 - 1706z	19 May	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	1732 - 1733z	21 May	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	2113 - 2114z	21 May	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1352 - 1353z	22 May	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	1946 - 1947z	28 May	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1607 - 1608z	29 May	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	2049 - 2050z	29 May	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	1714 - 1715z	30 May	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	2017 - 2018z	30 May	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
(7607 only)	1441 - 1442z	31 May	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Finland)	JPL	FRI
(7607 only)	1723 - 1724z	31 May	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Finland)	JPL	FRI
(7607 only)	2027 - 2028z	31 May	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
4860// 6840	1620 - 1625z	01 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	WED
	1320 - 1325z	02 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	THU
	2120 - 2125z	05 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	SUN
(6840 only)	1921z	06 May	VVV Q2M Q2M Q2M de NYZ NYZ	FN	MON
(6840 only)	2120 - 2125z	06 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Siberia)	JPL	MON
	1420 - 1425z	08 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	WED
	2020 - 2025z	11 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	SAT
	1520 - 1525z	15 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	WED
(6840 only)	1825z	15 May	VVV Q2M Q2M Q2M de NYZ NYZ	FN	WED
	2220 - 2225z	16 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	THU
	2120 - 2125z	18 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	SAT
	1720 - 1725z	19 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	SUN
(6840 only)	2120 - 2125z	21 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	TUE
	1920 - 1925z	28 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	TUE
	1720 - 1725z	30 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	THU
	2020 - 2025z	31 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	FRI
5230//NRH	1518 - 1527z	02 May	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (// Not monitored) (Remote Siberia)	JPL	THU

(In tfc – 1518z) D444 7777 N3NN N444 N5NN D333 D7DD 7555 A666 TDDD U44. TTTN 4555 AAA3 UAAA NNNU 6666 TTTU 4AAA 444T 366 6 3AAA 34.. 66D6 NNUN U555 AAAD TTTN 7DDD .A? .DDD 4555 DD5D UUUU D444 A7AA UAUU NDDD 4555 AAAA 3UUU 4T44 ? 4T44 3A33 A777 A333 NNN3 NANN 333A ANU3 II I BT BT DNDD 6656 .U3 5T53 TTDT UAUU UUU.. 66N6 555. UAUU N5NN N444 3U.3 N..NN DDTN DDD4 AUUU 3533 NDNN D.D4 A3AA 4N44 TTTT UAAA 4464 AR QSL ? HR WK NR 230 (1524z) (Return to R/S – 1525z)
(Looking at the above message, there appears to be a lot of repeated cut numbers. Normally quite randomized, but this message appears to not be)

	1804 - 1805z	15 May	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	WED
	1716 - 1717z	30 May	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	THU
	2016 - 2017z	30 May	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	THU
5230//7602					
(7602 only)	1842 - 1843z	06 May	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	MON

(7602 only)	1917z	06 May	V DKG6 DKG6 DKG6 de 3A7D 3A7D	FN	MON
	2140 - 2141z	06 May	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	MON
	2039 - 2040z	30 May	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Russia)	JPL	THU

5278// NRH

5558/NRH	1018 - 1028z	12 May	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN

(In tfc – 1016z) II BT .5UA (This appears to be a new message not previously heard by this monitor) (Return to R/S 1026z)

	1026 - 1057z	13 May	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	0954 - 1013z	14 May	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE

VVV GA CQ63RORE RO AS (1008z) 700 ? 708400 MD764 500 14 5484/850A? 8504 EEE 2A K PARES BT
84364/1930/6100 ER NR. 7084 AR BT 8 BT 83363/1930/610/NR/7084 AR BT 83364/1930/610NR/7084 AR AR (1010z) (Horrible CW operator!)

	1351 - 1352z	14 May	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1029 - 1037z	15 May	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	1025 - 1026z	22 May	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	1400 - 1405z	22 May	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED

(In R/S – switch to msg – hand sent – horrible CW – 1400z) VVV EEE CQ6 RMKS 8504 TO 8729 .. /8.9 BT VV M64/87/ BT
64/8729/22.0/237N/8504 AR BT 84464/.729/22.0/237//8504 BT /85.4W (1401) (Return to R/S – 1402z)

5588//NRH	0937- 0938z	02 May	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	0957 - 0958z	08 May	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	1020 - 1035z	08 May	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED

(In tfc – 1020z) AU.U 7NT5 3A76 3T6A DTDN (Cont'd) II BT **3T4.** AR (1032z – Return to R/S)
(When referring to my Mar/Apr 2SLC message detail chart, one of the repeating messages ends with **3T4U**)

	1012 - 1013z	09 May	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Siberia)	JPL	THU
	1100 - 1125z	09 May	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Siberia)	JPL	THU

(In tfc – 1100z) TDA5 N36T T6A3 NDUT 36AD 3A6D (Cont'd – 1101z) III BT 4DNN *MSG NR 036 CK 301 44 0509 1900 BT*
377D .T7U 745T T4T7 NADA AN6U 376T U56D TT7. TTT3 TDA5 (Cont'd – 1113z) III BT 4DNN (1125z)
(Message checked with previous messages sent and has not been previously sent) QSY QSY QSY (1125z)
(Changed from day to night frequency of 3300 – Return to R/S)

	1012 - 1019z	17 May	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	1226 - 1227z	19 May	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Siberia)	JPL	SUN
	1059 - 1100z	24 May	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
5801//10180	1335 - 1336z	02 May	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	THU
	1259 - 1300z	05 May	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	SUN
(10180 only)	0242 - 0243z	06 May	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	MON
(10180 only)	1141 - 1142z	06 May	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	MON
	1243 - 1244z	09 May	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	THU
	1025 - 1026z	13 May	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	MON
	1209 - 1210z	16 May	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	THU
(10180 only)	0206 - 0216z	17 May	(In chat - Probably 3A7D) (Remote Hong Kong)	JPL	FRI

(In chat – 0205z) QSY TO 07 K K (0206z) 7 K UUNKUMUMU.. SR 7..W AU *7G NR 66/CCK CK ..30 0517 0945* (0207z)
R EEEEE R M 7 7917 K 6098 K K K U QSY . (0208z) U QSY EEEEE U QSY 19 K U QSY TO 11 EEEEE U QSY O19 K K K K (0208z)
K K U QSY TO 19 K K K K K K (0209z) K K K M K K K K K K K K (0210z) *7G NR 65/CCK CK 30 30 0517 0945 .2791 7000 6098 K* K (0211z)
BT BT 3M EEE BT 3NT3 .4DU 6U64 4T74 EEE (Cont'd)(Silent – 0213z)

(10180 only)	0811 - 0812z	18 May	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	SAT
	1300 - 1301z	18 May	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	SAT
(10180 only)	1018 - 1019z	17 May	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	FRI
(5801 only)	1225 - 1226z	17 May	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (// Not checked) (Remote Siberia)	JPL	FRI
(10180 only)	1212 - 1213z	19 May	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	SUN
	1354 - 1355z	22 May	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	WED
(10180 only)	0348 - 0349z	23 May	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Eastern Siberia)	JPL	THU
	1353 - 1354z	23 May	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Eastern Siberia)	JPL	THU
(10180 only)	0348 - 0349z	24 May	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Eastern Siberia)	JPL	FRI
6773//8040	0241 - 0242z	02 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	THU
(8040 only)	0935 - 0936z	02 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Hong Kong)	JPL	THU
(8040 only)	0141 - 0142z	03 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	FRI
	1028 - 1029z	03 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	FRI
(6773 only)	0309 - 0310z	07 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	TUE
	1036 - 1037z	07 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	TUE
	2339 - 2340z	07 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	TUE
(8040 only)	0939 - 0940z	08 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	1014 - 1015z	09 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	THU
(8040 only)	0247 - 0248z	11 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	SAT
	2228 - 2229z	12 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	SUN
(8040 only)	1017 - 1018z	13 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	2159 - 2200z	14 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	TUE
	1027 - 1028z	15 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	1125 - 1130z	15 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED

(In tfc – 1025z) 310/1656/1636/05/.5/19../660/A/45/49 AR
UGT COMM BT 310/1656/1636/05/15/1955/660/A/45/49 AR
UGT COMM BT 310/1656/1636/05/15/1955/660/A/45/49 AR (Return to R/S – 1127z)
(While checking to see if // on 8040 noticed DRV8 was in tfc on 8040 but very weak, so shifted back to 6773)
1006 1306 .... 1930. RMKS 1636 . (Copied on 8040, but very weak) (In tfc on 6773) 67DA 74UT ND77 TDTU A5UD 7AT7 (Cont'd – 1032z)
AR (1136z) QTB /821 1006 1.06 *MSG NR 5.57 CK .6 42 0215 1930 RMKS 1.36 TO 1... 1006 306 BT*
67DA 74UT ND77 TDTU A5UD 7AT7 N74N .AAT NNNN T.A D.7D NA65 3.77 6UTD (Cont'd – 1138z) AR (1143z – Return to R/S)

	2226 - 2227z	16 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	THU
	0300 - 0301z	17 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	FRI
	1010 - 1011z	17 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	1031 - 1932z	20 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	MON
(6773 only)	2250 - 2251z	22 May	V H2FL (x3) DE DRV8 (x2)(Cont'd) (Remote Tuner Hong Kong)	JPL	WED
6777//8045	1030 - 1031z	14 May	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	TUE
6840//10640	0220 - 0225z	02 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	THU
	1120 - 1125z	03 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Siberia)	JPL	FRI
	1020 - 1025z	07 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Siberia)	JPL	TUE
	0220 - 0225z	09 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	THU
	1020 - 1025z	09 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Siberia)	JPL	THU
	1020 - 1025z	12 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	SUN
	1020 - 1025z	13 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	MON
	1020 - 1025z	17 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	FRI
	1020 - 1025z	22 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	WED
	1120 - 1125z	24 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	FRI
7582//8110	0235 - 0236z	06 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	0156 - 0157z	13 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	0950 - 0951z	14 May	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
7602//NRH	1525 - 1526z	12 May	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Finland)	JPL	SUN
	2231 - 2232z	12 May	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	SUN
	1527 - 1528z	18 May	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Finland)	JPL	SAT
	1827 - 1828z	18 May	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	SAT
	1946 - 1947z	28 May	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	TUE
7607//NRH	1301 - 1302z	05 May	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	2110 - 2111z	05 May	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	1139 - 1140z	06 May	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1844 - 1845z	06 May	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Siberia)	JPL	MON
	1412 - 1413z	07 May	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Finland)	JPL	TUE
	1240 - 1241z	09 May	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	1845z	15 May	V WITN WITN WITN de GNXG GNXG	FN	WED
	1529 - 1530z	18 May	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Finland)	JPL	SAT
	1934 - 1935z	23 May	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Eastern Siberia)	JPL	THU
8789//10779					
(10779 only)	0230 - 0231z	02 May	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Siberia)	JPL	THU
(10779 only)	0933 - 0934z	02 May	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
(10779 only)	0129 - 0130z	03 May	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	1048 - 1049z	03 May	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
(10779 only)	0237 - 0238z	06 May	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
(10779 only)	0300 - 0301z	07 May	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Siberia)	JPL	TUE
(10779 only)	1012 - 1013z	07 May	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Philippines)	JPL	TUE
	1018 - 1019z	07 May	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Siberia)	JPL	TUE
	2341 - 2342z	07 May	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Siberia)	JPL	TUE
	0936 - 0937z	08 May	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	1417 - 1418z	08 May	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
(10779 only)	0211 - 0212z	09 May	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
(10779 only)	0959 - 1000z	09 May	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	1010 - 1011z	09 May	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Siberia)	JPL	THU
(10779 only)	0237 - 0238z	11 May	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
	1016 - 1017z	12 May	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
(10779 only)	0159 - 0200z	13 May	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1018 - 1019z	13 May	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	0952 - 0953z	14 May	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1023 - 1024z	15 May	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	1213 - 1214z	16 May	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Siberia)	JPL	THU
	2154 - 2155z	16 May	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Siberia)	JPL	THU
	0202 - 0203z	17 May	V WITN (x3) DE GNXG (x2)(Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	1007 - 1008z	17 May	V WITN (x3) DE GNXG (x2)(Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
(10779 only)	0821 - 0823z	18 May	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Siberia)	JPL	SAT
(10779 only)	2212 - 2218z	20 May	V WITN (R3)DE GNXG (R2) (Cont'd) Weak	JkC	MON
	0339 - 0340z	23 May	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
(10779 only)	1105 - 1106z	24 May	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
(10779 only)	1638 - 1639z	24 May	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Eastern Siberia)	JPL	FRI
10180//NRH	0134 - 0135z	03 May	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	FRI
	1026 - 1027z	03 May	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	FRI
	0302 - 0303z	07 May	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	TUE
	1016 - 1017z	07 May	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	TUE
	1045 - 1046z	08 May	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Finland)	JPL	WED
	1425 - 1426z	08 May	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	WED
	0215 - 0216z	09 May	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	THU
	1001 - 1002z	09 May	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	THU
	0240 - 0241z	11 May	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	SAT
	1035 - 1036z	12 May	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Finland)	JPL	SUN
	1028 - 1029z	14 May	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	TUE
	1025 - 1026z	15 May	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	WED
	1424 - 1425z	31 May	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Finland)	JPL	FRI

10518//NRH	1644 - 1645z	01 May	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	1003 - 1004z	02 May	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	THU
	1057 - 1058z	03 May	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	FRI
	1056 - 1057z	09 May	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	THU
10998//NRH	2150 - 2151z	14 May	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	TUE
	2119 - 2120z	21 May	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1355 - 1356z	22 May	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	2017 - 2017z	22 May	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner East Siberia)	JPL	WED
	2253 - 2254z	22 May	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner East Siberia)	JPL	WED
	1111 - 1112z	24 May	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Eastern Siberia)	JPL	FRI
	1640 - 1641z	24 May	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Eastern Siberia)	JPL	FRI
	1948 - 1949z	28 May	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1608 - 1609z	29 May	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	1715 - 1716z	30 May	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	2015 - 2016z	30 May	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	2013 - 2014z	31 May	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
11321//NRH	1211 - 1212z	02 May	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	THU
	1337 - 1338z	02 May	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	THU
	1336 - 1337z	05 May	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	SUN
	1827 - 1828z	06 May	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	MON
	2118 - 2119z	06 May	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	MON
	1029 - 1030z	07 May	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	TUE
	1414 - 1415z	07 May	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Finland)	JPL	TUE
	2343 - 2344z	07 May	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	TUE

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

3300//NRH	1346 - 1347z	03 Jun	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1903 - 1907z	03 Jun	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON

EEEGA GA CQ63 RMKS 9S EEEEE (From R/S – 1903z) RMKS 3158 TO 5368 0798 0858/5018 UGT COMMS BT 58468/0400/BJ1//3158 AR BT 58468/0400/BJ0//3158 AR BT 58468/0400/BJ0//3158 AR (1905z) (Return to R/S – 1906z)

Note: Call sign change again. Last time these call signs were used was during the period 25 Mar - 07 May 2013.

	2109 - 2115z	04 Jun	V 8CPZ R3 DE XW6W (R2) contd. Fair (Remote tuner Hong Kong)	JkC	TUE
	1625 - 1626z	06 Jun	V 8CPZ (x3) DE XW6W (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	1857 - 1859z	06 Jun	V 8CPZ (x3) DE XW6W (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	1232 - 1233z	07 Jun	V 8CPZ (x3) DE XW6W (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	1805 - 1806z	09 Jun	V 8CPZ (x3) DE XW6W (x2) (Cont'd) (Remote Tuner Eastern Siberia)	JPL	SUN
	1846 - 1847z	12 Jun	V 8CPZ (x3) DE XW6W (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED

Note: Changed call sign R/S back again

	1843 - 1844z	14 Jun	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	1721 - 1722z	15 Jun	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
	1625 - 1626z	16 Jun	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	2005 - 2006z	17 Jun	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1516 - 1517z	18 Jun	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	2128 - 2129z	18 Jun	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	2050 - 2051z	19 Jun	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	1255 - 1256z	20 Jun	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	1853 - 1854z	21 Jun	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
3642//5230	2200 - 2201z	03 Jun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Eastern Siberia)	JPL	MON
	2029 - 2030z	04 Jun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Eastern Siberia)	JPL	TUE
	1627 - 1628z	06 Jun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	THU
	1922 - 1923z	06 Jun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Eastern Siberia)	JPL	THU
(3642 only)	1900 - 1901z	07 Jun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	FRI
	2153 - 2154z	07 Jun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Eastern Siberia)	JPL	FRI
	1807 - 1808z	09 Jun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Eastern Siberia)	JPL	SUN
	1702 - 1703z	16 Jun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	SUN
3642//7602	1725 - 1726z	15 Jun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	SAT
(7602 only)	2329 - 2330z	15 Jun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	SAT
(7602 only)	1918 - 1919z	20 Jun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Finland)	JPL	THU
	1850 - 1851z	21 Jun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	FRI
3725//7607	1616 - 1617z	06 Jun	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	2134 - 2135z	18 Jun	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
3797//4512	1342 - 1343z	03 Jun	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1837 - 1838z	03 Jun	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1125 - 1126z	05 Jun	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	1618 - 1619z	06 Jun	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	1057 - 1058z	07 Jun	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	1901 - 1902z	07 Jun	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	1727 - 1728z	09 Jun	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	1102 - 1103z	10 Jun	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1754 - 1755z	11 Jun	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1547 - 1548z	12 Jun	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	1845 - 1846z	12 Jun	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	1842 - 1843z	14 Jun	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
(3797 only)	1115 - 1116z	15 Jun	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
	1722 - 1723z	15 Jun	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT

	1618 - 1619z	16 Jun	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	2004 - 2005z	17 Jun	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1517 - 1518z	18 Jun	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
(3797 only)	2048 - 2049z	19 Jun	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
(4512 only)	1254 - 1255z	20 Jun	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	1848 - 1849z	21 Jun	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
4225//5500	1340 - 1341z	03 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1834 - 1835z	03 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	2209 - 2210z	03 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
(5500 only)	1112 - 1113z	05 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	1109 - 1111z	09 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
(4225 only)	1725 - 1726z	09 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	1058 - 1059z	10 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1037 - 1038z	11 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
(5500 only)	1751 - 1752z	11 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1543 - 1544z	12 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	1841 - 1842z	12 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	1611 - 1612z	16 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	2000 - 2001z	17 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	2138 - 2139z	18 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1054 - 1055z	19 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	2045 - 2046z	19 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
4474//NRH	1822 - 1823z	09 Jun	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Eastern Siberia)	JPL	SUN
4474//10998	2156 - 2157z	07 Jun	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Eastern Siberia)	JPL	FRI
4590//7607	1344 - 1345z	03 Jun	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1835 - 1836z	03 Jun	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	2003 - 2009z	03 Jun	V WITN (R3) DE GNXG (R2) contd. Very weak// Fair	JkC	MON
(7607 only)	2153 - 2154z	03 Jun	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Eastern Siberia)	JPL	MON
	2031 - 2032z	04 Jun	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Eastern Siberia)	JPL	TUE
	2032 - 2043z	04 Jun	V WITN (R3) DE GNXG (R2) contd. Very weak//Weak	JkC	TUE
	2205 - 2211z	05 Jun	V WITN (R3) DE GNXG (R2) contd. Weak	JkC	WED
	Note: Experiencing problems with the R/S - Sending V WITN (x3) DE (x2) (Cont'd - missing GNXG)				
	1113 - 1114z	09 Jun	V WITN (x3) DE (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	1730 - 1732z	09 Jun	V WITN (x3) DE (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	1800 - 1801z	11 Jun	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1546 - 1547z	12 Jun	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	1843 - 1844z	12 Jun	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	2210 - 2211z	13 Jun	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Russia)	JPL	THU
	1723 - 1724z	15 Jun	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
	2327 - 2328z	15 Jun	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
	1614 - 1615z	16 Jun	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	2003 - 2004z	17 Jun	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	2047 - 2048z	19 Jun	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	1252 - 1253z	20 Jun	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	1917 - 1918z	20 Jun	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Finland)	JPL	THU
	1846 - 1847z	21 Jun	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
4860// 6840	1620 - 1625z	06 Jun	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	THU
(6840 only)	1720 - 1725z	09 Jun	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	SUN
	1820 - 1825z	11 Jun	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	TUE
	2220 - 2225z	13 May	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	THU
	1620 - 1625z	16 Jun	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	SUN
(6840 only)	2020 - 2025z	17 Jun	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Russia)	JPL	MON
	1520 - 1525z	18 Jun	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	TUE
(6840 only)	1920 - 1925z	20 Jun	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Finland)	JPL	THU
5230//NRH	1847 - 1848z	12 Jun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	WED
5230//7602	1758 - 1759z	11 Jun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	TUE
(7602 only)	1840z	11 Jun	V DKG6 DKG6 DKG6 de 3A7D 3A7D	FN	TUE
	2345 - 2346z	11 Jun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Russia)	JPL	TUE
(7602 only)	1549 - 1550z	12 Jun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	WED
(7602 only)	2007 - 2008z	17 Jun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	MON
5588//NRH	Note: Call sign change again. Last time these call signs were used was during the period 25 Mar - 07 May 2013.				
	1114 - 1115z	05 Jun	V 8CPZ (x3) DE XW6W (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	1115 - 1116z	09 Jun	V 8CPZ (x3) DE XW6W (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	1734 - 1735z	09 Jun	V 8CPZ (x3) DE XW6W (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	1100 - 1101z	10 Jun	V 8CPZ (x3) DE XW6W (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1039 - 1040z	11 Jun	V 8CPZ (x3) DE XW6W (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1753 - 1754z	11 Jun	V 8CPZ (x3) DE XW6W (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1548 - 1549z	12 Jun	V 8CPZ (x3) DE XW6W (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	Note: Changed call sign R/S back again				
	0959 - 1000z	14 Jun	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	1117 - 1118z	15 Jun	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
	2323 - 2324z	15 Jun	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
	1031 - 1032z	18 Jun	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1100 - 1101z	19 Jun	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	1045 - 1046z	20 Jun	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU

5801//10180	1131 - 1132z	05 Jun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Eastern Siberia)	JPL	WED
	0247 - 0248z	08 Jun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Eastern Siberia)	JPL	SAT
(10180 only)	1111 - 1112z	09 Jun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	SUN
	0230 - 0231z	10 Jun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Eastern Siberia)	JPL	MON
(10180 only)	1105 - 1106z	10 Jun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Eastern Siberia)	JPL	MON
(10180 only)	1041 - 1042z	11 Jun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	TUE
	1851 - 1852z	14 Jun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Finland)	JPL	FRI
	1525 - 1526z	18 Jun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	TUE
	2130 - 2130z	18 Jun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	TUE
(10180 only)	1056 - 1057z	19 Jun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	WED
(10180 only)	1048 - 1048z	20 Jun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Finland)	JPL	THU
	1250 - 1251z	20 Jun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	THU
6773//8040					
(8040 only)	2211 - 2212z	03 Jun	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	2229 - 2230z	07 Jun	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	1035 - 1036z	11 Jun	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	2227 - 2228z	13 Jun	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	0957 - 0958z	14 Jun	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	1029 - 1030z	18 Jun	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
(8040 only)	1102 - 1103z	19 Jun	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
(8040 only)	1043 - 1044z	20 Jun	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
6840//10640					
(10640 only)	0020 - 0025z	03 Jun	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Eastern Siberia)	JPL	MON
	0720 - 0625z	03 Jun	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	MON
	0220 - 0225z	05 Jun	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	WED
	1120 - 1125z	05 Jun	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	WED
	0120 - 1625z	07 Jun	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	FRI
	1120 - 1125z	09 Jun	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	SUN
	0020 - 0025z	13 Jun	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	THU
	0120 - 0125z	15 Jun	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	SAT
	1120 - 1125z	15 Jun	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	SAT
	0020 - 0025z	18 Jun	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	TUE
	1020 - 1025z	18 Jun	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	TUE
7582//8110	0028 - 0029z	03 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	0717 - 0718z	03 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	0258 - 0259z	04 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	0154 - 0155z	05 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	0033 - 0034z	11 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	0019 - 0020z	13 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	0014 - 0015z	18 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1001 - 1019z	18 Jun	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	(In tfc – 1001z) UGT COMM BT 3819/1855/Z67/928. AR				
	VV TC2 UGT COMM BT 3901/1930/G70/983 AR VV TC2 UGT COMM BT 3901/1930/G70/9283 AR V V TC3 UGT COMM BT 3656/2105/Z63/9289 AR				
	VV TC3 UGT COMM BT 3656/2105/Z63/9289 AR VV TC4 7G NR 06/CCK CK 25 37 0618 0240 RMKS 9289 TO 3064/3808/3049/8789/3956/9069/3966/8002 AR				
	VV TC4 7G NR 06/CCK CK 25 37 0618 0240 RMKS 9289 TO 3064/3808/3049/8789/3956/9069/3966/8002 AR VV TC5 UGT COMM BT 3399/0315/Z67/9289 AR				
	VV TC5 UGT COMM BT 3399/0315/Z67/9289 AR VV TC6 UGT COMM BT 3901/0450/G70/9283 AR VV TC6 UGT COMM BT 3901/0450/G70/9283 AR				
	VV TC7 UGT COMM BT 3568/0930/Z68/9289 AR VV TC7 UGT COMM BT 3568/0930/Z68/9289 AR VV TC8 UGT COMM BT 3651/1000/G70/9283 AR				
	VV TC8 UGT COMM BT 3651/1000/G70/9283 AR VV TC9 UGT COMM BT 3561/1315/796/9289 AR VV TC9 UGT COMM BT 3561/1315/79/9289 AR				
	VV TC10 UGT COMM BT 3984/1530/Z65/9289 AR VV TC10 UGT COMM BT 3984/1530/Z65/9289 AR (Return to R/S – 1016z)				
7607//NRH	1812 - 1813z	07 Jun	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Eastern Siberia)	JPL	FRI
	1845 - 1946z	14 Jun	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	1112 - 1113z	15 Jun	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
	1527 - 1528z	18 Jun	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1952 - 1954z	18 Jun	V WITN (R3) DE GNXG (R2) (Cont.) Fair //4950kHz NRH	JkC	TUE
8102//10180	0858 - 0859z	08 Jun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Eastern Siberia)	JPL	SAT
8198//10180	Note: 8198 is a new frequency for 3A7D				
	0117 - 0118z	07 Jun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Eastern Siberia)	JPL	FRI
8789//10779	0015 - 0016z	03 Jun	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Eastern Siberia)	JPL	MON
(10779 only)	0725 - 0726z	03 Jun	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
(10779 only)	0300 - 0301z	04 Jun	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	0156 - 0157z	05 Jun	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	1129 - 1130z	05 Jun	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Eastern Siberia)	JPL	WED
	0207 - 0208z	07 Jun	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	1056 - 1057z	07 Jun	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
(8797 only)	0243 - 0244z	08 Jun	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
	0038 - 0039z	11 Jun	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1033 - 1034z	11 Jun	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
(10779 only)	0017 - 0018z	13 Jun	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	0028 - 0029z	13 Jun	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Russia)	JPL	THU
	0955 - 0956z	14 Jun	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	0049 - 0050z	15 Jun	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Russia)	JPL	SAT
	0114 - 0115z	15 Jun	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
(8797 only)	0016 - 0017z	18 Jun	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
(8797 only)	1027 - 1028z	18 Jun	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1058 - 1059z	19 Jun	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	0011 - 0012z	20 Jun	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Russia)	JPL	THU
	1041 - 1042z	20 Jun	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	0137 - 0138z	21 Jun	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI

10180//NRH	1447 - 1448z	03 Jun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	MON
	0302 - 0303z	04 Jun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Eastern Siberia)	JPL	TUE
	0123 - 0126z	05 Jun	V DKG6 (R3) DE 3A7D (R2) contd. Very Weak	JkC	WED
	0953 - 0954z	14 Jun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	FRI
	0046 - 0047z	15 Jun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Russia)	JPL	SAT
	1110 - 1111z	15 Jun	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	SAT
10998//NRH	0017 - 0018z	03 Jun	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Eastern Siberia)	JPL	MON
	1453 - 1453z	03 Jun	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1836 - 1837z	03 Jun	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	2139 - 2140z	03 Jun	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Eastern Siberia)	JPL	MON
	1434 - 1435z	04 Jun	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Eastern Siberia)	JPL	TUE
	2024 - 2025z	04 Jun	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Eastern Siberia)	JPL	TUE
	2334 - 2335z	04 Jun	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Eastern Siberia)	JPL	TUE
	0200 - 0201z	05 Jun	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Eastern Siberia)	JPL	WED
	1136 - 1137z	05 Jun	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Eastern Siberia)	JPL	WED
	0125 - 0126z	07 Jun	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Eastern Siberia)	JPL	FRI
	1814 - 1815z	07 Jun	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Eastern Siberia)	JPL	FRI
	2003 - 2004z	07 Jun	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Eastern Siberia)	JPL	FRI
	0250 - 0251z	08 Jun	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Eastern Siberia)	JPL	SAT
	0900 - 0901z	08 Jun	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Eastern Siberia)	JPL	SAT
	0036 - 0037z	11 Jun	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1756 - 1757z	11 Jun	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	2341 - 2342z	11 Jun	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Russia)	JPL	TUE
	1545 - 1546z	12 Jun	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	1839 - 1840z	12 Jun	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	0014 - 0015z	13 Jun	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Russia)	JPL	THU
	2209 - 2210z	13 Jun	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	1844 - 1845z	14 Jun	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	0051 - 0052z	15 Jun	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Russia)	JPL	SAT
	1724 - 1725z	15 Jun	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
	2324 - 2325z	15 Jun	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
	0218 - 0219z	16 Jun	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Russia)	JPL	SUN
	1612 - 1613z	16 Jun	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	2002 - 2003z	17 Jun	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1528 - 1529z	18 Jun	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Finland)	JPL	TUE
	1921 - 1922z	18 Jun	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Finland)	JPL	TUE
	2136 - 2137z	18 Jun	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Finland)	JPL	TUE
	1744 - 1744z	25 Jun	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Finland)	JPL	TUE
	2041 - 2042z	25 Jun	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Russia)	JPL	TUE
11161//NRH	0230 - 0241z	07 Jun	V HIE3 (x3) DE 6JDU (x2) (Cont'd) (Remote Tuner Eastern Siberia)	JPL	FRI

HR MSG GA (Signal a bit distorted - 0233z) HR 7G GA MSG NR 007/EX CK BT *MSG NR 007/EX CK 99 64 0607 1130 RMKS CQ BT*
3645 3UT5 AT46 356D ADU4 3NTU 564A 7N6A (Cont'd – 0234z) AR QSL ? K (0238z) 36 HR CQ N.L S. (Silent - Carrier on frequency – 0239z)

11238//NRH	1253 - 1300z	10 Jun	QZEC DE 7JTM (In chat) (Remote Eastern Siberia)	JPL	MON

6KE5 K (1253z) R QSL ? K R UWKNR K R HR WK NR 1675 5194 K *..PY* K (1254z) R UWK NR K VV *34CX* K R UWK .. VV *... F* K
R *61AP* K (1257z) R WN .. K .. DE *7JTM* 7JTM KKPYP (This appears to be the control station for the stations on 11226) VV Q7EC *QZEC DE 7JTM* 7JTM SK SK (1300z)

11271//NRH	0241 - 0253z	10 Jun	8XNJ DE RQE7 (Remote Eastern Siberia)	JPL	MON

VVVV VVVV (0241z) VV *8XNJ DE RQE7 K* (0242z) R QSA 2 ICE BT GSY AR K (0243z) R HR MSG GA K HR MSG GA
MSG NR 5729 CK 79 55 0051 01040 RMKS 2549792 TO 2549795 K BT 5EAA 5.U TUAD 3ANU N.. (Cont'd – fading – 0245z)
AR QSL ? K (0247z) R R GA (0248z) (Other station found to be on 11324) *QSL 1052 K* R BOZBHGHFESWK K (Silent - 0253z)

M94 CW, MCW, partner station to V24 Virtually unheard in Europe so we rely on our American monitors

No Reports (See Newsletter No.76 for schedule)

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

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

After another long period of silence from M97, Guy (GD) caught the first May transmission on Tue 14 with msg SD81. This msg was first sent on 10 April and was sent only three more times that month, the last being on Mon 15 April - so almost a month since the last transmission.

10375	1456 - 1521z	14 May	SD81 SN70	GD	TUE

Nothing more was heard in May & as June progressed we were resigned to not hearing anything from the station during the month. Then on 25 May...

10375	1455 - 1520z	25 May	SD81 SN70	BR	TUE

So, still sending the same message over a three month period - though not at all frequently of late.

SK01 **(Data Mode generic classification, Cuban TX's)** See Control List & NL49 for old RDFT detail. **See P29-30 of NL72 for detail s of New Format SK01**

[with M08a and V02a]

No Reports - Believed to have been replaced by HM01 transmissions.

Marker Beacons (MX MXI)

4028	2302z	22 May MXS CW Beacon "V"	(Remote Tuner East Siberia)	JPL	WED
4084	1516z	02 May MXS CW Beacon "V" *Also reported on May 07*	(Remote Tuner Siberia)	JPL *JPL*	THU
5156.5	1055z	21 Jun MXS CW Beacon "L"	(Remote Tuner Finland)	JPL	FRI
6918	0940z	16 Jun MXS CW Beacon "L"	(Remote Tuner Finland)	JPL	SUN
7737	0142z	06 Jun MXS CW Beacon "V"	(Remote Tuner Eastern Siberia)	JPL	THU
8498	2214z	07 Jun MXS CW Beacon "L" *Also reported on Jun 11 1809*	(Remote Tuner Eastern Siberia)	JPL *JPL*	FRI
10309	1004z	08 May MXS CW Beacon "F" *Also reported on May 09 & Jun 18*	(Remote Tuner Siberia)	JPL *JPL*	WED
10872.3	0939z	09 May MX CW Beacon "K" *Also reported on May 13, 22*		HT *HT*	THU
10872.4	0935z	22 May MC CW Beacon "M"		HT	WED
13528.2	0942z	09 May MX CW Beacon "F" *Also reported on May 13*		HT/JPL *HT*	THU
13528.4	0942z	09 May MX CW Beacon "M" *Also reported on May 13, 22*		HT/JPL *HT*	THU

Contributors: ATC, CB, BR, DanielE2Kde, FN, GD, HFD, HT, JkC, JPL, MaleAnon, RNGB, SB, tiNG *Thank you all for your logs.*

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

On June 26th HM01 began transmitting a new set of callups which was the first change in almost a month.
Most of the files transmitted were around 1000 bytes in length and contained random bytes from 0 to 255. Callup 2698 however had a shorter TX of 20 seconds instead
of the normal 30-32 seconds. Presumably they added this file to try to make sure it made it into the latest E2K newsletter.

This file followed patterns noted in previous SK01 and HM01 events. Callup was 26983 (ignore the last digit) and file name was 31842698.TXT
(Last 4 of file name matches the callup).

File contents are below.
Byte 0 is 62 or b in ASCII = Binary
Byte 1 is 68 which means the file name starts with 31 (Matches 2 SK01 files transmitted in 2010)
Byte 2 is 01 (Expected 00 or 01)
Byte 3 is 5D (This byte may contain Hex letters and in this case it does)
Byte 4 is normally 00 or 01 (and is in this case)
Byte 5 believed to be the start of the message.

There are some apparently randomly spaced bytes reading B0 to B9 (excluding B3) this phenomenon was noted in file 57011381.txt
which was transmitted in February there must be something to this but no idea what.

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

Logs and comment follows:

May 2013:

9065kHz 0800z	06/05[34465 71674 07132 68264 76683 68526] 0852z Fair QRN3 QSB3	Spectre	MON
9240kHz 0900z	06/05[34465 71674 07132 68264 76683 68526] 0952z Weak QRN3 QSB3	Spectre	MON
9330kHz 0700z	06/05[34465 71674 07132 68264 76683 68526] 0752z Fair QRN3 QSB3	Spectre	MON
0658z	08/05[34465 71674 07132 68264 76683 68526] Fair QRM3 QSB2	JkC	WED
0710z	15/05 [WEAK]	M8	WED

10345kHz0643z	03/05 Weak transmission [Australia]	EW	FRI
0600z	06/05[34465 71674 07132 68264 76683 68526] 0652z Fair QRN3 QSB3	Spectre	MON
0600z	07/05[34465 71674 07132 68264 76683 68526] 0652z Fair QRN3 QSB3	Spectre	TUE
10715kHz2200z	01/05[34465 71674 07132 68264 76683 68526] 2252z Fair QRN4 QSB3	Spectre	WED
2200z	03/05[34465 71674 07132 68264 76683 68526] 2252z Fair QRN3 QSB3	Spectre	FRI
2200z	06/05[34465 71674 07132 68264 76683 68526] 2252z Fair QRN3 QSB3	Spectre	MON
2158z	29/05[34465 71674 07132 68264 76683 68526 (contd)]2203z Fair QRM3 QSB2	JkC	WED
11530kHz2300z	01/05[34465 71674 07132 68264 76683 68526] 2352z Fair QRN3 QSB3	Spectre	WED
2300z	03/05[34465 71674 07132 68264 76683 68526] 2352z Fair QRN3 QSB3	Spectre	FRI
2303z	06/05[34465 71674 07132 68264 76683 68526] Fair QRM3 Carrier came on at 2301z QSB3	JkC, Spectre	MON
2300z	17/05[34465 71674 07132 68264 96683 68526] QSA2	DanAR	FRI
2300z	24/05[34465 71674 07132 68264 76683 68526]QSA2	DanAR	FRI
2300z	29/05[34465 71674 07132 68264 76683 68526]QSA2	DanAR	WED
12120kHz0500z	02/05[68526 34465 71674 07132 68264 76683] QSA3	DanAR	THU
0500z	07/05[68526 34465 71674 07132 68264 76683] QSA2	DanAR, Spectre	TUE
12180kHz1000z	07/05[34465 71674 07132 68264 76683 68526] 1052z Weak QRN3 QSB3	Spectre	TUE
1000z	23/05[34465 71674 07132 68264 76683 68526]QSA3	DanAR	THU
13435kHz0700z	07/05[34465 71674 07132 68264 76683 68526] 0752z Fair QRN3 QSB3	Spectre	TUE
16180kHz2100z	02/05[34465 71674 07132 68264 76683 68526] 2152z Fair QRN3 QSB3	Spectre	THU
2100z	04/05[34465 71674 07132 68264 76683 68526] 2152z Fair QRN3 QSB3	Spectre	SAT
17480kHz2200z	02/05[34465 71674 07132 68264 76683 68526] 2252z Fair QRN3 QSB3	Spectre	THU
2200z	04/05[34465 71674 07132 68264 76683 68526] 2252z Fair QRN3 QSB3	Spectre	SAT
2229z	30/05[I/P 34466 71675 07133 68265 76684 68527 2237z Fair QRM2 QSB2 Final digit has incremented 1	JkC	THU
17540kHz2300z	02/05[68526 34465 71674 07132 68264 76683] QSA3	DanAR	THU
2300z	04/05[68526 34465 71674 07132 68264 76683] QSA2	DanAR	SAT

June2013:

Interesting input from AnonUS:

The Cubans had been stuck on the following HM01 sequence since April 30th:
34465 (30467383.txt) 71674 (72306820.txt) 07132 (05277120.txt) 68264 (21128314.txt) 76683 (34584437.txt) 68526 (44665075.txt)

I believe they got their act together yesterday May 31st. Today's offering was

11435kHz1600z 01/06[34467 (30467383.txt) 71676 (72306820.txt) 07134 (05277120.txt) 68266 (21128314.txt) 76685 (34584437.txt) 43541 (18112106.txt)]
Note new callup and file in position 6. All other files are identical to those transmitted previously.

Why they should stagnate for the whole month of May and then pick up as if nothing had happened 1 month later is beyond me.

5855kHz1017z	10/06 AM Mode Alternating Synthesized Female	SH	MON

5855kHz1003z 16/06
1003:21 (+/- two seconds) with preamble
consisting of five digit numbers by a Female synthesized voice in Spanish until 1006:39 (+/- one second) at which time into RDFT data transmission alternating with Female synthesized voice in Spanish with five digit number. No normal silent period between broadcast halves, at about 1027:35 (+/- 10 seconds) went right from RDFT data transmission into preamble with no three minute silent period which is typical between the two halves of the broadcast. At 1030:52 preamble ended followed by RDFT data transmission alternating with Female synthesized voice in Spanish with five digit number. 5855 (Fair signal) // to 9155 kHz (Good signal). Both frequencies if not in exact sync. were pretty close. so I couldn't hear any difference. SH SUN

10715kHz2200z	10/06 interference from an unid. data mode station. HM-01 Broadcast barely heard	SH	MON

11530kHz1739z 07/06 SH FRI
Numbers Station HM-01. Tuned in at 1739. AM mode with alternating synthesized
female voice in Spanish with a five digit number followed by Redundant Digital File Transfer (RDFT) data
transmission. Broadcast ended with an RDFT transmission finishing at 1754:40
GMT. Poor signal. Friday 6/7/13

11530kHz2300z	05/06[34467 71676 07134 68266 76685 43541]QSA3	DanAR	WED
2300z	10/06 - imposible to copy due to excessive hum in transmission	DanAr	MON

11630kHz1803z 07/06 SH FRI
Numbers Station HM-01 began broadcast at 1757:44 (+/- a few seconds) GMT in AM
mode with synthesized female voice in Spanish with preamble (five digit numbers). This continued until 1801:07 (+/- a few seconds) GMT at which time
there was a Redundant Digital File Transfer (RDFT) data transmission followed by synthesized female voice in Spanish with
a five digit number thereafter alternating with RDFT. Tuned out 1803 GMT. Friday
6/7/13.

11635kHz1600z 26/06[25261 18304 74706 13156 55721 26982] First change in callups since May 31st. Condx bad here today, all RDFT transmissions...
Anon WED

12120kHz0940z	18/06 fair signal	Kopf	TUE

12180kHz1000z	01/06[34467 71676 07134 68266 76685 43541]QSA2	DanAR	SAT
1040z	15/06 RDFT data transmissions alternating with Spanish language female mechanical voice. Parallel frequency was 11635kHz which had a better signal.	SH	SAT
13435kHz0700z	18/06 fair to weak signal	Kopf	TUE
0708z	25/06 Speech + RDTF, Weak	PLdn	TUE
17480kHz2202z	18/06[i/p 76685 43541 34467 71676 07134 68266 cont + RDFT] 2213z QRM1 QSB1	JkC	TUE
17540kHz2300z	01/06[34467 71676 07134 68266 76685 43541]QSA3	DanAR	SAT

And from RNGB:

01/05/2013	Weds	05:00	5855	68526 34465 71674 07132 68264 76683
02/05/2013	Thurs	07:00	13435	07132 68264 76683 68526 34465 71674
15/05/2013	Weds	07:00	9330	68264 76683 68526 -4465 71674 07132
11/06/2013	Tues	06:00	14375	34467 71676 07124 68266 96685 43541
14/06/2013	Friday	05:00	5855	34467 71676 07134 68266 76685 43541
17/06/2013	Mon	08:00	9065	34467 71676 07134 68266 76685 43541
20/06/2013	Thurs	07:00	13435	34467 71676 07134 68266 76685 43541
20/06/2013	Thurs	10:00	12330	34467 71676 07134 68266 76685 43541

VOICE STATIONS

E06

RNGB's logs

E06 May log:

Thurs 2nd	06:00	16170	'460' 973 101 87024 75491 14736 51279 39541.....09704 02825
Thurs 16th	06:00	16170	'460' 973 101 87204 75491 14736 51279 39541.....02825
Weds 12th	20:20	4537	'218' 00000
Sun 16th	11:20	8144	'218' 00000
	12:20	7384	'218' 00000

E06 June log:

Thurs 20th	06:00	16240	'328' 749 106 81751 64071 75814 64831 34677.....09067
	20:30	5948	'724' 147 15 too much QRM to copy

PoSW's logs:

A general move to higher summertime frequencies in May.

First + Third Thursdays in the Month 2030 UTC Schedule:-
2-May-13:- 5,948 kHz, moved to a spot inside the 49 metre band, totally flatted by an S9+ French language broadcast station on 5,950 making the E06 OM unreadable.

16-May-13:- 5,948 kHz, slightly better than last time, call "724", DK/GC sounded like, "059 059 15 15", 5Fs difficult to copy through the broadcast interference.

Friday Following the First + Third Thursdays Schedule, 2130 UTC.
3-May-13:- 5,731 kHz, call "315", started well before the half – hour, DK/GC "674 674 15 15". Good signal, none of the unpleasant grating audio noted on some past occasions. Voice stopped on the last 5F group, "67656", no repeat of DKDKGCGC and no 5 x "Zero" at the end. Carrier went QRT around 2138 and 40s UTC.

17-May-13:- 5,731 kHz, started approx. one minute late, call "315" but not the same message as last time, DK/GC "099 099 15 15". Good signal with no unpleasant noises.

7-June-13:- 5,731 kHz, no voice heard until after 2131z, call "315", DK/GC "776 776 15 15". A certain lack of imagination in the 5Fs, groups 3, 6 and 11 were "67654", 2 and 9 were "56543", 4 and 14 "787654". S9 signal but had that rasping noise, sometimes its there ans sometime it isn't!

21-June-13:- 5,731 kHz, "315" and "776 776 15 15" again, S9 with the rasping noise – parasitic oscillation in the TX final amplifier, or what?

Second Wednesday in the Month 1920 + 2020 UTC Schedule:-
8-May-13:- 1919 UTC, started early, 5,423 kHz, "218 218 218 00000", S9 signal, good audio. Carrier on 5,423 noted twenty minutes or so earlier.
2019 UTC, also an early start, 4,537 kHz, second sending.

12-June-13:- 1920 UTC, unusually for this one started within a few seconds of the correct time, 5,423 kHz, "218 218 218 00000", S7 with clean audio.
2020 UTC, started 35 seconds early, 4,537 kHz, second sending, and this transmission *did* come with rasping, grating noise on the speech.

Sunday Following the Second Sunday in the Month 1120 + 1220 UTC Schedule:-
12-May-13:- 1119 UTC, 8,144 kHz, started about one minute early just like the Wednesday schedule, "218 218 218 00000". Very weak signal, only just audible. Unable to find a repeat
one hour later on a lower frequency, not making the distance in the daylight!

16-June-13:- 1120 UTC, 8,144 kHz, started within a few seconds of 1120z, unusually! "218 218 218 00000". Same frequency as in may, stronger signal, S3 to S4.
1220 UTC, 7,384 kHz, the elusive second sending, very weak signal, only just readable.

First + Second Thursdays in the Month 0500 + 0600 UTC Schedule:-
2-May-13:- 0500 UTC, 14,460 kHz, very weak signal of some kind, unable to confirm as E06 but frequencies in May last year were 14,460 + 16,170 kHz.
0600 UTC, 16,170 kHz, very weak signal, could just make out E06 OM calling "460", everything else inaudible.

3-May-13, Friday:- 0500 UTC, 14,460 kHz, "next day repeat", much stronger signal this morning, S6 to S7, call "460", DK/GC "973 973 101 101".
0600 UTC, 16,170 kHz, second sending, no great improvement here, almost as weak as yesterday.

16-May-13:- 0500 UTC, 14,460 kHz, "460" and "973 973 101 101", S5 to S6.
0600 UTC, 16,170 kHz, second sending, peaking S7.

17-May-13, Friday:- 0500 UTC, 14,460 kHz, very weak signal, could just hear "460" call, much stronger when checked again just before 0520z, S6 to S7, ended shortly afterwards.
0600 UTC, 16,170 kHz, very weak signal, only just readable.

6-June-13:- 0500 UTC, 14,710 kHz, call "328", DK/GC "749 749 106 106", strength S7.
0600 UTC, 16,240 kHz, second sending, much weaker, S3 at best.
7-June-13, Friday:- 0500 UTC, 14,710 kHz and 0600 UTC, 16,240 kHz, both next day repeats very weak signals, unreadable. Certainly some wide variations in propagation in this part of the short-wave spectrum!

20-June-13:- 0600 UTC, 16,240 kHz, second sending, call "328", DK/GC "749 749 106 106".
21-June-13, Friday:- 0500 UTC, 14,710 kHz, very weak signal, unreadable, when checked again at 0517z was S3. Ended just before 0522z with "749 749 106 106 00000".
0600 UTC, 16,240 kHz, "328" and "749 749 106 106", weak but readable.

Others' Logs

May2013:

5731kHz 2130z	03/05[315 674 15 56434 ... 67656 QRT] 2136z Fair QRN3 QSB3 (TX was cut off mid-message.)	Spectre	FRI

315 674 15
56434 78564 98786 56434 65643
67545 12321 98976 67541 08976
67545 67564 67545 67656 (6765... TX QRT)
Courtesy Spectre

5948kHz2030z	02/05[724 059 15 18473 ... ?1774 059 15 00000]Very strong signal, weak noise, BCQRM	FR, JkC	THU
2030z	02/05[0 12334] being repeated	Spectre	THU

724 059 15
18473 26475 39685 03725 46388
16483 26509 27465 37163 27194
63281 94736 27462 19047 ?1774
059 15 00000 *Courtesy FR*

2030z	16/05[-] Strong signal but bleeding way too strong to copy	FR	THU
14460kHz0500z	03/05[460 973 101 87024 75491 14736 51279 ?3994 ?????] Medium/strong signal, QRM, QSB nil msg copy	FR	FRI
0500z	17/05[460 973 101 87024 .....]repeat from 03/05] Medium/strong signal, QRM, QSB	FR	FRI

460 973 101
87024 75491 14736 51279 39541
53228 31829 41977 35103 20994
18380 03090 3119? 977?? ?????
Courtesy FR

June2013:

5731kHz2130z	07/06[315 776 15 56453 ... 78142 776 15 00000] Strong signal, moderate noise, audio very distorted	FR	FRI

315 776 15
56453 56546 67654 78765 45432
67654 34231 89761 56543 89786
67654 87867 56541 78765 78142
776 15 00000 Courtesy FR

2030z	21/06[315 776 15 56453 … 76142 776 15 00000(s)] 2137z Strong and distorted (7m25s)	PLdn	FRI
5948kHz2030z	06/06[7.4 unreadable]0000z Weak Unreadable except to confirm sked with message QRM5 QSB1	JkC	THU
2030z	20/06[724] Strong signal, however, bleeding too strong to copy message	FR	THU
14710kHz0500z	21/06[428] Medium signal, some fading, noise too strong to copy message	FR	FRI

PoSW provides more analysis and logs [with some duplication]:

Has settled down into a predictable routine although start-ups on the wrong frequency, i.e. on the frequency used in the previous hour and failing to QSY to a different one is a fairly common occurrence, usually some individual in Cuba wakes up a few minutes into the transmission, realises he has failed to dial up the new frequency and does so right away

3-May-13, Friday:- 2158 UTC, 10,715 kHz, call-up in progress when tuned in, "34465 71674 07132 68264 76683 68526". Data started at 2200z.

4-May-13, Saturday:- 0857 UTC, 12,120 kHz, "34465 71674 07132 68264 76683 68526", same 5Fs as yesterday, RTTY type signal on close frequency.

6-May-13, Monday:- 0557 UTC, 10,345 kHz, "34465 71674 07132 68264 76683 68526" - again. Peaking over S9 with good audio.

8-May-13, Wednesday:- 2158 UTC, 10,715 kHz, "34465 71674 07132 68264 76683 68526", so no change there. Call-up in progress when tuned in, data began just before 2200z. S7, FSK station on LF side.

9-May-13, Thursday:- 2200 UTC, 17,480 kHz, must have started later than usual, tuned in just before 2200z expecting to catch the last few seconds of the call-up but this went on until 2202z. Same 5Fs, "34465 71674 07132 68264 76683 68526".

10-May-13, Friday:- 0558 UTC, 10,345 kHz, "34465 71674 07132 68264 76683 68526", S9+ with good audio.

11-May-13, Saturday:- 0558 UTC, 14,375 kHz, "34465 71674 07132 68264 76683 68526".
Data started 0601 and 40s UTC, S6 with good audio.
0658 UTC, 13,435 kHz, several stops and starts in the call-up, 5F groups as earlier, S9.
0938 UTC, 12,120 kHz, missed start, transmission in progress S8 with good audio.
1000 UTC, 12,120 kHz, still on 12,120 with call-up, expected a QSY to 12,180, much weaker signal than earlier. Was still on 12,120 when checked again 1020z.

12-May-13, Sunday:- 0658 UTC, 9,330 kHz, "34465 71674 07132 68264 76683 68526". S9 with good audio.
0758 UTC, 9,065 kHz, same 5Fs as earlier,S5 to S6.
0858 UTC, 9,240 kHz, very weak signal, unreadable.
2158 UTC, 10,715 kHz, "34465 71674 07132 68264 76683 68526", as this morning. S8 to S9, as always on 10,715 FSK on LF side.

15-May-13, Wednesday:- 0500 UTC, 5,855 kHz, call-up did not start until just after 0500z.
"34465 71674 07132 68264 76683 68526" Went on in this manner until after 0506z when data noise started, S9 signal.
0558 UTC, 10,345 kHz, 5Fs as earlier, S9 with good audio.

20-May-13, Monday:- 2158 UTC, 17,480 kHz, "34465 71674 07132 68264 76683 68526", 5Fs as always, S9 with deep QSB.

24-May-13, Friday:- 0558 UTC, 10,345 kHz, "34465 71674 07132 68264 76683 68526", S9 with good audio, data started 0601 : 25s UTC.

25-May-13, Saturday:- 0658 UTC, 13,465 kHz, "34465 71674 07132 68264 76683 68526".
S8 with good audio.

26-May-13, Sunday:- 0758 UTC, 9,065 kHz, went off for approx. 30 seconds during he call-up, came back with a noisy carrier and a few seconds of music - strange! Resumed call-up after 0800 UTC, "34465 71674 07132 68264 76683 68526".

31-May-13, Friday:- 0558 UTC, 10,345 kHz, - and by Jove, the 5Fs have changed, each has clicked up by one digit on what they have been for the past few weeks! "34466 71675 07133 68265 76684 68527". S9 with excellent audio, the data racket started at 0601 and 20 seconds UTC.

1-June-13, Saturday:- 0858 UTC, 12,120 kHz, weak signal, difficult copy at times but sounds as if the 5Fs have changed again, "34467 71676 07134 68266 76685 43541", all "query" due to poor copy and that last one seems out of place!

3-June-13, Monday:- 0558 UTC, 5,855 kHz, some mistake surely? Should be on 10,345.
"34467 71676 07134 68266 76685 43541". Weak signal. Had gone when checked again after 0605z, moved to 10,345 and was a much stronger signal here, S8 to S9.

4-June-13, Tuesday:- 2158 UTC, 16,180 kHz, should be on 17,480. S9 with QSB, "34467 71676 07134 68266 76685 43541" Data noise after 2201 UTC, vanished 2202 :40s UTC, found on 17,480 kHz, much weaker signal, S3 to S5.

5-June-13, Wednesday:- 0558 UTC, 10,345 kHz, "34467 71676 07134 68266 76685 43541"
S9 with good audio.

9-June-13, Sunday:- 0558 UTC, 10,345 kHz, "34467 71676 07134 68266 76685 43541". S9 signal but had a short "echo" effect on it, put me in mind of "Heartbreak Hotel" by Elvis, presumably caused by some multi-path propagation phenomenon, e.g. the signal arriving by two separate paths. Also, on the wrong frequency, vanished around 0702:30s UTC, did a QSY to 9,330 kHz, over-riding a weak BC station.

14-June-13, Friday:- 0558 UTC, 10,345 kHz, "34467 71676 07134 68266 76685 43541"
Peaking S9+, good audio.

15-June-13, Saturday:- 0958 UTC, 12,120 kHz, starting on the wrong frequency, should be on 12,180 - seems to be a regular feature these days. ""34467 71676 07134 68266 76685 43541". Vanished 1007 UTC, re-tuned to 12,180 kHz, it was a couple of minutes before HM01 came up.

17-June-13, Monday:- 0558 UTC, 10,345 kHz, "34467 71676 07134 68266 76685 43541", data noise started just before 0601z, S9 with good audio.

22-June-13, Saturday:- 0902 UTC, 12,120 kHz, late start, carrier only until 0902z, "34467 71676 07134 68266 76685 43541".Data started after 0905z, S9 signal, the usual FSK signal on a close frequency.

E07

We start with PoSW's logs:

Sunday + Wednesday Schedule, 1700 UTC Start:-
1-May-13, Wednesday:- 1700 UTC, 14,763 kHz, "731 731 731 000".
1720 UTC, 13,363 kHz, second sending.

5-May-13, Sunday:- 1700 UTC, 14,763 kHz, "731 731 731 000", S6 to S7.
1720 UTC, 13,363 kHz, second sending, S9+ with good audio.

8-May-13, Wednesday:- 1700 UTC, 14,763 kHz and 1720 UTC, 13,363 kHz, both strong signals, "731 731 731 000".

12-May-13, Sunday:- 1700 UTC, 14,763 kHz and 1720 UTC, 13,363 kHz, "731 731 731 000", even stronger, both S9+.

26-May-13, Sunday:- 1700 UTC, 14,763 kHz, "731 731 731 1", DK/GC "312 116" x 2, S7 to S8, good audio.
1720 UTC, 13,363 kHz, second sending, S9+, good audio.
1740 UTC, 12,163 kHz, third sending, also S9+.

5-June-13, Wednesday:- 1700 UTC, 14,842 kHz, calling "841" for a full message, weak signal, difficult copy.
1720 UTC, 13,442 kHz, again difficult copy due to strong "XJT" on frequency, DK/GC sounded like "312 116" so the same message as on 25-May.
1740 UTC, 12,142 kHz, unreadable due to strong BC station on 12,140. Not a much of a choice of frequencies for the month of June, then!

12-June-13, Wednesday:- 1700 UTC, 14,842 kHz,"841 841 841 000", S7, reasonable audio.
1720 UTC, 13,442 kHz, second sending, S9.

19-June-13, Wednesday:- 1700 UTC, 14,842 kHz, "841 841 841 1", DK/GC "538 116" x 2, peaking S9 with good audio.
1720 UTC, 13,442 kHz, second sending, S9 over-riding "XJT".
1740 UTC, 12,142 kHz, third sending, strong enough to over-ride BC station.

Monday + Wednesday Schedule, 1900 UTC Start:-
1-May-13, Wednesday:- 1900 UTC, 14,812 kHz, "845 845 845 000", weak signal, difficult copy.
1920 UTC, 13,412 kHz, second sending, strong "XJT" on very close frequency.

6-May-13, Monday:- 1900 UTC, 14,812 kHz, "845 845 845 000", much improved signal, S9 with reasonable audio.

8-May-13, Wednesday:- 1900 UTC, 14,812 kHz, "845 845 845 000", S9+, things have certainly got better over the past week!
1920 UTC, 13,412 kHz, second sending, also S9+ over-riding that pesky noise-maker!

13-May-13, Monday:- 1900 UTC, 14,812 kHz, "845 845 845 000", S9+ with good audio.
1920 UTC, 13,412 kHz, second sending, the "XJT" strong enough to make copy difficult.

22-May-13, Wednesday:- 1900 UTC, 14,812 kHz, "845 845 845 1", a "full message" for a change. DK/GC "328 111" x 2, S7 with good audio.
1920 UTC, 13,412 kHz, second sending, over-riding the "XJT".
1940 UTC, 11,512 kHz third sending, S9+ with good audio.

3-June-13, Monday:- 1904 UTC, 15,824 kHz, first sending in progress with a "full message",
difficult copy due to S9+ BC station on 15,285, American English - no doubt Hell Fire and Damnation Christian Fundamentalist of the type they do so well in the US of A.
1920 UTC, 14,624 kHz, "865 865 865 1", DK/GC "489 110" x 2. S9 with deep QSB.
1940 UTC, 13,524 kHz, third sending, S9+, interference from a rapidly swept carrier which is a permanent fixture here, strong SLT sending "C" on a close frequency.

19-June-13, Wednesday:- 1900 UTC, 15,824 kHz, "865 865 865 1", difficult copy due to the strong BC station, "Almighty God is an American, loves the Capitalist system and hates poor people".
1920 UTC, 14,624 kHz, second sending, difficult copy due to low audio.
1940 UTC, 13,524 kHz, "865 865 865 1", DK/GC "363 48" x 2, best sending of the three despite the swept carrier QRM and SLT "C" on the HF side,

Thursday Schedule, 2010 UTC Start:-
2-May-13:- 2010 UTC, 11,539 kHz, "553 553 553 000", S9+ with *excellent* audio, although
one is wary of using this word with regard to E07!
2030 UTC, 10,547 kHz, second sending.

9-May-13:- 2010 UTC, 11,539 kHz, calling "553 553 553 1" for a full message, DK/GC "243 70" x 2. Interference from a BC station on 11,540, not noted last time.
2030 UTC, 10,547 kHz, second sending.
2050 UTC, 9,388 kHz, third sending inside 31 metre band, severe BC interference, difficult copy.

16-May-13:- 2010 UTC, 11,539 kHz, "553 553 553 1", DK/GC "243 70" x 2, same as on the 9th. S9+ with good audio. No sign of the BC station which was such a pain last week.
2030 UTC, 10,547 kHz, second sending, S9+ with - dare I say it - *excellent* – audio!
2050 UTC, 9,388 kHz, third sending, strong signal over-riding the BC station on the HF side.

30-May-13:- 2010 UTC, 11,539 kHz, "553 553 553 000", S9+ with good audio.
2030 UTC, 10,547 kHz, second sending, again S9+ with good audio.

6-June-13:- 2010 UTC, 12,213 kHz, "273 273 273 000", S9+ with reasonable audio.
2030 UTC, 10,714 kHz, second sending, strong FSK signal on close frequency making for difficult copy; the same signal which also causes problems for the 2200 UTC HM01 transmissions on 10,715.

13-June-13:- 2010 UTC, 12,213 kHz, "273 273 273 000", S9+, good audio.
2030 UTC, 10,714 kHz, second sending, S9+, strong enough to flatten all opposition!
Wednesday E07a SSB Schedule, 2000 UTC Start:-
1-May-13:- 2020 UTC, 7,473 kHz, second sending, "147 147 147 1 35158". DK/GC "5584 80" x 2. Very strong SSB signal. Ended with "000 000" just after 2029 UTC.
2040 UTC, 5,773 kHz, third sending, S9+.

8-May-13:- 2000 UTC, 8,173 kHz, "147 147 147 000", S9+.
2020 UTC, 7,473 kHz, second sending, also S9+.

22-May-13:- 2000 UTC, 8,173 kHz, "147 147 147 1 35158". DK/GC "5584 80" x 2. Return of the message heard on the 1st. S9+.
2020 UTC, 7,473 kHz and 2040 UTC, 5,773 kHz, repeats, both S9+.

19-June-13:- 2000 UTC, 8,173 kHz, "147 147 147 1 32915", DK/GC "7123 69" x 2. The usual S9+ SSB signal.
2020 UTC, 7,473 kHz and 2040 UTC, 5,773 kHz, repeat transmissions, both S9+.

Saturday E07a SSB Schedule, 0800 UTC Start:-
4-May-13:- 0800 UTC, 12,177 kHz, "148 148 148 000", strong SSB signal.
0820 UTC, 13,477 kHz, second sending, weaker.

11-May-13:- 0800 UTC, 12,177 kHz, “148 148 148 000”.

18-May-13:- 0800 UTC, 12,177 kHz and 0820 UTC, 13,477 kHz, “148 148 148 000”.

25-May-13:- 0800 UTC, 12,177 kHz, a “full message” for a change this morning, “148 148 148 1 60007”. DK/GC “6607 91”, weak signal.
0820 UTC, 13,477 kHz, second sending, much stronger.
0840 UTC, 14,877 kHz, third sending, weak again, very weak, only just readable.

8-June-13:- 0800 UTC, 13,373 kHz, “338 338 338 000”.
0820 UTC, 14,373 kHz, second sending.

15-June-13:- 0800 UTC, 13,373 kHz and 0820 UTC, 14,373 kHz, both good signals, “338 338 338 000”.

22-June-13:- 0800 UTC, 13,372 kHz,and a “full message” meaning three frequencies. “338 338 338 1 18773”, DK/GC “917 77” x 2, S7 to S8.
0820 UTC, 14,373 kHz, second sending, weaker, S5.
0840 UTC, 14,873 kHz, third sending, and I expected this to be on *15*,873 - but it wasn't, it was only half a megacycle higher! Weakest signal of the three transmissions.

RNGB’s logs

E07 May log:

Weds 1st	17:00	14763	‘731’ 000
	17:20	13363	‘731’ 000
	19:00	14812	‘845’ 000
Thurs 2nd	20:10	11539	‘553’ 000
Weds 15th	17:00	14763	‘731’ 000
	19:00	14812	‘845’ 000
Mon 27th	19:00	14812	‘845’ 1 328 111 29219 62206 57584 34743.....
	19:40	11512	‘845’ 1 328 111 29219 62206 57584 34743.....
Weds 29th	17:00	14763	‘731’ 1 312 116 55427 37891 32439 47342.....
	19:00	14812	‘845’ 1 328 111 29219 62206 57584 34743.....
Thurs 30th	20:10	11539	‘553’ 000

E07 June log:

Sun 9th	17:40	12142	‘841’ 1 312 116 55427 37891 32439 47342.....
Weds 12th	17:00	14842	‘841’ 000
	17:20	13442	‘841’ 000
	19:00	15824	‘865’ 000
Sun 16th	17:40	12142	‘841’ 1 538 116 35387 65922 22560 36891.....
Mon 17th	19:40	13524	‘865’ 1 363 48 67727 36605 56798 87741.....52073
Mon 24th	19:00	15824	‘865’ 000
Weds 26th	17:00	14842	‘841’ 000
	19:00	15824	‘865’ 000

Others’ Logs

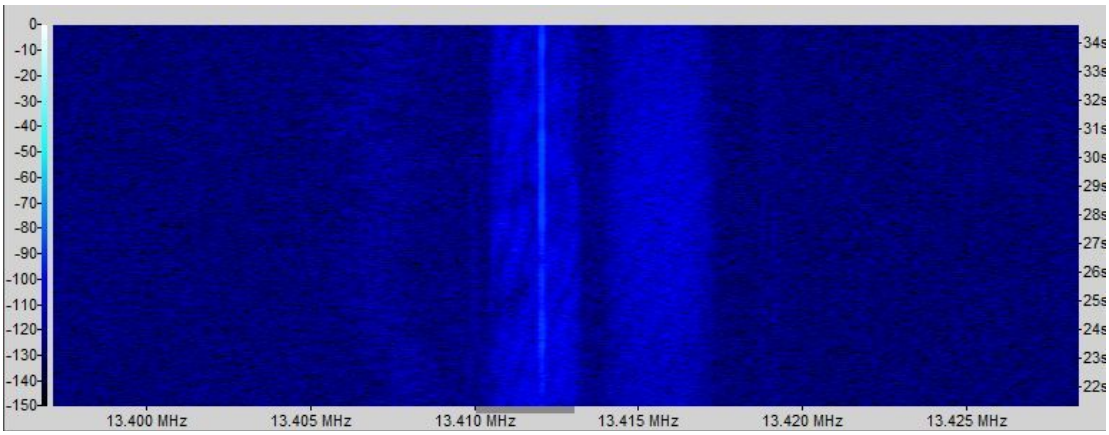
<u>May2013:</u>

9388kHz2050z	16/05[553 1 243 70 42511 … 01544 000 000] Very strong, BCQRM3 QSB3	(9m36s)	PLdn, FR	THU
10547kHz 2030z	02/05[553 000] Very strong signal, weak noise		FR, Spectre	THU
2030z	09/05 Very weak, odd characters audible		PLdn	THU
2030z	16/05[553 1 243 70 42511 … 01544 000 000] Very strong	(9m36s)	PLdn, FR	THU
2030z	30/05[553 000] Strong	(2m14s)	Fanis, PLdn	THU
11512kHz1940z	22/05[845 1 328 111 29219 … 05997 000 000] Fair	(13m46s)	PLdn	WED
1940z	27/05[845 1 328 111 29219`... `05992 000 000] QSA4		DanAR, M8	MON
1940z	29/05[845 1 msg 000] 1948z QSA1 OM		Fanis	WED
11539kHz2010z	02/05[553 000] Strong	(2m14s)	FR,PLdn, JkC	THU
2010z	09/05 Strong carrier, weak audio		PLdn	THU
2010z	16/05[553 1 243 70 42511 … 01544 000 000] Very strong	(9m36s)	PLdn, FR	THU

553 1 243 70
42511 81646 40283 90683 43408
41380 14086 26999 40814 14208
05555 88844 87073 61355 99562
02571 46413 04302 25880 68098
58869 06761 77857 96748 93366
32963 27042 83921 25079 47211
25115 18387 43368 05755 43217
03233 32723 90705 07301 82717
45595 04119 44100 33696 43311
52649 36510 10150 54561 23789
64294 56046 59264 82004 65870
96588 72564 76134 64718 72605
75008 72655 28397 68240 01680
52654 55281 21050 16990 01544
000 000 *Courtesy FR*

2010z	23/05[553 000] Strong	(2m14s)	PLdn	THU
2010z	30/05[553 000] Strong	(2m14s)	JkC, Fanis, PLdn	THU
12163kHz1740z	26/05[731 1 312 116 55427 … 96234 000 000] 1754z QSB2 S9+30		MP	SUN

13363kHz1720z	12/05[731 000]1722z S9+10		MP, M8	SUN
1720z	19/05[731x3 00000.....]1722z S9		M8	SUN
1720z	26/05[731 1 312 116 55427 … 96234 000 000] 1734z QSB2 S9+30		MP	SUN
1720z	29/05[731 1 312 116 55427 … 9n224 000 000] Strong, QRM2	(14m18s)	PLdn	WED
13403kHz1720z	05/05[731x3 00000.....]1742 S9		M8	SU



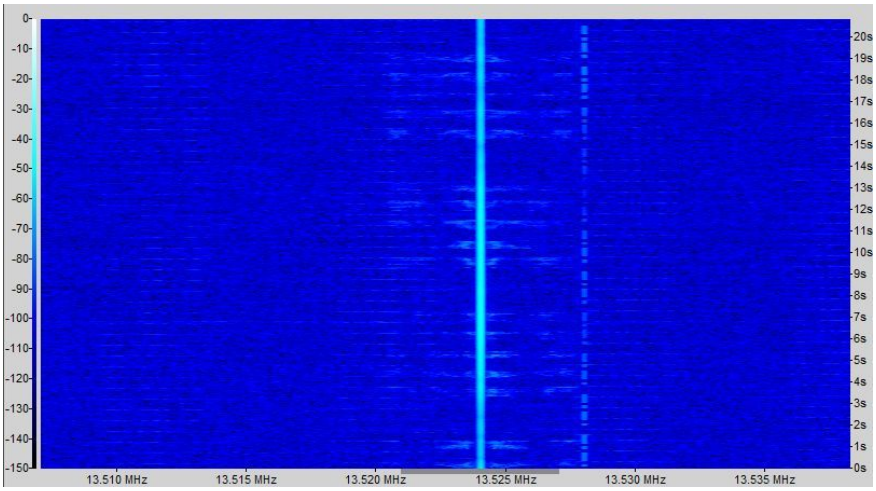
13412kHz1920z	06/05[845 845 845 000] 1922z Fair XJTQRM3 QSB3		Spectre	MON
1900z	08/05[845 000] Odd character within XJTQRM4/5		PLdn	WED
1900z	13/05[845 000]		HJH, PLdn	MON
1920z	15/05[845 000] Strong XJTQRM3/4	(2m14s)	PLdn	WED
1920z	20/05[845 000] Very strong XJTQRM3/4	(2m14s)	PLdn	MON
1920z	22/05 Odd character, XJTQRM4/5		PLdn	WED
1920z	27/05[845x3 1 328 111.....000 000]1933z S7 QRM		M8	MON
1920z	29/05 barely audible] 1928z Strong QRM OM		Fanis	WED
14763kHz1700z	12/05[731 000]1702z S9+10		MP, M8	SUN
1700z	26/05[731 1 312 116 55427 … 96234 000 000] 1714z S9+10		MP	SUN

731 1 312 116
55427 37891 32439 47342 63409 77020 25766 13229 17252 13815
83935 66699 10650 19486 44948 87313 29613 69648 29479 38016
93097 88440 69626 49436 22618 01307 06442 65498 10157 16943
24351 61176 22761 46790 01836 66254 12610 50457 77676 08218
30174 27655 06976 00696 37600 47887 42301 10538 08659 14620
30777 41849 07003 07501 44046 71051 94532 13000 64569 21045
04362 69464 57326 63194 97495 23169 57337 29434 73803 05104
99312 58113 34244 50329 79351 51391 37429 88408 68536 28961
77228 90573 75250 47384 04647 39137 54050 69263 70487 20701
82501 72936 84092 09747 83882 18824 26163 16175 36033 79510
34050 49018 11871 05187 88558 05339 56878 91840 40637 43512
55615 53420 08785 55971 00721 96234
000 000 *Courtesy MP*

14812kHz1900z	06/05[845x3 000.....]1902z S9		M8, Spectre	MON
1900z	08/05[845 000] Very strong		CH10,PLdn	WED
1900z	13/05[845 000] Very strong	(2m14s)	PLdn	MON
1900z	15/05[845 000] Very strong	(2m14s)	PLdn, M8	WED
1900z	20/05[845 000] Very strong	(2m14s)	PLdn	MON
1900z	22/05[845 1 328 111 29219 … 05997 000 000] Fair	(13m46s)	PLdn	WED
1900z	27/05[845x3 1 328 111.....000 000]1913z S9		M8	MON

June2013:

10714kHz2030z	06/06[273 000]2032z Strong QRM1 QSB1		JkC	THU
2030z	13/06[273 000] Very strong	(2m15s)	PLdn	THU
2030z	20/06[273 000] Strong	(2m15s)	PLdn	THU
12213kHz2010z	06/06[273 000]2012z Strong QRM1 QSB1		JkC	THU
2010z	13/06[273 000] Strong	(2m15s)	PLdn, FR	THU
2010z	20/06[273 000] Strong	(2m15s)	PLdn, FR	THU
13524kHz1940z	03/06[865 1 489 110 92660 ... 25258 000]1953z Strong		JkC, PLdn	MON
1940z	05/06[865 1 489 110 92660 … 25258 000 000]Strong signal, weak noise, some fading		FR, PLdn	WED



Note C beacon +4kHz up from E07 1940z 05/06

13524kHz1940z	17/06[865 1 363 48 67727 … 52073 000 000] Fair, QRM2	(7m24s)	PLdn	MON
1940z	19/06[865 1 363 48 67727 … 52073 000 000] Strong	(7m24s)	PLdn, JkC	WED
1920z	26/06[865 000] Fair		PLdn	WED
14624kHz1920z	03/06[865 1 489 110 92660 … 25258 000 000]Strong Carrier, wk audio	(13m48s)	PLdn	MON
1920z	05/06[865 1 489 110 92660 … 25258 000 000]Very strong signal, weak noise, some fading		FR	WED
1920z	10/06[865 865 865 000 R2m] 1922z QSA5 QRM5 QRN5 QSB5		tiNG	MON
1920z	17/06[865 1 363 48 67727 … 52073 000 000] Strong	(7m24s)	PLdn	MON
1920z	19/06[865 1 363 48 67727 … 52073 000 000] Fair	(7m24s)	PLdn, JkC	WED
1920z	24/06[865 865 865 000] Fair, QRN2		PLdn	MON
15824kHz1900z	03/06 BCQRM5, odd character only		PLdn	MON
1900z	05/06[865 1 489 110 92660 … 25258 000 000]Strong signal, weak noise, some fading		FR	WED

865 1 489 110
92660 00365 65945 35589 77218 24160 60687 96424 53068 71676
89514 43005 38464 37007 01391 78948 33702 40134 26104 41614
67557 93074 02563 22308 33589 79413 64451 60167 81889 01397
88628 88026 72540 96334 41236 76145 39049 77116 97483 94328
24145 73815 35379 19092 18117 71821 52104 66821 72921 70450
95873 51277 63694 99130 18100 66285 99893 72480 24397 04224
80096 34179 46694 84890 52387 65729 67316 19664 19329 29991
42563 56417 12666 79147 37722 54631 17536 99894 42186 14313
63345 82833 93715 14017 83025 89542 35134 03936 74664 57732
96109 77995 98951 17153 05500 30019 02591 19162 10536 26386
85797 92315 14836 83795 37116 02764 82671 53601 68225 25258
000 000 *Courtesy FR*

1900z	17/06 BCQRM5, odd character only		PLdn	MON
1900z	19/06[865 1 363 48 67727 ... 52073 000]1907z Strong QRM3 QSB1		JkC	WED

E07 15824kHz/14624kHz/13524kHz 1900z/1920z/1940z 19/6
865 1 363 48
67727 36605 56798 87741 65732 47244 32651 67308 39802 67918
00228 18770 77490 10203 18664 66984 50450 06410 37355 69855
92928 91563 28714 70698 34946 69591 34361 89760 01293 23759
20452 07291 28808 30624 39580 02664 32033 94717 20209 25921
92828 39192 22749 76024 91491 75626 24611 52073
000 000 *Courtesy JkC*

E07a
May2013:

5773kHz2040z	01/05[147 1 35158 5584 80 44021 … 07252 000 000] Very strong	(9m25s)	PLdn	WED
2040z	22/05[147 1 35158 5584 80 44021 … 07252 000 000] Very strong [prev sent 01/05/2013]	(9m25s)	PLdn	WED
2040z	29/05[147 1 32915 7123 69 31801 … 70782 000 000] Very strong	(8m30s)	PLdn	WED
7437kHz0430z	02/05[411 1 35158 5584 80 44021 … 07252 000 000] Very strong	(9m25s)	PLdn	THU
0430z	09/05[411 000] Strong	(2m07s)	Spectre	THU
0430z	16/05[411 000] Very strong	(2m06s)	PLdn	THU
0430z	23/05[411 1 35158 5584 80 44021 … 07252 000 000] Very strong [prev sent 02/05/2013]	(9m25s)	PLdn	THU
0430z	30/05[411 1 32915 7123 69 31801 … 70782 000 000] Very strong	(8m30s)	PLdn	THU
7473kHz2020z	01/05[147 1 35158 5584 80 44021 … 07252 000 000] Very strong	(9m25s)	PLdn	WED
2020z	08/05[147 000] Very strong	(2m07s)	Spectre	WED
2020z	15/05[147 000] Very strong	(2m05s)	PLdn, CH10	WED
2020z	22/05[147 1 35158 5584 80 44021 … 07252 000 000] Very strong [prev sent 01/05/2013]	(9m25s)	Spectre, PLdn	WED
2020z	29/05[147 1 32915 7123 69 31801 … 70782 000 000] Very strong	(8m30s)	PLdn	WED
8137kHz0450z	02/05[411 1 35158 5584 80 44021 … 07252 000 000] Very strong	(9m25s)	PLdn	THU
0450z	09/05[411 000] Very strong	(2m07s)	Spectre, JkC	THU
0450z	16/05[411 000] Very strong	(2m06s)	PLdn	THU
0450z	23/05[411 1 35158 5584 80 44021 … 07252 000 000] Very strong [prev sent 02/05/2013]	(9m25s)	PLdn	THU
0450z	30/05[411 1 32915 7123 69 31801 … 70782 000 000] Very strong	(8m30s)	PLdn	THU

8173kHz2000z	01/05[147 1 35158 5584 80 44021 … 07252 000 000] Very strong	(9m25s)	PLdn	WED
2000z	08/05[147 000] Very strong	(2m07s)	PLdn	WED
2000z	15/05[147 000] Very strong	(2m05s)	PLdn, CH10	WED
2000z	22/05[147 1 35158 5584 80 44021 … 07252 000 000] Very strong [prev sent 01/05/2013]	(9m25s)	PLdn, GD	WED
2000z	29/05[147 1 32915 7123 69 31801 … 70782 000 000] Very strong	(8m30s)	PLdn, JkC	WED

147 1 32915 7123 69
31801 78272 70821 09475 25433 25303 45083 70117 41378 13044
59090 19570 43356 54478 64781 79076 61336 49361 64511 13135
81872 63409 26689 29738 27761 92460 01482 24996 20807 80576
94495 46490 90894 75391 52931 37784 71557 72643 76004 19869
27702 94996 35545 04875 17631 07717 67090 26489 60163 78292
88622 73160 16524 40151 20710 11980 55792 98928 24955 90012
82476 98741 73457 56633 34694 32647 82702 19045 70782
000 000 *Courtesy JkC*

9137kHz0510z	02/05[411 1 35158 5584 80 44021 … 07252 000 000] Very strong	(9m25s)	PLdn	THU
0510z	23/05[411 1 35158 5584 80 44021 … 07252 000 000] Very strong [prev sent 02/05/2013]	(9m25s)	PLdn	THU
0510z	30/05[411 1 32915 7123 69 31801 … 70782 000 000] Very strong	(8m30s)	PLdn	THU
11082kHz 1530z	10/05[101 101 101 000] 1532z Fair QRN3 QSB3		Spectre	FRI
1530z	17/05[101 101 101 000]		FN	FRI
1530z	24/05[148 1 60007 6607 9198232 ... 90406 000 000]		H-FD	FRI
12177kHz0800z	04/05[148 000] Strong	(2m05s)	PLdn	SAT
0800z	11/05[148 000] Weak & Noisy	(2m05s)	PLdn	SAT
0800z	18/05[148 000] Strong	(2m05s)	PLdn	SAT
0800z	25/05 NRH		PLdn	SAT
12182kHz 1510z	10/05[101 101 101 000] 1512z Fair QRN3 QSB3		Spectre	FRI
1510z	17/05[101 101 101 000]		FN	FRI
1510z	24/05[148 1 60007 6607 9198232 ... 90406 000 000]		H-FD	FRI
13477kHz0820z	04/05[148 000] Strong	(2m14s)	PLdn	SAT
0820z	11/05[148 000] Strong, localQRM	(2m05s)	PLdn	SAT
0820z	18/05[148 000] Strong, localQRM	(2m05s)	PLdn	SAT
0820z	25/05[148 1 60007 6607 9198232 ... 90406 000 000] Fair, QRM2	(10m01s)	PLdn	SAT
14877kHz0840z	25/05 NRH		PLdn	SAT

June2013:

5773kHz2040z	19/06[147 1 32915 7123 69 31801 … 70782 000 000] Very strong Rpt of 29/05	(8m30s)	PLdn, JkC	WED
2040z	26/06[147 1 60108 456 96 15747 … 94242 000 000] Very strong 1kHETQRM2 first 3 mins.	(10m21s)	PLdn	WED
7437kHz0430z	06/06[411 000] Very strong	(2m10s)	PLdn	THU
0430z	13/06[411 000] Very strong	(2m12s)	PLdn	THU
0430z	20/06[411 1 32915 7123 69 31801 … 70782 000 000] Very strong, BCQRM2 Rpt of 30/05	(8m30s)	PLdn	THU
0430z	27/06[411 1 60108 456 96 15747 … 94242 000 000] Very strong	(10m21s)	PLdn	THU
7473kHz2020z	05/06[147 000] Very strong	(2m08s)	PLdn	WED
2020z	12/06[147 000] Very strong	(2m12s)	DanAr, PLdn	WED
2020z	19/06[147 1 32915 7123 69 31801 … 70782 000 000] Very strong Rpt of 29/05	(8m30s)	PLdn, JkC	WED
2020z	26/06[147 1 60108 456 96 15747 … 94242 000 000] Very strong	(10m21s)	PLdn	WED
8137kHz0450z	06/06[411 000] Very strong	(2m10s)	PLdn	THU
0450z	13/06[411 000] Very strong	(2m12s)	PLdn	THU
0450z	20/06[411 1 32915 7123 69 31801 … 70782 000 000] Very strong , TTYQRM2 Rpt of 30/05	(8m30s)	PLdn	THU
0450z	27/06[411 1 60108 456 96 15747 … 94242 000 000] Very strong	(10m21s)	PLdn	THU
8173kHz2000z	05/06[147 000] Very strong	(2m08s)	PLdn	WED
2000z	12/06[147 000] Very strong	(2m12s)	PLdn	WED
2000z	19/06[147 1 32915 7123 69 31801 … 70782 000 000] Very strong Rpt of 29/05	(8m30s)	PLdn, JkC	WED
2000z	26/06[147 1 60108 456 96 15747 … 94242 000 000] Very strong	(10m21s)	PLdn	WED
9137kHz 0510z	20/06[411 1 32915 7123 69 31801 … 70782 000 000] Very strong Rpt of 30/05	(8m30s)	PLdn	THU

E07a 8173kHz/7473kHz/5773kHz 2000z/2020z/2040z 19/6
147 1 32915 7123 69
31801 78272 70821 09475 25433 25303 45083 70117 41378 13044
59090 19570 43356 54478 64781 79076 61336 49361 64511 13135
81872 63409 26689 29738 27761 92460 01482 24996 20807 80576
94495 46490 90894 75391 52931 37784 71557 72643 76004 19869
27702 94996 35545 04875 17631 07717 67090 26489 60163 78292
88622 73160 16524 40151 20710 11980 55792 98928 24955 90012
82476 98741 73457 56633 34694 32647 82702 19045 70782
000 000 *Courtesy JkC*

0510z	27/06[411 1 60108 456 96 15747 … 94242 000 000] Very strong	(10m21s)	PLdn	THU
12182kHz1510z	14/06[101 101 101 000]		GD	FRI

13373kHz	0800z	01/06[338 000] Weak, QRM4	(2m10s)	PLdn	SAT
	0800z	08/06[338 000] Very strong	(2m10s)	PLdn	SAT
	0800z	15/06[338 000] Very strong	(2m10s)	PLdn, GD	SAT
	0800z	22/06[338 1 18773 917 77 51132 ... 97507 000 000] Fair	(9m10s)	PLdn, GD	SAT
	0800z	29/06[338 000] Weak		PLdn	SAT
14373kHz	0820z	01/06[338 000] Strong	(2m10s)	PLdn	SAT
	0820z	08/06[338 000] Very strong	(2m10s)	PLdn	SAT
	0820z	15/06[338 000] Very strong	(2m10s)	PLdn	SAT
	0820z	22/06[338 1 18773 917 77 51132 ... 97507 000 000] Fair	(9m10s)	PLdn, GD	SAT
	0820z	29/06[338 000] Strong		PLdn	SAT
15873kHz	0840z	22/06 NRH		PLdn	SAT

RNGB's Logs

E07a May log:

Weds 1st	20:00	8173	'147' 1 35158 5584 80 44021 76205 27630 98823.....73424 07252
Sat 4th	08:00	12177	'148' 000
Weds 15th	20:00	8173	'147' 000
Sat 25th	08:00	12177	'148' 1 60007 6607 91 98232 35339 72953 90406
	08:40	14877	'148' 1 60007 6607 91 98232 35339 72953 90406
Weds 29th	20:00	8173	'147' 1 32195 7123 69 31801 78272 70821 09475.....19045 70782 000 000

E07a June log:

Sat 8th	08:20	14373	'338' 000
Weds 12th	20:00	8173	'147' 000
Friday 14th	15:10	12182	'101' 000
Sat 22nd	08:00	13373	'338' 1 18773 917 77 51132 28602 91380.....14393 97507
Weds 26th	20:00	8173	'147' 1 60108 456 96 15747 24046 99981 00242…..22495 94242

E11[III]

E11 log May/June:

4909kHz	0900z	16/05 [248/00] Weak	RNGB	THU
	0900z	08/06 [248/00] Weak	RNGB	SAT
	0900z	13/06 [248/00] Weak	RNGB	THU
	1445z	19/06 [287/00] R3m Out1448z Very Weak QRM1 QSB4	JkC	WED
6280kHz	0820z	02/05 [438/00] Weak	RNGB	THU
	0820z	06/05 [438/00] Out 0823z Fair	Hans, Spectre	MON
	0820z	27/05 [438/00]	RNGB	MON
	0820z	10/06 [438/00] Fair	RNGB	MON
	0820z	13/06 [438/00] Fair	RNGB	THU
	0820z	20/06 [438/00]	RNGB	THU
	0820z	24/06 [438/00] Good	RNGB	MON
8088kHz	1730z	02/05 [416/00] Out 1733z S2	Malc	THU
	1730z	09/05 [416/00]	Chris, Spectre	THU
	1730z	16/05 [416/00] R3m Out 1733z Strong QRM2 QSB2	JkC	THU
	1730z	06/06 [416/00] Out 1733z S1	Malc	THU
	1730z	20/06 [416/00] Very weak	Chris, Fox	THU
9200kHz	2000z	03/05 [576/00]	JkC	FRI
	2000z	10/05 [576/00] 2003z Fair QRN3 QSB3	Spectre	FRI
	2000z	14/06 [576/00]	RNGB	FRI
	2000z	21/06 [576/00] Good	RNGB	FRI
9610kHz	1045z	07/05 [469/00] 1048z Fair QRN3 QSB3	Spectre	TUE
	1045z	18/06 [469/00]	RNGB	TUE
10800kHz	0450z	06/05 [416/00] Out 0453z Weak/Fair	Hans	MON
12924kHz	0830z	03/05 [649/00] RST51	Brixmis, Malc	FRI
	0830z	06/05 [649/00] Out 0833z V.Weak	Hans, Spectre	MON
	0830z	10/05 [649/00] Very strong signal	Fox	FRI
	0830z	17/05 [649/00] Very strong signal	Fox	FRI
	0830z	03/06 [649/00] Out 0833z S9	Marco	MON
	0830z	17/06 [649/00]	RNGB	MON
	0830z	21/06 [649/00] Very strong	Fox	FRI
	0830z	24/06 [649/00] Good	RNGB	MON
13424kHz	0545z	01/05 [348/00] Good	RNGB	WED
	0645z	02/05 [517/00]	RNGB	THU
	0545z	03/05 [348/00] Good	RNGB	FRI
	0645z	16/05 [517/00] Out 0648z S2	Malc	THU
	0545z	10/05 [348/00] Medium signal	Fox	FRI
	0545z	15/05 [348/00]	RNGB	WED
	0545z	17/05 [348/00] Strong	Fox	FRI
	0645z	28/05 [517/00] Fair	RNGB	TUE
	0645z	30/05 [517/00]	RNGB	THU

	0645z	11/06 [517/00]	RNGB	TUE
	0645z	13/06 [517/00]	RNGB	THU
	0545z	14/06 [348/00] Fair	RNGB	FRI
	0645z	25/06 [517/00] Very strong	Fox	TUE
13427kHz	0900z	01/05 [534/00] Good	RNGB	WED
	0900z	15/05 [534/00] Fair	RNGB	WED
	0900z	27/05 [534/00] Fair	RNGB	MON
	0900z	29/06 [534/00]	RNGB	WED
	0900z	03/06 [534/00] Out 0903z QSB3 S9	Marco	MON
	0900z	10/06 [534/00]	RNGB	MON
	0900z	12/06 [534/00]	RNGB	WED
	0900z	24/06 [534/00] Fair	RNGB	MON
14753kHz	0710z	03/05 [633/00] Fair	RNGB, Malc	FRI
	0710z	07/05 [633/00]	Malc	TUE
	0710z	28/05 [633/00]	RNGB	TUE
	0710z	31/05 [633/00]	RNGB	FRI
	0710z	18/06 [633/00]	RNGB	TUE
	0710z	21/06 [633/00]	RNGB	FRI
	0710z	25/06 [633/00] Strong signal	Fox	TUE
15632kHz	0745z	02/05 [335/00] Good	RNGB	THU
	0745z	14/05 [335/00]	RNGB, Guy	TUE
	0745z	16/05 [335/00]	RNGB	WED
	0745z	11/06 [335/00]	RNGB	TUE
	0745z	18/06 [335/00]	RNGB	TUE
	0745z	20/06 [335/00]	RNGB	THU
16335kHz	1540z	05/05 [228/00]	RNGB	SUN
	1540z	12/05 [228/00] Out 1543z	Marco	SUN
	1540z	13/05 [228/00] R3m Out 1543z Strong QRM2 QSB2	JkC	MON
	1155z	15/05 [718/00]	RNGB	WED
	1155z	16/05 [718/00] Out 1158z	Malc	THU
	1540z	19/05 [228/00] Out 1543z S7	Malc	SUN
	1540z	03/06 [228/00] Out 1543z S9+10	Marco	MON
	1540z	16/06 [228/00] Weak	RNGB	SUN
16388kHz	1110z	06/05 [954/34 59014 31089 77203 95518 72549…..18925] Out 1119z	Malc	MON
17441kHz	1045z	07/05 [576/00] 1048z Fair QRN3 QSB3	Spectre	TUE
	1045z	18/06 [576/00] Good	RNGB	TUE

E11a log May/June:

4909kHz	0900z	02/05 [240/36 38262 31907 73114 76366 62385…….] Weak	RNGB	THU
	0900z	20/06 [248/36 ….] too weak to copy msg	RNGB	THU
	0900z	22/06 [248/36 00831 56774]	Fritz	SAT
6280kHz	0820z	16/05 [438/36 70290 39135 20033 90966 43659…..42629]	RNGB	THU
	0820z	03/06 [434/32 87799 74540 78186 13398 62397…..10114]	Marco	MON
9200kHz	2000z	24/05 [573/35 49899 15619 18394 36573 20782…..35010] Good	RNGB	FRI
	2000z	07/06 [570/35 15854 11482 33568 85467 50375…..84992] Good	RNGB	FRI
9610kHz	1045z	14/05 [464/34 85776 35834 66957 79631 92875…..33266] Fair	RNGB	TUE
	1045z	15/05 [464/34 85776 etc] repeat of Tuesday	RNGB	WED
	1045z	26/06 [463/38 54753 53558 74679 31753 83265…..43941] Good	RNGB	WED
10487kHz	1710z	03/05 [959/20 91257 97965 57806 51472 93612…..51453]	JkC	FRI
	1710z	06/05 [955/28 98637 34680 80999 67460 66640…..30850] S1	Malc	MON
	1710z	10/05 [953/30 87704 ... 05785 Out] 1719z Fair QRN3 QSB3	Spectre	FRI
	1710z	17/05 [958/31 61456 53652 53939 13160 53655…..84429] Strong	Fox	FRI
	1710z	20/05 [959/23 46428 62301 85876 75195 64952…..75368]	Thomas, Chris	MON
	1710z	24/05 [955/30 66467 29822 91430 81537 56245.....93379]	RNGB	FRI
	1710z	10/06 [953/25 33752 52655 87180 50772 53251…..01086]	RNGB	MON
	1710z	14/06 [957/20 96582 13981 72336 84252 83890…..90239]	RNGB	FRI
	1710z	24/06 [957/27 90684 45397.....36022] Out 1718z S4	Malc	MON
12924kHz	0830z	27/05 [647/38 34136 20866 45458 55000 67562…..83401] Fair	RNGB	MON
	0830z	31/05 [647/38 34136 etc] repeat of Monday	Marco	FRI
	0830z	10/06 [644/31 84266 94842 77764 32753 90709…..48648] Good	RNGB	MON
	0830z	14/06 [644/31 84266 94842…etc] repeat of Monday	Fox, Marco	FRI
13424kHz	0545z	29/05 [346/34 92237 20803 81450 53910 72367…..11749] Strong	RNGB	WED
	0645z	18/06 [518/36 26210 75702 53940 20366 17884…..23501] Good	RNGB	TUE
	0645z	20/06 [518/36 26210 etc] repeat of Tuesday	RNGB	THU
13427kHz	0900z	06/06 [533/35 56617 48891 84031 52947 75900…..70775] Out 0910z	Spectre	MON
	0900z	08/05 [533/35 56617…..70775]	Kopf	WED
	0900z	17/06 [537/35 46362 58842 86014 74792 40912…..71766]	RNGB	MON

13722kHz	1400z	04/05 [98?/10 45586 84968 39624 94928 07382…..92388] late intercept	RNGB	SAT
	1400z	28/05 [982/10 30594 26373 46420 86255 00693…..88748] Good	RNGB	TUE
	1400z	08/06 [981/10 83988 13123 02435 54264 93284…..44732]	RNGB	SAT
	1400z	11/06 [984/10 26586 17238 65380 11281 75511…..02843] Good	RNGB	TUE
	1400z	15/06 [987/10 54808 11369 63191 49095 58984…..34606] Good	RNGB	SAT
	1400z	18/06 [981/10 77452 54665 97271 32306 69950…..65535]	RNGB	TUE
14518kHz	1810z	04/05 [986/10 65468 10777 29707 12194 96574…..36020] Fair	Chris	SAT
	1810z	07/05 [982/10 86987 25698.....02147] RST55	Brixmis	TUE
	1810z	11/05 [981/10 71505 17757…..14290]	Brixmis	SAT
	1810z	14/05 [986/10 92460 83131 47043 03991 40543…..49292] Good	RNGB, JkC, Gary	TUE
	1810z	18/05 [982/10 28987 34152 27514 60554 13370…..19339]	Thomas	SAT
	1810z	25/05 [987/10 52953 14658 85603 77518 51715…..21007] Out 1815z	Malc, Marco	SAT
	1810z	28/05 [986/10 27556 22470 40083 33557 58700…..46661] Weak	RNGB, Thomas	TUE
	1810z	01/06 [983/10 67187 82083 21871 79996 93677…..12393]	Malc	SAT
	1810z	04/06 [982/10 54318 62704 74346 90100 89065…..18669]	JkC	TUE
	1810z	11/06 [988/10 82733 00661 10094 41782 10908…..79737]	RNGB	TUE
	1810z	15/06 [988/10 79731 29776 32841 41430 59634…..61801]	RNGB	SAT
	1810z	18/06 [982/10 05375 87449 85968 19497 52016…..81928]	RNGB	TUE
	1810z	25/06 [982/10 28136 43611 47960 06881 67501…..83853]	Gary	TUE
14753kHz	0710z	14/05 [631/33 19387 64936 64167 57143 86877…..37784]	RNGB, Guy	TUE
	0710z	17/05 [631/33 19387 etc] repeat of Tuesday	Fox	FRI
	0710z	11/06 [639/32 43865 35437 87627 34526 29073…..21366]	RNGB	TUE
	0710z	14/06 [639/32 43865 35437… etc] repeat of Tues	Fox	FRI
16335kHz	1155z	02/05 [712/31 60583 12960 56286 54856 82999…..17202] Good	RNGB	THU
	1540z	20/05 [227/35 78821 ... 11916] Out 1550z Weak QRM2	JkC	MON
	1540z	26/05 [227/35 78821 75834 27253 73457 08042…..11916]	Marco	SUN
	1155z	12/06 [713/35 14510 97559 27303 30153 97892…..11101] Fair with QSB	RNGB	WED
	1155z	13/06 [713/35 14510 97559…..etc] repeat of Weds	RNGB	THU
	1540z	24/06 [222/32 38089 65712 88589 35336 19236…..57071] Fair	RNGB, Malc	MON
16388kHz	1110z	03/05 [958/31 72480 57579 73706 89154 85104…..46131] Out 1119z S9	Malc	FRI
	1110z	20/05 [956/36 48399 50286 53295 69650 01378…..34937]	Marco, Thomas	MON
	1110z	10/06 [952/32 83791 71136 43415 44065 79151….. 97177] Fair	RNGB	MON
	1110z	14/06 [954/31 84899 22532 03303 96526 82319…..00569] Weak	RNGB	FRI
	1110z	24/06 [950/32...FADED.....]1119z	Malc	MON

E17z
May2013:

RNGB writes, "A very familiar message sent today by E17z 674 209 5 46062 68672 97478 39685 30485"
See below THE S06s messages:
Tues 2 Oct 2012 6930kHZ 374 915 6 46062 68672 94748 39685 30485 96632
Sat 27 Mar 2010 7340kHz 893 407 5 46062 68672 97478 39685 30485
Weds 18 Jul 2012 6755kHz 471 203 5 46062 68672 97478 39685 30485
Thurs 1 Nov 2012 12952kHz 167 209 5 46062 68672 97478 39685 30485
Weds 21 Nov 2012 6420kHz 967 201 5 46062 68672 97478 39685 30485
Weds 16 Jan 2013 6420kHz 967 480 5 46062 68672 97478 39685 30485
Friday 4 Jan 2013 5810kHz 278 549 6 46062 68672 97478 39685 30485 96632
Thurs 17 Nov 2011 12952khz 167 945 8 46062 68672 97478 39685 30485 96632 52537 53317
Tues 13 Dec 2011 5250kHz 371 265 8 46062 68672 97478 39685 30485 96632 52537 53317

12830kHz	0810z	02/05[674 209 5 46062 68674 97478 29685 20489 209 5 00000(s)] 0815z Weak QRN4 QSB3	Spectre, M8	THU
	0810z	09/05[674 209 5 46062 68674 97478 29685 20489 209 5 00000(s)] 0815z Weak QRN4 QSB3	Spectre THU	
	0810z	16/05[674 902 5 89562 15864 76184 95264 30567 902 5 00000(s)] 0815z Weak QRN3 QSB3	Spectre, MP, GD	THU
	0810z	23/05[674 902 5 89562 15864 76184 95264 30567 902 5 00000(s)] 0815z Weak QRN3 QSB3	Spectre, JO	THU
16780kHz	0800z	02/05[674 209 5 46062 68674 97478 29685 20489 209 5 00000(s)] 0805z Fair QRN4 QSB3	Spectre, GD, M8	THU
	0800z	09/05[674 209 5 46062 68674 97478 29685 20489 209 5 00000(s)] 0805z Fair QRN4 QSB3	Spectre	THU
	0800z	16/05[674 902 5 89562 15864 76184 95264 30567 902 5 00000(s)] 0805z Weak QRN3 QSB3	Spectre	THU
	0800z	23/05[674 902 5 89562 15864 76184 95264 30567 902 5 00000(s)] 0805z Weak QRN3 QSB3	Spectre	THU

(Note the figures in the code key are swapped around for the second message of the month.)

June2013:

16780kHz	0800z	06/06[674 281 5 33796 13577 74526 46647 79302]	GD	THU
	0800z	13/06[674 281 5 33796 13577 74526 46647 79302]	GD	THU
	0800z	20/06[674 281 5 33796 13577 74526 46647 79302]	JO	THU

E25

A new frequency for E25 was discovered this month. On equipment used, the carrier peaks at 9400.095kHz and XMSNS -to-date- are in AM only, utilising both sidebands. Carrier is usually strong with audio ranging from STRONG to WEAK. XMSNS have so far occurred in within a 0800z-1115z time-frame. As usual, reception is dependent on a variety of factors but if you were able to hear 9450kHz there is a good chance one should be able to hear 9400kHz.

The main and probably biggest difference on 9400 kHz is the absence of a readily apparent MSG in a recognised format. No MSGS have been discernible, if they in-fact exist during xmsn.

The many nuances in which the xmsns are carried out that make it indistinguishable on many levels in comparison to previous E25 xmsns. It is almost spot-on. In-fact, the 6140kHz 19/01 XMSN is near identical in overall structure.

An "INTRO TONE" of similar to exact design to known E25 "intro tones" is usually present at the start of XMSNS, though in these instances it is usually slightly distorted/over-modulated. A small amount of feedback/distortion-warbliness also occurs at the start times in what seems to be an almost intentional act where some tuning procedure might be taking place just before the main xmsn occurs. Also, more often than not, the tone is briefly heard at end of xmsns.

This xmtr has some similar "ringing" sounds that the 9450kHz station xmtr has displayed in the past and a near-similar band-spread. This is not to be confused with the "drifting" xmtr signature that is sometimes encountered though some of those characteristics are similar too.

Several xmsns were what appears to be a re-xmtd Arab language BC station(s?) broadcast as of yet an unknown origin. E25 has done this on rare occasions.

Music selections are almost identical to previous E25 selections with the addition of "NAJAT AL-SAGHRIA" - another Egyptian singer in a similar league and vain as Oum Khulthom and Abdel Halim Hafez. Song identification is difficult do to the unfamiliarity of the music.

Attributes of E25 that have not been heard and/or observed as of yet are: extraneous "Windows" noises, drifting carrier, Imam/Muezzin conducting a prayer session, "stadium audio-effects", etc.

Do to equipment limitations, E25 activity on 6140kHz is unknown at this time.

The "z" beginning and ending times cover carrier/xmtr start & stop xmsns.

E25 9400kHz

0923z 12/06 ///XMTR/CARRIER ON AT 0923z, TONE INTRO FOR ABOUT 7MIN THOUGH BRIEFLY INTERRUPTED BY SOME DISTORTED/OVERMOD. MUISC PERHAPS?; THEN MUSIC - OUM KHULTOM, "SHAMS EL ASEEL(?)" UNTIL CARRIER OFF AT 0946z. NO APPARENT MSG IDENTIFIED. STRONG - 0946z AIK WED

1017z 16/06 ///XMTR/CARRIER ON AT 1017z, TONE INTRO STARTS +3MIN AFTER CARRIER FOR ABOUT +8MIN MIXED WITH FEEDBACK/NOISE, THEN NAJAT AL-SAGHRIA MUSIC (SONG UNID) UNTIL 1040z FOLLOWED BY TONE W/ MORE FEEDBACK/NOISE. CARRIER OFF AT 1041z. NO APPARENT MSG IDENTIFIED. STRONG - 1041z AIK SUN

0819z 17/06 ///NO MSG. XMTR/CARRIER ON/OFF VERY BRIEFLY STRONG - 0819z AIK MON

0838z 17/06 ///NO MSG. XMTR/CARRIER ON/OFF STRONG - 0838z AIK MON

0839z 17/06 ///NO MSG. XMTR/CARRIER ON AT 0839z. BRIEF TUNING DISTORTION / FEEDBACK. STRONG - 0840z AIK MON

0840z 17/06 ///NO MSG. XMTR/CARRIER ON AT 0840z. DEAD AIR FOR THE FIRST FEW MINUTES FOLLOWED BY RE-XMTD BC STATION TOWARDS END OF XMSN (E25 HAS DONE THIS IN THE PAST ON A RARE OCCASION).
NO APPARENT MSG IDENTIFIED. STRONG - 0845z AIK MON

0855z 17/06 ///XMTR/CARRIER ON AT 0855z, TONE INTRO STARTS AND GOES THROUGH SEVERAL "ADJUSTMENTS" IN STRENGTH, SEEMS MORE LIKE A TUNING PROCEDURE UNTIL 0900z WHEN MUSIC STARTS, STOPS STARTS THEN STOPS AGAIN. ABOUT 30 SEC LATER, ABDEL HALIM HAFEZ "NA'AM YA HABIBI" SONG STARTS UP AND RUNS UNTIL 0917z FOLLOWED BY A FEW SECS OF TONE AND OFF. NO APPARENT MSG IDENTIFIED. STRONG - 0916z AIK/MANOLIS MON

0817z 19/06 ///NO MSG. XMTR/CARRIER ON/OFF. - - 0817z AIK WED

0850z 19/06 ///AT 0851z WEAK TONE BRIEFLY HEARD. TONE THEN COMES BACK, VARIES IN STRENGTH AND IS WARBLY SOUNDING UNTIL 0854z WHERE IT FADES TO NOTHING THEN COMES BACK FAINTLY. THIS CONTINUES UNTIL 0900z WHEN THE MUSIC STARTS - ABDEL HALIM HAFEZ, "NA'AM YA HABIBI". AUDIO IS VERY WEAK BUT DISCERNABLE. AT ONE POINT THE AUDIO COMES UP TO "FAIR". MUSIC ENDS, BREIF TONE, XMTR OFF. NO APPARENT MSG IDENTIFIED. WEAK - 0915z AIK WED

0835z 20/06 ///NO MSG. NO TONE. BRIEF DISTORTION/FEEDBACK. - - 0835z AIK THU

0835z 20/06 ///NO MSG. NO TONE. BRIEF DISTORTION/FEEDBACK. - - 0835z AIK THU

0836z 20/06 ///RE-XMTD BC STATION. WEAK AUDIO, IN ARABIC, OM & YL CONVERSATION. NO APPARENT MSG IDENTIFIED. WEAK - 0836z AIK THU

0854z 20/06 ///TONE W/WARBLINESS. GOES THROUGH SEVERAL "ADJUSTMENTS" THEN RUNS FOR +3MIN. THEN NAJAT AL-SAGHRIA MUSIC (SONG UNID) FROM 0902z W/SOME FADING UNTIL 0921z. BRIEF TONE AT END. NO APPARENT MSG IDENTIFIED. WEAK->FAIR - 0921z AIK THU

0833z 21/06 ///NO MSG. NO TONE. BRIEF DISTORTION/FEEDBACK. BRIEF XMSN. WEAK - 0835z AIK FRI

0835z 21/06 ///NO MSG. NO TONE. BRIEF DISTORTION/FEEDBACK. BRIEF XMSN. WEAK - 0846z AIK FRI

1036z 23/06 ///MUSIC STARTS UP 20SEC AFTER CARRIER UP. NO TONE. AUDIO QUALITY IS DISTORED AND NAJAT AL-SAGHRIA, (PROBABLY ONE OF MANY SONG W/"HABIBI" IN THE TITLE) MUSIC IS FULL OF INTERMITTENT BREAKS, SOMETHING SIMILAR TO A LOOSE CONNECTION. THERE IS A 30SEC TONE AFTER THE MUSIC STOPS, DEAD AIR FOR 15SEC THEN XMTR OFF. NO MSG. FAIR->STRONG - 1041z AIK SUN

0956z 24/06 ///TONE INTRO FROM 0958z-1010z. MUSIC, ABDEL HALIM HAFEZ, "AHWAK" 1010z-1025z. BRIEF TONE, XMTR/CARRIER OFF. FAIR - 1026z AIK MON

1017z 26/06 ///XMTR ON/CARRIER FROM 1017z-1021z. DISTORTION/FEEDBACK XMTR TUNNING PROCEEDURE? AT 1021z 1MIN BREAK IN XMSN STRONG - 1022z AIK WED

1022z 26/06 ///TONE INTRO 7MIN. MUSIC STARTS 1029z, AS OF YET, UNID YL SINGER - SUSPECT EITHER OUM KHULTHOM OR NAJAT AL-SAGHRIA- USUAL CLASSIC ARABIC/EGYPTIAN STYLE. 2MIN TONE AFTER MUSIC STOPS BEFOR XMSN OFF. NO MSG. STRONG - 1043z AIK WED

0910z 27/06 ///XMTR ON/CARRIER. INTERMITTENT DISTORTION/FEEDBACK XMTR TUNING PROCEEDURE ACCOMPANIED BY A LOW-LEVEL TONE/HUM. STRONG - 0912z AIK THU

1049z 27/06 ///TONE INTRO. MUSIC STARTS 1100z, AS OF YET, UNID YL SINGER - SUSPECT EITHER OUM KHULTHOM OR NAJAT AL-SAGHRIA-USUAL CLASSIC ARABIC/EGYPTIAN STYLE. ABRUPTLY ENDS AT 1110z. STRONG - 1110z AIK THU

1111z 27/06 ///CONTINUATION OF PREVIOUS XMSN. BRIEF TONE AFTER MUSIC STOPS BEFOR XMSN OFF. NO MSG. STRONG - 1120z

AIK THU

0850z 28/06 ///TONE INTRO FROM 0852z-0901z AND BRIEF TONE "BLIP" AT END OF MAIN XMSN. MUSIC IS HEARD IN THE USUAL E25 STYLE AND TOO WEAK FOR ANYTHING BETTER THAN A GENERAL ID. THE XMSN COULD HAVE BEEN BEAMED IN AN OTHER DIRECTION AS CARRIER WAS WEAK TOO. WEAK - 0921z AIK FRI

0901z 30/06 ///TONE INTRO FROM 0903z-0915z. NO TONE AT END OF MAIN XMSN. OVERALL XMSN IS VERY WEAK SUGGESTING A DIFFERENT BEAMING. THE MUSIC, FAINTLY HEARD, IS SUNG BY ABDEL HALIM HAFEZ. SONG IS UNID. VERY WEAK - 0926z AIK SUN

Now onto the historical logs, posted to ENIGMA2000 only for May amd June [thanks to our monitors here] and which have been seen elsewhere already but without any proper analysis and without our knowledge of their use

May2013:

9450kHz1158z 12/05 carrier, "spider solitaire" sounds, QSA5, QRT 1159z MG SUN

9450kHz1201z 12/05 IO, 1204z YL "8" only, carrier left open, QSA5 MG SUN

E25 9450kHz 1115z 12/05
YL [315 315 315 315 315 315 315 315 315 315 315 315 315 315 315
MESSAGE MESSAGE MESSAGE
4588 6370 7021 1287 2051 8874 5681 6356 2883 2742 6370 2364
REBEAT REBEAT REBEAT
4588 6370 7021 1287 2051 8874 5681 6356 2883 2742 6370 2364
END OF MESSAGE]
///NO INTRO. ///XMTR/CARRIER ON AT 1105z, MAIN XMSN STARTS ABOUT 10MIN LATER.
CARRIER OFF AT 1119z. FAIR END OF MESSAGE 1119z AIK SUN

E25 9450kHz 1142z 12/05 NO MSG, XMTR ON, THEN OFF. - - 1144z AIK SUN

E25 9450kHz 1149z 12/05 SPIDER SOLITAIRE GAME. FAIR - 1159z AIK SUN

E25 6140kHz 0830z 14/05
YL [672 672 672 672 672 672 672 672 672 672 672 672 672 672 672
MESSAGE MESSAGE MESSAGE
2022 6021 7629 8209 3158 9096 4514 5329 2829 7739
REBEAT REBEAT REBEAT
2022 6021 7629 8209 3158 9096 45
701 701 701 701 701 701 701 701 701 701
MESSAGE MESSAGE MESSAGE
2311 0120 2001 6632 3666 5532 2826 1946 0165 0120
REBEAT REBEAT REBEAT
2311 0120 2001 6632 3666 5532 2826 1946 0165 0120
END OF MESSAGE END OF TRANSMISSION]
///NO INTRO. ///XMTR/CARRIER ON AT 0826z, MAIN XMSN STARTS ABOUT 4 MIN LATER.
CARRIER OFF AT 0838z. WEAK END OF XMSN END OF MESSAGE 0837z AIK TUE

E25 6140kHz 1034z 14/05
YL [672 672 672 672 672 672 672 672 672 672 672 672 672 672 672
MESSAGE MESSAGE MESSAGE
2022 602- 7-29 8209 3158 9-96 4514 5329 2829 7739
REBEAT REBEAT REBEAT
2022 6021 7629 8209 3158 9096 451- 5329 2829 7739
END OF MESSAGE]
///NO INTRO. ///XMTR/CARRIER ON AT 1020z, MAIN XMSN STARTS ABOUT 14 MIN LATER.
CARRIER OFF AT 1038z. SPIDER SOLITARE SOUNDS DURING THE 14 MIN INTERIM. WEAK END
OF MESSAGE 1038z AIK TUE

6140kHz 0838z 16/05 /// EPIC MOVIE SOUNDTRACK, AM SUPPRESSED LSB. DRIFTING
XMTR VERY WEAK - 0841z AIK THU

E25 6140kHz 0909z 16/05 /// XMTR ON BRIEFLY. - - 0909z AIK THU
E25 6140kHz 0912z 16/05
OM [550 OR 950 (REPEATED AT LEAST 14 TIMES THAT I CAN MAKE OUT)
MESSAGE MESSAGE MESSAGE
5051 1932 0380 8086 1701 2518 9817 9557 9241 5552 5639 1954 2550 9140 0380
REBEAT REBEAT REBEAT
5051 1932 0380 8086 1701 2518 9817 9557 9241 5552 5639 1954 2550 9140 0380
END OF MESSAGE END OF TRANSMISSION]
///NO INTRO. LIVE XMSN. AM SUPPRESSED LSB. "MESSAGE" SOUNDS SOMETHING LIKE
"FES-AH". XMTR WENT OFF MOMENTARILY AFTER ID STRING.
WEAK END OF MESSAGE END OF XMSN 0918z AIK THU

9450kHz1218z 18/05[830 7] EOM EOT weak AE SAT

June2013:

E25 6140kHz 0759z 04/06
YL [360 360 360 360 360 360 360 360 360 360 360 360 360 360 360 360 360
MESSAGE MESSAGE MESSAGE
2001 6140 9909 8798 1610 7568 2773 6830 6140 1050
REBEAT REBEAT REBEAT
2001 6140 9909 8798 1610 7568 2773 6830 6140 1050
END OF MESSAGE END OF TRANSMISSION] /// INTRO. ///XMTR/CARRIER ON AT 0757z, MAIN
XMSN STARTS ABOUT MIN LATER. CARRIER OFF AT 0805z.
VERY WEAK 0803z AIK TUE

6140kHz 0844z 10/06[169 2044 5480 1793 4491 2785 8785 0374] 0848z QSA2, YL ended EOM (pause) EOT EOT MG MON

E25a
May 2013:

E25a 6140kHz 0933z (?) 08/05
YL [22 22 … 22 22 22 … 2 … 2 … 13 … 22 … 35 … 22 2 … 22 2 … 35 22 23 135 22 2 …
35 22 2 3 135 22 2 3 135 22 2 3 135 22 2 3 135 22 2 3
MESSAGE MESSAGE MESSAGE
REBEAT REBEAT REBEAT
END OF MESSAGE END OF TRANSMISSION]
///NO APPARENT INTRO. ///XMTR/CARRIER ON AT 0931z, MAIN XMSN STARTS ABOUT 2MIN
LATER. AT 0945z A SPIDER SOLITARE GAME STARTS UP AND CONTIUES UNTIL THE CARRIER
IS OFF AT 0953z. VERY WEAK END OF MESSAGE END OF XMSN 0938z AIK WED

9450kHz1215z 12/05[830 6] 1222z YL, TX ended with "Message", Windows
"click" sounds, brief Arabic OM ending with the word "jihad", QSA5 MG SUN

Manolis further wrote: In order to avoid misunderstandings, the final interesting piece lasted a couple of seconds, and I am not totally sure of what I've heard.

Douglas came back with: I got it. Actually it was very clear good signal. I/Q file shows it certainly was part of the E25 xmsn. I need to get a package together and see if I can get a translation. Definitely bizarre, but not outside the realm.

Wikipedia carries a decent explanation of the word 'Jihad.' http://en.wikipedia.org/wiki/Jihad
"Jihad (English pronunciation: /dʒɪ□hɑː d/; Arabic: جهاد ǧihād [dʒi□hæː d]), an Islamic term, is a religious duty of Muslims. In Arabic, the word jihād translates as a noun meaning "struggle". Within the context of Islam it refers to struggle against those who do not believe in Islamic God (Allah).[1]
Jihad is commonly misunderstood as "Holy War", Jihad means "to struggle in the way of Allah". Jihad appears 41 times in the Quran and frequently in the idiomatic expression "striving in the way of God (al-jihad fi sabil Allah)".[2][3][4] A person engaged in jihad is called a mujahid; the plural is mujahideen. Jihad is an important religious duty for Muslims. A minority among the Sunni scholars sometimes refer to this duty as the sixth pillar of Islam, though it occupies no such official status.[5] In Twelver Shi'a Islam, however, Jihad is one of the 10 Practices of the Religion. http://en.wikipedia.org/wiki/Jihad

However, Douglas once again came up trumps and offered this definitive offering of the intercept:

E25a 9450kHz 1214z 12/05
YL [8830 830 6 830 6 830 6 830 6 830 6 830 6 830 6 830 6 830 6 830 6 830 6
830 6 830 6 830 6 830 6 830 6 830 6 830 6 830 6 830 6 830 6 830 6 830 6
MESSAGE MESSAGE MESSAGE]
///XMTR/CARRIER ON AT 1200z W/ UMM KHULTOM "ENTA OMRI INTRO. KHULTOM,"ENTA OMRI". YL GETS AN "8" OUT THEN DEAD AIR UNTIL MAIN XMSN STARTS, ABOUT 14MIN LATER W/ ANOTHER "ENTA OMRI". CARRIER OFF AT 1221z, BUT NOT BEFORE AM OM GIVES A FEW SEC OF A SPEECH/SERMON – IN ARABIC OF COURSE. THE ESTIMATED TRANSLATION BEING,"LAST YEAR WHEN WE MET" OR "WHEN WE MET LAST YEAR" FOLLOWED BY A BRIEF, SLIGHTLY TRUNCATED "JIHAD". IT MUST BE NOTED HOWEVER, THAT NOTHING CAN BE INFERRED, IMPLIED AND/OR DISCERNED FROM THIS. STRONG MESSAGE MESSAGE MESSAGE 1221z MP/AIK SUN

Before anyone gets excited and forms opinions about events that may, or may not be about to happen please think this through. [Ed]

June 2013:

9450kHz1212z 02/06[830 8] 1219z IO Carrier up at 1207z, QRT at 1221z. QSA5 QSB2 MG SUN

E25a 6140kHz 0758z 05/06
YL [360 368 360 368 360 368 360 368 360 368 360 368 360 368 360 368 360 368 360
368 360 368 360 368 360 368 360 368 360 368 368 368 368 368 368
MESSAGE MESSAGE MESSAGE
2001 6140 9909 8798 1610 7568 2773 6830 6140 1050
REBEAT REBEAT REBEAT
2001 6140 9909 8798 1610 7568 2773 6830 6140 1050
END OF MESSAGE] ///NO INTRO. ///XMTR/CARRIER ON AT 0753z, MAIN XMSN STARTS ABOUT
MIN LATER. CARRIER OFF AT 0804z. CARRIER ON/OFF 0744z-0745z. WINDOWS SHUTDOW.WAV
@ END OF MESSAGE. REPEAT OF 04/06 MSG, BUT WITH AN EXTRA ID OF 368 NOW.
WEAK END OF MESSAGE 0803z AIK WED

E25a 6140kHz 0759z 06/06
YL [364 1 364 1 364 1 364 1 364 1 364 1 364 1 364 1 364 1 364 1 364 1 364 1 364
1 364 1 364 1 364 1 364 1 364 1 364 1 364 1
END OF MESSAGE END OF TRANSMISSION] ///NO INTRO. ///XMTR/CARRIER ON AT 0756z,
MAIN XMSN STARTS ABOUT MIN LATER. CARRIER OFF AT 0802z.
WEAK END OF MESSAGE END OF XMSN 0802z AIK THU

E25a 6140kHz 0929z 06/06
YL [135 24 5 21 (DELAY, WINDOWS DINGS HERE AND THERE...) 135 24 135 24 135 24
135 24 135 24 135 24 135 24 135 24 135 24 135 24 135 24 135 24 135 24 135 24 135
24 135 24 135 24 135 24 135 24 135 24 135 24 135 24
END OF MESSAGE END OF TRANSMISSION] /// INTRO. ///XMTR/CARRIER ON AT 0928z, MAIN
XMSN STARTS ABOUT MIN LATER. CARRIER OFF AT 0933z.
WEAK END OF MESSAGE END OF XMSN 0933z AIK THU

Thanks to AIK and MP for their input here.

G06

Second + Fourth Thursdays in the Month 1830 UTC Schedule:-
9-May-13:- 6,887 kHz, must have started early, call "842" started when tuned in approx. 30 seconds before the half hour. DK/GC "234 234 15 15". Ended just before 1836z with DKDK GCGC but no 5 x "null" heard.

23-May-13:- 6,887 kHz, call "842", DK/GC "146 146 15 15", so not the same 5F message as on the 9th - a bit unusual not to have the same one on both transmissions in the month.

13-June13:- 6,887 kHz, call "842", DK/GC "100 100 15 15". Good signal on a clear frequency.

Friday Following the Second + Fourth Fridays in the Month 1930 UTC Schedule:-
24-May-13:- 5,943 kHz, call-up "218" in progress when tuned in at 1929 and 20 seconds UTC. DK/GC "977 977 15 15". S9 signal.

14-June-13:- 5,943 kHz, call "218", DK/GC "545 545 15 15". Inside the 49 metre broadcast band but no strong stations on close frequencies to cause interference.

28-June-13:- 5,943 kHz, "218" and "545 545 15 15".

First + Second Mondays 1700 + 1800 UTC Schedule:-
6-May-13:- 1700 UTC, 5,476 kHz, calling "564" for a full message, DK/GC "369 369 22 22". Weak signal, S3 and appeared to stop after 5F group 10, "44543" just after 1706z with carrier only. Still plain carrier at 1712z, had gone when checked again 1715z.
1800 UTC, 5,783 kHz, second sending, no problems here, all 22 5F groups transmitted!

13-May-13:- 1700 UTC, 5,476 kHz, calling "564" for a full message, very weak signal, unreadable.
1759 UTC, 5,783 kHz, started early, "564" and "369 369 22 22" again.

10-June-13:- 1659 UTC, 5,476 kHz, started well before the hour, "564 564 564 00000". Weak signal.
1758 and 30 seconds UTC, another early start, second sending, stronger signal, S5 to S6.

And unusually, something new:-
17-May-13, Friday:- 2000 UTC, 9,268 kHz, "239 239 239 00000". S9+, very strong signal, carrier on 9,268 noted just before the hour, surprised to hear the G06 YL at 9 pm on a Friday. Not heard on Fridays 24th and 31st May, something new to watch out for on a Friday.

7-June-13, 1900 UTC, 11,423 kHz, the Friday G06 appears again, must be the first sending of two. Calling "239", DK/GC "587 587 102 102", a full message transmission, S9+ signal.
Carrier on 11,423 noted at 1840z. Ended with DKDK GCGC and "00000" just before 1925z, carrier QRT after 1926z.
2000 UTC, 9,268 kHz, second sending, also S9+, looks as if we have a first + third Fridays in the month 1900 + 2000 UTC schedule here.

And, as is often the case with this family of number stations when a "full message" is transmitted there was a repeat on the following day:-
8-June-13, Saturday:- 1900 UTC, 11,423 kHz, "239" and "587 587 102 102". On the expectation of a "next day repeat", I parked a receiver on 11,423 at around 1840z and was rewarded by carrier noted at 1847z and audio tone a couple of minutes later. S9+ signal.
2000 UTC, 9,268 kHz, second sending, again S9+, very strong signal.

21-June-13:- 1900 UTC, 11,423 kHz, "239" and "587 587 102 102" again, S9+.
2000 UTC, 9,268 kHz, second sending, also S9+.

22-June-13, Saturday:- 1900 UTC, 11,423 kHz and 2000 UTC, 9,268 kHz, the "next day repeats" of "239" and "587 587 102 102", both S9 to S9+ signals.

May 2013:

5476kHz1700z 13/05[56(4?) unreadable 369 (2?)2 00000]1710z Very weak QRM2 QSB4 JkC MON

5943kHz1930z 10/05[218 567 15 97501 ... 81837 567 15 00000(s)] 1936z Strong (6m20s) Specte, PLdn FRI

218 567 15
97501 86593 04483 79402 07583
15828 15829 19006 14829 82905
79408 94297 90446 94370 81837
567 15 00000 *Courtesy Spectre*

1930z 24/05[218 977 15 45665 … 76543 977 15 00000(s)] Strong (5m59s) PLdn FRI

6887kHz1830z 09/05[842 234 15 37264 … 21835 234 15 …….] 00000 not heard. PLdn, Spectre THU

842 234 15
37264 38594 71835 04729 77244
17218 47309 12736 26354 26374
19284 56300 00305 28492 17362
234 15 00000 *Courtesy Spectre*

1830z 23/05[842 146 15 43554 … 45667 146 15 00000(s)] Strong (6m50s) PLdn, JkC THU

842 146 15
43554 78912 24567 33567 00766
54545 67673 23121 87390 25278
56578 93754 57001 12344 45667
146 15 0 0 0 0 0 *Courtesy JkC*

6948kHz	0800z	06/05[215x3 00000]0802z Very Weak	M8, Spectre	MON
	0800z	20/05[215 215 215 000 R?m -> faded outcompletely!] ????z QSA2 QRM5 QRN4 QSB2	tiNG	MON
	0800z	27/05[215x3 00000.....]0802z very weak	M8	MON
9268kHz	2001z	03/05[I/P 239 00000] 2004z Strong QRN3 QRM2 QSB2	JkC	FRI
	2000z	17/05 [239x3 000000.....] 2004z S7	M8	FRI

June 2013:

5943kHz	1930z	14/06[218 545 15 63372 ... 99821 545 15 00000]	HJH	FRI
	1930z	28/06 [218 545 15 63372 ... 99821 545 15 00000] 1937z Very Strong	ATC, PLdn	FRI

218 545 15
63372 48891 07764 10098 47324
72281 90083 72284 09123 87432
83347 77612 13660 93477 99821
545 15 00000 *Courtesy ATC*

6887kHz	1830z	13/07[842 100 15 63728 ... 34756 100 15 00000{s)] Very strong signal, moderate noise	FR	THU

842 100 15
63728 19029 33666 74823 91873
98278 09912 73829 47720 47389
17387 22466 22878 98735 37456
100 15 00000 Courtesy FR

	1830z	27/06[842 122 15 63728 ... 37426 122 15 00000(s)]	(7m07s)	PLdn	THU
6948kHz	0759z	10/06[215x3 00000.....]0802z S7		M8	MON
	0800z	17/06[215 0 0 0 0 0]		FN	MON
9268kHz	2000z	07/06[239 587 102 99696 78421 92122 18801.....41099.....]		RNGB	FRI
	2000z	08/06[239 578 100 99696 ... 41099 587 100 00000] Very strong, QRN2	(24m54s)	PLdn	SAT
	2000z	21/06[239 578 100 99696 ... 41099 587 100 00000] Strong	(25m06s)	PLdn	FRI
	2000z	22/06[239 578 100 99696 ... 41099 587 100 00000] Very strong	(25m06s)	PLdn	SAT
11423kHz	1900z	07/06[239 587 102 99696 78421 92122 18801.....41099.....]		RNGB	FRI
	1900z	08/06[239 578 100 99696 ... 41099 587 100 00000] Strong, QRN2	(24m54s)	PLdn	SAT
	1900z	21/06[239 578 100 99696 ... 41099 587 100 00000] Strong	(25m06s)	PLdn	FRI
	1900z	22/06[239 578 100 99696 ... 41099 587 100 00000] Very strong	(25m06s)	PLdn	SAT

RNGB's Logs

G06 June log:

Friday 7th	19:00	11423	'239' 587 102 99696 78421 92122 18801.....41099
	20:00	9268	'239' 587 102 99696 78421 92122 18801.....41099
Mon 10th	08:00	6948	'215' 00000
	16:59	5476	'564' 00000
	17:59	5783	'564' 00000
Thurs 13th	18:30	6887	'842' 100 15 63728 19009 33666 74823 91873.....37456
Mon 17th	08:00	6948	'215' 00000
Friday 21st	19:00	11423	'239' 587 102 99696 78421 92122 18801.....41099
	20:00	9268	'239' 587 102 99696 78421 92122 18801.....41099
Mon 24th	08:00	6948	'215' 00000

G11
May/June:

3815kHz	2000z	03/05 [262/00] Very strong signal	Fox	FRI
	2000z	05/05 [262/00]	RNGB	SUN
	2000z	12/05 [262/00] Ende 2003z S9	Malc	SUN
	2000z	24/05 [262/00]	RNGB	FRI
	2000z	26/05 [262/00]	RNGB	SUN
	2000z	07/06 [263/33 67662 96779 22080 70684 17661…..21751] Good	RNGB	FRI
	2000z	14/06 [262/00] Good	RNGB	FRI
	2000z	16/06 [262/00]	RNGB	SUN
	2000z	21/06 [262/00]	RNGB	FRI
	2000z	23/06 [262/00]	Gary	SUN
5815kHz	1755z	05/05 [270/00]	RNGB	SUN
	1755z	07/05 [272/32 05252 88892 59242 19533 72694…..]	Chris	TUE
	1755z	11/05 [272/32 05252 88892 59242 19533 72694…..02961] Ende 1805z	Chris	SAT
	1755z	14/05 [270/00]	RNGB	TUE
	1755z	21/05 [270/10 48817 70830 49351 55302 93273……16409]	Jim	TUE
	1755z	28/05 [270/00] Good	RNGB, Thomas	TUE
	1755z	09/06 [270/00]	RNGB	SUN
	1325z	14/06 [299/00] Weak	RNGB	FRI
	1755z	16/06 [270/00]	RNGB	SUN
	1755z	18/06 [277/31 53226 87808 60848 02511 39166…..71061] Good	RNGB	TUE
	1755z	23/06 [277/31 53226…..] repeat of Tuesday	RNGB	SUN

S06

A general move to summertime frequencies in May.
Saturday 1600 or 1605 UTC Schedule, weekly:-
4-May-13:- 1605 UTC 6,977 kHz:- "764 764 764 00000", S4 to S5 at best. This schedule moves lower in frequency in summer unlike most others, was on 7,472 at 1605z or 8,172 at 1600z in March and April.

11-May-13:- 1605 UTC, 6,977 kHz, "764 764 764 00000".

18-May-13:- 1600 UTC, 8,123 kHz, "764 764 764 00000". Signal strength S8.

1-June-13:- 1605 UTC, 6,977 kHz, "764 764 764 00000", S7 signal.

8-June-13:- 1600 UTC, 8,123 kHz, "764 764 764 00000".

22-June-13:- 1600 UTC, 8,123 kHz, "764 764 764 00000".

Saturday 1930 or 1935 UTC Schedule, weekly:-
11-May-13:- 1935 UTC, 6,772 kHz, "426 426 426 00000", S9 with QSB

18-May-13:- 1935 UTC, 6,772 kHz, "426 426 426 00000", S8 to S9.

1-June-13:- 1935 UTC, 6,772 kHz, "426 426 426 00000".

8-June-13:- 1935 UTC, 6,772 kHz, "426 426 426 00000", S9 to S9+.

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

First + Third Saturdays in the Month 1900 + 2000 UTC Schedule:-
18-May-13:- 1900 UTC, 7,643 kHz, "319 319 319 00000". Close to a strong FSK/RTTY signal.
2000 UTC, 6,833 kHz, second sending, peaking S9+.

1-June-13:- 1900 UTC, 7,643 kHz, "319 319 319 00000", weak signal, interference from the FSK signal.
2000 UTC, 6,833 kHz, second sending of "319", peaking S9 with QSB.

The *Other* First + Third Saturdays in the Month 1900 + 2000 UTC Schedule:-
18-May-13:- 1900 UTC, 9,933 kHz, "857 857 857 00000", S8 to S9.
2000 UTC, 8,119 kHz, second sending of "857", S9.

1-June-13:- 1900 UTC, 9,943 kHz, 10 kHz up on last time, "857 857 857 00000". Weak signal, in fact I thought it wasn't on expecting it to be on 9,933 then tuned up to find it on 9,943. The situation made worse by a strong wide-band pulse signal extending from 9,940 to 9,965 kHz, someone's over-the-horizon radar perhaps?
2000 UTC, 8,119 kHz, second sending, much stronger, peaking S9.

Monday + Thursday 1900 or 1905 UTC Schedule:-
I think the last time sent a full message transmission was in May of 2011; so two years of twice a week of "00000". What's the point?
2-May-13, Thursday:- 1900 UTC, 7,975 kHz, "349 349 349 00000", S9 signal.

6-May-13, Monday:- 1905 UTC, 6,984 kHz, "349 349 349 00000", S9.

9-May-13, Thursday:- 1905 UTC, 6,984 kHz, "349 349 349 00000".

13-May-13, Monday:- 1905 UTC, 6,984 kHz, "349 349 349 00000".

16-May-13, Thursday:- 1905 UTC, 6,984 kHz, "349 349 349 00000", S9+, very strong this evening.

23-May-13, Thursday:- 1905 UTC, 6,984 kHz, "349 349 349 00000", S9.

3-June-13, Monday:- 1900 UTC, 7,982 kHz - "on the hour" start for a change, "349 349 349 00000", S9+, very strong signal.

6-June-13, Thursday:- 1905 UTC, 6,984 kHz, "349 349 349 00000", peaking S9+.

13-June-13, Thursday:- 1905 UTC, 6,984 kHz, "349 349 349 00000", S9+.

17-June-13, Monday:- 1905 UTC, 6,984 kHz, "349 349 349 00000".

24-June-13, Monday:- 1905 UTC, 6,984 kHz, "349 349 349 00000".

Second + Fourth Mondays in the Month 1815 + 1915 UTC Schedule:-
13-May-13:- 1815 UTC, 15,835 kHz, calling "426" for a full message, DK/GC "257 257 143 143". S9+, very strong signal.
1915 UTC, 13,490 kHz, second sending, S8 to S9, interference from a rapidly swept carrier
which seems to have a permanent home here.

14-May-13, Tuesday:- 1815 UTC, 15,835 kHz and 1915 UTC, 13,490 kHz, the expected "next day repeats".

27-May-13:- 1815 UTC, 15,835 kHz, "426 426 426 00000", S7 to S8.
1915 UTC, 13,490 kHz, second sending, S7 with rapidly swept carrier for company.

10-June-13:- 1815 UTC, 15,910 kHz, "832 832 832 00000". S9+, no problem to find!
1915 UTC, 13,585 kHz, second sending, S8.

24-June-13:- 1815 UTC, 15,910 kHz, "832 832 832 00000", S7 with deep QSB.
1915 UTC, 13,585 kHz, second sending, weaker signal, S5 to S6.

A couple of surprise S06 loggings:-
22-June-13, Saturday:- 1955 UTC, 4,586 kHz, S06 OM in "full message" mode, found by chance while tuning around. Delivery of 5Fs somewhat slower than usual, I thought. Last few groups were, "....30622 88087 34228 74438". Ended 1957 UTC with, "008 008 17 17 00000", so a short message of only seventeen 5F groups so would not have been on for long.
2026 UTC, 4,512 kHz, another S06 in call-up mode with "524". I had assumed that this was going to be a repeat of the earlier transmission - but it wasn't. DK/GC "007 007 24 24", so
DK "007" would appear to be linked in some way with the earlier "008". 007? "Ah, Mr Bond, I've been expecting you". Ended 2033 UTC with the usual DKDK GCGC and "00000". Carrier stayed on afterwards for a few minutes and S06 voice repeated 0-1-2-3-4 in Russian several times.

23-June-13, Sunday:- These frequencies active again, but not "Next Day Repeats":-
1949 UTC, 4,586 kHz, calling "125", DK/GC "007 007 26 26" - "007" again!
Carrier on 4,586 noted at 1924 UTC.
2023 UTC, 4,512 kHz, call "524", DK/GC "016 016 21 21".

And subsequent monitoring reveals that these are daily schedules.

24-June-13, Monday:- 1949 UTC, 4,586 kHz, call "125", DK/GC "033 033 22 22".
2024 UTC, 4,512 kHz, Call "524", DK/GC "029 029 46 46"; but this turned out to be a two-message S06, called "524" again then second DK/GC "034 034 23 23".

25-June-13, Tuesday:- 1949 UTC, 4,586 kHz, call "125", DK/GC "041 041 33 33".
Ended 2000z.
2023 UTC, 4,512 kHz, "524 524 524 00000", no message.

26-June-13, Wednesday:- 1949 UTC, 4,586 kHz, call "125", DK/GC "046 046 15 15".
2022 UTC, just after, call "524", DK/GC "045 045 22 22".

27-June-13, Thursday:- 1949 UTC, 4,586 kHz, call "125", DK/GC "048 048 49 49".
2022 UTC, 4,512 kHz, call "524", DK/GC "049 049 49 49".

But no sign of "125" and "524" on Friday 28-June; so either has come to an end or does not run on Fridays.

RNGB's logs

S06 May log:

Sat 4th	16:05	6977	'764' 00000
	19:00	7643	'319' 00000
	19:35	6780	'426' 00000
	20:00	8119	'857' 00000
	20:00	6833	'319' 00000
Tues 14th	18:15	15835	'426' 257 143 72558 01556 08378 84292.....46543
	19:15	13490	'426' 257 143 72558 01556 08378 84292.....46543
Mon 27th	19:05	6984	'349' 00000
	19:15	13490	'426' 00000

S06s May report:
ID 471 stopped message sending on the 15th and was found sending nulls on 6 different frequencies from the 29th. 6940/7415/7864/8210/8813 and 9146 – all at 10 minute intervals. (still going early June)
Propagation now very poor on the lower frequencies.

S06s May log:

Monday			
6th/13th	0830/40	8221/9353	'371'
20th/27th			'371' 205 6 65342 89674 34215 54541 90931 55011
6th/13th	0900/10	16380/14835	'872' 950 6 88620 58069 61732 74537 57440 10597
20th/27th			'872' 960 5 67423 90785 64512 34217 78452
6th/13th	1200/10	10230/12165	'831' 905 6 23247 17099 94961 35826 65906 77233
20th/27th			'831' 507 6 45312 78564 90673 23165 78745 44621
Tuesday			
7th/14th	0600/10	16735/15230	'438' 297 5 88280 48116 53718 78927 34963
21st/28th			'438' 215 6 23140 77713 56423 19672 00341 66119
7th/14th	0700/15	5430/6780	'374'
21st/28th			'374' 512 6 58345 61723 57440 10597 94961 35265
7th/14th	0730/40	7245/12080	'427' 916 5 11171 64385 82707 06123 22536
21st/28th			'427'
7th/14th	0800/10	14373/12935	'352' 896 7 60583 54545 50128 99477 83574 48874 94031
21st/28th			'352' 847 6 60743 43943 88569 10544…..
7th/14th	1000/10	6440/5660	'893' 412 5 15676 47891 23247 17099 53718
21st/28th			'893' 216 5 39685 30484 96632 53347 48753
7th/14th	1500/10	6666/7744	'537' 412 6 91826 45630 92928 76843 22365 67564
21st/28th			'537' 428 6 11928 18815 18158 70817 01425 25499
Wednesday			
1st/8th	0730/40	12110/14977	'745' 932 6 95225 84090 09531 88430 33240
15th/22nd			'745' 829 6 46062 68672 97478 39685 30485 96632
1st/8th	0820/30	6755/5835	'471' 268 5 42140 78386 91497 82963 24163
15th			'471' 00000
1st/8th	0840/50	10120/9670	'328' 569 7 20534 11160 43494 37638 16070 43324 56098
15th/22nd			'328' 946 5 75632 98221 65899 34890 12377
1st/8th	1000/10	14580/16020	'729' 465 8 48521 63888 92060 11749 70552 77159 95225 36717
15th/22nd			'729' 463 5 88620 58069 61732 74537 57440

1st/8th	1230/40	7545/8220	‘967’ 453 8 53098 76342 15009 34140 78386 91497 82963 24162
15th/22nd			‘967’ 514 8 52401 63919 92699 14600 74248 48754 65125 41879

Thursday

2nd/9th E17z	0800/10	16780/12850	‘674’ 209 5 46062 68672 97478 39685 30485
16th/23rd			‘674’ 902 5 89562 15864 76184 95264 30567
2nd/9th	0900/10	12952/13565	‘167’ 239 5 52401 63919 92699 14600 74248
16th/23rd			‘167’ 893 5 21767 53672 11834 81022 36803
2nd/9th	0930/40	9255/7630	‘314’ 287 5 47665 94092 48521 63888 92060
16th/23rd			‘314’ 920 5 86743 90867 32154 67534 90341 ?
2nd/9th	1200/10	13145/14535	‘425’ 809 6 79302 53516 25616 56069 96813 33240
16th/23rd			‘425’ 813 6 75643 90867 23164 67534 90831 67661

Friday

3rd/10th	0600/10	8720/10415	‘934’ 526 7 20534 11160 43494 37638 16070 48834 09531
17th/24th			‘934’ 208 5 67423 23121 65472 90784 34331
3rd/10th	0600/10	7845/9125	‘196’ 207 5 11171 64385 82707 06123 22536
17th/24th			‘196’ 243 5 67693 90783 34217 68452 67661
3rd/10th	0800/10	7650/6125	‘278’ 594 6 46321 20795 36277 18432 10574 40190
17th/24th			‘278’
3rd/10th	0930/40	10290/9655	‘516’ 497 8 47385 83920 10743 49377 60913 21059 78540 87016
17th/24th			‘516’ 824 7 47665 94092 48521 63888 92060 11749 70552

Saturday

4th	1200/10	12460/10250	‘254’ 917 6 46062 68672 97478 39685 30485 96632

S06 June log:

Sat 8th	19:35	6772	‘426’ 00000
Mon 10th	19:05	6984	‘349’ 00000
	19:15	13585	‘832’ 00000
Tues 11th	18:00	7315	‘491’ 00000
Sat 15th	16:00	8123	‘764’ 00000
	19:00	9943	‘857’ 00000
	19:00	7657	‘319’ 00000
	19:35	6772	‘426’ 00000
	20:00	8119	‘857’ 00000
	20:00	6833	‘319’ 00000
Mon 17th	19:05	6984	‘349’ 00000
Sat 22nd	16:00	8123	‘764’ 00000
Mon 24th	18:15	15910	‘832’ 00000
	19:05	6984	‘349’ 00000

S06s June report:
ID 471 continued sending nulls on 6940/7415/7864/8210/8813 and 9146 but was message sending again on normal scheduled frequencies by the 26th of the month.
ID 934 was found sending nulls from the 21st using 7837/8530/9054/9412/9935 from 0610
The 0600 sending was not found, but I would expect to find it between 6.7 and 7.5 mHz.
2nd message of E17z almost exactly the same as Saturday’s S06s (just one group short).

S06s June log:

Monday

3rd/10th	0830/40	8221/9353	‘371’ 289 5 33796 13577 74526 46647 79302
17th/24th			‘371’ 254 6 12435 67452 34197 67088 45441 89991
3rd/10th	0900/10	16380/14835	‘872’ 503 6 88569 89617 25757 77159 95225 84090
17th/24th			‘872’ 510 6 79834 56412 79834 09682 11200 45441
3rd/10th	1200/10	10230/12165	‘831’ 965 7 01405 15083 24357 60583 54548 50128 99479
17th/24th			‘831’ 504 6 56423 79856 09834 13285 56551 98561

Tuesday

4th/11th	0600/10	16735/15230	‘438’ 271 5 94289 15244 21541 25657 48858
18th/25th			‘438’ 579 6 67453 89563 33433 13217 89452 23009
4th/11th	0700/15	5430/6780	‘374’ 205 6 46062 68672 97478 39685 30485 96632
18th/25th			‘374’ 589 6 too weak to copy
4th/11th	0730/40	7365/11655	‘427’ 931 5 52401 63941 92699 14600 48754
18th/25th			‘427’ 861 5 77995 63435 34273 95443 82807
4th/11th	0800/10	14373/12935	‘352’ 980 6 05899 50387 45847 23013 89758 52343
18th/25th			‘352’ 984 6 96320 36793 53038 76342 15009 34140
4th/11th	1000/10	6440/5660	‘893’ 467 5 75397 24525 57512 14789 54075
18th/25th			‘893’ 267 5 12478 94239 44560 50835 44716
4th/11th	1500/10	6666/7744	‘537’ 892 6 26445 92948 15855 46723 72414 63497
18th/25th			‘537’ 482 6 11171 64382 82707 06123 22536 88290

Wednesday

5th/12th	0730/40	12110/14977	‘745’ 231 6 79845 23164 78563 90896 34216 56534
19th/26th			‘745’ 213 6 74659 21643 10856 35164 95765 65912
26th	0820/30	6755/5835	‘471’ 260 5 74638 11950 49861 24390 67591
5th/12th	0840/50	10120/9670	‘328’ 561 7 65632 89674 33121 90674 45441 78601 56552
19th/26th			‘328’ 419 5 57123 09756 49302 56581 11067
5th/12th	1000/10	14580/16020	‘729’ 430 5 67431 23105 78452 66610 05133
19th/26th			‘729’ 405 6 52401 63919 92699 14683 74248 48754
5th/12th	1230/40	7545/8220	‘967’ 405 8 89674 56473 90746 13219 68231 90572 55831 99912
19th/26th			‘967’ 435 8 39543 17228 15636 47891 23247 17099 94961 35826

Thursday

6th/13th E17z	0800/10	16780/12850	‘674’ 281 5 33796 13577 74526 46647 79302
20th/27th			‘674’ 290 5 46062 68672 97478 39685 30485
6th/13th	0900/10	12952/13565	‘167’ 420 5 88280 84116 53718 78285 34694
20th/27th			‘167’ 924 5 05899 50387 45847 23012 89758
6th/13th	0900/10	5320/4845	‘624’ 895 7 88620 58069 61732 57440 15974 74660 92833
20th/27th			‘624’ 830 5 21767 53672 11834 81022 36902
6th/13th	0930/40	9255/7630	‘314’ 285 6 52401 63919 92699 14600 74328 64125
20th/27th			‘314’ 872 5 33796 13577 74526 46647 79302
6th/13th	1200/10	13145/14535	‘425’ 981 6 26662 36210 36680 29141 43314 53576
20th/27th			‘425’ 968 7 46647 79302 53516 25616 56069 96813 31670

Friday

7th/14th	0600/10	8720/10415	‘934’ 259 6 66585 65297 78877 53987 89480 10735
7th/14th	0600/10	7845/9125	‘196’ 247 5 58560 48768 69615 88693 15065
21st/28th			‘196’ 832 5 73826 46574 01928 89876 12095
7th/14th	0800/10	7650/6125 77233	‘278’ 561 9 15003 24357 60583 54545 50128 99477 35826 65906
21st/28th			‘278’ 913 5 78452 08945 23165 67662 89645
7th/14th	0930/40	10290/9655	‘516’ 470 8 61732 74537 57440 10597 23521 47660 92883 69901
21st/28th			‘516’ 934 7 78645 80934 24316 78563 56534 34219 90945

Saturday

1st	1200/10	12460/10250	‘254’ 917 6 46062 68672 97478 39685 30485 96632

S06
May2013:

6772kHz1935z	25/05[426x3 00000.....]1939z S8		M8	SAT
6974kHz1905z	20/05[349 00000 R4m]1909z Strong QRM1 QSB1 Expected 6984kHz		JkC	MON
6977kHz1605z	25/05[764x3 00000.....]1609z S6		M8	SAT
6984kHz1905z	06/05[349x3 00000.....]1905z S8		M8, Spectre	MON
1905z	09/05[349 349 349 00000] 1910z STRONG QSB2		CH10, JkC, Spectre	THU
1905z	13/05[349 349 349 00000] 1910z FAIR QSB2		CH10	MON
1905z	16/05[349 00000.....]1909z S9+20		M8	THU
13490kHz1915z	13/05[426 143 72558 ... 46543 257 143 00000] 1944z WEAK QSB2		CH10	MON
15835kHz1815z	13/05[426 .....] 1815z		HJH	MON

June2013:

6977kHz1605z	01/06[764x3 00000.....]1609z S9		M8	SAT
6984kHz1905z	06/06[349x3 000000.....]1909z S9+10		M8, JkC	THU
1905z	10/06[349x3 00000.....]1902z S9+10		M8, HJH, tiNG	MON
1905z	17/06[349 349 349 00000] 1910z STRONG		CH10, HJH	MON
1905z	24/06[349 00000] Strong signal, moderate noise		FR, HJH, M8	MON
7982kHz1900z	03/06[349 349 349 00000] 1905z STRONG QSB2		CH10	MON
13585kHz1915z	10/06[832x3 00000.....]1917z S9=10		M8, tiNG	MON
1915z	24/06 [832 00000] Very strong signal, moderate noise		FR	MON
15910kHz1815z	10/06[832 832 832 00000] Weak, QRM2	(4m00s)	PLdn	MON
1815z	24/06[832 832 832 00000] Strong,QRN2	(4m00s)	PLdn	MON

S06s
May2013:

6666kHz1500z	14/05[537 412 6 91826 unreadable 00000]1505z Very Weak QRM2 QSB4	JkC	TUE
6755kHz0820z	08/05[471 268 5 42140 78086 91497 82963 24163 218 5 00000]0825z Fair QRM3 QSB3	JkC	WED
6940kHz0820z	29/05[471 00000]0824z QRM2 S9	MP	WED
7415kHz0830z	29/05[471 00000]0834z S8	MP	WED
7630kHz0939z	30/05[314 00000]0943z scarcely audible	MP	THU
7744kHz1510z	07/05[537 412 6 91826 45630 92928 76843 22365 67564 412 6 00000]1515z Fair QRM3 QSB2	JkC	TUE
1510z	14/05[537 412 6 91826 ... 67564 412 6 00000]1515zWeak QRM2 QSB3	JkC	TUE
1510z	28/05[537 428 6 11928 ...25499 428 6 00000]1516z Fair QRM2 QSB1	JkC	TUE
7845kHz0600z	17/05[196 243 5 67693 90783 34217 68452 67661 243 5 00000] Very strong signal, weak noise	FR	FRI
8221kHz0830z	06/05[371.....]0835z very weak	M8	MON
0830z	27/05[371 205 6 65342 89674 34215 54541 90931 55011 205 6 00000]0835z S2	M8	MON
8720kHz0600z	03/05[934 526 7 20534 11160 43494 37638 16070 48834 09531 526 7 00000] Strong signal, strong noise	FR	FRI
0600z	17/05[934 208 5 67423 23121 65472 90784 34331 208 5 00000] Strong signal, moderate noise	FR	FRI

9125kHz0610z	03/05[196 207 5 64385 82707 06123 22536 207 5 00000] Very strong signal, moderate/strong noise	FR	FRI
0610z	17/05[196 243 5 67693 90783 34217 68452 67661 243 5 00000] Very strong signal, weak noise	FR	FRI
9255kHz0930z	30/05[314 00000]0934z weak	MP	THU
9353kHz0840z	06/05[371.....]0835z very weak	M8	MON
0840z	27/05[371 205 6 65342 89674 34215 54541 90931 55011 205 6 00000]0845z S1	M8	MON
9655kHz0940z	03/05[516 497 8 47385 83920 10743 49377 60913 21059 78540 87016 497 8 00000]0945z S7	M8	FRI
0940z	17/05[516 824 7 47665 94092 48521 62888 92060 11749 70552 824 7 00000]0945z S8	M8	FRI
9670kHz 0850z	01/05[328 569 7 20534 11160 43494 37638 16070 43324 56098 569 7 00000(s)] 0856z Fair QRN3 QSB3	Spectre	WED
0850z	08/05[328 569 7 20534 11160 43494 37638 16070 43324 56098 569 7 00000(s)] 0856z Fair QRN3 QSB3	Spectre	WED
0849z	29/05[328 00000]0853z S9	MP	WED
10120kHz 0840z	01/05 [328 569 7 20534 11160 43494 37638 16070 43324 56098 569 7 00000(s)] 0846z Fair QRN3 QSB3	Spectre	WED
0840z	08/05 [328 569 7 20534 11160 43494 37638 16070 43324 56098 569 7 00000(s)] 0846z Fair QRN3 QSB3	Spectre,JkC	WED
0840z	29/05[328 00000]0844z S9+10	MP	WED
10230kHz1200z	06/05[831 905 6 23247 17099 94961 35826 65906 77233 905 6 00000]1205z S1	M8	MON
1200z	27/05[831 507 6 45312 78564 90673 23165 78745 44621 507 6 00000]1205z S1	M8	MON
10250kHz1210z	04/05[254 917 6 46062 68672 97478 39685 30485 96632 917 6 00000] Strong signal, QRM	FR, Spectre	FRI
10290kHz0930z	03/05[516 497 8 47385 83920 10743 49377 60913 21059 78540 87016 497 8 00000]0935z S5	M8	FRI
0930z	17/05[516 824 7 47665 94092 48521 62888 92060 11749 70552 824 7 00000]0935z S9+10	M8	FRI
10415kHz0610z	17/05[934 208 5 67423 23121 65472 90784 34331 208 5 00000] Strong signal, moderate noise	FR	FRI
12110kHz0730z	15/05[745 829 6 46062 68672 97478 39685 30485 96632 829 600000]0735z S9+15	M8	WED
12165kHz1210z	13/05[831 905 6 23247 17099 94961 35826 65906 77233 905 6 00000] 1215z Fair QRM2 QSB2	JkC	MON
	Repeat from 17/1/13		
1210z	27/05[831 507 6 45312 78564 90673 23165 78745 44621 507 6 00000]1215z S2	M8	MON
12460kHz1200z	04/05[254 917 6 46062 68672 97478 39685 30485 96632 917 6 00000] Very strong signal, QRM	FR, Spectre	FRI
12935kHz0810z	07/05[352 896 7 60583 54545 50128 99477 83574 48874 94031 896 7 00000]0815z S2	M8	TUE
12952kHz0900z	02/05[167 239 5 52401 63919 92699 14600 74248 239 5 00000]0905z S9+20	M8	THU
0900z	16/05[167 893 5 21767 53672 11834 81022 36803 893 5 00000]0905z S9+20	M8	THU
13145kHz1200z	16/05[425 813 6 75643 90867 23164 67534 90831 67661 813 6 00000]1205z S9+10	M8	THU
13565kHz0910z	02/05[167 239 5 52401 63919 92699 14600 74248 239 5 00000]0915z S9+10	M8	THU
0910z	16/05[167 893 5 21767 53672 11834 81022 36803 893 5 00000]0915z S9+15	M8	THU
14373kHz0800z	07/05[352 896 7 60583 54545 50128 99477 83574 48874 94031 896 7 00000]0805z S6	M8	TUE
0800z	14/05[352 896 896 7 7 .....]	GD	TUE
14535kHz1210z	02/05[425 809 6 79302 53516 25616 56069 96813 33240 809 6 00000]1215z S9	M8	THU
1210z	16/05[425 813 6 75643 90867 23164 67534 90831 67661 813 6 00000]1215z S9+40	M8	THU
14580kHz1000z	01/05[729 465 8 48521 63888 92060 11749 70552 77159 95225 36717 465 8 00000(s)] 1006z Strong	Spectre	WED
1000z	08/05[729 465 8 48521 63888 92060 11749 70552 77159 95225 36717 465 8 00000(s)] 1006z Fair QRN	Spectre	WED
1000z	15/05[729 463 5 88620 58069 61732 74537 57440 463 5 00000(s)] 1005z Fair QRN3 QSB3	Spectre, M8	WED
1000z	22/05[729 463 5 88620 58069 61732 74537 57440 463 5 00000(s)] 1005z Fair QRN3 QSB3	Spectre	WED
14835kHz0910z	06/05[872 950 6 88620 58069 61732 74537 57440 10597 950 6 00000]0915z S9	M8	MON
0910z	27/05[872 960 5 67423 90785 64512 34217 78452 960 5 00000]0915z S4	M8	MON
14977kHz0740z	15/05[745 829 6 46062 68672 97478 39685 30485 96632 829 6 00000]0745z S9+40	M8	WED
16020kHz1010z	01/05[729 465 8 48521 63888 92060 11749 70552 77159 95225 36717 465 8 00000(s)] 1016z Weak Carrier	Spectre	WED
1010z	08/05[729 465 8 48521 63888 92060 11749 70552 77159 95225 36717 465 8 00000(s)] 1016z Fair Carrier	Spectre	WED
1010z	15/05[729 463 5 88620 58069 61732 74537 57440 463 5 00000(s)] 1015z Fair QRN3 QSB3	Spectre, M8	WED
1010z	22/05[729 463 5 88620 58069 61732 74537 57440 463 5 00000(s)] 1015z Fair QRN3 QSB3	Spectre	WED
16830kHz0900z	06/05[872 950 6 88620 58069 61732 74537 57440 10597 950 6 00000]0905z S7	M8	MON
0900z	27/05[very weak]0905z	M8	MON

June2013:

5835kHz0830z	26/06[471 260 5 74638] weak signal	FN	WED
6125kHz0810z	14/06[278.....]0815z very weak	M8	FRI
6666kHz1500z	04/06[537 Unreadable]1506z Very Weak QRM2 QSB4	JkC	TUE
6755kHz0820z	26/06[471 260 5 74638]	FN	WED
6766kHz1500z	18/06[537 482 6 11171 6438n 82707 06123 22536 882n0 482 6 00000]1505z Weak QRM2 QSB3	JkC	TUE

7650kHz0800z	14/06[278 561 9 15003 24357 60583 54545 50128 99477 35826 65906 77233 561 9 00000]0806z vy weak	M8	FRI
7744kHz1510z	04/06[537 892 6 26445 92948 15855 46723 72414 63497 892 6 00000]	JkC	TUE
1510z	18/06[537 482 6 11171 6438n 82707 06123 22536 882n0 482 6 00000]1515z Fair QRM2 QSB2	JkC	TUE
7845kHz0600z	21/06[196 832 5 73826 46574 01928 89876 12095 832 5 00000] Very strong signal, moderate noise	FR	FRI
8221kHz0830z	10/06[371 very weak .....]0835z S1	M8	MON
0830z	24/06[too weak to copy]0835z	M8	MON
9125kHz0610z	21/06[196 832 5 73826 46574 01928 89876 12095 832 5 00000] Strong signal, moderate/strong noise	FR	FRI
9255kHz0930z	13/06[314 285 6 52401 53919 92599 14500 74328 64125 285 6 00000]0935z S6	MP	THU
9353kHz0840z	10/06[371 289 5 ?3796 13577 78526 46747 79302 289 5 00000]0845z S1	M8	MON
0840z	24/06[371 254 6 12435 67452 34187 67088 45441 89991 254 6 00000]0845 S2	M8	MON
9655kHz0940z	14/06[516 470 8 61732 74537 57440 10597 23521 47660 92883 69901 470 8 00000]	FR, FN	FRI
0940z	21/06[516 7 78645 80934 24316 78563 56534 34219 90945 934 7 00000]0945z S9+30	MP	FRI
9763kHz0940z	13/06[314 285 6 52401 53919 92599 14500 74328 64125 285 6 00000]0945z S5	MP	THU
10230kHz1200z	10/06[831 965 7 01405 15083 24357 60583 54548 50128 99479 965 7 00000]1205z S1	M8	MON
1200z	24/06[831 504 6 56423 79856 09834 13285 56551 98561 504 6 00000] Strong,QRM	FR, M8	MON
10250kHz1210z	01/06[254 917 6 46062 68672 97478 39685 30485 96632 917 6 00000]1215z S1	M8	SAT
10290kHz0930z	14/06[516 470 8 61732 74537 57440 10597 23521 47660 92883 69901 470 8 00000] Very strong, QRM	FR, FN	FRI
12165kHz1210z	10/06[831 965 7 01405 15083 24357 60583 54548 50128 99479 965 7 00000]1215z S9	M8	MON
1210z	24/06[831 504 6 56423 79856 09834 13285 56551 98561 504 6 00000] Strong,QRM	FR, M8	MON
12460kHz1200z	01/06[254 917 6 46062 68672 97478 39685 30485 96632 917 6 00000]1205z S9	M8	SAT
12952kHz0900z	06/06[167 420 5 88280 84116 53718 78285 34694 420 5 00000]0905z S9+10	M8	THU
0900z	13/06[167 420 5 88280 84116 53718 78285 34694 420 5 00000]0905z S9+40	MP, GD	THU
13565kHz0910z	06/06[167 420 5 88280 84116 53718 78285 34694 420 5 00000]0915zS9+20	M8	THU
0910z	13/06[167 420 5 88280 84116 53718 78285 34694 420 5 00000]0915z S9+30	MP	THU
14835kHz0910z	10/06[872 503 6 88569 89617 25757 77159 95225 84909 503 6 00000]0915z S7	M8	MON
0910z	24/06[872 510 6 79834 56412 79834 09682 11200 45441 510 6 00000]0915z S2	M8	MON
15230kHz0610z	25/06[438 579 6 63453 89563 33433 13217 89452 23009 579 6 00000] Strong signal, QRM	FR	TUE
16380kHz0900z	10/06[872 503 6 88569 89617 25757 77159 95225 84909 503 6 00000]0910z S7	M8	MON
0900z	24/06[872 510 6 79834 56412 79834 09682 11200 45441 510 6 00000]0905z S5	M8	MON

S11a[III]
May/June:

5815kHz 1020z	01/05 [221/00] Weak	RNGB	WED
1020z	15/05 [221/00] Weak	RNGB	WED
1020z	12/06 [229/33 55627 45722 37233 13325…..42303] Weak	RNGB	WED
1020z	15/06 [229/33 55627 etc] repeat of Weds	RNGB	SAT
1020z	22/06 [221/00] Weak	RNGB	SAT
8530kHz 0915z	14/05 [484/00]	RNGB	WED
0915z	28/05 [484/00] Fair	RNGB	TUE
0915z	31/05 [484/00] Konec 0918z S8	Marco	FRI
0915z	04/06 [484/00] Konec 0918z S9+10	Marco	TUE
0915z	14/06 [484/00]	RNGB	FRI
11581kHz 1020z	03/05 [426/00] Konec 1023z S3	Malc	FRI
1020z	14/05 [426/00]	RNGB	TUE
1020z	28/05 [426/00]	RNGB	TUE
1020z	31/05 [426/00] 1023z S9+10	Marco	FRI
1020z	14/06 [429/38 04040 41859 61419 70206 71429…..21038]	RNGB	FRI
1020z	18/06 [426/00]	RNGB	TUE
16530kHz 1015z	16/05 [475/00] Konec 1018z S8	Malc	THU
1015z	10/06 [475/00] Fair	RNGB	MON
1015z	13/06 [475/00]	RNGB	THU
1015z	20/06 [475/00]	RNGB	THU

S21
May2013:

4973kHz1742z	02/05[973 381 32 = 78597 ... 10652 = 381 32 000] 1753z Weak QRM3 QSB3	JkC	THU
1742z	09/05[973 381 32 78597 ... Unreadable]1753z Very Weak QRM2 QRN4 QSB4	JkC	THU
1741z	14/05[973 381 32 = 78597 ... 10652 = 381 32 000]1753z Fair QRM3 QSB2	JkC, GD	TUE
1742z	23/05[974 381 32 78597 ... 10652 381 32 000]1752z Fair QRM3 QSB1 //5373 kHz NRH Rpt of M45 1702	JkC	THU
1742z	28/05[973 381 32 78597 ... 10652 381 32 000]Weak QRM3 QSB2	JkC	TUE

5074kHz1742z	28/05[973 381 32 78597 ... 10652 381 32 000]Very Weak QRM2 QSB4 Repeat of 1742z 21/05/13	JkC	TUE
5373kHz1742z	09/05Very Weak QRM3 QRN4 QSB4	JkC	THU
1741z	14/05[973 381 32 = 78597 ... 10652 = 381 32 000]1753z Very Weak QRM2 QSB4 Repeat of M45 5474kHz 1701z 14/05	JkC	TUE

June2013:

4973kHz1742z	04/06[973 763 30 84763 ... 28344 763 0000]1753z VERY WEAK QSB3	CH10	TUE

973 763 30
84763 70496 47627 60037 68790 32690
04027 18939 77613 61906 39836 44060
01998 06942 61094 76146 1603? 16690
27061 82891 93769 3???? ????? 2222?
??2827 ????? ????? 32066 60726 28344
763 30 0000 *Courtesy CH10*

4973kHz1742z	18/06[973 763 30 = 84763... 28344 = 763 30 000]1752z Fair QRM1 QSB2 Rpt M45 18/06 1702z	JkC	TUE
1742z	20/06[973 763 30 84763 ... 78344 000] Strong signal, bleeding, moderate noise FR	THU	
5373kHz1742z	18/06[973 763 30 = 84763... 28344 = 763 30 000]1752z Fair QRM1 QSB2 Rpt M45 18/06 1702z	JkC	TUE

S21 4973kHz/5373kHz 1742z 18/6 (with ID 973)
074 763 30 =
84763 70496 47627 50037 68590 32690 04027 18939 77513 51906
39835 44050 01998 06942 51694 75145 85036 15590 27051 82891
93769 33277 38217 52220 32827 17805 38639 32066 60726 28344
= 763 30 000 Courtesy JkC, CH10

1742z	20/06[973 763 30 84763 ... 78344 000] Strong signal, bleeding, moderate noise	FR, CH10	THU
1741z	25/06[973 763 30 84763 ... 28344 763 30 000] 1752z QSA3 QSB3	tiNG	TUE

V02a
May2013:

Just a single report of V02a over the past two months. The spanish lady was probably put on an M08a frequency by mistake.

V02a 7554kHz 2020z 14/5 found in progress at 1420z ended at 2042 with 3X Final

A carrier was reported came up on this frequency in the same time slot on 11/6 (See M08a logs) before switching into Morse code. Another possible hint that V02a is still hiding out there somewhere.

V07
June2013:

10182kHz0740z	02/06 very weak signal	GD	SUN
10282kHz0740z	16/06 very weak signal-	DanAr	SUN
11182kHz0720z	02/06[112 112 112 1 (x5) 332 97 (x2) 43220 31071 ...24848 000 000) QSA3 QRM1	DanAr, GD	SUN

112 112 112 1 (x5)
332 97
332 97
43220 31071 18545 95131 02405 72025 02331 98299 97197 55827
97202 76157 23759 31287 75933 8394 03159 34295 77273 75827
45038 73030 08143 77284 87192 31277 28447 38130 47100 88144
93243 92732 97731 10021 50032 90795 03344 28343 00018 31133
01188 39211 37922 13972 33049 91124 78793 19830 17389 42415
12139 87330 22557 90503 12350 10077 70887 23507 93933 40132
88497 57111 08441 2537? 13399 51910 59588 42813 03573 19333
38387 83869 71921 90737 30101 12778 22508 37423 85707 08338
10990 55798 ?9055 42223 77135 98088 29993 30434 51233 13342
28735 03828 32377 72521 87391 77951 24848 000 00
Courtesy DanAr

11182kHz0720z	09/06[112 112 112 000] x5 QSA 3	DanAR	SUN
0720z	16/06[112 112 112 1 ????? ?????]QSA 1	DanAr	SUN
0720z	23/06[112 112 112 000 x5] QSA2	DanAR	SUN
12182kHz0700z	09/06[112 112 112 000] x5 QSA 2	DanAR	SUN
0700z	16/06[112x3 1 528 72 528 72 GC Possibly 73]	GD, DanAr	SUN
0700z	23/06[112 112 112 000]	GD, DanAr	SUN

V13 No reports

V21 Babbler

May began with a very long Babbler TX on 6625kHz then signals became weak and disappeared about a week later until a quick reappearance in late June.

V21 6625kHz 1000z 1/5 [20, 12, 10, 12, 30, 1, 20, 10, 15, 20, 18, 18, 9, 1, 18, 2, 12, 3, 10, 12, 10, 7, Count to 14 starting at 11, 4
12, 6] then into number strings. TX continued for at least 3.5 hours and involved 2 or 3 different SS/YLs. Number strings heard included the following.

00 0041 ???? 0441 ????
00 0044 ???? 0444 ????
00 0045 ????
0445 42 0441
0443 ????
0445 ???? 07
0445 ???? 07
90 04 ???? 0444 27 0441
0444 359 ??? 95 06
11 11 5 11 95 11 95 0442
0444 95 06 3
0445 42 90 322 0444 ??? 24
500 044 0445 40 11 06 15
0445 411 399 15
0442 42 11 490 11
0446 355 324 11 ??
0446 355 311 10 11 30 36
0446 441 426 11 ??
0446 441 425 24
0445 341 422 31 1100 426
0446 421 46 45
0447 429 432 41
44 47 400 ??? 45
0446 400 456 50
44 44 50 44 54 51 0652
0446 427 436 11 5 10 0656
00 0445 0445 355 313 ????
0450 0450 0455 355 127
44 44 54 44 46 4??
0455 351 243 16 11 0???
44 44 493 262 31
0456 0446 411 946 22 493 491 32 0455 451 449 11 110
0455 441 446 1100 10 0733
0455 441 446 33
000 0048 491 263 266 11 90 0733 0448 491 266 1100 56
0446 0446 447 167 11 5 20 0755
0456 411 124 51
0458 447 11 92 ???

V21 6529kHz 1257z 4/5 [50, 30 then too weak to copy]
V21 6529kHz 1305z 6/5 [One count to 20 heard, otherwise too weak to copy]
V21 6529kHz 1255z 7/5 [Found in progress at 20 counting to 50, 10, 50, 50, (too weak to copy), 50, 50, 70, 50 END]
V21 6529kHz 1335z 24/6 [50, 10 End] Nothing heard for 6 weeks then Babbler appears for 45 seconds 35 minutes later than usual!

V22 No reports

V24 No reports

V30 No reports

Polytones:

XPA c
May2013:

10868kHz0600z	01/05[813 1 06362 00127 29283 12411] Very strong	(3m43s)	RNGB, BR, PLdn	WED
12168kHz0620z	01/05[813 1 06362 00127 29283 12411] Very strong	(3m43s)	RNGB, BR, PLdn	WED
13368kHz0640z	01/05[813 1 06362 00127 29283 12411] Very strong	(3m43s)	RNGB, BR, PLdn	WED
10868kHz0600z	04/05[813 1 06362 00127 29283 12411] Fair, QRM3	(3m43s)	PLdn	SAT
12168kHz0620z	04/05[813 1 06362 00127 29283 12411] Weak, QRM3	(3m43s)	PLdn	SAT
13368kHz0640z	04/05[813 1 06362 00127 29283 12411] Fair	(3m43s)	PLdn	SAT
10868kHz0600z	08/05[813 1 00156 00103 76958 26670]Very strong	(3m27s)	PLdn	WED
12168kHz0620z	08/05[813 1 00156 00103 76958 26670]Very strong	(3m27s)	PLdn	WED
13368kHz0640z	08/05[813 1 00156 00103 76958 26670]Very strong	(3m27s)	PLdn	WED
10868kHz0600z	11/05[813 1 00156 00103 76958 26670]Fair, QRM2	(3m27s)	PLdn	SAT
12168kHz0620z	11/05[813 1 00156 00103 76958 26670]Fair, QRM3	(3m27s)	PLdn	SAT
13368kHz0640z	11/05[813 1 00156 00103 76958 26670]Very strong	(3m27s)	PLdn	SAT

10868kHz0600z	15/05[813 1 06926 00087 68501 33347] Fair, QSB2/3	(3m16s)	PLdn	WED
12168kHz0620z	15/05[813 1 06926 00087 68501 33347] Strong	(3m16s)	PLdn	WED
13368kHz0640z	15/05[813 1 06926 00087 68501 33347] Very strong	(3m16s)	PLdn	WED
10868kHz0600z	18/05[813 000 02512 00001 00000 10140] Very strong	(2m26s)	PLdn	SAT
12168kHz0620z	18/05[813 000 02512 00001 00000 10140] Very strong	(2m26s)	PLdn	SAT
13368kHz0640z	18/05[813 000 02512 00001 00000 10140] Very strong	(2m26s)	PLdn	SAT
10868kHz0600z	22/05[813 1 07568 00217 78985 10413] Very strong	(4m38s)	PLdn	WED
12168kHz0620z	22/05[813 1 07568 00217 78985 10413] Very strong	(4m38s)	PLdn	WED
13368kHz0640z	22/05[813 1 07568 00217 78985 10413] Very strong	(4m38s)	PLdn	WED
10868kHz0600z	25/05[813 1 07568 00217 78985 10413] Fair, QRM2	(4m38s)	PLdn	SAT
12168kHz0620z	25/05[813 1 07568 00217 78985 10413] Fair, QRM2	(4m38s)	PLdn	SAT
13368kHz0640z	25/05[813 1 07568 00217 78985 10413] Strong, QRM2	(4m38s)	PLdn	SAT
10868kHz0600z	29/05[813 1 07568 00217 78985 10413] Fair	(4m38s)	PLdn	WED
12168kHz0620z	29/05[813 1 07568 00217 78985 10413] Strong	(4m38s)	PLdn	WED
13368kHz0640z	29/05[813 1 07568 00217 78985 10413] Very strong, QSB2	(4m38s)	PLdn	WED

June2013:

11409kHz0600z	01/06[456 000 07626 00001 00000 10140] Strong, PLASMAQRM2	(2m26s)	PLdn	SAT
13509kHz0620z	01/06[456 000 07626 00001 00000 10140] Very strong	(2m26s)	PLdn	SAT
14609kHz0640z	01/06[456 000 07626 00001 00000 10140] Fair	(2m26s)	PLdn	SAT
11409kHz0600z	05/06[456 1 02540 00133 97692 52423] Fair	(3m48s)	PLdn	WED
13509kHz0620z	05/06[456 1 02540 00133 97692 52423] Fair	(3m48s)	PLdn	WED
14609kHz0640z	05/06[456 1 02540 00133 97692 52423] Very strong	(3m48s)	PLdn	WED
11409kHz0600z	08/06[456 1 02540 00133 97692 52423] Fair, QSB3	(3m48s)	PLdn	SAT
13509kHz0620z	08/06[456 1 02540 00133 97692 52423] Fair, QSB2	(3m48s)	PLdn	SAT
14609kHz0640z	08/06[456 1 02540 00133 97692 52423] Very strong, QSB2	(3m48s)	PLdn	SAT
11409kHz0600z	12/06[456 1 07435 00151 07345 05533] Very strong	(3m57s)	PLdn	WED
13509kHz0620z	12/06[456 1 07435 00151 07345 05533] Strong	(3m57s)	PLdn	WED
14609kHz0640z	12/06[456 1 07435 00151 07345 05533] Very strong	(3m57s)	PLdn	WED
11409kHz0600z	15/06[456 1 07435 00151 07345 05533] Fair, QRM3	(3m57s)	PLdn	SAT
13509kHz0620z	15/06[456 1 07435 00151 07345 05533] Very strong	(3m57s)	PLdn	SAT
14609kHz0640z	15/06[456 1 07435 00151 07345 05533] Very strong	(3m57s)	PLdn	SAT
11409kHz0600z	19/06[456 1 08142 00109 80675 13411] Fair	(3m35s)	PLdn	WED
13509kHz0620z	19/06[456 1 08142 00109 80675 13411] Fair	(3m35s)	PLdn	WED
14609kHz0640z	19/06[456 1 08142 00109 80675 13411] Strong	(3m35s)	PLdn	WED
11409kHz0600z	22/06[456 1 08142 00109 80675 13411] Very strong	(3m32s)	PLdn	SAT
13509kHz0620z	22/06[456 1 08142 00109 80675 13411] Very strong, QSB2	(3m32s)	PLdn	SAT
14609kHz0640z	22/06[456 1 08142 00109 80675 13411] Fair, QRM2	(3m32s)	PLdn	SAT
11409kHz0600z	26/06[456 1 09435 00093 03384 00363] Fair	(3m24s)	PLdn	WED
13509kHz0620z	26/06[456 1 09435 00093 03384 00363] Fair	(3m24s)	PLdn	WED
14609kHz0640z	26/06[456 1 09435 00093 03384 00363] Fair	(3m24s)	PLdn	WED
11409kHz0600z	29/06[456 1 09435 00093 03384 00363] Strong	(3m24s)	PLdn	SAT
13509kHz0620z	29/06[456 1 09435 00093 03384 00363] Strong	(3m24s)	PLdn	SAT
14609kHz0640z	29/06[456 1 09435 00093 03384 00363] Strong	(3m24s)	PLdn	SAT

XPA e
May2013:

10438kHz1730z	02/05[491 000 08475 00001 00000 10140] Strong	(2m26s)	PLdn, JkC, FR	THU
9938kHz1750z	02/05[491 000 08475 00001 00000 10140] Fair, QSB3	(2m26s)	PLdn, FR	THU
9138kHz1810z	02/05[491 000 08475 00001 00000 10140] Fair, QSB3	(2m26s)	PLdn, FR	THU
10438kHz1730z	07/05[491 1 08406 00253 98265 74432] Fair, QSB2	(5m01s)	PLdn	TUE
9938kHz1750z	07/05[491 1 08406 00253 98265 74432] Fair, QRM2	(5m01s)	PLdn	TUE
9138kHz1810z	07/05[491 1 08406 00253 98265 74432] Fair, QRM2/3	(5m01s)	PLdn	TUE
10438kHz1730z	09/05 Too Weak to process	(5m01s)	PLdn	THU
9938kHz1750z	09/05 Too Weak to process	(5m01s)	PLdn	THU
9138kHz1810z	09/05 Too Weak to process	(5m01s)	PLdn	THU

10438kHz1730z	14/05[491 000 07536 00001 00000 10140] Strong	(2m26s)	PLdn	TUE
9938kHz1750z	14/05[491 000 07536 00001 00000 10140] Weak	(2m26s)	PLdn	TUE
9138kHz1810z	14/05[491 000 07536 00001 00000 10140] Weak	(2m26s)	PLdn	TUE
10438kHz1730z	16/05[491 000 04456 00001 00000 10140] Weak, QRM2	(2m26s)	PLdn	THU
9938kHz1750z	16/05[491 000 04456 00001 00000 10140] Very weak, QRM3	(2m26s)	PLdn	THU
9138kHz1810z	16/05[491 000 04456 00001 00000 10140] Very weak, QRM2	(2m26s)	PLdn	THU
10438kHz1730z	21/05[491 1 02844 00291 88916 36045] Weak and noisy	(5m25s)	PLdn	TUE
9938kHz1750z	21/05[491 1 02844 00291 88916 36045] Weak and noisy	(5m25s)	PLdn	TUE
9138kHz1810z	21/05[491 1 02844 00291 88916 36045] Weak and noisy	(5m25s)	PLdn	TUE
10438kHz1730z	23/05[491 1 02844 00291 88916 36045] Very weak and noisy	(5m25s)	PLdn	THU
9938kHz1750z	23/05[491 1 02844 00291 88916 36045] Very weak and noisy	(5m25s)	PLdn	THU
9138kHz1810z	23/05[491 1 02844 00291 88916 36045] Very weak and noisy	(5m25s)	PLdn	THU
10438kHz1730z	28/05 Very weak		PLdn	TUE
9938kHz1750z	28/05 Very weak		PLdn	TUE
9138kHz1810z	28/05[491 000 08198 00001 00000 10140] Weak	(2m26s)	PLdn	TUE
10438kHz1730z	30/05[491 000 06477 00001 00000 10140] Fair	(2m26s)	PLdn	THU
9938kHz1750z	30/05[491 000 06477 00001 00000 10140] Fair	(2m26s)	PLdn	THU
9138kHz1810z	30/05[491 000 06477 00001 00000 10140] Fair	(2m26s)	PLdn	THU

June2013:

10438kHz1730z	04/06[491 1 00234 00323 52488 73111] 1735z Fair QRM2 QSB1		JkC	TUE
9938kHz1750z	04/06 Very weak		PLdn	TUE
9138kHz1810z	04/06[491 1 00234 03nn 524nRpt 73111]	(5m46s)	PLdn	TUE

XPA 10438kHz 1730z 4/6
Rivet (Build 67) by Ian Wraith
11:30:05 AM XPA Start Tones Found (correcting by -11 Hz)
11:32:05 AM High sync tone found
11:32:05 AM Symbol timing found
Block Sync
4444444444
Block Sync
491 491 491 1 499 491 491 1 491 491 491 1
Block Sync
4444444444
Block Sync
6
Message Start
00234 00323 52488 66099 68372 68210 71155 23203 16330 50805
88384 28333 59568 46024 12531 39219 41335 28373 80727 82791
76665 74482 44276 71859 69661 74652 62386 77182 31756 78557
59884 59270 99501 95662 40878 37906 46582 76756 49908 03500
78045 24209 07967 08219 34071 78989 48832 13822 57462 98384
72231 72083 52021 97402 66719 12210 40639 08494 52728 45407
45282 63546 37057 78394
Block Sync
04706 28709 40093 21836 65158 01056 23570 51286 55621 91397
83500 31989 82957 01089 17667 90031 28849 98702 11892 94809
23784 25467 54406 45251 50640 79216 58039 51513 47055 13301
12214 64224 29866 40614 74833 34112 01304 17857 84148 55762
57609 42047 28420 99663 25594 93967 52843 90202 55837 26695
1833 29131 29695 82465 44314 55233 90520 96742 50701 03005
82219 89978 55923 18971
Block Sync
57147 82231 37408 22437 61602 78327 75848 92556 29661 95880
48945 42711 44681 44565 75598 51196 52182 30145 32478 10575
10789 05224 48811 58959 61457 11958 46990 05546 06910 66687
19319 91392 28267 52835 65744 69869 08793 57977 24648 65251
72708 27506 71043 23746 66781 88309 81256 55739 67647 35049
49423 09328 43615 19992 60932 11856 91522 04973 33527
7226461210 13949 46461
94906
Block Sync
89257 24264 84207 92659 33846 72001 19211 34265 00988 77437
22158 69032 89021 38307 21515 85095 37242 48016 42383 40828
70042 44751 54203 19397 77675 73957 14984 19755 43400 32116
87220 42587 14971 69726 56726 60666 25907 26908 33411 53771
78494 06747 02035 66971 89275 88566 44278 84563 77310 51023
68808 27768 35852 05229 57818 80997 29588 95413 82740 95344
02874 33517 36383 24404
Block Sync
26633 51302 49629 65783 43509 39061 68367 94883 82569 37713
26160 48860 75936 22955 12149 41833 34384 23719 66761 28660
23289 39721 47114 76957 65890 73543 04208 95591 91668 20646
70966 44888 02310 86623 73207 39478 49618 28187 57451 70530
34893 36782 07428 00588 76758 83670 22305 60462 74594 89191
54662 85515 28779 65082 91534 10340 77305 06795 40600 42135
65151 96886 40706 86306
Block Sync
08625 21432 35842 75426 25522 73111 *Courtesy JkC*

10438kHz1730z	06/06 Very weak		PLdn	THU
9938kHz1750z	06/06 Very weak		PLdn	THU
9138kHz1810z	06/06[491 1 00234 0323 52488 73111] Weak, QRM2	(5m46s)	PLdn	THU
10438kHz1730z	11/06[491 000 3107 00001 00000 10140] Fair, QRM3	(2m26s)	PLdn, tiNG	TUE
9938kHz1750z	11/06[491 000 3107 00001 00000 10140] Fair, QRM3	(2m26s)	tiNG	TUE
9138kHz1810z	11/06[491 000 3107 00001 00000 10140] Fair, QRM3	(2m26s)	tiNG	TUE
10438kHz1730z	13/06 Too Weak to process		PLdn	THU
9938kHz1750z	13/06 Too Weak to process		PLdn	THU
9138kHz1810z	13/06 Too Weak to process		PLdn	THU
10438kHz1730z	18/06[491 1 06516 00277 59192 nnnnn]1735z Fair QRM3 QSB1	(5m16s)	JkC, PLdn	TUE
9938kHz1750z	18/06[491 1 06516 00277 59192 nnnnn]1735z Fair QRM3 QSB1	(5m16s)	JkC, PLdn	TUE
9138kHz1810z	18/06[491 1 06516 00277 59192 nnnnn]1735z Fair QRM3 QSB1	(5m16s)	JkC, PLdn	TUE
10438kHz1730z	20/06 Very weak, unable to process	(5m15s)	PLdn	THU
9938kHz1750z	20/06 Very weak, unable to process	(5m15s)	PLdn	THU
9138kHz1810z	20/06 Very weak, unable to process	(5m15s)	PLdn	THU
10438kHz1730z	25/06[491 000 06594 00001 00000 10140] Fair, QSB2	(2m26s)	PLdn, tiNG	TUE
9938kHz1750z	25/06[491 000 06594 00001 00000 10140] Weak	(2m26s)	PLdn	TUE
9138kHz1810z	25/06[491 000 06594 00001 00000 10140] Very weak	(2m26s)	PLdn	TUE

10438kHz1730z	27/06	Very weak, unable to process		PLdn	THU
9938kHz1750z	27/06	Very weak, unable to process		PLdn	THU
9138kHz1810z	27/06	Very weak, unable to process Null message.	(2m26s)	PLdn	THU

XPA2m
May2013:

14538kHz2000z	05/05[00333 00095 86508 31766] Very strong	(3m22s)	PLdn	SUN
13538kHz2020z	05/05[00333 00095 86508 31766] Very strong	(3m22s)	PLdn	SUN
12138kHz2040z	05/05[00333 00095 86508 31766] Strong, QSB2	(3m22s)	PLdn	SUN
14538kHz2000z	07/05[00333 00095 86508 31766] Strong	(3m22s)	PLdn	TUE
13538kHz2020z	07/05[00333 00095 86508 31766] Strong	(3m22s)	PLdn	TUE
12138kHz2040z	07/05[00333 00095 86508 31766] Strong	(3m22s)	PLdn	TUE
14538kHz2000z	12/05[08941 00001 00000 10140] Very strong	(2m11s)	PLdn	SUN
13538kHz2020z	12/05[08941 00001 00000 10140] Very strong	(2m11s)	PLdn	SUN
12138kHz2040z	12/05[08941 00001 00000 10140] Very strong	(2m11s)	PLdn	SUN
14538kHz2000z	14/05[08846 00001 00000 10140] Very strong	(2m11s)	PLdn	TUE
13538kHz2020z	14/05[08941 00001 00000 10140] Very strong	(2m11s)	PLdn	TUE
12138kHz2040z	14/05[08941 00001 00000 10140] Very strong	(2m11s)	PLdn	TUE
14538kHz2000z	19/05[06815 00061 48605 27505] Fair, off freq	(2m57s)	PLdn	SUN
13538kHz2020z	19/05[06815 00061 48605 27505] Very strong	(2m57s)	PLdn	SUN
12138kHz2040z	19/05[06815 00061 48605 27505] Fair	(2m57s)	PLdn	SUN
14538kHz2000z	21/05[06815 00061 48605 27505] Strong	(2m57s)	PLdn	TUE
13538kHz2020z	21/05[06815 00061 48605 27505] Strong	(2m57s)	PLdn	TUE
12138kHz2040z	21/05[06815 00061 48605 27505] Strong	(2m57s)	PLdn	TUE
14538kHz2000z	26/05[05163 00001 00000 10140]Very strong	(2m11s)	PLdn	SUN
13538kHz2020z	26/05[05163 00001 00000 10140]Very strong	(2m11s)	PLdn	SUN
12138kHz2040z	26/05[05163 00001 00000 10140]Very strong	(2m11s)	PLdn	SUN
14538kHz2000z	28/05[06258 00001 00000 10140]Strong	(2m11s)	PLdn	TUE
13538kHz2020z	28/05[06258 00001 00000 10140]Fair, QSB2	(2m11s)	PLdn	TUE
12138kHz2040z	28/05[06258 00001 00000 10140]Very strong	(2m11s)	PLdn	TUE

June2013:

14738kHz2100z	02/06[05721 00079 68682 21227] Strong	(3m11s)	PLdn	SUN
13438kHz2120z	02/06[05721 00079 68682 21227] Strong	(3m11s)	PLdn	SUN
12138kHz2140z	02/06[05721 00079 68682 21227] Very strong	(3m11s)	PLdn	SUN
14738kHz2100z	04/06[05721 00079 68682 21227] Very strong	(3m11s)	PLdn	TUE
13438kHz2120z	04/06[05721 00079 68682 21227] Very strong	(3m11s)	PLdn	TUE
12138kHz2140z	04/06[05721 00079 68682 21227] Very strong	(3m11s)	PLdn	TUE
14738kHz2100z	09/06[02599 00001 00000 10140] Very strong	(2m11s)	PLdn	SUN
13438kHz2120z	09/06[02599 00001 00000 10140] Very strong	(2m11s)	PLdn	SUN
12138kHz2140z	09/06[02599 00001 00000 10140] Very strong	(2m11s)	PLdn	SUN
14738kHz2100z	11/06[09865 00001 00000 10140] Very strong	(2m11s)	PLdn	TUE
13438kHz2120z	11/06[09865 00001 00000 10140] Very strong	(2m11s)	PLdn	TUE
12138kHz2140z	11/06[09865 00001 00000 10140] Very strong	(2m11s)	PLdn	TUE
14738kHz2100z	16/06[09104 00091 12193 62711] Very strong	(3m21s)	PLdn	SUN
13438kHz2120z	16/06[09104 00091 12193 62711] Very strong	(3m21s)	PLdn	SUN
12138kHz2140z	16/06[09104 00091 12193 62711] Very strong	(3m21s)	PLdn	SUN
14738kHz2100z	18/06[09104 00091 12193 62711] Very strong	(3m21s)	PLdn	TUE
13438kHz2120z	18/06[09104 00091 12193 62711] Very strong	(3m21s)	PLdn	TUE
12138kHz2140z	18/06[09104 00091 12193 62711] Very strong	(3m21s)	PLdn	TUE
14738kHz2100z	23/06[05094 00001 00000 10140] Very strong	(2m11s)	PLdn	SUN
13438kHz2120z	23/06[05094 00001 00000 10140] Very strong	(2m11s)	PLdn	SUN
12138kHz2140z	23/06[05094 00001 00000 10140] Strong	(2m11s)	PLdn	SUN
14738kHz2100z	25/06[08623 00001 00000 10140] Very strong	(2m11s)	PLdn	TUE
13438kHz2120z	25/06[08623 00001 00000 10140] Very strong	(2m11s)	PLdn	TUE
12138kHz2140z	25/06[08623 00001 00000 10140] Very strong	(2m11s)	PLdn	TUE

14738kHz2100z	30/06[07237 00087 33639 25214] Very strong	(3m17s)	PLdn	SUN
13438kHz2120z	30/06[07237 00087 33639 25214] Fair/Strong	(3m17s)	PLdn	SUN
12138kHz2140z	30/06[07237 00087 33639 25214] Very strong	(3m17s)	PLdn	SUN

XPA2 r
May2013:

17462kHz1900z	03/05[04893 00131 16103 63476] Very strong	(3m51s)	PLdn	FRI
16114kHz1920z	03/05[04893 00131 16103 63476] Very strong	(3m51s)	PLdn	FRI
14828kHz1940z	03/05 NRH			
17462kHz1900z	04/05[04893 00131 16103 63476] Very strong	(3m51s)	PLdn	SAT
16114kHz1920z	04/05[04893 00131 16103 63476] Very strong	(3m51s)	PLdn	SAT
14828kHz1940z	03/05[04893 00131 16103 63476] Strong	(3m51s)	PLdn	SAT
17462kHz1900z	10/05[05205 00085 38916 63630] Fair, QRM2	(3m15s)	PLdn	FRI
16114kHz1920z	10/05[05205 00085 38916 63630] Fair, QRM2	(3m15s)	PLdn	FRI
14828kHz1940z	10/05[05205 00085 38916 63630] Fair, QRM2	(3m15s)	PLdn	FRI
17462kHz1900z	11/05[05205 00085 38916 63630] Strong, QRM2	(3m15s)	PLdn	SAT
16114kHz1920z	11/05[05205 00085 38916 63630] Very strong	(3m15s)	PLdn	SAT
14828kHz1940z	11/05[05205 00085 38916 63630] Very strong	(3m15s)	PLdn	SAT
17462kHz1900z	17/05[02172 00073 17610 52542] Very strong, QSB2	(3m06s)	PLdn	FRI
16114kHz1920z	17/05[02172 00073 17610 52542] Very strong	(3m06s)	PLdn	FRI
14828kHz1940z	17/05[02172 00073 17610 52542] Very strong	(3m06s)	PLdn	FRI
17462kHz1900z	18/05[02172 00073 17610 52542] Very strong, QSB2	(3m06s)	PLdn	SAT
16114kHz1920z	18/05[02172 00073 17610 52542] Very strong	(3m06s)	PLdn	SAT
14828kHz1940z	18/05[02172 00073 17610 52542] Very strong	(3m06s)	PLdn	SAT
17462kHz1900z	24/05[03638 00099 39277 57273] Very strong	(3m26s)	PLdn	FRI
16114kHz1920z	24/05[03638 00099 39277 57273] Very strong	(3m26s)	PLdn	FRI
14828kHz1940z	24/05[03638 00099 39277 57273] Very strong	(3m26s)	PLdn	FRI
17462kHz1900z	25/05[03638 00099 39277 57273] Weak	(3m26s)	PLdn	SAT
16114kHz1920z	25/05[03638 00099 39277 57273] Very strong	(3m26s)	PLdn	SAT
14828kHz1940z	25/05[03638 00099 39277 57273] Very strong	(3m26s)	PLdn	SAT
17462kHz1900z	31/05[01075 00079 05241 20600] Very strong	(3m10s)	PLdn	FRI
16114kHz1920z	31/05[01075 00079 05241 20600] Very strong	(3m10s)	PLdn	FRI
14828kHz1940z	31/05[01075 00079 05241 20600] Very strong	(3m10s)	PLdn	FRI

June2013:

Not found2100z	01/06			
Not found2120z	01/06			
13923kHz2140z	01/06 Too weak for process		BR	SAT
16167kHz2100zz	07/06[06048 00141 64495 21235] Very strong	(3m59s)	BR, PLdn	FRI
14663kHz2120zz	07/06[06048 00141 64495 21235] Very strong	(3m59s)	BR, PLdn	FRI
13923kHz2140zz	07/06[06048 00141 64495 21235] Very strong	(3m59s)	BR, PLdn	FRI
16167kHz2100zz	08/06[06048 00141 64495 21235] Fair	(3m59s)	PLdn	SAT
14663kHz2120zz	08/06[06048 00141 64495 21235] Fair	(3m59s)	PLdn	SAT
13923kHz2140zz	08/06[06048 00141 64495 21235] Strong	(3m59s)	PLdn	SAT
16167kHz2100z	14/06[00231 00081 02473 43221] Very strong	(3m12s)	PLdn	FRI
14663kHz2120z	14/06[00231 00081 02473 43221] Very strong	(3m12s)	PLdn	FRI
13923kHz2140z	14/06[00231 00081 02473 43221] Very strong	(3m12s)	PLdn	FRI
16167kHz2100z	15/06[00231 00081 02473 43221] Very strong	(3m12s)	PLdn, RNGB	SAT
14663kHz2120z	15/06[00231 00081 02473 43221] Very strong	(3m12s)	PLdn, RNGB	SAT
13923kHz2140z	15/06[00231 00081 02473 43221] Very strong, QSB3	(3m12s)	PLdn, RNGB	SAT
16167kHz2100z	21/06[05295 00115 76944 67025] Very strong	(3m38s)	PLdn	FRI
14663kHz2120z	21/06[05295 00115 76944 67025] Very strong	(3m38s)	PLdn	FRI
13923kHz2140z	21/06[05295 00115 76944 67025] Very strong	(3m38s)	PLdn	FRI
16167kHz2100z	22/06[05295 00115 76944 67025] Very strong	(3m38s)	PLdn	SAT
14663kHz2120z	22/06[05295 00115 76944 67025] Very strong	(3m38s)	PLdn	SAT
13923kHz2140z	22/06[05295 00115 76944 67025] Very strong	(3m38s)	PLdn	SAT

16167kHz2100z	28/06[05448 00093 89579 64275] Very strong	(3m22s)	PLdn	FRI
14663kHz2120z	28/06[05448 00093 89579 64275] Fair, QRM2	(3m22s)	PLdn	FRI
13923kHz2140z	28/06/[05448 00093 89579 64275] Weak	(3m22s)	PLdn	FRI
16167kHz2100z	29/06 Very weak		PLdn	SAT
14663kHz2120z	29/06 Very weak		PLdn	SAT
13923kHz2140z	29/06[05448 00093 89579 64275] Weak	(3m22s)	PLdn	SAT

XPA2 Unclassified
Sun/Fri
May2013:

16314kHz1500z	03/05[02298 00233 08782 61666] Strong, sl. QSB	(5m09s)	BR	FRI
15814kHz1520z	03/05[02298 00233 08782 61666] Strong, sl. QSB	(5m09s)	BR	FRI
14514kHz1540z	03/05[02298 00233 08782 61666] Strong, sl. QSB	(5m09s)	BR	FRI
16314kHz1500z	05/05[02298 00233 08782 61666] Very strong	(5m10s)	PLdn	SUN
15814kHz1520z	05/05[02298 00233 08782 61666] Very strong	(5m10s)	PLdn	SUN
14514kHz1540z	05/05[02298 00233 08782 61666] Very strong	(5m10s)	PLdn	SUN
16314kHz1500z	10/05[07387 00001 00000 10140] Strong	(2m11s)	PLdn	FRI
15814kHz1520z	10/05[07387 00001 00000 10140] Strong	(2m11s)	PLdn	FRI
14514kHz1540z	10/05[07387 00001 00000 10140] Strong	(2m11s)	PLdn	FRI
16314kHz1500z	17/03[05236 00193 07915 36613] Very strong	(4m38s)	PLdn	FRI
15814kHz1520z	17/03[05236 00193 07915 36613] Very strong	(4m38s)	PLdn	FRI
14514kHz1540z	17/03[05236 00193 07915 36613] Very strong	(4m38s)	PLdn	FRI
16314kHz1500z	19/03[05236 00193 07915 36613] Very strong	(4m38s)	PLdn	SUN
15814kHz1520z	19/03[05236 00193 07915 36613] Very strong	(4m38s)	PLdn	SUN
14514kHz1540z	19/03[05236 00193 07915 36613] Very strong	(4m38s)	PLdn	SUN
16314kHz1500z	26/05[07663 00001 00000 10140] Very strong	(2m11s)	PLdn	SUN
15814kHz1520z	26/05[07663 00001 00000 10140] Very strong	(2m11s)	PLdn	SUN
14514kHz1540z	26/05[07663 00001 00000 10140] Very strong	(2m11s)	PLdn	SUN
16314kHz1500z	31/05[02257 00001 00000 10140] Very strong	(2m11s)	PLdn	FRI
15814kHz1520z	31/05[02257 00001 00000 10140] Very strong	(2m11s)	PLdn	FRI
14514kHz1540z	31/05[02257 00001 00000 10140] Very strong	(2m11s)	PLdn	FRI

June2013:
Not found

XPA2 Unclassified

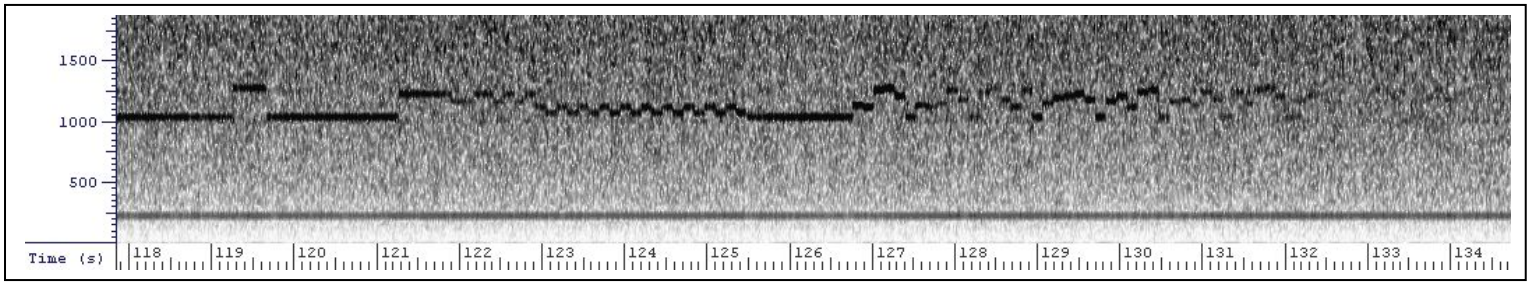
Tue/Thu
June2013:

15nnnkHz1900z	11/06 Not found		PLdn	TUE
14984kHz1920z	11/06[05513 00001 00000 10140] Very strong	(2m11s)	PLdn	TUE
14384kHz1940z	11/06[05513 00001 00000 10140] Very strong	(2m11s)	PLdn	TUE
15nnnkHz1900z	13/06 Not found		PLdn	THU
14984kHz1920z	13/06[07714 00001 00000 10140] Very strong	(2m11s)	PLdn	THU
14384kHz1940z	13/06[07714 00001 00000 10140] Very strong	(2m11s)	PLdn	THU
15884kHz1900z	18/06[02497 00171 81282 06503] Weak, QRM3	(4m22s)	PLdn	TUE
14984kHz1920z	18/06[02497 00171 81282 06503] Weak, QRM3	(4m22s)	PLdn	TUE
14384kHz1940z	18/06[02497 00171 81282 06503] Very strong	(4m22s)	PLdn	TUE
15884kHz1900z	20/06[02497 00171 81282 06503] Very strong	(4m22s)	PLdn, RNGB	THU
14984kHz1920z	20/06[02497 00171 81282 06503] Very strong	(4m22s)	PLdn, RNGB	THU
14384kHz1940z	20/06[02497 00171 81282 06503] Very strong	(4m22s)	PLdn, RNGB	THU
15884kHz1900z	25/06[04967 00001 00000 10140] Very strong	(2m11s)	PLdn	TUE
14984kHz1920z	25/06[04967 00001 00000 10140] Very strong	(2m11s)	PLdn	TUE
14384kHz1940z	25/06[04967 00001 00000 10140] Very strong	(2m11s)	PLdn	TUE
15884kHz1900z	27/06[01629 00001 00000 10140] Very strong	(2m11s)	PLdn	THU
14984kHz1920z	27/06[01629 00001 00000 10140] Very strong	(2m11s)	PLdn	THU
14384kHz1940z	27/06[01629 00001 00000 10140] Very strong	(2m11s)	PLdn	THU

Tue/Fri

May2013:

21857kHz0700z	07/05	NRH		PLdn	TUE
19557kHz0720z	07/05	NRH		PLdn	TUE
18057kHz0740z	07/05[00734 00149 25709 46671]	Weak	(4m04s)	PLdn	TUE
21857kHz0700z	10/05[00734 00149 25709 46671]	Weak	(4m04s)	PLdn	FRI
19557kHz0720z	10/05[00734 00149 25709 46671]	Weak	(4m04s)	PLdn	FRI
18057kHz0740z	10/05[00734 00149 25709 46671]	Weak	(4m04s)	PLdn	FRI
21857kHz0700z	14/05[00514 00117 08339 41124]	Weak	(3m57s)	PLdn	TUE
19557kHz0720z	14/05[00514 00117 08339 41124]	Weak	(3m57s)	PLdn	TUE
18057kHz0740z	14/05 Very weak, just audible			PLdn	TUE
21857kHz0700z	17/03[00514 00127 08349 41124]	Strong QSB		FR	FRI
19557kHz0720z	17/03[00514 00127 08349 41124]	Very strong	(3m52s)	FR,PLdn	FRI
18057kHz0740z	17/03[00514 00127 08349 41124]	Very strong	(3m52s)	FR,PLdn	FRI
21857kHz0700z	21/05	NRH		PLdn	TUE
19557kHz0720z	21/05	NRH		PLdn	TUE
18057kHz0740z	21/05	NRH		PLdn	TUE
21857kHz0700z	24/05	NRH		PLdn	FRI
19557kHz0720z	24/05	NRH		PLdn	FRI
18057kHz0740z	24/05	Extremely weak, odd tones [see beow]		PLdn	FRI



18057kHz 0740z 24/05

21857kHz0700z	28/05	NRH		PLdn	TUE
19557kHz0720z	28/05	NRH		PLdn	TUE
18057kHz0740z	28/05	NRH		PLdn	TUE
21857kHz0700z	31/05[09051 00139 74547 24161]	Fair, QSB3	(3m56s)	PLdn	FRI
19557kHz0720z	31/05[09051 00139 74547 24161]	Fair, QSB2	(3m56s)	PLdn	FRI
18057kHz0740z	31/05 Very weak, almost unreadable			PLdn	FRI

June2013:

20513kHz0700z	14/06[00977 00209 66137 63150]	Medium strength	(4m51s)	RNGB	FRI
18213kHz0720z	14/06[00977 00209 66137 63150]	Medium strength	(4m51s)	RNGB, GD	FRI
15913kHz0740z	14/06[00977 00209 66137 63150]	Medium strength	(4m51s)	RNGB, GD	FRI
20513kHz0700z	18/06[00441 00163 87679 26317]		(4m17s)	RNGB	TUE
18213kHz0720z	18/06[00441 00163 87679 26317]		(4m17s)	RNGB	TUE
15913kHz0740z	18/06[00441 00163 87679 26317]		(4m17s)	RNGB	TUE

Digital, Incursions and Unexplained Signals

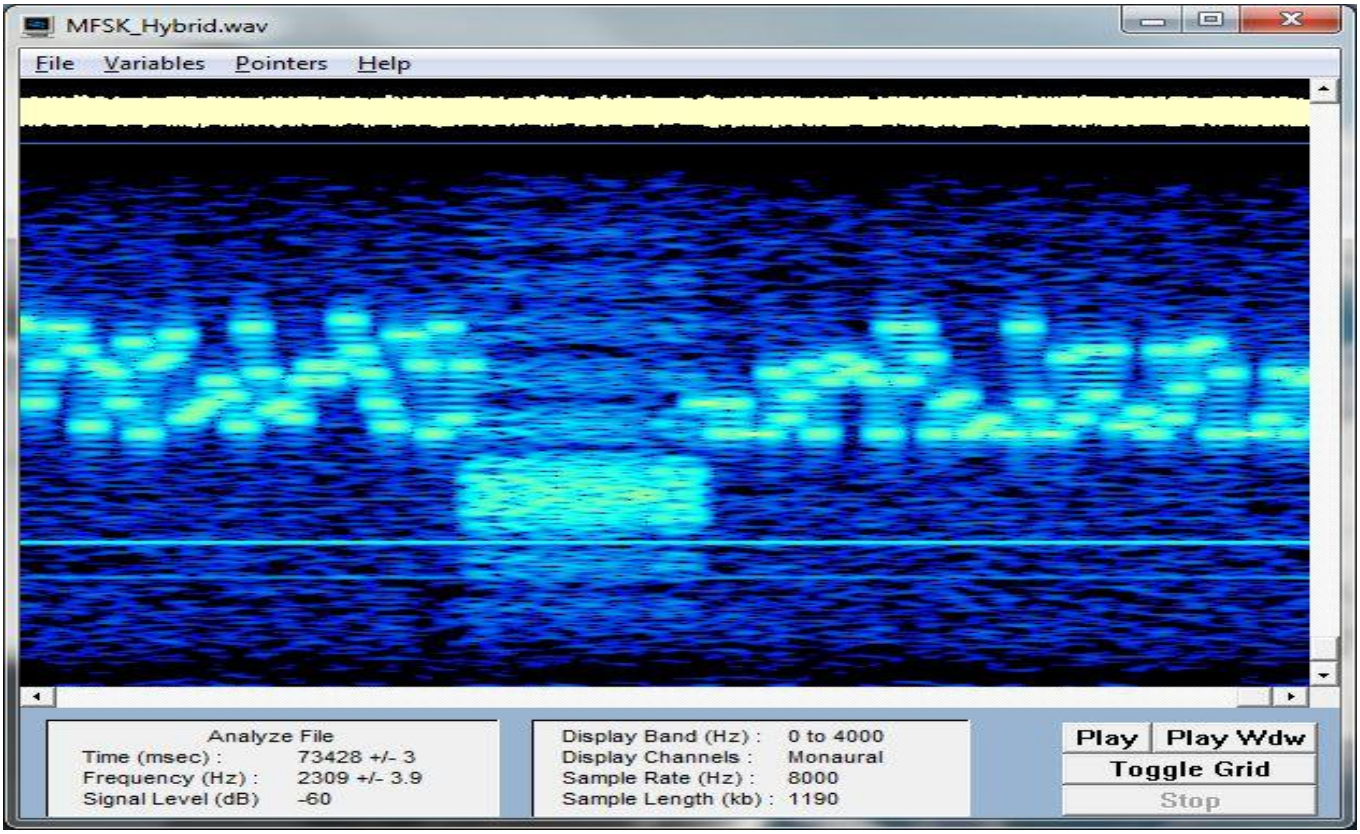
Well its been another busy couple of months for the groups data monitors with a couple of unusual events. On Saturday 26th May two new modes suddenly appeared which appear to belong to one of the Russian Intelligence organisations. The transmissions lasted just under three minutes were transmitted every 5 minutes on a variety of frequencies. From hh:00 to hh:25 the mode was a hybrid PSK (Phase Shift Keying) one which consisted of two 62.5 baud QPSK modulated carriers interspersed with bursts of 250 baud BPSK data. A recording can be heard at the link below ..

http://borg.shef.ac.uk/~ianw/PSK_Hybrid.wav

Then from hh:30 to hh:55 another hybrid mode transmitted every five minutes. This mode consisted of 40 baud 16 tone MFSK interspersed again with 250 baud BPSK every 10 seconds. A recording of this mode can be found here ..

http://borg.shef.ac.uk/~ianw/MFSK_Hybrid.wav

Below you can see a spectogram of this transmission showing the end of one burst of MFSK then the BPSK and the start of another MFSK burst ..



These transmissions were still going at 20:00 when I shut down for the day but were off air on Sunday 27th May and haven't been heard since. These events which look very much like a test of a couple of new modes are very similar to the events of April 3rd and 4th 2012 when Russian Intelligence tested another similar hybrid mode which hasn't been heard since. Perhaps we will never hear either of these two modes ever again or maybe one of them was found to be very suitable and will be replacing one of the older data modes or a voice transmission in the coming months.

In probably unrelated events the week 13th to 19th May 2013 saw the appearance of several new FSK200/1000 link identities which then vanished as suddenly as they had appeared. Normally short lived (a day to several weeks) FSK200/1000 schedules use the special link ID of 00000 but this wasn't the case this time when we saw ..

Link ID	**Transmission Times**
28724	Sunday 09:00/10/20 Wednesday 13:00/10/20 Thursday 13:00/10/20
28725	Saturday 09:00/10/20
28732	Sunday 13:00/10/20
53277	Wednesday 12:30/40/50

None of these link IDs have been seen since 19th May. This is the first time I have seen this behaviour by this data station but haven't been monitoring long enough to say if this is a very unusual event.

The regular FSK200/1000 link IDs are as follows ..

Link ID	Transmission Times
00000	No set schedules
20501	Sunday 15:30/40/50 Tuesday 17:00/10/20
36882	Weekends 11:00/10/20
41018	Weekdays 02:00
45057	Alternate Weekends 09:00/10/20 Tuesday 21:00/10/20
45114	Weekends 08:00/10/20 *(Shares a schedule with 45115)*
45115	Weekends 08:00/10/20 *(Shares a schedule with 45114)*
45136	Weekdays 07:00/10/20 or 12:00/10/20

Most of these schedules conform to a standard where frequencies change monthly and are usually the same from year to year in addition each message is repeated three times , 10 minutes apart on different frequencies. The exceptions are link ID 00000 which can appear at any time on schedules that last for a couple of weeks or just a day. In addition a message may be repeated 10 minutes apart for several hours or just the once. Link ID 41018 was discovered by regular E2K monitor ***DanielAR*** and transmits every weekday at 02:00 (with a preamble at 01:50) but never changes frequency and is always on 16320 KHz. In addition unlike the other schedules link ID 41018s messages are always between 32 and 29 blocks in length. This schedule appears to be aimed at the Far East or the west coast of the USA.

For a change there has been FSK200/500 activity over the last couple of months. The Thursday 19:00/10/20 and the Saturday 12:00/10/20 schedules continue to carry the usual null message. However there have been reports of what may be some new schedules for this mode carrying actual traffic. These include a 00:00 transmission found on Monday 11th June and on a different frequency at 00:00 on Wednesday 5th June found by expert data monitor MCO and a 06:00 also found on Wednesday 5th June by group regular Eddy W. It isn't known if these are regular schedules or the infrequent "special" transmissions this mode is used for from time to time.

A full list of all known FSK200/1000 schedules and frequencies can be found online here ..

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

Over the last couple of months I have been busy adding new modes and features to Rivet the groups data modes decoder. The latest build 81 can be downloaded from here ..

http://borg.shef.ac.uk/rivet/

contains several important bug fixes as well and I urge all users to upgrade to the latest version.

Still no luck finding any POL FSK schedules so if anyone should stumble across such a transmission please report it to the group.

PoSW's Items of Interest in the Media:-

McCormick gets ten years:- It just made the last E2K Newsletter, but to go into more detail the *Metro* newspaper of 3-May carried more details under the headline, "Ten years for bomb detector fraudster", and says :- A former policeman who sold fake bomb detectors to the governments of war-torn countries in an 'obscene' £50 million fraud was sent to prison for ten years yesterday.
James McCormick, whose useless devices were modelled on a novelty golf ball finder, was told by Richard Hone QC that he had risked lives by perpetrating a 'callous confidence trick' 'You knew the devices did not work, yet the soldiers of Iraq and elsewhere believed
in them, in part due to your powers of salesmanship and in part the extravagant and fraudulent claims of your promotional material,' the judge said at the Old Bailey.
McCormick, 57, imported novelty golf-ball finders from the US and paid a British manufacturer to add bits on before selling them for up to £27,000 each.
He claimed they could detect explosives, drugs and ivory – even if the target was underwater.
The businessman, from Somerset - who has a yacht and a home on Bath's millionaires row - sold to armies, police forces and airports.
He denied fraud at his trial and continues to claim the devices work. After he received the maximum possible sentence, the police pledged to go after his assets."
This story would be hilarious were it not for the fact that most likely people have been killed and injured because, for example, they used one of these devices to detect bombs and believed that having done so, they were safe. One also has to question the integrity of the customers for these things; if they were high ranking military personal it is not believable that they purchased them and put them into front line service without conducting comprehensive acceptance tests. Still, someone as unprincipled and as crooked as McCormick will no doubt be sought out and offered employment as a highly-paid advisor by any one of a number of multi-national corporations or by any of the three main UK political parties.

Compensation for Kenyans: If the Second World War, and particularly the Far Eastern theatre, taught anything it was that the day of the White Man lording it over Asians and Africans was over. The way the Japanese overran the British colonial possessions of Malaya and Singapore must have made quite an impression on Africans who wanted the British out of their countries, hence the various Nationalist uprisings in Britain's
African colonies, most noticeably in Kenya in the 1950's.

These attempts to force the British out were but down with force by the British colonial masters, young British working men were called up for compulsory military service and sent out to the colonies by the politicians of the day to hold the locals firmly in their place, often with extreme brutality not worthy of a supposed advanced nation, and all for the benefit of the white rulers, largely wealthy Tories from the English home counties who had almost as much contempt for the young conscripts sent out to Kenya on their behalf as they had for the local Africans.
Now, over half a century later, there is to be some compensation from the current British government. "£20 million payout for tortured Kenyans" is the headline in the *Metro* of 7-June and says, "About 5,200 Kenyans tortured by British soldiers yesterday learned they would be sharing a £20 million compensation pot.
But they will not be getting any apology for their treatment during the era of colonialism.
Foreign secretary William Hague told Members of Parliament the government had reached a full and final settlement with the veterans of the Mau Mau uprising of the 1950s. But he said the government continued to deny liability for what happened during that period as he stopped short of issuing an apology.
'We recognise Kenyans were subject to torture and other forms of ill treatment at the hands of the colonial administration,' he said.
'Torture and ill-treatment are abhorrent violations of human dignity which we condemn.
The Mau Mau began a violent struggle against white rule in 1952. The Kenya Human Rights Commission says 90,000 Kenyans were executed, tortured or maimed. The country gained independence in 1963.
Britain will also support the construction of a memorial to the victims in the capital, Nairobi.

The Litvinenko case still rumbles on; the death of the Russian national Alexander Litvinenko who died from the effects of the radioactive element Polonium-210, administered by persons unknown - although everyone has their suspicions - in London in 2006 is still making news. The *Independent* newspaper of 15-June carried a short piece by John Aston headlined "Inquiry into spy's death still possible" which says, "A coroner's request that a public inquiry take the place of poisoned spy Alexander Litvinenko 'is under careful consideration at the highest levels of government' and a ruling is anticipated next month, the High Court was told yesterday.
Sir Robert Owen, presiding over the inquest into Mr Litvinenko's death, wrote to Justice Secretary Chris Grayling after previously ruling he could not hear evidence linked to the alleged involvement of the Russian government in public. The ruling was published after the coroner accepted an application by the Foreign Office to keep certain information secret.
Yesterday, Neil Garnham QC, appearing for the Foreign Secretary, told three judges at the High Court in London that it was not possible to pre-judge whether ministers would agree, or not agree, to the coroner's request. Were a public inquiry to be established, in all probability the inquest would be adjourned, said Mr Garnham.
Mr Litvinenko, 43, was poisoned with radioactive Polonium-210 while drinking tea at the Millennium Hotel in London's Grosvenor Square in 2006. His widow Marina threatened to boycott the inquest if the government does not set up an inquiry. Her barrister, Ben Emmerson QC, accused the government of trying to 'get her to abandon her attempt to get at the truth".

Well, you don't say! "Britain falls down global global index of peaceful nations" says the *Metro* of 11-June. "We've had public service strikes, a horrific terror attack and higher military spending at a time when many are facing austerity.
Against that background, it's probably no surprise that Britain is a less peaceful place to live in than last year.
The nation was ranked 44th in this year's Global Peace Index - a fall of three places on 2012.
Compiled by the Institute for Economics and Peace, the index ranks 62 countries using 22 indicators such as homicide rates, political instability and terrorist activity.
Founder Steve Killelea said: 'The UK fell on the back of increases of likelihood of violent demonstrations, increase in terrorist activity and a very slight increase in military expenditure as a percentage of GDP.' But Mr Killelea said the fall in peacefulness was 'small rather than significant'.
Britain's score in this year's index was 1.787, a rise of 0.056 compared with last year. Increases indicate a fall in peacefulness.
We were among the least tranquil nations in Europe, coming 26th of 36 in the continent.
Overall the world was found to be a less peaceful place thanks to a surge in murders in Latin America and sub-Saharan Africa as well as increased military spending in dozens of countries. Syria recorded the greatest rise in its score in the history of the index -0,524- and was ranked 160th after months of violence.
The research suggested a shift from large conflicts, such as Iraq and Afghanistan, to internal struggles, such as in Libya and Syria, Mr Killelea said.
Index rankings also suggested that less populous nations were likely to be more peaceful, he added."

I guess that very last paragraph says it all, a definite case of "stating the bleeding obvious". A bit like informing us that mammals of an ursine classification defecate in areas of arboreal intensity. All of the UK's major problems, and the reason why it is becoming such an unpleasant country in which to live, is over-population; there are far, far too many people. You only have to looked at the daily traffic chaos on the roads, the jam-packed commuter trains, the near state of collapse of the National Health Service to realise this is so. There has been an unparalleled growth in population over the last few decades not due to the fertility of the indigenous Brits but because of mass immigration. There is a de facto open door immigration policy favoured by all three political parties and the population has shot up by millions. The official population of the UK is stated as being 62 million. This, even if it were correct would be way, way too high to be supported by the resources available in terms of food, water, energy, housing, health care and so on. There was an interesting debate on mass immigration in Parliament towards the end of last year.
The leaderships of all three parties stood up and said how marvellous immigration was; the thought that cramming more and more people into an already grossly overcrowded island was not a good idea was completely rejected by them. There were, however, two or three dissenters.
A few Tory backbenchers expressed their opposition and pressed the Home Secretary, - or Minister of the Interior - Theresa May - to give an assurance that the population would not be permitted to rise above 70 million; May refused to give that assurance. I suspect that she knows full well the true population of the UK is already well above 70 million. The 62 million figure is arrived at by figures obtained from the ten-yearly census, each household being legally required to complete the census form. If someone is in the country illegally, and it is thought that many millions of third world immigrants are in this category, then they are not likely to draw attention to themselves by disclosing the fact on a piece of paper from the government. It is supposed to be a criminal offence not to fill in and return your census form with the prospect of a substantial fine upon conviction, but the authorities are reluctant to enforce this law, as with many other laws, against ethnic minorities for fear of being accused of that most serious offence in politically correct Cultural Marxist Britain, "racism". Some academics with an understanding of the science of statistical analyse have recently done some research by studying weekly supermarket sales of three basis foodstuffs, bread, potatoes and rice since everyone has to eat and all ethnic groups consume one of these foods. The results suggest that the population of the UK is at least 77 million, 15 million higher than the government's figure.

Gizza Job [if you're a graduate or likely to become one]

Here's a cracking advert if ever there was one [Thanks 'E'].

01987 Monday 4.30pm 9876 98876 silver v3hicle # heightened risk. Five-door. @email .com site usage. Feldspear Avenue. Terraced wh1te red nr shopfront. Documents 6685 Owner traced. Unknown. check Initial V. Open pm @connect.com 4.34pm record of Vehicle history?, white, reg cmd. 0879 6 V3hicle match Feldspear Avenue silver. intercept 7865xx ticket @gmapurch@se.com Tickets purchased, four people, flight Monday morning. Unknown destination initial D. uncle InvestiBated. False documents 787. Repeat. 5.58pm Monday: Communication daily. lease traced. Shopfront 4//121 Feldspear Ave. Slough 121 Launderettequestion 5.06pmconfirm Loc8tions Birmingham, Slough. @email.com owner cal 01987 brother Initial V.owner; house vacant ticket.purch@se £567-45. heightened risk 4 calls @ 1.24, 3.45, 6.46, 7.15pm issued 11.43 checked uncle 0654 FG. @gmail.com 10m 01987, house vacant. Communicating 23 minutes. Tuesday flight, intercept. 987577. Feldspear Avenue Slough, west, southwest 9867555. ID check Initial V. brother two confirm initial F., action 544@@.com airport x-ray negative cleared. No action. False lead. Initial P. Cle8red.Launderetteconfirm. 11.34 White 08977 v3hicle 654.a clear. Silver risk. 01987 brother, check//change. Terrace. Tuesday. Uncle ticket purchase, Intelligence Analysts £25,056 + benefits Intercepted 8956. = Followed up. 01978 4 calls @ 8.17. 8.54, 9.07, 9.34. Mr C. Initials RE. Europe link // ticket purchase. Intercepted 8956. Credit card purchase 7.89. 2 tickets. Destination known. Filed 65. Accomplice # found. Initials W.E. traced. Activity @ 29 Feldspear Avenue, back room. Positive 876 @gmail.com 01987 brother, check//change Brother Initial V. 01978, Boysten Avenue; Link 25 Feldspear Avenue. House vacant. 5 reg. occupants, 3 investigated. 1 lead false. Passport @gmail.8967com. Brother Initial F. Initial V pursuit. File 7694. mobile 01978 interception. Tickets purchased, four people, flight; Unknown destination = positive. Heightened risk. Wednesday: 4 house visits. userone@bxconnect Purchase @121 Feldspear Av. Slough 121. Mobile 01978 interception. Intelligence Analysts £25,056 + benefits; Lead confirmed. Destination. 1-way, no return 38088 mobile. 5,000 mile radius. silver vehicle # @feldspearAv. Slough. Location. Information lead. Boysten Ave, Slough 0978 5848. Materials sourced @.com/find. Reg plate match. Vehicle uninsured. Owner unregistered. Intercepted 8956. Avenue, 24. 4 occupants. 1 resident. Friend/accomplice?? Traced. Cleared. Second Accomplice to 54747438@positive match. Link to group & Second vehicle white estate. Upstairs room 96678 *?? Searched. Identity match S1ough, B0ystEn, Feldspear link to s1ver. @gmail.com Marked Marked? Negative. 4 calls @ 1.24, 3.45, 6.46, 7.15pm 78AST estate. Hatchback. V66 \\&.@.com heightened/Feldspear lease. Brother. Manchester Initial V. 01978 and Sister initial AS. checked. Receive 4 calls @ 8.17. 8.54, 9.07, 9.340 from 1978 @.com Uncle cleared. Boysten Avenue Slough=accomplice. Ticket 87643 4 tickets purchased. Saturday flight. Documentation false. Identity theft. Document Peters. Heightened risk silver hatchback@unmarked = hatchback. Launderette owner sourced. Initial P. Cleared. Confirmed zero link to group. No history. Filed. Boysten = 5 numbers. Intelligence Analysts £25,056 + benefits. London Initial V. 01978 and Sister initial AS. ils checked . Launderette 121, Back room. Boysten Slough Tr//materials found. Filed & matched with 58943. 25 Feldspear Avenue and 324 Boysten Avenue. Devices located. Linked. 5. Upstairs room 96678 *?? Searched. File 7694543322. Thursday 64 calls @ 1.24, 3.45, 6.46, 7.15pm Manchester 869480394 connection. 01978 flight Saturday d3stination unknown 0987555 report 6789rghf s1ver vehicle@Feldspear Avenue=slough 435 435 brother. Destination userone@bxconnect 4 calls @ 1.24, 3.45, 6.46, 7.15pm @gmail.com @btconnect com Credit card transaction Tickets 89657 purchased, four people, flight changed. Silver Hatchback, G-plate. Diesel. Uncle cleared. Information 878694. 435 435 brother found. 3urope link ticket purchase. Launderette 4 calls @ 1.24, 3.45, 6.46, 7.15pm Mobile 01978 traced. Calls @ 4.25, 4.57. 5.15. Intercepted 8956 initial D. Brother//Boysten Ave Slough=accomplice. Activity. Online, SMS. Traced. Friday. Content = heightened risk. Urgent. 14.42 urgent. Activity @ 29 Feldspear Avenue, back room. Positive reading. Reg plate match. Vehicle stolen. Reg Information lead. Boysten Ave, Slough 0978 5848. Materials sourced @.com/find. vehicle@ airport /intercepted. Communication. userone@bxconnect 25 Feldspear Avenue. Feldspear 6789 rghf silver hatchback abandoned. Day##3 mobile device Silver Hatchback, G-plate. Diesel. located. Multiple indication **Terr0r1st Ce11** 1.24, 3.45, 6.46 File 863. Urgent 01978 14.38, 14.39. 14.42 urgent. Activity @ 29 Feldspear Avenue, back room. Positive 876 5766& Slough. **Intelligence Analysts £25,056 + benefits** Initial. Records match. **London based** 8694 **www.mi5.gov.uk/careers/analyst** Premises used. Sister. Manchester 694 connection. vehicle Silver Hatchback. Previous owner Davies. Confirmed Stolen. Activity @ Launderette 121. Calls @ 6.24, 6.58. 7.15. Materials userone@bxconnect InvestiBated. **SECURITY SERVICE MI5** Closed. 425 Link with vehicle 25 Feldspear Avenue. Discretion is vital. You should not discuss your application, other than with a partner or close family member.

The Times and The Sunday Times (Times Newspapers Limited.)
- Clipping Loc. 1049-98 | Added on Sunday, March 24, 2013, 08:15 PM

China's carrier killer unnerves US navy
The test of a new missile is heightening concerns over Beijing's arms build-up, says Michael Sheridan
Credit: YURI KOCHETKOV 1065 words

CHINA has successfully tested a "carrier killer" missile designed to change the military balance of power in Asia by deterring American aircraft carrier operations up to 1,250 miles from Chinese shores. The feat will have been a cause of quiet satisfaction for the leaders of China and Russia, who have been discussing enhanced military co-operation at their first summit since a change of power in Beijing. It comes amid rising concern in Washington about warlike language from China, such as a recent article in the Liberation Army Daily calling for an end to "romantic pacifism" and "full preparation" for war. Last week a senior US defence official, Ashton Carter, reaffirmed in a speech in Jakarta that the Americans would send new Lockheed Martin F-22 Raptor fighters plus more U-2 spy planes, drones and missile defence systems to Asia.
The moves add up to an arms race that, for some commentators, recalls the rivalry between the western powers and a rising Japan in the 1930s. The new Chinese missile test appears to be shown in satellite photographs of two bull's-eye craters on a 200-yard white platform mocked up in the Gobi desert to simulate the deck of a carrier, according to media reports in Taiwan. The images, which military analysts believe show the impact of a DF-21D anti-ship missile, appeared on Google Earth in late January. This unique weapon originates in Soviet missile technology given to China in the 1950s. It is a two-stage, solid-fuel rocket fired from a mobile launcher on land. As it comes down, a satellite-linked guidance system can manoeuvre the warhead to hit a moving target such as a large ship.
It is so precise that the US navy has reportedly been forced to change its tactics and to evolve a range of highly classified counter-measures. The DF-21D is one of a series of weapons deployed by China to strengthen its hand in disputes over the self-ruled island of Taiwan and a handful of islands controlled by Japan. Last week the head of Taiwan's National Security Bureau, Tsai Teh-sheng, told MPs that the Chinese Second Artillery Corps had moved its DF-16 ballistic missiles from central China to coastal areas near Taiwan.
The Second Artillery Corps is the core unit controlling nuclear and ballistic missiles in the Chinese military system. Tsai also said China planned to build a nuclear aircraft carrier after it had completed three conventional carriers. The first of these, the 58,500-ton Liaoning, has just become operational at its home port of Qingdao, northeast China. According to a dispatch from the official news agency, Xinhua, the Liaoning has completed tests of its weapon systems and has staged test flights from its sloping deck. But China has a long way to go before it can rival the US navy's 10 carrier groups and 90 years of experience. A Chinese website, Sina.com, has recounted hair-raising engine and hydraulics problems in the Liaoning's J-15 fighters and the failure of a cable intended to stop one of them in a test landing at an airbase. While brandished as symbols of prestige, the carrier and the J-15 symbolise China's dependence on Russian military hardware. The carrier started life in the Soviet Navy and was bought from Ukraine after the collapse of the Soviet Union, while the J-15 is a troubled derivative of the Soviet SU-27. The arms relationship was therefore high on the agenda when China's new leader, Xi Jinping, met the Russian president, Vladimir Putin, in Moscow last week on his first foreign visit since taking power. "Russia and China share some tactical and even strategic interests in containing the West's recent trend towards interference in other nations' affairs, as in Libya and now in Syria," said Douglas Paal and Dmitri Trenin of the Carnegie Endowment for International Peace.

Xi is likely to have pressed the Russians for a "new quality" of arms relations, involving transfers of technology and joint ventures. But the two analysts think Putin will tread with caution.
Although sales to Beijing may have saved the dying Soviet arms industry, today the Russians are furious with China's copycat weapons-makers. "Moscow has been unhappy with Chinese efforts to reverse-engineer and produce Russia's exported systems," they said. Indeed, the latest Chinese triumph — the Yun-20, a four-engined "cargo jumbo" military transport capable of flying 66 tons of material 2,800 miles — is an example of just that. The Chinese media trumpeted the prototype's maiden flight on January 26. It is powered by four Russian-made Soloviev D-30KP-2 jet engines but the media said future planes would "soon" be fitted with better Chinese engines. Other disagreements reflect the mutual insecurities of the two neighbours, who share a 2,670-mile border. Russian strategists fret about the empty, resource-rich wastes of Siberia next door to a crowded, resource-hungry China. Russia has failed to back China in its island dispute with Japan. China resents Russia selling arms to Vietnam, against which China fought a border war in 1979. The politics of energy are tricky, too. Beijing is furious that the Russians are drilling for oil in a disputed area of the South China Sea controlled by Vietnam, and the two sides have haggled for 10 years over the terms for a natural gas pipeline from Russia to China. The militant tone of recent comments in China has got Americans worried enough to send a warning to Beijing. Last week the former US national security adviser, Zbigniew Brzezinski, took the unusual step of releasing the transcript of a cautionary interview he gave to the People's Daily on March 7 — including the parts the Communist party newspaper chose to leave out. "What worries me these days is what I see in the Chinese press," Brzezinski said, pointing to an article in the People's Daily itself, which said China should link up with Russia and North Korea against America, whose goal, it claimed, was "no longer simply containment . . . rather it is a way of choking aimed and controlling or even suffocating". It said Cold War history showed that "containment will surely be accompanied by murder". Brzezinski cited the article in the Liberation Army Daily that said "we should cast away . . . pacifism and romanticism" and prepare for war. "Don't make the mistake that other countries have made a century ago," Brzezinski warned his interviewers.
The message seems to have got through to Beijing. Last week the Chinese internet was ablaze with furious ultranationalist comment after a top PLA officer, General Liu Yuan, told everyone to cool down. "[War] is just not on," the general told a press conference.

The Times and The Sunday Times (Times Newspapers Limited.)
- Clipping Loc. 2004-35 | Added on Monday, April 01, 2013, 02:36 PM

Israel's fake rocks spy on Russian fleet
Uzi Mahnaimi, Tel Aviv | 648 words

ISRAELI spying equipment has been found hidden in artificial rocks on an uninhabited island opposite the Syrian port of Tartus, where it was being used to monitor Russian naval movements.
Three large espionage devices were discovered by fishermen on the tiny Ant Island near a naval base regarded by Moscow as an important strategic asset in the Mediterranean.
They were mounted in fake rocks designed to blend in with surrounding boulders. According to Al-Manar, a pro-Syrian television station in neighbouring Lebanon, the "rocks" could track and film Russian warship movements and instantly transmit pictures back to Israel by satellite.
Syria's state-run television showed a camera, a satellite dish and other objects including batteries and cables secreted among several imitation rocks.
They are understood to have been installed by divers from Flotilla 13, Israel's elite naval commando unit. They approached the island from one of the country's German-built Dolphin class submarines, which are armed with nuclear cruise missiles.
The commandos' immediate problem was not so much being spotted by the Syrians as the risk of detection by "friendly" patrols from the US Sixth Fleet and a British monitoring station in Cyprus that keeps a close watch on the Syrian coastline. The commandos had apparently visited the island earlier to obtain samples so the colour and shape of local rocks could be matched and the right position for the monitoring station established. Under cover of darkness the frogmen ferried the equipment on two inflatable dinghies equipped with silent outboard motors to Ant Island where they spent several hours installing it, disguising it and ensuring that the satellite links were operational.
It is not known how long the monitoring station operated before it was uncovered. A senior Syrian security official said the equipment was highly intricate and as well as tracking ships could also keep tabs on Syrian troop movements.
Russia leased the Tartus facility in a deal in 1971 under which a multibillion-dollar debt was written off. Several Russian warships have docked at the port in recent months. Vice-Admiral Viktor Chirkov, the Russian naval chief, stressed recently that Tartus was "essential to us". A Radio Free Europe report claimed last year that Moscow had facilities at Tartus to dock nuclear submarines and that arms were being delivered to the port. "Russia's greatest strategic and geopolitical interest in Syria is the use of a deep-water port at Tartus," it said.
While Russia continues to provide Syria with diplomatic support, its intelligence and military presence in the country is growing. The coastal region is a stronghold of the minority Alawite sect, which includes President Bashar al-Assad and much of the ruling elite. "The Russians have been convinced for a long time that Assad is doomed and that eventually he will be forced to retreat to the Alawite enclave so they want to be there," said a defence source. Israel is also eager to monitor military developments. "Any unusual activity by the Russians in Tartus, such as a sudden evacuation of families and non-essential personnel, would be good indicators for the Israelis that something big was happening."
In recent weeks shells have strayed across Israel's border in the Golan Heights, prompting retaliation. But fears are growing in Israel that hardline Islamist groups under the banner of Al-Nusra Front could gain control of border territory and pose a serious threat. "The potential for full-scale war has increased and when that happens it will be sudden and it will pose an unprecedented threat to our cities," warned Major General Yair Golan, the Israeli commander in charge of the northern region, last week. Golan said Israel should consider working with Syrians opposed to extremist Islamist battalions to create a buffer zone inside southern Syria.
An Israeli defence source last week lamented the instability that the uprising had brought. He said: "The Assads [father and son] were murderous bastards but they were 'our' bastards.
Since June 1974 our border with Syria was as peaceful as the one between France and Spain. It's not any more."

Thanks Ken

Rights group sues UK over exports of spying tech
Apr 15, 2013 10:22pm
http://www.necn.com/04/15/13/Rights-group-sues-UK-over-exports-of-spy/landing_scitech.html?&apID=8d88c4f2fb9347b9a6ade61ed6730cbc

LONDON (AP) — A human rights group is suing the British government over the export of sophisticated surveillance technology that has been used to spy on dissidents in Bahrain and elsewhere.

Privacy International said Tuesday it had filed a lawsuit before London's High Court over the government's refusal to say whether it was investigating U.K.-based Gamma International, whose FinFisher software has been linked to use in more than two dozen countries, including Bahrain, Egypt, Ethiopia, Turkmenistan and Vietnam.

The export of Western surveillance software to repressive regimes has drawn increasing attention in the wake of the pro-democracy uprisings in the Arab world that laid bare the high-tech methods used by domestic spying agencies to stifle dissent.

Privacy International argues that the export of FinFisher software may be illegal under U.K. law and has demanded that British officials investigate.

Her Majesty's Revenue and Customs authority has so far refused to say whether it has opened an inquiry into the matter. The agency said it could not comment on the lawsuit for legal reasons.

http://www.necn.com/04/15/13/Rights-group-sues-UK-over-exports-of-spy/landing_scitech.html?&apID=8d88c4f2fb9347b9a6ade61ed6730cbc

Criggion radio station: Ex-WWII centre 'left to rot'
http://www.bbc.co.uk/news/uk-wales-mid-wales-22485354

A formerly secret World War II and Cold War naval communications centre in Powys has been branded a blot on the landscape after years of vandalism.

The Criggion radio station near Welshpool shut a decade ago but since then has been "abandoned and left to rot", claims a local councillor.

Graham Brown said its buildings are the target of thieves, they have smashed windows and are littered with cans.

Owner BT is reviewing the site's future and says it will clear the rubbish.

For 60 years the Criggion station and its three 700ft (210m) radio masts and three 600ft (180m) towers were a part of the scenery near Welshpool on the Powys/Shropshire border.

Built during WWII, it was used to keep the Admiralty in contact with Royal Navy ships around the world.
Criggion radio station Graham Brown says the station has been abandoned

When the war ended the site became a signal relay station for nuclear submarines during the Cold War, as well as for overseas telephone communications.

It closed in 2003 and the masts were demolished, but the 10 or so buildings soon became a target for thieves and vandals, said Mr Brown, a local Powys county councillor.

Mr Brown said: "BT has made promises before to clear the rubbish. They do something in the short term but then the site gets back into a bad state again.

"The buildings have been boarded up but the timber around the doorways has been removed and anyone can get in.

"Glass has been smashed and is all over the floor inside and thieves have taken all the wiring and anything else of note inside the buildings."

Mr Brown said beer cans also littered the buildings inside and out.
Anti-nuclear

They are in the shadow of Rodney's Pillar, a monument erected in 1782 on the summit of the nearby Breidden hill.

"The area is popular with walkers heading for Rodney's Pillar, but the buildings are a blot on the landscape," added Mr Brown, who is also the Powys council cabinet member responsible for regeneration and planning.

"There's a quarry nearby but that's a working environment - the old Criggion station has been abandoned and left to rot and decay."

A spokesman for BT said: "BT is considering its position as leaseholder of this site and the site's future is currently under review.

"We will visit the site in the coming weeks to remove any rubbish that may have been dropped there. "

http://www.bbc.co.uk/news/uk-wales-mid-wales-22485354

Tnx RC.

Russia orders expulsion of 'CIA spy'

Russia ordered the expulsion of an alleged CIA spy following a high-profile sting operation in which an American diplomat was apparently caught red-handed trying to recruit a Russian source with a million-dollar-a-year reward.

TelegrphPlayer_10057527.By Tom Parfitt, Moscow and Peter Foster in Washington
7:34PM BST 14 May 2013
http://www.telegraph.co.uk/news/worldnews/europe/russia/10057440/Russia-orders-expulsion-of-CIA-spy.html

In an operation that bore all the hallmarks of a Cold War spy thriller, Russian state television showed the moment that Ryan Fogle – officially a third secretary from the political section of the US embassy in Moscow – was jumped by agents from the Federal Security Service (FSB).

Wigs and spying gadgets carried by a man claimed by FSB to be Ryan Fogle (AFP)

After the FSB showed off a 'spy kit' including wigs, sunglasses, cash, a compass and an incriminating letter offering a fortune for further information, the Russian Foreign ministry called the US actions as a "provocation in the spirit of the Cold War".

In a move apparently designed to maximise embarrassment, Russia released photographs of Mr Fogle sitting disconsolately in FSB custody along with his official US embassy ID card, before he was released and ordered to leave Moscow immediately.

The episode comes as US-Russian relations - long strained by Moscow's anti-American posturing – appeared to be warming slightly, leading to speculation that the highly publicised arrest was a move by Kremlin hawks to stop even a partial rapprochement.

Last month both countries' intelligence agencies co-operated over the Boston bombings, while last week John Kerry, the US secretary of state, secured an agreement to cooperate in organising a peace conference over the civil war in Syria.

Nonetheless, Russia's foreign ministry said Mr Fogle was a CIA operative who been detained with a "classic spy arsenal" and his actions "raised serious questions for the American side".

"At a time when our presidents have confirmed their readiness to widen bilateral cooperation, including between special services in the struggle against international terrorism, such provocative actions in the spirit of the Cold War don't help to strengthen mutual trust," the ministry said.

The unveiling of their 'catch' appeared to be timed for maximum impact, breaking simultaneously across all arms of state media just as Michael McFaul, the US ambassador to Moscow, was beginning a question and answer session on Twitter.

Mr McFaul declined to comment on the arrest and has been summoned to a meeting at the foreign ministry on Wednesday over the incident. The White House and the CIA referred questions to the State Department where a spokesman confirmed only that "an officer at our US Embassy in Moscow was briefly detained and was released."

A man claimed by FSB to be Ryan Fogle sits in the FSB offices in Moscow Photo: AP

The FSB alleged that Mr Fogle was trying to recruit a member of the Russian special services, as he was detained carrying a wad of 500-euro notes and a letter that offered $100,000 (£65,000) for an initial meeting and "up to $1m per year for long-term cooperation, with extra bonuses for information that will help us".

The FSB claimed at first it "didn't believe" that Mr Fogle had tried to recruit a Russian officer - an experienced anti-terrorism official working on the violence-stricken North Caucasus - because of current collaboration between the FBI and the FSB over the Boston Marathon bombings.

However security experts and a former CIA official with long experience in counter-terrorism both said that parts of the FSB's claims did not ring true.

Aki Peritz, a former CIA official and counter-terrorism analyst, said: "Just the amounts of money here suggest there is something a bit fishy going on. You have to ask if this was all a set up?

"Moscow is the toughest, most saturated counter-intelligence environment in the world. It doesn't feel right that he's carrying wigs, a bundle of money, a compass, two pairs of sunglasses – at night – and a letter that all screams 'I'm a spy'.

"Maybe he [Fogle] was a young case officer who's been under surveillance for some time, but you do get the feeling perhaps that the Russians are trying a bit too hard with this."

Mark Galeotti, a security and espionage expert at New York University, also said it was possible the FSB had caught a low-level CIA operative and then decided to "ice the cake" by furnishing him with a "1970s spy kit and a $1m letter".

"I'm sure the way Russia is handling this was a political decision made at or near the top," he said in a telephone interview. "Part of this is a message to the United States saying, 'don't take us for granted'. But mostly, this is a message for the internal constituency.

"It feeds into a Russian narrative that says, 'yes, of course, we will deal with the West because it's pragmatic to do so, but you have to understand the extent to which we are constantly under siege in a hidden campaign against us by the West, and that's why we need a strong hand in the Kremlin." Once headed by Russia's current president, Vladimir Putin, the FSB is well known for using spy stings or smears of foreign diplomats to fit the agenda of political masters.

A British diplomat in Yekaterinburg, James Hudson, was forced to resign in 2009 after he was secretly filmed - probably by the Russian security services - visiting a brothel.

The same year, footage of Kyle Hatcher, a US diplomat in Moscow, was released on the internet which allegedly showed him with a prostitute. That came shortly after Presidents Barack Obama and Dmitry Medvedev had met and agreed to "reset" the relationship between the Kremlin and the White House.

A "spy rock" used by MI6 to contact agents in Moscow was uncovered in 2006, in a scandal used by the Kremlin to discredit British support for human rights groups

http://www.telegraph.co.uk/news/worldnews/europe/russia/10057440/Russia-orders-expulsion-of-CIA-spy.html

This IS a secure line: The groundbreaking encryption app that will scramble your calls and messages

Silent Circle can encrypt calls, texts, emails, videos and file transfers
Protocols are so strong even powerful supercomputers cannot crack them
The app is already available on both iPhone and Android
Company's cryptographers spoke to MailOnline

By Damien Gayle

PUBLISHED: 09:48, 7 February 2013 | UPDATED: 10:58, 7 February 2013

http://www.dailymail.co.uk/sciencetech/article-2274597/How-foil-eavesdroppers-The-smartphone-encryption-app-promises-make-communications-private-again.html

A new app promises to encrypt all your smartphone communications to make them look and sound like gibberish to anyone trying to listen in.

Startup tech firm Silent Circle say their system is 'a secure information service' which can allow users to communicate via voice, text message, email and even video without fear of being tapped.

The app is already available on both iPhone and Android, and its functionality has recently been broadened to allow users to not only communicate securely but also easily send encrypted files.
Scroll down for video
Secure: A new smartphone app promises to secure all your communications with sophisticated encryption so that no-one will be able to listen to what you are saying

Secure: A new smartphone app promises to secure all your communications with sophisticated encryption so that no-one will be able to listen to what you are saying

Encryption is the process of process of encoding messages or information in such a way that eavesdroppers cannot read it, but the intended recipient can.
WEB USERS SEEKING 'INVISIBILITY'

Consumer efforts to protect personal data and remain 'invisible' online is leading to a 'data blackhole' that could adversely impact digital advertisers, according to a new report.

The move to seek 'new tools that allow them to remain ‘invisible’ — untraceable and impossible to target by data means' will impact advertisers who rely on that information to target their audiences, technology research firm Ovum said yesterday.

Surveying consumers in 11 countries around the world, the research firm said 68 per cent of respondents said they would select a 'do not track' feature if this was easily available.

Mark Little, a principal analyst at Ovum, said Internet users were increasingly getting more access to new tools to 'monitor, control and secure their personal data as never before'.

The recent scandal involving privacy breaches by mobile messaging service WhatsApp and lingering concerns over data use policies on Facebook and Google are prompting Internet users to be more guarded, Ovum added.

While the simplest encryption goes back at least as far as the ancient Greeks, modern day digital methods are so strong that even the most sophisticated supercomputers would take years to crack it.

However, while such advanced digital encryption is nothing new, until now using it reliably has been difficult for anyone who is not a sophisticated user.

Silent Circle works in conjunction with users' standard mobile network data plan.

The technology uses sophisticated peer-to-peer encryption to render the data transmitted into what would sound to eavesdroppers like random noise.

Similarly, emails and text messages would appear to anyone attempting to intercept them as random strings of letters and characters.

Although the data is handled by Silent Circle's own network and servers along the way, the company insists that the keys to the encryption are only held by the users communicating and not even they can crack it.

Other smartphone encryption apps already exist, some of them free, but Silent Circle insists its product is the first to bring together an entire suite of encryption products and make it easy to use.
How it works: The technology uses sophisticated peer-to-peer encryption to render the data transmitted into what would sound to eavesdroppers like random noise

How it works: The technology uses sophisticated peer-to-peer encryption to render the data transmitted into what would sound to eavesdroppers like random noise

The team behind Silent Circle includes Phil Zimmerman, inventor of PGP ecryption, which is still considered the standard for email security, and Phil Zimmerman, former chief scientist at PGP corporation and the developer of Apple's whole-disk encryption.

In an interview with MailOnline, Mr Callas, now chief technology officer at Silent Circle, described it as a 'secure information service.'

‘It’s a subscription service that lets you do secure voice, video and email using a standard mobile device,' he said.

‘Let’s say you are in a war zone, or you are a business traveller in China,’ he said. ‘You might want to talk to someone back home and talk to them about what you are doing there that might be of interest to the local wiretapping environment.’

MailOnline reported yesterday how hostile wiretapping environments may not be so far from home.

The British government, at the urging of security agencies, is planning to implement a surveillance regime that would expose practically everyone's communications to potential investigation.

But the problem is not necessarily overarching national surveillance machines, Mr Zimmerman added, but also the huge number of examples of non-state surveillance.

As more of our communications move online the potential for interception is greater than ever, with cybercriminals in particular proving a threat.
WHAT SILENT CIRCLE'S APP OFFERS

Silent Circle’s kind of customers, Mr Zimmermann says, ‘see the hacking that’s going on internationally, they know that a lot of services they use collect information and use it to target ads’.

‘People say I’m being watched all the time now. It’s not a Big Brother thing, it’s a little brother thing; it’s all these little things that are eroding our basic privacy.’

But the pair said they do not necessarily expect their products to be used by average consumers, it is more pitched towards personnel in corporations and governments for which secure communications are essential.

'This is for people that really care about security. This is for serious users who have a serious need - not teenage girls telling their friends about a crush,' Mr Callas said.

But Mr Zimmerman quipped: 'Of course they are welcome to buy it like anyone else.'

With governments across the world - from ostensible democracies to totalitarian dictatorships - upgrading their eavesdropping infrastructure to cover practically all communications, there has never been more demand for encryption.

Yesterday it emerged that UK spy agencies want phone networks and internet service providers to install surveillance 'black boxes' that would allow them to eavesdrop on everything passing through their infrastructure.

The government argues that swift access to communications data is critical to the fight against terrorism and other high-level crime, but Mr Zimmerman and Mr Callas say even if their service is used by criminals it is still better that it is available.

Comparing digital encryption to locks on front doors, Mr Zimmerman said Silent Circle see themselves as the locksmiths of the digital age.

'Society is better off with everybody having locks on their doors. Everybody having locks including the criminals,' he said.

Silent Circle is available on iPhone and Android. Subscription costs $20 a month.

WHAT SILENT CIRCLE'S APP OFFERS

Silent Phone: Encrypted voice and video calls on mobile devices. Currently available for iOS and Android, it can be used with Wi-Fi, EDGE, 3G or 4G cellular anywhere in the world.

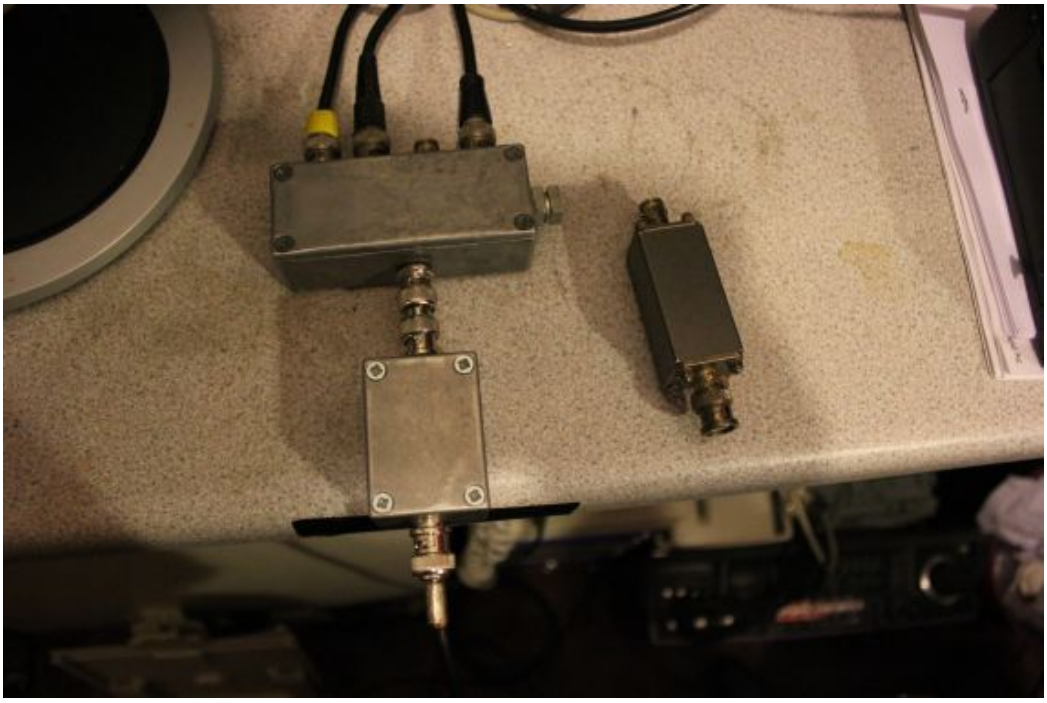
Silent Text: Encrypted text messaging with 'burn notice' feature for permanently deleting messages from device registries. Currently available for iOS with Android version pending.

Silent Eyes: Encrypted VoIP (video & voice) teleconferencing from laptops and business conference systems through Silent Circle's custom HD network. Currently available for Windows.

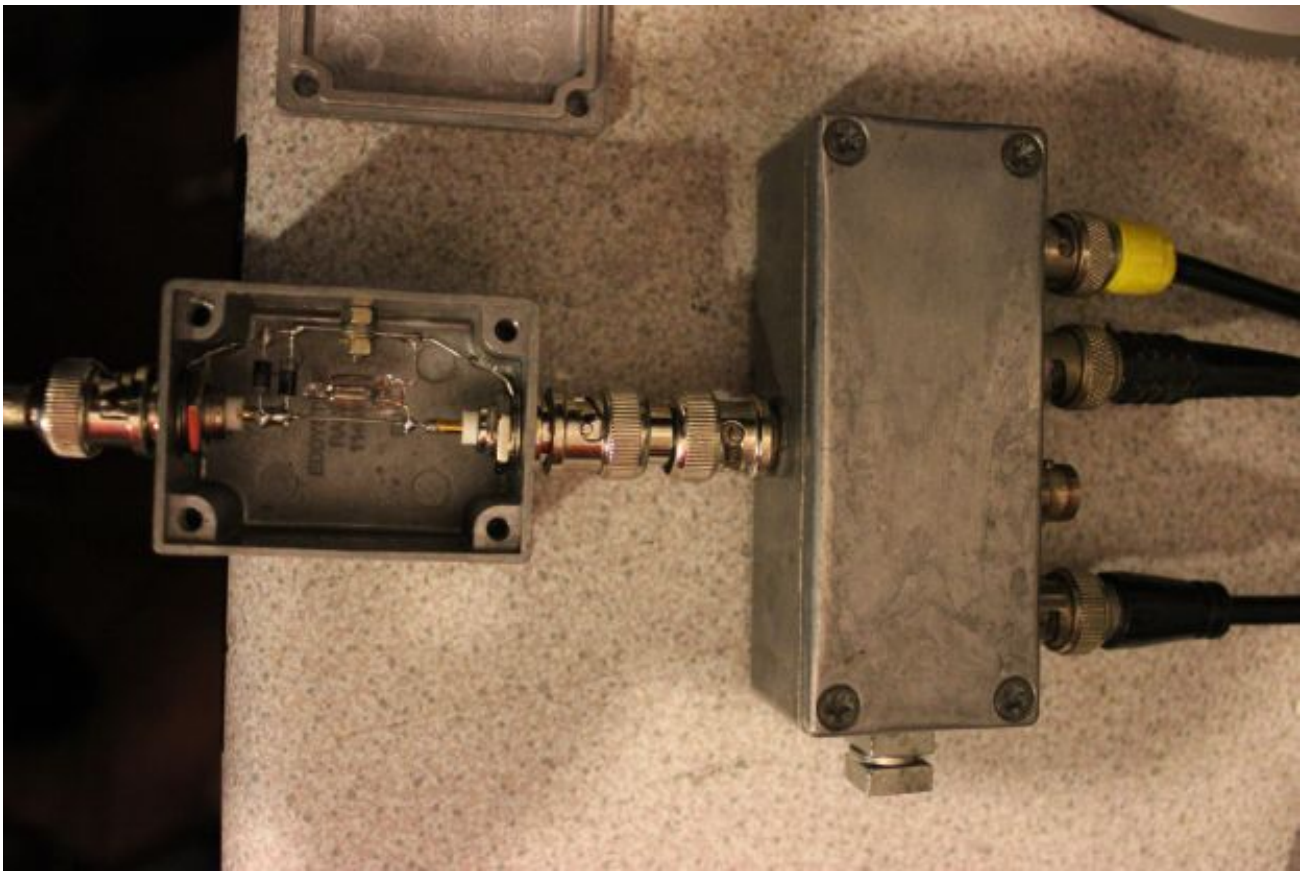
Silent Mail: Coming soon, Silent Mail will offer PGP encrypted e-mail on Silent Circle's private, secure network and compatibility with popular e-mail client software.

http://www.dailymail.co.uk/sciencetech/article-2274597/How-foil-eavesdroppers-The-smartphone-encryption-app-promises-make-communications-private-again.html

The protective diodes raised some interest and a few private emailers have asked to take a peek at how this is done by myself. These images are self explantory:



From top: Four way splitter, protective diodes and on left another set of protective diodes.



Inside the box, antenna input from Left

SPECIAL MATTERS:

Operation Jallaa: 0

MESSAGES:

Thanks for your input E. Good stuff .

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

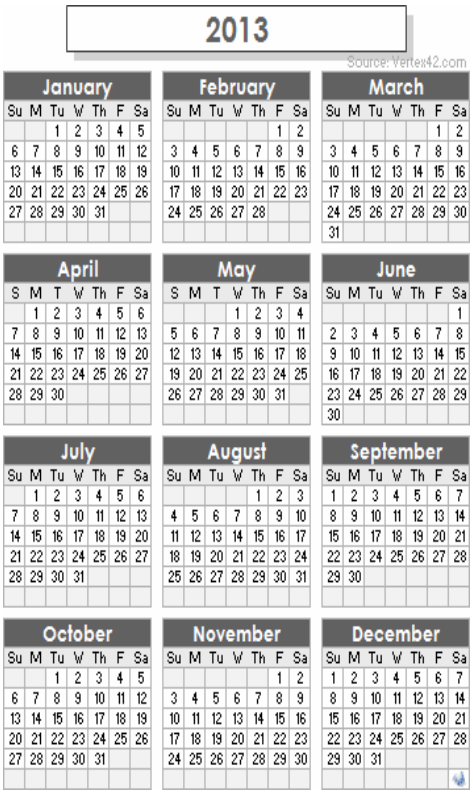


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Chart Section Index

1. Logging Abbreviations Explained

2. European Number Systems

3. Prediction Chart

4. M01, M01b and M45 Schedules

5. M12

6. Family III

7. G06

8. Cuban Schedule

9. HM01 Cuban Mixed Mode

Logging Abbreviations explained.

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

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

Station:	E07	[Traits of stations in ENIGMA Control List]
Freq:	kHz	[As above 10436kHz]
Time:	z	[Always 24hour clock, 'z' states GMT/UTC]
Date:	day/month [As above 7th June]	
Msg detail:	Varies with station	
	ID taken from 100kHz fig in freqs:	414 [freqs used in this schedule were 13468, 12141 and 10436kHz]
	Msg count	1
	Dk [decode key]:	563
	Gc [group count]:	102
	First group of msg:	92632
	Text between grps:	…
	Last group:	09526 [where more than one group is stated the use of LG ahead group indicates 'Last Group.']
	Ending:	0 0 0 0 0 0
	Time msg ends:	1753z
	Received signal strength assessment:	Fair
	Noise	QRM2
	Fading to signal	QSB2
Monitor:	PLdn	
Day heard:	SUN	
Unknown:	unk	
Repeat:	R	[which can be expanded to mean]:
Repeated :	R5m [repeated 5 mins]; R5s[repeated 5seconds], R5x [Repeated 5 times]	

Received signal strength assessment.

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

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

Guidance for this can be sought from the Q code:

QSA What is the strength of my signals (or those of...)?
The strength of your signals (or those of...) is...
1) scarcely perceptible.
2) weak.
3) fairly good.
4) good.
5) very good.
[QSA1 S0 to S1; QSA2 S1 to S3; QSA3 S3 to S6; QSA4 S6 to S9; QSA4 S9 and above]

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

Noise, Static and Fading.

Again guidance from the Q code:

Noise:

QRM Are you being interfered with?
I am being interfered with
1) nil
2) slightly
3) moderately
4) severely
5) extremely.

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

Static [Lightning and other atmospheric disturbance]:

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

Fading [Propagational disturbance]

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

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

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

Day Abbreviation

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

Mode used in transmission

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

Languages used

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

Non voice stations

M [Morse and TTY] HM [Hybrid Mode: Voice/Data] SK [Digital modes] X [Other modes]

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

See a correct example below which is now self explanatory:

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

And the incorrect version:

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

Additional Info:

Own station idents should not be used.

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

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

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

NUMBER SYSTEMS

European Numbers sytems:

English	**zero**	**one**	**two**	**three**	**four**	**five**	**six**	**seven**	**eight**	**nine**
Bulgarian	nul	edín	dva	tri	chétiri	pet	shest	sédem	ósem	dévet
French	zero	un	deux	trois	quatre	cinq	six	sept	huit	neuf
German^	null	eins	zwei	drei	vier	fünf	sechs	sieben	acht	neun
Spanish	cero	uno	dos	tres	cuatro	cinco	seis	siete	ocho	nueve
Czech	nula	jeden	dva	tr^i	chtyr^i	pêt	shest	sedm	osm	devêt
Polish	zero	jeden	dwa	trzy	cztery	pie,c'	szes'c'	siedem	osiem	dziewie,c'
Romanian	zero	unu	doi	trei	patru	cinci	s,ase	s,apte	opt	nouâ
Slovak*	nula	jeden	dva	tri	shtyri	pät'	shest'	sedem	osem	devät'
* 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	sëdam	ösam	dëve: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	piˈtka	petyorka	*peyonta*	*pyet*	*pyet*
6	szeœæ	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	khamsa	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	Jul kHz, ID, ...	Aug kHz, ID, ...
			x				0430/0450/0510		E07A	01B	7437/ 8137/ 9137 411	7437/ 8137/ 9137 411
x							0450		E11	03	10800 416/00	10800 416/00
			x	x			0500/0600		E06	01A	14580/16090 679	13930/15890 210
x							0530/0550/0610		M12	01B	6857/ 7557 850	5792/ 6992 796, search
		x		x			0545		E11	03	13424 348/00	13424 348/00
	x						0600/0610		S06S	01A	16735/15230 438	16735/15230 438
				x			0600/0610		S06S	01A	8720/10415 934	8720/10415 934
				x			0600/0610		S06S	01A	7845/ 9125 196	7845/ 9125 196
			x				0630/0650/0710		M12	01B	7984/ 9184/ 911, search	7484/ 8084/ 402, search
	x		x				0645		E11	03	13424 517/00	13424 517/00
	x						0700		E11C	03	search 758/####/##	search 758/####/##
		x					0700		E11C	03	search, ex 19183 747/####/##	search, ex 19183 747/####/##
						x	0700		M01	14	6780 025	6780 025
	x						0700/0800	2	M14	01A	9085/ 9395 576	9085/ 9395 576
	x						0700/0710(15)		S06S	01A	5430/ 6780 374	5430/ 6780 374
	x			x			0710		E11	03	14753 633/00	14753 633/00
		x					0730/0740		S06S	01A	7335/11830 745	7335/11830 745
		x					0730/0740		S06S	01A	481, search	481, search
	x		x				0745		E11	03	15632 335/00	15632 335/00
			x				0800/0810		E17Z	01A	16780/12850/ 674	16780/12850/ 674
x							0800		G06	01A	6948 215	6948 215
	x						0800/0810		S06S	01A	14373/12935 352	14373/12935 352
	x			x			0800/0820/0840		E07 XPA2	01B	search	search
					x		0800/0820/0840		E07A	01B	12173/13973/14873 198	12177/13477/14877 148
x			x				0820		E11	03	6280 438/00	6280 438/00
		x					0820/0830		S06S	01A	6755/ 5835 471	6755/ 5835 471
x				x			0830		E11	03	12924 649/00	12924 649/00

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Jul kHz, ID, ...	Aug kHz, ID, ...
		x					0840/0850		S06S	01A	10120/ 9670 328, search	10120/ 9670 328, search
x		x					0900		E11	03	13427 534/00	13427 534/00
			x		x		0900		E11	03	4909 248/00	4909 248/00
x							0900/0910		S06S	01A	16830/14835 872	16830/14835 872
			x				0900/0910		S06S	01A	12952/13565 167	12952/13565 167
			x				0900/0910		S06S	01A	5410/ 6770 624	5410/ 6770 624
	x			x			0915		S11A	03	8530 484/00	8530 484/00
			x				0930/0940		S06S	01A	9255/ 7630 314, search	9255/ 7630 314, search
				x			0930/0940		S06S	01A	10290/ 9655 516	10290/ 9655 516
		x					1000/1010		S06S	01A	14580/16020 729	14580/16020 729
x			x				1015		S11A	03	16530 475/00	16530 475/00
	x			x			1020		S11A	03	11581 426/00	11581 426/00
		x			x		1020		S11A	03	5815 221/00	5815 221/00
	x						1045		E11	03	search, ex 16125 576/00	search, ex 16125 576/00
	x	x					1045		E11	03	9610 469/00	9610 469/00
x				x			1110		E11A	03	16388 95#/##	16388 95#/##
	x	x	x				1115		M03	03	7837 272/00 (Tue) & 650/00 (Wed/Thu)	7837 272/00 (Tue) & 650/00 (Wed/Thu)
						x	1120/1220	2	E06	01A	8144/ 7384 218	8144/ 7384 218
		x	x			x	1155		E11	03	16335 718/00	16335 718/00
			x				1200/1210	?	G06	01A	search 215	search 215
x							1200/1210		S06S	01A	10230/12165 831	10230/12165 831
			x				1200/1210		S06S	01A	12155/14535 425	12155/14535 425
					x		1200/1210	1	S06S	01A	12460/10250 254	12460/10250 254
		x					1230/1240		S06S	01A	7545/ 8220 967	7545/ 8220 967
			x				1300	?	G06	01A	search 215	search 215
x	?						1300/1320/1340		M12	01B	13972/13472/11472 944	14964/13972/12164 991

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Jul kHz, ID, ...	Aug kHz, ID, ...
			x		x		1310/1330/1350		M12	01B	13926/12126/ 919, search	14468/13568/12178 451
			x			x	1320		M03	03	7837 437/00	7837 437/00
				x	x		1325		G11	03	5815 299/00	5815 299/00
	x				x		1400		E11A	03	13722 98#/##	13722 98#/##
				x		x	1420		M03	03	search, ex 13911 879/00	search, ex 13911 879/00
		x			x		1445		E11	03	4909 287/00	4909 287/00
					x		1500		M01	14	6434 025	6434 025
		x					1500/1520/1540		M12	01B	14492/13392/11092 944	13918/12218/10818 991
	x						1500/1510		S06S	01A	6666/ 7744 537, search	6666/ 7744 537, search
				x			1515		M01B	14	5810 158	5810 158
			x				1505		M01B	14	5938 159	5938 159
	x				x		1535		M03	03	6524 798/00	6524 798/00
x						x	1540		E11	03	16335 228/00	16335 228/00
					x		1600 (1605)		S06	01A	764, search	764, search
		x					1600/1620/1640		M12	01B	12162/11561/10711 546	12162/11561/10711 546
x							1700	1/2	G06	01A	5476 564	5476 564
x			x				1700/1720/1740		M12	01B	9176/ 7931/ 6904 257	9176/ 7931/ 6904 257
		x					1700/1720/1740		M12	01B	8047/ 6802/ 5788 463	8047/ 6802/ 5788 463
		x				x	1700/1720/1740		E07	01B	x13468/11454/ 10126 441, search	x13388/12088/ 10504 305, search
			x				1700/1720/1740		M12	01B	10343/ 9264/ 8116 124	10343/ 9264/ 8116 124
	x		x				1702		M45	14	5074, 5474 074	5074, 5474 074
x				x			1710		E11A	03	10487 95#/##	10487 95#/##
			x				1730		E11	03	8088 416/00	8088 416/00
	x		x				1730/1750/1810		XPA	01B	10943/10243/ 9243	12107/10787/ 9387
	x		x				1742		S21	14	4973, 5373 973	4973, 5373 973
	x					x	1755		G11	03	5815 270/00	5815 270/00
x							1800	1/2	G06	01A	5783 564	5783 564

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Jul kHz, ID, ...	Aug kHz, ID, ...
	x		x				1800		M01	14	5280 025	5280 025
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		1810		E11A	03	14518 98#/##	14518 98#/##
x							1810		M01B	14	5125, 5735 364	5125, 5735 364
x							1815/1915	2/4	S06	01A	15850/13505 376	15805/13380 260
	x						1820		M14	01A	6856 163	6856 163
			x				1830	2/4	G06	01A	6887 842	6887 842
	x						1830/1850/1910		M12	01B	10343/ 9264/ 8116 124	10343/ 9264/ 8116 124
		x					1830/1850/1910		M12	01B	11435/10598/ 9327 938	11435/10598/ 9327 938
		x				x	1830/1850/1910		M12	01B	new sked, search ex 10843/ 9243/ 7843 828	new sked, search ex 13984/12184/10384 913
			x				1832		M01B	14	5095, 5760 815	5095, 5760 815
				x			1900 (1905)		G06	01A	11424 239	11424 239
x			x				1900 (1905)		S06	01A	7982 (6984) 349	7982 (6984) 349
x		x					1900/1920/1940		E07	01B	14812/13412/11512 845	14378/13458/10958 349
x			x				1900/1920/1940		M12	01B	9176/ 7931/ 6904 257	9176/ 7931/ 6904 257
					x		1900/2000	1/3	S06	01A	7643/ 6833 319	7643/ 6833 319
					x		1900/2000	1/3	S06	01A	9933/ 8119 857	9933/ 8119 857
				x			1902		M01B	14	5075, 5465 336	5075, 5465 815
x							1915		M01B	14	5150, 5475 858	5150, 5475 858
		x					1920/2020	2	E06	01A	5423/ 4537 218	5423/ 4537 218
		x					1920	2/4	M14	01A	5938 417	5938 417
	x		x				1925		E11C	03	search, ex 10487 758/####/##	search, ex 10487 758/####/##
				x			1930	2/4	G06	01A	5943 218	5943 218
					x		1930 (1935)		S06	01A	8123 (6772) 426	8123 (6772) 426
			x				1942		M01B	14	5065, 5805 936	5065, 5805 936

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Jul kHz, ID, ...	Aug kHz, ID, ...
	x						2000		E11C	03	search, ex 8102 757/####/##	search, ex 8102 757/####/##
				x			2000		E11	03	9200 576/00	9200 576/00
				x			2000		G06	01A	9268 239	9268 239
				x		x	2000		G11	03	3815 262/00	3815 262/00
	x		x				2000		M01	14	4905 025	4905 025
		x					2000/2020/2040		E07A	01A	8173/ 7473/ 5773 147	8173/ 7473/ 5773 147
				x			2010		M01B	14	4895, 5340 467	4895, 5340 467
			x				2010/2030/2050		E07	01B	11539/10547/ 553, search	10752/ 9147/ 7637 716
			x				2030	1/3	E06	01A	5948 724	5948 724
		x					2100/2120/2140		M12	01B	9379/ 7979/ 6879 398	8123/ 6923/ 5823 198, search
		x			x		2110/2130/2150		M12	01B	14869/13569/12169 851	13369/12179/10469 314
				x			2130		E06	01A	5731 315	5731 315

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

	Jan	Feb	Mar	Apr	May	Jun	Jly	Aug	Sept	Oct	Nov	Dec
ID	**159**	**159**	**159**	**159**	**159**	**159**	**159**	**159**	**159**	**159**	**159**	**159**
1505				5938	5938	5938	5938	5938	5938	5938		
1605	5938	5938	5938								5938	5938
ID				**201**	**815**	**815**	**815**	**815**	**201**	**201**		
1832				3510	5095	5095	5095	5095	3510	3510		
//				4605	5760	5760	5760	5760	4605	4605		
ID	**910**	**910**	**201**								**910**	**910**
1932	2466	2466	3510								2466	2466
//	3545	3545	4605								3545	3545
ID				**477**	**936**	**936**	**936**	**936**	**477**	**477**		
1942				3715	5064	5064	5064	5064	3715	3715		
//				4570	5805	5805	5805	5805	4570	4570		
ID				**302**	**931**	**931**	**931**	**931**	**302**	**302**		
2032				4905	5763	5763	5763	5763	*4905*	*4905*		
//				5736	5941	5941	5941	5941	*5736*	*5736*		
ID	**382**	**382**	**477**								**382**	**382**
2042	2485	2485	3715								2485	2485
//	3160	3160	4570								3160	3160
ID	**514**	**514**	**302**								***514***	***514***
2132	4603	4603	4905								*4603*	*4603*
//	4991	4991	5736								*4991*	*4991*

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*

Revised 4th May, 2012

M12 Log1 May 2013 **Brian - S.E. England**

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Wed 1	1500	14492	1527*	13392	1552*	12126	344	661	297
	1700	8047	1720	6802	1740	5788	463		
	1830	11435	1850	10598	1910	9327	938		
	2100	9241	2120	7541	2140	- - -	258	0 0 0	
	2110	14869	2130	13569	2150	12179	851		
Thu 2	0630	7984	0650	9184	0710	- - -	911	0 0 0	
	1700	9176	1720	7931	1740	6904	257		
	1700	10343	1720	9264	1740	8116	124		
	1800	10343	1820	9264	1840	8116	124	5198	76
	1900	9176	1920	7931	1940	6904	257		
Fri 3	1800	10343	1820	9264	1840	8116	124		
Sat 4	1310	13926	1330	12126	1350	- - -	919	0 0 0	
	2110	14869	2130	13569	2150	12179	851	4333	89
Sun 5	None	Found							
Mon 6	0430	6857	0450	7557	0510	- - -	850	0 0 0	
	1300	14372	1320	13472	1340	11472	344	9868	149
	1600	12162	1620	11566	1640	10711	546		
	1700	9176	1720	7931	1740	6904	257		
	1800	9176	1820	7931	1840	6904	257		
	1900	9176	1920	7931	1940	6904	257	7220	75
Tue 7	1830	10343	1850	9264	1910	8116	124		

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Wed 8	1500	14492	1520	13392	1540	12126	344	9868	149
	1700	8047	1720	6802	1740	5788	463		
	1830	11435	1850	10598	1910	9327	938		
	2100	9241	2120	7541	2140	- - -	258	0 0 0	
	2110	14869	2130	13569	2150	12179	851	9425	133
Thu 9	0630	7984	0650	9184	0710	- - -	911	0 0 0	
	1310	13926	1330	12126	1350	- - -	919	0 0 0	
	1700	9176	1720	7931	1740	6904	257		
	1700	10343	1720	9264	1740	8116	124		
	1800	10343	1820	9264	1840	8116	124	3336	70
	1900	9176	1920	7931	1940	6904	257		
Fri 10	1800	10343	1820	9264	1840	8116	124		
Sat 11	1310	13926	1330	12126	1350	- - -	919	0 0 0	
	2110	14869	2130	13569	2150	12179	851	9425	133
Sun 12	None	Found							
Mon 13	0430	6857	0450	7557	0510	- - -	850	0 0 0	
	1300	14372	1320	13472	1340	11472	344	6349	191
	1600	12162	1620	11566	1640	10711	546	7738	97
	1700	9176	1720	7931	1740	6904	257	7772	78
	1800	9176	1820	7931	1840	6904	257	6645	64
	1900	9176	1920	7931	1940	6904	257	5775	73
Tue 14	1830	10343	1850	9264	1910	8116	124	6928	68

Many of the regular scheds were missing during the 1st and 2nd week with all scheds returning from Mon 14 (except 851 which returned on Wed 08)

The missing scheds are shown in RED

*** Time of transmissions offset due to length of message**

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

M12 Log2 May 2013 **Brian - S.E. England**

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Wed 15	1500	14492	1520	13392	1540	12126	344	6349	191
	1700	8047	1720	6802	1740	5788	463	2520	97
	18**30**	11435	18**50**	10598	19**10**	9327	938	3478	57
	2100	9241	2120	7541	2140	6841	258	519	89
	21**10**	14869	21**30**	13569	21**50**	12179	851	9676	75
Thu 16	06**30**	7984	06**50**	9184	07**10**	- - -	911	0 0 0	
	13**10**	13926	13**30**	12126	13**50**	10926	919	1992	117
	1700	9176	1720	7931	1740	6904	257	5596	95
	1700	10343	1720	9264	1740	8116	124	4675	74
	1800	10343	1820	9264	1840	8116	124	7823	78
	1900	9176	1920	7931	1940	6904	257	5681	69
Fri 17	1800	10343	1820	9264	1840	8116	124	1051	84
Sat 18	13**10**	13926^	13**30**	12126	13**50**	10926	919	1992	117
	21**10**	14869^	21**30**	13569	21**50**	12179	851	9676	75
Sun 19	None	Found							
Mon 20	04**30**	6857	04**50**	7557	05**10**	- - -	850	0 0 0	
	1300	14372	1320	13472	1340	11472	344	8188	139
	1600	12162	1620	11566	1640	10711	546	6548	96
	1700	9176^	1720	7931	1740	6904	257	8954	70
	1800	9176	1820	7931	1840	6904	257	7747	65
	1900	9176	1920	7931	1940	6904	257	7780	80
Tue 21	18**30**	10343	18**50**	9264	19**10**	8116	124	8356	68

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Wed 22	1500	14492	1520	13392	1540	12126	344	8188	139
	1700	8047	1720	6802	1740	5788	463	1915	98
	18**30**	11435	18**50**	10598	19**10**	9327	938	5636	65
	2100	9241	2120	7541	2140	- - -	258	0 0 0	
	21**10**	14869	21**30**	13569	21**50**	12179	851	2422	93
Thu 23	06**30**	7984	06**50**	9184	07**10**	- - -	911	0 0 0	
	1700	9176	1720	7931	1740	6904	257	7062	91
	1700	10343	1720	9264	1740	8116	124	1049	74
	1800	10343	1820	9264	1840	8116	124	3340	93
	1900	9176	1920	7931	1940	6904	257	3342	68
Fri 24	1800	10343	1820	9264	1840	8116	124	209	51
Sat 25	13**10**	13926	13**30**	12126	13**50**	- - -	919	0 0 0	
	21**10**	14869	21**30**	13569	21**50**	12179	851	2422	93
Sun 26	None	Found							
Mon 27	04**30**	6857	04**50**	7557	05**10**	- - -	850	0 0 0	
	1300	14372	1320	13472	1340	11472	344	1817	139
	1600	12162	1620	11566	1640	10711	546	209	51
	1700	9176	1720	7931	1740	6904	257	3567	74
	1800	9176	1820	7931	1840	6904	257	3268	62
	1900	9176	1920	7931	1940	6904	257	4909	87
Tue 28	18**30**	10343	18**50**	9264	19**10**	8116	124	5218	69

Many of the regular scheds were missing during the 1st and 2nd week with all scheds returning from Mon 14 (except 851 which returned on Wed 08)

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

M12 Log1 Jun 2013 **Brian - S.E. England**

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Sat 1	1310	13873^	1330	13373	1350	- - -	834	0 0 0	
	2110	NH	2130	14669^	2150	13369	263	9913	107
Sun 2	None	Found							
Mon 3	0430	6857	0450	7557	0510	- - -	850	0 0 0	
	1300	14524	1320	13524	1340	11524	555	7926	155
	1700	9176^	1720	7931	1740	6904	257	3474	76
	1800	9176^	1820	7931	1840	6904	257	5437	67
	1700	9176	1920	7931	1940	6904	257	1217	95
Tue 4	1830	10343	1850	9264	1910	8116	124	6453	63
Wed 5	1500	14964	1520	13972	1540	12164	555	7926	155
	1700	8047	1720	6802	1740	5788	463	1846	91
	1830	11435	1850	10598	1910	9327	938	6750	62
	2100	9986	2120	9086	2140	7386	903	7757	97
	2110	16269	2130	14669	2150	13369	263	1911	71
Thu 6	0630	7984	0650	9184	0710	- - -	911	0 0 0	
	1700	9176^	1720	7931^	1740	6904^	257	???	???
	1700	10343	1720	9264	1740	8116	124	8003	73
	1800	10343	1820	9264	1840	8116	124	6093	93
	1900	9176^	1920	7931	1940	6904	257	2124	63
Fri 7	None	Found							

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Sat 8	2110	16269	2130	14669	2150	13369	263	1911	71
Sun 9	Not	Moni	-tored						
Mon 10	0430	6857	0450	7557	0510	- - -	850	0 0 0	
	1300	14524^	1320	13524	1340	11524	555	7395	215
	1600	11435	1620	10598	1640	9327	938	8513	112
	1700	9176^	1720	7931	1740	6904	257	3913	77
	1800	9176^	1820	7931	1840	6904	257	2762	62
	1700	9176^	1920	7931	1940	6904	257	1020	88
Tue 11	1830	10343	1850	9264	1910	8116	124	3123	53
Wed 12	1500	14964	1520	13972	1540	12164	555	7395	215
	1700	8047	1720	6802	1740	5788	463	6300	100
	1830	11435	1850	10598	1910	9327	938	1186	69
	2100	9986	2120	9086	2140	- - -	903	0 0 0	
	2110	16269	2130	14669	2150	13369	263	1900	119
Thu 13	0630	7984^	0650	9184	0710	- - -	911	0 0 0	
	1310	13873	1330	13373	1350	11473	834	3576	143
	1700	9176^	1720	7931	1740	6904	257	5 . 10	91
	1700	10343^	1720	9264^	1740	8116	124	1187	70
	1800	10343	1820	9264	1840	8116	124	8664	99
	1900	9176	1920	7931	1940	6904	257	7630	68
Fri 14	None	Found							

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

M12 Log2 Jun 2013 **Brian - S.E. England**

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Sat 15	13**10**	13873	13**30**	13373	13**50**	11473	834	3576	143
	21**10**	16269	21**30**	14669	21**50**	13369	263	1900	119
Sun 16	Not	Moni	-tored						
Mon 17	04**30**	6857	04**50**	7557	05**10**	- - -	850	0 0 0	
	1300	14524	1320	13524	1340	11524	555	6018	141
	1600	11435	1620	10598	1640	9327	938	265	52
	1700	9176	1720	7931	1740	6904	257	4382	77
	1800	9176	1820	7931	1840	6904	257	1642	64
	1700	9176	1920	7931	1940	6904	257	2791	94
Tue 18	18**30**	10343	18**50**	9264	19**10**	8116	124	1969	65
Wed 19	1500	14964	1520	13972	1540	12164	555	6018	141
	1700	8047	1720	6802	1740	5788	463	7313	95
	18**30**	11435	18**50**	10598	19**10**	9327	938	4853	54
	2100	9986	2120	9086	2140	- - -	903	0 0 0	
	21**10**	16269	21**30**	14669	21**50**	13369	263	4662	85
Thu 20	0630	7984^	0650	9184	0710	- - -	911	0 0 0	
	13**10**	13873	13**30**	13373	13**50**	- - -	834	0 0 0	
	1700	9176	1720	7931^	1740	6904	257	7596	91
	1700	10343	1720	9264	1740	8116	124	8932	71
	1800	10343	1820	9264	1840	8116	124	2983	87
	1900	9176	1920	7931	1940	6904	257	7652	62
Fri 21	None	Found							

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Sat 22	13**10**	13873	13**30**	13373	13**50**	- - -	834	0 0 0	
	21**10**	16269	21**30**	14669	21**50**	13369	263	4662	85
Sun 23	None	Found							
Mon 24	04**30**	6857	04**50**	7557	05**10**	- - -	850	0 0 0	
	1600	11435	1620	10598	1640	9327	938	8957	105
	1700	9176^	1720	7931	1740	6904	257	4621	72
	1800	9176	1820	7931	1840	6904	257	1180	60
	1700	9176	1920	7931	1940	6904	257	2199	88
Tue 25	18**30**	10343	18**50**	9264	19**10**	8116	124	6574	58
Wed 26	1500	14964	1520	13972	1540	12164	555	6429	187
	1700	8047	1720	6802	1740	5788	463	6263	91
	18**30**	11435	18**50**	10598	19**10**	9327	938	8995	57
	2100	9986	2120	9086	2140	7368	903	2284	63
	21**10**	16269	21**30**	14669	21**50**	13369	263	7393	103
Thu 27	0630	7984	0650	9184	0710	- - -	911	0 0 0	

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

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	May kHz, ID, ...	Jun kHz, ID, ...	Jul kHz, ID, ...	Aug kHz, ID, ...	General Remarks
x							0450		E11	03	10800 416/00	10800 416/00	10800 416/00	10800 416/00	since 02/10, **last log 05/13**
		x		x			0545		E11	03	13424 348/00	13424 348/00	13424 348/00	13424 348/00	since 06/11, **last log 06/13**
	x		x				0645		E11	03	13424 517/00	13424 517/00	13424 517/00	13424 517/00	since 07/09, **last log 06/13**
	x						**0700**		**E11C**	**03**	**search** **758/####/##**	**search** **758/####/##**	**search** **758/####/##**	**search** **758/####/##**	since 11/12, last log 04/13 inactive?
		x					**0700**		**E11C**	**03**	**search, ex 19183** **747/####/##**	**search, ex 19183** **747/####/##**	**search, ex 19183** **747/####/##**	**search, ex 19183** **747/####/##**	since 08/12, last log 04/13 inactive?
	x			x			0710		E11	03	14753 633/00	14753 633/00	14753 633/00	14753 633/00	since 02/11, **last log 06/13**
	x		x				0745		E11	03	15632 335/00	15632 335/00	15632 335/00	15632 335/00	since 10/11, **last log 06/13**
x			x				0820		E11	03	6280 438/00	6280 438/00	6280 438/00	6280 438/00	since 10/09, **last log 06/13**
x				x			0830		E11	03	12924 649/00	12924 649/00	12924 649/00	12924 649/00	since 01/10, **last log 06/13**
x		x					0900		E11	03	13427 534/00	13427 534/00	13427 534/00	13427 534/00	since 10/09, **last log 06/13**
			x		x		0900		E11	03	4909 248/00	4909 248/00	4909 248/00	4909 248/00	since 02/10, **last log 05/13**
	x			x			0915		S11A	03	8530 484/00	8530 484/00	8530 484/00	8530 484/00	since 01/10, **last log 06/13**
x			x				1015		S11A	03	16530 475/00	16530 475/00	16530 475/00	16530 475/00	since 04/10, **last log 05/13**
	x			x			1020		S11A	03	11581 426/00	11581 426/00	11581 426/00	11581 426/00	since 02/10, **last log 06/13**
		x			x		1020		S11A	03	5815 221/00	5815 221/00	5815 221/00	5815 221/00	since 01/09, **last log 05/13**
	x						1045		E11	03	search, ex 16125 576/00	search, ex 16125 576/00	search, ex 16125 576/00	search, ex 16125 576/00	since 01/12, last log 04/13 inactive?
	x	x					1045		E11	03	9610 469/00	9610 469/00	9610 469/00	9610 469/00	since 03/10, **last log 06/13**
x				x			1110		E11A	03	16388 95#/##	16388 95#/##	16388 95#/##	16388 95#/##	since 12/11, **last log 06/13**
	x	x	x				1115		M03	03	7837 272/00 (Tue) & 650/00 (Wed/Thu)	7837 272/00 (Tue) & 650/00 (Wed/Thu)	7837 272/00 (Tue) & 650/00 (Wed/Thu)	7837 272/00 (Tue) & 650/00 (Wed/Thu)	since 10/09, **last log 05/13**
		x	x			x	1155		E11	03	16335 718/00	16335 718/00	16335 718/00	16335 718/00	since 04/11, **last log 05/13**
			x			x	1320		M03	03	7837 437/00	7837 437/00	7837 437/00	7837 437/00	since 02/11, **last log 05/13**
				x	x		1325		G11	03	5815 299/00	5815 299/00	5815 299/00	5815 299/00	since 03/10, **last log 06/13**
	x				x		1400		E11A	03	**13722** 98#/##	**13722** 98#/##	13722 98#/##	13722 98#/##	since 10/11, **last log 06/13**
				x		x	1420		M03	03	search, ex 13911 879/00	search, ex 13911 879/00	search, ex 13911 879/00	search, ex 13911 879/00	since 01/12, last log 04/13 inactive?
		x			x		1445		E11	03	4909 287/00	4909 287/00	4909 287/00	4909 287/00	since 11/10, **last log 05/13**
	x				x		1535		M03	03	6524 798/00	6524 798/00	6524 798/00	6524 798/00	since 11/10, **last log 06/13**
x						x	1540		E11	03	16335 228/00	16335 228/00	16335 228/00	16335 228/00	since 03/11, **last log 06/13**
x				x			1710		E11A	03	10487 95#/##	10487 95#/##	10487 95#/##	10487 95#/##	since 11/11, **last log 06/13**
			x				1730		E11	03	8088 416/00	8088 416/00	8088 416/00	8088 416/00	since 03/10, **last log 06/13**
	x					x	1755		G11	03	5815 270/00	5815 270/00	5815 270/00	5815 270/00	since 02/10, **last log 06/13**
	x				x		1810		E11A	03	14518 98#/##	14518 98#/##	14518 98#/##	14518 98#/##	since 08/12, **last log 06/13**
	x		x				1925		E11C	03	search, ex 10487 758/####/##	search, ex 10487 758/####/##	search, ex 10487 758/####/##	search, ex 10487 758/####/##	since 08/12, last log 04/13 inactive?
	x						2000		E11C	03	search, ex 8102 757/####/##	search, ex 8102 757/####/##	search, ex 8102 757/####/##	search, ex 8102 757/####/##	since 12/11, last log 04/13 inactive?
				x			2000		E11	03	**9200** 576/00	**9200** 576/00	**9200** 576/00	**9200** 576/00	since 03/12, **last log 06/13**
				x		x	2000		G11	03	3815 262/00	3815 262/00	3815 262/00	3815 262/00	since 01/11, **last log 06/13**

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	May kHz, ID, ...	Jun kHz, ID, ...	Jul kHz, ID, ...	Aug kHz, ID, ...	General Remarks
x							0800		G06	01A	6948 215	6948 215	6948 215	6948 215	since 07/10, **last log 06/13**
			x				1200/1210	?	G06	01A	search 215	search 215	search 215	search 215	since 09/11, last log 03/13
			x				1300	?	G06	01A	search 215	search 215	search 215	search 215	since 09/11, last log 04/13
x							1700	1/2	G06	01A	**5476** **564**	**5476** **564**	**5476** **564**	**5476** **564**	since 04/10, **last log 06/13** yearly changing frequencies + id
x							1800	1/2	G06	01A	**5783** **564**	**5783** **564**	**5783** **564**	**5783** **564**	since 05/09, **last log 06/13** yearly changing frequencies + id
			x				1830	2/4	G06	01A	6887 842	6887 842	6887 842	6887 842	since 05/01, **last log 05/13**
				x			**1900 (1905)**		**G06**	**01A**	**11424** **239**	**11424** **239**	**11424** **239**	**11424** **239**	**since 05/13, last log 06/13**
				x			1930	2/4	G06	01A	5943 218	5943 218	5943 218	5943 218	since 04/01, **last log 06/13** rpt of Thu 1830Z
				x			**2000**		**G06**	**01A**	**9268** **239**	**9268** **239**	**9268** **239**	**9268** **239**	**since 04/13, last log 06/13**

Current Cuban Skeds V02/M08/SK01
May-June 2013

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

Notes
V02a skeds are indicated in italic fonts.
M08a skeds are indicated in normal fonts.
SK01 skeds are in normal fonts with (SK) after the frequency
The primary or first sked is indicated with (P).
The secondary, second or repeat sked is indicated with (S).
All skeds normally begin on the hour.
Frequencies listed as ( ), denote primary or secondary sked not determined.
Frequencies listed without ( ), denotes a possible sked.
Message types shown without frequency indicate possible sked on unknown frequency
Frequencies in Bold indicate heard in the previous two months. Normal font indicates heard 2-4 months ago.

Thanks to Cuban Desk Contributors
Roland (py4zbz), Hans Snekvik, Vince Havrilko, Daniel, GD, Jochen NumbersKopf, Steve H, JimKC

HM01 Schedule

Freq 1	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
5855	0500	0500		0500		0500	
12120			0500		0500		0500
14375			0500		0500		0500
10345	0600	0600		0600		0600	
14375			0600		0600		0600
9330	0700	0700		0700		0700	
13435			0700		0700		0700
9065	0800	0800		0800		0800	
11635			0800		0800		0800
9240	0900	0900		0900		0900	
12120			0900		0900		0900
5855	1000	1000		1000		1000	
9155	1000	1000		1000		1000	
12180			1000		1000		1000
11635			1000		1000		1000
11435	1600	1600	1600	1600	1600	1600	1600
11530	1700	1700	1700	1700	1700	1700	1700
11635	1800	1800	1800	1800	1800	1800	1800
11635	2100	2100		2100		2100	
16180			2100		2100		2100
10715	2200	2200		2200		2200	
17480			2200		2200		2200
11530	2300	2300		2300		2300	
17540			2300		2300		2300
							27/06/2013