ENIGMA 2000 NEWSLETTER

http://www.enigma2000.org.uk

S06s
Is this, or has it ever been,
the transmission site?

COVER STORY PAGE 2

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S06s transmission site uncovered?

Front Cover Story

At the beginning of March I received an email from Brian to say that he had discovered a statement that made reference to the Jan/Feb and Nov/Dec 20M Wednesday transmission at 1010z. That someone had heard S06s doing its thing there is not surprising at all, given the regularity and size of operation of this family of Number Stations; what else was stated was very surprising.

See Fig 1 below:

1. **Clandestine on 14280 kHz**
   The number station on 14280 kHz, still transmitting in AM every Wednesday at 1000 utc, has been observed again.
   Location: Rivne, Ukraine – real purpose unknown
   The same station has been mentioned in the [redacted].

Fig 1

That the location of Rivne in the Ukraine was stated was rather surprising. PLdn decided to see what he could find out, contacting the persons concerned to ask the obvious questions:

"14280.000 1000 Wed.day UKR A3E Ukraine secret service SZRU - spy msgs

In *censored* the above stated reference to the number station was recently seen by one of our members.

That member is a Morse operator and Researcher for ENIGMA 2000, an organisation dedicated to following Number Stations.

The station to which you refer is known to us as S06s, the frequency you state being used in the months January, February, November and December after which it migrates to 14505 and 16020kHz.

That station, which has been modified in traits a few times, belongs to a family that has many schedules, mainly Russian language but also boasts English and German language schedules [E06, E17z and G06] as well as a Morse sister [M14]. The idents in parentheseis can easily be followed in our newsletter, enclosed.

Historically, these stations have always been attributed to the KGB/GRU/FSB but you state with certainty the station is transmitted on behalf of Ukraine's SZRU.

If this is true, then our records need to be changed.

The transmissions in your above stated reference carried the following messages:

14280kHz1010z	02/11[729 845 6 15705 74651 90855 64244 31258 83515 845 6 00000(s)] 1015z Fair QRN2 QSB2	Spectre	WED
1010z	09/11[729 845 6 15705 74651 90855 64244 31258 83515 845 6 00000(s)] 1015z Fair QRN2 QSB2	Spectre	WED
1010z	16/11[729 501 6 56088 26274 64288 07482 10647 97664 501 6 00000(s)] 1015z Fair QRN2 QSB2	Spectre	WED
1010z	23/11[729 501 6 56088 26274 64288 07482 10647 97664 501 6 00000(s)] 1015z Fair QRN2 QSB2	FN, Spectre	WED
1009z	30/11[729 00000(s)] 1013z Fair QRN2 QSB2	M8, Spectre	WED

I write to ask if you could please let me know how you came about the information of its origins, or at least the reliability of that information."

PLdn received a reply the very next day. In the reply, which will not be shewn here and for good reason, the person who penned it left us with no doubt that the area of transmission was central Ukraine; we could not argue with the professionalism of the persons who provided that information.

In the background of this look into the possible transmission site the website attributable to Ukraine's SZRU was looked at and assessed, see fig 2:

Fig 2

What is interesting that they cite SIGINT as a necessary tool of the SZRU later on in the same frame, shewing a dish [no use for shortwave of course] and one must ask where their receiving antennae are. [*If anyone knows we are interested to know also*].

The content referred to on SIGINT in part reads, “SIGINT is an important system creating part of the SZRU. With the help of special methods it provides the collection of reliable documentary information from the international telecommunication networks.Ukrainebelongs to a number of countries that have the potential for the realization of a complete cycle of signal intelligence.

“SIGINT Department and its territorial units have at its disposal the unique equipment, officers experienced in the spheres of radio interception and cryptography, the system programmers and analysts. This enables to obtain regularly the most valuable confidential information of political, economic, scientific, technical and military strategic character, to provide an active participation of the SZRU in counterring terrorism and transnational organized crime.

“Following the tendencies of the electric communication world system development allows the SIGINT Department of the SZRU to make exact prognosis in time; to form and implement new technologies of collection intelligence information. The basis of the achievement in the area of scientific research is the high level of their own technical progressive researches. Today the SIGINT Department is armed with the apparatus and programming complexes produced inUkraine. The comprehension of SIGINT researches became the awarding of the group of scientists by the State Prize of Ukraine in the area of Science and Technique.2

The interesting image of the dish, presumably[?] serving the SZRU is shewn after the above interesting statement, Fig 3

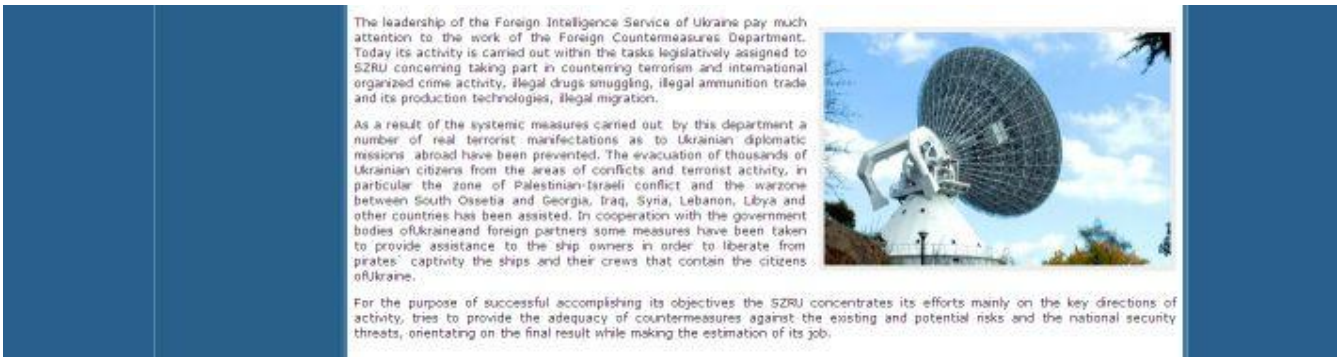


Fig 3

The site is interesting indeed and further states, “The leadership of the Foreign Intelligence Service of Ukraine pay much attention to the work of the Foreign Countermeasures Department. Today its activity is carried out within the tasks legislatively assigned to SZRU concerning taking part in counterring terrorism and international organized crime activity, illegal drugs smuggling, illegal ammunition trade and its production technologies, illegal migration.” That the SZRU has a SIGINT capability cannot be denied.”

Three bearings have been taken on S06s, two transmissions as logged below, Fig 4:

13365kHz1000z	06/03[729 431 5 ….]	with strong signal and msg	Kopf	WED
14505kHz1010z	06/03[729]	Strong	PLdn	WED

Fig 4

The uncorrected bearings, taken by DoK on the earlier S06s sending at 1000z and the next at 1010z were both 085º and the resultant plot cut central Ukraine, proving that the ENIGMA 2000 bearing matched that of the very professional unit that had taken the earlier aforementioned bearing. However, that bearing was not the first known to ENIGMA2000 because PLdn had already taken a bearing in 2008, also giving an uncorrected 085º. It’s worth noting here that both PLdn and DoK live on the same line of Longitude and are separated by ~15miles.

Fig 5 shews the resultant plot:

Fig 5

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?

Thanks to all involved with this piece, invaluable help indeed. Also to Google Earth forFront Page image.

Editorial

Whilst conditions in March were passable April seemed blighted by poor propagation and for some of us a plethora of strange noises too. PLT has reared its head at two monitors QTHs as well as me. The rush for the stores to dump this terrible product on those who need to transfer data/TV at low prices to clear their stock seems to have actually drawn some customers.

Those of us who have suffered this horrible and invasive interference were prompted to seek help from OFCOM; however certain acts caused OFCOM to transfer the investigations to the BBC who, existing purely on public money, are doing nothing. If you are a licensed amateur OFCOM will pay a visit. However there is another solution and one which I became aware of before the PLT units were on sale.

The answer is the Phase Noise Remover. Timewave [in US but will export] have their ANC-4 and MFJ, their MFJ1025 and MFJ1026. I use the ANC-4 [I have three] to good effect and one other member uses the MFJ1026. There are other versions of phase cancellers available elsewhere.

For those who don't want to purchase ready made units a two part article in PWP's 'Radio User' March/April 2013 covered the noise problem and provided access to circuits on line as well as printing them in the magazine. Yours truly is putting together a Phase Noise Cancelling unit to see how those in the articleoperate.

We were lucky to get the break with S06 transmitter site; we may well have had some success with M51/FAV22 as well – watch this space. Thanks to all those involved with the hunt for S06.

Holiday Cover

Now a quick word to thank those who covered the Polytones whilst I was away in Dubai. Due to the strict regulations there I took only a simple receiver which I used to monitor the two freqs 6140 and 9450kHz. Interestingly I heard 6140 raise a couple of times but being close to the Straits of Hormuz coverage of the 9450kHz freq was ruined by VOIRB Hindi transmission on 9455kHz, the splatter from sidebands being unmanageable.

Thanks to those who provided coverage, and bearings too.

Morse Station Roundup.

We have had a large number of Morse logs submitted over the last two months. Thanks to all of you - both our regular contributors & also our new members who have sent in logs for the first time. The quality is excellent & your logs are the lifeblood of the newsletter.

Some rare catches this time. We have an M01a log from Fritz (FN) & of M01c from Ary (AB) - both difficult variants to find due to the apparent random nature of the transmissions, and we have an M14a from Jean-Paul (JPL) - another difficult transmission to find. Well done to all!

Let's hope that this new activity will encourage all of our members to spend more time on the bands - There's still plenty to be found out there.

M01a A rare log of this M01 variant from Fritz (FN) on 01 April.

M01b Increased loggings of this regular variant as signals improve with the changing season.

M01c Another rarity. Not reported very often, Ary (AB) managed to log a sequence of transmissions from this station on 12 April.

M08a There have been a few reports coming in that show M08a is not dead yet. We would like to appeal to all our members in the USA to look out for these signals. The situation is probably still changing & it would be good if we could have some idea of how active this station still is.

M12 This usually faultless station has suffered some transmission errors of late, including call-up restarts, clipped IDs & even duplicated grps on one transmission.

M14 Hans-Friedrich (HFD) reports on a strange anomaly monitored in April, where regular scheds of both M14 & E06 seems to have been the subject of some confusion with mode and IDs.

M18 Jean-Paul (JPL) reports that M18 has not been heard on the usual 3803kHz, which appears to have abandoned in favour of 4073kHz

M23 Looked to be promising a period of activity when found by Richard (RNGB) at the end of March, but has failed to appear since although the hourly 'did', indicating an active frequency have been heard daily.

M89 Jean-Paul (JPL) presents some new findings with regards to msg structure and repeated msgs for this very active station, as well as providing a comprehensive logging of the mass of changes in calls and frequencies that are still taking place.

M94 Token (T!) sends us some rare and welcome news on this station - including a schedule of both M94 & sister station V24.

M97 Continued to repeat the same two msgs first heard on 17 Jan periodically, but without any apparent pattern until 27 Mar. Then followed 13 days of silence after which we were rewarded with a new msg SD81 with 70 grps which has been repeated several times since.

Beacons This section has proved to be very popular following the list published in the last newsletter (EN75) & another full list is included from your logs.

Voice Stations Round up

Spectre notes: some Famly Ia stations have been transmitting some strange test signals 1 hour prior to sending their main transmission. Also some stations E06, G06 and S06s have slightly changed frequencies.

For example:

Tuesdays S06s 1510z 7245kHz schedule transmitted at 7242kHz
Thursdays G06 1830z 5935kHz schedule transmitted at 5934kHz
Thursdays E06 2030z 5186kHz schedule transmitted at 5189kHz

Also Test Transmissions don't appear to count 1 to 9 anymore:

E06 5189kHz 1933z 18/04 [1234 0 1332 0] 1936z Fair QRN2 QSB2 Spectre THU
G06 5442kHz 1825z 26/04 [56789 QRT] 1827z Fair QRN3 QSB3 Spectre FRI
G06 5442kHz 1830z 26/04 [12345 QRT] 1832z Fair QRN3 QSB3 Spectre FRI

E06: Excellent coverage from monitors with notable group counts of 101 and 102 groups.

E07: As expected, usual signal variations and noise. FR seems to have little trouble hearing them, suggesting they are perhaps aimed in his direction
The variant E07a continues, generally with strong signals. Apart from the emergent 0800z Saturday schedule [now complete] its first sending on Friday has now been discovered.

April Freqs being 12174kHz 1510z
11074kHz 1530z
10274kHz 1550z

Well done those discovering this.

E25: Continues much as usual along with E25a. Monitoring in Ras Al Khaimah near Oman Border 6140kHz produced a bit of carrier raising; 9450kHz ruined by sideband splatter of the VOIRB Hindi Service from 1200z on 9455kHz.

G06: Expected coveage

FamIII: Good coverage with a mixed bag of signal strengths. Spectre has noted the figure 3 on G11 is now broken. See spectral image below:
[Thanks Spectre].

S06/S06s: Usual band of suspects at a variable strength.

V02a: Whilst M08a continues there have been no reports of V02a to E2k

Hybrid Mode

HM01: Continues as schedule; headway being made on decoding the RDFT files, Thanks Roland PY4ZBZ, the writer of DIGITRX, for sharing your files with us. Thanks also the other HM01 intercept ops too. The signals are being heard widely, including UK, mainland Europe and the Argentine.

Polytones

XPA: Two known schedules in existence c [currently 0600z] and e [currently 1900z, 1730z from May]. Usual mix of null and valid messages from both with better strengths copied on Schedule e freqs before its times make the seasonal change.

XPA2: Three known 20min schedules: m, p and r. Schedules m and r are still being copied in May whilst we do not have a full understanding of the schedule p which may change day as well as time within its changes.
One unid 1500z schedule sending on Sun/Tues has been copied but it is not known if this is allied to schedule p.

German Report

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

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

First of all we have brand actual news from Germany, then a lot of stuff on X06, which is going "berserk" again in these months.

"Buzzer on air" – feature in German public radio

In NL 69 and 70 I reported about an interview with a free journalist from Hamburg, who was in my home in Marburg on March 28th 2012 to interview me about the buzzer (S28). At the end of last year, she sent me the German feature "Buzzer on air", which came in the night of April 29th in German "Deutschlandradio Kultur" (00:05 our time, which is 22:05 UTC on April 28th). This was part of "Kurzstrecke" (Short range), a transmission, which presents radio pieces, features, plays or sound art experiments of different genres in a kind of contest. After bringing the piece, some experts discuss about it. The "Buzzer" piece, which is very interesting, is made as a feature. During the discussion, the experts mentioned other sound art works with shortwave, for example by Michael Snow, who lived in Canada in the early 1980s, where he was in a small house of wood with his shortwave receiver, which he zapped, and the sounds that he received were an animation for a musical composition. Another artist is Alessandro Bosetti, who also made a composition with shortwave sounds.
The Buzzer feature will be sent again 9 days later, on May 8th In the repeat (same time, same station).

X06

Our X06 team, a sub-group of E2K, had a lot of work in these months, cause X06 is going "crazy" again. As you will see, MANY transmissions were logged by our members, supported by other hobbyfriends, also from E2K. In March, the focus were the variants (X06a, b, c), in April X06 was heard on many different frequencies, some of them were new – random (or R) catches -, some others were matches (M) or "group" transmissions (G). To remember: Definition of M and R in NL 65, of G in NL 70. Definition of all types of "alerts" in NL62. One NL later, you can find a list of freqs used by X06. We would be glad, if you support our X06 team with logs, like some E2K members already do; every log is welcome!

X06 Mazielka (1C) logs section

Date	Day	UTC	Freq	Scale	Monitor	Comments
20130301	Fri	0915-0918	16219	324615	Peter/UK	Poor, M507
20130301	Fri	1004-1006	12215	361245	Peter	Good and clear, M508
20130304	Mon	0810-0813	10161	165324	Peter, Kopf	Fair, M509
20130304	Mon	0851	17511	641523	RNGB	Alert 2.1 I. p. (no end time), R
20130304	Mon	0853	18750	641523	RNGB	2.2 I.p., new freq (no end time), R
20130304	Mon	0855	12152	432516	RNGB	I. p. (no end time), R
20130304	Mon	1506	16115	215346	Peter	Fair, but faded out after 30secs, G
20130304	Mon	1519	14650	532614	Peter	Another shortie (26secs), good, R
20130304	Mon	1637-1640	11438	532614	Peter	Good, M510
20130305	Tue	0858-0940	11462	165423	Peter	Good and long, M511
20130305	Tue	0918-0921	18206	246531	Peter	Good, M512
20130305	Tue	0932-0937	13401	154263	Peter	Poor, M513
20130306	Wed	0907-0909	17445	362154	Peter, Websat/UK	Fair, G
20130306	Wed	0959-1002	18346	214356	Peter, RNGB	Fair, M514
20130307	Thu	1612-1618	13506	164532	Peter	G
20130307	Thu	1725	11411	164532	tiNG	Strong, R
20130311	Mon	0904-0907	10127	421635	Peter	Alert 2.1 Weak, M515
20130311	Mon	0906-0913	11472	421635	Peter	2.2 Good, R
20130311	Mon	0926-0933	16117	463125	Peter	Good, M516
20130311	Mon	0937-0941	10372	431625	Peter	Good, M517
20130312	Tue	0804-0806	11545	534216	Peter	Strong, M518
20130312	Tue	0842	16258	542136	Peter	Fair/poor (only 50secs), M519
20130312	Tue	1020-1025	16317	612534	Peter	Alert 2.1 Good, M520
20130312	Tue	1033	13510	612534	Peter	2.2 Poor/v weak (only 45secs), M521
20130313	Wed	0728-0730	10645	435621	Peter	Fair, M522
20130313	Wed	0853-0856	10814	412356	Peter	Good, M523
20130313	Wed	0854-0900	16116	134265	Peter	Weak, M524
20130313	Wed	0855	13419	465132	Peter	Weak, M525
20130313	Wed	1137-1200	9300	3--4--	Hans/NO	X06b i. p.
20130313	Wed	1334-1341	16115	215346	Peter	Alert 2.1 Good, G
20130313	Wed	1342-1346	14650	215346	Peter, Hans	2.2 Good, M526
20130313	Wed	1347-1349	12091	216354	Hans	Fair/strong (i. p.), G
20130314	Thu	0815-0817	12126	521634	Peter	Good, M527
20130314	Thu	0835-0837	9388	561243	Peter	Weak, M528
20130314	Thu	0944-0946	13506	164532	Peter	Strong, M529
20130315	Fri	0918	11090	123456	Peter	Weak X06c – single burst only
20130315	Fri	0928	14570	324615	Peter	Fair – single burst only -, M530
20130315	Fri	1002-1005	12215	361245	Peter	Strong, M531
20130315	Fri	1042	12100	123456	Peter	Weak X06c – single burst only
20130316	Sat	1330-1400	11570	223456	Fox/SI,Hans	Interesting and strong X06b
20130316	Sat	1402-1500	12100	223456	Hans	2nd TX of this X06b
20130316	Sat	1800-1830	7730	212112	Danix/PL	X06a variant
20130316	Sat	1800-1900	11090	223456	Danix	3rd X06b TX
20130316	Sat	2036-2041	9300	223456	Ary/NL	4th X06b TX
20130317	Sun	0802	15945	212112	RNGB	X06a variant, S9+ - over 1h!
20130318	Mon	1043-1145	11090	123456	RNGB	X06c, also S9+ and long // 20170
20130318	Mon	1043-1145	20170	123456	RNGB, Fritz	X06c, also S9+ and long // 11090
20130318	Mon	1635-1639	11438	532614	Peter	S9+, M532
20130319	Tue	0736-0916	11090	123456	Peter, Websat	X06c with S9+
20130319	Tue	0850-0854	12158	165423	Peter	Good and strong, M533
20130319	Tue	0922-0926	18206	246531	Peter	Good and strong, M534
20130319	Tue	0936-0938	13401	154263	Peter	Good and strong, M535
20130319	Tue	1806-1900	14875	123456	Peter	X06c, S9++ (not sure about freq)
20130320	Wed	0802-0820	19485	123456	RNGB	Strong X06c (i. p.)
20130320	Wed	1249	16115	?	Mike/US	No scale ID (log via UDXF/Starchat)
20130320	Wed	1256-1302	14970	216354	Danix,Peter	Fair, G
20130320	Wed	1503-1508	15819	256341	Danix	Badly over-modulated, G
20130320	Wed	1931-2129	6940	356341	Peter	X06b, strong and VERY long! // 7730
20130320	Wed	2027-2103	7730	356341	DanielE2Kde, RNGB	X06b // 6940
20130320	Wed	2216-2259	8078	165324	Peter	Very weak and long! R
20130321	Thu	0815-0820	10508	162543	Websat	V weak/fair (after CROWD36), G
20130322	Fri	0847-0850	10653	356412	Kopf, Peter, Danix	Fair, M536
20130325	Mon	0828	10690	156234	Websat	Shortie, G (followed by E11)
20130325	Mon	0903-0905	16115	421635	Peter	Alert 2.1 Fair, G
20130325	Mon	0905-0909	11541	421635	Websat	2.2 Weak (beginning with errors), G
20130325	Mon	0919-0925	10372	431625	Peter	Fair, M537
20130325	Mon	1028-1032	18060	463125	Peter	Fair, G
20130325	Mon	1818-1926	8100	123456	Peter	X06c, fair and long
20130326	Tue	0805-0809	13420	534216	Peter	Fair, M538

Date	Day	UTC	Freq	Scale	Monitor	Comments
20130326	Tue	1009-1017	13510	612534	Peter	Fair, M539
20130326	Tue	1204-1210	16115	215346	Kopf	Weak/fair, G
20130327	Wed	0844-0857	13419	465132	Peter, RNGB	Good, M540
20130327	Wed	0846-0901	16116	134265	Peter	Good, M541
20130327	Wed	1330-1333	10202	215346	Peter	Weak, M542
20130327	Wed	1613	14970	216354	Peter	Shortie (only 2 bursts), M543
20130328	Thu	0752-0755	14419	521634	Peter	Good, M544
20130328	Thu	0951-1018	13506	164532	Peter	Strong, M545
20130328	Thu	1545	14811	263145	MCO/US	Good, G
20130401	Mon	1540	11438	532614	Fritz	G (end time missing)
20130401	Mon	1643-1647	11438	532614	Peter	Strong comeback, M546 (then C36)
20130402	Tue	0758-0804	11462	165423	Peter	good, M547
20130402	Tue	0802	19874	125643	RNGB	Rare scale i. p. on new freq, R
20130402	Tue	0850-0853	12157	154263	Peter	Alert 2.1 Fair to poor, R
20130402	Tue	0856-0859	12149	154263	Peter	2.2 M548 (followed by CROWD36)
20130402	Tue	0857-0858	18206	246531	Peter	Good and clear, M549
20130403	Wed	0640-0645	14405	256341	Fritz	R
20130403	Wed	0904-0908	17445	362154	Peter	Fair, M550
20130404	Thu	0706-0715	17468	436512	Peter	Alert 7.1 Good, M551
20130404	Thu	0741-0743	17468	436512	Peter	7.2 Good, M552
20130404	Thu	0744	17468	436512	Peter	7.3 Shortie (20s), stronger, M553
20130404	Thu	0749-0804	17468	436512	Peter	7.4 Stronger, M554
20130404	Thu	1534-1545	14448	216354	Peter	Poor, R
20130405	Fri	0824-0826	14570	324615	Peter	Fair, M555
20130405	Fri	0934-0936	16103	645321	Peter	Fair, M556
20130405	Fri	0959-1002	12215	361245	Peter	Fair, M557
20130405	Fri	1427-1434	14871	156234	Peter	Strong, M558
20130406	Sat	1352-1400	18245	231654	MCO, tiNG	Alert 2.1 R
20130406	Sat	1409	16103	231654	MCO	2.2 M559
20130408	Mon	0807-0811	11537	421635	Peter	Fair, M560
20130408	Mon	0830-0833	20960	156234	Peter	Good with heavy QRM, new freq, G
20130408	Mon	0915-0926	16117	463125	Peter	Alert 1.1 Good, M561
20130408	Mon	0940-0942	10372	431625	Peter	Weak, M562
20130408	Mon	0941-0952	16117	463125	Peter,Fritz	1.2 S1 in UK, M563
20130408	Mon	1241-1248	14863	364152	Peter	Alert 2 (both fair) 1 M564
20130408	Mon	1249-1255	15656	364152	Peter	2.2 M565
20130409	Tue	0802-0805	13420	534216	Peter	Weak, M566
20130409	Tue	1008-1011	13510	612534	Peter	Weak, M567
20130410	Wed	0801-0802	13419	465132	Peter	Good, M568
20130410	Wed	0852-0856	13985	134265	Peter	Good, M569
20130410	Wed	1256-1301	14650	215346	Peter	Strong, M570
20130411	Thu	0735-0737	9388	561243	Peter	S1, M571
20130411	Thu	0947-0950	13506	164532	Peter	Good, M572
20130411	Thu	1542	10535	564213	Peter	Good and clean, M573
20130412	Fri	0804-0808	10653	356412	Peter	Fair, M574
20130412	Fri	1003-1006	12213	615243	Peter	Good, M575
20130412	Fri	1009-1012	20605	256134	Eddy/AU	Noisy, M576
20130414	Sun	1737	10601	145632	PLdn	Fair, XJT QRM2, new freq, R
20130415	Mon	0634-0635	14870	145632	Ian Wraith	S9 on new freq, R
20130415	Mon	1537-1539	12199	532614	Peter	Strong, M577
20130416	Tue	0803-0805	11462	165423	Peter	Strong and clear, M578
20130416	Tue	0914-0924	12149	1--3--	Peter, Spectre/UK	Weak X06b (error)
20130416	Tue	0924-0928	12149	154263	Peter, Spectre	Alert 2.1: Fair/good, M579
20130416	Tue	0923-0928	13401	154263	Peter	2.2: Parallel TX, M580
20130419	Fri	0628-0635	16320	241563	Peter	Good, M581
20130419	Fri	0953-0956	16103	645321	Peter	Good, M582
20130419	Fri	1001-1003	12215	361245	Peter	Good, M583
20130419	Fri	1310-1319	16115	215346	Peter	Fair, M584
20130422	Mon	0801-0808	13423	421635	Peter	Strong, M585
20130422	Mon	0942-0947	16117	463125	Peter	Fair, M586 (followed by C36 @ 0951)
20130422	Mon	1105-1117	16115	215346	Peter	S1, M587 (final tones only visible)
20130423	Tue	0652-0655	14650	215346	Peter	Alert 1.1: Fair, M588
20130423	Tue	0700-0718	16117	215346	Peter	2.2 Fair and long, G
20130423	Tue	0801	13420	534216	Peter	Shortie with S1 (1 tone set), M589
20130423	Tue	1011-1017	13510	612534	Peter	Fair, M590
20130424	Wed	0727-0728	13369	412356	Peter	Fair, M591
20130424	Wed	0758-0800	13419	465132	Peter	S9+10, M592
20130424	Wed	0855-0856	16116	134265	Peter	S9+10, M593
20130425	Thu	0753-0755	14419	521634	Peter	Poor, M594
20130425	Thu	0940-0944	11411	164532	Peter	Alert 2.1 Fair, M595
20130425	Thu	0946	13506	164532	Peter	2.2 Shortie (1 set), S9+10, M596
20130425	Thu	1538-1540	10535	164532	Peter	S9 with diff. Scale on freq, R
20130426	Fri	0757-0801	9288	356412	Peter	Alert 3 (all S1-2) 1 M597
20130426	Fri	0802-0803	10653	356412	Peter	3.2 M598
20130426	Fri	0821-0836	10653	356412	Peter	3.3 M599
20130426	Fri	0940-0947	9288	356412	Hans, Peter	Alert5.1 Weak/fair NO, S1-2 UK M600
20130426	Fri	0949-0957	10653	356412	Hans	5.2 Fair/strong, M601
20130426	Fri	1000-1006	14863	615243	Hans	Weak, M602
20130426	Fri	1001-1006	9288	356412	Peter	5.3 S1-2, M603
20130426	Fri	1006	15828	256134	Peter	Shortie (only 1 set), good, M604
20130426	Fri	1017	9288	356412	Peter	5.4 Shortie (only 1 set), S1, M605

Date	Day	UTC	Freq	Scale	Monitor	Comments
20130426	Fri	1022-1024	9288	356412	Peter	5.5 S1-2, M606
20130427	Sat	1102-1109	12177	356412	RNGB	I. p., S9, R
20130428	Sun	1740	12105	145632	tiNG	S9, R
20130428	Sun	1806-1808	8171	145623	Fritz	I. p., rare scale, R

Wow, what a stuff! Many thanks to all contributors of the X06 team and the supporters of E2K.

We are sure, that we can report more amazing things on the X06 subject in NL77. Till then as usual “Auf Wiedersehen” and “Good-bye”

Jochen Schäfer, KopfE2Kde and X06 Teamkopf

From PoSW:

X06 6-Tone repeating:- I don't hear too much activity from this station these days, the transmissions logged by the German Branch in the E2K Newsletter show times from during “office hours”. However, on the afternoon of Saturday 16-March “Mazielka” was very busy with strong signals of long duration, a couple of the transmissions were in carrier suppressed mode:-

1514 UTC, 13,415 kHz, S9+ X06, stayed on until 1559 UTC when it suddenly vanished.

1619 UTC, 10,870 kHz, this was in SSB carrier suppressed mode, i.e. the receiver had to be in USB to render it audible although it was obvious it was an “X06” in AM mode.
Close to an SLT Cluster with “C” the strongest. Another transmission of long duration, went on until just after 1702 UTC

1704 UTC, 7,855 kHz, S9, with carrier, soon went QRT, vanished before 1708 UTC.

1712 UTC, 8,100 kHz, peaking S9, still on at 1720 UTC but had gone when checked again at 1726.

1731 UTC, 11,090 kHz, another one in carrier suppressed USB mode, a very long transmission, still on one hour later at 1831 UTC, went off at 1847.

2004 UTC, 9,300 kHz, very strong signal, with carrier, was still on at 2040 UTC but had gone when checked again at 2045.

And that was it. Perhaps there were many more transmissions. I have tuned around on several Saturdays since but nothing like this heard again.

Just two more X06 to report, both on Thursday 21-March:-

0704 UTC, 11,440 kHz, weak signal, didn't have time to investigate further!
1749 UTC, 6,940 kHz, S7 to S9, a fairly long transmission, vanished after 1812 UTC.

Morse Stations

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

4393	2105 - 2114z	09 Apr	CW UNK (In progress - using long zeros)	(Remote Tuner Siberia)	JPL	TUE

10006 40010 00005 00006 50015 00006 0000 . 40 .14 001 .2 0006
40010 00 .01 00612 40010 .0002 00 .12 40011 0 .005 00 .12 60016
00026 00612 50015 00101 00612 40011 AR (2110z) T (Silent)

11150	0231 - 0232z	12 Apr	CW UNK (In progress - cont'd) **OL3E** AR	(Remote Tuner Siberia)	JPL	FRI
12969	0951 - 0952z	15 Apr	CW UNK (In progress) **CQ DE XSV**	(Remote Tuner Siberia)	JPL	MON

(In progress- 0951z) OOO CQ CQ **CQ DE XSV XSV XSV** HR N/W NR 31 BT NW NR 031 U N/W *XSV NR 031 CK 064 15 .72.* BT
T370 5300 6.. G13. 3U5D 3ADN Y. U5DD ..16. U4DT .. UFA. 5U67 .4. U5DD . 22. U4DT ..2400. U5A4 TN6A TTTT7 T44A TTT63 7..
. 39 .. ON/119 BT 10 AAA. . (Cont'd) TAA7 T5U3 TAA7 TA4N 53T7 53T6 TN.A TTT6 66A5 U5A4
7T35 T355 TTTD A.7N 665A T354 6AA5 3T55 ATTTD T.W XSV AR

XSV is Tianjin Radio China according to an Internet search. Found it unusual that this coastal radio station was sending cipher traffic like M89 stations. OOO normally signifies Immediate precedence traffic. Could this have to do with events in North Korea? JPL

14376	1046 - 1052z	12 Apr	CW UNK (In tfc) (V.weak and fading badly) Short 0	(Remote Tuner Siberia)	JPL	FRI

(1046z) 45540 41..4 76470 67416 13 525 33765 47..6 122.. 6123. ...1 431. 07065 0.547 70725 ..672 67.36 6.4.. (Silent - 1048z)

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

March 2013:

5020	2000z	05 Mar	'463' 271 30 = =	77538...	...LG 43589 = =	Strong, Med-fast. Grp12 sent x3	CB	TUE
	2000z	12 Mar	'463' 127 30 = =	80329...	...LG 33795 = =	Strong, fast. Good CW with no errors	BR/DanE2k	TUE
	2000z	14 Mar	'463' 134 30 = =	07024...	...LG 76684 = =	Strong, v.fast. Numerous errors	BR/HFD	THU
	2000z	19 Mar	'463' 568 30 / /	99276...	...LG 23367 / /	Strong, fast. With errors	tiNG	TUE
	2000z	21 Mar	'463' 108 30 = =	88058...	...LG 97864 = =	Strong, fast. Errors grps 06, 11 & 16	BR	THU
	2000z	26 Mar	'463' 798 30 / /	71364...	...LG 01969 / /	V.strong, fast. Grp29 55895 558985	BR	TUE
	2000z	28 Mar	'463' 415 30 = =	27771...	...LG 53160 = =	Good, v.fast. Errors grps11, 22 & 28	BR	THU

5475	1800z	05 Mar	'463' 763 30 = =	54103...	...LG 41266 = =	Strong, med-fast. Multiple errors	BR/CB	TUE
	1800z	12 Mar	'463' 325 30 = =	84534...	...LG 94085 = =	V.Strong, fast. Errors grps01,02, & 10	BR	TUE
	1800z	14 Mar	'463' 981 30 = =	65859...	...LG 10554 = =	Fast increasing to v.fast. Numerous errors	BR/HFD	THU
	1800z	19 Mar	'463' 341 30 = =	19271...	...LG 53952 / /	Good, fast. Multiple errors	tiNG	TUE
	1800z	21 Mar	'463' 771 30 = =	57754...	...LG 65279 = =	Strong, Fast. Severe QRM 'Buzzsaw'	BR	THU
	1800z	26 Mar	'463' 243 30 = =	56152...	...LG 58238 = =	V.Strong, fast. Slowed between grps 14 - 20	BR	TUE
	1800z	28 Mar	'463' 209 30 = =	46735...	...LG 43651 = =	Strong. Extremely fast. With errors	BR	THU
6260	1500z	02 Mar	'463' 559 30 = =	52771...	...LG 53320 = =	Good, fast. Errors on grps 05,13,17	BR/HFD	SAT
	1500z	09 Mar	NRH				BR	SAT
	1500z	16 Mar	'463' 281 30 = =	98517...	...LG 77509 = =	Good, fast. Errors grps21 & 22	BR/RNGB/tiNG	SAT
	1500z	23 Mar	'463' 468 30 = =	99318...	...LG 09782 = =	Good, med-fast. Good CW	RNGB	SAT
	1500z	30 Mar	'579' 579 30 0	. . . .	...LG 88053 / /	Fair, fast. Poor copy. DK used as call	BR	SAT
6510	0700z	03 Mar	'463' 819 30 = =	60253...	...LG 39290 = =	Fair, med-fast. Grp05 04888 04889	BR	SUN
	0700z	10 Mar	'463' 781 30 = =	66240...	...LG 40167 = =	Strong, v.fast. Errors grps14 & 26	BR	SUN
	0700z	17 Mar	'463' 817 30 = =	77386...	...LG 22212 = =	Strong, v.fast. Error grp29. BT at EOM	BR	SUN
	0700z	24 Mar	'463' 183 30 = =	14713...	...LG 054319?..	V.strong, v.fast. Multiple errors	BR	SUN
	0700z	31 Mar	'463' 874 30 = =	07157...	...LG 02626 = =	Strong, med-fast. Good CW. Error grp05	BR/RNGB	SUN

April 2013:

5020	2000z	02 Apr	'463' 714 30 = =	86598...	...LG 98604 = =	Strong, fast. Excellent sending - No errors	BR/tiNG	TUE
	2000z	04 Apr	'463' 863 30 = =	69711...	...LG 12514 = =	Strong, fast. Good CW - No errors	BR	THU
	2000z	09 Apr	'463' 872 30 = =	33275...	...LG 35583 = =	V.strong, v.fast. Multiple errors	BR/tiNG	TUE
	2000z	11 Apr	'463' 157 30 = =	49317...	...LG 5214 = =	Strong, V.fast. Multiple errors	BR	THU
	2000z	16 Apr	'463' 764 30 = =	98196...	...LG 38514 = =	Strong, v.fast. With errors	BR/tiNG	TUE
	2000z	18 Apr	NRH	Rapid series of 'dits' sent at 2010z			BR	THU
	2000z	23 Apr	'463' 124 30 = =	44822...	...LG 91101 = =	Strong, med-fast. Errors grps 22, 23 & DK	BR/JkC	TUE
	2000z	25 Apr	'463' 237 30 = =	87059...	...LG 73584 = =	Strong, v.fast. Error on grp25	BR/JkC	THU
5475	1800z	02 Apr	'463' 346 30 = =	51693...	...LG 94458 = =	V.strong, fast. Errors grps08 & 27	Aco117/BR	TUE
	1800z	04 Apr	'463' 543 30 =	85989...	...LG 72339 = =	Fair, fast. Good CW - No errors	BR	THU
	1800z	09 Apr	'463' 327 30 = =	47705...	...LG 71806 = =	Good, med-fast. Grp12 85628 85638	BR	TUE
	1800z	11 Apr	'463' 289 30 = =	10196...	...LG 01745 = =	Fair, v.fast. Difficult copy. Multiple errors	BR	THU
	1800z	16 Apr	'463' 390 30 = =	47278 ...	...LG 27079 = =	Strong, V.fast. Errors grps 25 & 30	BR/JkC/tiNG	TUE
	1800z	18 Apr	'463' 443 30 = =	54324 ...	...LG 61358 =	Strong, med-fast. No start DK / GC	BR/JkC/tiNG	THU
	1800z	25 Apr	'463' 823 30 = =	97251 ...	...LG 29142 =	Fair (1808z)	JkC	THU
	1800z	30 Apr	'463' 226 30 = =	98673...	...LG 36957 = =	Strong, fast. With errors	BR	TUE
6260	1500z	06 Apr	'463' 306 30 = =	85300...	...LG 15432 = =	Good>Weak, fast. Errors grps01 & 04	BR	SAT
	1500z	13 Apr	Very weak - No useful copy				BR	SAT
	1500z	20 Apr	'463' 736 30 = =	76175...	...LG 62253 = =	Fair, fast. Grp12 883636 88363	BR	SAT
	1500z	27 Apr	'463' 239 30 = =	40388...			FN	SAT
6510	0700z	07 Apr	'463' 273 30 = =	53343...	...LG 12635 = =	Good, fast. IT sent before grps02,08 & 13	BR	SUN
	0700z	14 Apr	'463' 783 30 = =	46487...	...LG 79443 = =	Good, v.fast. Multiple errors.	BR	SUN
	0700z	21 Apr	'463' 841 30 = =	62294...	...LG 88909 = =	Good, fast. Excellent CW. No errors	BR	SUN
	0700z	28 Apr	Very Weak - No useful copy					

M01a (formerly end of month TXs, now random)

A rare catch from Fritz (FN) who managed to catch this one in action.

4759	1944z	01 Apr	[...672 333 42622 04001 672 333 42139 repeated]	FN	MON

M01b

Guy (GD) reports much better signals now & we have a large number of logs this time round confirming this. Many thanks to all.

3510//4605	1932z	14 Mar	'201' 392 30 = 07143...	HFD	THU
	1832z	18 Apr	'201' 148 32 = = 23276 ... 41757 (1849z) Fair (3510kHz, barely audible)	JkC/tiNG	THU
3520//4585	2110z	01 Mar	'582' 527 30 = 52973...	HFD	FRI
3625//4440	2002z	01 Mar	'153' 527 30 = 52973...	HFD	FRI
	2002z	15 Mar	'153' 392 30 = 07143...	HFD	FRI
3715//4570	2042z	14 Mar	'477' 392 30 = 07143...	HFD	THU
	1942z	18 Apr	'477' 148 32 = = 23276 ... 41757 (2000z) Fair Rpt of 1832z 4605kHz.	JkC	THU
	1942z	25 Apr	'477' 148 32 = = 23276 ... (1959z) Weak // Fair	JkC	THU
4440	2002z	15 Mar	'153' 392 30 =	GD	FRI
	1902z	26 Apr	'153' 148 32 = = 23276 ... 41757 (1919z) Fair Rpt of 25Apr 1942z 4570kHz (// Nil heard 3625kHz)	JkC	THU
4455	2015z	18 Mar	'771' 392 30 = = 07143… … 16486 = = 2032z (same msg as 1910z) (2032z)	HFD/tiNG	MON
	2015z	25 Mar	'771' 392 30 = = 07143 etc	RNGB	MON
	1917z	01 Apr	'771' 392 30 = = 07143 51772 47267..."; ending too weak. (1932z)	DanE2k	MON
	1915z	15 Apr	'771' 156 32 = = 23276 67452 . . . [faded away completely!!!] (via GT Vienna)	tiNG	MON

4570	2042z	14 Mar	'477' 392 30 =	GD	THU
	2042z	21 Mar	'477' 392 30 =	GD	THU
4586	2110z	15 Mar	'582' 392 30 =	GD	FRI
4590	1910z	04 Mar	'420' (weak, 3535 not heard)	HFD	MON
	1910z	18 Mar	'420' 392 30 = = 07143... ...16486 = = [See transcript below) (1926z)	tiNG	MON
	1912z	25 Mar	'420' 392 30 = = 07143 51772 48267 55456 etc (**harmonic on 9180 was louder** !)	RNGB	MON
	1810z	01 Apr	"20 4" r ? Uncertain] just perceivable	DanE2k	Mon
4605	1932z	14 Mar	'201' 392 30 =	GD	THU
	1932z	21 Mar	'201' 392 30 = = Sending started as S21 but then changed to M01b	GD	THU
5810	1515z	26 Apr	'158' 632 30 = = 80797 ... 92826 (1529z) Weak Rpt of 25 Apr 1505z 5941kHz	JkC	FRI
5940	1605z	21 Mar	'159' 142 30 =	GD	THU
	1506z	18 Apr	'159' 632 30 = = 80797 ... 92826 = 632 30 000 (1520z) Weak	JkC	THU
5941	1505z	25 Apr	'159' 632 30 = = 80797 ... 92826 = 632 30 000 (1520z) Weak	JkC	THU
9111	1918z	22 Apr	' ???' 148 32 = = In progress. ends: 41757 == 148 148 32 32 000	FN	MON

M01c

Another rare log. Ary (AB) reports this series of transmissions of this difficult to catch variation;

4065	1847 - 1850z	12 Apr	M01c sequence in progress	AB	FRI

1847z 02 02 02
1848z 02 02 02
1849z 02 06
1850z 111 999 182 10 =

92337 62508 32613 03687 75802 84170 39676 61362 76893 10377 =

68260 39676 = 111 = 61362 333 111 000

Ary also noted similar traffic on the following;

4136	2014z	23 Apr
4204	2036z	23 Apr

Excellent catch Ary. Does this indicate increased activity from the station, or were our monitors fortunate in being in the right place at the right time?

As far as is known, M01a & M01c have no time or frequency schedules.

M01b 4590kHz 1910z 18 Mar13

420 (R3m) 392 392 30 30 = =

07143 51772 48267 55456 95859
24719 06946 17872 96884 92232
00588 73462 56106 63104 80354
11573 51007 67148 07592 20769
90373 11857 19821 98921 23597
29100 21407 31629 91842 16486
= = 392 392 30 30 000

Courtesy tiNG

M01b 4605kHz 1832z 18 Apr13

201 (R) 148 148 32 32 ==

23276 67452 69914 42414 02622
59556 90454 46604 43537 12541
06547 86846 52884 31563 30373
57467 86302 72452 71278 12314
14176 67719 55685 22973 29591
47265 45216 85317 41892 28190
97446 41757 = =
148 148 32 32 000

Courtesy JkC

M03 6977kHz 1535z 16 Apr13

795/34 ==

07428 98665 14369 86773 07135
12789 38895 96167 20485 47559
56228 69787 98770 96882 18684
52368 15060 91362 96854 80440
65179 72983 59159 85982 85596
11266 71116 81210 31699 28870
72504 44971 89429 80242
= = 0 0 0

Courtesy JkC

M03 III ICW, some CW

6977	1535z	12 Mar	797/35 = 06283 52350 84231 36126.....42523	RNGB	TUE
	1535z	16 Mar	798/00 (1538z)	tiNG	SAT
	1535z	02 Apr	798/00 = 0 0 0	FN	TUE
	1535z	06 Apr	693/00 (1538z) Fair/Strong	Hans	SAT
	1535z	09 Apr	798/00 = = 000 (1538z)	tiNG	TUE
	1535z	13 Apr	798/00 = = 000 (1538z)	tiNG	SAT
	1535z	16 Apr	795/34 = = 07428 98665 . . . 89429 80242 (1552z) / (via Global Tuners Vienna)	JkC/tiNG	TUE
	1535z	23 Apr	798/00 = = 000 (1538z) Fair	JkC/Spectre	TUE
	1535z	27 Apr	798/00 = =	FN	SAT
9125	1320z	03 Mar	437/00 (very weak signal here in France)	CB	SUN

9150	1115z	05 Mar	279/33 = 24177 84228 28691 59064.....LG 25532 (very weak signal in France)	CB/RNGB	TUE
	1320z	10 Mar	437/00 (1323z)	tiNG	SUN
	1115z	17 Mar	276/30 = 47971 70832 89307 85381.....66051	RNGB	SUN
	1320z	17 Mar	437/00	RNGB	SUN
	1320z	24 Mar	435/33 = 62749 61192 45405 21532.....28156	DanE2k/RNGB	SUN
	1320z	31 Mar	730/34 = 88926 36922...	FN	SUN
	1320z	04 Apr	438/36 = 67896 62237 51644.....70482	RNGB	THU
	1115z	10 Apr	650/00 (1118z) Strong	Hans	WED
	1320z	14 Apr	437/00 (Via WebSDR Twente)	DanE2k	SUN
	1320z	18 Apr	437/00 Fair	JkC	THU
	1115z	23 Apr	272/00 = = 000 (1118z) Fair	Spectre	TUE
	1320z	25 Apr	437/00 = = (1323z) Strong	JkC	THU
	1320z	28 Apr	437/00 = =	FN/JkC	SUN
13911	1420z	24 Mar	879/00 = = (1423z)	RNGB/tiNG	SUN
	1420z	26 Apr	879/00 = = (1423z) Weak	JkC	FRI
	1420z	28 Apr	879/00 = =	FN/JkC	SUN

M08a XVIII ICW / CW, some MCW

Anon in USA writes; *Following my last post on the subject I thought M08a had finally disappeared for good but after a week of absence I found the following. It also seems that the primary schedules may not be dead but have possibly changed frequencies.*

Anyone else care to search around, I'm sure I'm not finding them all.

Thanks Anon - **Could our members in the USA please look out for these. We can rarely hear them here in Europe.**

March 2012: GT = Global Tuners (Online remotely controlled receivers)

7554	2000z	18 Mar	Found in progress	Anon	MON
	2000z	21 Mar	[----- 31011 35032]	Anon	THU
	2000z	22 Mar	[----- 61762 74101]	Anon	THU
8135	2200z	15 Mar	(In progress) [----- 18001 32322] (New frequency for this time slot or mistake by operator?)	Anon	FRI
	2300z	15 Mar	[05661 18001 32322]	Anon	FRI
	2300z	19 Mar	[----- 03202 06521]	Anon	TUE
	2300z	29 Mar	[01171 12721 27731]	Anon	FRI

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.

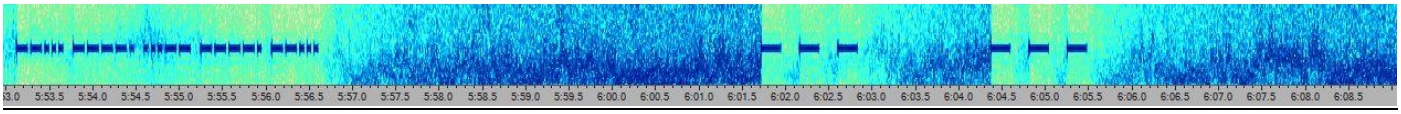
March 2013:

5763/ 5163/---	2200/20/40z	06 Mar	714 000	FN	WED
	2200/20/40z	20 Mar	714 1 (8588 79) 73520...	DanE2k/FN/HFD	WED
	2200/20/40z	27 Mar	714 000	CH10UK/FN	WED
5792/6992/---	0530/0550/0610z	04 Mar	796 000	FN	MON
	0530/0550/0610z	11 Mar	796 000	FN/HFD	MON
	0430z 01/04 [796 000] FN MON				
6784/7684/---	0730/0750/0810z	07 Mar	761 000	FN/HFD	THU
	0730/0750/0810z	14 Mar	761 000	FN/GD	THU
	0730/0750/0810z	21 Mar	761 000 /(0732z) Good	FN/Wix	THU
8047/6802/5788	1700/20/40z	06 Mar	463 1 (6844 54) 58912...	FN/HFD	WED
	1700/20/40z	13 Mar	463 1 (6609 77) 06128...	FN	WED
	1700/20/40z	20 Mar	463 1 (2757 70) 83135...	DanE2k	WED
	1700/20/40z	27 Mar	463 1 (1029 84) 69510...	FN/RNGB	WED
8111	0634z	21 Mar	902 36441 000 (0637z) Weak QSB	Wix	THU
8158/9258/---	0600/20/40z	16 Mar	126 000	FN	SAT
	0600/20/40z	23 Mar	126 1 (8588 79) 73520...	FN	SAT
9176/7931/6904	1700/20/40z	04 Mar	257 1 (8509 72) 48124...	FN/HFD	MON
	1800/20/40z	04 Mar	257 1 (4191 64) 60408...	FN	MON
	1900/20/40z	04 Mar	257 1 (5599 67) 51827..	FN/HFD	MON
	1700/20/40z	07 Mar	257 1 (7889 99) 78221...	FN	THU
	1900/20/40z	07 Mar	257 1 (3957 52) 43523...	ATC/FN	THU
	1700/20/40z	11 Mar	257 1 (7451 71) 70250...	FN	MON
	1800/20/40z	11 Mar	257 1 (8611 62) 91478...	FN	MON
	1900/20/40z	11 Mar	257 1 (4627 91) 27823...	FN	MON
	1700/20/40z	14 Mar	257 1 (1623 89) 47917...	FN	THU
	1900/20/40z	14 Mar	257 1 (2910 60) 31382...	FN	THU

	1700/20/40z	18 Mar	257 1 (6159 80)	43249...	DanE2k/FN	MON
	1800/20/40z	18 Mar	257 1 (8318 62)	70106...	DanE2k/FN	MON
	1900/20/40z	18 Mar	257 1 (3081 81)	10008...	DanE2k/FN	MON
	1700/20/40z	21 Mar	257 1 (3345 88)	56426...	FN	THU
	1900/20/40z	21 Mar	257 1 (6828 63)	12766... Weak signal	FN	THU
	1700/20/40z	25 Mar	257 1 (6440 77)	78906...	FN	MON
	1800/20/40z	25 Mar	257 1 (7922 61)	22183...	FN	MON
	1900/20/40z	25 Mar	257 1 (4134 70)	18633...	FN	MON
	1700/20/40z	28 Mar	257 1 (4575 88)	67338...	FN	THU
	1900/20/40z	28 Mar	257 1 (1106 67)	08320...	FN	THU
	1800/20/40z	08 Mar	257 1 (1989 65)	41909...	FN	MON
	1900/20/40z	08 Mar	257 1 (1283 85)	29340...	FN	MON
10343/9264/8116	1800/20/40z	01 Mar	124 1		HFD	FRI
	1830/1850/1910z	05 Mar	124 1 (5572 69)	06974...	FN	TUE
	1700/20/40z	07 Mar	124 1 (5280 77)	40036...	FN/HFD	THU
	1800/20/40z	07 Mar	124 1 (2294 95)	40940...	FN	THU
	1800/20/40z	08 Mar	124 1 (5740 71)	82706...	FN	FRI
	1830/1850/1910z	12 Mar	124 1 (1112 54)	45108...	DanE2k/HFD	TUE
	1700/20/40z	14 Mar	124 1 (6086 70)	47891...	FN	THU
	1800/20/40z	14 Mar	124 1 (2285 100)	24082...	FN	THU
	1800/20/40z	15 Mar	124 1 (5750 96)	18073...	FN	FRI
	1700/20/40z	21 Mar	124 1 (1399 71)	82579...	FN	THU
10343/9264/8116	1800/20/40z	21 Mar	124 1 (5891 98)	17375...	FN	THU
	1800/20/40z	22 Mar	124 1 (4100 83)	06974...	FN	FRI
	1830/1850/1910z	26 Mar	124 1 (8245 62)	37816...	FN	TUE
	1700/20/40z	28 Mar	124 1 (2325 74)	53842...	FN	THU
	1800/20/40z	28 Mar	124 1 (2683 90)	21858...	FN	THU
10968/10168/9128	1500/20/40z	06 Mar	543 1 (5653 191)	47107... Repeat of 04 Mar 1300z	FN	WED
	1500/20/40z	13 Mar	543 1 (5157 259)	57582... Repeat of 11 Mar 1300z	FN/HFD	WED
	1500/20/40z	27 Mar	543 1 (6781 121)	06385... Repeat of 25 Mar 1300z	FN/RNGB	WED
11435/10598/9327	1830/1850/1910z	06 Mar	938 1 (5306 66)	55804...	FN	WED
	1830/1850/1910z	13 Mar	938 1 (7275 70)	01823...	FN	WED
	1830/1850/1910z	20 Mar	9381 (3302 69)	47991... (1837z)	CH10/DanE2k/HFD	WED
	1830/1850/1910z	27 Mar	938 1 (7965 63)	58463... Strong QRM OTHR on 11435kHz	FN	WED
11524/10424/9324	1300/20/40z	04 Mar	543 1 (5653 191)	47107...	FN	MON
	1300/20/40z	11 Mar	543 1 (5157 259)	57582... QRM from digital stn on 11524kHz	FN/HFD	MON
	1300/20/40z	18 Mar	543 1		DanE2k	MON
	1300/20/40z	25 Mar	543 1 (6781 121)	06385... QRM from digital stn on 11524kHz	FN	MON
12162/11566/10711	1600/20/40z	04 Mar	546 1 (8845 87)	87610...	FN/HFD	MON
	1600/20/40z	11 Mar	546 1 (2475 84)	83031...	FN	MON
	1600/20/40z	18 Mar	546 1 (6068 83)	63019...	FN	MON
	1600/20/40z	25 Mar	546 1 (4872 83)	13705...	FN	MON
14769/16269 /18169	1010/30/50z	07 Mar	721 1 (2060 119)	81081...	FN/HFD	THU
	1010/30/50z	10 Mar	721 1 (2060 119)	81081... Repeat of 07 Mar 1010z	FN	SUN
	1010/30/50z	14 Mar	721 000		FN	THU
	1010/30/50z	17 Mar	721 000		FN	SUN
	1010/30/40z	21 Mar	721 1 (1176 271)	58052...	FN	THU
	1010/30/50z	28 Mar	721 1 (7510 153)	76567...	FN	THU
14879/13479/11579	1830/1850/1910z	10 Mar	845 1 (9259 123)	43064... NEW ID	BR/FN/HFD	SUN
	1830/1850/1910z	13 Mar	845 1 (5502 177)	33274...	FN	WED
	1830/1850/1910z	17 Mar	845 1 (5502 177)	33274... Repeat of 13 Mar 1830z	FN	SUN
	1830/1850/1910z	24 Mar	845 1 (4054 89)	87931... Repeat of 20 Mar 1830z	FN	SUN
	1830/1850/1910z	27 Mar	845 1 (5834 193)	62854...	FN	WED

These additional logs & Screenshot from PLdn;

7930	1920z	28 Mar	[257 1 msg txt 0 0 0 0 0 0] 1926z Very strong	PLdn	THU
6904	1940z	28 Mar	[257 1 msg txt 0 0 0 0 0 0] 1946z Very strong	PLdn	THU



Thu 28 Mar 2013 M12 Msg ending on 7930kHz from 1920z transmission *Courtesy PLdn*

April 2013:

5792/6992/---	0430/0450/0510z	01 Apr	796 000	FN	MON
	0430/0450/0510z	15 Apr	796 000	FN	MON
	0430/0450/0510z	22 Apr	796 000	FN	MON

6793/5893/---	2100/20/40z	03 Apr	785 000	FN	WED
	2100/20/40z	10 Apr	785 000	FN	WED
	2100/20/40z	17 Apr	785 000	FN/JkC/tiNG	WED
	2100/20/40z	24 Apr	785 1 (9157 75) 34953 ... 52872 (2107z)	FN/JkC	WED
7484/8084/---	0630/0650/0710z	04 Apr	402 000	FN	THU
	0630/0650/0710z	11 Apr	402 000	FN	THU
	0630/0650/0710z	18 Apr	402 000	FN	THU
8047/6802/5788	1700/20/40z	03 Apr	463 1 (6708 86) 64953...	FN	WED
	1700/20/40z	10 Apr	463 1 (6390 91) 33677...	FN	WED
	1700/20/40z	17 Apr	463 1 (4817 94) 78432 ...	FN/JkC	WED
	1700/20/40z	24 Apr	463 1 (6449 91) 26527...	FN/JkC	WED
9176/7931/6904	1700/20/40z	01 Apr	257 1 (8380 70) 91408...	DanE2k/FN	MON
	1800/20/40z	01 Apr	257 1 (6922 61) 28472...	DanE2k/FN	MON
	1900/20/40z	01 Apr	257 1 (7554 85) 73529...	Aco117/DanE2k/FN	MON
	1700/20/40z	04 Apr	257 1 (8030 89) 39374...	FN	THU
	1900/20/40z	04 Apr	257 1 (8821 62) 49282...	FN	THU
	1700/20/40z	11 Apr	257 1 (3796 96) 23707...	FN	THU
	1900/20/40z	11 Apr	257 1 (5264 64) 74024...	FN	THU
	1700/20/40z	15 Apr	257 1 (8545 79) 67555...	FN/JkC	MON
	1800/20/40z	15 Apr	257 1 (1341 61) 53980...	FN/JkC	MON
	1900/20/40z	15 Apr	257 1 (7578 92) 26260...	FN	MON
	1700/20/40z	18 Apr	257 1 (8790 95) 06583 ... 68255	FN/JkC	THU
9176/7931/6904	1900/20/40z	18 Apr	257 1 (5180 66) 28165...	FN	THU
	1700/20/40z	22 Apr	257 1 (8373 80) 54524...	FN	MON
	1800/20/40z	22 Apr	257 1 (4603 55) 47046...	FN/JkC	MON
	1900/20/40z	22 Apr	257 1 (1710 72) 46680...	DanE2k/FN	MON
	1700/20/40z	25 Apr	257 1 (3157 91) 99520...	FN/JkC	THU
	1900/20/40z	25 Apr	257 1 (6499 53) 28060...	FN	THU
10343/9264/8116	1830/1850/1910z	02 Apr	124 1 (4046 64) 29471...	FN	TUE
	1700/20/40z	04 Apr	124 1 (4564 71) 77743...	FN	THU
	1800/20/40z	04 Apr	124 1 (2726 91) 64773...	FN	THU
	1800/20/40z	05 Apr	124 1 (6824 99) 19234...	FN	FRI
	1830/1850/1910z	09 Apr	124 1 (6073 66) 53389...	FN	TUE
	1700/20/40z	11 Apr	124 1 (4600 72) 69451...	FN	THU
	1800/20/40z	11 Apr	124 1 (4987 98) 93905...	FN	THU
	1800/20/40z	12 Apr	124 1 (6568 82) 86822...	FN	FRI
	1830/1850/1910z	16 Apr	124 1 (8959 66) 09644...	FN/JkC	TUE
	1700/20/40z	18 Apr	124 1 (6298 80) 69413 ... 36448	FN/JkC	THU
	1800/20/40z	18 Apr	124 1 (7032 97) 04650...	FN	THU
	1800/20/40z	19 Apr	124 1 (7917 76) 26736...	FN	FRI
	1830/1850/1910z	23 Apr	124 1 (8109 53) 14744...	FN/JkC	TUE
	1700/20/40z	25 Apr	124 1 (6297 77) 95704...	FN/JkC	THU
	1800/20/40z	25 Apr	124 1 (7331 70) 76217...	FN/JkC	THU
	1800/20/40z	26 Apr	124 1 (8813 76) 50746 ... 50409	FN/JkC	FRI
11435/10598/9327	1830/1850/1910z	03 Apr	938 1 (4852 67) 30486...	FN	WED
	1830/1850/1910z	10 Apr	938 1 (6836 70) 11136...	FN	WED
	1850/1850/1910z	17 Apr	938 1 (5079 53) 72046 ...	FN/JkC	WED
	1830/1850/1910z	24 Apr	938 1 (7546 54) 39295...	FN/JkC	WED
11469/10469/9169	2110/30/50z	03 Apr	441 1 (3783 71) 65214...	FN	WED
	2110/30/50z	10 Apr	441 1 (8475 125) 17617	FN	WED
	2110/30/50z	13 Apr	441 1 (8475 125) 17617... Repeat of 10 Apr 2110z	FN	SAT
	2110/30/50z	17 Apr	441 000	FN/JkC/tiNG	WED
	2110/30/50z	20 Apr	441 000	FN	SAT
(11469)	2110z	24 Apr	441 1 (5585 15) .... Very weak signal (Only 2110z monitored)	FN	WED
	2110/30/50z	27 Apr	441 1 (6425 83) 38650...	FN	SAT
12162/11566/10711	1600/20/40z	01 Apr	546 1 (6352 75) 64652...	FN	MON
	1600/20/40z	15 Apr	546 1 (4715 99) 61352...	FN	MON
	1600/20/40z	22 Apr	546 1 (2685 80) 32564... Strong QRM BC on 12162kHz	FN	MON
13918/12218/10748	1500/20/40z	03 Apr	991 1 (5703 181) 98522... Repeat of 01Apr 1300z	FN	WED
	1500/20/40z	10 Apr	991 1 (826 203) 43039...	FN	WED
	1500/20/40z	17 Apr	991 1 (2272 191) 14541 ... Repeat of 15 Apr 1300z	FN/JkC	WED
	Jim (JkC) reports that in the1500z sched; *Sent GR 29, 30, and 189 twice, resulting in GR194. Corrected in 1520z and 1540z skeds*				
	1500/20/40z	24 Apr	991 1 (6841 73) 93137... Repeat of 22 Apr 1300z	FN	WED
14879/13479/11579	1830/1850/1910z	03 Apr	845 1 (9916 103) 17933...	FN	WED
	1830/1850/1910z	07 Apr	845 1 (9916 103) 17933... Repeat of 03 Apr 1830z	FN	SUN
	1830/1850/1910z	10 Apr	845 1 (3074 193) 59662...	FN	WED
	1830/1850/1910z	14 Apr	845 1 (3074 193) 59662.. Repeat of 10Apr 1830z	FN	SUN
	1830/1850/1910z	17 Apr	845 000	FN/JkC/tiNG	WED
	1830/1850/1910z	21 Apr	845 000	FN	SUN
	1830/1850/1910z	24 Apr	845 1 (8063 99) 05060...	FN	WED
	1830/1850/1910z	28 Apr	845 1 (8063 99) 05060... Repeat of 24 Apr 1830z	FN/JkC	SUN
14964/13972/12164	1300/20/40z	01 Apr	991 1 (5703 181) 98522...	FN	MON
	1300/20/40z	15 Apr	991 1 (2272 191) 14541... Some interruptions to 1300 & 1320z msgs	FN/JkC	MON

	1300/20/40z	22 Apr	991 1 (6841 73) 93137...	FN	MON
	1300/20/40z	29 Apr	991 1 (661 297) 05066 ... 89583 000 (1321z) Fair	JkC	MON
19397	0732z (IP)	03 Apr	336 000 [Caught ending only - Not properly measured]	PLdn	WED

M12a (two message variant)
No reports

M14 IA MCW / ICW / MCWCC, short 0

4588	1920z	10 Apr	218 00000 (MCW) ***See HFD's note below**	HFD	WED
5380	1833 - 1845z	12 Apr	818 (629 108) = 57215 53723 67909... V.Strong (Remote Tuner Siberia)	JPL	FRI
5410	1830z	27 Apr	818 (403 116) = 47365...	FN	SAT
5463	1920z	13 Mar	537 (110 15) = 28391 37237 39103 47234.....27453	RNGB	WED
	1920z	27 Mar	537 (110 15) = 28391...	HFD	WED
	1920z	24 Apr	537 (110 15) = 28391...	Jan	WED
5945	1820z	12 Mar	346 (BC QRM)	HFD	TUE
	1822z	23 Apr	346 (106 15) = 53627 ... 12839 = (1827z) Fair	JkC	TUE
5947	1820z	09 Apr	346 (106 15) = 53627 13285.....12839 (Repeat from last month)	RNGB/tiNG	TUE
8120/7395	0700/0800z	12 Mar	362 00000	HFD/RNGB	TUE
	0700/0800z	09 Apr	362 00000 (0703z)	Hans/RNGB	TUE
9125/8193	1700/1800z	01 Mar	269 00000	RNGB	FRI

M14 5947kHz 1820z 09 Apr13

346 (R3m) 106 106 15 15 = =

53627 13285 09472 37456 29124
37285 93753 84930 17326 21333
36284 93746 11116 22227 12839
= = 106 106 15 15 00000

Courtesy tiNG

M14 5463kHz 1920z 24 Apr13

537 (R3m) 110 110 15 15 = =

28391 37237 39103 47234 17436
48014 27463 17364 22236 47194
19283 27361 27394 12634 27453
= = 110 110 15 15 00000

Courtesy Jan

*Hans-Friedrich (HFD) writes on the M14 anomaly heard on 10 Apr; *On the 2nd Wednesday of the month there are two transmissions at 1920z:*

E06 at 1920/20z call sign was 154 in 2012, (last heard in November 2012) - the Mar/Apr/Sep/Oct frequencies last year were 4615/3704

M14 at 1920z on the 2nd & 4th Wednesday, sked first heard in October 2005 - (different call sign for the three periods) MCW modulation the Mar/Apr/Sep/Oct frequency is 5464 and c/s is 537(last heard on March 27th, 2013).

*On Wed April 10 I tried to log the E06. In January/February the sked was logged as 3526/3729 with call sign **218** (2012: 3622/3812 with call sign 154). Therefore I observed the frequency range 100 kHz below 4.615kHz. And what did I hear? A strong M14 with "**218** 0000" on 4588 kHz in MCW! Unfortunately, I couldn't find the 2nd frequency at 2020. Should be in the 80m amateur radio band, but nothing found.*

Operator error or change of the sked from E06 to M14? [Only time will tell Hans-Friedrich - Thanks for the detailed report]

M14a (two message variant)

10463	1000 - 1010z	27 Mar	980 (425 36) = = 21 .98....65155 = = (Remote Tuner Siberia)	JPL	WED
	1010 - 1020z	27 Mar	980 (673 51) = = 27374.... (Strong but distorted with remote lag)	JPL	WED

M18 IC Time strings, UTC+4

Note: M18 was previously on 3803, but N/H on this freq lately. Possibly freq change from 3803.

4073	2126z	04 Mar	[0126... etc] (In Progress - sending Time strings) (Remote Tuner Finland)	JPL	MON
	1646z	05 Mar	[2050... etc] (In Progress - sending Time strings) (Remote Tuner Russia)	JPL	TUE
	2036z	05 Mar	[0030 0030 0030 0031 etc]	AB	TUE
	1740z	06 Mar	[0050...etc] (In Progress - sending Time strings) (Remote Tuner Poland)	JPL	WED
	2052z	07 Mar	[0400...etc] (In Progress - sending Time strings) (Remote Tuner Finland)	JPL	THU
	1820z	08 Mar	[2220...etc] (In Progress - sending Time strings) (Remote Tuner Finland)	JPL	FRI
	1520z	12 Mar	[1919...etc] (In Progress - sending Time strings) (Remote Tuner Finland)	JPL	TUE
	1802z	13 Mar	[0102...etc] (In Progress - sending Time strings) (Remote Tuner Sweden)	JPL	WED
	1958z	22 Mar	[0204 0204 0204 ... etc	FN	FRI
	2246z	22 Mar	[0254...etc] (In Progress - sending Time strings) (Remote Tuner Siberia)	JPL	FRI
	0155z	23 Mar	[0156...etc] (In Progress - sending Time strings) (Remote Tuner Siberia)	JPL	SAT
	1821z	30 Mar	[0037 0038 0038 0038 etc.]	AB	SAT
	1339z	31 Mar	[2046...etc] (In Progress - sending Time strings - Long zero) (Remote Tuner Siberia)	JPL	SUN

4073	1927z	03 Apr	[0027 0027 0027 ...] Very weak signal	FN	THU
	1840z	05 Apr	[0144 0144 0144 ...]	FN	FRI
	0558z	13 Apr	[0958...etc] (In Progress - sending Time strings - Long zero) (Remote Tuner Siberia)	JPL	SAT
	2039z	18 Apr	[0039 0039 0040 0040 0040...etc] M18 CW Russian Mil. Time marker	AB	THU
	2012z	25 Apr	[0023 0023 0024 0024 0024 etc]	AB	THU
8145	0531z	13 Apr	[0931...etc] (In Progress - sending Time strings - Long zero) (Remote Tuner Siberia)	JPL	SAT

M23 O ICW

7668	1703z (IP)	27 Mar	'747' (R..) In progress - ended at 1706z		RNGB	WED
5914 // 7668	1754z	27 Mar	'747' (R..) Expect end at 1804z		RNGB	WED
5914 // 7668	**1654 - 1706z**	**Daily**	**'747' (R12)**	**28 Mar - 04 Apr**	**BR/JPL/RNGB**	
	1754 - 1806z	**Daily**	**'747' (R12)**	**28 Mar - 04 Apr**	**BR/RNGB**	

An hourly 'Dit' was noted on 7668 at H+54, feature also heard with some of the previous M23 transmissions that seems to indicate an active freq. Additionally, a 'double-dit' was also sent at H+37.

5914 // 7668	**NRH**	**Daily**	**No call-up but hourly 'dits' & 'double-dits' present**	**05 - 30 Apr**	**BR**

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
5410	1830z	13 Apr	??? (629 150) = Call missed. Very fast Morse.	GD	SAT
	1930z	18 Apr	818 (266 115) = 92583...	FN	THU
6792	1630z	07 Mar	910 (347 16) = 26351...	FN	THU
8116	1815z	13 Apr	818 (629 108) = = 23398...	FN	SAT
	1820z (IP)	22 Apr	??? (378 152) = = IP ending, .. 18241 = = 378 152 00000	JkC	MON

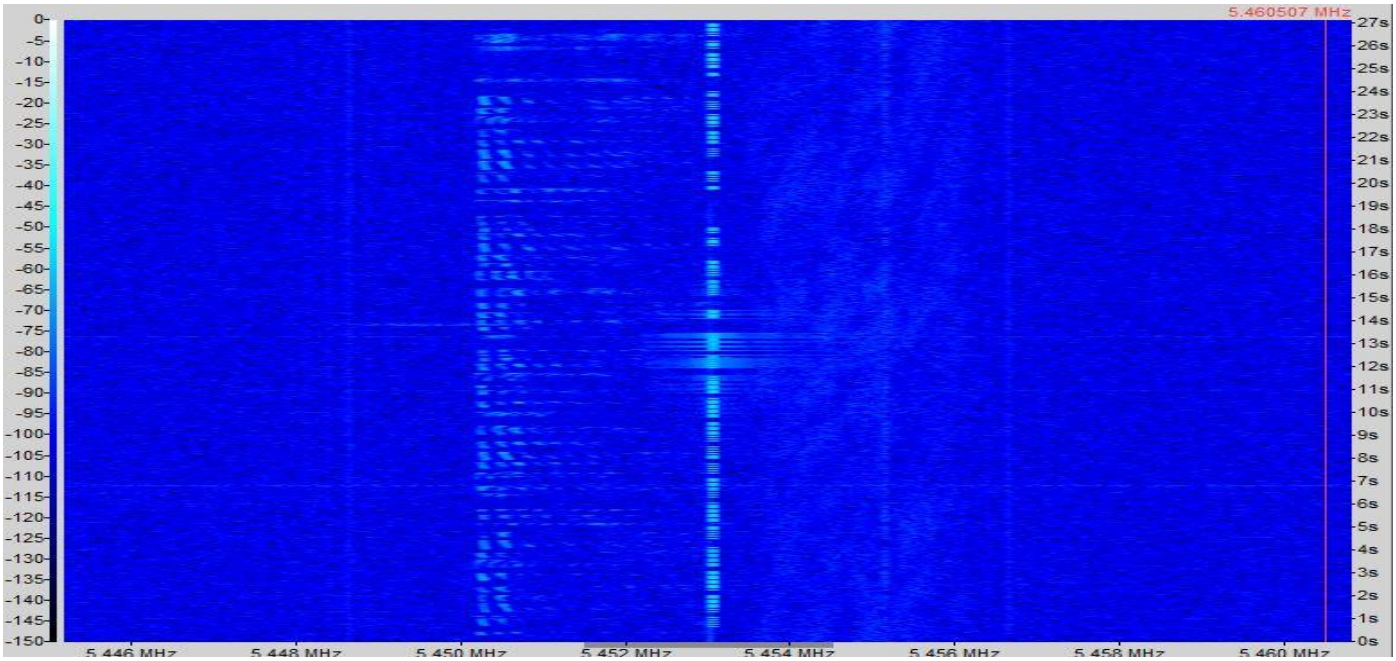
M24a as M24 with 2nd addressee hand keyed, rarely intercepted.
No reports

M45/2 XIV (555 sched for Mar / Apr) MCW, slow, hand, paired gps Will change to M45/3 for May - Aug on 5074//5474 at 18.02z call '074'

4555	1802z	12 Mar	'555' 231 30 =	GD	TUE
4555//4955	1802 - 1818z	14 Mar	'555' 231 30 = = 92524... (*Remote Tuner, Germany)	HFD/JPL*	THU
4555//4955	1802z	09 Apr	'555' 231 30 = = 92524 36375 …49860 82183 (1817z)	tiNG	TUE
	1802z	23 Apr	'555' 867 33 = = 55476 ... 25937 Fair (1819z)	JkC	TUE

M51 XlX

2648	0430z (IP)	20 Mar	5 ltr grps Continuous msgs dated 1985	BR	WED
3748.5	1630 - 2230z + (IP)	22 Mar	5 ltr grps Continuous 100 grp msgs dated 1985 (Still going at 2230z....)	BR	FRI
	1330 - 2330z + (IP)	23 Mar	5 ltr grps Continuous 100 grp msgs dated 1985 (... & the following day..)	BR	SAT
	0600z (IP)	24 Mar	5 ltr grps Continuous 100 grp msgs dated 1985 (...until finally gone by 0630z)	BR	SUN
3881//6825	1216 - 1221z (IP)	14 Mar	5 ltr grps Continuous 100 grp msgs dated 1985 Ended abruptly mid-grp at 2021z	BR	THU
	1301 - 1500z +	19 Mar	5 ltr grps Continuous 100 grp msgs dated 1985 Immediately following M51a B/cast	BR	TUE
5444	1945 - 2350z + (IP)	25 Mar	5 ltr grps Continuous 100 grp msgs dated 1985	BR	MON
5453	1950 - 2013z (IP)	12 Mar	5 ltr grps Continuous 100 grp msgs dated 1985 Ended abruptly mid-grp at 2013z	BR	TUE
	2045z (IP)	26 Mar	[msg txt ends BT NK 77 M 26 21:45:16 1985 BT] V.strong, Adjacent to RAF Volmet	PLdn	TUE



Tue 26 Mar 2013 2045z M51 in full flow sending 5 - ltr grps on 5453kHz (Note; RAF Volmet on 5450kHz USB) *Courtesy PLdn*

These additional logs of M51 from our friend Spectre - Thanks Spectre!

7535kHz	1713z	20 Apr	[NR 54 A 16 19:13:57 1985 BT MMPCI ... IFZZC BT]	1720z Fair QRN2 QSB2	Spectre	SAT
	1720z	20 Apr	[NR 55 A 16 19:20:05 1985 BT JJOON ... GMIXO BT]	1726z Fair QRN2 QSB2	Spectre	SAT
	1726z	20 Apr	[NR 56 A 16 19:26:20 1985 BT LEEBT ... NYHMI BT]	1732z Fair QRN2 QSB2	Spectre	SAT
	1732z	20 Apr	[NR 57 A 16 19:32:33 1985 BT QZVTT ... JMNCF BT]	1738z Fair QRN2 QSB2	Spectre	SAT
	1738z	20 Apr	[NR 58 A 16 19:38:44 1985 BT VJSXC ... IASER BT]	1744z Fair QRN2 QSB2	Spectre	SAT
	1744z	20 Apr	[NR 59 A 16 19:44:53 1985 BT SFGJN ... HKILG BT]	1751z Fair QRN2 QSB2	Spectre	SAT
	1751z	20 Apr	[NR 60 A 16 19:51:08 1985 BT UCNZJ ... HOQGD BT]	1757z Fair QRN2 QSB2	Spectre	SAT
	1757z	20 Apr	[NR 61 A 16 19:57:25 1985 BT AKPLJ ... PYQA0 BT]	1703z Fair QRN2 QSB2	Spectre	SAT

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

3881//6825	1230 - 1259z	14 Mar	Lecon 24-1/1 Codé, 24-1/2 Clair, 24-1/3 Codé, 24-1/4 Clair	(840 grps/hr)	BR	THU
	1230 - 1302z	15 Mar	Lecon 25-1/1 Code, 25-1/2 Clair, 25-1/3 Code, 25-1/4, Clair	(960 grps/hr)	BR	FRI
	1230 - 1311z	18 Mar	Lecon 01-1/1 Codé, 01-1/2 Clair, 01-1/3 Codé, 01-1/4 Clair	(420 grps/hr)	BR	MON
	1230 - 1300z	19 Mar	Lecon 02-1/1 Codé, 02-1/2 Clair, 02-1/3 Codé, 02-1/4 Clair	(600 grps/hr)	BR	TUE

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.

M89 - 2SLC Message Details – March 2013

As a result of the antenna improvements made to the Hong Kong remote tuner recently, I decided this month to concentrate on one station in order to determine what traffic was being sent. The reason I selected 2SLC is due to the fact that it appears to be the M89 station that sends more messages than the others. This was also the case with Q7NW before being replaced by 2SLC. It should also be noted that 2SLC changed callsign AGAIN to XW6W sometime between 25/26 Mar 13. I'm not including UGT COMM messages which can appear at any time and are used to manage circuits.
When I first started this project, propagation at the times these messages were being sent (1130/1230 and 2230/2330 timeframes) was very good. However, in the middle of the month, daylight saving time came into effect and since then, propagation has been very poor during transmission times.
When I looked at message 20, I quickly realized it was identical to message 19. Being aware of this fact, I created the table below to keep track of repeat messages. As can be seen, there were a number of instances where messages were repeated during the month.

In summary, 2SLC routinely sends approximately 4 messages a day.

The format used is: **MSG NR 071 CK 301 44 0318 2030 BT**

Each message has 301 groups. I'm unsure what the 44 after the group count is, but could be some sort of precedence (ie Routine). In any case, all messages sent this month contained 44 in the message header.

These messages end with: **II BT XXXX**. Still lots of questions to be answered in regards to M89.

Date	Time (Z)	Msg Nr	Start Msg	End Msg	Same as
4	2240	16	356T U7AT UNT6 4NA6 576T	635T	
5	1228	19	74N3 D567 45T3 A7T4 635N	3T4U	
5	2300	20	74N3 D5.7 45T3 A7T4 635N	3T4U	19
6	2300	24	A7D5 6UA5 4ADT 54NT 65AT	36AU	
7	1200	27	A7D5 6UA5 4ADT 54NT 65T7	4UA7	24 (except for last group)
8	1130	31	74N3 D576 45T3 A7T4 635N	3T4U	19
11	1132	43	UNTA UTN5 U3NT N5DS 53DT	74N3	
11	2241	?	?	.4.3	43?
12	2230	48	?	..6.	
13	2230	52	TDTU U6DU		Appears to be repeat of 48
14	1130	55	A4T3 UN34 AT64 .N6D N4T7	UTNA	
14	2300	56	TDTN U6DU NTN3 465U T43U	UN56	Could be repeat of 52
17	2230	?	?	?	Too weak to copy
18	1230	71	..UT 673T I47ND 4U4T A73A	ND3T	
20	2230	?	?	?	Too weak to copy
21	2226	84	A4T3 ..34 .T34 .... N4T7		Possibly 55
28	0900	111	UAN6 N674 45A3 6465 DNU7	5465	

April 2013

Date	Time (Z)	Msg Nr	Start Msg	End Msg	Same as
02	1003	8	AU5T ATU3 UN34 AT64 D63N	UTNA	55 (14 Mar 13)
08	1027	32	UAN6 N674 45A3 6464 DNU7	5465	111 (28 Mar 13)
10	1019	?	?	5465	Repeat of 32 ?
12	1013	?	?	5465	Repeat of 10 Apr 13
12	1644	49	UAN6 N674 45A3 6464 D.U7	5465	Repeat of 12 Apr 13

Operator Chat from M89

4621 1807 - 1823z 27 Mar (In tfc) (Remote Tuner Siberia) JPL WED

(In tfc – hand sent – 1807z) NT67 5TDA NU.4 DTN. 4U.. (Cont'd – uses ? when mistake is made) AR QSL ? K //A RPT 38W K//B (Both stations on same freq) RPT 39W TA 4N TA4N K//A *QSL 0210 K*//B R UGM GA//A ...//B GA//A (1813z) SAR7G GA K//B R GA K//A SR7G *NR 67 CK 5 EE NR 067 CK 99 40 032. 0EEE67 CK 99 40 032.. 00 RMKS .039 TO 910.*//B ... (Into tfc – mostly U/R – 1815z) AR QSL ? K //B (1820z) R QSL 031 EE K//A R HR JK NR 22 K//A R HR HRM EEE HR . R2900 //B R NIL SK//A ... //B (1822z)

5225 1517 - 1526z 24 Mar (In chat) (Remote Tuner Siberia) JPL SUN

(In tfc - 1517z) R K (1517z) ***M6NW DE KQZE K*** (1518z) R K ***A6KW DE KQZE** K * *R K* ***OTD. DE KQZE** K *(1519z)** R K *..**SO DE KQZE** K* R K ***AY.8 DE KQZE** K *(Silent - 1520z)

5314 1923 - 2001z 26 Mar (In tfc) (Remote Tuner Siberia) JPL TUE

(In tfc – machine sent – 1923z) 555T A6D4 U3UD D456 AAUT AT6. (Cont'd) (Using II BT format when error is made in group) II BT 35DU 636T 4U57 DN65 6D4A (Cont'd – 1932z) II II II (Silent – 1936z) *MSG NR 0048 CK 2274 70 0326 2011 BT* U643 3.4T 5UT7 DUU7 A4N4 6ADD T6TA (Cont'd – machine sent - 1937z) (This looks like it could be a very very very long message if actually 2274 groups!!!) II BT 337U 4NDN N3T. (Cont'd – 1950z) II BT 767D U3.. 4N7U 7UN5 (Cont'd – 1958z)

5432 1205 - 1235z 26 Mar (In tfc) (Remote Tuner Siberia) JPL TUE

(In tfc - 1205z) T554 5445 65N5 DU.N 73NU 5354 A567 DU3T 7534 (Cont'd – very slow – machine sent) III BT 34UN T5U6 4744 (Cont'd – 1214z) T6T4 AAN7 67A4 UAU3 III BT *6D3N* AR (1226z) BT *6D3N* 5T6A DII (Silent - 1227z)

(Had similar station 16 Mar 13 on 8050 sending similar tfc – Started message without msg nr and started message with last group of previous message. Also stopped around this time. Possibly operator training?)

5396 0240 - 0251z 28 Mar (In tfc) (Remote Tuner Siberia) JPL THU

(In tfc – 0240z) 4A3D AR (0240z) QSA 2 K HR RPT EEEE HR RPT 63W BT 7T63 7T63 AR (0241z) R H. EE QSL .04. K R WYR. 25. NIL .. UI EEE *VD4J DE J4PQ* (0242z) R QSA 2 K R TR 1WNR 25 K VV OWT EEEE *VV 0PQQ DE J..Q* R QSA 2 K HR NPT. EEE HR WK 2 BT U53AA NR PT 33 OK 73 .. GB K (0245z) HR RPT 30.. DUAA K QSL 10.. K NR 250 K NIL K *VV 9. DE J.PQ* R QSA 2 K R QSL 10.. QSL 1030 VV ..N DE .... Q (0249z) QSA 1 ..(Mostly U/R – 0251z)

5421 1634 - 1711z 19 Apr (In tfc) (Remote Siberia) JPL FRI

(In tfc – 1634z) 5A5T 4N7N 7A3A UDT3 UU5T D564 6UD5 ANAT 5U5D 6475 A7N3 634T (Cont'd) II II BT T3TA D64U 35NN TT4T T353 (Cont'd – 1635z) A537 4T54 7.77 4T47 5D4T 5DUT 3U5. D337 TA54 6U5D A5.4 ANDT *T377* UA64 II II *T377* 53AN 46N4 5AN4 T63T (Cont'd – 1639z) 6A7A 76.D 66AA 77TA D375 63.. 5..7 4AN3 T3T7 UA4D 5NN. 37A6 5..U TA73 T34U DTAD TD6U 5NTN ATD6 4NUU DAAT 667A U767 UA7U NT3T 4N7T. ...4 DD45 T6N. 7A53 77T3 3477 6D4U TNDT 33U5 744. ..4D U7TN 54D3 6AD7 UA73 D5D4 7TNU 75N6 565T 75DA NA34 44N3 DD36 TDN3 UUUU A..53 UN36 UUAU A6.D 3UDN A64N 47A. 4A33 .N36 UT7T 6DTD NNTD A65T D4.T 56TA .77. .TU5 4475 7A5D 3A3D 5NAA 7NTD II II BT AUAT 6TTU TD4A 566T U3T7 56DA AU.. (Cont'd – 1644z) II II BT U.TD 56AU D36T .. (Cont'd – starting to fade – 1648z) 4UD4 N754 ..36 7A33 D7A3 DU33 T.DN 434D N67D U575 7N4. NA.D UT75 D..6 DA.7 .74D 6.3D TDD5 T54T .NU6 3.T4 II BT BT DNN4 6N.3 63D7 UN64 TT4T 4T3N (Cont'd – 1652z) (This is one long message!) II II BT BT U7A7 TU3U 7T.A N65N 666T (Cont'd – 1656z) III III BT (Silent – 1709z)

5432 1510 - 1523z 27 Mar (In tfc) (Remote Tuner Finland) JPL WED

(In tfc – 1518z) (4 Fig cut nr groups – mostly U/R) K (1519z) AGN AGN K (Silent - 1520z)

5432 1408 - 1431z 12 Apr (In tfc) (Remote Tuner Siberia) JPL FRI

(In chat – extremely slow CW – 1408z) NR 01 CK 300 11 0412 2100 BT *MSM NR 01 CK 300 11 0412 2100 BT* (1410z) *MSG NR 23 CK CK 323 23 0412 2132 BT* (1412z) MSG NR 23 CK CK 323 23 041 (Increased speed a little bit) NR 23 CK CK 32I MSG NR 23 CK CK 323 23 0 EEE (1413z) *MSG NR 800 CK* AR 9NE *MSG NR 023 CK 99 23 0412 2300 BT * N57A D64U T3AD 5U4N 367T UT.. (Cont'd – 1415Z) AR (1416z) (Did not send 99 groups) MSG NR T23 CK 9EEE (1416z) MSG NR (Silent - 1417z) VV VV VV (Silent - 1424z)

5440 0201 - 0218z 23 Mar (In tfc) (Remote Tuner Siberia) JPL SAT

(In chat – 0201z) VV R EEER QSA 2 K NR 36 K HR NIL SK (0202z) SK *V H1UT DE C4.. K* R QSA ... K QSA 2 .. NR R. R NIL K *V H... DE C44D K **(H1UT DE C44D)*** R GA . 2 HR MSG .. K (0204z) R ... NR .. N EEE *MSG NR 09* AR K M ..Q.. 23W .. RMKS .. 92 Q.. A37. ... (Mostly U/R -0205z) 90.. ... K (0211z) R U .. GA (0212z) EEE R (Silent - 0213z)

5525 1707 - 1720z 01 Apr (In tfc) (Remote Tuner Siberia) JPL MON

(In tfc – hand sent - 1707z) 764D DA4U .75D 5T.. T.54 5NU .6UA (Cont'd) (Sends ? when an error is made) AR QSL ? //A R RPT 1W//B (Both stations on same freq) R 1W BT 5743 5743 //A *QSL 0200* K //B R U MSG G EEE R. SG GA EEE U MSG GA K //A R HR MSG GA //B *NR 005 CK 99 29 0402 0100 BT* //B 3A4U 5DUN ..N6 N4UA 657. (Cont'd – hand sent - 1711z) AR QSL ? K (1717z) //B R QSL R *QSL 0115* HR WK NR 39 K //A R HR WK HR WR 1. 28 K //B 4 HR NIL K //A R HR NIL K //B R HR NIL K //A R SK //B SK //A R SK GB // B (1718z)

5557 1510 - 1533z 16 Apr (In tfc) (Remote Tuner Siberia) JPL TUE

(In chat – 1510z) R R HR N R R R HR NR 7G GA 7G 7G NR 043/CK KG 12 HR GA HR 7G NR HR GA NR 243 EEE7G
NR 043/CKK CK 121 12 0416 1300 RMKS .98. TO 56. EEE RMKS 5984 TO 5617 K K 1513z) *LN5R* 7G GA (Possible call sign?)
HR 7G GA 1W GA (Both stations on same frequency) BT BT TU36 6TT7 5NNT .... (Cont'd – Hand sent - 1514z) (Send ? when a mistake is made) AR K (1521z)
.. (Other station now U/R) RPT 5W ..BT 6T7D A6RN K R HR R38W BT BT DUTU AR K (1522z) *LLTO* HR (1024z)(Possible call sign?) L EE LASEEE RLA A..HR
LLTO HR LL5A LLTO HR LLTO HR LLTO HR LLTO HR F59L LLLTO HR (1526z) DL. LL.. EEE LLL AS AS LL (1527z) QSL ? K (Silent - 1529z)

5550 1541 - 1554z 10 Apr (In tfc) (Remote Tuner Siberia) JPL WED

(In tfc – 1541z) 43TA 6455 T757 (Cont'd) II II II 2P BT BT BT 7T7D U3N3 5NTN T47A T4DN 55U. (Cont'd – 1541z) II II II 3P BT BT BT
N4.3 AT3U TUU3 7NNA (Cont'd – 1545z) II II II 4P BT BT BT .3U3 N.5U 3ADT N... (Cont'd – 1550z) (Lost remote tuner @ 1554z)

5555 1253 - 1255z 21 Mar (In tfc) ((Remote Tuner Siberia) JPL THU

SVC QSL . 313 NR 00. K. CCK 5 C.5. (In tfc - hand sent) 75.120.45 5N 7800 5313 K/C313. QSP T. T EE R SVC GA (1253z) SV. 3333. 3A 3AVE 3. 33 RM 3 BT SVC VVV QSL
C.T.3 RTT16K CK. K 5075OAWA.T9455678 TO .313/.313/QSP P AR K K (1254z) BT BT 5U HR VVV HR SVC .. 11020 NW.S 4678 TO C313 (Silent - 1255Z)
(Format being used would suggest that this station is part of the QV4B family)

5555 1604 - 1648z 22 Mar (In tfc) (Remote Tuner Hong Kong) JPL FRI

(In chat – handsent - 1604z) UA7D N363 TUDN TTAN 5DDT 364D (Cont'd) (Operator having a lot of problems with his sending abilities – very slow and poor CW – 1611z)
(Second weaker station came up on frequency and sending – 1614z) (Second station sends the following:) *VV .... DE NIWS* (Not 100% sure of call sign)
(Original station on this frequency stops sending – 1617z) ... 149/COMM/182.. 1550/99/. HR SVC RA HR SVC GA BT 1550NN EE BT 1552/99.49./.MMN.. BT EE
(Original station on this frequency sends again while second station continues to send – 1618z) 282./DUTY J.. 1.. 1.. Original station makes it impossible to copy weaker station – 1620z)
(Original stations stops – Silent - 1626z) 9505050 //A (1632z) *DG75 DE FND5* // B* *(Very weak and not 100% sure of call signs) (1633Z) R DE K //A
RRIC BT BT 4446 AR K//A (1634z) R QSL ?//A QSL .... //B OK HR NR 120 K //A R OK NIL SK GB //A (Silent - 1636z) E EEEEEEEEE //A (1638z)
0H H000 T DA3AUTNADTZ TU U3U6 3ADI 3U7T AU77 3TA7 773T AD77 3354 //A (Cont'd - 1639Z) VV DAHU //A (1640z) VV V DA3U TNAD T7.N 676A A56N //A (1641z)
S7G. //B (Believe this might be a call sign) MSG GA //A MSG GA BT TUTT A47NTA ? UA.43 TAU6 UAN5 5 //A (1642z) VV 334 //A (1643z) 3333 43 //A
NR 00001 CK 91 055 0305 0 EE //A MSG GA TAT NR NR 357 NUBSTAUNT 7 //A (1645z) EE M 7T35NA6ADNTU463T.? T657 453T.//A (Cont'd - 1645Z)

5555 1304 - 1334z 24 Mar (In tfc) (Remote Tuner Hong Kong) JPL SUN

(In tfc – Machine sent -1304z) UUTA U66D 445AZ T5N4 DT4A 4AN6 (Cont'd) AR (1309z) .. R (Hand sent – Very poor CW) .PA (1310z) AGN 0W BT BT TTUT AR K
NPV TTUT AR K BT BT TA65 AR K R 90W BT BT N3NT AR K (1311z) 23W BT BT 7455 AR K GA (Silent - 1012z) EE (1328z)
QSY TO 77 EEEE U QSY TO 7722 K U QSY TO 7722 K K (1329z) *QSL 2129 K* (1329z) OK (1330z) BT (Checked 7722 – but station N/H – 1332z)

5555 1105 - 1119z 25 Mar (In tfc) (Mon) (Remote Tuner Hong Kong) JPL MON

(In tfc - 1105z) 7AD3 3D4A TNAD ND6U 5 ? U45? 11200 BT BT U35D 091718 BT 384109189622453643837D ..391 0182 0038 9707M E? 6540 6308
230? 2384 9929 6822 4167 7330 7062 8369 6897 2595 3143 2878 1216 9541 5198 7951 5635 7397 1314 728? 728.? 7283 5058 1040
4102 452 0570 7410 1382 6340 9358 9129 7082 2891 16? 1964 9127 1967 0764 0817 0? 6067 AR (Hand sent – long zeros) II EEEE AR (Silent - 1111z)

5555 1428 - 1435z 25 Mar (In tfc) (Remote Tuner Hong Kong) JPL MON

(In Chat – 1428z) 22W (1429z) 22W 22W AGN 22W 22W AGN R OK *QSL 2229* (1430z) QSL 2229 SK GB (1431z) VV (1432z)

5555 1149 - 1200z 23 Apr (In tfc) (Remote Tuner Hong Kong) JPL TUE

(In tfc – very fast – 1149z) 4746 437D 6ND4 A5T6 NNUA 55ND 3N74 U54N 7N6U (Cont'd) K (1153z) 2P K BT BT BT TN6A4 BT TN6A AR (1153z) TTAU AR (1153z)
BT BT N45D AR BT BT 37TU AR MEM BT BT U4T5 AR (Slowed down- 1154) AGN BT BT U4T5 AR (1155z) BT BT U3AU AR BT BT 5T7D AR K K
AGN (1156z) BT BT UT67 AR AGN BT BT TTA4 AR BT BT UT5 BT BT UT56 AR BT BT A663 AR BT BT TDA4 AR BT BT BT BT 347N AR (1158z) AGN AGN
AGN R BT BT 466N AR BT BT 466N AR AGN R R SK (1200z)

5555 1016 - 1121z 24 Apr (In chat) (Remote Tuner Hong Kong) JPL WED

(In chat – 1016Z) *NR 41 * OK R (1017z) RR *DE 64UX* K R HR QSA 2 R BT 5094 AR K (1018z) R HR *NR 91* K R R *DE J7.Q * R
R R *IEC BT 5094* AR (1019z)(Normally seen during exercises) R HR *NR 72* R *4H.. * QS.. (Very weak) BT 5094 AR NR .. 3. HR *NR 30* HR NR 30 (Silent – 1022z)
R R (1028z) R R R R *DE 0JQV* (1028z – First letter of callsign is Zero) R QSL EM EEEE *QSL 1827* (1029z) QSL 1827 R R R R R SK GB (1030z) R R NR R R
DE 4HMU (1030z) / QSL *1829* RR SK RR *DE J7VQ * R QSL *1830* AGN 21? AS SK R R *DE 64UX* (1032z) R QSL *1825* K R SK (1033z – Silent)
EEEE (1053z) 345 65073.. K 3NT7 4NA5 67N 35DU TAN3 6NA4 7ATD AT5D TU34A (Cont'd – hand sent – groups run together – horrible CW!) 73N5 A73T 74U6
NA34 EEE ? 56DA I ? U5 (1057z) 6?3 T.. UN 6ND... (Cont'd – 1058z) 45AD 543U 43U5 4567 DTAD (Cont'd – 1100z) 45AD 53U4 3U45 (1101z - Silent) VVV
U QSY TO 111 K U QSY TO 111 K K *ICE BT 2651* AR K (1107z) R R HR RH.R/NR .. K AS NR GA K FF *NR 09/EX 1907 *K (1108z) BT BT BT XIGB 9/SPJO 0 AR
K K BT BT XIGB 8 EEEE BT XIGB 9/SJ EEEE BT BT BT XIGB 9/SPJ EEEEE BT BT XIGB 9/SPJ0 3 EEEE BT BT BT XIGB 9/SPJO 0 K (1110z) K UIGU GA K
GA GA (1111z) AGN R QSL QSL 1910 EEEE *QSL 1911* K (1112z) HR QG GA K MSG NR 09 CK 115 EEEEE *MSG NR 09 CK 199 33 0424 1900 BT* K BT BT
65DT 4T63 D46A D53A TA6D 54DT ND5U 3T76 TA7T TT34 43D7 6ADT (Cont'd) (1114z) (Sends ? when a mistake is made) (machine sent)

5555 1102 - 1115z 25 Apr (In chat) (Remote Tuner Hong Kong) JPL THU
VV 9 (1102z) V // K3TT BT BT U7T. VN3D T7U3 .. (Cont'd – handsent – 1108z) (Sends ? when a mistake is made) AR QSL ? QSL ? K QSL 0930 K (1114z)
MSG NR 1 CK .3 .. 04 (Lost tuner to another user – 1115z)

5555 1209 - 1308z 25 Apr (Into tfc) (Remote Tuner Hong Kong) JPL THU

(Frequency monitored from 1209z) BT BT BT BT BT BT BT BT (1214z) .37D 5U74 T7U3 56NA 4NTU 6U37 A4UT 673T (Cont'd) (1215z)
(Sends ? when mistake is made – hand sent) AR (Silent - 1222z)

5556 1101 - 1205z 23 Apr (In tfc) (Remote Tuner Hong Kong) JPL TUE

(In chat – 1201z) R R R QSA 2 QS. 3419 AR K R HR MSG CY GA HW ? (1202z) R GA K *R MSG NR 012//// CCK CK 95 0620 A.900 RMKS 1798 TO 1712 BT* UAT
MSG NR 1234 CK 7890 23 45 7890 BT 7DNT AU34 567DN TAU34 567D NTAU 3 (Stopped - 1205z) (Switched to voice – 1205z)

5588 0903 - 0930z 28 Mar (In tfc) (Remote Tuner Hong Kong) JPL THU

(In tfc – machine sent – 0903z) 4UT6 56NA 6A5N 4745 4DT6 A336 (Cont'd – Very noisy) II *5465* AR (0912z) *MSG NR 111 CK 301 44 0328 .8.0 BT*
UAN6 N674 45A3 6465 DNU7 U7.. 5N3A ..63T TT.. TTT3 DNAT (Cont'd) (0914z) II *5465* AR (Silent – Probably XW6W who previously was 2SLC - 0925z)

5589 1755 - 1806z 26 Mar (In tfc) (Remote Tuner Philippines) JPL TUE

(In tfc – 1755z) 73UT 7DN5 DAT6 UN6A 576T 6ANT A74D .374 (Cont'd – machine sent) ? 4U73 54T6 D45T TNU6 36AN ... AR K (1756z) NR R AG K EEE
RR AGN K (1757z) NGA K (1758z) N EEE R A6A EEE (1759z) NAGN 6 N GA K (1800z) *N QSL 0158 K* (1801z) N EE NR EEELL *NR 008/EX 0200 K* (1802z)
BT BT BT A6C5/ABC5 II BT ABC5/A.CH CK (Silent - 1802z) SK (1804z)

5593 1812 - 1919z 26 Mar (In tfc) (Remote Tuner Siberia) JPL TUE

(In tfc – 1812z) NU6T DT3U 3A54 U34A T5N6 43AD UNT4 T376 (Cont'd – machine sent – 1813z) (Sends ? when a mistake is made) AR R OK QSL 02 EEE R QSL EEE *QSL 0212 K* (1803z) W. K R HR *MSG GA NR 033 CK 99 63 0212 0027*. 1TD EEE *RMKS 1668 TO 9535* GA R 1W GA (Both on same freq) BT .. N.. N6UT .. (Cont'd – handsent – 1805z) *R QSL 02.8* K R OK (1820z) BT GA 4T7. AAD4 ... (Cont'd – machine sent - 1821z) 4UA7 TD7T TT.. N4U7 .55N AR (1829z) R R *QSL 02.0 K* OK HR MSG GA K HR MSG GA MSG NR .34 2 EEE *NR 034 CK 199 72 0327 0230 RMKS 1668 TO 9532 * GA GA BT TUDN 7D. ? 7D4T A5N4 4D6. (Cont'd – handsent – 1832z) AR (1842z) R QSL .... U MSG GA MSG NR 047 CK 299 1EEE *MSG NR 047 CK 199 04 0170 1406 RMKS 9532 TO 1668* R GA R BT D745 4.N3 D.N6 .D6U 5D3U A344 4347 (Cont'd – machine sent – 1844z) AR (1856z) R R *QSL 0259 K* K QSL 0259 K OK RHR MSG GA K GA *MSG NR 035 CK 299 14 0327 0259 RMKS 1668 TO 9532 K* GA BT 4DN4D 6UD7 5D.. T (Cont'd – handsent – 1858z) AR (1915z) K K QSL 0EEE 0410 K EE QSL 01 EE *QSL 0310* K OK (Silent – 1916z)

5821 0213 - 0224z 28 Mar (In tfc) (Remote Tuner Siberia) JPL THU

(In tfc – 0213z) D4.T 4U7A DDN3 .5DT 3AT. TU36 (Cont'd – 0214z) QSL ? K//A ... K//B (Other station on same freq – mostly U/R) R . 4W. 6 UN7 TU A3 U43T AR K//A ... K//B RPT 76W BT N6DU TU3D R K//A ... //B 87W BT D7NA ? D7A7 .. 3N AR K//A .... //B R . GA K//A (Other station into tfc – U/R – 0218z)

5828 1304 - 1325z 12 Apr (In tfc) (Remote Tuner Siberia) JPL FRI

(In tfc – 1304z) AR QSL ? K //A ... K//B (Both stations on this frequency) R RPT 3W BT 7UU EEEE RPT 3W UA5D UA5D K (1305z)//A .. 18W K//B
R RPT 18W 4D34 4D34 4D34 K (1305z)//A RPT 41W K//B B4 EEE R RW EEEE R RPT 41W UN7N UN7N UN7N K //A RPT ..W K//B RPT 41W K//B
64 EEEE R EEEE R RPT 52W 6T35 6T34 ? 6T35 6T35 K //A RPT ..2W K//B R RPT 2W EEEE R RPT 62W UDTD UDTD UDTD K (1308z) //A R RPT 61W K//B
64 EEEE R RPT 61W ATDT ATDN ? 6 ? ATDT ATDT ATDT BT ? ATDT ATDT ATDT K //A R RPT 8.W K //B
R RPT 8.W R RPT 83W ..5D EEEE R RPT 83W 6UA5 6UA5 K (1010z) //A R RPT 8. EEE RPT ...//B R RPT 89W AUD. ..D5 K //A R RPT 91W ..T7 K R QSL ...//B
R U MSG GA K//A ...NR .. CK .. (Mostly U/R now)//B K//B (1317z) NR RPT 17W K//A R RPT 7W K//A R RPT T7..//B R RPT 23W K//A R RPT 23W K//A
R RPT 28W K//A R RPT 43 W K//A R RPT 49W K//A (1320z) R RPT 6 EEE R RPT 62W K R RPT 64W K *QSL 2115* K (1323z)//A OK //B R HR WK NR 17 K //A
R NIL SK //A (1024z)

6762 1402 - 1425z 28 Apr (In tfc) (Sun) (Remote Tuner Siberia) JPL SUN

R R R (1402z) R QSA 1 U QSY QSA 1 U QSY 3.38 K (1403z) VV VV *T... DE WBCX* KK (1404z) (Unsure about call sign) R R QSA 2 *ICE BT 4726* AR K
U GA K (1404z) R GA (1405z) R R GA (1408z) R R RPT 18W K (1413z) R R RPT 19W K (1415z) R R RPT 2.W K R R RPT 3.W K (1416z) R R RPT 32W K
R R RPT 43W K R R RPT 48W K (1417z) R R RPT 58W K R R RPT 59W K R R RPT ..W K (1418z) R R OK QSL 2218 K R 7G GA 7G
NR 001/CCK CK 91 03 0428 2200 RMKS 4208 TO 4938 K (1419z) R BT BT N75A U65T A4DT 7AN5 6T.5 NA73 (Cont'd – 1419z) AR (1424z)
R R RAGN HR WK NR 901 UW.R K OK SK GB (1425z)

6848 2057 - 2109z 15 Apr (In tfc) (Remote Tuner Siberia) JPL MON

(In tfc – hand sent – 2057z) DT7N D46A D437 3.3T N56 EEEEE ?N56A II I 2P BT 3A4N T4TU 7573 DA64 U57A 7TD4 456D 4... (Cont'd – 2058z) AR K (2059z)//A
R K KE 6..//B (Other station on same frequency) QSL A EEE *QSL 0500* K //B OK U MSG GA K//A R HR NR 1200 K //B GA K//A R HR MSG GA K//B
6R NR A.. MSG GA K//B OK GA K//A R *MSG NR 041 NR CCK 1.1 12 0416 0450 RMKS 56.8 TO 5984 K* (2102z)//B OK GA K//A 1P1W GA BT //B
BT ? TU3. .TT. (Fading badly now)//b (Lost remote tuner @ 2109z)

6876 0319 - 0345z 12 Apr F8UO (In chat) (Remote Tuner Siberia) JPL FRI

(In Chat – 0319Z) R R QSL 112 EEE (0320z) R QSL 111 K 25 K R HR WK NR 1. K R .1.1 COMM . R R RPT 31W BT T776 AR K HR WK NR 25 K
R U1200 COMM BT .NW K HR KP. K VV .. R QSA 2 ... R .. K 1200 ... *VV .... DE F8UO* (0325z) 41.. 1200 COMM R QSL ... RPT .. W BT 376U AR K (0328z)
R HR .. 2. R UJEEE UJ2.9COMM 8.Z K HR K PUK VV *B80R DE F8UO K* R BJIN QDE D5T0R QSA 2 QSA ? K (Both stations on same freq and very weak)
R QSA 2 K R RPT 34W K R RPT EEE 342 BT ..D. K AGN RPT 34W K RPT (0331z) QSA ? K (0332z) R HR WK NR 26 K R HR U K. 25 K R OK HR ,.U.. R
VV HWTEEEE VV HJ EEE (Silent - 0334z) *B1PQ de 0PV.* R QSA 2 QSA ? K (0337z) R QSA 1 K R ..R NJHI RPT 21W K R RPT ... R QSL.. HR ...
R HR WK NR 08 K (0339z) R *BQ.. DE 0PPT* QSA 2 QSA ? K QSL 112. K (0341z) HR WK NR 26 K (0342z)

7769 1137 - 1148z 02 Apr (In tfc) (Remote Tuner Siberia) JPL TUE

(In tfc – hand sent – extremely slow – weak signal - 1137z) BT TD36 476U DU7A 3DT5 DTN4 D754 UTN5 (Cont'd) (When error is made II is used) (Silent 1146z)

7777 1344 - 1358z 28 Apr (In tfc) (Remote Tuner Siberia) JPL SUN

(In chat – 1344z) R BT 5N35 AR K R R R BT A BT A46D AR K (1345z) R BT T4N7 AR K R BT .... AR K R BT N3AN AR K (1346z) R BT 7.37 AR K
R BT 6TAD AR K (1347z) R BT 6TA. AR K .. K R R HR MSG .. K (1349z) R HR MSG GA K R *MSG NR 105 CK 99 53 0428 2000*
3AAD T7.5 DUD6 NU.. (Cont'd- 1050z) AR K R (Silent – 1355z) R R R SK GB (1358z)

7841 1059 - 1108z 10 Apr (In tfc) (Remote Tuner Siberia) JPL WED

(In tfc – hand sent – 1059z) .5A3 7U6N AR K (1100z) QSL ? GA PSE C.KK OK GA GA (1102z) BT BT BT T. BT BNT3 G. ? .. (Fading badly) GA GA (1103z) OK GA GA
VV BT BT T.NT3 A. (Both stations on same frequency – 1105z) QSL 1907 HR ... K (1106z) OK OK QSL 1907 HR WK NR 112 AR K K (Silent - 1107z)

7889 1636 - 1647z 25 Mar (In tfc) (Remote Tuner Siberia) JPL MON

(In chat – 1636z) AS G *CK 91 12 126 0035 K* A K N K N. N. 4 BT BT (Weak signal) TDDD 65UN NA4U 6DU7 54AU 36TU 357U N73T
Cont'd – Machine sent CW - 1637z) AR QSL ? K (1640z) ... (Other station is also on this freq but mostly U/R) R QSL 0.. K R K .. 2.. 0034 0.. BT
(Into tfc – mostly U/R – Machine sent CW - 1642z) QSL .. S0 K (1645z) R EEE R Z QS. /W K NO K (Silent – 1646z)

8010 1723 - 1730z 8010 CW M89 (In tfc) (Wed) (Remote Tuner Siberia) JPL

(In tfc – 1723z) (In 4 fig – cut numbers – very weak signal) ..... GA (1725z) OK .... K (1729z - too weak to copy)

8050 1336 - 1345z 15 Mar (In tfc) (Remote Tuner Russia) JPL FRI

(Hand sent – 1326z) 76N7 6TUA U54T UA64 676N NA7U 57A. 4353 6475 III 437 6T5A 3U6A N3AT 354U DUA5 4N4T 67N3 56ND AUD3 4DUA T567 6U4T T6 4A TN34
6N4A 76UA 63D7 435D ANA6 UA66 U3AT 4A74 5UD6 4UA5 D3 TN 4T4A 637N 5U7N 53U6 3D5D 736D 45NA 54D5 7T47 37NA 3N73 47 U6 N467
D346 U53N 4DTU 674T 57DU 3U43 UAU6 75DT 3T5U NAT4 3D A6 NUDT 57AT 7A5 NUAT N373 N5D6 NT3D D6DN 6N5A UN7A DU.U U7T 5 5NAT
T3DU D75A T47D T6U5 DNIN5 743U 3NT6 UN3NS 7AT 7UT5 N UAT N373 N5D6 NT3D D6DN 6N5A UN7A DU4? DU4U U7T5 5NAT T3DT D7 5A T47D
T6U5 DNN5 743U 3NT6 UT3N AR K (1332z) K K K K K K K K K K (1333z) RE R R U MSG GA K (1344z) N GA (1334z)
(Female voice came up on freq and followed by data transmission) (1335z) (Back to female voice – 1336z) (Silent - 1344z)

8050 1001 - 1123z 16 Mar (In tfc) (Remote Tuner Hong Kong) JPL SAT

(In tfc – 1001z) 4U5N UADN 57UA 5NUU (Cont'd) UAUT 67UT 63A7 5TDU U7T6 356N 65AN TNNN T6T4 AAN7 67A4 UAU3 II BT *6D3N* AR (1018z)
6D3N H7AD 3AN6 H77N UU34 ANT4 UNNA A567 5767 (Cont'd -1018z) **(Did not send a msg nr – also strange that msg started with last group of previously sent msg)**
II BT .... AR (Missed ending – possibly *U473*?) *U473* N33U AA54 5AU7 6656 N7AT U77A 57U7 736A (Cont'd – 1035z) II BT *4T53* AR (1051z)
BT *4T53* 535T A5AU 55DN 6456 7N56 TNA7 7NT7 33DA 7T7T TA6A (Cont'd – 1051z)
(Again, started with last group of previously sent msg – Still no msg nr being sent – Either this is a very long message or possibly operator training)
II BT *T677* AR (1107z) BT *T677* A374 757T 5N47 TD5T A75D (Cont'd – 1107z)
(Again, started with last group of previously sent msg – end of msg format same as that used by 2SLC) IIBT *3D67* AR BT
3D67 U566 U3TU U57A 7TD4 T344 73UN 657A UA3N (Cont'd – 1123z) (Now checking 2SLC on 5588 for morning msg - 1123z)

8050 1213 - 1513z 17 Mar (In tfc) (Remote Tuner Hong Kong) JPL SUN

(In tfc1213z) (Hand sent) (Part transcript only)
NAAN 47N4 7UTD TTD4 34DA DT7T 35UN 4UDN 465T NTT6 U554 4535 5TT3 N73U N5NU 5635 T34A A46A 6U37 DNUD 7A43 766N 5T6U 7TDT
4UDU AND7 N36N 4D5U D6DA N645 U4U3 7NDN AD7A U7A6 T3D5 D545 3A7D 43TD 653N 63TD UA6T 7A54 D33U T7D4 4767 5T3A EEE BT
3T36 37DA E? DT36 7TT4 UTD3 67A7 D6AN 6NT6 TA67 TTD3 BU6 T7D6 NTN4 D6D4 N534 N5T5 U3N6 4AT7 3TDU DU5U 7TA5 76TA N7TA 7TTN
5TTU N4TU D747 U6A7 D6NT T55D AN5A 464U N55D AN4U N3NU N7DU I? D5AN NUN7 D543 D57N 6446 376T D7NU 7663 UT47 4NND T53U
7D65 3AA3 5UNU 5NA4 4335 43AN 4535 A47D 4D? 4DN3 65AU N476 3U4A N746 D633 53T5 UD63 5DD5 N6AU ATDA N4N3 N574 34UT U6T6
35AT 6AD7 TUUT D44D 6A7T T4NT 4DAU DA5T 764U A33A 6U7A 4UT5 D37N 7D67 4ADU 56TU U7U7 634U 63AU AT7A 4353 54DU 3773 76D4
AT5N U57N ? 5A66 43NA 6U54 AR K (1221z) R R BT BT UTD3 AR K BT 67A7 AR K BT 6NT6 AR K AGN BT 6NT6 AR K BT TTD3 AR K
BT TTD3 AR K BT TTD3 AR K BT TA67 AR K BT 4TDU AR K BT N4N3 AR K R BT TTT7 AR K (1224z) BT TA74 AR K AGN R BT .... AR K
R BT AND7 AR K R SK EEEE AS (1225z) UMSG GA K U7G GA K R GA (1226z) R AEEEE 11QMG K (1227z)
JEEE 2PTT 19W K (1236z) (2ND Part of msg 19th group?) EEE 12 K AGN R 1PTT AS *QSL 2036 K* (1238z) QSL 2036 K R AS (1238z) UMSG GA K
GA (1239z) 3EEEE3PK 1W (1253z) R 12W K AGN FM R 60W K 62 W FM 2P K 97W K 97W 1W K EEEEE 1PO 28R K *QSL 2054 K* (1256z) AS
HR 7G GA K (1257z) *MSG NR 39 CK 199 47 0317 2000 K *(1258z) BT BT 4373 T5DN 7UTA 7N56 3TU6 5D64 T73A N6U4 TA66 TT4A U46D 35NA
(Cont'd) AS (1259z) NT4T DUT4 ND4N N737 T7U6 (Cont'd – 1300z) ADU6 ADUT 7ATN AR K (1309z) R BT U6N7 AR K EEEE D BT BT 7ATN AR K
BT ADUT AR K AGN BT 6T3T AR K (1310z) AGN R R BT 43TN AR K AGN R BT 5T3 EEEE BT 5T63 AR K BT BT 6N7D AR K BT 6N7D AR K

8050 1157 - 1229z 18 Mar (In tfc) (Mon) (Remote Tuner Hong Kong) JPL MON

As a result of yesterday's M89 CW activity on 8050, monitored this frequency at 1000 and 1100z. Monitoring 8050 since 1157z - Into male voice on 8049 USB – 1211z. When voice comes on, I can hear CW in the background. Into data mode of some sort for approx 1 minute @ 1218z. (Back to voice 1220z) (Silent 226z)

8142 1453 - 1511z 25 Mar (In tfc) (Remote Tuner Siberia) JPL MON

(In tfc – 1453z) N67T 6743 DUAD D... (Cont'd - handsent) EE K K (1456z) R R 2G.1MGA BT BT U6DN 46.. T.3AT (Cont'd – 1457z)
R. MP 5I EEEE 3P OM 1W GA BT A4NU 75.D (Cont'd – 1503Z) .R K (1508z) GA (1508z) GA (1509z) (Lost remote tuner @ 1511z)

8743 0314 - 0327z 09 Apr (In tfc) (Remote Tuner Siberia) JPL TUE

(In tfc – 0314z) NA73 N? TAU4 N4? N373 TAU4 N566 T566 N564 (Cont'd) (Sends ? when a mistake is made)
67N5 NNNA TU43 T3.4 TTT4 T64A NDU3 N? 67N5 N474 DT33 N3A3 ? N3A3. .? N533T3A3 N..
7544 T7UA 67N5 NNNA TU43 T344 TTT4 N3T3 NU34 7544 T.? NU76 N54A (Silent – 0322z)

10180 0937 - 0951z 25 Apr (In chat) (Remote Tuner Hong Kong) JPL THU

In tfc – 0937z) N636 U733 U5NT ADUT 4D6U 45T5 4NUN NT36 54TT 3UAD (Cont'd – 0938z) (Sends ? when an error is made)(N/H on // 5801)
(Used another remote tuner (Siberia) to monitor this frequency, however 3A7D is in callup, so this is not 3A7D) C (0944z) K (0945z) R R (0946z – Silent)

10255 0010 - 0035z 17 Apr (In tfc) (Remote Tuner Siberia) JPL WED

(In tfc – 4 Fig cut numbers – 0010z) AR K (0011z) OK U MSG GA K //A .. 34 17 ... BT //B (Mostly U/R) OK GA //A (Mostly U/R – 0013z) RPT 27W (0016z)//A
RPT 28W //A RPT 42 TO 49W K//A RPT 42W //A AGN//A OK *QSL 0819* K (0018z) UKP. //A *BYOG DE GN7V K * R DE DE X. EE HR EGA K
NR 1826 DNEX O821 RMKS 3892 TO 3470 K (0019z) METIG TIME O821 K OK BT BT *ABCJ DE ABC2 K* OK QSL ? *QSL 0822* K OK . USU. GA K OK
C. EE *NR 7036/.0823* K OK GA TET BT T.A.B./B5.D CO OK *QSL O824* K OK HR MSG GA K GA MSG NR NR 1826 CK 49 68 0417 0821 RMKS IIII
MSG NR 1827 CK 49 6. 04.7 0800 RMKS N RMKS 3892 TO 4470 K OK BT GA BT DX BT HUHU TDN7 N45A 45.4 D36T (Cont'd) (0023z) AR K (0025z QSL ?
QSL 08.0 K OK U MSG GA K OK *MSG NR NR ..37 CK 49 67 04.. 0800 RMKS 4470 TO 3892 K* OK GA BT BT T.TA 7NA4 U6.U 7... (Cont'd – very weak – 0027z)
AR K RPT RPT 27W (0031z) RPT 39W BT BT 53A5 AR RPT 4 RPT 40W BT BT T4.U K RPT 41W (0032z) OK *QSL O834 K* OK UKP OK (0033z – Silent)

10261 1536 - 1555z 30 Mar (In tfc) (Remote Tuner Siberia) JPL SAT

(In tfc - Hand sent - 1536z) 6ANT 7U6A NN46 A5ND TU74 T5TU T.T7 TN4U (Cont'd) (Sends ? when a mistake is made)
BT BT N3T5 3N5D D6U4. (Cont'd – 1540z) II II II BT BT T5N6 .N6D 5D73 DTNA 4U5D D.34 (Cont'd – 1547z)
UAA7 A4UA 6.AD 65.A 5T5N 47N5 73N5 A737 D5T6 T AR K QSL ? K (1552z) R SK GB (1553z) ZUU7T 777 M (1554z)

(When a mistake is made, the ? is used to make a correction)

10326 0917 - 0930z 01 Apr (In tfc) (Remote Tuner Siberia) JPL MON

(In tfc – hand sent – 0917z) AR QSL ? K (0918z) R . 81W ..N ND5. K R RPT .6W 5T3U R RPT 6W TO .0W BT 3D5N UN.T 3D45 N3U4 74N5 K (0920z) R 7G GA K
R GA (0920z) U MSG GA K (0921z) R QSL 1715 K R QSL 1715 K (0928z) R HR WK NR 17 K R HR NIL K (0929z)

10368 1141 - 1146z 14 Apr (In tfc) (Remote Tuner Siberia) JPL SUN

(In tfc – 1141z) 6A6A 4N6A .... (Cont'd – fading badly and very weak) (Sends ? when a mistake is made - now mostly U/R)

10446 0204 - 0209z 27 Apr (In tfc) (Remote Tuner Siberia) JPL SAT

(In tfc – 0204z) UTD5 T53N A5T. 7DUA 7D.. (Cont'd) AR K (0207z) 7ATN AR K (0207z) R RPT GA ? (0208z) U. GA? R U . GA ? GA (0209z)

10456 1001 - 1021z 28 Apr (In tfc) (Remote Tuner Siberia) JPL SUN

R GA K (1001z) R RPT 53 .. (1007z) R RPT .. K (1008z) R W.PT 77A EEEE RPT 77W K R R QSL 0819 K (1009z) QSL 4THL EEEE QSL 1819 K (1010z)
R HR ..7M EEE 7G NR 0.3/C.. 9 GN 7G *NR .03/CCK CK 91 3 BT 271. RMKS 420. TO 50EEEEE RMKS 420. TO 67.8 K* BT BT NU6. DD.. TN4. 46UA (Cont'd – 1012z)
(Hand sent - Sends ? when a mistake is made) AR K (1017z) K ..D2 N3D3 K (1020z) R RPT 39W BT D6 AR HR RPT 39W TAD6 K R HR WK NR 902 K
R SK R GB K R GB K (1021z)

10507 0236 - 0240z 03 Apr (In Chat) (Remote Tuner Siberia) JPL WED

(In chat – 0236z) R *QSL 1037* K K OK QSL 1037 K (0237z) OK *NR 8003/EX 1039 RMKS .773 TO 0778 K K *(0238z)** OK BT
QY2C DE RSA. AR K OK OK (Switched to voice – 0239z)

10542 1227 - 1232z 23 Apr (In tfc) (Remote Tuner Siberia) JPL TUE

(In tfc – 1227z) *028 RMKS 8178 TO 8145 BT* (1228z)//A RPT NR NR //B (On same frequency, but slightly off frequency) OK VVV *NR 155/EX* //A OK OK 7G
GA GA//B OK OK 4 BT I346 D634 3NTA 36D4 64D3 D7U5 7T4U 47A6 75AD N5A6 T547 TA4D 47UT 547D 6745 73UT 7AD3 7T5A 536T III //a OK OK //BB
OK //A QSL ? QSL QSL 2032//B RPT//A RPT 2032 //B QSL 2031 //B RPT //A OK QSL 2031 //B (1232z) VA VA VA //B VA //B OK GB //A (1232z)

10998 1047 - 1048z 16 Apr (In tfc) (Remote Tuner Siberia) JPL TUE

(In tfc – hand sent – 4 fig cut numbers – 1047z) AR HR WK NR 43 (Silent - 1048z)

10998 0337 - 0347z 17 Apr (In tfc) (Remote Tuner Siberia) JPL WED

(In tfc – 0337z) 54TA 354T A7U3 N3U6 6NTA U ? 5DUN 7AD5 763D 37DN (Cont'd) (Sends ? when a mistake is made) R (0343z) (Silent)

10999 1040 - 1045z 26 Apr (In tfc) (Remote Tuner Finland) JPL FRI

(In tfc – weak and fading – 1040z) (In 4 fig cut number tfc) NIL SK NIL SK (Silent - 1042z)

M89 Regular Logs
March 2013 (New pairings marked in **bold** type)

3330//NRH	1326 - 1327z	02 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
	1443 - 1444z	02 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
	1903 - 1904z	03 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	1938 - 1940z	04 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	2239 - 2244z	04 Mar	(In tfc) V MW3D (x3) DE 2SLC (x2)(Cont'd) (Remote Tuner Hong Kong)	JPL	MON

(2239z) 35A3 T54 N7D 7NUD .UN 75UT (Cont'd) BT 635T AR (Silent - 2240z) *MSG NR 016 CK 301 44 0.05 0630 BT*
(2256z) 356T U7AT UNT6 4NA6 576T N546 D7A6 (Cont'd) BT .35T (Silent – 2253z) (Return to R/S 2256z)

1638 - 1640z	05 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
1730 - 1731z	05 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
1844 - 1850z	05 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
1934 - 2000z	05 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
2031 - 2032z	05 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
2131 - 2137z	05 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
2230 - 2257z	05 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
1231 - 1234z	06 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
1301 - 1305z	06 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
1636 - 1645z	06 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED

(1636z) VVV UG GA GA BQB3 RMKS 2819 TO 1202/1489 UGT K (1638z) *COMM* AES BT BT BT
65175/1202/0200/117NR/2819 AR BT BT
65175/1202/0200/117NR/2819 AR AR BT BT
(1638z) 65175/1202/0200/117NR/2819 AR UGT AR AR AR (1640z – Return to R/S – Hand sent)

1726 - 1735z	06 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
1808 - 1819z	06 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
2026 - 2027z	06 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
2110 - 2119z	06 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
2125 - 2259z	06 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
1146 - 1229z	07 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU

(QSY from 5588 – 1146z) CQ 63 RMKS 2819 TO 4371/1/1E89.*COMM* AAEEE 175/4371/2100/117//2819 AR
N65 175/4371/2100/117//281/2/2819 AR (Sent extremely slow) (Return to R/S – 1149z)
*
MSG NR 027 CK 301 44 0307 2000 BT A7D5 6UA5 4ADT 54NT 65T7 63T7 N36U
(Cont'd – running groups together – 1200z) II BT 4UA7 AR
MSG NR 027 CK 301 44 0307 2000 BT A7D5 6UA5 4A.T 54NT 65T7 63T7 N36 U456 TT66 TTTU (Cont'd) (1211z)
II BT 4UA7 II AR (1221z) (Return to R/S)

Msg nr 027 appears to be the same as msg nr 024 sent at 2300z 6 Mar 13 except for the last group which is different

It should be noted that before the last group is sent, the format II BT is used – until now I've only been showing the BT, but it is in fact II BT

At the moment it appears that the same msg may be sent several times during a 24 hour period using a different message number

From my observations so far, M89 stations appear to QSL the Date Time Group (DTG) of messages and not the message number

1715 - 1719z	08 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
2035 - 2045z	08 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
2244 - 2257z	08 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
1157 - 1201z	09 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
1502 - 1503z	09 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
1916 - 1950z	09 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
1100 - 1119z	11 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
1125 - 1131z	11 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON

MSG NR 043 CK 301 44 0311 1.30 BT UNTA UTN5 U3NT N... (Cont'd – 1132z) II BT 74N3 (1144z)
MSG NR 043 CK 301 44 0311 1..0 BT UNTA UTN5 U3NT N5DS 53DT 5636 73U. (Cont'd) (1145z) II BT 74N3 (1157z)

1355 - 1406z	11 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON

EEE (These 3 E letters were sent as Barred E – Handsent – 1400z) CQ 63 RMKS 1489 TO 4069 WETCOMM S. 033
65175/4069/2230/237NR/1489 BT BT 65175/4069/2230/237NR/1489 AR (Return to R/S – 1401z)

2014 - 2019z	11 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
2241 - 2256z	11 Mar	(In tfc - Probably 2SLC) (Remote Tuner Hong Kong)	JPL	MON

(In tfc 2241z) 4U6T 3544 6U.U (Cont'd – poor signal) II BT ..43 (Silent – 2252z)

1140 - 1231z	12 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
1340 - 1341z	12 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
1556 - 1557z	12 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
1848 - 1850z	12 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
2204 - 2256z	12 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE

MSG NR 048 CK 301 44 0313 .... BT (2230z) .... 465U T43U 4363 7U3T TDN6 TT64 TTT4 (Cont'd)
II BT ..6. (Signal fading very quickly – mostly U/R now – 2244z)
MSG NR 048 CK 301 44 0313 .603 BT (U/R now – Repeats msg – 2245z) II BT .... (Return to R/S - Mostly U/R 2256z)

1630 - 1631z	13 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
1918 - 1919z	13 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
2211 - 2250z	13 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED

MSG NR 052 CK 301 44 0324 0630 BT (2230z) TDTU U6DU ..TN 46.U T43U 4363 7U3T TDN6 TT64 TTT4 (Cont'd)
(Once again, signal fading badly – looked at live grey line map and the grey line is just passing over Hong Kong. So reason why signal fades badly at this time)
II BT .... *MSG NR 052 CK 301 44 0324 0630 BT *(2241z) T....U6DU .... (Fading so bad now mostly U/R)
(Message appears to be a repeat of MSG NR 048 sent last night at this time) (Signal now completely gone – 2250z)

	1110 - 1153z	14 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
			MSG NR 05 . CK 301 44 031. 1930 BT (1129z) A4T3 UN34 AT64 .N6D N4T7 37DT TT64 TTT. 7N.. (Cont'd) II BT UTNA (1139z) *MSG NR 055 CK 301 44 03.4 1. . . BT* A4T3 UN3. UT64 .N6D N4T7 37DT TT64 TTTU 7N6T 57AU (Cont'd – 1140z) II BT UTNA (Return to R/S 1152z)		
	1845 - 1847z	14 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	2225 - 2258z	14 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	2258 - 2327z	14 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
			MSG NR 056 CK 301 44 0315 0700 BT (2258z – QSY from 3330) TDTN U6DU NTN3 465U T43U 4363 7U3T TDN6 TT64 TTT4 7576 3.34 675T (Cont'd) II BT UN56 *MSG NR 056 CK 301 44 03.5 0700 BT* (2312z) TDTN U.DU NTN3 465. T43U 436. 7U3T TDN6 TT64 TTT4 75.6 3D34 (Cont'd) II BT UN56 (Return to R/S - 2324z)		
	1216 - 1219z	15 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	1636 - 1637z	15 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	1903 - 1 904z	15 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	2005 - 2006z	15 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	22 38 - 2328z	15 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
			Note: Completely faded out. Monitored 5588 in hopes of getting the nightly message until 0007, but no luck tonight.		
	1709 - 1710z	16 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
	1912 - 1919z	17 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	2145 - 2242z	17 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
			(Into tfc @2228z - very poor signal quality - fading badly) MSG NR ... CK ... 44 0319 0610 BT (Unable to copy due to weak/fading signal)		
	1231 - 1303z	18 Mar	(In tfc - Probably 2SLC) (Remote Tuner Hong Kong)	JPL	MON
		(1231z)	T7A3 45D5 NUTT UN53 (Cont'd) 7TND 54T3 D7A3 ADTN 67U3 II *ND3T* AR *MSG NR 071 CK 301 44 0318 2030 BT *(1244z) ..UT 673T I47ND 4U4T A73A 6T3A U5NT 475A TT66 TTTA 754D (Cont'd)		
		(1258z)	DT65 3U7D 4DNT 7TND 54T3 D7A3 ADTN 67U3 II BT *ND3T* AR (Silent - 1258z)		
	1757 - 1819z	18 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	2012 - 2013z	18 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1125 - 1202z	19 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1910 - 1911z	19 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	2107 - 2109z	19 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	2214 - 2216z	19 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	2225 - 2300z	19 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
			Note: Signal extremely poor and completely faded out		
	1128 - 1205z	20 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	1512 - 1513z	20 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	2144 - 2233z	20 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
			Note: Into tfc at 2230z, but signal too weak to copy.		
	1911 - 1912z	21 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Siberia)	JPL	THU
	2225 - 2244z	21 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
			MSG NR 08. CK 301 44 0322 0.30 .. (2226z) *MSG NR 084 CK 301 44 03.3 ...* MSG NR 084 CK 301 44 .3.2.... BT (Unusual to send message header 3 times) A4T3 ..34 .T34 .... N4T7 .... (Cont'd – signal fading badly as usual – Mostly U/R now) (2243z – completely faded out now)		
	1112 - 1119z	22 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	1331 - 1332z	22 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	2028 - 2029z	22 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	2125 - 2141z	22 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	2229 - 2244z	22 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	1335 - 1336z	24 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	1734 - 1735z	24 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	2109 - 2110z	24 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	2127 - 2140z	24 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
			Note: New set of call signs on this frequency. Checked 5588 to see if 2SLC was active, but all quiet at the moment		
	1125 - 1135z	25 Mar	V 8CPZ (x3) DE XW6W (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1259 - 1300z	25 Mar	V 8CPZ (x3) DE XW6W (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1427 - 1428z	25 Mar	V 8CPZ (x3) DE XW6W (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1625 - 1626z	25 Mar	V 8CPZ (x3) DE XW6W (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1930 - 1931z	25 Mar	V 8CPZ (x3) DE XW6W (x2) (Cont'd) (Remote Tuner Siberia)	JPL	MON
	2120 - 2121z	25 Mar	V 8CPZ (x3) DE XW6W (x2) (Cont'd) (Remote Tuner Siberia)	JPL	MON
	1146 - 1147z	26 Mar	V 8CPZ (x3) DE XW6W (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1753 - 1754z	26 Mar	V 8CPZ (x3) DE XW6W (x2) (Cont'd) (Remote Tuner Philippines)	JPL	TUE
	2107 - 2108z	27 Mar	V 8CPZ (x3) DE XW6W (x2) (Cont'd) (Remote Tuner Siberia)	JPL	WED
	0939 - 0940z	28 Mar	V 8CPZ (x3) DE XW6W (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	1153 - 1154z	28 Mar	V 8CPZ (x3) DE XW6W (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	1945 - 1946z	28 Mar	V 8CPZ (x3) DE XW6W (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	1220 - 1201z	29 Mar	V 8CPZ (x3) DE XW6W (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	2010 - 2011z	29 Mar	V 8CPZ (x3) DE XW6W (x2) (Cont'd) (Remote Tuner Siberia)	JPL	FRI
	1302 - 1303z	30 Mar	V 8CPZ (x3) DE XW6W (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
	1847 - 1848z	30 Mar	V 8CPZ (x3) DE XW6W (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
	2157 - 2232z	30 Mar	V 8CPZ (x3) DE XW6W (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
	1309 - 1310z	31 Mar	V 8CPZ (x3) DE XW6W (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	1925 - 1926z	31 Mar	V 8CPZ (x3) DE XW6W (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
3642//NRH	1844 - 1845z	14 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	THU
	2217 - 2218z	14 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	THU
	1717 - 1718z	16 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	SAT
	1952 - 1952z	28 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	THU

3642//5230	1328 - 1329z	02 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	SAT
	1441 - 1442z	02 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	SAT
	1350 - 1351z	05 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	TUE
(3642 only)	1558 - 1559z	05 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	TUE
	1735 - 1736z	05 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	TUE
	1843 - 1844z	05 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	TUE
	1932 - 1933z	05 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	TUE
	2130 - 2131z	05 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	TUE
	2228 - 2229z	05 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	TUE
	1635 - 1636z	06 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	WED
	1752 - 1753z	06 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Russia)	JPL	WED
	2108 - 2109z	06 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Russia)	JPL	WED
	1713 - 1714z	07 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Russia)	JPL	THU
	2034 - 2035z	07 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Russia)	JPL	THU
	1501 - 1502z	08 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	FRI
	1913 - 1914z	08 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	FRI
	1338 - 1339z	12 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	TUE
	1555 - 1556z	12 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	TUE
	1846 - 1847z	12 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) ((Remote Hong Kong)	JPL	TUE
	1917 - 1918z	13 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	WED
(3642 only)	2301 - 2302z	13 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Russia)	JPL	WED
	1910 - 1911z	17 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	SUN
	2143 - 2144z	17 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	SUN
	1752 - 1753z	18 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	MON
	2012 - 2013z	18 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	MON
	0025 - 0026z	19 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	TUE
(3642 only)	1908 - 1909z	19 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	TUE
(3642 only)	2106 - 2107z	19 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	TUE
(3642 only)	2212 - 2213z	19 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	TUE
	1520 - 1521z	20 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	WED
	1718 - 1719z	20 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	WED
	1900 - 1901z	21 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	THU
(5230 only)	2254 - 2255z	21 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	THU
	1329 - 1330z	22 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	FRI
	2026 - 2027z	22 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	FRI
(5230 only)	1435 - 1436z	23 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Russia)	JPL	SAT
(5230 only)	2312 - 2323z	23 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	SAT
	1442 - 1443z	25 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	MON
	1631 - 1632z	25 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	MON
	1916 - 1917z	25 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	MON
(5230 only)	2315 - 2316z	26 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Russia)	JPL	TUE
(5230 only)	1435 - 1436z	30 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	SAT
(5230 only)	1557 - 1558z	30 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	SAT
	1842 - 1843z	30 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	SAT
	2155 - 2156z	30 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	SAT
3642//7602	1347 - 1348z	03 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	SUN
	1901 - 1902z	03 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	SUN
(3642 only)	2113 - 2114z	03 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	SUN
(3642 only)	2301 - 2302z	03 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	SUN
	1936 - 1937z	04 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	MON
	2238 - 2239z	04 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	MON
	1354 - 1355z	11 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	MON
	2013 - 2014z	11 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	MON
	2305 - 2306z	11 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	MON
	1642 - 1643z	15 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	FRI
	1907 - 1908z	15 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	FRI
	2012 - 2013z	15 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	FRI
(7602 only)	1358 - 1359z	24 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	SUN
	1540 - 1541z	24 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	SUN
(7602 only)	1719 - 1720z	24 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	SUN
	2107 - 2108z	24 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	SUN
(7602 only)	1334 - 1335z	31 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	SUN
	1929 - 1930z	31 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	SUN
3725//NRH	1346 - 1347z	05 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1554 - 1555z	05 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1732 - 1733z	05 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1841 - 1842z	05 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1930 - 1931z	05 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	2128 - 2129z	05 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	2226 - 2227z	05 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1709 - 1710z	07 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	2030 - 2031z	07 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	1202 - 1203z	08 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	1459 - 1500z	08 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	1910 - 1911z	08 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	1051 - 1052z	11 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1516 - 1517z	13 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	1627 - 1628z	13 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	1915 - 1916z	13 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	2256 - 2257z	13 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	1516 - 1517z	20 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED

	1714 - 1715z	20 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	1904 - 1905z	21 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Serbia)	JPL	THU
3725// 4590					
(4590 only)	1932 - 1933z	04 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	2234 - 2235z	04 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1906 - 1907z	17 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	2139 - 2140z	17 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
3725//7607	1332 - 1333z	02 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
	1437 - 1438z	02 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
(3725 only)	1225 - 1226z	03 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
(3725 only)	1343 - 1344z	03 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
(3725 only)	1857 - 1858z	03 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
(3725 only)	2109 - 2110z	03 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
(3725 only)	2257 - 2258z	03 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	1351 - 1352z	11 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	2010 - 2011z	11 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1750 - 1751z	18 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	2008 - 2009z	18 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	2248 - 2249z	21 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
3797//4512					
(4512 only)	1330 - 1331z	02 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
(4512 only)	1439 - 1440z	02 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
	1227 - 1228z	03 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	1345 - 1346z	03 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	1859 - 1900z	03 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	2111 - 2112z	03 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	1112 - 1113z	04 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1934 - 1935z	04 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	2236 - 2237z	04 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1208 - 1209z	05 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1348 - 1349z	05 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1556 - 1557z	05 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1733 - 1734z	05 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1842 - 1843z	05 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1931 - 1932z	05 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	2129 - 2130z	05 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	2227 - 2228z	05 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1229 - 1230z	06 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	1633 - 1634z	06 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	2106 - 2107z	06 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	1129 - 1130z	07 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	1711 - 1712z	07 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	2032 - 2033z	07 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	1128 - 1129z	08 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	1500 - 1501z	08 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	1912 - 1913z	08 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	1053 - 1054z	11 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1353 - 1354z	11 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	2012 - 2013z	11 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	2303 - 2304z	11 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1336 - 1337z	12 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1554 - 1555z	12 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1844 - 1845z	12 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1517 - 1518z	13 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	1628 - 1629z	13 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	1916 - 1917z	13 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	1041 - 1042z	14 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
(3797 only)	1157 - 1158z	14 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	1842 - 1843z	14 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	1206 - 1207z	15 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	1638 - 1639z	15 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	1905 - 1906z	15 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	2014 - 2015z	15 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	0957 - 0958z	16 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
	1715 - 1716z	16 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
	1908 - 1909z	17 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
(3797 only)	2141 - 2142z	17 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
(4512 only)	0940 - 0941z	18 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1107 - 1108z	18 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1754 - 1755z	18 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	2010 - 2011z	18 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1115 - 1116z	19 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1906 - 1907z	19 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	2104 - 2105z	19 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	2210 - 2211z	19 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1518 - 1519z	20 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	1716 - 1717z	20 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	1217 - 1218z	21 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	1107 - 1108z	22 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	1327 - 1328z	22 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI

	2024 - 2025z	22 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	1337 - 1338z	24 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	1729 - 1730z	24 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	2105 - 2106z	24 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	1139 - 1140z	25 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1440 - 1441z	25 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1630 - 1631z	25 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1154 - 1155z	26 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
(4512 only)	1751 - 1752z	26 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Philippines)	JPL	TUE
(4512 only)	0934 - 0935z	28 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	1150 - 1151z	28 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	1950 - 1951z	28 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
(3797 only)	1207 - 1208z	29 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
(4512 only)	1305 - 1306z	30 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
(4512 only)	1852 - 1853z	30 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
(4512 only)	2153 - 2154z	30 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
	1311 - 1312z	31 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	1928 - 1929z	31 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN

4225//5500

(5500 only)	1334 - 1335z	02 Mar	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
(5500 only)	1435 - 1436z	02 Mar	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
(5500 only)	0302 - 0303z	03 Mar	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
(5500 only)	1219 - 1220z	03 Mar	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
(5500 only)	1341 - 1342z	03 Mar	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	2107 - 2108z	03 Mar	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	2115 - 2119z	03 Mar	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
			(In tfc - 2115z) COMM B T 0671/.540/Z70/6926 AR (Return to R/S) (2116z)		
	2255 - 2256z	03 Mar	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	1110 - 1111z	04 Mar	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1930 - 1931z	04 Mar	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	2232 - 2233z	04 Mar	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1158 - 1204z	05 Mar	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1344 - 1345z	05 Mar	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1552 - 1553z	05 Mar	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1731 - 1732z	05 Mar	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1840 - 1841z	05 Mar	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1929 - 1930z	05 Mar	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	2127 - 2128z	05 Mar	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	2225 - 2226z	05 Mar	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
(5500 only)	1226 - 1227z	06 Mar	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
(5500 only)	1630 - 1631z	06 Mar	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
(5500 only)	2325 - 2326z	06 Mar	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
(5500 only)	1125 - 1126z	07 Mar	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
(4225 only)	1707 - 1708z	07 Mar	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
(4225 only)	2028 - 2029z	07 Mar	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	1047 - 1048z	11 Mar	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1349 - 1350z	11 Mar	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	2008 - 2009z	11 Mar	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	2259 - 2300z	11 Mar	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	0932 - 0950z	12 Mar	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1333 - 1334z	12 Mar	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
(5500 only)	1402 - 1406z	12 Mar	(In tfc) V 7NPE (x3) DE QV5B (x2)(Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
			(In tfc – handsent – 1402z) 22weeeee *VV UGT COMM* BT 0745/22U EEEE *UGT COMM* BT 0745/2230/M37/6820 AR (Return to R/S 1404z)		
	1551 - 1552z	12 Mar	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
(5500 only)	1840 - 1841z	12 Mar	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1913 - 1914z	13 Mar	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	2254 - 2255z	13 Mar	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
(5500 only)	1708 - 1709z	16 Mar	V 7NPE (x3) DE **QST5B** (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
			Note: Appears to be having problems with R/S. QV5B is being sent as QST5B		
(5500 only)	1900 - 1902z	17 Mar	V 7NPE (x3) DE QST5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
			Note: Very weak. I can tell it's the QV5B R/S, but it seems to be quite garbled. Too weak to really tell.		
	2130 - 2132z	17 Mar	V 7NPE (x3) DE QST5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
			Note: Both signals very weak. I can tell it's the QV5B R/S, but it seems to be quite garbled. Too weak to really tell.		
	1005 - 1006z	18 Mar	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1103 - 1104z	18 Mar	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1748 - 1749z	18 Mar	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	2014 - 2015z	18 Mar	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1114 - 1115z	19 Mar	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
(5500 only)	1902 - 1903z	19 Mar	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
(5500 only)	2100 - 2001z	19 Mar	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
(5500 only)	2206 - 2207z	19 Mar	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1514 - 1515z	20 Mar	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
(5500 only)	1712 - 1713z	20 Mar	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
			Note: Back on 24 Mar after a 3 day absence.		
	1725 - 1726z	24 Mar	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	2101 - 2102z	24 Mar	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
			Note: Having problems 25 Mar with R/S on 5500		
	1135 - 1136z	25 Mar	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON

(4225 only)	1436 - 1437z	25 Mar	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1626 - 1627z	25 Mar	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1150 - 1151z	26 Mar	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1747 - 1748z	26 Mar	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Philippines)	JPL	TUE
	1304 - 1305z	31 Mar	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	1926 - 1927z	31 Mar	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	2249 - 2250z	31 Mar	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
4474//NRH	**Note: By far, the hardest M89 station to hear.**				
	1824 - 1825z	08 Mar	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Finland)	JPL	FRI
	1824 - 1825z	11 Mar	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Finland)	JPL	MON
	2303 - 2304z	13 Mar	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Russia)	JPL	WED
	2329 - 2330z	14 Mar	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Russia)	JPL	THU
	2252 - 2253z	15 Mar	V RXP7 (x3) DE CZT2 (x2) (Cont'd)(Remote Tuner Poland)	JPL	FRI
	2029 - 2030z	18 Mar	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Finland)	JPL	MON
	0026 - 0027z	19 Mar	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Russia)	JPL	TUE
	2217 - 2219z	19 Mar	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Russia)	JPL	TUE
	1914 - 1915z	21 Mar	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	THU
	2317 - 2318z	23 Mar	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	SAT
	1535 - 1536z	24 Mar	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	SUN
	2009 - 2010z	26 Mar	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	TUE
4474//5583	2318 - 2319z	26 Mar	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Russia)	JPL	TUE
	1845 - 1846z	30 Mar	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	SAT
4590//7607					
(4590 only)	1632 - 1633z	06 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
(4590 only)	2104 - 2105z	06 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	1233 - 1234z	12 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1335 - 1336z	12 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1553 - 1554z	12 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1842 - 1843z	12 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1117 - 1118z	19 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
(4590 only)	1904 - 1905z	19 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
(4590 only)	2102 - 2103z	19 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
(4590 only)	2208 - 2209z	19 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1325 - 1326z	22 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	2022 - 2023z	22 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
(4590 only)	1259 - 1330z	24 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
(4590 only)	1538 - 1539z	24 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Siberia)	JPL	SUN
	1727 - 1728z	24 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) ((Remote Tuner Hong Kong)	JPL	SUN
(4590 only)	2103 - 2104z	24 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
(4590 only)	1205 - 1206z	29 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
(4590 only)	2006 - 2007z	29 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
4860// 6840	1320 - 1325z	02 Mar	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	SAT
(4860 only)	2120 - 2125z	03 Mar	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	SUN
	2320 - 2325z	03 Mar	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	SUN
	1120 - 1125z	04 Mar	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	MON
	1220 - 1225z	05 Mar	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	TUE
(4860 only)	2220 - 2225z	05 Mar	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	TUE
	1624 - 1629z	06 Mar	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	WED
			Note: Four minutes late, which is unusual. Operator error?		
	1720 - 1725z	06 Mar	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	WED
	1820 - 1825z	06 Mar	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	WED
	2120 - 2125z	06 Mar	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	WED
	2320 - 2325z	06 Mar	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	WED
	1120 - 1125z	07 Mar	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	THU
	1720 - 1725z	07 Mar	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	THU
	1120 - 1125z	08 Mar	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	FRI
	1920 - 1925z	08 Mar	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	FRI
	1120 - 1125z	11 Mar	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	MON
	2020 - 2025z	11 Mar	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	MON
	2320 - 2325z	11 Mar	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	MON
	1920 - 1925z	12 Mar	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	TUE
	1520 - 1525z	13 Mar	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	WED
	1620 - 1625z	13 Mar	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	WED
	1920 - 1925z	13 Mar	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	WED
	2220 - 2225z	14 Mar	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	THU
	1220 - 1225z	15 Mar	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	FRI
	2020 - 2025z	15 Mar	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	FRI
	1720 - 1725z	16 Mar	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	SAT
	0020 - 0025z	17 Mar	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	SUN
	1920 - 1925z	17 Mar	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	SUN
	2023 - 2028z	18 Mar	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	MON
	0020 - 0025z	19 Mar	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	TUE
	1120 - 1125z	19 Mar	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	TUE
	2220 - 2225z	19 Mar	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	TUE
	1220 - 1225z	21 Mar	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	THU
	2220 - 2225z	21 Mar	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	THU
	2120 - 2125z	22 Mar	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	FRI
(6840 only)	2320 - 2325z	23 Mar	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Siberia)	JPL	SAT
(6840 only)	1720 - 1725z	24 Mar	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Siberia)	JPL	SUN

(4860 only)	1120 - 1125z	25 Mar	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	MON
(4860 only)	1620 - 1625z	25 Mar	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	MON
	2020 - 2025z	26 Mar	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Philippines)	JPL	TUE
	1320 - 1325z	31 Mar	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	SUN
	1920 - 1925z	31 Mar	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	SUN

4885//5583 **Note: Another new frequency for CZT2 - 4885**

1918 - 1919z	27 Mar	V RXP7 (x3) DE CZT2 (x2) (Cont'd)(Remote Tuner Siberia)	JPL	WED
2006 - 2007z	27 Mar	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	WED

5230//NRH	1518 - 1519z	13 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	WED
	1629 - 1630z	13 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	WED
	1611 - 1612z	27 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	WED

5230//5326 **Note: New frequency for 3A7D - 5326**

2117 - 2118z	27 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	WED

5583//NRH **Note: New frequencies for CZT2 - 5583 10418 & 10518** **SDR radio make it so easy to find stations!!!**

2033 - 2034z	22 Mar	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	FRI
1708 - 1709z	24 Mar	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	SUN
2111 - 2112z	24 Mar	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	SUN
1602 - 1603z	27 Mar	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	WED
1652 - 1653z	29 Mar	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	FRI
2002 - 2003z	29 Mar	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	FRI
1556 - 1557z	30 Mar	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	SAT
1933 - 1934z	31 Mar	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	SUN

5588//NRH	1126 - 1130z	04 Mar	(In tfc) V MW3D (x3) DE 2SLC (x2)(Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1207 - 1208z	05 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1225 - 1256z	05 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE

MSG NR 019 CK 301 44 0305 2030 BT (1228z) **74N3 D567 45T3 A7T4 635N NU3NT37D6 N476 TT66 TTT6 7T4U** (Cont'd) BT 3T4U (1241z)
MSG NR 019 CK 301 44 0305 2030 BT (1242z) **74N3 D567 45T3 A7T4 635N NU3NT37D6 N476 TT66 TTT6 7T4U DA6N 7UTN** (Cont'd) BT .... (Return to R/S – 1254z)

1342 - 1343z	05 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
1449 - 1450z	05 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
1551 - 1552z	05 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
2305 - 2330z	05 Mar	(In tfc) V MW3D (x3) DE 2SLC (x2)(Cont'd) (Remote Tuner Hong Kong)	JPL	TUE

(In tfc – 2306z) 453U A64T 536A NUAD TA37 5TU4 (Cont'd) BT 3T4U (2313z)
MSG NR 020 CK 301 44 0306 0700 BT **74N3 D5.7 45T3 A7T4 635N NU3NT37D6 N476 TT66 TTT6 7T4U DA6N 7UTN U3TT** Cont'd)

(This is interesting – *Msg 020 is identical to msg 019* which was sent at 1228z and repeated at 1242z)

BT 3T4U (2326z)(Return to R/S)

2300 - 2319z	06 Mar	(Into tfc - Probably 2SLC) (Remote Tuner Hong Kong)	JPL	WED

(QSY from 3330 – 2300z) *MSG NR 024 CK 301 44 0307 0700 BT*
A7D5 6UA5 4ADT 54NT 65AT 763T 7N36 U456 TT66 TTTU 5NT4 (Cont'd – Groups sent without spaces and much faster than usual - 2301z)
BT 36AU (2309z) (Silent) (Normally repeats msg and returns to R/S)

1132 - 1146z	07 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
2257 - 2359z	07 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
1131 - 1132z	08 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI

(In tfc – 1133z – Just my luck – decides to go into tfc when I get up to get my morning cup of coffee...)
Continued 6743 UNAD N537 U65U UT6N 7NUA T653 U5AN (Cont'd II BT 3T4U (1142z) *MSG NR 031 CK 301 44 0308 0930 BT*
74N3 D576 45T3 A7T4 635N U3NT 37D6 N476 TT66 TTT6 7T4U DA6N 74TN UIUATA6DU
6743 UNAD N537 U65U UT6N 7NUA A653 U5AN 54N7 (Cont'd – slowed down sending speed– repeat of above msg - 1144z) II BT 3T4U (1154z) (Silent)

(*Another surprise* – This msg appears to be the same as msg nr 020 which was sent at 2313z on 5 Mar)

.. QSY QSY DE .. (2SLC QSY to night freq of 3330 – 1257z)

(After looking at previous messages sent by Q7NW and comparing the format of messages being sent by 2SLC, I'm now more convinced that Q7NW has changed his call sign to 2SLC as well as changed freqs.

Q7NW messages had the same format as 2SLCMSG NR XXX CK 301 44 XXXX XXXX BT.

When sending COMM messages, Q7NW format was CQ 63 RMKS XXXX TO XXXX .....

COMMS AAS - refer to yesterday's COMM msg sent by 2SLC and you'll see the same format)

1038 - 1046z	11 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
1056 - 1100z	11 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON

CQ 63 1489 T..... COMM AAES 66 5175/1286/2000/117NR/2819 AR BT BT BT 65175/1286/2000/117NR BT EEE BT BT
65175/1286/2000/117NR/2819 AR AR (Return to R/S briefly, then QSY to 3330 - 1200z)

0930 - 0931z	12 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
1519 - 1520z	13 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
2259 - 2300z	13 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
1038 - 1039z	14 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
1043 - 1046z	14 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU

(In tfc – handsent - 1043z) 75/2000/610NR/2819 AR BT 65175/2000/610NR/2819 AR (Return to R/S 1044z)

	1208 - 1216z	15 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	1000 - 1001z	16 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
	1124 - 1135z	16 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
	0943 - 0959z	18 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1101 - 1102z	18 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	0915 - 0919z	20 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	1119 - 1135z	21 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	1225 - 1255z	21 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	2327 - 2359z	22 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	0929 - 0930z	23 Mar	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
5763//8789					
(5763 only)	2301 - 2302z	11 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	0926 - 0927z	12 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
5801//10180	1229 - 1230z	03 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	SUN
	1114 - 1115z	04 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	MON
	1210 - 1211z	05 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	TUE
(10180 only)	0325 - 0326z	06 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Russia)	JPL	WED
	1230 - 1231z	06 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Russia)	JPL	WED
	1131 - 1132z	07 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Russia)	JPL	THU
	1130 - 1131z	08 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	FRI
	1234 - 1235z	12 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	TUE
(10180 only)	1042 - 1043z	14 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	THU
(10180 only)	1159 - 1200z	14 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	THU
	1204 - 1205z	15 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	FRI
(10180 only)	0959 - 1000z	16 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	SAT
(10180 only)	1108 - 1109z	18 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	MON
(10180 only)	1228 - 1229z	19 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	TUE
(10180 only)	0308 - 0309z	22 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	FRI
(10180 only)	1110 - 1111z	22 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	FRI
(10180 only)	0707 - 0708z	24 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	SUN
(10180 only)	1141 - 1142z	25 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	MON
(10180 only)	0517 - 0518z	26 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	TUE
	1200 - 1201z	26 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	TUE
(10180 only)	0155 - 0156z	27 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	WED
(10180 only)	0957 - 0958z	27 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	WED
	0212 - 0213z	28 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	THU
(10180 only)	0932 - 0933z	28 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	THU
	1151 - 1152z	28 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	THU
	0236 - 0237z	30 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	SAT
(10180 only)	0919 - 0920z	30 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	SAT
	1045 - 1046z	31 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	SUN
	1307 - 1308z	31 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	SUN
5818//NRH	1306 - 1320z	21 Mar	V K9GH (x3) DE M2ZF (x2) (Cont'd)(Remote Tuner Siberia)	JPL	THU

(1306z) (In tfc) 616 T471 56DU 7A64 T3TN (Cont"d) R (1307z)
(Did repeat of groups missed by other station - Other station on same freq, but very weak)
R QSL 1110 K R GA .. NR 084. CK 99 .. 032. ... BT (To weak to copy) QSL 211. HR WK NR 39 K R QSL 2115 HR WK NR 39 K R ..
(1318z) 17 CR HR NIL K SK (1318z - Silent)

V K9GH (x3) DE M2ZF (x2) (Cont'd) (1320z) (New M89 Station!!!)
(This appears to be a new set of call signs, as I was not able to find any previous M89 reference to them)

6773//8040					
(6773 only)	2329 - 2330z	06 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
(6773 only)	2250 - 2251z	15 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	0010 - 0011z	17 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
(6773 only)	0913 - 0914z	20 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
(6773 only)	2253 - 2254z	31 Mar	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
6840//10640	0320 - 0325z	03 Mar	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	SUN
	1220 - 1225z	03 Mar	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	SUN
(6840 only)	0420 - 0425z	04 Mar	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	MON
	0320 - 0325z	06 Mar	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	WED
	0920 - 0925z	12 Mar	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	TUE
	0220 - 0225z	14 Mar	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	THU
	0920 - 0925z	20 Mar	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	WED
	1720 - 1725z	20 Mar	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	WED
7582//8110	0405 - 0406z	04 Mar	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	0536 - 0537z	05 Mar	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	0309 - 0310z	06 Mar	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
(7582 only)	1457 - 1458z	08 Mar	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
(7582 only)	1908 - 1909z	08 Mar	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	0117 - 0118z	12 Mar	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	0925 - 0926z	12 Mar	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1516 - 1516z	13 Mar	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	1625 - 1626z	13 Mar	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	0208 - 0209z	14 Mar	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	1036 - 1037z	14 Mar	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU

(7582 only)	1628 - 1636z	15 Mar	(In tfc) (Remote Tuner Hong Kong)	JPL	FRI
			(In tfc – 1628z) AA7T 75TN DD34 A754 TA7A 3DNS3 A36. (Cont'd) (Checked to see if // 8110 – N/H) II BT 3D67 AR (Silent - 1631z)		
(7582 only)	0006 - 0007z	17 Mar	V 7NPE (x3) DE **QST5B** (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
			Note: Still having R/S problems *(See 4225//5500 log 16 Mar)*		
	0936 - 0937z	18 Mar	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
			Note: R/S back to normal		
	0013 - 0014z	19 Mar	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	0441 - 0442z	19 Mar	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
(8110 only)	0910 - 0911z	20 Mar	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	0600 - 0601z	26 Mar	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Siberia)	JPL	TUE
7602//NRH	1654 - 1655z	29 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	FRI
	2004 - 2005z	29 Mar	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	FRI
7607//NRH	1205 - 1206z	05 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1227 - 1228z	06 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	1155 - 1156z	14 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	1840 - 1841z	14 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	2218 - 2219z	14 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	1202 - 1203z	15 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	1640 - 1641z	15 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	1909 - 1910z	15 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	2016 - 2017z	15 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	2248 - 2249z	15 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	1713 - 1714z	16 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
	1137 - 1138z	25 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1438 - 1439z	25 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1628 - 1629z	25 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1913 - 1914z	25 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Siberia)	JPL	MON
	1149 - 1150z	28 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	1947 - 1948z	28 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	1307 - 1308z	30 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
	1315 - 1322z	30 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
			(In tfc – 1315z) NW SVC GA NR 11 WS VV HR VC GA NR 120 2115 RMKS .3.4 TO 2849/2354 BT COMM /2200/LZ441.4/2374/2849 AR AGN NR 120 2115 RMKS 2.7. TO ..48/2354 BT COMM/2200/LZ44164/2374/2354 AR QSL ? HR WK NR 17 (Return to R/S – 1317z)		
	1854 - 1855z	30 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
	2151 - 2152z	30 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
	1306 - 1307z	31 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	1927 - 1928z	31 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	2251 - 2252z	31 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
8789//10779					
(10779 only)	0304 - 0305z	03 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
(10779 only)	0311 - 0312z	06 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
(8789 only)	2327 - 2328z	06 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
(10779 only)	0126 - 0127z	07 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	1039 - 1040z	14 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	0954 - 0955z	16 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
(8789 only)	0008 - 0009z	17 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	0938 - 0939z	18 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1105 - 1106z	18 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	0014 - 0015z	19 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	0911 - 0912z	20 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
(10779 only)	0304 - 0305z	22 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	0935 - 0926z	23 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
(10779 only)	0507 - 0508z	26 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Siberia)	JPL	TUE
(10779 only)	1152 - 1153z	26 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
(10779 only)	1749 - 1750z	26 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Philippines)	JPL	TUE
(10779 only)	0210 - 0211z	28 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Siberia)	JPL	THU
	0917 - 0018z	28 Mar	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
10321//NRH	**Note: Another new frequency for CZT2. Was previously found on 5583, 10518, & 10418**				
	0246 - 0247z	30 Mar	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	SAT
	0922 - 0923z	30 Mar	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	SAT
	1310 - 1311z	30 Mar	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
	1428 - 1429z	30 Mar	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	SAT
10418//NRH	**Note: Another new frequency for CZT2. Was previously found on 10518**				
	0714 - 0715z	24 Mar	V RXP7 (x3) DE CZT2 (x2) (Cont'd)(Remote Tuner Siberia)	JPL	SUN
10518//NRH	**Note: New frequencies for CZT2 - 5583 & 10518 10518 originally found by Mauro in Northern Italy**				
	0311 - 0312z	22 Mar	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	FRI
	1528 - 1529z	23 Mar	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	SAT
	1205 - 1206z	25 Mar	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	MON
	1444 - 1445z	25 Mar	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
11321//NRH	**Note: Yet another new frequency for CZT2. Was previously found on 5583, 10518, & 10418, 10321**				
	1330 - 1331z	31 Mar	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	SUN

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

3330//NRH	1314 - 1319z	01 Apr	V 8CPZ (x3) DE XW6W (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1701 - 1702z	01 Apr	V 8CPZ (x3) DE XW6W (x2) (Cont'd) (Remote Tuner Siberia)	JPL	MON
	1954 - 1955z	01 Apr	V 8CPZ (x3) DE XW6W (x2) (Cont'd) (Remote Tuner Siberia)	JPL	MON
	1228 - 1229z	02 Apr	V 8CPZ (x3) DE XW6W (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1519 - 1520z	02 Apr	V 8CPZ (x3) DE XW6W (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	2134 - 2135z	02 Apr	V 8CPZ (x3) DE XW6W (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1630 - 1631z	03 Apr	V 8CPZ (x3) DE XW6W (x2) (Cont'd) (Remote Tuner Philippines)	JPL	WED
	2036 - 2037z	03 Apr	V 8CPZ (x3) DE XW6W (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	1628 - 1630z	08 Apr	V 8CPZ (x3) DE XW6W (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1414 - 1415z	09 Apr	V 8CPZ (x3) DE XW6W (x2) (Cont'd) (Remote Tuner Siberia)	JPL	TUE
	2042 - 2043z	09 Apr	V 8CPZ (x3) DE XW6W (x2) (Cont'd) (Remote Tuner Siberia)	JPL	TUE
	1228 - 1233z	11 Apr	V 8CPZ (x3) DE XW6W (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
			(In tfc – 1228z) 707/7.0/2100/23../D 615. AR BT 67.07/0.9./2100/23.6 NR/615. AR BT 6.07/PT7970/2100/237NR/6157 AR (Return to R/S – Hand sent – 1231z)		
	1644 - 1710z	12 Apr	(In tfc - probably XW6W) (Remote Tuner Hong Kong)	JPL	FRI
		(1644z)	(In tfc) T346 4TD6 T54D 75D3 5763 (Cont'd) II BT *5465* (Silent - 1646z) *MSG NR 049 CK 301 44 0413 0030 BT* (1650z)		
		(1702z)	UAN6 N674 45A3 6464 D.U7 U7.. 5N3A 5635 TT64 TTT3 (Cont'd – 1651z) II BT *5465* (Silent - 1702z)		
	1715 - 1719z	12 Apr	V 8CPZ (x3) DE XW6W (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	2208 - 2212z	14 Apr	(In tfc - probably XW6W) (Remote Tuner Siberia)	JPL	SUN
	1400 - 1404z	15 Apr	V 8CPZ (x3) DE XW6W (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
		(1400z)	7/1031/2230/237NR/6157 AR BT 67807/1031/2230/237NR/6157 AR BT 67807/1031/2230/237NR/6157 AR (Return to R/S – 1401z)		
	2018 - 2019z	15 Apr	V 8CPZ (x3) DE XW6W (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
			Note: 2SLC is back!		
	1410 - 1411z	16 Apr	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1944 - 1945z	16 Apr	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1056 - 1100z	17 Apr	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	1759 - 1800z	17 Apr	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	0651 - 1652z	18 Apr	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	1210 - 1211z	23 Apr	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1551 - 1552z	24 Apr	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	2138 - 2139z	24 Apr	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	1725 - 1726z	25 Apr	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	2026 - 2027z	25 Apr	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	1314 - 1315z	26 Apr	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	1532 - 1533z	26 Apr	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	1912 - 1913z	26 Apr	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	2049 - 2050z	27 Apr	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
	1113 - 1114z	28 Apr	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	1330 - 1331z	28 Apr	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	2053 - 2054z	28 Apr	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
3642//NRH	2132 - 2133z	02 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	TUE
	2034 - 2035z	03 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	WED
3642//5230	1312 - 1313z	01 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	MON
(5230 only)	1637 - 1638z	01 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Russia)	JPL	MON
	1952 - 1953z	01 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	MON
	1321 - 1322z	08 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	MON
(5230 only)	2316 - 2317z	11 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	THU
	1925 - 1926z	12 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	FRI
(5230 only)	1710 - 1711z	12 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	FRI
	1400 - 1401z	13 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	SAT
	1625 - 1626z	13 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	S
	1656 - 1657z	13 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	SAT
	2223 - 2224z	14 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	SUN
	1421 - 1422z	17 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	WED
	2004 - 2005z	17 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	WED
	1653 - 1654z	18 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	THU
	1338 - 1339z	19 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	FRI
	1631 - 1632z	19 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	FRI
	1617 - 1618z	22 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	MON
	2050 - 2051z	23 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Tuner Siberia)	JPL	TUE
	1718 - 1719z	24 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	WED
	1320 - 1321z	26 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	FRI
	1534 - 1535z	26 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	FRI
	1334 - 1335z	28 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	SUN
	1748 - 1749z	28 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	SUN
	2052 - 2053z	28 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	SUN
3642//7506//7698	**Note: New frequencies for 3A7D - 7506 may be a spurious emission.**				
(7506//7698 only)	1859 - 1900z	21 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	SUN
	1910 - 1911z	21 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	SUN
3642//7602					
(7602 only)	1920z	03 Apr	[V DKG6 DKG6 DKG6 de 3A7D 3A7D] Weak signal	FN	WED
	1412 - 1413z	09 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	TUE
	1556 - 1557z	09 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Sweden)	JPL	TUE
	2037 - 2038z	09 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	TUE
	2026 - 2027z	15 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	MON
(3642 only)	1428 - 1433z	16 Apr	V DKG6 DE 3A7D, fair (Remote Siberia)	JkC	TUE

(7602 only)	1924z	25 Apr	[V DKG6 DKG6 DKG6 de 3A7D 3A7D 3A7D]	FN	THU
	2052 - 2053z	27 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	SAT
3725//4590					
(3725 only)	1732 - 1733z	25 Apr	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
(3725 only)	1735 - 1736z	25 Apr	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Finland)	JPL	THU
	2018 - 2019z	25 Apr	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
3725//7607	1231 - 1232z	02 Apr	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1517 - 1518z	02 Apr	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	2128 - 2129z	02 Apr	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1752 - 1753z	08 Apr	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Siberia)	JPL	MON
3797//4512	1300 - 1309z	01 Apr	(In tfc) V H2FL (x3) DE DRV8 (x2)(Cont'd) (Remote Tuner Hong Kong)	JPL	MON
			(In tfc – hand sent – 1300z) /3198/3111/04/01/2130/887/A/7/88/85/56 AR UGT COMM BT 234/3828/3193/3198/3111/04/01/2130/887/A/7/88/85/56 AR UGT COMM BT 234/3828/3220/3218/04/01/2130/856/A/57/56/59 AR UGT COMM BT 234/3828/3220/3218/04/01/2130/856/A/57/56/59 AR UGT COMM BT 234/3828/3220/3218/04/01/2130/856/A/57/56/59 AR (1304z) (Return to R/S – 1304z)		
	1309 - 1310z	01 Apr	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
(4512 only)	1956 - 1957z	01 Apr	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	MON
(4512 only)	1037 - 1038z	02 Apr	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1233 - 1234z	02 Apr	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1518 - 1519z	02 Apr	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	2130 - 2131z	02 Apr	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1028 - 1029z	03 Apr	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
(4512 only)	1628 - 1629z	03 Apr	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Philippines)	JPL	WED
	2032 - 2033z	03 Apr	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
(4512 only)	1055 - 1056z	08 Apr	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	2041 - 2042z	09 Apr	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
(4512 only)	1041 - 1042z	10 Apr	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
(4512 only)	1236 - 1237z	11 Apr	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
(4512 only)	1029 - 1030z	12 Apr	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	1643 - 1644z	12 Apr	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
(4512 only)	1652 - 1653z	13 Apr	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
(4512 only)	1954 - 1955z	13 Apr	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
(4512 only)	1652 - 1653z	14 Apr	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
(4512 only)	1359 - 1400z	15 Apr	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
(4512 only)	2017 - 2018z	15 Apr	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
(3797 only)	1408 - 1409z	16 Apr	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
(3797 only)	1943 - 1944z	16 Apr	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
(3797 only)	1413 - 1414z	17 Apr	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
(3797 only)	1758 - 1759z	17 Apr	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
(3797 only)	1649 - 1650z	18 Apr	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	1328 - 1329z	19 Apr	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	1630 - 1631z	19 Apr	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	1145 - 1146z	23 Apr	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1549 - 1550z	24 Apr	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	2140 - 2141z	24 Apr	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	1726 - 1727z	25 Apr	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	2027 - 2028z	25 Apr	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	1255 - 1310z	26 Apr	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
			UGT COMM BT 234/.8.8/3119/3122/../2./21.0/88/.. AR (1256z) 57/88/85 AR UGT COMM BT 234/.828/3119/3112/04/26.213./888/A.57/88/?. UGT COMM BT 234/3828/3119/3112/04/26/213./888/A/.88/. AR /3114/0./26/.139/.887/A/.7/56/5. AR UGT COMM BT 234/.828/3111/3..4..4/./2..0..87/A/57/5./.9 AR UGT COMM BT 234/38.8/3111/3..4/04.26..12./../A/5./5./5. AR (Return to R/S – 1303z) UGT COMM BT .../382..04.26/3..5.888/.. ar (1304z) UGT COMM BT 2.4. 195/3.2./04/2./2135/88./A/59/57 AR UGT COMM BT 23./3A.5/3..8/../2./../888/A/59/57 AR (Return to R/S – 1307z)		
	1530 - 1531z	26 Apr	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	1914 - 1915z	26 Apr	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	2044 - 2045z	27 Apr	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
(4512 only)	1113 - 1114z	28 Apr	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	1326 - 1329z	28 Apr	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
			(In tfc – 1326z) 3828/04/../215./851/A/85/57 AR UGT COMM BT 234/344./3828/04/2./2155/851/A/85/5. AR (Return to R/S – 1327z)		
(4512 only)	2047 - 2048z	28 Apr	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
4225//5500	1255 - 1256z	01 Apr	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1034 - 1035z	02 Apr	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1229 - 1230z	02 Apr	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1515 - 1516z	02 Apr	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	2126 - 2127z	02 Apr	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
(5500 only)	1026 - 1027z	03 Apr	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
(5500 only)	1626 - 1627z	03 Apr	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Philippines)	JPL	WED
(5500 only)	2028 - 2029z	03 Apr	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	1053 - 1054z	08 Apr	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	2035 - 2036z	09 Apr	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	2205 - 2206z	14 Apr	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	1355 - 1356z	15 Apr	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	2015 - 2016z	15 Apr	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1403 - 1404z	16 Apr	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1940 - 1941z	16 Apr	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
(5500 only)	1139 - 1140z	23 Apr	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE

Note: Over the last few months, have noticed that QV5B is not heard on his known frequencies for 3 or more days in a row.

(5500 only)	1111 - 1112z	28 Apr	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	2045 - 2046z	28 Apr	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
4446//5566	Note: **CZT2** call sign has been changed to **CZT3**. This is also a new frequency for this station.				
(5566 only)	1614 - 1615z	22 Apr	V RXP7 (x3) DE **CZT3** (x2) (Cont'd) (Remote Tuner Siberia)	JPL	MON
	2013 - 2014z	23 Apr	V RXP7 (x3) DE CZT3 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	TUE
4474//NRH	1410 - 1411z	09 Apr	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	TUE
	1507 - 1508z	16 Apr	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	TUE
4474//5583					
(4474 only)	1643 - 1644z	01 Apr	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Russia)	JPL	MON
(5583 only)	1703 - 1704z	01 Apr	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	MON
	1958 - 1959z	01 Apr	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	MON
	1958 - 1959z	01 Apr	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	MON
	2229 - 2230z	02 Apr	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	TUE
	1324 - 1325z	08 Apr	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	MON
	2330 - 2331z	10 Apr	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	WED
	2308 - 2309z	11 Apr	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	THU
	1404 - 1405z	12 Apr	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	FRI
			Note: New set of call signs!		
	1912 - 1915z	12 Apr	**V FT7Y (x3) DE UE3G** (x2) (Cont'd) (Remote Tuner Siberia)	JPL	FRI
	1358 - 1359z	13 Apr	V FT7Y (x3) DE UE3G (x2) (Cont'd) (Remote Tuner Siberia)	JPL	SAT
	2032 - 2033z	15 Apr	V FT7Y (x3) DE UE3G (x2) (Cont'd) (Remote Tuner Siberia)	JPL	MON
	1422 - 1423z	17 Apr	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (//5583) (Wed) (Remote Tuner Siberia)	JPL	
	2003 - 2004z	17 Apr	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (//5583) (Wed) (Remote Tuner Siberia)	JPL	
4474//10518					
(10518 only)	1147 - 1148z	14 Apr	V FT7Y (x3) DE UE3G (x2) (Cont'd) (Remote Tuner Siberia)	JPL	SUN
	2227 - 2228z	14 Apr	V FT7Y (x3) DE UE3G (x2) (Cont'd) (Remote Tuner Siberia)	JPL	SUN
(10518 only)	1002 - 1003z	28 Apr	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	SUN
(10518 only)	1338 - 1339z	28 Apr	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	SUN
(4474 only)	1751 - 1752z	28 Apr	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	SUN
	1810 - 1811z	28 Apr	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	SUN
	2101 - 2102z	28 Apr	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	SUN
4474//10998	**Note: CZT2 on another new frequency!**				
(10998 only)	1005 - 1006z	18 Apr	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	THU
(10998 only)	1122 - 1123z	20 Apr	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	SAT
(10998 only)	1044 - 1045z	21 Apr	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	SUN
	1848 - 1849z	21 Apr	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	SUN
4590//7607					
(4590 only)	1258 - 1259z	01 Apr	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1630 - 1631z	03 Apr	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Philippines)	JPL	WED
	2030 - 2031z	03 Apr	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
(4590 only)	2039 - 2040z	09 Apr	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Hong Kong)	JPL	TUE
(7607 only)	1113 - 1114z	10 Apr	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Siberia)	JPL	WED
	1529 - 1540z	10 Apr	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Siberia)	JPL	WED
	(In tfc – 1530z) .... 2330 RMKS 1478 TO 052. 0868 0839 0851 02.8 0808 0398 0698 1474 1498 .497 0529 0869 BT 357N UN3 U.B3 356T T3UD 67A3 (Cont'd – 1532z) (Uses ? when a mistake is made) AR QSL ? HR WK NR 4 FM (1536z) HR WK NR 4 8 (1537z) (Return to R/S (1538z)				
	1234 - 1235z	11 Apr	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	1642 - 1643z	12 Apr	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
(4590 only)	1654 - 1655z	13 Apr	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
(4590 only)	1952 - 1953z	13 Apr	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
	1647 - 1648z	18 Apr	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
(4590 only)	2144 - 2145z	24 Apr	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	2046 - 2047z	27 Apr	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
(4590 only)	1332 - 1333z	28 Apr	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	2049 - 2050z	28 Apr	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
4860// 6840	1620 - 1625z	03 Apr	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Philippines)	JPL	WED
(6840 only)	1923z	03 Apr	[VVV Q2M Q2M Q2M de NYZ NYZ]	FN	WED
(6840 only)	1520 - 1525z	10 Apr	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Siberia)	JPL	WED
	1720 - 1725z	12 Apr	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Siberia)	JPL	FRI
(6840 only)	1620 - 1625z	13 Apr	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Siberia)	JPL	SAT
	2020 - 2025z	15 Apr	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	MON
	1720 - 1725z	24 Apr	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	WED
(6840 only)	1922z	25 Apr	[VVV Q2M Q2M Q2M de NYZ NYZ]	FN	THU
	2020 - 2025z	25 Apr	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	THU
	1320 - 1325z	28 Apr	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	SUN
5230//7602	1729 - 1730z	25 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	THU
(7602 only)	1736 - 1737z	25 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Finland)	JPL	THU
	2025 - 2026z	25 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	THU
5588//NRH	0957 - 1034z	02 Apr	V 8CPZ (x3) DE XW6W (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
		(1003z)	*MSG NR 008 CK 301 44 0402 1800 BT *(1003z) AU5T ATU3 UN34 AT64 D63N 6DN4 T737D TTTT65 TTTU (Cont'd – First groups all bunched together – very fast) II BT *UTNA* AR (1014z - Silent)		
		(1032z)	*MSG NR 008 CK 301 44 0402 1800 BT* (1020z) .... UN34 AT64 DT53 N66N4T 737D TTT64 TTTU 7N6T 57AU IIBT *UTNA* AR		

	1030 - 1105z	03 Apr	V 8CPZ (x3) DE XW6W (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	0953 - 1053z	08 Apr	V 8CPZ (x3) DE XW6W (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	(1027z)	*MSG NR 032 CK 301 44 0408 1830 BT * UAN6 N674 45A3 6464 DNU7 U7AD 5N3A 563T TT64 TTT3 DNAT 7N63 (Cont'd) II BT *5465*			
	(1052z)	*MSG NR 032 CK 301 44 0409 1830* BT UAN6 N674 45A3 6464 DNU7 U7AD 5N3A 563T TT64 TTT3 DNAT 7N63 7UT6 (Cont'd) II BT *546			
	0937 - 1014z	09 Apr	V 8CPZ (x3) DE XW6W (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1019 - 1036z	10 Apr	V 8CPZ (x3) DE XW6W (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	(1019z)	(In tfc – Running groups together) 6T54 DNT6 N536 43AT (Cont'd) II BT *5465 *(Return to R/S – 1029z)			
	0933 - 0934z	11 Apr	V 8CPZ (x3) DE XW6W (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	1008 - 1035z	11 Apr	V 8CPZ (x3) DE XW6W (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	1013 - 1026z	12 Apr	V 8CPZ (x3) DE XW6W (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	(In tfc – 1012z)	AN43 3UN3 UAN7 37N3 DU7T 3656 4N75 (Cont'd) II BT* 5465* (Return to R/S 1024z)			
	1659 - 1700z	13 Apr	V 8CPZ (x3) DE XW6W (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
	1949 - 1950z	13 Apr	V 8CPZ (x3) DE XW6W (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
	0933 - 0934z	15 Apr	V 8CPZ (x3) DE XW6W (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	0934 - 1055z	17 Apr	**V MW3D (x3) DE 2SLC** (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	0937 - 1008z	19 Apr	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	VV EEE GA GA CQ D. 9567 TO 1769/6157//EEEE T M BT BT (Hand sent - 1000z) 6780..17 ...117NT/.567 AR BT BT 6807/.769/.90./117//9567P AR (Return to R/S – 1001z)				
	1037 - 1106z	19 Apr	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	QSY (x4) (1106z - Move from day time to night time frequency)				
	1106 - 1211z	19 Apr	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	1330 - 1333z	19 Apr	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	1632 - 1633z	19 Apr	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	1136 - 1137z	23 Apr	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1009 - 1012z	24 Apr	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	1001 - 1002z	25 Apr	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	0951 - 0952z	27 Apr	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
	1012 - 1105z	27 Apr	V MW3D (x3) DE 2SLC (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
	CQ 63 LMS 9567 TO 1716/6157BT (1040z) UGT COMM BT 67807/1716/2000/117NR/9567 AR BT 67807/1716/2000/117NR/9567 AR BT 67807/1716/2000/117NR/9567 AR (Return to R/S – 1042z)				
5801//10180					
(10180 only)	0334 - 0335z	01 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	MON
	0914 - 0915z	01 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	MON
	0232 - 0233z	03 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	WED
	1105 - 1106z	03 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	WED
	0857 - 0858z	08 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	MON
	0245 - 0303z	09 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	TUE
	(0251z)	VV HR SVC GA (0251z) NR 033 1100 RMKS 1339 TO 1089 BT 119 BT CL 1140/GBT/R/.29/2008/ AR QSL ? HR WK NR 090 (Return to R/S – 0252z) VV HR SVC GA (0253z) NR 043 1130 RMKS 1329 TO 1016 BT COMM /1200/X.978/83/1327..016 QSL ?			
	(0258z)	QSL ? HR WK .270 (Return to R/S 0258z)			
(10180 only)	0934 - 0935z	09 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	TUE
	1022 - 1023z	09 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	TUE
	0249 - 0300z	10 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	WED
	(0249z)	(In tfc – Hand sent) *99 19 0410 10..* BT 13.9 TO 1.89 1090 2250 1309 1292 1168 1270 1051 1185 1066 0045 A BT BT 5NT6 4TA6 6A5A NA44. UTA7 7346 N7D7 674D (Cont'd – 0251z) (Uses ? when a mistake is made)			
	(0257z)	AR QSL ? HR WK NR 23 ? EEE NR 23 (Return to R/S 0257z)			
(10180 only)	0242 - 0305z	12 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	FRI
	(0251z)	VV SVC GA* NR 062 1100 RMKS 1329 TO 1205 BT* (Hand sent) COMM /1130/XZ978/84/1327/1205 AR QSL ? HR WK NR 27 (Return to R/S – 0252z) VV HW 7G GA *NR 015/CCK CK 133 19 0412 1100 RMKS CQ BT*			
	(0304z)	T.DA 3ADT TUNN ? DTTD TNAA AATN 33UA (Cont'd – hand sent) (0259z) AR QSL ? HR WK NR 27 (Return to R/S – 0304z)			
	1039 - 1040z	12 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	FRI
	1302 - 1303z	12 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	FRI
(10180 only)	1333 - 1335z	12 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (5801 not checked) (Remote Siberia)	JPL	FRI
	(In tfc – 1333z) 1329 BT COMM /22.5/LZ97.9.NR 1147/1190 AR QSL ? HR WK NR 110 (1334z) (Return to R/S 1335z)				
(10180 only)	1042 - 1043z	10 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	WED
	0230 - 0310z	11 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	THU
	0937 - 0938z	11 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	THU
(10180 only)	0537 - 0538z	13 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	SAT
	1211 - 1212z	13 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	SAT
	1138 - 1139z	14 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	SUN
(10180 only)	0308 - 0313z	15 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	MON
(10180 only)	0939 - 0940z	15 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	MON
(10180 only)	1041 - 1042z	16 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	TUE
	0329 - 0331z	17 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	WED
	(In tfc 0329z) 9/1284 AR QSL ? HR NR 110 (Return to R/S – 0330z)				
	1110 - 1111z	17 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	WED
	1048 - 1049z	18 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	THU
	0257 - 0307z	19 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	FRI
	VV HR SVC GA (1203z – Hand sent) NR 074 1100 RMKS 1329 TO 1185 BT C/1130/ZBT/1329/1185 AR VV HR SVC GA NR 097 1100 RMKS 1329 TO 1060 BT COMM/1130/XZ978/84/1317/1060 AR QSL ? HR WK N NR 08 (Return to R/S - 0305z)				
(10180 only)	0943 - 0944z	19 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	FRI

(10180 only)	1046 - 1047z	22 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	MON
	0230 - 0231z	23 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	TUE
	1147 - 1148z	23 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	TUE
	1225 - 1226z	23 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	TUE
	1226 - 1227z	24 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	WED
(10180 only)	0214 - 0215z	25 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	THU
(10180 only)	0943 - 0944z	25 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	THU
(10180 only)	1130 - 1131z	26 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	FRI
	0202 - 0203z	27 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	SAT
(10180 only)	0959 - 1000z	27 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	SAT
	0958 - 0959z	28 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	SUN
6466//NRH	**Note: New call sign R/S and frequency!**				
	1410 - 1411z	13 Apr	V 3A7D (x3) DE UMX1 (x2) (Cont'd) (Remote Siberia)	JPL	SAT
6840//10640	0220 - 0225z	03 Apr	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	WED
	1020 - 1025z	03 Apr	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	WED
	1020 - 1025z	08 Apr	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	MON
	1020 - 1025z	09 Apr	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Philippines)	JPL	TUE
	2320 - 2325z	11 Apr	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Siberia)	JPL	THU
	0320 - 0325z	15 Apr	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	MON
	1120 - 1125z	16 Apr	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Siberia)	JPL	TUE
(10640 only)	0320 - 0325z	17 Apr	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	WED
	0220 - 0225z	25 Apr	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Hong Kong)	JPL	THU
(10640 only)	1120 - 1125z	26 Apr	VVV (x3) Q2M DE NYZ (x2) QSA ? K (R5) (Remote Tuner Siberia)	JPL	FRI
7582//8110	0838 - 0839z	08 Apr	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	0333 - 0334z	09 Apr	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	0929 - 0930z	09 Apr	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	0303 - 0304z	15 Apr	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	0932 - 0933z	15 Apr	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
7607//NRH	1158 - 1159z	14 Apr	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Siberia)	JPL	SUN
	2214 - 2215z	14 Apr	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SUN
	1357 - 1358z	15 Apr	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	2016 - 2017z	15 Apr	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1115 - 1116z	16 Apr	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Siberia)	JPL	TUE
	1406 - 1407z	16 Apr	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1942 - 1943z	16 Apr	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1410 - 1411z	17 Apr	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	1757 - 1758z	17 Apr	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	2007 - 2008z	17 Apr	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	1336 - 1337z	19 Apr	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Siberia)	JPL	FRI
	1629 - 1630z	19 Apr	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Siberia)	JPL	FRI
	1900 - 1901z	21 Apr	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Siberia)	JPL	SUN
	1143 - 1144z	23 Apr	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
	1243 - 1247z	23 Apr	(In tfc) V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Siberia)	JPL	TUE
			(In tfc – 1243z) COMM/213./LZ852A8/1473/1178 AR AGN *NR 138 2045 RMKS 1270 TO 1178/1497* BT COMM /2130/LZ..2A8/1473/1178 AR HR WK NR 1. (Return to R/S – 1244z)		
	1312 - 1313z	26 Apr	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	1536 - 1537z	26 Apr	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
	1915 - 1916z	26 Apr	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
7607//10779	1013 - 1014z	24 Apr	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	Note: New frequency for 3A7D				
7699//NRH	1513 - 1514z	25 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	THU
8101//10180	1122 - 1123z	02 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	TUE
	1235 - 1236z	02 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Hong Kong)	JPL	TUE
	1048 - 1049z	10 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	WED
8198//10108	**Note: New frequency for 3A7D**				
	1034 - 1035z	21 Apr	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Remote Siberia)	JPL	SUN
8789//10779					
(10779 only)	0341 - 0342z	01 Apr	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Siberia)	JPL	MON
	0930 - 0931z	01 Apr	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Siberia)	JPL	MON
	1035 - 1036z	02 Apr	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	TUE
(10779 only)	0218 - 0219z	03 Apr	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
(10779 only)	0244 - 0245z	03 Apr	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Siberia)	JPL	WED
	0840 - 0841z	08 Apr	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
	1054 - 1055z	08 Apr	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
(10779 only)	0329 - 0330z	09 Apr	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Siberia)	JPL	TUE
	0331 - 0332z	09 Apr	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Hong Kong)	JPL	TUE
	0931 - 0932z	09 Apr	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Hong Kong)	JPL	TUE
(10779 only)	1039 - 1040z	10 Apr	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
	2325 - 2326z	10 Apr	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Siberia)	JPL	WED
	0226 - 0227z	11 Apr	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
(10779 only)	0931 - 0932z	11 Apr	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	2311 - 2312z	11 Apr	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
	0237 - 0238z	12 Apr	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Siberia)	JPL	FRI

	1026 - 1027z	12 Apr	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
(10779 only)	0934 - 0935z	15 Apr	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	MON
(10779 only)	1043 - 1044z	16 Apr	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Siberia)	JPL	TUE
(10779 only)	0317 - 0318z	17 Apr	V **A**ITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	WED
		Note: Sending AITN vice WITN - Problem with R/S?			
(10779 only)	0934 - 0935z	19 Apr	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	FRI
(10779 only)	1042 - 1043z	21 Apr	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Siberia)	JPL	SUN
(10779 only)	0209 - 0210z	25 Apr	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
(10779 only)	0217 - 0218z	25 Apr	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Siberia)	JPL	THU
(10779 only)	0935 - 0936z	25 Apr	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	THU
(10779 only)	0210 - 0211z	27 Apr	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Siberia)	JPL	SAT
(10779 only)	0952 - 0953z	27 Apr	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Hong Kong)	JPL	SAT
(10779 only)	1004 - 1005z	28 Apr	V WITN (x3) DE GNXG (x2) (Cont'd) (Remote Tuner Siberia)	JPL	SUN

10305//10498 **Note: CZT3 on two new frequencies**

24 Apr 13 1228 - 1229 10305 CW M89 V RXP7 (x3) DE CZT3 (x2) (Cont'd) (//10498) (Wed) (Remote Tuner Siberia) JPL

10321//NRH	0339 - 0340z	01 Apr	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	MON
	0916 - 0917z	01 Apr	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	MON
10518//NRH	1124 - 1125z	02 Apr	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	TUE
	0234 - 0235z	03 Apr	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	WED
	0902 - 0903z	08 Apr	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	MON
	0304 - 0305z	09 Apr	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	TUE
	1024 - 1025z	09 Apr	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	TUE
	1050 - 1051z	10 Apr	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	WED
	0239 - 0240z	12 Apr	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	FRI
	Note: New set of call signs!				
	0539 - 0540z	13 Apr	**V FT7Y (x3) DE UE3G(x2)** (Cont'd) (Remote Tuner Siberia)	JPL	SAT
	0314 - 0315z	15 Apr	V FT7Y (x3) DE UE3G (x2) (Cont'd) (Remote Tuner Siberia)	JPL	MON
	0942 - 0943z	15 Apr	V FT7Y (x3) DE UE3G (x2) (Cont'd) (Remote Tuner Siberia)	JPL	MON
	0308 - 0309z	19 Apr	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	FRI
	1054 - 1055z	22 Apr	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	MON
	Note: Change to CZT3				
	0233 - 0234z	23 Apr	V RXP7 (x3) DE CZT3 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	TUE
	1236 - 1237z	23 Apr	V RXP7 (x3) DE CZT3 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	TUE
	0954 - 0955z	25 Apr	V RXP7 (x3) DE CZT3 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	THU
	1500 - 1501z	25 Apr	V RXP7 (x3) DE CZT3 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	THU
	Note: Round slip has been fixed and CZT3 has been replaced with CZT2.				
	1126 - 1127z	26 Apr	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	FRI

10720//NRH **Note: CZT2 is back and on a new frequency!**

	1045 - 1046z	16 Apr	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	TUE
11321//NRH	1043 - 1044z	12 Apr	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	FRI

11518//NRH **Note: Yet another new frequency for CZT2.**

	0947 - 0948z	11 Apr	V RXP7 (x3) DE CZT2 (x2) (Cont'd)(Remote Tuner Siberia)	JPL	THU
	0334 - 0335z	17 Apr	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	WED
	1112 - 1117z	17 Apr	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Remote Tuner Siberia)	JPL	WED

(In tfc – 1112z) U73D 74NA T6AD A566 D63N 4A37 5DNU (Cont'd - 1113z) AR QSL ? HR WK NR 12 K (Return to R/S – 1116z)

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

We don't have much information on this station, so an update from Token (T!) this time is much appreciated and shows the station is still continuing to transmit msgs on a regular basis.

M94 is still, surprisingly, on the air with 4 transmissions, 2 messages repeated for 2 days, each month. The only ID observed this month was 935. I believe I have not logged anything but 935 for several months.

Logs of M94 for March, 2013, from the Mojave Desert, California, USA

5115	1400z	10 Mar	[935]	1414z	good		Token	SUN
	1400z	11 Mar	[935]	1414z	good		Token	MON
	1400z	26 Mar	[935]	1413z	good		Token	TUE
	1400z	27 Mar	[935]	1413z	good		Token	WED

The new V24 / M94 schedule can be found as a JPG at the same URL as it has been in the past:
http://token_radio.home.mchsi.com/V24_M94_latest_sched.JPG

It can be found as a Word doc at:
http://token_radio.home.mchsi.com/V24_M94_sched_1Q_2013.doc (Thanks T!)

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

March started with repeats of the two msgs SD79 & SD80 on Fri 01 Mar - These msgs were first transmitted on 17 Jan & were repeated numerous times during Jan & Feb, always at the same time but not to any pattern as regards day or date of transmission.. The 2nd msg is sent immediately after the first with a one minute pause between each complete sending. There are three complete sendings of the two msgs..

1457 - 1538z 01 - 31 Mar Msgs SD79 SN60 & SD 80 SN55 reported on 01, 04,11,12,13, 15, 18 & 27 Mar All other days NRH

...then after 13 days of silence a new msg was sent, (unsurprisingly numbered SD81), with 70 grps.

1456 - 1521z	10 Apr	New Msg SD81 SN70	BR/GD	WED
1456 - 1521z	11 - 30Apr	Msg SD81 SN70 reported on 11,12,15 Apr All other days NRH	BR	

AAAAAAAAAAAAAAAAAAAAAAAAAAAA

SD81 SD80 SD80 TK TK TK

SN70 SN70 SN70

41392 32941 31161 01973 76031
70499 91362 18001 88260 23927
06236 84305 46061 63358 55864
26234 66469 81743 25893 48569
58552 82992 24650 23489 16428
98051 71427 36728 78561 61985
69248 82427 17179 39220 11542
31072 67096 29817 79080 34489
94136 65600 39807 02382 98271
67283 71385 29653 46019 14467
93100 64180 20932 83429 00487
97082 49708 85708 56092 00148
16992 50940 69910 11172 67367
99192 25247 62946 82120 30774

KKKKKKKKKKKKKKKKKKKKKKKKK

Courtesy BR

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 logs - This is now possibly obsolete, having been replaced by HM01 (see elsewhere in the newsletter for full logs of this new hybrid mode)

Marker Beacons (MX MXI)

Ary (AB) reported this oddity with the 'L' beacon set on Sat 16 Mar. By evening the beacon was back to normal - sending just one 'L'

5156.5	0711z	16 Mar	MX Beacon "L" sending strings of LLLLLZ	AB	SAT
6917.5	0711z	16 Mar	MX Beacon "L" sending strings of LLLLLZ	AB	SAT
8497.8	0711z	16 Mar	MX Beacon "L" sending strings of LLLLLZ	AB	SAT

Beacon Logs

3593.8	2121z	15 Mar	MX CW Beacon "P"	AB	FRI
		Also reported on Mar 15		*AB*	
3594	2039z	05 Mar	MX CW Beacon "C" Moscow	AB	TUE
4084	*Note: Previously heard on 5342 / 3658 / 3335. Checked these freqs, but N/H*				
	2140z	04 Mar	MXS CW Beacon "V" (Remote Tuner Finland)	JPL	MON
		Also reported on Mar 06, 11, 13, 21		*JPL*	
	2115z	15 Mar	MX CW Beacon "V"	AB	FRI
		Also reported on Apr 18		*AB*	
4150	2047z	18 Apr	MX CW Beacon "V"	AB	THU
		Also reported on Apr 25		*AB*	
4325.9	1740z	04 Mar	MXS CW Beacon "R" (// 5465.9 N/H) (Remote Tuner Russia)	JPL	MON
	1844z	04 Mar	MX CW Beacon "R" Izhevsk	AB	MON
		Also reported on Mar 05, 06, 07, 08, 11, 12, 13, 14,15, 24,30		*AB/JPL*	
		Apr 02, 18		*AB/JPL*	
4557.7	2119z	15 Mar	MX CW Beacon "D"	AB	FRI
4557.9	2040z	05 Mar	MX CW Beacon "S" Sevoromorsk	AB	TUE
		Also reported on Mar15		*AB*	
5154.3	1131z	06 Mar	MX CW Beacon "K"	HT	WED
		Also reported on Mar 07, 08, 11		*HT*	
5154.7	2119z	15 Mar	MX CW Beacon "D"	AB	FRI
5154.9	2119z	15 Mar	MX CW Beacon "S"	AB	FRI
5156.5	1351z	12 Mar	MXS CW Beacon "R" (Remote Tuner Finland)	JPL	TUE
	2115z	15 Mar	MX CW Beacon "L"	AB	FRI
5616.8	2016z	25 Apr	MX CW Beacon "L"	AB	THU
5619.5	1250z	21 Mar	MXS CW Beacon " V" (Remote Tuner Siberia)	JPL	THU
		Also reported on Mar 31& Apr 12		*JPL*	
6715.5	2016z	25 Apr	MX CW Beacon "L"	AB	THU
6917.5	1812z	13 Mar	MX CW Beacon "L" (Remote Tuner Sweden)	JPL	WED
	2115z	15 Mar	MX CW Beacon "L"	AB	FRI
		Also reported on Apr 18		*AB*	

7038.7	2125z	15 Mar MX CW Beacon "D"	AB	FRI
7038.9	2125z	15 Mar MX CW Beacon "S"	AB	FRI
7039.3	1035z	08 Mar MX CW Beacon "K"	HT	FRI
		Also reported on Mar 12	*HT*	
8404	2014z	25 Apr MX CW Beacon "V"	AB	THU
8494.8	1549z	30 Mar MX CW Beacon "P"	AB	SAT
8494.9	2126z	15 Mar MX CW Beacon "S"	AB	FRI
8495	2126z	15 Mar MX CW Beacon "C"	AB	FRI
		Also reported on Mar 30	*AB*	
8495.2	1200z	11 Mar MX CW Beacon "F"	HT	MON
8495.3	1200z	11 Mar MX CW Beacon "K"	HT	MON
		Also reported on Mar 12	*HT*	
8497.8	2053z	18 Apr MX CW Beacon "L"	AB	THU
		Also reported on Apr 25	*AB*	*THU*
10871.7	2126z	15 Mar MX CW Beacon "D"	AB	FRI
		Also reported on Mar 30	*AB*	
10871.8	1549	30 Mar MX CW Beacon "P"	AB	SAT
10871.9	1549	30 Mar MX CW Beacon "S"	AB	SAT
10872	2126z	15 Mar MX CW Beacon "C"	AB	FRI
13527.7	1549z	30 Mar MX CW Beacon "D"	AB	SAT
16331.0	1354z	11 Mar MX CW Beacon "C"	HT	MON
16331.7	1354z	11 Mar MX CW Beacon "D"	HT	MON
		Also reported on Mar 12, 30	*HT/AB*	
16332.3	2157z	03 Mar MX CW Beacon "K"	HT	SUN
		Also reported on Mar 05, 06, 09, 10	*HT*	
		Apr 04,	*JPL*	
16332.4	2237z	04 Mar MX CW Beacon "K"	HT	MON
20047.7	1339z	11 Mar MX CW Beacon "D"	HT	MON
		Also reported on Mar 12, 30	*HT/AB*	
20047.9	1508z	05 Mar MX CW Beacon "S"	HT	TUE
		Also reported on Mar 11, 12,30	*HT/AB*	

Contributors ;
AB, Aco117, Anon, ATC, BR, CB, CH10UK, DanielE2Kde, FN, GD, Hans, HFD, HT, Jan, JkC, JPL, RNGB, Spectre, tiNG, Token, westt1us, Wix

Thank you all for your logs.

HM01 MIXED MODE STATION

Note: **THE FULL HM01 SCHEDULE CAN BE FOUND IN THE CHARTS SECTION**

We start with a Cuban Desk Report:

HM01 has been with us for several months now, transmitting with 6 callups daily generally starting at 1600z and transmitting the same txt messages until the 1000z transmission the following day. The 5th digit of the callup will increment upwards by 1 on each subsequent day until the callup is replaced with a new one with the final digit returning to 1. Callups and file names seen so far are as follows.

Callup	File Name
0027	????????
0060	80161535
0127	34651662
0288	12375883
0308	41840961
0325	24722695
0340	????????
0374	10747614
0374	45750277
0380	71637521
0509	72883542
0560	05537984
0786	68365270
0825	55140360
1178	36330875
1304	55981161
1381	57011381
1467	77072574
1611	07610203
1622	72165184
1705	80063455
1738	65558465
1806	65272461
1883	17171600
2024	63522008
2034	58829695
2086	16300692
2151	02185844
2173	75461710
2254	40251024
Callup	File Name
2571	28732364
2601	25048303
2748	68729008
2752	74741802
2804	02090041
2832	77254284
2876	32304763
3007	38882071
3256	61734547
3280	88217834
3333	86070161
3357	????????
3375	22235071
3398	90499237
3423	70384586
3536	72051405
3540	60357534
3613	80443777
3641	21522421

Callup	File Name
3676	88374124
3836	36527476
3850	06205446
3851	65368180
3883	85244373
3967	57833967
4012	????????
4316	35284671
4363	12495993
4382	43047461
4438	43047461
Callup	File Name
4441	54865077
4450	15577711
4541	60840701
4561	04488536
4685	????????
4760	24411008
4826	10700384
5110	05316545
5211	25835066
5256	28144785
5271	68783805
5338	????????
5364	81820067
5430	24148630
5577	????????
5586	26882581
5623	64733702
5643	72365268
5654	58662662
6063	74310553
6153	50601211
6286	34603996
6337	23553578
6444	30570617
6461	54848667
6505	12243711
6561	51284531
6611	38402140
6643	40740465
6663	86706691
6687	63072374
6866	67882876
6875	06271700
6876	15767606
7013	24169729
7129	36230978
7214	00657507
7226	40037714

Callup	File Name
7227	????????
7255	37785161
7285	78760831
7336	65547558
7422	83086477
7440	30427021
7442	47836170
7548	61835548
7814	10747614
7850	38876224
8115	18711616
8155	30403120
8160	05358004
8190	56813491
8306	72210411
8336	56188233
8369	32937929
8446	22113883
8672	04696521
8740	34140043
8772	84705772
8845	01548510
8871	60434623
9169	00406750

Around February 20th callup 1381X transmitted file name 57011381.txt 1094 bytes. This caught our attention for two reasons,

1. The last 4 of the text file name was the same as the callup.

2 The file was larger than normal (1094) bytes in contrast to the usual 900-1020 bytes.
This message when looked at in the hex editor did not follow the format of any other HM01 file but was similar to the short SK01 files seen in previous years.

Byte 0 62 (b) = binary
Byte 1 42 (This means the file name starts with 57). The relationship is not linear if the filename starts 50 it would be 0C 49 = 6E 45 = 18
Byte 2 01 (normally 00 or 01)
Byte 3 DA (This byte may contain hex letters), and in this case it does.
Byte 4 01 (normally 00 or 01)

As far as we know the message starts at this point as determined by 2 fully decoded SK01 messages. In this message format only hex bytes with numbers are used 00-09 10-19 etc. All other messages contain hex bytes up to FF including the ones with letters.

This message has changed from the previous formats. Towards the end numerous B1 to B9 entries seems there must be something to this but we don't know what.

62 42 01 DA 01 14 25 45 00 46 84 73 31 98 22 27 64 26 52 16 28 77 10 69 35 03 85 11 01 63 09 34
11 44 63 89 71 75 30 25 54 84 89 43 80 70 29 10 29 40 38 25 80 80 43 38 23 90 40 47 55 44 22 22
59 63 41 76 75 16 49 64 99 84 95 38 89 31 92 30 92 25 40 63 80 13 79 93 28 22 87 61 51 15 15 84
01 76 23 22 55 81 91 84 54 76 94 36 64 45 89 05 14 45 23 70 68 78 49 51 82 86 05 45 38 16 26 71
48 93 85 21 32 93 26 44 55 74 56 05 13 76 46 93 27 94 81 17 77 05 20 14 01 10 01 48 06 07 21 74
25 97 65 02 95 85 86 60 74 94 79 46 20 16 84 23 51 90 01 24 20 40 46 14 69 83 33 41 23 91 98 61
70 85 24 11 34 53 92 38 86 91 71 52 36 84 77 84 42 26 07 90 34 32 79 49 45 18 55 10 00 96 19 06
22 38 38 72 34 21 16 79 65 82 58 03 82 23 16 82 10 98 41 66 71 58 36 73 01 07 81 15 48 97 42 83
16 19 46 80 40 23 28 20 50 37 06 84 00 07 42 28 41 23 30 97 89 00 19 53 82 76 53 10 01 30 18 02
54 40 53 86 26 41 34 06 13 23 24 19 82 55 54 11 77 48 11 33 84 76 64 02 83 29 38 02 11 67 76 52
68 74 42 00 10 44 14 34 56 79 35 89 92 32 92 28 51 46 80 90 15 67 92 58 36 89 28 14 93 08 09 41
43 96 29 93 92 74 70 42 42 22 58 84 26 80 20 70 06 22 97 28 08 58 37 67 89 15 55 83 81 98 16 17
56 04 85 32 92 29 91 46 11 45 25 32 80 44 66 19 19 60 40 61 28 71 09 96 91 79 93 13 94 86 31 79
99 12 14 66 38 67 96 81 66 08 42 23 29 22 09 70 66 83 78 23 35 19 43 03 09 51 05 77 77 82 76 32
00 50 42 19 74 49 79 67 67 66 55 75 00 68 54 70 09 34 15 68 84 23 32 46 34 59 53 20 09 00 15 35
74 56 83 76 57 15 69 73 83 86 33 43 59 26 34 83 71 59 49 23 61 94 82 47 56 88 10 01 35 65 20 56
03 79 60 60 00 41 81 35 25 86 83 45 40 21 70 53 32 72 72 19 87 73 21 92 74 12 24 92 42 11 16 80
00 14 93 62 26 43 42 45 20 24 73 12 00 57 68 98 90 72 88 03 04 25 04 26 41 48 39 47 84 85 92 81
17 85 82 16 48 80 18 15 81 50 74 88 90 39 69 45 99 38 15 84 65 65 54 16 50 77 43 93 59 B7 59 41
20 56 81 71 60 07 44 77 92 25 75 54 51 62 80 02 35 89 84 69 09 30 06 91 57 00 23 55 39 60 55 04
84 34 37 55 19 38 77 24 29 09 65 80 28 63 09 86 74 84 41 10 84 66 35 72 37 67 15 06 55 75 78 06
06 98 51 09 04 97 54 52 44 91 68 32 40 02 11 38 77 79 40 08 70 19 80 06 94 16 91 72 01 81 65 19
26 72 04 75 85 44 59 27 99 22 64 86 48 22 84 81 16 96 21 26 89 23 43 36 67 05 93 41 76 48 80 57
65 73 78 83 58 24 94 89 79 99 57 79 62 10 37 14 27 09 51 23 45 21 01 74 44 64 70 35 04 10 55 60
85 99 68 52 24 45 31 32 48 39 37 30 16 71 29 77 44 06 31 99 26 17 80 25 24 75 40 44 72 35 15 58
26 73 21 49 05 62 70 12 95 62 55 09 43 79 65 82 10 13 07 90 65 65 10 63 28 01 14 27 99 19 77 08
01 38 80 53 47 71 30 20 11 40 59 08 73 54 45 85 02 01 18 62 12 46 B7 61 B6 12 46 B9 65 25 B5 94
B4 02 17 B6 09 B1 53 B9 36 B0 66 B8 25 B0 30 84 B9 29 B0 68 B0 12 98 10 07 78 90 86 01 B0 45 B6
58 B6 06 B8 17 B2 18 66 B0 81 66 32 B2 78 B8 38 53 71 43 90 67 63 64 46 07 47 00 18 89 97 56 37
75 B9 63 B4 78 B8 95 B7 74 B1 45 52 B9 41 83 44 B1 51 B2 13 17 73 40 65 97 93 96 43 90 07 96 52
30 27 90 79 98 14 55 06 11 47 28 57 B4 03 B5 73 20 B3 77 B2 51 B9 75 B9 28 03 54 70 94 93 91 09
17 54 17 22 05 76 27 B8 84 B7 34 12 38 03 63 63 58 97 90 70 12 07 54 38 00 39 38 95 36 35 B1 81
65 B3 57 37 98 01 DB 01 B4 04 B1 10 76 86 B5 14 B2 90 B6 39 B9 55 16 97 B8 50 B7 18 B0 40 98 78
04 34 75 26 18 06 43 82 66 79 07 64 63 90 00 09 49 65 67 25 56 11 60 77 43 66 70 84 57 30 97 94
38 82 21 44 18 03

On April 13th 57833967.TXT was transmitted which caught our attention for two reasons.

1. It was transmitted in conjunction with callup 3967 which like the longer message above is the same as the last 4 of the file name.
2. It was much shorter in length (234 bytes) than the usual messages.

Formatting is the same as was used with short SK01 files.
Byte 0 62 (b) = binary
Byte 1 42 (File name starts with 57)
Byte 2 01 (normally 00 or 01)
Byte 3 46 (may contain hex letters), does not in this case
Byte 4 02 (normally 00 or 01) but is 02 in this case

The message probably starts at byte 5. Again, only hex numbers 00-09, 10-19 etc are seen

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

Hopefully more of these files will be forthcoming so we can continue our analysis.

Now onto our logs section with thanks to all who have contributed [esp Roland, PY4ZBZ whose DIGITRX program allows us to see further into the RDFT component]

Thanks Cuban Desk Manager

March2013:

17540kHz2300z	02/03[16222 48267 45615 03743 51101 32806] QSA3 QRM1	DanAR	SAT

9240kHz0900z 03/03
5855kHz1000z 03/03
9155kHz1000z 03/03

voice > RDFT (decoded with DIGTRX, encrypted file)

16222 > 72165184.TXT 970 bytes
48267 > 10700384.TXT 1017 bytes
45615 > 04488536.TXT 973 bytes
03743 > 45750277.TXT 971 bytes
51101 > 05316545.TXT 1012 bytes new !
32806 > 88217834.TXT 963 bytes

11635kHz1800z 03/03
11635kHz2100z 03/03
10715kHz2200z 03/03
11530kHz2300z 03/03

voice > RDFT (decoded with DIGTRX, encrypted file)

16223 > 72165184.TXT 970 bytes
14671 > 77072574.TXT 992 bytes new !
45616 > 04488536.TXT 973 bytes
03744 > 45750277.TXT 971 bytes
51102 > 05316545.TXT 1012 bytes
32807 > 88217834.TXT 963 bytes

9240kHz0900z 04/03
5855kHz1000z 04/03
9155kHz1000z 04/03

voice > RDFT (decoded with DIGTRX, encrypted file)

16223 > 72165184.TXT 970 bytes
14671 > 77072574.TXT 992 bytes
45616 > 04488536.TXT 973 bytes
03744 > 45750277.TXT 971 bytes
51102 > 05316545.TXT 1012 bytes
32807 > 88217834.TXT 963 bytes

11530kHz1700z 04/03
11635kHz2100z 04/03
10715kHz2200z 04/03
11530kHz2300z 04/03

voice > RDFT (decoded with DIGTRX, encrypted file)

16224 > 72165184.TXT 970 bytes
14672 > 77072574.TXT 992 bytes
28761 > 32304763.TXT 1006 bytes new !
03745 > 45750277.TXT 971 bytes
51103 > 05316545.TXT 1012 bytes
81601 > 05358004.TXT 961 bytes new !

11530kHz2300z 04/03[16224 14672 28761 03745 51103 81601] QSA3 QRM2 DanAR MON

12120kHz0900z 05/03
12180kHz1000z 05/03

voice > RDFT (decoded with DIGTRX, encrypted file)

16224 > 72165184.TXT 970 bytes
14672 > 77072574.TXT 992 bytes
28761 > 32304763.TXT 1006 bytes
03745 > 45750277.TXT 971 bytes
51103 > 05316545.TXT 1012 bytes
81601 > 05358004.TXT 961 bytes

11635kHz1800z 05/03
16180kHz2100z 05/03
17480kHz2200z 05/03
17540kHz2300z 05/03

voice > RDFT (decoded with DIGTRX, encrypted file)

16225 > 72165184.TXT 970 bytes
14673 > 77072574.TXT 992 bytes
28762 > 32304763.TXT 1006 bytes
03746 > 45750277.TXT 971 bytes
51104 > 05316545.TXT 1012 bytes
81602 > 05358004.TXT 961 bytes

17540kHz2300z 05/03[16225 14673 28762 03746 51104 81602] QSA3 QRM2 DanAR TUE

9240kHz0900z 06/03
9155kHz1000z 06/03
5855kHz1000z 06/03

voice > RDFT (decoded with DIGTRX, encrypted file)

16225 > 72165184.TXT 970 bytes
14673 > 77072574.TXT 992 bytes
28762 > 32304763.TXT 1006 bytes
03746 > 45750277.TXT 971 bytes
51104 > 05316545.TXT 1012 bytes
81602 > 05358004.TXT 961 bytes

11435kHz1600z 06/03
11530kHz1700z 06/03
11635kHz1800z 06/03
11635kHz2100z 06/03
10715kHz2200z 06/03
11530kHz2300z 06/03

voice > RDFT (decoded with DIGTRX, encrypted file)

18831 > 17171600.TXT 995 bytes NEW !
14674 > 77072574.TXT 992 bytes
28763 > 32304763.TXT 1006 bytes
43161 > 35284671.TXT 966 bytes NEW !
51105 > 05316545.TXT 1012 bytes
81603 > 05358004.TXT 961 bytes

14375kHz0600z 07/03
13435kHz0700z 07/03
12120kHz0900z 07/03

voice > RDFT (decoded with DIGTRX, encrypted file)

18831 > 17171600.TXT 995 bytes
14674 > 77072574.TXT 992 bytes
28763 > 32304763.TXT 1006 bytes
43161 > 35284671.TXT 966 bytes
51105 > 05316545.TXT 1012 bytes
81603 > 05358004.TXT 961 bytes

16180kHz2100z 07/03
17480kHz2200z 07/03
17540kHz2300z 07/03

voice > RDFT (decoded with DIGTRX, encrypted file)

18832 > 17171600.TXT 995 bytes
14675 > 77072574.TXT 992 bytes
28764 > 32304763.TXT 1006 bytes
43162 > 35284671.TXT 966 bytes
51106 > 05316545.TXT 1012 bytes
81604 > 05358004.TXT 961 bytes

9240kHz0900z 08/03
9155kHz1000z 08/03
5855kHz1000z 08/03

voice > RDFT (decoded with DIGTRX, encrypted file)

18832 > 17171600.TXT 995 bytes
14675 > 77072574.TXT 992 bytes
28764 > 32304763.TXT 1006 bytes
43162 > 35284671.TXT 966 bytes
51106 > 05316545.TXT 1012 bytes
81604 > 05358004.TXT 961 bytes
/
11435kHz1600z 08/03
11530kHz1700z 08/03
11635kHz1800z 08/03
11635kHz2100z 08/03
10715kHz2200z 08/03
11530kHz2300z 08/03

voice > RDFT (decoded with DIGTRX, encrypted file)

18833 > 17171600.TXT 995 bytes
14676 > 77072574.TXT 992 bytes
28765 > 32304763.TXT 1006 bytes
43163 > 35284671.TXT 966 bytes
83061 > 72210411.TXT 971 bytes NEW!
81605 > 05358004.TXT 961 bytes

12120kHz0900z 09/03 ATC also
12180kHz1000z 09/03 ATC also

voice > RDFT (decoded with DIGTRX, encrypted file)

18833 > 17171600.TXT 995 bytes
14676 > 77072574.TXT 992 bytes
28765 > 32304763.TXT 1006 bytes
43163 > 35284671.TXT 966 bytes
83061 > 72210411.TXT 971 bytes
81605 > 05358004.TXT 961 bytes

11635kHz1800z 09/03
16180kHz2100z 09/03
17480kHz2200z 09/03
17540kHz2300z 09/03

voice > RDFT (decoded with DIGTRX, encrypted file)

18834 > 17171600.TXT 995 bytes
14677 > 77072574.TXT 992 bytes
28766 > 32304763.TXT 1006 bytes
43164 > 35284671.TXT 966 bytes
83062 > 72210411.TXT 971 bytes
81606 > 05358004.TXT 961 bytes

16180kHz2100z 09/03 fair sig in Zam., voice and data MarkSA SAT

17540kHz2300z 09/03[18834 14677 28766 43164 83062 81606] QSA3 QRM1 DanAR SAT

9240kHz0900z 10/03
9155kHz1000z 10/03
5855kHz1000z 10/03

voice > RDFT (decoded with DIGTRX, encrypted file)

18834 > 17171600.TXT 995 bytes
14677 > 77072574.TXT 992 bytes
28766 > 32304763.TXT 1006 bytes
43164 > 35284671.TXT 966 bytes
83062 > 72210411.TXT 971 bytes
81606 > 05358004.TXT 961 bytes

11530kHz1700z 1 0/03
11635kHz1800z 10/03
11635kHz2100z 10/03
10715kHz2200z 10/03
11530kHz2300z 10/03

voice > RDFT (decoded with DIGTRX, encrypted file)

18835 > 17171600.TXT 995 bytes
63371 > 23553578.TXT 960 bytes NEW !
35401 > 60357534.TXT 961 bytes NEW !
43165 > 35284671.TXT 966 bytes
83063 > 72210411.TXT 971 bytes
81607 > 05358004.TXT 961 bytes

9240kHz0900z 11/03
9155kHz1000z 11/03
5855kHz1000z 11/03

voice > RDFT (decoded with DIGTRX, encrypted file)

18835 > 17171600.TXT 995 bytes
63371 > 23553578.TXT 960 bytes
35401 > 60357534.TXT 961 bytes
43165 > 35284671.TXT 966 bytes
83063 > 72210411.TXT 971 bytes
81607 > 05358004.TXT 961 bytes

11435kHz1600z 11/03
11530kHz1700z 11/03
11635kHz1800z 11/03
11635kHz2100z 11/03
10715kHz2200z 11/03
11530kHz2300z 11/03

voice > RDFT (decoded with DIGTRX, encrypted file)

18836 > 17171600.TXT 995 bytes
63372 > 23553578.TXT 960 bytes
35402 > 60357534.TXT 961 bytes
43166 > 35284671.TXT 966 bytes
83064 > 72210411.TXT 971 bytes
65051 > 12243711.TXT 985 bytes NEW !

11435kHz1600z 11/03
11530kHz1700z 11/03
11635kHz1800z 11/03
16180kHz2100z 11/03
17480kHz2221z 11/03
17540kHz2300z 11/03

voice > RDFT (decoded with DIGTRX, encrypted file)

38831 > 85244373.TXT 955 bytes NEW !
63373 > 23553578.TXT 960 bytes
35403 > 60357534.TXT 961 bytes
52561 > 28144785.TXT 991 bytes NEW !
83065 > 72210411.TXT 971 bytes
65052 > 12243711.TXT 985 bytes

12120kHz0900z 12/03
12180kHz1000z 12/03

voice > RDFT (decoded with DIGTRX, encrypted file)

18836 > 17171600.TXT 995 bytes
63372 > 23553578.TXT 960 bytes
35402 > 60357534.TXT 961 bytes
43166 > 35284671.TXT 966 bytes
83064 > 72210411.TXT 971 bytes
65051 > 12243711.TXT 985 bytes

10345kHz0600z 13/03
9330kHz0700z 13/03
9240kHz0900z 13/03
9155kHz1000z 13/03
5855kHz1000z 13/03
11435kHz1600z 13/03
11530kHz1700z 13/03
11635kHz1800z 13/03
11635kHz2100z 13/03
10715kHz2200z 13/03
11530kHz2300z 13/03

voice > RDFT (decoded with DIGTRX, encrypted file)

38831 > 85244373.TXT 955 bytes
63373 > 23553578.TXT 960 bytes
35403 > 60357534.TXT 961 bytes
52561 > 28144785.TXT 991 bytes
83065 > 72210411.TXT 971 bytes
65052 > 12243711.TXT 985 bytes

All transmissions today 13/03 were the same!

11530kHz2300z 13/03[38831 63373 35403 52561 83065 65052] QSA3 QRM2 DanAR WED

12120kHz0900z 14/03
12180kHz1000z 14/03
11435kHz1600z 14/03
11530kHz1700z 14/03
16180kHz2100z 14/03
17480kHz2200z 14/03
17540kHz2300z 14/03 also DanAR

voice > RDFT (decoded with DIGTRX, encrypted file)

38831 > 85244373.TXT 955 bytes
63373 > 23553578.TXT 960 bytes
35403 > 60357534.TXT 961 bytes
52561 > 28144785.TXT 991 bytes
83065 > 72210411.TXT 971 bytes
65052 > 12243711.TXT 985 bytes

Transmissions were the same as those from 13/03

9240kHz0900z 15/03
9155kHz1000z 15/03
5855kHz1000z 15/03
11435kHz1600z 15/03
11530kHz1700z 15/03
11635kHz1800z 15/03
10715kHz2200z 15/03
11530kHz2300z 15/03

voice > RDFT (decoded with DIGTRX, encrypted file)

38831 > 85244373.TXT 955 bytes
63373 > 23553578.TXT 960 bytes
35403 > 60357534.TXT 961 bytes
52561 > 28144785.TXT 991 bytes
83065 > 72210411.TXT 971 bytes
65052 > 12243711.TXT 985 bytes

Transmissions were the same as those from yesterday !

12120kHz0900z 16/03
12180kHz1000z 16/03
11530kHz1700z 16/03
11635kHz1800z 16/03
16180kHz2100z 16/03
17540kHz2300z 16/03 also DanAr

voice > RDFT (decoded with DIGTRX, encrypted file)

38831 > 85244373.TXT 955 bytes
63373 > 23553578.TXT 960 bytes
35403 > 60357534.TXT 961 bytes
52561 > 28144785.TXT 991 bytes
83065 > 72210411.TXT 971 bytes
65052 > 12243711.TXT 985 bytes

Transmissions were the same as those from
15/03, 14/03 and 13/03

9240kHz0900z 17/03
9155kHz1000z 17/03
5855kHz1000z 17/03
11435kHz1600z 17/03
11635kHz1800z 17/03
11635kHz2100z 17/03
10715kHz2200z 17/03
11530kHz2300z 1 7/03

voice > RDFT (decoded with DIGTRX, encrypted file)

38831 > 85244373.TXT 955 bytes
63373 > 23553578.TXT 960 bytes
35403 > 60357534.TXT 961 bytes
52561 > 28144785.TXT 991 bytes
83065 > 72210411.TXT 971 bytes
65052 > 12243711.TXT 985 bytes

Transmissions were the same as those from
16/03, 15/03, 14/03 and 13/03

9240kHz0900z 18/03
9155kHz1000z 18/03
5855kHz1000z 18/03
11435kHz1600z 18/03
11530kHz1700z 18/03
11635kHz2100z 18/03
10715kHz2200z 18/03
11530kHz2300z 18/03

voice > RDFT (decoded with DIGTRX, encrypted file)

38831 > 85244373.TXT 955 bytes
63373 > 23553578.TXT 960 bytes
35403 > 60357534.TXT 961 bytes
52561 > 28144785.TXT 991 bytes
83065 > 72210411.TXT 971 bytes
65052 > 12243711.TXT 985 bytes

Transmissions were the same as those from
17/03, 16/03, 15/03, 14/03 and 13/03 !

12120kHz0900z 19/03
12180kHz1000z 19/03 and 11635kHz with strange echo (not on sked?)
11435kHz1600z 19/03
11530kHz1700z to 1730z 19/03
11435kHz1730z to 1800z 19/03 (not on sked?)
11635kHz1800z 19/03
16180kHz2100z 19/03
17480kHz2200z 19/03
17540kHz2300z 19/03

voice > RDFT (decoded with DIGTRX, encrypted file)

38831 > 85244373.TXT 955 bytes
63373 > 23553578.TXT 960 bytes
35403 > 60357534.TXT 961 bytes
52561 > 28144785.TXT 991 bytes
83065 > 72210411.TXT 971 bytes
65052 > 12243711.TXT 985 bytes

Transmissions were the same as those from
18/03, 17/03, 16/03, 15/03, 14/03 and 13/03 !

9240kHz0900z 20/03
9155kHz1000z 20/03
5855kHz1000z 20/03
11635kHz2100z 20/03
10715kHz2200z 20/03
11530kHz2300z 20/03

voice > RDFT (decoded with DIGTRX, encrypted file)

38831 > 85244373.TXT 955 bytes
63373 > 23553578.TXT 960 bytes
35403 > 60357534.TXT 961 bytes
52561 > 28144785.TXT 991 bytes
83065 > 72210411.TXT 971 bytes
65052 > 12243711.TXT 985 bytes

Transmissions were the same as those from
19/03, 18/03, 17/03, 16/03, 15/03, 14/03 and 13/03 !

12120kHz0900z 21/03
11635kHz1000z 21/03
5855kHz1000z 21/03
11435kHz1600z 21/03
11530kHz1700z 21/03
11635kHz1800z 21/03

voice > RDFT (decoded with DIGTRX, encrypted file)

38831 > 85244373.TXT 955 bytes
63373 > 23553578.TXT 960 bytes
35403 > 60357534.TXT 961 bytes
52561 > 28144785.TXT 991 bytes
83065 > 72210411.TXT 971 bytes
65052 > 12243711.TXT 985 bytes

Transmissions were the same as those from
20, 19, 18, 17, 16, 15, 14 and 13/03 !

16180kHz2100z 21/03 22026, 22811, 22363, 60151, 45126, 01642 New transmission ! No DIGTRX decoding ... QRM PY4ZBZ THU

17540kHz2300z 21/03[22026 22811 22363 60151 45126 01642] QSA3 DanAR THU

9155kHz1000z 22/03
5855kHz1000z 22/03
11530kHz1700z 22/03
11635kHz2100z 22/03
10715kHz2200z 22/03

11530kHz1700z 23/03
11635kHz1800z 23/03
16180kHz2100z 23/03
17480kHz2200z 23/03

5855kHz1000z 24/03
11635kHz2100z 24/03
11530kHz2300z 24/03 also DanAR

voice > RDFT (decoded with DIGTRX, encrypted file)

38831 > 85244373.TXT 955 bytes
63373 > 23553578.TXT 960 bytes
35403 > 60357534.TXT 961 bytes
52561 > 28144785.TXT 991 bytes
83065 > 72210411.TXT 971 bytes
65052 > 12243711.TXT 985 bytes

Again the old files !

9240kHz0900z 25/03
5855kHz1000z 25/03
9155kHz1000z 25/03
11435kHz1600z 25/03
11635kHz2100z 25/03
10715kHz2200z 25/03
11530kHz2300z 25/03

12120kHz0900z 26/03
12180kHz1000z 26/03
11635kHz1000z 26/03

voice > RDFT (decoded with DIGTRX, encrypted file)

38831 > 85244373.TXT 955 bytes
63373 > 23553578.TXT 960 bytes
35403 > 60357534.TXT 961 bytes
52561 > 28144785.TXT 991 bytes
83065 > 72210411.TXT 971 bytes
65052 > 12243711.TXT 985 bytes

Again the old files !

11635kHz1800z 26/03
16180kHz2100z 26/03
17540kHz2300z 26/03 also DanAr

voice > RDFT (decoded with DIGTRX, encrypted file)

24082 > 87386815.TXT 966 bytes
22813 > 13165657.TXT 959 bytes
22365 > 76556118.TXT 973 bytes
60153 > 15475065.TXT 1006 bytes
50272 > 64360874.TXT 988 bytes
01644 > 38425055.TXT 980 bytes

New files !

9330kHz 0657z	27/03[24082 22813 22365 60153 50272 01644] plus data traffic	RNGB	WED
13435kHz0737z	28/03[in progress] Fair signal, weak modulation	Hans	THU
17540kHz2300z	28/03[24084 22815 86151 60155 50274 26741] QSA3	DanAR	THU
16180kHz2100z	30/03[58361 40851 86153 44181 84751 26743]	Anon	SAT
17540kHz2300z	30/03[58361 40851 86153 44181 84751 26743] QSA3	DanAR	SAT

17480kHz2200z 02/04 QSA4
17540kHz2300z 02/04 QSA5

voice > RDFT (decoded with DIGTRX, encrypted file)

58364 > 21182865.TXT 977 bytes
40854 > 17417867.TXT 1010 bytes
86156 > 40237505.TXY 989 bytes
44184 > 77464332.TXT 970 bytes
84754 > 16763432.TXT 969 bytes
26746 > 60872675.TXT 970 bytes

11530kHz1700z 03/04 DanAr also
11635kHz1800z 03/04
10715kHz2200z 03/04
11530kHz2300z 03/04

voice > RDFT (decoded with DIGTRX, encrypted file)

58365 > 21182865.TXT 977 bytes
40855 > 17417867.TXT 1010 bytes
86157 > 40237505.TXY 989 bytes
44185 > 77464332.TXT 970 bytes
84755 > 16763432.TXT 969 bytes
26747 > 60872675.TXT 970 bytes

11530kHz1700z 04/04
17540kHz2300z 04/04 DanAr also

voice > RDFT (decoded with DIGTRX, encrypted file)

58366 > 21182865.TXT 977 bytes
04861 > 61615731.TXT 961 bytes New file !
86158 > 40237505.TXT 989 bytes
44186 > 77464332.TXT 970 bytes
84756 > 16763432.TXT 969 bytes
26748 > 60872675.TXT 970 bytes

11635kHz2100z 05/04
10715kHz2200z 05/04
11530kHz2300z 05/04 DanAr also

voice > RDFT (decoded with DIGTRX, encrypted file)

44415 > 54865077.TXT 959 bytes
75483 > 61835548.TXT 1002 bytes
83363 > 56188233.TXT 974 bytes
47604 > 24411008.TXT 992 bytes
61532 > 50601211.TXT 1009 bytes
22545 > 40251024.TXT 987 bytes

1530kHz1700z 06/04
11635kHz1800z 06/04
17540kHz2300z 06/04

voice > RDFT (decoded with DIGTRX, encrypted file)

44381 > 43047461.TXT 995 bytes New file !
75484 > 61835548.TXT 1002 bytes
83364 > 56188233.TXT 974 bytes
47605 > 24411008.TXT 992 bytes
61533 > 50601211.TXT 1009 bytes
22546 > 40251024.TXT 987 bytes

5855kHz1000z 07/04
9155kHz1000z 07/04

voice > RDFT (decoded with DIGTRX, encrypted file)

44381 > 43047461.TXT 995 bytes
75484 > 61835548.TXT 1002 bytes
83364 > 56188233.TXT 974 bytes
47605 > 24411008.TXT 992 bytes
61533 > 50601211.TXT 1009 bytes
22546 > 40251024.TXT 987 bytes

11635kHz2100z 07/04
10715kHz2200z 07/04
11530kHz2300z 07/04

voice > RDFT (decoded with DIGTRX, encrypted file)

44382 > 43047461.TXT 995 bytes
75485 > 61835548.TXT 1002 bytes
83365 > 56188233.TXT 974 bytes
87721 > 84705772.TXT 972 bytes New file !
61534 > 50601211.TXT 1009 bytes
22547 > 40251024.TXT 987 bvtes

5855kHz1000z 08/04
9155kHz1000z 08/04

voice > RDFT (decoded with DIGTRX, encrypted file)

44382 > 43047461.TXT 995 bytes
75485 > 61835548.TXT 1002 bytes
83365 > 56188233.TXT 974 bytes
87721 > 84705772.TXT 972 bytes
61534 > 50601211.TXT 1009 bytes
22547 > 40251024.TXT 987 bytes

10715kHz2200z 08/04
11530kHz2300z 08/04

voice > RDFT (decoded with DIGTRX, encrypted file)

44383 > 43047461.TXT 995 bytes
25541 > 83005001.TXT 975 bytes New file !
20241 > 63522008.TXT 980 bytes New file !
87722 > 84705772.TXT 972 bytes
61535 > 50601211.TXT 1009 bytes
25711 > 28732364.TXT 976 bytes New file !

12120kHz0900z 09/04
12180kHz1000z 09/04
11635kHz1000z 09/04

voice > RDFT (decoded with DIGTRX, encrypted file)

44383 > 43047461.TXT 995 bytes
25541 > 83005001.TXT 975 bytes
20241 > 63522008.TXT 980 bytes
87722 > 84705772.TXT 972 bytes
61535 > 50601211.TXT 1009 bytes
25711 > 28732364.TXT 976 bvtes

11435kHz1600z 09/04
16180kHz2100z 09/04
17540kHz2300z 09/04

voice > RDFT (decoded with DIGTRX, encrypted file)

44384 > 43047461.TXT 995 bytes
25542 > 83005001.TXT 975 bytes
20242 > 63522008.TXT 980 bytes
87723 > 84705772.TXT 972 bytes
40831 > 28732364.TXT 976 bytes New file !
25712 > 28732364.TXT 976 bytes

9240kHz0900z 10/04
5855kHz1000z 10/04
9155kHz1000z 10/04

voice > RDFT (decoded with DIGTRX, encrypted file)

44384 > 43047461.TXT 995 bytes
25542 > 83005001.TXT 975 bytes
20242 > 63522008.TXT 980 bytes
87723 > 84705772.TXT 972 bytes
40831 > 28732364.TXT 976 bytes
25712 > 28732364.TXT 976 bytes

11635kHz2100z 10/04
10715kHz2200z 10/04
11530kHz2300z 10/04

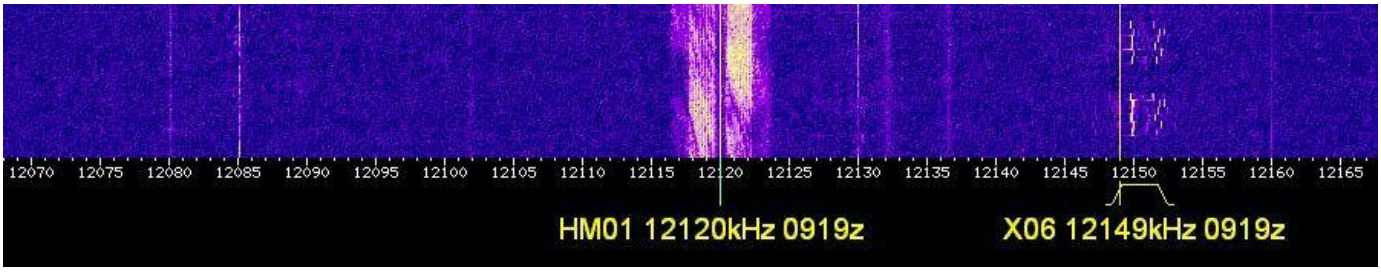
voice > RDFT (decoded with DIGTRX, encrypted file)

44385 > 43047461.TXT 995 bytes
25543 > 83005001.TXT 975 bytes
20243 > 63522008.TXT 980 bytes
87724 > 84705772.TXT 972 bytes
40832 > 28732364.TXT 976 bytes
25713 > 28732364.TXT 976 bytes

Thanks to Roland for his input, see his site here: http://www.qsl.net/py4zbz/eni.htm

9240kHz0900z	15/04 [03405 39674 72272 55776 40123 00274] 0952z Fair QRN3 QSB3	Spectre	MON
9155kHz1000z	17/04 [03407 39676 72274 55774 40125 00276] 1052z Weak QRN4 QSB3	Spectre	WED
10715kHz2157z	14/04 [03405 39674 72272 55776 40123 00274] 2252z Fair QRN3 QSB3	Spectre	SUN
2157z	15/04 [03406 39675 72273 55773 40124 00275] 2252z Fair QRN3 QSB3	Spectre	MON
2157z	17/04 [03407 39676 72274 55774 40125 00276] 2252z Fair QRN3 QSB3	Spectre	WED
2157z	19/04 [03407 39677 72275 55775 40126 68521] 2252z Fair RTTYQRM3 QSB3	Spectre	FRI
2157z	21/04 [34462 71671 72277 68261 40128 68523] 2252z Fair RTTYQRM3 QSB3	Spectre	SUN
2157z	22/04 [34463 71672 72278 68262 76681 68524] 2252z Fair QRN3 QSB3	Spectre	MON
2157z	24/04 [34465 71674 07132 68264 76682 68526] 2252z Fair QRN3 QSB3	Spectre	WED
2157z	26/04 [34465 71674 07132 68264 76683 68526] 2252z Fair QRN3 QSB3	Spectre	FRI
2157z	28/04 [34465 71674 07132 68264 76683 68526] 2252z Fair QRN3 QSB3	Spectre	SUN
2157z	29/04 [34465 71674 07132 68264 76683 68526] 2252z Fair QRN3 QSB3	Spectre	MON

11530kHz2257z	14/04 [03405 39674 72272 55776 40123 00274] 2352z Fair QRN3 QSB3	Spectre	SUN
2257z	15/04 [03406 39675 72273 55773 40124 00275] 2352z Fair QRN3 QSB3	Spectre	MON
2257z	17/04 [03407 39676 72274 55774 40125 00276] 2352z Weak QRN4 QSB3	Spectre	WED
2257z	19/04 [03407 39677 72275 55775 40126 68521] 2352z Fair QRN3 QSB3	Spectre	FRI
2257z	21/04 [34462 71671 72277 68261 40128 68523] 2352z Fair QRN3 QSB3	Spectre	SUN
2257z	22/04 [34463 71672 72278 68262 76681 68524] 2352z Fair QRN3 QSB3	Spectre	MON
2257z	24/04 [34465 71674 07132 68264 76682 68526] 2352z Fair QRN3 QSB3	Spectre	WED
2257z	26/04 [34465 71674 07132 68264 76683 68526] 2352z Fair QRN3 QSB3	Spectre	FRI
2257z	28/04 [34465 71674 07132 68264 76683 68526] 2352z Fair QRN3 QSB3	Spectre	SUN
2257z	29/04 [34465 71674 07132 68264 76683 68526] 2352z Fair QRN3 QSB3	Spectre	MON



12120kHz0857z	16/04 [03406 39675 72273 55773 40124 00275] 0952z Fair QRN3 QSB3	Spectre	TUE
0957z	16/04 [03406 39675 72273 55773 40124 00275] 1016z Fair QRN3 (Start on wrong Frequency)	Spectre	TUE
0857z	23/04 [34463 71672 72278 68262 76681 68524] 0952z Fair QRN3 QSB3	Spectre	TUE
12180kHz1016z	16/04 [03406 39675 72273 55773 40124 00275] 1052z Weak QRN4 QSB3	Spectre	TUE
1000z	23/04 [34463 71672 72278 68262 76681 68524] 1052z Weak QRN3 QSB3	Spectre	TUE
16180kHz2057z	16/04 [03407 39676 72274 55774 40125 00276] 2152z Weak QRN3 QSB3	Spectre	TUE
2057z	18/04 [03407 39676 72274 55774 40125 00276] 2152z Fair QRN3 QSB3	Spectre	THU
2057z	20/04 [34461 39678 72276 55776 40127 68522] 2152z Weak QRN3 QSB3	Spectre	SAT
2057z	23/04 [34464 71673 07131 68263 76681 68525] 2152z Fair QRN3 QSB3	Spectre	TUE
2057z	27/04 [34465 71674 07132 68264 76683 68526] 2152z Fair QRN3 QSB3	Spectre	SAT
17480kHz2157z	13/04 [03404 39673 72271 55775 40122 00273] 2252z Fair QRN3 QSB3	Spectre	SAT
2157z	16/04 [03407 39676 72274 55774 40125 00276] 2252z Fair QRN2 QSB2	Spectre	TUE
2157z	18/04 [03407 39676 72274 55774 40125 00276] 2252z Fair QRN2 QSB2	Spectre	THU
2157z	20/04 [34461 39678 72276 55776 40127 68522] 2252z Weak QRN3 QSB3	Spectre	SAT
2157z	23/04 [34464 71673 07131 68263 76681 68525] 2252z Fair QRN3 QSB3	Spectre	TUE
2157z	25/04 [34465 71674 07132 68264 76682 68526] 2252z Weak QRN3 QSB3	Spectre	THU
2157z	27/04 [34465 71674 07132 68264 76683 68526] 2252z Weak QRN3 QSB3	Spectre	SAT
17540kHz2257z	13/04 [03404 39673 72271 55775 40122 00273] 2352z Fair QRN3 QSB3	Spectre	SAT
2302z	16/04 [03407 39676 72274 55774 40125 00276] 2352z Weak BCQRM3 QSB3	Spectre	TUE
2300z	18/04 [03407 39676 72274 55774 40125 00276] 2352z Fair QRN2 QSB2	Spectre	THU
2257z	23/04 [34464 71673 07131 68263 76681 68525] 2352z Weak QRN3 QSB3	Spectre	TUE
2300z	25/04 [34465 71674 07132 68264 76682 68526] 2352z Weak QRN3 QSB3	Spectre	THU
2300z	27/04 [34465 71674 07132 68264 76683 68526] 2352z Weak QRN3 QSB3	Spectre	SAT
11530kHz2258z	29/04[34465 71674 07132 68264 76683 68526 R4m ... cont] 2313z Weak QRM4 QSB3	JkC	MON

PoSW has also taken an interest in this new Cuban offering:

3-Mar-13, Sunday:- 0759 UTC, 9,330 kHz, HM01 starting up on the wrong frequency, 9,330 established as the frequency for an hour earlier. Carrying on a tradition from the days of V02a when the 0800z transmission would often fire up on 5,883 kHz, the frequency used for the 0700z sending instead of moving to 5,898, usually doing a QSY after a few minutes when someone in Cuba realised what was going on. A similar situation here, calling "16222 48267 45615 03743 51101 32806", vanished during the call-up and came up on the correct frequency for a nominal 0800z transmission, 9,065 kHz. 0900 UTC, 9,240 kHz, "16222 48267 45615 03743 51101 32806", as earlier.

8-Mar-13, Friday:- 0700 UTC, 9,330 kHz, "18832 14675 28764 43162 51106 81604", data started 0701z. Also, a weak broadcast station on this frequency, American style English.

9-Mar-13, Saturday:- 0858 UTC, early start for what is presumably intended to be a 0900z transmission, 12,120 kHz, "18833 14676 28765 42163 83061 81605". A broadcast station on the same frequency and a weaker FSK/RTTY type signal close by making for difficult copy at times.
1000 UTC, 12,180 kHz, in progress with call-up when tuned in just before the hour, 5F groups as earlier, data started 1001z, S9 with QSB on a clear frequency.

10-Mar-13, Sunday:- 0758 UTC, 9,065 kHz, "18834 14677 28766 43164 83062 81606", data noise started just before 0801z, S9 signal with QSB.
0858 UTC, 9,240 kHz, 0858 UTC, same 5F groups as earlier.
2137 UTC, 11,635 kHz, transmission in progress in the UK evening time, shown in E2k75.
Was also on this frequency at 2202 UTC when should have done a QSY to 10,715. Also a Chinese language broadcast station now running on 11,635.
2215 UTC, 10,715 kHz:- checked again nearly fifteen minutes later, HM01 now gone from 11,635 and moved to 10,715.

11-Mar-13, Monday:- 2200 UTC, 10,715 kHz, "18836 63372 35402 43166 83064 65051",
in progress when tuned in just before the hour, into data mode just before 2201z, peaking S9.

13-Mar-13, Wednesday:- 2209 UTC, 10,715 kHz, transmission in progress, 5F group "38831" heard after 2210z, strong FSK idler on LF side.

16-Mar-13, Saturday:- 0859 UTC, 12,120 kHz, "38831 63373 35403 52561 83065 65052".
S9+, very strong signal.

1000 UTC, 12,180 kHz, in progress when tuned in just before the hour, 5Fs as earlier, S6 to S7.

17-Mar-13, Sunday:- 0758 UTC, 9,065 kHz, call-up stopped and started several times, "38831 63373 35403 52561 83065 65052", data noise before 0801z. Same 5Fs as yesterday.

20-Mar-13, Wednesday:- 0658 UTC, 9,330 kHz, "38831 63373 35403 52561 83065 65052".
Those 5F groups again. S9 signal, good audio, data noise started before 0701 UTC.
2158 UTC, 10,715 kHz, 5Fs as this morning, S6 to S7.

22-Mar-13, Friday:- 0658 UTC, 9,330 kHz, "38831 63373 35403 52561 83065 65052", not much change there! Data started 0700 and 40s UTC.
2140 UTC, 11,635 kHz, transmission in progress, S9 signal, 5F group "38831" heard shortly after being tuned in.
2158 UTC, 10,715 kHz, 5Fs same as heard on 9,330 kHz.

24-Mar-13, Sunday:- 0758 UTC, 9,065 kHz, "38831 63373 35403 52561 83065 65052". S9 signal with good audio, several short pauses in the call-up.
0858 UTC, 9,240 kHz, S7 with deep QSB, 5Fs as earlier.

27-Mar-13, Wednesday:- 0658 UTC, 9,330 kHz, new 5F groups this morning, "24082 22813 22365 60153 50272 01644".

29-Mar-13, Friday:- 0758 UTC, 9,065 kHz, "24084 22815 86151 60155 50274 26741". S9 with deep QSB.
0900 UTC, 9,240 kHz, carrier only when checked just before the hour; faint data noise and one 5F group heard around 0915z, then silence. Was running much as normal when checked again 0931z.

1-Apr-13, Monday:- 2159 UTC, 10,715 kHz, several starts and stops during the call-up, "58363 40853 86155 44183 84753 26745".

4-Apr-13, Thursday:- 2159 UTC, 17,480 kHz, "58366 04861 86158 44186 84756 26748".
Data noise began after 2200z. S7 to S8 with good audio. Surprised to find a transmission from Cuba making the trip so late in the evening. This was the strongest signal in the 17 – 18 MHz part of the spectrum.

5-April-13, Friday:- 0505 UTC, 5,855 kHz, must have been a late start, still in call-up mode at five minutes past the hour, "58366 04861 86158 44186 84756 26748". S9+ signal.
0558 UTC, 10,345 kHz, 5Fs as earlier, S6 to S7, data started approx. 30 seconds past the hour.
2108 UTC, 11,635 kHz, a strong broadcaster on this frequency, HM01 just about audible underneath, sounded like Spanish language 5F "44405" just after 2110z.

9-Apr-13, Tuesday:- 2058 UTC, 16,180 kHz, "44384 25542 20242 87723 40831 25712".
Data began approx. 25s past the hour.

10-Apr-13, Wednesday:- 0536 UTC, 5,855 kHz, transmission in progress, S9+, heard "20242" around 0537z, "87723" shortly after.
0558 UTC, 10,345 kHz, "44384 25542 20242 87723 40831 25712", same as heard on 16,180 yesterday.
2200 UTC, 10,715 kHz, carrier only at first, no voice heard until after 2201z, "44385 25543 20243 87724 40832 25713" - each 5F group "one up" on those heard on 10,345 this morning. S8 to S9, good audio.

12-Apr-13, Friday:- 2158 UTC, 10,715 kHz, "03402 39672 20246 87727 45151 25716", peaking S9, data started 20 seconds past the hour.
2258 UTC, 11,530 kHz, two minutes to midnight in the UK, 5F groups as earlier, S7 to S9, good audio.

13-Apr-13, Saturday:- 0858 UTC, 12,120 kHz, "03402 39672 20246 87727 45151 25716", same as heard last night. S9+, very strong signal, weak FSK/RTTY signal on close frequency.

18-Apr-13, Thursday:- 2202 UTC, 17,480 kHz, missed start, transmission in progress at two minutes past the hour, listened for a couple of minutes, heard 5F groups "55774" and 240125".

19-Apr-13, Friday:- 0558 UTC, 10,345 kHz, "03407 39676 72274 55774 40125 00276".

21-Apr-13, Sunday:- 0658 UTC, 9,330 kHz, "34461 39678 72276 55776 40127 68522".

22-Apr-13, Monday:- 0558 UTC, 10,345 kHz, "34462 71671 72277 68261 40128 68523".

24-Apr-13, Wednesday:- 0558 UTC, 10,345 kHz, "34464 71673 07131 68263 76682 68525".
S7 with deep QSB. Call-up in progress when tuned in just before 0558z, data started just after 0600z.

VOICE STATIONS

E06

RNGB's E06 log March:

Thurs 7th	07:00	15845	'864' 153 101 88603 87228 12214 05631 86462.....42823
	20:30	5186	'891' 116 15 17323 92836 15205 38945 14834.....09253
Friday 8th	06:00	13890	'864' 153 101 88603 87228 12214 05631 86462.....42823
	07:00	15855	'864' 153 101 88603 87228 12214 05631 86462.....42823
	21:30	5197	'634' 561 15 34543 56432 34265 67865 98787.....67453
Weds 13th	19:20	4588	'218' 00000
	20:20	4060	'218' 00000
Sun 17th	11:20	7564	'218' 00000
	12:20	6853	'218' 00000

E06 log April:

Thurs 4th	06:00	14910	'951' 638 102 37339 12011 10155 58041 74435.....66079
	20:30	5189	'891' 116 15 17323 92836 15205 38945 14834.....09253
Friday 5th	21:30	5197	'634' 561 15 34543 56432 34265 67865 98787.....67453
Thurs 18th	06:00	14910	'951' 638 102 37339 12011 10155 58041 74435.....66079

E06 Other's logs

March2013:

5186kHz2030z 07/03[891 116 15 17323 … 09253 116 15 00000(s)] Very strong (9m00s) Spectre, HJH, FR THU

891 116 15
17323 92836 15205 38945 14834
27954 18364 19356 20176 29476
18392 73624 05732 17283 09253
116 15 00000 *Courtesy FR/ Spectre*

2030z 21/03[891 116 15 17323 … 09253 116 15 00000(s)] 2039z Very strong (8m57s) Spectre, PLdn,CH10 THU

5197kHz2130z 08/03[634 561 15 34543 ... 67453 561 15 00000(s)] (8m03s) CH10, Spectre FRI
2130z 22/03[634 561 15 34543 ... 67843 561 15 00000 (s)] 2150z Spectre,CH10 FRI

E06 5197kHz 2130z 08-22/03 Transcript:

634 561 15
34543 56432 34265 67865 98787
45311 89866 45362 76756 98786
34276 56342 63472 78643 67453
561 15 00000(s) *Courtesy Spectre*

13890kHz0600z 08/03[864 153 101 88603 ... 42823 153 101 00000] Very strong signal, weak/moderate noise FR FRI

864 153 101
88603 87228 12214 05631 86462 38619 65497 32937 73192 03813
99098 38615 37494 92695 69356 63928 58312 88640 11364 00534
49849 67319 01805 98421 69957 32420 06260 96218 40347 10438
21928 78520 52048 71739 51689 89981 54568 70081 70457 10814
52170 17778 69757 23412 55728 38694 91451 24772 63572 66266
86580 64398 69792 78721 60224 12393 23405 88699 88342 87401
86845 29447 17525 99108 67212 04795 83591 84980 18704 95075
09970 45924 39678 36204 71804 10565 12788 14073 36719 82822
61612 41478 18184 52477 22235 09749 02409 73411 53197 32271
34717 39209 32271 22093 76327 10819 13480 70804 67479 75940
42823 153 101 00000 *Courtesy FR*

0600z 22/03[864 153 101, repeat from 08/03] Very strong signal, weak noise FR FRI

April2013:

5189kHz 2030z 04/04[891 116 15 11323 ... 09523 116 15 00000(s)]
Very strong signal, moderate noise, heavy audio distortion, error(?) transmission a few kHz higher than in schedule. FR THU
Transmission was moved due to strong Heterodyne on freq from start, went into data tx. PLdn THU

891 116 15
11323 92836 15205 38945 14834
20954 18364 19356 20176 29476
18392 73624 05732 17283 09253
116 15 00000 *Courtesy FR Spectre*

1933z 18/04[1234 0 1332 0] STRANGE TEST COUNT 1936z Fair QRN2 QSB2 Spectre THU
2030z 18/04[891 116 15 17323 ... 09253 116 15 00000(s)] 2037z Fair QRN2 QSB2 Spectre THU

5197kHz 2130z 05/04[634 561 15 34543 ... 67453 561 15 00000] 2136z CH10, Spectre FRI

634 561 15
34543 56432 34265 67865 98787
45311 89866 45362 76756 98786
34276 56342 63472 78643 67453
561 515 00000 *Courtesy CH10*

2130z 19/04[634 561 15 34543 ... 67453561 15 00000(s)] 2136z VERY STRONG QSB2 CH10, Spectre FRI

6853kHz1220z 14/04[218 218 218 0 0 0 0 0] 1223z repeat; again via WebSDR, again distorted/crackling modulation. DanDe MON

7564kHz1120z 14/04[218 218 218 0 0 0 0 0] 1123z via WebSDR QSA4 QRM3 QSB2 distorted/crackling modulation. Stayed tuned, at 1126z suddenly again numbers "012 (noise) 4" r, stopping the same minute DanDe MON

13530kHz0500z 05/04[951 638 102 37339 ... 66079 638 102 00000] Very Strong, noise, bleeding from letter beacon D FR, Hans FRI

951 638 102
37339 12011 10155 58041 74435 21915 15301 29366 96444 45890
39875 51046 75352 75283 72732 02874 62729 06008 58734 10702
70534 86308 56366 28251 48890 49397 19658 40498 71775 85642
77871 55831 66553 33995 11368 79163 48298 97331 47115 83193
44832 11426 22251 19996 23434 22207 89156 40128 55132 51017
60473 11453 77549 52537 17489 54843 42204 95078 30353 38983
57231 17927 63532 01426 61449 45422 64971 88116 90779 62464
62373 28555 22473 81135 15045 88796 09543 53118 94758 69463
38894 07607 94039 40970 76545 19390 85340 33144 84393 36799
79536 21420 19967 24208 57163 76814 55021 98769 70855 71850
73923 66079 951 638 102 00000 *Courtesy FR*

0500z 18/04[951 638 102 37339 ... 66079 638 102 00000] 0521z Vienna GT tiNG THU
0500z 19/04[951 638 102 37339 ... 66079 638 102 00000] Very strong, Letter BeaconQRM FR FRI

PoSW sends his E06 logs for both months, in schedule detail:

First + Third Thursdays in the Month 2030 UTC Schedule:-
7-Mar-13:- 5,186 kHz, calling "891", DK/GC "116 116 15 15", S9+, good audio, no sign of the distortion or "rasping" noise often present in the past.

21-Mar-13:- 5,186 kHz, "891" and "116 116 15 15" again, good audio.

4-Apr-13:- 5,189 kHz, call "891", DK/GC "116 116 15 15" - same as in March. The ghastly rasping noise on the speech is back.

18-Apr-13:- 5,189 kHz, "891" and "116 116 15 15" again, good audio with no distortion.

Friday Following the First + Third Thursdays in the Month 2130 UTC Schedule:-
8-Mar-13:- 5,197 kHz, call "634", DK/GC "561 561 15 15", strong signal with good audio.

22-Mar-13:- 5,197 kHz, "634" and "561 561 15 15", good signal.

5-Apr-13:- 5,197 kHz, call "634", DK/GC "561 561 15 15", same as in March as with yesterday's 2030Z transmission, and also with the return of distortion on the audio.

19-Apr-13:- 5,197 kHz, "634" and "561 561 15 15", good signal with no unpleasant audio.

Second Wednesday in the Month 1920 + 2020 UTC Schedule:-
13-Mar-13:- 1920 UTC, 4,588 kHz, "218 218 218 00000", S8 with good audio.
2020 UTC, 4,060 kHz, second sending, and unlike the first transmission this had the unpleasant rasping noise on the audio.

10-Apr-13:- 1920 UTC – but started almost a minute early - 4,588 kHz, and, by way of a change, came up not with E06 OM voice but in M14 Morse! "218 218 218 00000". Thought this was something on a close frequency, realised that "218" was the expected call and that the mode of transmission was constant carrier keyed audio tone MCW. Weird or what?
A check on on 4,588 at around 1833 UTC found the carrier up and the E06 OM voice repeating "1 2 3 4 0" over and over.
2019 UTC, just after, 4,060 kHz, no surprises here, second sending had usual E06 voice with "218 218 218 00000".

Sunday Following the Second Wednesday in the Month 1120 + 1220 UTC Schedule:-
17-Mar-13:- 1120 UTC, 7,564 kHz, "218 218 218 00000", weak but clear signal.
1220 UTC, 6,853 kHz, second sending, very weak signal, only just detectable, not found until after 1223 UTC.

14-Apr-13:- 1120 UTC, 7,564 kHz, "218 218 218 00000", very weak signal, only just detectable. Same frequency as in March. No sign of a 1220 UTC sending on 6,853 kHz, not the slightest trace. If it was transmitted on this frequency it wasn't making it to my part of the world!

First + Third Thursdays in the Month 0500 and 0600 UTC Schedule:-
I lost track of this schedule in the winter months, mainly because I couldn't find the enthusiasm to play radio on the cold, dark mornings of the worst winter for years; but contact re-established in April:-
4-Apr-13:- 0500 UTC, 13,530 kHz, calling "951", DK/GC "638 638 102 102".
0600 UTC, 14,910 kHz, second sending. Same frequencies as in April last year.

5-Apr-13, Friday:- 0500 UTC, 13,530 kHz and 0600 UTC, 14,910 kHz, "next day repeats" of
"951" and "638 638 102 102"/

18-Apr-13, 0600 UTC, 14,910 kHz, "951" and "638 638 102 102".

19-Apr-13, Friday:- 0500 UTC, 13,530 kHz, first sending of "next day repeat".
0600 UTC, 14,910 kHz, second sending.

E07

RNGB's E07 March log:

Friday 1st	08:00	20841	'874' 000
Mon 4th	20:40	6873	'288' 1 864 50 58706 07673 35044 04952.....
Weds 6th	20:00	9273	'288' 1 864 50 58706 07673 35044 04952.....
Thurs 7th	21:10	7516	'584' 000
Friday 8th	08:00	20841	'874' 1 651 287 37044 46484 18444 99834.....73173
	08:30	18741	'874' 1 651 287 37044 46484 18444 99834.....73173
Tues 12th	08:00	20841	'874' 1 418 151 04485 61669 86241 08824.....00399
Weds 13th	20:00	9273	'288' 000
Friday 15th	08:00	20841	'874' 1 144 221 25741 40329 31196 89072.....33305
Mon 18th	20:00	9273	'288' 000
Weds 20th	20:00	9273	'288' 000
Mon 25th	20:00	9273	'288' 000
Sun 31st	18:00	13439	'417' 1 393 90 57599 12953 49911.....68230 22698
	18:20	12139	'417' 1 393 90 57599 12953 49911.....68230 22698
	18:40	10739	'417' 1 393 90 57599 12953 49911.....68230 22698

E07 April log:

Mon 1st	19:20	10708	'172' 000
Weds 3rd	17:00	14603	'641' 1 304 135 42142 38396 18174 16211.....03401
	17:20	13403	'641' 1 304 135 42142 38396 18174 16211.....03401
	17:40	12103	'641' 1 304 135 42142 38396 18174 16211.....03401
Weds 3rd	19:00	12108	'172' 000
Thurs 4th	20:10	9387	'358' 1 652 156 55341 27296 65900.....32574
Sun 7th	17:00	14603	'641' 1 304 135 42142 38396 18174 16211.....03401
Weds 10th	17:00	14603	'641' 000
	19:00	12108	'172' 1 817 40 02523 84934 30970 35515.....70427
Weds 17th	17:00	14603	'641' 1 261 60 01417 53136 13687 86898.....15849

Thurs 18th	20:50	5884	'358' 1 76 131 30389 63198 72247 37216.....
Mon 22nd	19:00	12108	'172' 1 797 123 17383 38798 03889 59661.....
Sun 28th	17:00	14603	'641' 000

PoSW's schedule oriented logs:

So used to saying "frequencies the same for any given month as in past years" for E07, but in March the Sunday + Wednesday schedule decided to break the habit and move to a new trio of frequencies.

Sunday + Wednesday Schedule, 1800 UTC start, shifted by one hour in April:-
3-March-13, Sunday:- expected to find E07 at 1800 UTC on 9,923 kHz as in March of previous years but nothing heard. Also no sign of second sending on expected frequency of
9,068 kHz. But:-
1821 UTC, 12,139 kHz, E07 found calling up, change of frequencies then, that's unusual!
"417 417 417 1", DK/GC "614 79" x 2, S9+ with good audio.
1840 UTC, 10,739 kHz, third sending

6-Mar-13, Wednesday:- 1800 UTC, 13,439 kHz, the first sending frequency of this new schedule, "417" and "614 79", as on Sunday. S8, good audio.
1820 UTC, 12,139 kHz, second sending, S9.
1840 UTC, 10,739 kHz, third sending, S9 with QSB.

10-Mar-13, Sunday:- 13,439 kHz, "417 417 417 000", S9 with good audio.

13-Mar-13, Wednesday:- 1800 UTC, 13,439 kHz and 1820 UTC, 12,139 kHz, "417 417 417 000", both strong signals with good audio.

17-Mar-13, Sunday:- 1800 UTC, 13,439 kHz, "417 417 417 000", S9+, good audio.
1820 UTC, 12,139 kHz, second sending, surprisingly a much weaker signal, S6 with rapid QSB.

3-Apr-13, Wednesday:- 1700 UTC, 14,603 kHz, has moved by one hour so still starts at 6 PM in the UK, "641 641 641 1", DK/GC "304 135" x 2. S9 signal with good audio. Long message, ended with "000 000" just after 1716 UTC.
1720 UTC, 13,403 kHz, second sending, S9+ with good audio.
1740 UTC, 12,103 kHz, third sending, again S9+ with good audio.
Continuing the theme of breaking with the frequencies used for years.

10-Apr-13, Wednesday:- 1700 UTC, 14,603 kHz, "641 641 641 000", S9 with good audio.

14-Apr-13, Sunday:- 1720 UTC, 13,403 kHz, second sending, "641 641 641 1", DK/GC "261 60" x 2. S9 signal, good audio.
1740 UTC, 12,103 kHz, third sending.

17-Apr-13, Wednesday:- 1704 UTC, 14,603 kHz, first sending in progress, missed the start,
signal much weaker than on previous occasions.
1720 UTC, 13,403 kHz, "641 641 641 1", DK/GC "261 60" x 2. Same message as on Sunday. Much better signal than on 14,603.
1740 UTC, 12,103 kHz, third sending.

Monday + Wednesday Schedule, 2000 UTC Start in March, 1900 UTC in April for the Summer Months.
6-Mar-13, Wednesday:- 2000 UTC, 9,273 kHz, "288 288 288 1", DK/GC "864 50" x 2.
Audio somewhat low but readable.
2020 UTC, 7,873 kHz, second sending, S9 with better audio.
2040 UTC, 6,873 kHz, third sending, S9+ with good audio, best sending of the three. Same frequencies as in March of previous years.

13-Mar-13, Wednesday:- 2000 UTC, 9,273 kHz, "288 288 288 000", S9+ with very good audio.

18-Mar-13, Monday:- 2000 UTC, 9,273 kHz and 2020 UTC, 7,873 kHz, "288 288 288 000",
both strong with good audio.

1-Apr-13, Monday:- 1900 UTC, 12,108 kHz, now moved by one hour UTC so still starts at 8 PM in the UK. "172 172 172 000". Strong BC station on close frequency, sounds like Arabic language.
1920 UTC, 10,708 kHz, second sending, S9+, good audio.

8-Apr-13, Monday:- 1900 UTC, 12,108 kHz, "172 172 172 1", DK/GC "817 40" x 2. BC QRM reduced by using receiver in LSB mode.
1920 UTC, 10,708kHz, second sending, good signal.
1940 UTC, 9,208 kHz, third sending, strong signal with good audio.

Thursday Schedule, 2110 UTC in March, shifted to 2010 UTC in April:-
7-Mar-13:- 2110 UTC, 7,516 kHz, "584 584 584 000". Low audio plus strong BC station on
7,520 kHz making copy difficult.
2130 UTC, 5,836 kHz, second sending, S9 carrier but audio somewhat low.

14-Mar-13:- 2110 UTC, 7,516 kHz, "584 584 584 000". Good signal and good audio this evening. Interference from BC station on 7,520 reduced by using RX in LSB or narrow AM.

18-Apr-13:- 2010 UTC, 9,387 kHz, "358 358 358 1", DK/GC "763 131" x 2, strong BC station on 9,390 kHz.
2030 UTC, 7,526 kHz, second sending, S9 with good audio.
2050 UTC, 5,884 kHz, third sending, idling FSK signal on LF side.

Wednesday E07a SSB Schedule, 2100 UTC Start in March - 2000 UTC start in April:-
6-Mar-13:- 2100 UTC, 5,864 kHz, "815 815 815 000", S9+ SSB signal.
2120 UTC, 5,164 kHz, second sending, also S9+.

20-Mar-13:- 2100 UTC, 5,864 kHz and 2120 UTC, 5,164 kHz, both S9+, “815 815 815 000”.

27-Mar-13:- 2103 UTC, 5,864 kHz, in progress with full message, missed the start. Usual very strong SSB.
2120 UTC, 5,164 kHz, “815 815 815 1 14834”, DK/GC “7337 54”. S9+.
2140 UTC, 4,564 kHz, third sending, S9+.

And the month of April sees a change of frequencies for the summer months and a shift in time by one hour so as to still start up at 9 PM:-
3-Apr-13:- 2000 UTC, 8,173 kHz, “147 147 147 000”, S9+.
2020 UTC, 7,473 kHz, second sending, also very strong.

Saturday E07a SSB Schedule, 0900 UTC start in March, - 0800 UTC start in April:-
9-Mar-13:- 0900 UTC, 11,133 kHz, “114 114 114 000”.
0920 UTC, 12,133 kHz, second sending. These Saturday morning E07a transmissions are not like the S9+ rock-crusher signals heard on the Wednesday evening schedule - but they are strong enough!

16-Mar-13:- 0900 UTC, 11,133 kHz, “114 114 114 000”.

23-Mar-13:- 0900 UTC, 11,133 kHz and 0920 UTC, 12,133 kHz, “114 114 114 000”.

30-Mar-13:- 0900 UTC, 11,133 kHz, a “full message” this morning, “114 114 114 1 19187”,
DK/GC “537 83” x 2.
0920 UTC, 12,133 kHz, second sending.
0940 UTC, 13,433 kHz, third sending, weakest signal of the three transmissions.

13-Apr-13:- 0800 UTC - “summertime and the living is easy” - not! Still starts at 9 AM in the UK. 12,218 kHz, “244 244 244 000”.
0820 UTC, 13,418 kHz, second sending.

27-Apr-13:- 0800 UTC, 12,218 kHz, a “full message” this morning, “244 244 244 1 34935”,
DK/GC “4527 65” x 2.
0820 UTC, 13,418 kHz, second sending.
0840 UTC, 14,418 kHz, third sending, weakest signal of the three.

Onto others’ logs

March2013:

5836kHz2130z	07/03[584 000] Strong carrier, very weak audio, odd character only	(2m14s)	MP, PLdn	THU
2130z	14/03[584 000] Strong	(2m14s)	PLdn	THU
2130z	21/03[584 000] Weak, noisy	(2m14s)	PLdn	THU
2130z	28/03[584 000] Fair	(2m14s)	PLdn	THU
6873kHz2040z	04/03[288 1 864 50 58706 … 03955 000 000] Strong, QRM2	(7m38s)	PLdn	MON
2040z	06/03[288 1 864 50 58706 … 03955 000 000] Weak	(7m38s)	PLdn	WED
7516kHz2110z	07/03[584 000] Fair	(2m14s)	HJH, FR	THU
2110z	14/03[584 000] Strong	(2m14s)	PLdn	THU
2110z	21/03[584 000] Fair, BCQRM3	(2m14s)	PLdn	THU
2110z	28/03[584 000] Fair, BCQRM3	(2m14s)	PLdn	THU
7873kHz2020z	04/03[288 1 864 50 58706 … 03955 000 000] Fair, QRM2	(7m38s)	PLdn	MON
2020z	06/03[288 1 864 50 58706 … 03955 000 000] Weak	(7m38s)	PLdn	WED
2020z	11/03[288 000] Fair audio, very strong carrier	(2m14s)	PLdn, CH10	MON
2020z	13/03[288 000] Very strong	(2m14s)	PLdn	WED
2020z	18/03[288 000] Weak audio, strong carrier.	(2m14s)	PLdn, tiNG	MON
2020z	20/03[288 000] Strong audio.	(2m14s)	PLdn	WED
2020z	25/03[288 288 288 000 R2m] 2022z QSA3 QRM4 QRN4 QSB3		tiNG, CH10, HJH	MON
2020z	27/03[288 000] Strong audio.	(2m14s)	PLdn, CH10	WED
9273kHz2000z	04/03[288 1 864 50 58706 … 03955 000 000] Fair, QRM3	(7m38s)	PLdn	MON
2000z	06/03[288 1 864 50 58706 … 03955 000 000] Weak, QRM3	(7m38s)	PLdn	WED
2000z	11/03[288 000] Fair, QRM3	(2m14s)	CH10, PLdn	MON
2000z	13/03[288 000] Very strong	(2m14s)	PLdn	WED
2000z	18/03[288 000] Fair	(2m14s)	PLdn, tiNG	MON
2000z	20/03[288 000] Very strong carrier, little audio,	(2m14s)	PLdn	WED
2000z	25/03[288 288 288 000 R2m] 2002z QSA3 QRM5 QRN4 QSB3		tiNG, CH10, HJH	MON
2000z	27/03[288 000] Fair, QRM3	(2m14s)	PLdn, CH10	WED
17441kHz0820z	05/03[874x3 1 716 157 716 157]		GD	TUE
0900z	08/03[894 1 651 287 37044 ... 73173 000 000] Very strong signal, weak/moderate noise		FR	FRI

17741kHz0850z 15/03[874 1 144 221 74*** ... 33305 000 000] Very strong, QRM, QSB FR FRI

874 1 144 221
25741 40329 31196 89072 80446 61422 24787 43013 82114 13050
61462 02524 28233 67100 40460 27226 12065 29670 38577 24618
16100 10854 96704 41341 14974 41704 64521 25721 17764 99255
93733 55931 76241 93631 24666 76171 53869 28600 28408 91084
01909 42869 28600 28408 91084 80109 17716 87320 52261 61700
**339 52416 87228 72787 90145 13768 26314 85852 36130 38333
25644 51418 38020 *4269 65943 ***35 07447 18823 98844 51947
41952 58982 06742 18204 83688 42013 35545 29524 03047 38336
76355 46465 21356 59743 21943 08077 84508 22065 18043 46218
35750 91807 41129 31182 91444 93862 32836 91594 33472 39672
90851 97705 87591 28163 06758 90765 44080 07593 14138 39015
80927 08424 54860 66970 03729 5140* 81176 27881 42022 48540
34702 31690 73827 66771 56542 64452 91475 63949 55856 11248
66535 42865 02039 87865 62103 38153 54390 05881 82976 72477
63840 02899 70666 97315 34139 39168 18937 31087 98604 87373
71266 91487 37011 42590 95028 70304 60548 62151 72030 10914
06614 44178 61655 04247 176*0 55838 06**4 340*2 93042 86649
96040 30368 79060 05662 41433 97278 45483 90516 02537 11340
36092 **644 77522 93142 83742 48560 57333 50037 22636 81170
35935 82410 77966 36648 48836 68550 10520 25592 06867 19087
64504 88294 00518 47959 84144 16338 12363 73284 44112 23299
12392 93456 05585 49877 76083 74635 42943 55872 50303 36841
33305 000 000 Courtesy FR/RNGB

18741kHz0840z 05/03[874x3 1 716 157 716 157] GD TUE
0830z 08/03[894 1 651 287 37044 ... 73173 000 000] Very strong signal, weak/moderate noise FR FRI

20841kHz0800z 05/03[874x3 1 716 157 716 157] GD TUE
0800z 08/03 [as below] Can confirm signal but local interference too strong to copy FR FRI

894 1 651 287
37044 46484 18444 99834 40994 60259 40460 71653 89167 03482
79366 84467 42384 28761 00884 21792 95616 97186 50777 46046
34733 19166 91275 22184 66014 32378 43856 53677 96443 64713
77470 85373 71826 81905 19696 64726 88714 94283 73817 66654
64344 56776 73046 45548 56492 65762 17240 90572 75862 86659
40471 26872 01934 70667 04568 18231 13869 95855 96992 21871
53098 03687 25376 93009 94977 64701 46800 66095 62858 50239
69688 04403 04423 10442 61601 34930 26560 61227 61335 07824
51400 40829 41239 25836 87616 65624 34050 08866 29837 55455
52199 99804 27660 37348 77428 58024 06891 98553 23267 63089
02638 35702 90193 80372 78124 77061 32199 74487 88505 90164
42222 61406 90189 67250 49220 63264 71807 59305 44352 84102
53975 64201 01452 59103 44946 27258 62302 97811 13495 31689
13381 62580 56608 30443 41817 83695 74735 45288 13083 52430
12154 08556 87950 39282 79206 02175 47249 24180 38312 90598
26049 87749 10895 07452 57169 74592 26611 33859 34711 82731
42202 93926 32682 53910 57868 45664 43794 48417 97922 15422
65895 20574 03295 87541 49350 70980 45465 02919 79652 15772
37045 61357 26621 82752 31551 04330 74165 45833 17809 40743
83706 30860 67948 17524 82630 92502 55911 70553 15131 22979
89566 50389 67852 17308 13556 05897 78077 78062 66547 10476
50210 36177 99819 04805 66959 25643 88200 55682 39113 11576
59952 88504 08912 88529 13405 80271 72715 86444 51868 46282
49968 37238 69666 89243 91755 91149 40194 78433 90108 94317
02275 67636 28473 15895 29567 03986 40926 71834 16145 72417
50621 38884 46466 92962 70894 80715 52762 13658 41391 36886
15794 16690 88992 92253 05856 82201 78433 59440 53537 58496
00342 33620 87516 90678 31193 52069 26963 41470 09799 06266
63572 38169 07865 07117 36301 22285 73173
000 000 *Courtesy FR*

0800z 12/03[874 418 151 418 151] GD TUE
0800z 15/03[874x3 1 144 221 144 221] GD FRI
See XPA2 'others' for continuation of these messages as station converted

April2013:

5884kHz2050z 04/04[358 652 156 55341 ... 32574 000 000] Very strong signal, weak noise, bleeding FR, CH10 THU
2050z 11/04[358 1 652 156, repeat from 04/04] Very strong signal, weak noise, some bleeding FR THU
2050z 18/04[358 1 763 131 30389 ... 78677 000 000] Strong FR THU
2106z 25/04[358 1 763 131, repeat from 18/04] Strong signal, weak noise, bleeding FR, JkC THU

7526kHz2030z 04/04[358 652 156 55341 ... 32574 000 000] Very strong signal, weak noise FR THU

358 652 156
55341 27296 65900 96381 66012 41996 57186 89140 23513 57261
28794 95238 50915 18101 03811 33638 77640 73784 42297 36084
86884 71851 79236 47293 63655 22948 24355 38694 41569 20279
12129 83440 83950 22693 30013 91021 03991 08187 28186 47872
00040 05887 93908 09789 51173 94946 00711 33321 52553 67321
91485 86378 76056 98322 76654 01354 48915 75587 17946 87480
19174 63399 70975 44420 68606 17126 15746 27064 28102 79076
98680 70166 92969 87047 04900 59377 35209 41450 64114 69147
52437 09338 15276 49209 99556 67913 52015 49204 35878 56245
72092 67186 46189 81418 10096 68171 34167 97062 66062 42501
64929 61385 41216 41183 74509 55559 21572 47591 65561 45179
91394 54271 84299 54101 57472 16677 91164 37959 31550 69386
52649 84695 41478 10450 59580 93005 78847 91021 90145 03558
28850 76117 57438 94647 15847 28742 89692 76950 86371 89444
85551 28207 75946 40801 25075 93258 70350 82942 79390 85939
36985 89054 20835 69865 55823 32574
000 000 *Courtesy FR (well done Fox)!*

2030z 11/04[358 1 652 156, repeat from 04/04] Very strong signal, weak noise FR THU

2030z	18/04[358 1 763 131 30389 ... 78677 000 000] 2047z Fair QRM4 QSB2		JkC	THU
2043z	25/04[2051z 358 1 763 131, repeat from 18/01] Strong signal, weak noise, very bonkers		FR, JkC	THU

E07 7526kHz 2043z 25/04
358 1 763 131
30389 63198 72247 37216 62075 48866 66748 50554 38092 11979
16786 01072 70049 25539 72461 78326 03417 81735 04202 25903
44136 64323 30845 07202 46499 97840 82838 39063 76552 52312
21905 64803 00060 23206 21269 79268 86630 38300 80753 52977
39254 51696 19267 58190 62013 60658 99922 75183 54466 17644
84966 30250 80124 29284 71620 31864 0
Carrier went off air 2051z
Carrier back on air and brief call-up again at 2052z
358 1 continues traffic from GR48
54466 17644
84966 30250 80124 29284 71620 31864 05681 93120 83879 17324
73289 20448 27889 47929 45694 39223 81279 39452 84673 44167
42150 82065 70027 47706 16335 77059 79143 16673 30281 46913
03706 20669 17950 55315 93864 49961 65482 67158 12238 69686
14593 35319 30533 81207 98109 98685 47014 00705 37719 33594
27059 42224 62356 54712 46014 18505 76609 44534 73966 39324
74303 68069 72744 14185 94761 23306 02708 79566 68556 10227
60341 34544 19682 66652 17329 50697 02027 04579 56965 16381
78677
000 000 *Courtesy JkC*

9208kHz1940z	08/04[172 172 172 1 R2m 817 40 817 40 02523 … 70427 000 000] 1947z QSA5 QRM5 QRN5 QSB4		tiNG, DoK	MON
1940z	15/04[172 1 947 79 05678 … 30830 000 000] Fair, QSB2	(10m30s)	PLdn, HJH, tiNG	MON
1940z	22/04[172 1 797 123 17383 … 79753 000 000]Weak and noisy	(14m55s)	HJH, PLdn, DanDe	MON
1940z	24/04 Text as 1900/1920z Tx probs		JO	WED

9387kHz2010z	11/04[-] Only faintly heard through strong bleeding		FR	THU
2010z	18/04[358 1 763 131 30389 ... 78677 000 000]Strong signal, QRM, QSB		FR	THU

358 1 763 131
30389 63198 72247 37216 62075 48866 66748 50554 38092 11979
16786 01072 70049 25539 72461 78326 03417 81735 04202 25903
44136 64323 30845 07202 46499 97840 82838 39063 76552 52312
21905 64803 00060 23206 21269 79268 86680 38300 80753 52977
39254 51696 19267 58990 62013 60658 99922 75982 54466 17644
84966 30250 80124 29284 71620 31864 05681 93120 83879 17324
73289 20448 27889 47929 45694 39223 81279 39452 84673 44167
42150 82065 70027 47706 16335 77059 79143 16673 30281 46913
03706 20669 17950 55315 93864 49961 65482 67158 12238 69686
14593 35319 30533 81207 98109 98685 47014 00705 37719 33594
27059 42224 62356 54712 46014 18505 76609 44534 73966 39324
74303 68069 72744 54185 94761 23306 02708 79566 68556 10227
60341 34544 19682 66652 17329 50697 02027 04579 56965 16381
78677 000 000 *Courtesy JkC & FR*

10708kHz1920z	01/04[172 000] Very strong	(2m14s)	PLdn	MON
1920z	03/04[172 172 172 000] 1922z Weak QRN3 QSB3		Spectre	WED
1920z	08/04[172 172 172 1 R2m 817 40 817 40 02523 … 70427 000 000] 1927z QSA5 QRM5 QRN4 QSB4		tiNG, DoK	MON
1920z	15/04[172 1 947 79 05678 … 30830 000 000] Weak and noisy audio	(10m30s)	PLdn	MON
1920z	17/04[172 000] Strong	(2m14s)	JkC, PLdn	WED
1920z	22/04[172 1 797 123 17383 … 79753 000 000]Fair	(14m55s)	PLdn	MON
1920z	24/04[172 1 797 123 17383 … 79753 000 000]Poor and noisy	(14m55s)	PLdn, JO	WED
1920z	29/04[172 000] Fair and noisy	(2m14s)	PLdn	MON
12103kHz1740z	14/04[641 1 261 60 01417 ... 95845 000 000] 1748z QSA5 QRM5 QRN4 QSB3		tiNG	SUN
1740z	24/04[641 1 563 86 85539 ... 83655 000] 1751z Fair QRM3 QSB3		JkC	W

12108kHz1900z	01/04 Odd character, strong carrier		PLdn,DanDe	MON
1900z	03/04[172 172 172 000] 1902z Weak QRN3 QSB3		Spectre	WED
1900z	08/04[172 1 817 40 02523 84934 ... 70427 000 000] 1906z Strong BC-QRM3		Hans, DoK	MON
1900z	15/04[172 1 947 79 05678 … 30830 000 000] Weak audio	(10m30s)	PLdn	MON
1900z	17/04[172 000] Weak and noisy	(2m14s)	JkC,PLdn	WED
1900z	22/04[172 1 797 123 17383 … 79753 000 000]Fair	(14m55s)	PLdn,DanDe	MON
1900z	24/04[172 1 797 123 17383 … 79753 000 000]1914z Fair QRM3 QSB3		JkC, PLdn, JO	WED

E07 12108kHz 190z 24/04
172 1 797 123
17383 38798 03889 59661 48683 23372 10885 82869 62200 34594
28510 67661 39905 38760 71213 69062 23432 05907 46638 26538
64870 271.4 69548 11943 09183 97691 39385 62624 21666 00373
43132 92745 16565 64245 13207 90250 17080 12494 18740 .2750
67887 04831 91047 09268 19932 01094 23511 15518 84330 75800
13034 57643 44015 57873 96777 71762 57700 07605 96417 73649
70703 10957 56014 33794 97477 02435 66141 98550 16395 20492
91123 37459 88736 81095 63949 89223 51512 28498 62662 14223
64718 64564 4123. 04075 92498 84114 53148 82605 88754 29387
54494 06778 50783 38427 56625 87998 33719 94872 48484 64652
38330 38849 65703 42938 12813 41162 15612 13550 07613 63849
25635 63456 43197 34664 86476 44192 65448 22518 70787 82309
96517 08603 79753
000 000 *Courtesy JkC*

1900z	29/04[172 000] Fair	(2m14s)	PLdn	MON

13403kHz1720z	14/04[641 1 261 60 01417 ... 95845 000 000] 1728z QSA5 QRM5 QRN4 QSB3		tiNG	SUN

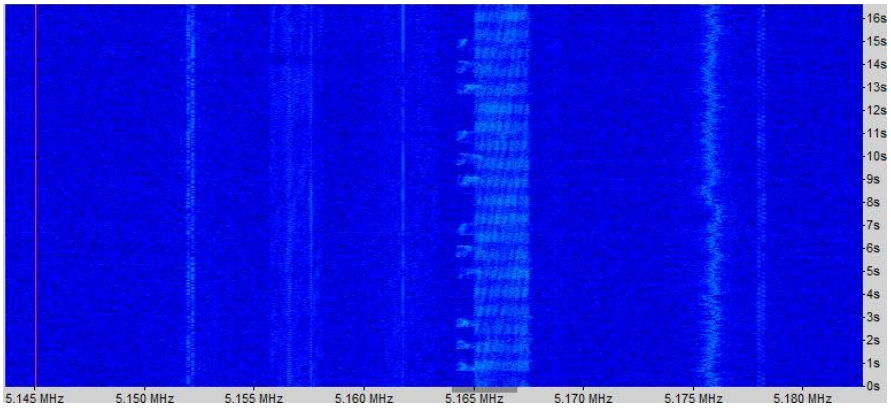
1720z	24/04[641 1 563 86 85539 ... 83655 000] 1731z Strong QRM2 QSB2			JkC	WED

641 1 563 86
85539 38214 29227 27046 70090 52282 97689 40635 70339 70393
71003 11244 10058 88199 40020 38489 31070 50706 42621 00093
02119 19631 56601 45289 93853 23120 47622 69530 10062 34359
55300 48118 50944 26297 77462 51800 62180 55530 11420 80851
75474 20160 10923 12341 30519 57831 63699 72323 45196 89320
17404 98818 37459 54010 75234 83019 78933 61685 76469 70061
49222 39728 10969 83477 97821 47610 11059 72067 92495 42957
20479 58084 69046 80847 21372 48716 67250 99185 55971 06723
64580 40867 66756 80045 66156 83655
000 000 *Courtesy JkC*

1720z	28/04[641 000] 1722z Fair QRM2 QSB2			JkC	SUN
14603kHz1700z	28/04[641 x 3 00000.....]1702z S7			M8	SUN

E07a
March2013:

4564kHz 2140z 27/03[815 1 14834 7337 54 85606 ... 64128 000 000] 2146z Fair QRN3 QSB3 Spectre WED



5164kHz2120z 06/03[815 000] Very strong, digitalQRM2

5146kHz0530z	07/03[188 000] 0532z S9+10			MP, Spectre	THU
0530z	14/03[188 000] Very strong		(2m14s)	Spectre, PLdn	THU
0530z	21/03[188 000] Very strong		(2m14s)	Spectre, PLdn	THU
0530z	28/03[188 1 14834 7337 54 85606 ... 64128 000 000] Very strong	*Rpt fm 28/02/2013*	(6m58s)	Spectre, PLdn	THU

E07a 5146/5846/6846kHz 0530/0550/0610z 28/03 Transcript:

188 1 14834 7337 54
85606 84250 02974 45679 21100 08901 59688 87926 48228 35841
73312 73385 70029 28944 69085 72616 98722 30111 08483 01358
57145 75980 33913 79146 39366 29891 81610 66281 70834 98064
23386 18147 71986 58491 52763 96964 11584 67904 08824 28299
04207 09646 78613 57347 62924 87066 82575 82160 60283 46219
64901 46060 15925 64128
000 000 *Courtesy Spectre*

5164kHz2120z	06/03[815 000] Very strong, digitalQRM2 See image		(2m14s)	Spectre, PLdn	WED
2120z	13/03[815 000] Very strong, digitalQRM2		(2m14s)	Spectre, PLdn	WED
2120z	20/03[815 000] Very strong		(2m14s)	Spectre, PLdn	WED
2120z	27/03[815 1 14834 7337 54 85606 ... 64128 000 000] Very strong	*Rpt fm 27/02/2013*	(6m58s)	Spectre, PLdn	WED
5846kHz0550z	07/03[188 000] 0552z S9+10			MP, Spectre	THU
0550z	14/03[188 000] Very strong		(2m14s)	Spectre, PLdn	THU
0550z	21/03[188 000] Very strong		(2m14s)	Spectre, PLdn	THU
0550z	28/03[188 1 14834 7337 54 85606 ... 64128 000 000] Very strong	*Rpt fm 28/02/2013*	(6m58s)	Spectre, PLdn	THU
5864kHz2100z	06/03[815 000] Very strong		(2m14s)	Spectre, PLdn	WED
2100z	13/03[815 000] Very strong		(2m14s)	Spectre, PLdn	WED
2100z	20/03[815 000] Very strong		(2m14s)	Spectre, PLdn	WED
2100z	27/03[815 1 14834 7337 54 85606 ... 64128 000 000] Very strong	*Rpt fm 27/02/2013*	(6m58s)	Spectre, PLdn, HJH	WED

E07a 5864/5164/4564kHz 2100/2120/2140z 27/03 Transcript:

815 1 14834 7337 54
85606 84250 02974 45679 21100 08901 59688 87926 48228 35841
73312 73385 70029 28944 69085 72616 98722 30111 08483 01358
57145 75980 33913 79146 39366 29891 81610 66281 70834 98064
23386 18147 71986 58491 52763 96964 11584 67904 08824 28299
04207 09646 78613 57347 62924 87066 82575 82160 60283 46219
64901 46060 15925 64128
000 000 *Courtesy Spectre*

6846kHz0610z	28/03[188 1 14834 7337 54 85606 ... 64128 000 000] Very strong	*Rpt fm 28/02/2013*	(6m58s)	Spectre, PLdn	THU

11133kHz0900z	02/03[114 1 46909 4849 37 08912 ... 58133 000 000] Weak, QSB3	(5m53s)	PLdn, GD	SAT
0900z	09/03[114 000] Weak, QSB2	(2m14s)	Spectre, M8	SAT
0900z	16/03[114 000] Fair	(2m14s)	PLdn, Spectre	SAT
0900z	23/03[114 114 114 000] 0902z Fair QRN3 QSB3		Spectre, GD, PLdn	SAT
0900z	30/03[114 1 19187 537 83 43229 ... 37332 000 000] Fair & noisy	(9m40s)	PLdn	SAT
12133kHz0920z	02/03[114 1 46909 4849 37 08912 ... 58133 000 000] Very weak, QSB3	(5m53s)	PLdn, GD	SAT
0920z	09/03[114 000] Weak, QSB2	(2m14s)	PLdn, Spectre	SAT
0920z	16/03[114 000] Weak	(2m14s)	PLdn, Spectre	SAT
0920z	23/03[114 000] Weak	(2m14s)	PLdn, Spectre	SAT
0920z	30/03[114 1 19187 537 83 43229 ... 37332 000 000] Very weak	(9m40s)	PLdn, CH10	SAT
13433kHz0940z	02/03[114 1 46909 4849 37 08912 ... 58133 000 000]	(5m53s)	GD	SAT
0940z	30/03[114 1 19187 537 83 43229 ... 37332 000 000] Stromg, local QRM2	(9m40s)	PLdn	SAT

April2013:

5773kHz 2040z	10/04[147 1 16551 8781 61 26435 ... 21706 000 000] 2047z Fair QRN3 QSB3		Spectre	WED
2040z	24/04[147 1 16551 8781 61 26435 ... 21706 000 000] 2047z Fair QRN3 QSB3		Spectre	WED
7437kHz0430z	04/04[411 000] Very strong	(2m14s)	PLdn	THU
0430z	18/04[411 000] Very strong	(2m14s)	PLdn	THU
0430z	25/04[411 1 16551 8781 61 26435 … 21706 000 000] Very strong	(7m51s)	PLdn	THU
7473kHz2020z	03/04[147 147 147 000] 2022z Strong QRN3 QSB3		Spectre	WED
2020z	10/04[147 1 16551 8781 61 26435 ... 21706 000 000] 2027z Fair QRN2 QSB2		Spectre	WED
2020z	17/04[147 147 147 000] 2022z Fair QRN2 QSB2		Spectre	WED
2020z	24/04[147 1 16551 8781 61 26435 ... 21706 000 000] 2027z Fair QRN3 QSB3		Spectre	WED
8137kHz0450z	04/04[411 000] Very strong	(2m14s)	PLdn	THU
0450z	18/04[411 000] Very strong	(2m14s)	PLdn	THU
0450z	25/04[411 1 16551 8781 61 26435 … 21706 000 000] Very strong	(7m51s)	PLdn	THU
8173kHz2000z	03/04[147 147 147 000] 2002z Strong QRN3 QSB3		Spectre	WED
2000z	10/04[147 1 16551 8781 61 26435 ... 21706 000 000] 2007z Strong QRN2 QSB2		Spectre	WED
2000z	17/04[147 147 147 000] 2002z Strong QRN2 QSB2		Spectre	WED
2000z	24/04[147 1 16551 8781 61 26435 ... 21706 000 000] 2007z Fair QRN3 QSB3		Spectre, JkC	WED

E07a 8173kHz 2000z 24/04
147 1 16551 8781 61
26435 83333 63036 23100 53458 59179 29038 51126 34205 97757
92512 41329 69609 37866 88810 19614 16265 23748 10997 81137
57196 96952 99695 39944 49669 40395 34989 17809 86607 43936
46245 26816 13425 85651 84674 61527 22657 75358 00069 96324
27270 55314 07882 57040 42029 50256 35733 83550 73586 60550
31405 18833 43585 90694 66485 39843 09161 89807 60654 16036
21706
000 000 *Courtesy JkC*

9137kHz0510z	25/04[411 1 16551 8781 61 26435 … 21706 000 000] Very strong, QRM2	(7m51s)	PLdn	THU
11074kHz1530z	05/04[102x3 000]		GD	FRI
1530z	26/04[102x3 1 34935 4572 65 .....]		GD	FRI
10274kHz1550z	26/07[102 1 34935 4527 65 38810 ... 44861 000 000]		JcK	FRI

E07a 10274kHz 1550z 26/04
102 1 34935 4527 65
38810 16496 76729 82121 22153 97668 55078 68347 16920 12174 78779 94265
40823 50585 81437 05843 24775 31118 91180 64118 14899 38639 23475 52576
63768 38777 37958 86191 53118 93224 69746 36922 88536 28786 95600 50692
55335 45294 78630 78368 64326 76025 26964 78522 22231 48391 48008 70719
17374 04982 85865 21478 15959 99257 47615 97636 50687 40725 35301 60970
89893 31579 77673 54226 44861
000 000 *Courtesy JcK*

12174kHz1510z	05/04[102x3 000]		GD	FRI
1510z	12/04[102x3 000]		GD	FRI
12218kHz0800z	06/04[244 000] Weak, QRM2	(2m14s)	PLdn, GD, Hans	SAT
0800z	13/04[244x3 000]		GD,DoK	SAT
0800z	20/04[244 000] Weak	(2m14s)	PLdn	SAT
0800z	27/04[244 1 34935 4527 65 38810 ... 44861 000 000] Weak , QRM3	(8m10s)	PLdn	SAT
13418kHz0820z	06/04[244 000] Very strong	(2m14s)	Hans, PLdn	SAT
0820z	13/04[244 000]		DoK	SAT
0820z	20/04[244 000] Fair, noisy	(2m14s)	PLdn	SAT
0820z	27/04[244 1 34935 4527 65 38810 ... 44861 000 000] Strong	(8m10s)	PLdn	SAT
14418kHz0840z	27/04[244 1 34935 4527 65 38810 ... 44861 000 000] Strong	(8m10s)	PLdn	SAT

E11[III]

E11 log March/April

4909kHz	0900z	09/03 [248/00] Weak	RNGB	SAT
	1445z	09/03 [287/00] Out 1448z	Thomas	SAT
	1445z	16/03 [287/00] Medium signal	Fox	SAT
	0900z	23/03 [248/00] Strong	Fox	SAT
	1445z	23/03 [287/00] Medium	Fox	SAT
	1445z	17/04 [287/00] R3m]Weak QRM2 QSB4	JkC	WED
	0900z	27/04 [248/00] Weak	RNGB	SAT
	1445z	27/04 [287/00] R3m Out 1448z Weak QRM2 QSB4	JkC	SAT
5371kHz	2000z	01/03 [576/00] 2003z Weak QRN3 QSB3	Spectre	FRI
	2000z	26/04 [576/00] 2003z Strong	Hans	FRI
6304kHz	0450z	04/03 [416/00] Very strong	Fox	MON
	0450z	08/04 [416/00] Out 0454z Fair	Chris, Hans	MON
6814kHz	0820z	04/03 [438/00] Very strong	Fox, RNGB, Malc	MON
	0820z	07/03 [438/00]	RNGB	THU
	0820z	18/03 [438/00] Strong	RNGB	MON
	0820z	21/03 [438/00]	RNGB	THU
	0820z	25/03 [438/00]	RNGB, Guy, Malc	MON
	0820z	28/03 [438/00] 0823z Strong	Hans	THU
	0820z	08/04 [438/00]	RNGB	MON
	0820z	22/04 [438/00] Out 0823z S4	Malc	MON
	0820z	29/04 [438/00] Good	RNGB	MON
7449kHz	1045z	06/03 [469/00] Fair	RNGB	WED
	1045z	12/03 [469/00]	RNGB	TUE
	1045z	13/03 [469/00] 1048z Weak QRN3 QSB3	Spectre	WED
	1045z	19/03 [469/00]	RNGB	TUE
	1045z	26/03 [469/00] Sending 40Hz low on frequency	RNGB	TUE
	1045z	17/04 [469/00] R3m Out 1048z	Thomas	WED
9371kHz	1730z	14/03 [416/00]	RNGB	THU
	1730z	21/03 [416/00] Weak	RNGB	THU
	1730z	28/03 [416/00] Weak + Heavy QRM	RNGB	THU
	1730z	04/04 [416/00] Very strong	FOX	THU
9399kHz	0900z	04/03 [534/00] Fair	RNGB, Malc	MON
	0900z	06/03 [534/00] Fair	RNGB	WED
	0900z	13/03 [534/00] Fair	RNGB	WED
	0900z	18/03 [534/00] Weak	RNGB	MON
	0900z	20/03 [534/00]	RNGB	WED
	0900z	25/03 [534/00]	RNGB, Guy	MON
	0900z	01/04 [534/00]	RNGB	MON
	0900z	03/04 [534/00] Fair	RNGB	WED
	0900z	29/04 [534/00] Fair	RNGB	MON
10221kHz	0710z	01/03 [633/00] Good	RNGB	FRI
	0710z	05/03 [633/00]	RNGB	TUE
	0710z	12/03 [633/00]	RNGB	TUE
	0710z	15/03 [633/00]	RNGB	FRI
	0710z	22/03 [633/00] Medium signal	Fox	FRI
	0710z	26/03 [633/00]	RNGB	TUE
	0710z	29/03 [633/00]	RNGB	FRI
	0710z	02/04 [633/00]	RNGB	TUE
	0710z	05/04 [633/00]	RNGB	FRI
	0710z	16/04 [633/00]	RNGB	TUE
	0710z	19/04 [633/00]	RNGB	FRI
10690khz	0830z	01/03 [649/00] Good	RNGB	FRI
	0830z	04/03 [649/00] Very strong	Fox, RNGB	MON
	0830z	11/03 [649/00]	RNGB	MON
	0830z	15/03 [649/00] Good	RNGB	FRI
	0830z	22/03 [649/00] Good	RNGB	FRI
	0830z	25/03 [649/00]	Guy, Malc	MON
	0830z	29/03 [649/00]	RNGB	FRI
	0830z	01/04 [649/00] Strong	Fox	MON
	0830z	05/04 [649/00]	RNGB	FRI
	0830z	08/04 [649/00]	RNGB	MON
	0830z	19/04 [649/00]	RNGB	FRI
	0830z	29/04 [649/00]	RNGB	MON
10800kHz	0645z	05/03 [517/00]	RNGB	TUE
	0645z	07/03 [517/00]	RNGB	THU
	0645z	14/03 [517/00]	RNGB	THU
	0645z	19/03 [517/00]	RNGB	TUE
	0645z	26/03 [517/00]	RNGB	TUE
	0645z	28/03 [517/00] 0648z Weak	Hans	THU
	0645z	02/04 [517/00]	RNGB	TUE

	0645z	04/04 [517/00]	RNGB	THU
	0645z	09/04 [517/00] Fair	RNGB	TUE
	0645z	18/04 [517/00] Fair	RNGB	THU
13873kHz	1045z	12/03 [576/00] Good	RNGB	TUE
	1045z	19/03 [576/00] Out 1050z (faulty delivery)	RNGB	TUE
	1045z	26/03 [576/00] Good	RNGB	TUE
	1045z	02/04 [576/00] Good	RNGB	TUE
	1045z	09/04 [576/00] Good	RNGB	TUE
14575kHz	0745z	05/03 [335/00] Good	RNGB	TUE
	0745z	12/03 [335/00]	RNGB	TUE
	0745z	14/03 [335/00]	RNGB	THU
	0745z	19/03 [335/00]	RNGB	TUE
	0745z	21/03 [335/00]	RNGB	THU
	0745z	02/04 [335/00]	RNGB	TUE
	0745z	04/04 [335/00] Good	RNGB	THU
	0745z	18/04 [335/00] Good	RNGB	THU
15915kHz	1540z	04/03 [228/00] Good	RNGB, Malc	MON
	0545z	06/03 [348/00] Good (Global tuners Greece)	RNGB	WED
	1540z	10/03 [228/00] Strong	RNGB	SUN
	0545z	13/03 [348/00] Good (Global tuners Greece)	RNGB	WED
	1155z	14/03 [718/00] 1158z Fair QRN3 QSB3	Spectre	THU
	1540z	18/03 [228/00] Good	RNGB	MON
	1155z	21/03 [718/00[Very weak	RNGB	THU
	1540z	25/03 [228/00] Out 1543z S1 weak	Malc	MON
	1540z	31/03 [228/00] Good	RNGB	SUN
	1540z	01/04 [228/00]	RNGB	MON
	0545z	17/04 [348/00] Fair	RNGB	WED
	1155z	17/04 [718/00] Strong	RNGB	WED
	1155z	18/04 [718/00]	Malc	THU
	1540z	22/04 [228/00] R3m Out1543z Weak QRM2 QSB4	JkC	MON
	1540z	28/04 [228/00] Out 1543z S7	Malc	SUN

E11a log March/April

4909kHz	0900z	02/03 [249/35 47367 45763 32265 16858 70951…..20794]	Fox	SAT
	1445z	02/03 [286/33 18969 99111 38324 34497 44605…..90834]	Thomas	SAT
	1445z	06/03 [282/38 26659 37708 62510 89784 30897.....30725] Out 1455z Weak	Spectre	WED
	0900z	16/03 [241/38 79849 77861 61866 07111 85967…..] Weak	RNGB	SAT
	0900z	04/04 [244/36 65953 06814 28228 73240 15276…..52419] Weak	RNGB	THU
	0900z	06/04 [244/36] repeat of Thursday	Fox	SAT
	1445z	06/04 [282/33 5?008 17118 25976 80145 30047…..86186] Fair	Fox	SAT
5194kHz	1710z	01/03 [957/20 37573 17621 51621 09813 39908…..90487] Good	RNGB	FRI
	1710z	04/03 [952/32 12910 47882 32323 60411 57223…..81041] Good	RNGB, Malc	MON
	1710z	08/03 [953/21 88993 50085 42880 94409 77644…..51414]	Fox, Tony	FRI
	1710z	11/03 [957/21 17319 81280 18408 75948 43554…..18325] Good	RNGB	MON
	1710z	15/03 [953/21 50194 55199 26382 97763 96557…..61178] Good	RNGB	FRI
	1710z	22/03 [955/21 92086 22869 77594 09578 23975…..82577] Strong	RNGB	FRI
	1710z	29/03 [953/21 A 14261 45771 ... 88075] 1717z Strong	Hans	FRI
	1710z	01/04 [954/31 98113 36794 08192 73097 71767…..07080]	RNGB	MON
	1710z	05/04 [958/38 69318 91213 32948 46905 15116…..46070]	RNGB	FRI
	1710z	08/04 [956/30 74276 12274 11275 55926 87302…..48998]	RNGB	MON
	1710z	19/04 [958/33 39850 38016 79889 59461 18639…..33452]	Fox, Chris	FRI
	1710z	22/04 [953/21 80883 19939 02526 19129 58019…..16593] Fair, Out 1725z	Chris	MON
	1710z	26/04 [953/20 23658 02358 69854 02365 89652…..02145] Fair, Out 1718z	Chris	FRI
5371kHz	2000z	19/04 [579/35 49237 87356 85509 95942 56543…..95994] Good	RNGB, HFD	FRI
6814kHz	0820z	11/03 [432/33 49911 82811 35543 73058 43614…..13030] Fair	RNGB	MON
	0820z	14/03 [435/32 38133 71473 47714 64670 05187…..00356]	Spectre	THU
	0820z	01/04 [438/37 37246 69348 81454 48497 15342…..55335]	Fox	MON
	0820z	04/04 [438/37 37246 69348 81454 48497 15342…..55335] Fair	RNGB	THU
7449kHz	1045z	02/04 [469/37 09571 31930 01916 10874 40799…..78975] Weak	RNGB, Marco	TUE
9399kHz	0900z	11/03 [537/35 64469 07659 26568 40931 62598…..59713] Fair	RNGB	MON
	0900z	27/03 [535/35 42351 65086 19743 30219 95198…..06305] Fair	RNGB	WED
	0900z	15/04 [537/34 …..]	Guy	MON
9371kHz	1730z	07/03 [414/38 88542 75654 51752 12963 85237…..83127]	RNGB	THU
	1730z	18/04 [418/31 27969 11225 74240 80710 96995…..75878] Good	RNGB	THU
10221kHz	0710z	08/03 [631/36 83269 16192 27054 35605 89009…..99903]	RNGB, Tony	FRI
	0710z	19/03 [633/35 21502 89937 09887 36158 78631…..15071]	RNGB	TUE
	0710z	12/04 [630/34 28741 01512 05716 93239 77663…..72220]	Fox, Guy	FRI
10690kHz	0830z	08/03 [640/37 97422 54199 82700 39734 35529…..48006]	RNGB	FRI
	0830z	18/03 [648/30 50722 78113 84473 75692 60573…..58360]	RNGB, Fritz	MON
	0830z	22/04 [646/38 29518.....18111" Single repeat] Out 0840z S3	Malc	MON
	0830z	26/04 [648/36 29518 00865 43191 99553 87022…..18111] Fair	RNGB	FRI

10800kHz	0645z	12/03 [512/36 51452 75278 00614 30768 03598…..32802] Fair	RNGB	TUE
	0645z	21/03 [512/37 95674 29231 18593 22423 58216…..93779] Good, Out 0655z	RNGB	THU
13375kHz	1400z	02/03 [987/10 26658 55203 62627 79125 48392…..95205]	Fox, Thomas	SAT
	1110z	04/03 [951/20 66220 42040 78998 84378 39768…..56510] Good	RNGB, Malc	MON
	1400z	05/03 [981/10 53033 90952 30613 00349 69974…..51044] Good	RNGB, Gary	TUE
	1110z	08/03 [952/31 97289 29752 40163 35970 76921…..25923] Fair with QSB	RNGB	FRI
	1400z	09/03 [984/10 69643 83550 62725 61659 13327…..52402]	RNGB	SAT
	1400z	12/03 [988/10 28823 76113 04338 27650 20947…..48153] Good	RNGB	TUE
	1110z	15/03 [952/31 03219 10511 39670 37268 44431…..06091] Good	RNGB	FRI
	1400z	16/03 [980/10 72419 51486 14327 95866 74188…..52172] Good	RNGB, Fox	SAT
	1110z	18/03 [952/31 99803 68343 50199 13094 08954…..97402] Good	RNGB	MON
	1400z	19/03 [981/10 82201 60401 96358 26896 66777…..56443]	RNGB	TUE
	1110z	22/03 [954/31 28782 57820 99300 90816 85174…..72768] Good	RNGB	FRI
	1400z	23/03 [981/10 78838 64544 74358 13288 01004…..87956]	Fox	SAT
	1110z	25/03 [954/31 37934 67608 70516 74365 96611…..51628] Fair	RNGB, Guy	MON
	1400z	26/03 [987/10 00819 69628 34850 26570 84726…..02797] Good	RNGB	TUE
	1110z	29/03 [958/31 35781…..] Poor, blocked by heavy QRM	RNGB	FRI
	1400z	30/03 [982/10 95187 10776 95320 42312 31584…..52840] Good	RNGB	SAT
	1110z	01/04 [958/40 40414 65362 32511 07698 04930…..33163]	RNGB	MON
	1110z	05/04 [950/40 17873 16004 86809 76799 27376…..52962]	RNGB	FRI
	1400z	06/04 [982/10 31889 70628 65013 64658 18717…..87035]	Fox	SAT
	1110z	08/04 [958/40 00088 33096 79940 44319 48053…..38295] Good	RNGB	MON
	1400z	09/04 [985/10 11085 52723 57873 77109 37991…..26999] Good	RNGB	TUE
	1400z	16/04 [981/10 94240 36193 79518 85925 80905…..30734] Good	RNGB	TUE
	1110z	19/04 [951/24 77743 38503 93600 41617 06783…..12899]	Malc	FRI
	1400z	20/04 [988/10 28559 04500 43758 61493 72603…..24686] Good	Gary	SAT
	1400z	27/04 [988/10 31445 18203 36607 06971 16755…..96374] Out 1405z Fair	JkC, Fritz	SAT
	1110z	29/04 [954/31 22780 12517 46366 15188 03328…..65596] Fair	RNGB	MON
13455kHz	1810z	02/03 [986/10 67877 37797 00699 26828 27558…..68133] Good	RNGB, Malc	SAT
	1810z	09/03 [985/10 37438 52935 83622 32430 26698.....09795] Out 1816z Weak	Spectre	SAT
	1810z	16/03 [984/10 41953 18946 97207 82778 27416…..94610]	Spectre	SAT
	1810z	19/03 [982/10 55712 33505 25881 40754 89074…..76113]	RNGB	TUE
	1810z	26/03 [988/10 23236 88634 57169 64805 58871…..03939]	Thomas	TUE
	1810z	30/03 [983/10 77609 19851 02487 69549 42067…..70905] Fair	RNGB	SAT
	1810z	02/04 [987/10 08538 15962 59379 21059 88750…..40882]	RNGB, Thomas	TUE
	1810z	09/04 [987/10 81211 24142 70077 90792 55229…..81502] S7	Malc	TUE
	1810z	13/04 [987/10 45116 41656 35087 14091 03941…..96212]	Malc	SAT
	1810z	16/04 [982/10 55481 ... 14926] 1816z Fair QRM2/5 QSB2	JkC	TUE
	1810z	27/04 [985/10 96233 14989 32086 30128 35326…..52217]	RNGB	SAT
13873kHz	1045z	05/03 [579/32 83651 60223 33398 38383 23761…..02086]]1053z S9+20	Marco	TUE
	1045z	16/04 [579/35 49237 87356 85509 95942 56543…..95994] Good	RNGB	TUE
14575khz	0745z	07/03 [333/36 62747 94089 97411 99142 00913…..]	RNGB	THU
	0745z	26/03 [333/34 44164 30638 17051 44181 38593…..82018] Good	RNGB	TUE
	0745z	09/04 [334/36 64905 46120 28330 88786 60093…..54516] Strong	RNGB	TUE
15915khz	1540z	03/03 [220/31 53192 01751 02993 60958 56940…..23111]	Malc	SUN
	1155z	07/03 [711/38 70316 83487 45248 74519 87496.....09233] Out 1205z Fair	Spectre	THU
	1155z	13/03 [710/30 A 18056 74125 .... 10090] 1204z Weak/Fair	Hans	WED
	1540z	24/03 [227/32 33895 82070 70888 16288 44162…..00901] Weak	RNGB	SUN
	1155z	10/04 [717/35 78960 26458 58650 86626 07236…..08410] Good	RNGB	WED

E11a 4909kHz 0900z 06/04 Transcript:
244/36 Attention
65953 06814 28228 74240 15276 09650 09194 46393 49356 19845
34462 00694 05974 49587 72428 44064 39134 16853 27836 88910
03134 37872 58806 88278 11558 86600 94022 72355 85313 85903
53879 21590 10411 14326 56599 52419
Out *Coutesy Spectre*

E11a 9371kHz 1730z 18/04 Transcript:
418/31 Attention
27969 11225 74240 80710 96995 71510 33707 08575 10023 37422
69874 34315 21588 10007 47923 30554 69945 29402 32880 73576
48419 15806 35974 91561 85061 73800 73687 59329 37454 16103
75878
Out *Coutesy Spectre*

E11a 9399kHz 0900z 15/04 Transcript:
53*/34 Attention
03996 56990 07923 81122 00549 10924 23465 09160 06259 95962
55324 86734 01310 64231 51896 07754 13070 56644 63830 40907
72979 42755 11268 50865 95603 30588 39505 42463 80465 75513
81978 99053 85693 02611
Out
(Note: This transmission had lots of malfunctions.
The figures five and three were only heard during the call.)
Coutesy Spectre

E11a 13375kHz 1110z 08/04 Transcript:
958/40 Attention
00088 33096 79940 44319 48053 65547 63403 55510 82326 66514
08913 26334 34920 30064 06725 14103 05094 63035 98717 25778
96784 64577 20722 32131 45679 74524 16142 92910 84253 07289
21253 34334 15391 29655 21521 61239 12748 58030 69605 38295
Out
Coutesy Spectre

E11a 13375Hz 1400z 09/04 Transcript:
985/10 Attention
11085 52723 57873 77109 37991 19457 01463 76210 55366 26999
Out *Coutesy Spectre*

E11a 13375kHz 1110z 15/04 Transcript:
952/32 Attention
06817 92023 44995 60776 18688 56398 41323 88842 49339 84545
08869 79455 96437 65838 57791 27393 45537 22615 18562 70446
23952 67031 08415 35860 06391 54157 66779 62735 91576 58610
25204 49629
Out *Coutesy Spectre*

E11a 13375kHz 1400z 16/04 Transcript:
981/10 Attention
94240 36193 79518 85925 80905 36506 19866 49693 87131 30734
Out *Coutesy Spectre*

E11a 13375kHz 1110z 22/04 Transcript:
958/31 Attention
33898 72342 95804 71444 06993 30102 28848 02245 17300 68820
29530 72882 27412 97018 91453 21417 21139 86309 69723 01580
29363 47453 15657 45430 15212 77435 34347 04377 69266 72902
69002
Out *Coutesy Spectre*

E11a 13455kHz 1810z 13/04 Transcript:
987/10 Attention
45116 41656 35087 14091 03941 13817 98814 58638 82778 96212
Out *Coutesy Spectre*

E11a 13455kHz 1810z 16/04 Transcript:
982/10 Attention
55481 00978 19537 83754 98096 36536 77364 51130 03924 14926
Out *Coutesy Spectre*

E11c log March/April

4441kHz	0700z	05/03 [758/1000/00] Good	RNGB	TUE
	0700z	12/03 [758/0000/00] Good	RNGB	TUE
	0700z	26/03 [758/0000/00] Good	RNGB	TUE
	0700z	02/04 [758/0000/00] Weak	RNGB	TUE
	0700z	09/04 [758/0000/00] Weak	RNGB	TUE
	0700z	16/04 [758/0000/00] Fair	RNGB	TUE
7863kHz	1925z	05/03 [758/0000/00] Good	RNGB, Gary	TUE
	2000z	05/03 [757/2200/00] Good	RNGB, Thomas	TUE
	1925z	07/03 [758/0000/00] Out1928z S2	Malc, Gary	THU
	1925z	12/03 [758/0001/00] Good	RNGB	TUE
	2000z	12/03 [757/2200/00] Out 2003z	Malc	TUE
	1925z	14/03 [758/0000/00] Good	RNGB	THU
	1925z	19/03 [758/0000/00]	RNGB	TUE
	2000z	19/03 [757/0000/00]	Thomas	TUE
	1925z	26/03 [758/0000/00] Good	RNGB, Thomas	TUE
	2000z	26/03 [757/0200/00] Good	RNGB, Thomas	TUE
	1925z	28/03 [758/0000/00]	RNGB	THU
	1925z	02/04 [758/0000/00] Good	RNGB	TUE
	2000z	02/04 [757/2200/00] Good	RNGB, Chris	TUE
	1925z	04/04 [758/0000/00] Very strong	Fox	THU
	1925z	09/04 [758/0000/00] Good	RNGB	TUE
	2000z	09/04 [757/0000/00] Good	RNGB	TUE
	1925z	16/04 [758/0000/00] R3m Out 1928z Strong QRM2 QSB2	JkC	TUE
	1925z	18/04 [758/0000/00] R3m Out 1928z	Thomas	THU
14666kHz	0700z	06/03 [747/0000/00] Good	RNGB	WED
	0700z	13/03 [747/0000/00] Strong	RNGB	WED
	0700z	27/03 [747/0000/00] Weak	RNGB	WED
	0700z	03/04 [747/0000/00] Weak	RNGB	WED
	0700z	10/04 [747/0000/00] Good	RNGB	WED
	0700z	17/04 [747/0000/00] Good	RNGB	WED

E17z

The first sending of E17z for March 2013 has a familiar message, seen before in another guise:

Tues	18 Dec12	S06s	5660kHz	893 260 5 39534 17228 15636 47891 23247
Friday	13 Jul 12	S06s	10290kHz	516 403 7 39534 17228 15636 47891 23247 17099 94961
Thurs	15 Nov12	S06s	5410kHz	624 985 7 39534 17228 15636 47891 23247 17099 94961
Thurs	15 Nov12	S06s	6770kHz	624 985 7 39534 17228 15636 47891 23247 17099 94961

Advised by RNGB

March2013:

12930kHz	0810z	07/03[674 981 5 39534 17238 15626 47891 23247 981 5 00000(s)] 0815z Fair QRN3 QSB3	Spectre	THU
	0810z	14/03[674 981 5 39534 17238 15626 47891 23247 981 5 00000(s)] 0815z Fair QRN3 QSB3	Spectre	THU
	0810z	21/03[674 5 235 5 54690 ... 64385 00000 0815z Weak QRN 4 QSB2	Wix	THU
14260kHz	0800z	07/03[674 981 5 39534 17238 15626 47891 23247 981 5 00000(s)] 0805z Fair QRN3 QSB3	Spectre, GD	THU
	0800z	14/03[674 981 5 39534 17238 15626 47891 23247 981 5 00000(s)] 0805z Fair QRN3 QSB3	Spectre, GD	THU
	0800z	21/03[674 231 5 14690 11749 70552 65906 64385]	GD	THU

April2013:

12930kHz	0810z	04/04[674 201 5 13577 74526 46647 79302 84116 201 5 0 0 0 0 0] 0806zQSA3/4	JO, GD	THU
	0810z	18/04[674 293 5.....] 0815z Jet Noise	M8	THU
14260kHz	0800z	04/04[674 201 5 13577 74526 46647 79302 84116 201 5 0 0 0 0 0] 0816zQSA3/4	JO	THU

RNGB writes: Another familiar message! See below
Beginnings and endings slightly different.
S06s Tues 18 Dec 2012 6845kHz 537 294 6 13577 74526 46647 79302 88620 58069
S06s Weds 7 Nov 2012 9435kHz 153 274 6 74526 46647 79302 25616 56069 96813
S06s Tues 19 Ma r2013 11560kHz 427 860 5 46647 79302 53516 25616 96813

14260kHz0800z	11/04[674 201 5]Repeat of last week	GD	THU
0800z	18/04[674 293 5 78563 45335 79856.....00000]0805z S2	M8, GD	THU

E25
March2013:

6140kHz 1051z 27/02 ///XMTR/CARRIER ON, MAIN XMSN STATS about 1' later... - - 1057z	AIK	WED
6140kHz 1052z 27/02 YL [(TRUNCATED 8) 128 128 128 128 128 128 128 128 128 128 128 128 128 128 MESSAGE MESSAGE MESSAGE 1656 1021 0140 0648 8774 5493 7852 9614 9699 8782 9482 0140 REBEAT REBEAT REBEAT 1656 1021 0140 0648 8774 5493 7852 9614 9699 8782 9482 0140 END OF MESSAGE] ///NO INTRO. AUDIO GETS POOR AT A FEW POINTS - REPEAT OF MSG ON 26/02 FAIR END OF MESSAGE 1056z	AIK	WED
6140kHz 0730z 28/02 /// XSMT IN AM, LSB SUPPRESED. MUAZZIN - MUSLIM PRAYING WITH NICE "STADIUM" SOUND EFFECT. POOR AUDIO QUALITY. NO MSG PER-SAY. FAIR - 0734z	AIK	THU
6140kHz 0754z 03/02 YL [116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 MESSAGE MESSAGE MESSAGE 1011 1033 5990 9446 9321 7822 2761 4375 2824 4496 7431 REBEAT REBEAT REBEAT 1011 1033 5990 9446 9321 7822 2761 4375 2824 4496 7431 END OF MESSAGE END OF TRANSMISSION] ///NO INTRO. FAIR END OF MESSAGE END OF XMSN 0803z	AIK	SUN
6140kHz 1042z 10/03 ///XMTR/CARRIER ON/OFF - - 1042z	AIK	SUN
6140kHz 1042z 10/03 ///XMTR/CARRIER ON - - 1043z	AIK	SUN
6140kHz 1043z 10/03 YL [3 5 3] ///NO INTRO. STRONG 3 1043z	AIK	SUN
6140kHz 1054z 10/03 ///XMTR/CARRIER ON, WITH A BRIEF ON/OFF TWICE. MAIN XMSN STARTS ABOUT 16 MIN LATER... - - 1137z	AIK	SUN
E25 6140kHz 1110z 10/03 YL [15 315 315 315 315 315 315 315 315 315 315 315 315 315 315 MESSAGE MESSAGE MESSAGE 1088 4590 1090 9142 2065 6520 6481 4590 2743 REBEAT REBEAT REBEAT 1088 4590 1090 9142 2065 6520 6481 4590 2743 OF MESSAGE END OF TRANSMISSION] ///NO INTRO. STRONG - OF MESSAGE END OF XMSN 1113z	AIK	SUN
6140kHz 0733z 12/03 ///XMTR/CARRIER ON, MAIN XMSN STARTS ABOUT 4 MIN LATER... - - 0743z	AIK	TUE
E25 6140kHz 0737z 12/03 YL [0 360 360 360 360 360 360 360 360 360 360 360 360 360 360 MESSAGE MESSAGE MESSAGE 1001 8240 8671 9910 0357 3240 6742 1049 8240 1020 REBEAT REBEAT REBEAT 1001 8240 8671 9910 0357 3240 6742 1049 8240 1020 END OF MESSAGE 360 360 360 360 360 360 360 360 360 360 360 360 360 360 360 MESSAGE MESSAGE MESSAGE 1001 8240 8671 991... 1... 15... 4...(NUMBERS START TO GET CUT-OFF MID-SPEACH) 6 3 3] ///NO INTRO. 3 0743z	AIK	TUE
6140kHz 0756z 12/03 ///XMTR/CARRIER ON AND OFF SEVERAL TIMES... - - 0803z	AIK	TUE
6140kHz 1054z 12/03 ///XMTR/CARRIER ON, MAIN XMSN STARTS MOMENTAIRILY - - 1103z	AIK	TUE
/ 9450kHz 1212z 14/03 ///XMTR/CARRIER ON, MAIN XMSN STARTS ABOUT 1 MIN LATER... - - 1219z	AIK	THU
E25a 9450kHz 1213z 14/03 YL [830 9 830 9 830 9 830 9 830 9 830 9 830 9 830 9 830 9 830 9 830 9 830 9 830 9 830 9 END OF MESSAGE END OF TRANSMISSION] /// "ENTA OMRI"-UMM KHULTOM INTRO. STRONG END OF MESSAGE END OF XMSN 1219z	AIK	THU

6140kHz 0913z 16/03 ///XMTR/CARRIER ON, MAIN XMSN STARTS ABOUT 1 MIN
LATER... - - 0918z AIK SAT
E25 6140kHz 0914z 16/03 YL
[9 0 950 950 950 950 950 950 950 950 950 950 950 950 950 950
MESSAGE MESSAGE MESSAGE
3090 1059 8020 0729 1845 5078 2179 3406 8020
REBEAT REBEAT REBEAT
3090 1059 8020 0729 1845 5078 2179 340(WINDOWS "DONK")
END OF TRANSMISSION 95(DISTORTED)
REBEAT REBEAT REBEAT
30(WINDOWS "DONK") REBEAT]
///NO INTRO. STRONG REBEAT 0918z AIK SAT

6140kHz 0902z 17/03 ///XMTR/CARRIER ON. - - 0906z AIK SUN
6140kHz 0902z 17/03 YL
[111 111 111 111 111 111 111 111 111 1(XMTR OFF THEN ON AGAIN @ 0903z) 11 111
111
MESSAGE MESSAGE MESSAGE
1053 4170 4031 5158 4991 2458 4529 6905 6255(XMTR OFF/ON) 028 4211 7770 4170
REBEAT REBEAT REBEAT
1053 4170 4031 5158 4991 2458 4529 6905 6255 6028 4211 7770 4170
END OF MESSAGE END OF TRANSMISSION]
///NO INTRO. THIS ID LOGGED ONLY ONCE BEFORE – 19/01/13. STRONG END OF MESSAGE
END OF XMSN 0906z AIK SUN

6140kHz 0733z 23/03 ///CARRIER WITH MUSIC IN USB ONLY. MORE OF THAT "EPIC
MOVIE" SOUNDTRACK STUFF. SOUNDS LIKE A TAPE SLOWS DOWN THEN SPEEDS UP AT ONE
POINT, HARD TO TELL BAD AUDIO QUALITY. MUSICS STOPS AT ONE POINT FOLLWED BY 1
THEN 3 BEEP/TONES. MUSIC RESUMES. NO USUAL MSG, THOUGH E25 XMTR. WEAK +BAD AUDIO
– 0737z AIK SAT

6140kHz 0808z 24/03 ///XMTR/CARRIER ON, MAIN XMSN STARTS ABOUT 7 MIN
LATER... - - 0832z AIK SUN
6140kHz 0815z 24/03 YL
[014 014 014 014 014 014 014 014 014 014 014 014 014 014 014 014 014 014
014 014 014 014 014 014 014 014 014 014 014 014 014 014 014 014 014 014
014 014 014 014 014 014 014 014 014 014 014 014 014 014 014 014 014 014
014 014 014 014 014 014 014 014 014 014 014 014 014 014 014 014 014 014
014 014 014 014 014 014 014 014 014 014 014 014 014 014 014 014 014 014
014 014 014 014 014
MESSAGE MESSAGE MESSAGE
REBEAT REBEAT REBEAT
END OF MESSAGE]
///NO INTRO. "014" REPEATED ONE-HUNDRED AND FIVE TIMES. THIS ID IS A FIRST
LOGGING.
STRONG END OF MESSAGE 0824z AIK SUN

6140kHz 0741z 30/03 ///CARRIER WITH MUSIC IN USB ONLY. THE "EPIC MOVIE"
SOUNDTRACK STUFF. NO USUAL MSG, THOUGH E25 XMTR. WEAK +BAD AUDIO - 0743z AIK SAT

E25a

6140kHz 1054z 12/03
YL [6 1 126 1 126 1 126 1 126 1 126 1 126 1 126 1 126 1 126 1 126 1 126 1 126 1
126 1 126 1
MESSAGE MESSAGE MESSAGE
REBEAT REBEAT REBEAT
END OF MESSAGE]
///NO INTRO. WEAK AUDIO END OF MESSAGE 1057z AIK TUE

6140kHz 1214z 19/03 YL
[80 11 830 11 830 11 830 11 830 11 830 11 830 11 830 11 830 11 830 11
83(TUNCATION) 11 830 11 830 11 830 11 830 11
MESSAGE MESSAGE MESSAGE]
///"ENTA OMRI"- UMM KHULTOM INTRO – SEVERAL INTERUPTIONS. STRONG MESSAGE MESSAGE
MESSAGE 1220z AIK TUE

6140kHz 0949z 17/03 ///XMTR/CARRIER ON, MAIN XMSN STARTS ABOUT 1 MIN
LATER... - - 0956z AIK SUN
6140kHz 0949z 17/03 YL
[33 350 350 (XMSN/RECORDING PROBLEMS) 350 350 350 350
MESSAGE MESSAGE MESSAGE
1052 1052 3320 3011 5458 5399 8709 7078 6196 5136 8199 3320
REBEAT REBEAT REBEAT
1052 3320 3011 5458 5399 8709 7078 6196 5136 8199 3320
END OF MESSAGE END OF TRANSMISSION]
///"ENTA OMRI"- UMM KHULTOM INTRO. FAIR END OF MESSAGE END OF XMSN 0956z AIK SUN

9450kHz 1211z 17/03 ///XMTR/CARRIER ON, OFF, ON MAIN XMSN STARTS ABOUT 4MIN
LATER... - - 1223z AIK SUN
9450kHz 1215z 17/03 YL
[35 830 10 835 830 10 835 830 10 835 830 10 835 830 10 835 830 10 835 830 10 835

830 10 835 830 10 835 830 10 83 83 83 83 83
MESSAGE MESSAGE MESSAGE
5555 5555 5555 5555 5555 5555 5555 5555 5555 5555
REBEAT REBEAT REBEAT
5555 5555 5555 5555 5555 5555 5555 5555 5555 5555
END OF MESSAGE
///"ENTA OMRI"- UMM KHULTOM INTRO. FAIR END OF MESSAGE 1222z AIK SUN

9450kHz1317z 31/03[785 2 785 2 (R)] Weak with poor frequency control 9450.6 ±1kHz ends 1318z PLdn SUN

E25a 9450kHz ?z 31/03 ///XMTR/CARRIER ALREADY ON... - - 1206z AIK SUN
E25a 9450kHz 1200z 31/03
YL [75 277 275 277 275 277 275 277 275 277 275 277 275 277 275 277 275
277 277 277 277 277 277
MESSAGE MESSAGE MESSAGE
1330 1080 4410 5847 0739 4006 2214 4410
REBEAT REBEAT REBEAT
1330 1080 4410 5847 0739 4006 2214 4410
END OF MESSAGE END
275 277 275 277 275 277 275 277 27]
///INTRO, IF ANY NOT KNOWN. XMSN UNUSALLY WIDE @ 20kHz. VERY STRONG 27 1204z AIK SUN

E25a 9450kHz 1313z 31/03 ///XMTR/CARRIER ON, MAIN XMSN STARTS ABOUT 1MIN LATER... - - 1319z AIK SUN
E25a 9450kHz 1316z 31/03
YL [85 2 785 2 785 2 785* 2 785 2* 7!85 2 785 2 785* 2* 785 2* 785 2* 785 2 785
2 785 2 785 2 785 2 7*85 2* 785 2 785 *2 785 *2 785 2
MESSAGE MESSAGE MESSAGE
REBEAT REBEAT REBEAT
END OF MESSAGE] ///NO INTRO. XMSN UNUSALLY WIDE @ 20kHz.LOTS OF "SPIDER
SOLITAIRE" NOISES. "*"=(SPIDER SOL. "DEAL" SOUND), "!"(SPIDER SOL. "BLING"
SOUND). * W/ ! @ 1318z AFTER THE "EOM".
VERY STRONG END OF MESSAGE 1319z AIK SUN

E25 April2013:

E25 6140kHz - 01/04 ///NHRD/OBSERVED - - -z AIK MON

E25 6140kHz 0638z 02/04 ///XMTR/CARRIER ON THEN OFF THEN ON. MAIN XMSN STARTS
ABOUT 21 MIN LATER. WINDOWS OS SOUNDS KICK IN AT 0641z AND CONTINUE FOR ABOUT
THE NEXT 18 MIN. THE XMTR FLICKERS OFF AND OFF SEVERAL TIMES UNTIL THE SPIDER
SOLITAIRE GAME STARTS UP AROUND 0658z.- - 0705z AIK TUE

E25 6140kHz 0659z 02/04
YL [04 804 804 804 804 804 804 804 804 804 804 804 804 804 804
MESSAGE MESSAGE MESSAGE
1088 3260! 30!46 0331* 1645 8274 1613 4098 0718 9537 4575 1021
REBEAT REBEAT REBEAT
1088 3260 3046 0331 16*45 8274 1613 4098 0718 9537* 4575* 1021
END OF MESSAGE END] ///NO INTRO. AT 0704z THERE WAS ***! AND A !. "*"= SPIDER
SOL. "DEAL" SOUND, "!"= SPIDER SOL. "BLING" SOUND, "~"= UNSPECIFIED/UNRECOGNISED
GAME NOISE.
STRONG END OF MESSAGE 0703z AIK TUE

E25 6140kHz 0805z 03/04 ///THE EPIC SPIDER SOLITARE GAME BEGINS AND RUNS UNTIL
0826z FOLLOWED BY ANOTHER GAME AT 0846z ENDING AT 0911z. FINALLY BY 0935z A MSG
BEGINS... - - - AIK WED

E25 6140kHz 0935z 03/04
YL [3 3 333 333 333 333 333 333 333 333 333 333
MESSAGE MESSAGE MESSAGE
3090 1420 1125 3861 6776 2993 2536 1303 1420
REBEAT REBEAT REBEAT
3090 1420 1125 3861 6776 2993 2536 1303 1420
END OF MESSAGE] ///NO INTRO. AUDIO GOOD, BUT GETS DISTORTED OCCASIONALLY.
STRONG END OF MESSAGE 0938z AIK WED

E25 6140kHz 0722z 04/04
///CARRIER WITH MUSIC IN USB ONLY. MORE OF THAT "EPIC MOVIE" SOUNDTRACK STUFF. A
BIT MORE MUSIC HEARD AND I BELIEVE I HEARD A WOMAN SINGING. NO USUAL MSG,
WEAK +BAD AUDIO - 0725z AIK THU

E25 6140kHz 0829z 06/04 ///XMTR/CARRIER BRIEFLY ON-OFF, ON-OFF ON-OFF. NO MSGS. - - 0833z AIK SAT
E25 6140kHz 0835z 06/04 ///XMTR/CARRIER BRIEFLY ON THEN OFF. NO MSGS. - - 0837z AIK SAT

E25 6140kHz 0944z 07/04 ///XMTR/CARRIER ON FOR 30 SEC, THEN OFF. - - 0945z AIK SUN

E25 6140kHz 0956z 07/04 ///XMTR/CARRIER ON AND OFF DURING THIS 1MIN 40SEC XMSN
BLOCK, THEN OFF. - - 0958z AIK SUN
E25 6140kHz 0958z 07/04 ///XMTR/CARRIER ON, MAIN XMSN STARTS ABOUT 2 MIN
LATER... - - 1001z AIK SUN
E25 6140kHz 1000z 07/04

YL [570 570 570 570 570 570 570]
///NO INTRO. AUDIO GOOD. WEAK 570 1000z AIK SUN
E25 6140kHz 1001z 07/04 ///XMTR/CARRIER ON, MAIN XMSN STARTS ABOUT 25SEC
LATER... - - 1002z AIK SUN
E25 6140kHz 1001z 07/04 YL [70 570 570 570 570]///NO INTRO. AUDIO PROBLEMS. WEAK
570 1002z AIK SUN
E25 6140kHz 1002z 07/04 ///XMTR/CARRIER ON, MAIN XMSN STARTS ABOUT 40SEC
LATER... - - 1005z AIK SUN
E25 6140kHz 1002z 07/04 YL [570 570 570 570 570 570 570 570 570 570 570 570 570
MESSAGE MESSAGE MESSAGE
2033 2023 9755 9412 9614 2887 4995 9902
REBEAT REBEAT REBEAT
2033 2023 9755 9412 9(TRUNCATED, XMTR OFF)
///NO INTRO. WEAK 9 1005z AIK SUN
E25 6140kHz 1009z 07/04 ///XMTR/CARRIER ON 40SEC THEN OFF - - 1010z AIK SUN
E25 6140kHz 1010z 07/04 ///XMTR/CARRIER ON, MAIN XMSN 20SEC LATER... - - 1011z AIK SUN

E25 6140kHz 1010z 07/04
YL [570 570 570 570 570 570 5(AUDIO PROBLEMS) 570 5]
/// INTRO. WEAK 5 1011z AIK SUN
E25 6140kHz 1014z 07/04 ///XMTR/CARRIER ON, MAIN XMSN STARTS ABOUT 20SEC
LATER... - - 1015z AIK SUN
E25 6140kHz 1014z 07/04 YL [570 570
MESSAGE MESSAGE MESSAGE
2033 2023 975(TRUNCATED MSG)]
///NO INTRO. WEAK 975 1015z AIK SUN
E25 6140kHz 1015z 07/04 ///XMTR/CARRIER ON, MAIN XMSN STARTS ABOUT 10SEC
LATER... - - 1016z AIK SUN
E25 6140kHz 1015z 07/04
YL [995 9902
REBEAT REBEAT REBEAT
2033 2023 9755 9412 9614 2887 4995 9902
END OF MESSAGE END OF TRANSMISSION]
///NO INTRO. WEAK END OF MESSAGE END OF XMSN 1016z AIK SUN
E25 6140kHz 0954z 08/04 ///XMTR/CARRIER ON, MAIN XMSN STARTS ABOUT 2MIN LATER...
- - 1002z AIK MON
E25 6140kHz 0958z 08/04
YL [5...(REALLY FAINT AT THE BEGININNG) 575 2 575 2 575 2 575 2 575 2 575 2 575
2 575 2 575 2 575 2 575 2 575 2 575 2 575 2
MESSAGE MESSAGE MESSAGE
END OF MESSAGE END OF MESSAGE
5
END OF TRANSMISSION]
///TONE INTRO RETURNS. THIS ID SEEMS TO BE ONLY USED FOR E25a MSGS. I HAVE ONLY
2 OTHER ENTRIES FOR THIS ID, 21/06/12 & 22/06/12 BOTH OF THEM ON 6140kHz AT THE
SAME TIME-0958z. WEAK END OF XMSN 1002z AIK MON

E25 6140kHz 0921z 09/04 ///XMTR/CARRIER ON, MAIN XMSN STARTS ABOUT 2MIN LATER...
- - 0931z AIK TUE
E25 6140kHz 0923z 09/04
YL [333 333 333 333 333 333 333 333 333 333 333 333 333 333 333
MESSAGE MESSAGE MESSAGE
3090 1420 1125 3861 6776 2993 2536 1303 1420
REBEAT REBEAT REBEAT
3090 1420 1125 3861 6776 2993 2536 1303 1420
END OF MESSAGE END OF TRANSMISSION]
///TONE INTRO. WEAK END OF MESSAGE END OF XMSN 0931z AIK TUE

E25 6140kHz 0903z 10/04 ///XMTR/CARRIER ON, MAIN XMSN STARTS ABOUT 10MIN LATER.
XMTR FLICKERS ON AND OFF MOMENTAIRILY BEFORE THE FOLLOWING MSG... - - 932z AIK WED
E25 6140kHz 0913z 10/04
YL [950 950 950 950 950 950 950 950 950 950 950 950 95]
///TONE INTRO. XMTR OFF, THEN ON AGAIN @0914 TO FINISH MSG. WEAK 95 0914z AIK WED
E25 6140kHz 0914z 10/04
YL [MESSAGE MESSAGE MESSAGE
4001 1055 0380 6086 0130 0824 6785 4186 6796 0380
REBEAT REBEAT REBEAT
4001 1055 0380 6086 0130 0824 6785 4186 6796 0380
END OF MESSAGE END OF TRANSMISSION]
///NO INTRO WEAK END OF MESSAGE END OF XMSN 0917z AIK WED

E25 6140kHz 0930z 10/04
YL [33 33 3 333 333 333 333 333 333 333 333 333 333 333 333 333
MESSAGE MESSAGE MESSAGE
3090 1420 1125 3861 6776 2993 2536 1303 1420]
WEAK 1420 0933z AIK WED
E25 6140kHz 0933z 10/04
YL [REBEAT REBEAT REBEAT
3090 1420 1125 3861 6776 2993 253]
WEAK 253 0934z AIK WED
E25 6140kHz 0934z 10/04

YL [1303 142]
WEAK 142 0935z AIK WED
E25 6140kHz 0935z 10/04
YL [END OF MESSAGE]
WEAK END OF MESSAGE 0935z AIK WED

E25 6140kHz 0939z 10/04 ///XMTR/CARRIER ON, FLICKERS OFF TWICE. - - 0941z
E25 6140kHz 0941z 10/04 ///XMTR/CARRIER ON, FLICKERS OFF FOUR TIMES THEN UMM
KULTHOM "ENTA OMRI" STARTS UP AND IS CUT SHORT. - - 0943z AIK WED
E25 6140kHz 0943z 10/04 ///XMTR/CARRIER ON, MAIN XMSN STARTS MOMENTAIRILY... - -
0949z AIK WED
E25 6140kHz 0943z 10/04
YL [3(LONG PAUSE) 350 350 350 350 350 350 350 350 350
MESSAGE MESSAGE MESSAGE
1099 2311 4021 1122 8862 6975 3891 4825 5051 0440 7360 2311
REBEAT REBEAT REBEAT
1099 231]
///UMM KULTOM "ENTRA OMRI" INTRO. WEAK 231 0949z AIK WED
E25 6140kHz 0950z 10/04 ///XMTR/CARRIER ON, MAIN XMSN STARTS MOMENTAIRILY... - -
0952z AIK WED
E25 6140kHz 0950z 10/04
YL [REBEAT REBEAT REBEAT
1099 2311 4021 1122 8862 6975 3891 4825 5051 0440 7360 2311
END OF MESSAGE END OF TRANSMISSION]
WEAK END OF MESSAGE END OF XMSN 0952z AIK WED

E25 6140kHz 0829z 11/04 ///XMTR/CARRIER ON THEN OFF FOR A FEW SECS. NO MSG. - -
0829z AIK THU

E25 6140kHz 0754z 13/04 ///XMTR/CARRIER ON, MAIN XMSN STARTS A FEW SECONDS
LATER. THE DRIFTING XMTR. - - 0757z AIK SAT
E25 6140kHz 0754z 13/04
OM [804 804 804 804 804 804
MESSAGE MESSAGE MESSAGE
8981 0914 2380 2382 2751 0828 8841 5617 1527 8751
REBEAT REBEAT REBEAT
1898 4190 0832 2382 2751 0828 8841 5617 1527 8751
END OF MESSAGE END OF TRANSMISSION]
///NO INTRO. LIVE XMSN. NEW "OM" VOICE. FIRST FEW NUMBERS OF THE MSG REVERSED
FROM THE SECOND REP. CARRIER W/ USB ONLY. THE DRIFTING XMTR WITH THE "RINGING"
NOISE. SECOND TIME "OM" USED,LAST WAS 19/01/13. WEAK END OF MESSAGE END OF XMSN
0757z AIK SAT

E25 9450kHz 1144z 01/04 ///XMTR/CARRIER ON, MAIN XMSN STARTS 15 MINUTES LATER.
DURING THIS "INTERMITTANCE", A SPIDER SOLITARE GAME COMMENCED AND @ 1145 THE YL
BROADCAST A "2". NOW USUALLY, BUT NOT ALWAYS A MINUTE AFTER THE XMSN COMES ON,
THE MSG STARTS. NOT TODAY. THE SOLITARE GAME PROCEEDED ON... - - 1205z AIK MON

E25 9450kHz 1159z 01/04
YL [70 270 270 270 270 270 270 270 270 270* 270 270 270 270 270 270 2!70 270
270! 270! 270 270 270 27*0 270 270 270 270 270 270 270 270 270* 270 270 270 270
270 27!0 270 ~270 270* 270 270 270 270 270 27*0 270 270 270 270 270 270! 270 ~*
MESSAGE MESSAGE MESSAGE
REBEAT REBEAT REBEAT
END OF MESSAGE END OF TRANSMISSION] ///NO INTRO.
NUMBER GROUPS REPEATED 55 TIMES. "*"= SPIDER SOL. "DEAL" SOUND, "!"= SPIDER SOL.
"BLING" SOUND, "~"= UNSPECIFIED/UNRECOGNISED GAME NOISE.
VERY STRONG END OF MESSAGE END OF XMSN 1205z AIK MON

E25 9450kHz 1112z 04/04 ///XMTR/CARRIER ON, MAIN XMSN STARTS ABOUT 3 MIN
LATER... - - 1121z AIK THU
E25 9450kHz 1115z 04/04
YL [880 880 880 880 880 880 880 880 880 880 880 880 880 880 880 880
MESSAGE MESSAGE MESSAGE
0230 4031 1995 1556 2356 2845 8276 6627 7697 0756 8752 1656 0230
REBEAT REBEAT REBEAT
0230 4031 1995 1556 2356 2845 8276 6627 7697 0756 8752 1656 0230
END OF MESSAGE] ///NO INTRO.
STRONG → FAIR QRM2 END OF MESSAGE 1119z

E25 9450kHz 1121z 05/04 ///XMTR/CARRIER BRIEFLY ON THEN OFF. NO MSGS. - - 1124z AIK FRI
E25 9450kHz 1301z 05/04 ///XMTR/CARRIER BRIEFLY ON THEN OFF. NO MSGS. - - 1302z AIK FRI

E25a April

E25a 6140kHz 0653z 04/04 ///XMTR/CARRIER ON, MAIN XMSN STARTS ABOUT 7 MIN LATER.
XMTR BREIFLY SWITCHED OFF FOR ABOUT 20 SEC JUST BEFORE SHUTTING DOWN COMPLETELY
ON THIS XMSN SET... - - 0703z AIK THU
E25a 6140kHz 0700z 04/04
YL [806 1 806 1 806 1 806 1806 1 806 1 806 1 806 1 806 1 806 1 806 1 80
(XMTR SHUTS OFF)] ///NO INTRO.
STRONG EIGHT-ZERO 0701z AIK THU

E25a 6140kHz 0936z 12/04 ///XMTR/CARRIER ON, MAIN XMSN STARTS ABOUT 7MIN LATER...
- - 0952z
E25a 6140kHz 0944z 12/04
YL [3355 355 4 355 4 355 4 355 4 355 4 355 4 355 4 355 4 355 4 355 4 355 4
355 4 355 4 355 4 355 4 355 4 355 4 355 4 355 4 355 4 355 4 355 4 355 4
MESSAGE MESSAGE MESSAGE
REBEAT REBEAT REBEAT
END OF MESSAGE END OF TRANSMISSION]
///UMM KULTOM "ENTRA OMRI" INTRO. WINDOWS "SHUTDOWN.WAV" @ END OF XMSN. FAIR END
OF MESSAGE END OF XMSN 0952z AIK FRI

6140kHz0959z 28/04 [575 3] 1002z YL ended Mx3 Rx3 EOM, AM, QSA2 MG SUN

9450kHz 1150z 06/04 ///XMTR/CARRIER ON, MAIN XMSN STARTS ABOUT 9MIN LATER- - 1202z AIK SAT
E25a 9450kHz 1159z 06/04
YL [277 3 4 277 3 4 277 3 4 277 3 4 277 3 4 277 3 4 277 3 4 277 3 4 277 3 4 277
3 4 277 3 4 277 3 4 277 3 4 277 3 4 277 3 4 277 3 4 277 3 4 277 3 4 277 3 4
3 4
MESSAGE MESSAGE
END OF MESSAGE END OF TRANSMISSION] ///NO INTRO.
STRONG END OF MESSAGE END OF XMSN 1202z AIK SAT

E25a 9450kHz 1300z 06/04 ///XMTR/CARRIER ON THEN OFF. NO MSGS - - 1302z AIK SAT
E25a 9450kHz 1313z 06/04 ///XMTR/CARRIER ON, MAIN XMSN STARTS ABOUT 30SEC
LATER... - - 1318z AIK SAT
E25a 9450kHz 1313z 06/04
YL [785 3 785 3 785 3 785 3 785 3 785 3 785 3 785 3 785 3 785 3 785 3 785 3
3 785 3 785 3 785 3 785 3 785 3 785 3 785 3
MESSAGE MESSAGE MESSAGE
REBEAT REBEAT REBEAT
END OF MESSAGE END OF TRANSMISSION
END OF MESSAGE END OF TRANSMISSION] ///NO INTRO.
STRONG END OF MESSAGE END OF XMSN 1317z AIK SAT

9450kHz 1315z 06/04[785 3] 1318z Mx3, Rx3, EOM+EOTx2, QSA5 MG SAT

E25a 9450kHz 1114z 07/04 ///XMTR/CARRIER ON, MAIN XMSN STARTS ABOUT 30SEC
LATER... - - 1119z AIK SUN
E25a 9450kHz 1115z 07/04
YL [887 2 887 2 887 2 887 2 887 2 887 2 887 2 887 2 887 2 887 2 887 2 887 2
2 887 2 887 2
MESSAGE MESSAGE MESSAGE
REBEAT REBEAT REBEAT
END OF MESSAGE END OF TRANSMISSION]
///NO INTRO. THIS ID SEEMS ONLY TO BE USED FOR "E25a" MSGS. I HAVE ONLY 2 OTHER
ENTRIES FOR THIS ID, 12/01/12 & 03/04/12 BOTH OF THEM ON 6140kHz, BUT ALL ARE AT
THE SAME ZULU TIME +- A MINUTE. WEAK END OF MESSAGE END OF XMSN 1117z AIK SUN

G06

PoSW's G06 log:

Second + Fourth Thursdays in the Month 1830 UTC Schedule:-
14-Mar-13:- 5,934 kHz, calling "579", DK/GC "564 564 15 15". Seasonal change of frequency from 4,519 kHz used in the depths of winter to this slot inside the 49 metre broadcast band. Slight sideband splash from a nearby BC station.

28-Mar-13:- 5,934 kHz, "579" and "564 564 15 15" again, strong broadcaster on 5,930 something of a pain.

11-Apr-13:- 5,934 kHz, call "579", DK/GC "564 564 15 15", same 5F message as in March. The BC station on 5,930 seems to have gone, moved to a higher frequency band for the summer season perhaps.

25-Apr-13:- 5,934 kHz, "579" and "564 564 15 15" again. Let's hope the message got through!

Friday Following the Second + Fourth Thursdays in the Month 1930 UTC Schedule:-
15-Mar-13:- 5,442 kHz, seasonal change from winter frequency 4,792 kHz, call "947", DK/GC "647 647 15 15".

29-Mar-13:- 5,442 kHz, "947" and "647 647 15 15" again.

12-Apr-13:- 5,442 kHz, call "947", DK/GC "647 647 15 15", same 5Fs as in March.
No sign of a carrier on 5,442 when tuned in a minute or so before the half-hour; the reason for this was that unusually, the mode of transmission was single sideband suppressed carrier. Observed on a few occasions in the past on related E06 and S06 transmissions but don't recall G06 using it before.

26-Apr-13:- 5,442 kHz, transmitted in upper sideband carrier suppressed mode again. Getting to be a habit! "947" and "647 647 15 15" again. Started approx. 40 seconds before the half-hour.

First + Second Mondays in the Month 1700 + 1800 UTC Schedule:-
4-Mar-13:- 1800 UTC, 5,424 kHz, "564 564 564 00000", S8 to S9, second sending at 6 pm UK time.

11-Mar-13:- 1800 UTC, 5,424 kHz, "564 564 564 00000".

1-Apr-13:- 1800 UTC, 5,424 kHz, same frequency as in March, "564 564 564 00000". Peaking S9 on a clear frequency. Now on one hour later in the UK with the start of summertime, 7 PM BST. Unable to find the first sending at 1700 UTC.

8-Apr-13:- 1800 UTC, 5,424 kHz, "564 564 564 00000". S9 signal, still unable to find a transmission at 1700 UTC which is strange because this was such a strong signal.

RNGB's G06 log March

Mon 4th	08:00	6774	'215' 00000	
	17:00	4569	'564' 00000	
	18:00	5424	'564' 00000	
Mon 11th	08:00	6774	'215' 00000	Sent as M14 for first 2 minutes
	17:00	4569	'564' 00000	
	18:00	5424	'564' 00000	
Mon 18th	08:00	6774	'215' 00000	
Mon 25th	08:00	6774	'215' 00000	

G06 log April

Mon 1st	08:00	6774	'215' 253 43 86739 81178 86313 80423.....28659
	18:00	5424	'564' 00000
Friday 5th	20:00	7377	'239' 00000
Friday 19th	20:00	7377	'239' 00000
Mon 22nd	08:00	6774	'215' 253 43 86739 81178 86313 80423.....28659
Mon 29th	08:00	6774	'215' 253 43 86739 81178 86313 80423.....28659

March2013:

4569kHz1700z	11/03[564 00000]		HFD, tiNG	MON
5424kHz1800z	11/03[564 564 564 00000] 1803z		CH10, tiNG	MON
5442kHz1930z	15/03[947 647 15 37264 ... 17362 647 15 00000(s)] 1937z Strong	(8m27s)	Spectre, PLdn	FRI

947 647 647 15 15
37264 38594 71835 04729 47244
38216 47309 12736 26354 26374
19284 56302 00305 28492 17362
647 647 15 15 0 0 0 0 0
Courtesy tiNG, Spectre

1930z	29/03[947 647 15 37264 ... 17362 647 15 00000(s)] 1937z Strong	(8m27s)	Spectre, tiNG, CH10	FRI
5934kHz1830z	14/03[579 564 15 67564 … 78563 564 15 00000(s)] 1837z Strong	(7m27s)	PLdn	THU
6774kHz0800z	04/03[215 00000] Medium/strong signal, strong noise		FR	MON
0800z	18/03[215 00000] Weak/medium signal, strong noise		FR	MON
0800z	25/03[214x3 00000]		GD	MON

April2013:

4526kHz1300z	18/04[215 253 43 first 20grps missed ... 47386 54914 28759 253 253 43 43 00000] 1316z Vienna GT		tiNG	THU
4567kHz1700z	01/04[564 564 564 00000 R4m] 1804z QSA4 QRM5 QRN4 QSB4		tiNG	MON
1700z	08/04[564 564 564 00000 R3m] 1703z QSA3 QRM5 QRN4 QSB4		tiNG	MON
5424kHz1800z	01/04[564 564 564 00000 R4m] 1804z QSA4 QRM5 QRN4 QSB4		tiNG	MON
1759z	08/04[564 00000(s)] 1803z Strong		Hans, tiNG	MON
5442kHz1930z	26/04[947 647 15 37264 ... 17362 647 15 00000(s)]		HJH, CH10	FRI
5934kHz1930z	25/04[579 564 15 67564 … 78563 564 15 00000(s)] Very strong	(6m27s)	PLdn, JkC	THU

G06 5934kHz 1826z 25/04
579 564 15
67564 56453 57876 54345 19878
64534 64532 16754 89657 67453
24657 47654 78965 67231 78563
564 15 00000 *Courtesy JkC*

6774kHz0800z	01/04[215 253 43 86739 ... 28659 253 43 00000] Weak/medium signal, moderate noise		FR	MON

215 253 43
86739 81178 86313 80423 19279
50952 81507 96563 77866 82799
97353 81321 65652 38297 65614
33335 99304 97576 67097 81987
11847 93030 61648 86635 25253
29437 91923 74564 63210 88282
04092 43746 78677 09661 65032
15131 65723 21562 47732 37092
47386 54914 28659
00000 *Courtesy FR*

0801z	08/04[215 253 43 86739 81178 ... 28659] 0815z Fair QSB3 (Started as E06 at 0759z but G06 took over after two minutes).		Hans	MON
0800z	22/04[215.....00000]0810 S1 weak		M8	MON

G11

G11 log March/April

5815kHz	1325z	01/03 [299/00] Fair	RNGB	FRI
	1325z	02/03 [299/00] Fair	RNGB	SAT
	1755z	03/03 [23501 16909 32784 50091 46349…..54234]	Fox	SUN
	1755z	05/03 [270/00] Ende 1758z QSA4 QRM4 QRN5 QSB5	Thomas	TUE
	1325z	08/03 [299/00]	Fox	FRI
	1325z	09/03 [296/37 ACHTUNG 73101 63280 11247…..33282] Ende 1335z	Thomas	SAT
	1755z	10/03 [270/00] Ende 1758z	Thomas	SUN
	1755z	12/03 [270/00] Good	RNGB	TUE
	1325z	15/03 [294/37 16997 08489 07264 09739 77673…..87949]	Spectre	FRI
	1325z	16/03 [299/00] Strong	Fox	SAT
	1325z	22/03 [299/00] Fair	RNGB	FRI
	1325z	23/03 [299/00] Strong	Fox	SAT
	1755z	24/03 [276/33 62956 57547 67557 44481 37640…..85609] Good	RNGB	SUN
	1755z	26/03 [278/30 81287 88841 … 76735 28220] Ende 1804z	Thomas	TUE
	1325z	29/03 [299/00] R3m Ende1328z	Thomas	FRI
	1755z	31/03 [270/00] Good	RNGB	SUN
	1755z	02/04 [270/00] Good	RNGB, Thomas	TUE
	1325z	06/04 [299/00] Strong	Fox	SAT
	1755z	07/04 [270/00]	RNGB	SUN
	1755z	09/04 [270/00] Good	RNGB	TUE
	1325z	12/04 [298/37…..]	GD	FRI
	1755z	16/04 [270/00]	RNGB	TUE
	1325z	26/04 [299/00] R3m Ende1328z Weak QRM2 QSB3	JkC	FRI
	1755z	28/04 [279/30 18522 42412 31835 55614…..91860] Clipped fugure 3	RNGB, JkC	SUN
6433kHz	2000z	01/03 [263/36 05922 01896 86144 19757 74861…..65210] Strong	RNGB	FRI
	2000z	03/03 [262/00] Strong	RNGB, Fox	SUN
	2000z	08/10 [264/34 90548 36299 23656 72864…..83773] Voice malfunction	Spectre	FRI
	2000z	10/03 [264/34 90548 26299 23656 72864 95850…..83773] Strong	Fox	SUN
	2000z	15/03 [262/00] Strong	RNGB	FRI
	2000z	22/03 [262/00] Strong	RNGB	FRI
	2000z	24/03 [262/00] Ende 2004z	Chris, Fox	SUN
	2000z	29/03 [262/00] Ende 2004z	Chris	FRI
	2000z	31/03 [261/33 96009 08096 11524 33945 58860…..76449]	Fox	SUN
	2000z	05/04 [262/00]	RNGB	FRI
	2000z	07/04 [262/00]	RNGB	SUN
	2000z	19/04 [262/00] Good	RNGB	FRI
	2000z	28/04 [265/38 21455 62614 66775 19970 .....28117] Ende 2011z Strong	Jkc	FRI
	2000z	28/04 [265/38 21455 62614 66775 19970 .....28117] Ende 2011z Strong	Jkc, Hans	SUN

S06

RNGB S06 log March:

Sat 2nd	19:30	5823	'426' 00000
	20:00	4967	'319' 00000
	21:00	4019	'319' 00000
	21:30	5917	'857' 00000
Mon 4th	19:05	5127	'349' 00000
Weds 6th	08:30	9225	'480' 531 40 34507 52090 44544 08172.....
Thurs 7th	19:00	5784	'349' 00000
Sat 9th	19:35	4772	'426' 00000
Mon 11th	19:00	5784	'349' 00000
	19:15	11030	'865' 00000
	20:15	9140	'865' 00000
Weds 13th	08:30	9225	'480' 192 44 38242 46045 16619 94601.....99271
	09:00	6810	'480' 192 44 38242 46045 16619 94601.....99271
Mon 18th	08:30	9225	'480' 613 45 29872.....76308 38133
Tues 19th	09:00	6810	'480' 952 44 ?
Weds 20th	08:30	9225	'480' 716 42 85415 05660 12561 99127.....84886 91515
Thurs 21st	08:30	9225	'480' 925 44 73201 71458 72797 15128.....57159 43347
Sat 23rd	16:05	7472	'764' 00000
Mon 25th	08:30	9225	'480' -75 43 07833 86229 49643 26658.....
	19:05	5127	'349' 00000
	19:15	11030	'865' 00000
	20:15	9140	'865' 00000
Tues 26th	08:30	9225	'480' 361 42 01365 95883 34722 11922.....64582
Weds 27th	08:30	9225	'480' 279 40 18917 65670 07835 69607.....57563
Thurs 28th	19:05	5127	'349' 00000

S06c log March:

Monday 4th	1100z	9933kHz	11212 x 4 mins	(Marco)

S06s March report:

S06s ID 481 was found on 8269 at 0800 on THURSDAY 21st sending nulls. No other transmission found.

S06s log March:

Mondays			
4th/11th	0830/0840	9220/8270	‘371’ 982 5 29245 28842 82264 14255 81545
18th/25th			‘371’ 284 5 23143 67586 90784 56553 23143
4th/11th	0900/0910	9145/11460	‘872’ 946 5 96721 36793 53038 76342 78386
18th/25th			‘872’ 961 5 78563 45213 89065 45342 78695
4th/11th	1200/1210	14580/	‘831’ 204 5 94289 15244 21541 56567 48850
18th/25th			‘831’ 405 6 56473 78698 56423 12312 90895 50131
Tuesdays			
5th/12th	0600/0610	14080/11285	‘438’ 296 5 37528 45513 58729 92565 93628
19th/26th			‘438’ 261 5 67534 89056 43121 45342 78645
5th/12th	0700/0715	5760/6930	‘374’ 916 5 64167 85202 85141 83464 86736
19th/26th			‘374’ 852 6 45321 89674 50985 34216 78563 90772
5th/12th	0730/0740	6512/8480	‘427’ 836 5 16945 80744 86200 84706 42227
19th/26th		11560/12140	‘427’ 860 5 46647 79302 53516 25616 96813
5th/12th	0800/0810	11635/10420	‘352’ 816 7 96111 10544 98003 68909 45279 43828 55581
19th/26th			‘352’ 906 7 39537 17228 15636 47891 23247 17099 23521
5th/12th	1000/1010		‘893’ 426 5 78172 63546 09812 67835 39064
19th/26th			‘893’ 240 5 63919 92699 14600 74248 48754
5th/12th	1500/1510	6464/	‘537’ 928 6 82561 77857 94350 32314 18673 18495
19th/26th			‘537’ 249 6 82707 06123 22536 88280 84116 53820
Wednesdays			
6th/13th	0730/0740	7120/	‘481’ 579 6 41281 97474 63175 35245 44573 13557
20th/27th			‘481’ 592 6 16070 48834 53735 61088 02440 59354
6th/13th	0820/0830	7605/	‘471’ 286 5 88554 11171 64385 82707 06123
20th/27th			‘471’ 832 5 77249 40678 17976 21815 42997
6th/13th	0830/0840	11854/12140	‘745’ 239 6 45279 43828 55581 20044 96813 14131
20th/27th			‘745’ 812 6 16634 14690 95590 60386 03009 81413
6th/13th	0840/0850	8712/9824	‘328’ 965 7 95590 60386 03009 81413 94073 65906 66610
20th			‘328’ 596 7 81022 92060 11479 70552 56936 57989 05371
6th/13th	1000/1010	13365/	‘729’ 431 5 42597 67857 67758 08613 81375
20th/27th			‘729’ 813 5 11160 43494 37638 16070 31670
6th/13th	1230/1240	7620/8105	‘967’ 841 5 02312 53565 23636 80221 61841
20th/27th			‘967’ 483 5 60583 54545 50128 99477 48874
Thursdays			
7th (E17z)	0800/0810	14260/	‘674’ 981 5 39534 17228 15636 47891 23247
21st/28th			‘674’ 231 5 14690 11749 79552 65906 64385
7th/14th	0900/0910	12952/	‘167’ 984 5 10597 23521 47660 92883 96801
21st/28th			‘167’ 234 5 78563 80945 13214 56443 90994
7th/14th	0900/0910	5744/6524	‘624’ 950 8 (too weak to copy)
21st/28th			‘624’ 901 5 56432 67664 87871 99534 11186
7th/14th	0930/0940	8650/	‘314’ 982 5 53516 25616 56069 96813 14199
21st/28th			‘314’ 297 5 65342 13254 80956 45434 76763
7th/14th	1200/1210	12415/	‘425’ 870 6 11171 64385 82707 06123 22536 88280
			‘425’ 879 6 45432 89674 56423 13219 67563 88821
Fridays			
1st/8th	0600/0610	8546/10935	‘934’ 206 5 19286 47362 72356 89450 21354
15th/22nd			‘934’ 506 7 33796 13577 74526 46647 79302 53516 25616
1st/8th	0700/0710	7795/	‘196’ 827 5 78465 77381 02988 47388 23909
15th/22nd			‘196’ 834 5 88620 58069 61732 74374 57440
1st/8th	0800/0810	5810/	‘278’ 591 6 74537 57440 10597 23521 47832 79302
15th/22nd			‘278’ 590 6 67453 80966 2-153 78656 34339 90995
1st/8th	0930/0940	12140/	‘516’ 920 7 11171 64385 83707 06123 22536 88280 84116
			‘516’ 823 7 89563 45231 79674 09784 34321 87872 43331

S06 log April:

Mon 1st	08:30	9225	‘480’ 516 43 02603 75046 63126 93200 05567.....43904
Tues 2nd	18:00	5890	‘286’ 00000
Weds 3rd	08:30	9225	‘480’ 629 40 56799 23172 12538 90406 07709.....84703
Thurs 4th	08:30	9225	‘480’ 732 41 71343 84626 82319 77855 15874.....68700
Friday 5th	08:30	9225	‘480’ 251 40 25259 82385 32074 31883 76448.....35975
Mon 8th	08:30	9225	‘480’ 652 41 68128 53518 23246 76308 38133.....46795
	18:15	13440	‘116’ 00000
	19:15	11105	‘116’ 00000
Tues 9th	18:00	5890	‘286’ 00000
Weds 10th	20:00	5422	‘764’ 958 32 00634 14533 68335 95135.....13983
Weds 17th	08:30	9225	‘480’ 257 43 -3995 ..... (V. weak)
Weds	20:05	4542	‘764’ 958 32 00634 14533 68335 95135.....13983
Thurs 18th	08:30	9225	‘480’ 751 42 05853 69226 10439 27337 32993.....84886 91515
Thurs	19:00	5784	‘349’ 00000
Sat 20th	20:00	4019	‘319’ 00000
Sat	20:00	5919	‘857’ 00000
Mon 22nd	08:30	9225	‘480’ 697 41 77479 03752 62892 95901…..73310 61447
	19:00	5784	‘349’ 00000
Thurs 25th	08:30	9225	‘480’ 327 40 29592 99312…..etc
Fri 26th	08:30	9225	‘480’ 621 43 66180 99221 99945 62554…..43904

S06s April report:

ID 328 found sending nulls on Weds 3rd using 9249/9856/10108/10549/10856/11405 and reverted to normal schedule

with messages on the 17th.
ID 934 sending nulls on Friday 5th using 7516/8056/8529/9078/9457/10148 and message sending from the 19th
Using 9078/10148

S06s log April:

Mondays			
1st/8th	0830/0840	9220/8270	'371' 294 5 12247 17099 94961 35826 64385
15th/22nd			'371' 960 5 24035 48115 24151 51802 23807
1st/8th	0900/0910	14580/13165	'872' 935 6 45279 43828 55581 20044 70552 47665
15th/22nd			'872' 905 6 40613 77249 40678 17976 21816 42997
1st/8th	1200/1210	9145/11460	'831' 924 5 18264 57468 09128 45683 92287
15th/22nd			'831' 542 6 15009 34140 78386 91497 82963 24162
Tuesdays			
2nd/9th	0600/0610	14080/12850	'438' No reports
16th/23rd			'438' 257 6 13577 74526 46647 79302 53516 25616
2nd/9th	0700/0715	5760/6930	'374' 268 5 46062 68672 97478 39685 30485
16th/23rd			'374' 820 5 65906 88452 17301 88554 36717
2nd/9th	0730/0740	6512/8480	'427' 903 5 21767 53672 11834 81022 36903
16th/23rd		11560/12140	'427' 910 5 30795 74084 18013 88554 24042
2nd/9th	0800/0810	11635/10420	'352' 901 6 05899 50387 45847 23013 89758 52343
16th/23rd			'352' 940 6 20336 17301 36717 75965 31670 52985
2nd/9th	1000/1010	6410/7340	'893' 214 5 78564 90673 45215 67534 66612
16th/23rd			'893' 270 5 11171 64385 82707 06123 34694
2nd/9th	1500/1510	6464/7242	'537' 281 6 89675 45327 56412 67543 90884 12118
16th/23rd			'537' 940 6 55581 20044 52985 53006 41879 84648
Wednesdays			
3rd/10th	0730/0740	7120/6415	'481' 905 7 87930 91643 46645 74593 38711 44778 40670
17th			'481' 953 6 18273 56473 90187 36257 67819 90215
3rd/10th	0820/0830	7605/9255	'471' 263 5 16744 96234 48310 98273 95331
17th/24th			'471' 285 6 11171 64385 82707 06123 22536 84116
3rd/10th	0830/0840	11854/12140	'745' 938 6 45766 88178 99653 81377 35102 86191
17th/24th			'745' 923 6 78687 65409 26355 47823 34529 20336
17th/24th		8712/9824	'328' 560 7 92712 63591 42637 56123 25670 24757 55646
3rd/10th	1000/1010	13365/14505	'729' 415 6 29874 69114 66601 50509 42834 34654
17th/24th			'729' 460 5 66472 31421 49876 09675 24166
3rd/10th	1230/1240	7620/8105	'967' 253 8 14535 17399 88976 24331 41940 20917 74661 11207
17th/24th			'967' 208 5 74635 10968 28175 33410 90981
Thursdays			
4th (E17z)	**0800/0810**	**14260/12930**	**'674' 201 5 13577 74526 46647 79302 84116**
18th/25th			**'674' 293 5 78563 45231 79856 45321 90783**
4th/11th	0900/0910	12952/13565	'167' 230 5 48754 65125 41879 84648 42036
18th/25th			'167' 428 5 46523 12196 89856 45342 89881
4th/11th	0900/0910	5744/6524	'624' 501 7 77159 95225 84090 09531 88430 33240 61135
18th/25th			'624' 935 8 68745 89342 56475 09991 56551 09713 56551 34281
4th/11th	0930/0940	8650/	'314' 802 5 17976 21816 42-97 ?????
18th/25th			'314' 295 6 56432 89756 45401 56431 90741 89351
4th/11th	1200/1210	12415/	'425' 807 6 47891 23247 17099 94961 35826 65906
18th/25th			'425' 906 7 46062 68672 97478 39685 30485 96632 52537
Fridays			
12th?/19th	0600/0610	9078/10148	'934' 520 6 57856 98835 46186 16945 80744 86200
26th			'934' 00000
5th/12th	0600/0610	7795/	'196' 204 5 06123 22536 88280 84116 53718
19th/26th			'196' 238 5 33796 13577 74526 46647 79302
5th/12th	0800/0810 ?	/5810	'278'
19th/26th			'278' 456 9 96320 36793 53038 76342 15009 34140 78386 91497 48115
5th/12th	0930/0940	12140/	'516' 943 7 60386 03009 81413 94073 83531 94063 05371
			'516' 437 8 96111 10544 98003 68909 45279 43828 55581 20044
Saturday			
6th	1200/1210	10350/	'254' 973 6 16945 80744 86200 84706 42227 61736

Others S06 logs, March/April:

<u>March2013:</u>

4967kHz2000z	16/03[319x3 00000]	GD	SAT
5127kHz1905z	04/03[349 00000.]1908z S9	M8, tiNG	MON
1905z	14/03[349 349 349 00000....349 349 349 00000(s)] 1909z	CH10	THU
1905z	18/03[349 349 349 00000 (s)] 1909z	CH10, HJH, tiNG	MON
1905z	21/03[349 349 349 00000 (s)] 1910z	CH10, HJH, FR	THU
1900z	25/03[349 349 349 00000(s)] 1910z	CH10, tiNG	MON
1905z	28/03[349 349 349 00000] 1909z	CH10	THU

5784kHz1900z	07/03[349 00000] 1904z Fair BCQRM4 QSB2	Spectre, FR, MP	THU
1900z	11/03[349 00000] 1904z Fair BCQRM4 QSB2	Spectre	MON
5823kHz 1930z	23/03[426 426 426 00000 (s)] 1938z	CH10	SAT
7472kHz1605z	09/03[764 00000] 1609z Fair QRN3 QSB3	Spectre	SAT
1605z	23/03[764 00000] Very strong signal, weak/moderate noise	FR	SAT
11030kHz1915z	25/03[865 865 865 00000 R4m] 1919z QSA3 QRM5 QRN4 QSB3	tiNG	MON

April2013:

4772kHz1937z	20/04[426 00000] 1939z (found i/p) Strong	Hans	SAT
4977kHz1900z	20/04[319 00000] 1934z Fair/Strong QSB3	Hans	SAT
5127kHz1905z	01/04[349 349 349 00000 .. 349 349 349 00000] 1909z	CH10	MON
1905z	11/04 [349 00000] 1909z Fair QRN3 QSB3	Spectre	THU
5784kHz1900z	08/04[349 00000] 1904z Fair QRN3 QSB3	Spectre	MON
1900z	15/04[349 00000 R4m] Fair QRM2 QSB2	JkC,Ch10, HJH	MON
1900z	18/04[349 R3 00000] 1904z Strong QRM2 QSB2	JkC	THU
1900z	22/04[349 00000 r ; nul msg] QSA3-5 on WebSDR	DanDe	SUN
1900z	25/04[349 00000] 1904z Fair QRN3 QSB3	Spectre	THU
5823kHz1930z	27/04[426 426 426 00000] 1935z STRONG	CH10	SAT
5890kHz1800z	02/04[286 286 286 00000 R4m] 1804z QSA4 QRM2 QRN4 QSB3	tiNG	TUE
5919kHz 2000z	20/04[897 00000] 2004z Fair QRN2 QSB2	Spectre	SAT
6879kHz1900z	20/04[857 00000] 1904z Strong	Hans, FN	SAT
8177kHz1600z	06/04[764 958 32 00634 ... 13983 958 32 00000] 1611z Fair QRN3 QSB3	Spectre	SAT
1600z	20/04[764 958 32 00634 ... 13983 958 32 00000] 1611z Strong QRN3 QSB3	Spectre	SAT

S06 8177kHz 1600z 06&20/04 Transcript:
764 958 32
00634 14533 68335 95135 36640 20790 13190 46871 31377 97484
69238 42995 18775 29363 42909 06365 57777 00010 93049 49043
62172 75503 14509 15819 26119 62858 86121 22128 86185 47265
34367 13983
958 32 00000 *Courtesy Spectre*

9225kHz0830z	05/04[480 251 40 25259 82385 ... 35975] 0841z Fair	Hans	FRI
0830z	08/04[480 651 41.....]very weak	M8	MON
0830z	11/04[480 913 40 29604 ... 54413 913 40 00000] 0840z Fair QRN3 QSB3	Spectre	THU
0830z	22/04[480 697 697 41 41 ....]	GD, M8	MON

S06 9225kHz 0830z 11/04 Transcript:

480 913 40
29604 26043 90696 91313 23879 33264 70090 05259 79739 54765
34415 80223 55958 41217 65183 29850 11428 29156 59073 50456
13597 38965 53912 84941 38489 09759 70477 07936 70893 69464
49623 44813 70855 95057 73628 13974 60178 05871 95713 54413
913 40 00000 *Courtesy Spectre*

11105kHz1915z	08/04[116 00000] 1819z Fair QRN3 QSB3	Spectre	MON
1915z	22/04[116 257 143 72558 ... 46543] 1943z Strong QRM2 QSB2	JkC, M8	MON

116 257 143
72558 01556 08378 84292 01148 21610 02969 19814 97877 32763
46286 19567 40018 47557 82185 27081 72062 17386 43775 64473
63094 33914 01084 35951 21970 63880 16966 89661 89026 96210
97155 87428 96543 47227 03563 32615 65130 41547 13032 68689
77549 03758 85002 62389 52801 99202 32495 49594 88831 81920
33494 01945 56113 81287 13569 86965 55364 37285 41206 51355
34514 66410 82797 08357 11952 04375 41159 83789 96768 03895
57856 55172 39609 60540 50219 11456 55015 33039 11942 07401
57136 23749 74064 45682 85713 12022 12699 52500 64389 82253
86277 21074 83424 24191 76018 03928 69389 47863 59535 45009
52081 29360 16288 70021 40978 88196 27786 17718 41317 20028
23876 50458 08307 06366 65932 02970 69636 65843 85182 30844
62063 77426 58891 26527 96995 42115 73718 7935. 36911 27385
61098 72294 05172 03139 34274 92440 59116 68438 16329 20787
83912 10080 46543
257 143 00000 *Courtesy JkC*

13440kHz1815z	08/04[116 116 116 00000] 1804z FAIR	CH10, Spectre	MON
1815z	22/04[116 297 143.....00000]1843z S8	M8	MON

S06s
March2013:

6464kHz1500z	05/03[537 928 6 82561 77857 94350 32314 18673 18495 928 6 00000(s)] 1505z Weak QRN3 QSB3	Spectre	TUE
1500z	12/03[537 928 6 82561 77857 94350 32314 18673 18495 928 6 00000(s)] 1505z Weak QRN3 QSB3	Spectre	TUE
7245kHz1510z	05/03[537 928 6 82561 77857 94350 32314 18673 18495 928 6 00000(s)] 1515z Weak QRN3 QSB3	Spectre	TUE
1510z	12/03[537 928 6 82561 77857 94350 32314 18673 18495 928 6 00000(s)] 1515z Weak QRN3 QSB3	Spectre	TUE

7385kHz0940z	07/03[314 982 5 53516 25616 56069 96813 14199 982 5 00000(s)] 0945z Weak QRN3 QSB3	Spectre	THU
0940z	14/03[314 982 5 53516 25616 56069 96813 14199 982 5 00000(s)] 0945z Weak QRN3 QSB3	Spectre	THU
7605kHz0820z	06/03[471 286 5 88554 11171 64385 82707 06123 286 5 00000] 0825z Very Weak	ATC, Spectre	WED
0820z	13/03[471 286 5 88554 11171 64385 82707 06123 286 5 00000]0825z S1	M8, Hans, Spectre	WED
7795kHz 0700z	01/03[196 827 5 78465 77381 02988 47388 23909 827 5 00000(s)] 0705z Fair QRN3 QSB3	Spectre	FRI
0700z	08/03[196 827 5 78465 77381 02988 47388 23909 827 5 00000] 0705z Fair	ATC, Spectr	FRI
0700z	15/03[196 834 5 88620 58069 61732 74374 59440 834 5 00000] Very strong signal, moderate noise	FR	FRI
0700z	22/03[196 834 5, repeat from 15/03] Very strong signal, weak noise	FR	FRI
8105kHz1240z	06/03[967 841 5 02312 53565 23636 80221 61841 841 5 00000(s)] 1245z Weak QRN4 QSB3	Spectre	WED
1240z	13/03[967 841 5 02312 53565 23636 80221 61841 841 5 00000(s)] 1245z Weak QRN4 QSB3	Spectre	WED
8270kHz0840z	04/03[371 982 5 29245 28842 82264 14255 81545 982 5 00000]0845z S4	M8	MON
0840z	25/03[371 284 5 23143 67586 90784 56553 23143 284 5 00000]0845z S1	M8	MON
8520kHz1210z	02/03[254 973 6 16945 72744 86200 84706 42227 61736 973 6 00000] Very strong, QRM	FR	SAT
8650kHz0930z	07/03[314 982 5 53516 25316 56069 96813 14199 982 5 00000] 0935z Weak	ATC, Spectre	THU
0930z	14/03[314 982 5 53516 25616 56069 96813 14199 982 5 00000(s)] 0935z Weak QRN3 QSB3	Spectre	THU
8695kHz 0710z	01/03[196 827 5 78465 77381 02988 47388 23909 827 5 00000(s)] 0715z Fair QRN3 QSB3	Spectre	FRI
0710z	08/03[196 827 5 78465 77381 02988 47388 23909 827 5 00000(s)] 0715z Fair QRN3 QSB3	Spectre	FRI
0710z	15/03[196 834 5 88620 58069 61732 74374 59440 834 5 00000] Very strong signal, moderate noise	FR	FRI
0710z	22/03[196 834 5, repeat from 15/03] Very strong signal, weak noise	FR	FRI
8712kHz 0840z	13/03[328 965 7 95590 60386 03009 81413 94073 65906 66610 965 7 00000]0845z S5	M8	WED
9145kHz1200z	04/03[831 204 5 94289 15244 21541 56567 48850 204 5 00000]1205z S3	M8	MON
1200z	25/03[831 405 6 56473 78698 56423 12312 90895 50131 405 6 00000]1205z S1	M8	MON
1200z	18/03[831 405 6 56473 78698 56423 12312 90895 50131 405 6 00000(s)] 1205z Weak QRN3 QSB3	Spectre	MON
1200z	25/03[831 405 6 56473 78698 56423 12312 90895 50131 405 6 00000(s)] 1205z Weak QRN3 QSB3	Spectre, M8, GD	MON
9220kHz0830z	04/03[371 982 5 29245 28842 82264 14255 81545 982 5 00000]0835z S9	M8	MON
0830z	25/03[371 284 5 23143 67586 90784 56553 23143 284 5 00000]0835z S4	M8, GD	MON
9255kHz0830z	06/03[471 286 5 88554 11171 64385 82707 06123 286 5 00000] 0835z Weak	ATC	WED
0830z	13/03[471 286 5 88554 11171 64385 82707 06123 286 5 00000]0835z S2	M8	WED
9824kHz0850z	13/03[328 965 7 95590 60386 03009 81413 94073 65906 66610 965 7 00000]0855z S7	M8	WED
10350kHz1200z	02/03[254 973 6 16945 72744 86200 84706 42227 61736 973 6 00000] Very strong, QRM	FR	SAT
11460kHz1210z	04/03[831 204 5 94289 15244 21541 56567 48850 204 5 00000]1215z S5	M8	MON
1210z	18/03[831 405 6 56473 78698 56423 12312 90895 50131 405 6 00000(s)] 1215z Weak QRN3 QSB3	Spectre	MON
1210z	25/03[831 405 6 56473 78698 56423 12312 90895 50131 405 6 00000(s)] 1215z Weak QRN3 QSB3	Spectre, M8	MON
11854kHz0830z	13/03[745 239 6 45279 43828 55581 20044 96813 14131] 0835z Fair BC-QRM3/4	Hans	WED
12140kHz0930z	08/03[516 920 7, repeat from 01/03] Very strong signal, weak noise	FR, ATC	FRI
0840z	13/03[745 239 6 45279 43828 55581 20044 96813 14131] 0845z Strong QSB2	Hans, M8	WED
0930z	15/03[516 823 7 89563 45231 79674 09784 34321 87872 43331 823 7 00000] Very strong, weak noise	FR	FRI
12415kHz 1200z	07/03[425 870 6 11171 64385 82707 06123 22536 88280 870 6 00000(s)] 1205z Fair QRN3 QSB3	Spectre	THU
1200z	14/03[425 870 6 11171 64385 82707 06123 22536 88280 870 6 00000(s)] 1205z Fair QRN3 QSB3	Spectre	THU
1200z	21/03[425 879 6 45432 89674 56423 13219 67563 88821 879 6 00000] 1206z QSA4 QRM5 QRN4 QSB3	tiNG	THU
12952kHz 0900z	07/03[167 984 5 10597 23521 47660 92883 96801 984 5 00000(s)] 0905z Fair CARRIERQRM2 QSB2	Spectre	THU
0900z	14/03[167 984 5 10597 23521 47660 92883 96801 984 5 00000(s)] 0905z Fair QRN3 QSB2	Spectre	THU
0900z	21/03[167 234 5 78563 80945 13214 56443 90994 234 5 00000] 0906z QSA5 QRM4 QRN5 QSB4	tiNG	THU
0900z	28/03[167 234 5 78563 80945 13214 56443 90994] 0905z Fair	Hans	THU
13515kHz0940z	08/03[516 920 7, repeat from 01/03] Very strong signal, moderate noise	FR, ATC	FRI
0940z	15/03[516 823 7 89563 45231 79674 09784 34321 87872 43331 823 7 00000] weak/moderate noise	FR	FRI
13165kHz0910z	04/03[872 946 5 96721 36793 53038 76342 78386 946 5 00000]0915z S8	M8	MON
13365kHz 1000z	06/03[729 431 5 42597 67857 67758 08613 81375 431 5 00000(s)] 1005z Fair QRN3 QSB3	Spectre	WED
1000z	13/03[729 431 5 42597 67857 67758 08613 81375] Strong	Hans, Spectre	WED
13565kHz 0910z	07/03[167 984 5 10597 23521 47660 92883 96801 984 5 00000(s)] 0915z Fair CARRIERQRM4 QSB2	Spectre	THU
0910z	14/03[167 984 5 10597 23521 47660 92883 96801 984 5 00000(s)] 0915z Fair QRN3 QSB2	Spectre	THU
0910z	21/03[167 234 5 78563 80945 13214 56443 90994 234 5 00000] 0916z QSA3 QRM5 QRN4 QSB3	tiNG	THU
14212kHz 1210z	07/03[425 870 6 11171 64385 82707 06123 22536 88280 870 6 00000(s)] 1215z Fair QRN3 QSB3	Spectre	THU
1210z	14/03[425 870 6 11171 64385 82707 06123 22536 88280 870 6 00000(s)] 1215z Fair QRN3 QSB3	Spectre	THU
1210z	21/03[425 879 6 45432 89674 56423 13219 67563 88821 879 6 00000] 1216z QSA3 QRM5 QRN4 QSB3	tiNG	THU
14505kHz1010z	06/03[729 431 5 42597 67857 67758 08613 81375 431 5 00000(s)] 1015z Fair QRN3 QSB3	Spectre	WED
1010z	13/03[729 431 5 42597 67857 67758 08613 81375 431 5 00000(s)] 1015z Fair CARRIERQRM4 QSB2	Spectre	WED

14580kHz0900z	04/03[872 946 5 96721 36793 53038 76342 78386 946 5 00000]0905z S7	M8	MON
0900z	25/03[872 961 5 78563 45213 89065.stopped, carrier 0908z 872 repeated..then stopped 0910z 961]0909z S5	M8, GD	MON

April2013:

6410kHz1000z	16/04[893 270 5 11171 64385 82707 06123 34694 270 5 00000(s)] 1005z Weak XJTQRM3 QSB3	Spectre	TUE
1000z	23/04[893 270 5 11171 64385 82707 06123 34694 270 5 00000(s)] 1005z Weak QRN3 QSB3	Spectre	TUE
6464kHz1500z	23/04[537 940 6 55581 20044 52985 53006 41879 84648.....]	GD, JkC	TUE
6930kHz0815z	16/04[374 820 5 65906 88452 17301 88554 36717]	GD	TUE
7242kHz1510z	23/04[537 940 6 55581 20044 52985 53006 41879 84648 940 6 00000(s)] 1515z Weak QRM3 QSB3	JkC	TUE
7340kHz1010z	16/04[893 270 5 11171 64385 82707 06123 34694 270 5 00000(s)] 1015z Fair QRN3 QSB3	Spectre	TUE
1010z	23/04[893 270 5 11171 64385 82707 06123 34694 270 5 00000(s)] 1015z Fair QRN3 QSB3	Spectre	TUE
7516kHz 0603z	05/04[934 00000] 0604z (i/p) Strong	Hans	FRI
7605kHz0820z	03/04[471 263 5 16744 96234 48310 98273 95331] 0825z Weak	Hans	WED
7795kHz0600z	05/04[196 204 5 06123 22536 888280 84116 53718 204 5 00000] Very strong signal, moderate noise	FR, Hans	FRI
0700z	12/04[196 204 5 06123 22536 88280 84116 53718 204 5 00000(s)] 0705z Fair QRN3 QSB3	Spectre	FRI
0600z	19/04[196 238 5 33796 13577 74526 46647 79302 238 5 00000] Very strong signal, weak noise	FR	FRI
8270kHz0840z	08/04[371.....]very weak	M8	MON
0840z	22/04[371 960 5 24035 48115 24151 51802 23807 960 5 00000]0845z S1	M8	MON
8520kHz1210z	06/04[254 973 6 16945 80744 86200 84706 42227 61736 973 6 00000] Medium signal, strong noise	FR, Spectre	SAT
	Message is a variation of the March transmission, only difference between the two is the 2nd group. In March it was 72744.		
8529kHz 0620z	05/04[934 00000] 0624z Strong	Hans	FRI
8650kHz0930z	18/04[314 very weak]0935z	M8	THU
8695kHz0610z	05/04[196 204 5 06123 22536 888280 84116 53718 204 5 00000] Very strong signal, moderate noise	FR, Hans	FRI
0610z	12/04[196 204 5 06123 22536 88280 84116 53718 204 5 00000(s)] 0715z Fair QRN3 QSB3	Spectre	FRI
0610z	19/04[196 238 5 33796 13577 74526 46647 79302 238 5 00000] Very strong signal, weak/moderate noise	FR	FRI
9078kHz 0630z	05/04[934 00000] 0634z Strong	Hans	FRI
9145kHz1200z	08/04[831 TOO WEAK TO COPY]	M8	MON
1200z	15/04 [831 542 6 15009 34140 78386 91497 82763 24162 542 6 00000(s)] 1205z Weak QRN3 QSB3	Spectre	MON
1200z	22/04[831 542 6 15009 34140 78386 91497 82963 24162 542 6 00000]1205z S2	M8, Spectre	MON
1200z	29/04[831 00000] 1204z Fair QRM2 QSB3	JkC	MON
9220kHz0830z	08/04[371.....]very weak	M8	MON
0830z	22/04[371 960 5 24035 48115 24151 51802 23807 960 5 00000]0835z S1	M8	MON
9249kHz0850z	22/04[328 00000]	FN	MON
9255kHz0830z	03/04[471 263 5 16744 96234 48310 98273 95331] 0835z Fair	Hans	WED
9457kHz 0640z	05/04[934 00000] 0644z Strong	Hans	FRI
10148kHz 0650z	05/04[934 00000] 0654z Strong	Hans	FRI
10350kHz1200z	06/04[254 973 6 16945 80744 86200 84706 42227 61736 973 6 00000] Strong signal, moderate/strong noise	FR, Spectre	SAT
	Message is a variation of the March transmission, only difference between the two is the 2nd group. In March it was 72744.		
11460kHz1210z	08/04[831 924 5 18264 57468 09128 45683 92287 924 5 00000]1215z S2	M8	MON
1210z	15/04[831 542 6 15009 34140 78386 91497 82763 24162 542 6 00000(s)] 1215z Weak QRN3 QSB3	Spectre	MON
1210z	22/04[831 542 6 15009 34140 78386 91497 82963 24162 542 6 00000]1215z S9	M8, Spectre	MON
11635kHz0900z	16/04[352 940 6 20336 17301 36717 75965 31670 52985]	GD	TUE
0800z	23/04[352 940 6 20336 17301 36717 75965 31670 52985 940 6 0 0 0 0 0 0 QSA 4 QSB 2	JO	TUE
12140kHz 0930z	05/04[516 943 7 60386 03009 81413 94073 83531 94063 05371] 0935z V.strong	Hans, M8	FRI
0930z	19/04[516 437 8 96111 10544 98003 68909 45279 43828 55581 20044 437 8 00000]0935z S9+20	M8	FRI
0930z	26/04[516 437 8 96111 10544 48003 68909 45279 43828 55581 20044 437 8 00000]0936z S9+20	M8, DanDe	FRI
12415kHz1200z	18/04[425 906 7 46062 68672 97478 39685 30485 96632 52537 906 7 00000(s)] 1206z Fair QRN3 QSB3	Spectre, M8	THU
1200z	25/04[425 906 7 46062 68672 97478 39685 30485 96632 52537 906 7 00000(s)] 1206z Fair QRN3 QSB3	Spectre	THU
12952kHz0900z	18/04[167 428 5 46523 12196 89856 45342 89881 428 5 00000]0905z S9	M8	THU
13165kHz0910z	08/04[872 935 6 45279 43828 55581 20044 70552 47665 935 6 00000]0915z S5	M8	MON
0910z	22/04[872 905 6 40613 77249 40678 17976 21816 42997 905 6 00000]0915z S9+10	M8, DanDe	MON
13365kHz1000z	03/04[729 415 6 29874 69114 66601 50509 42834 34654 415 6 00000(s)] 1005z Fair QRN3 QSB3	Spectre	WED
1000z	10/04[729 415 6 29874 69114 66601 50509 42834 34654 415 6 00000(s)] 1005z Weak QRN3 QSB3	Spectre	WED
1000z	17/04[729 460 5 66472 31421 49876 09675 24166 460 5 00000(s)] 1005z Fair QRN3 QSB3	Spectre	WED
1000z	24/04[729 460 5 66472 31421 49876 09675 24166 460 5 00000(s)] 1005z Fair QRN3 QSB3	Spectre	WED

13375kHz0940z	05/04[516 943 7 60386 03009 81413 94073 83531 94063 05371 943 7 00000]0945z S9+10	M8	FRI
13515kHz0940z	19/04[516 437 8 96111 10544 98003 68909 45279 43828 55581 20044437 8 00000]0945z S9+40	M8	FRI
0940z	26/04[516 437 8 96111 10544 48003 68909 45279 43828 55581 20044 437 8 00000]0946z S9+30	M8	FRI
13565kHz0910z	18/04[167 428 5 46523 12196 89856 45342 89881 428 5 00000]0915z S9+10	M8	THU
14212kHz1210z	18/04[425 906 7 46062 68672 97478 39685 30485 96632 52537 906 7 00000(s)] 1216z Fair QRN3 QSB3	Spectre, M8	THU
1210z	25/04[425 906 7 46062 68672 97478 39685 30485 96632 52537 906 7 00000(s)] 1216z Fair QRN3 QSB3	Spectre	THU
14505kHz1010z	03/04[729 415 6 29874 69114 66601 50509 42834 34654 415 6 00000(s)] 1015z Fair CARRIERQRM3 QSB3	Spectre	WED
1010z	10/04[729 415 6 29874 69114 66601 50509 42834 34654 415 6 00000(s)] 1015z Weak QRN3 QSB3	Spectre	WED
1010z	17/04[729 460 5 66472 31421 49876 09675 24166 460 5 00000(s)] 1005z Fair QRN3 QSB3	Spectre	WED
1010z	24/04[729 460 5 66472 31421 49876 09675 24166 460 5 00000(s)] 1005z Fair CARRIERQRM3 QSB3	Spectre	WED
14580kHz0900z	08/04[872 935 6 45279 43828 55581 20044 70552 47665 935 6 00000]0905z S9	M8, FN	MON
0900z	22/04[872 905 6 40613 77249 40678 17976 21816 42997 905 6 00000]0905z S9	M8, DanDe	MON

PoSW's analysis and logs:

Many seasonal changes of frequency noted in March, as expected.

Saturday 1600 or 1605 UTC Weekly Schedule:-
2-Mar-13:- 1605 UTC, 7,472 kHz, "764 764 764 00000". Peaking S9, close to a weak broadcast station. Carrier noted on 7,472 just before 1600z.

9-Mar-13:- 1605 UTC, 7,472 kHz, "764 764 764 00000", S9+, very strong signal this afternoon.

16-Mar-13:- 1600 UTC, 8,173 kHz, "on the hour" start, "764 764 764 00000", S8 to S9.
A search for pre warm-up routine when nothing observed on 7,472 found a carrier with tone on 8,173 at 1550z and a single Russian "764" after 1551z.

23-Mar-13:- 1605 UTC, 7,472 kHz, "764 764 764 00000".

30 Mar-13:- no sign of this schedule at either 1600 or 1605 UTC; this is the fifth Saturday
in this month of March and I think it has already been established that when this is the case Ivan can't be asked to put in an appearance since his terms of employment only require him to report for duty on four Saturdays!

6-Apr-13:- 1600 UTC, 8,173 kHz. And a "full message" today, something of a rarity these days. Call "764", DK/GC "958 958 32 32", S9 signal, ended just before 1611 UTC.

13-Apr-13:- 1600 UTC, 8,173 kHz, "764" and "958 958 32 32" again.

20-Apr-13:- 1600 UTC, 8,177 kHz, 4 kHz higher then, still "764" and "958 958 32 32".

27-Apr-13:- 1600 UTC, 8,183 kHz, still moving up in frequency, and still "764" and "958 958 32 32". So it'll be on again this coming Wednesday, then.

Wednesday 2000 or 2005 UTC Repeat of Saturday 1600 or 1605 UTC "Full Message":-
Recalled that if the Saturday 1600/1605 UTC sends a full message there is a Wednesday repeat; only recalled this to mind too late in the evening on Wednesday 10-April but remembered to search for it on the following Wednesday:-
17-Apr-13:- 2010 UTC, 4,542 kHz, transmission in progress, 5F groups same as heard on Saturday, ended just before 2016z with "958 958 32 32 00000". Must have started at 2005 UTC, 9.05 PM BST.

24-Apr-13:- 2000 UTC, 5,422 kHz, "on the hour" start up, "764" and "958 958 32 32", S9 signal, no problem to find.

Saturday 1930 or 1935 UTC Weekly Schedule:-
9-Mar-13:- 1935 UTC, 4,772 kHz, "426 426 426 00000", S9 with rapid QSB.

16-Mar-13:- 1930 UTC, 5,823 kHz, not found until a couple of minutes into the transmission, "426 426 426 00000", S9 on a clear frequency.

6-Apr-13:- 1935 UTC, 4,772 kHz, "426 426 426 00000", S7 to S8.

20-Apr-13:- 1935 UTC, 4,772 kHz, "426 426 426 00000", peaking S9.

First + Third Saturdays in the Month 2000 + 2100 UTC Schedule:-
16-Mar-13:- 2000 UTC, 4,967 kHz, "319 319 319 00000", S9 with deep QSB, a weak "XJT" churning away underneath.
2100 UTC, 4,020 kHz, second sending.

6-Apr-13:- This schedule appears to have shifted by one hour in April:-
2000 UTC, 4,019 kHz, "319 319 319 00000". Expected this frequency to be active at 2100 UTC with 4,967 on at 2000 UTC. Nothing found on this frequency at 2000 UTC but a quick tune around found it on 4,019.

20-Apr-13:- 1900 UTC, 4,977 kHz, "319 319 319 00000". S9 with QSB.
2000 UTC, 4,019 kHz, second sending. Still on at 8 PM and 9 PM in the summer months, and also runs at the same time as the "857" schedule, below.

First + Third Saturdays in the Month 2030 UTC + 2130 UTC Schedule - but did a spectacular one and a half hour shift in April:-
16-Mar-13:- 2030 UTC, 6,885 kHz, "857 857 857 00000", S9+, very strong.
2130 UTC, 5,912 kHz, second sending.

6-Apr-13:- 1900 UTC, 6,874 kHz, one and a half hours earlier UTC but only half an hour earlier local time in the UK because the clocks have done the "spring forward" thing for summertime so is on at 8 PM instead of 8.30 PM in the winter months. S9+, very strong signal, "857 857 857 00000".

2000 UTC, 5,912 kHz, second sending, also S9+.

20-Apr-13:- 1900 UTC, 6,879 kHz, "857 857 857 00000", S9 signal.
2000 UTC, 5,919 kHz, second sending, S9 with QSB.

Monday + Thursday 1900 or 1905 UTC Schedule:-
4-Mar-13, Monday:- 1905 UTC, 5,127 kHz, "349 349 349 00000". S9+, very strong signal.
Seasonal change of frequency, 1900z should be 5,784 kHz.

7-Mar-13, Thursday:- 1900 UTC, 5,784 kHz – as expected - "349 349 349 00000", S9+.

11-Mar-13, Monday:- 1900 UTC, 5,784 kHz, "349 349 349 00000".

14-Mar-13, Thursday:- 1905 UTC, 5,127 kHz, "349 349 349 00000", S9 with QSB.

18-Mar-13, Monday:- 1905 UTC, 5,127 kHz, "349 349 349 00000".

21-Mar-13, Thursday:- 1905 UTC, 5,127 kHz, "349 349 349 00000", peaking S9.

25-Mar-13, Monday:- 1905 UTC, 5,127 kHz, "349 349 349 00000". S9 signal but had background hum suggesting as though an earth connection was faulty somewhere in the early audio stages of the TX.

28-Mar-13, Thursday:- 1905 UTC, 5,127 kHz, "349 349 349 00000".

1-Apr-13, Monday:- 1905 UTC, 5,127 kHz, "349 349 349 00000", stays on UTC with the start of British Summer Time so now on one hour later.

4-Apr-13, Thursday:- 1900 UTC, 5,784 kHz, "349 349 349 00000", S9.

8-Apr-13, Monday:- 1900 UTC, 5,784 kHz, "349 349 349 00000".

15-Apr-13, Monday:- 1900 UTC, 5,784 kHz, "349 349 349 00000".

18-Apr-13, Thursday:- 1900 UTC, 5,784 kHz, "349 349 349 00000", S9+, very strong.

25-Apr-13, Thursday:- 1905 UTC, 5,127 kHz, "349 349 349 00000".

Second + Fourth Mondays in the Month 1915 + 2015 UTC Schedule - moved by one hour in April so still showed up at 7.15 and 8.15 PM UK time:-
11-Mar-13:- 1915 UTC, 11,030 kHz, "865 865 865 00000", S8 to S9 with deep QSB.
2015 UTC, 9,140 kHz, second sending, S7 to S8.

25-Mar-13:- 1915 UTC, 11,030 kHz and 2015 UTC, 9,140 kHz, "865 865 865 00000".

8-Apr-13:- 1815 UTC, 13,440 kHz, "116 116 116 00000". S8 to S9.
1915 UTC, 11,105 kHz, second sending.

22-Apr-13:- 1815 UTC, 13,440 kHz, calling "116" for a full message. DK/GC "257 257 143 143", longer than your average message, ended 1843 UTC.
1915 UTC, 11,105 kHz, second sending, both transmissions good signals.

23-Apr-13:- 1815 UTC, 13,440 kHz and 1915 UTC, 11,105 kHz, next day repeats of "116"
and "257 257 143 143".

Thanks Peter!

S11a[III]

S11a log March/April

5815kHz	1020z	02/03 [221/00] Fair		RNGB	SAT
	1020z	09/03 [221/00] Weak		RNGB	SAT
	1020z	13/03 [227/31 06451 84743 29641 96492 22920…..39368] Very weak	Specter,	RNGB	WED
	1020z	03/04 [221/00] 1023z Weak		Hans	WED
	1020z	06/04 [221/00]		Fox	SAT
7317kHz	0915z	01/03 [484/00] Good		RNGB	FRI
	0915z	05/03 [484/00]		RNGB	TUE
	0915z	08/03 [484/00]		RNGB	FRI
	0915z	12/03 [483/31 37624 48883 95768 15176 91634…..75376]		RNGB	TUE
	0915z	22/03 [484/00] Good		RNGB	FRI
	0915z	26/03 [484/00] Good		RNGB	TUE
	0915z	29/03 [485/37 34931 52711 30677 63500 91788…..88859] Weak		RNGB	FRI
	0915z	02/04 [484/00]		RNGB	TUE
	0915z	09/04 [484/00] Fair		RNGB	TUE
	0915z	16/04 [484/00]		RNGB	TUE
	0915z	26/04 [484/00]		Malc	FRI
9960kHz	1020z	01/03 [426/00] Good		RNGB	FRI
	1020z	05/03 [426/00] Good		RNGB	TUE
	1020z	08/03 [426/00]		RNGB	FRI
	1020z	12/03 [426/00]		RNGB	TUE
	1020z	15/03 [422/33 27209 62139 83977 04523 45615 ... 38547] 1030z Fair		Spectre	FRI
	1020z	19/03 [426/37 79160 81051 20381 …..01140] Konec 1035z (faulty delivery)		RNGB	TUE
	1020z	26/03 [426/00]		RNGB	TUE

1020z	29/03 [426/00]	RNGB	FRI
1020z	05/04 [426/00] Konec 1023z S3	Malc	FRI
1020z	19/04 [426/00]	Malc	FRI
1020z	26/04 [426/00] 1023z Strong	Hans	FRI
16112kHz 1015z	04/03 [475/00] 100Hz high on frequency	RNGB, Malc	MON
1015z	07/03 [475/00] 1018z Fair QRN3 QSB3	Spectre	THU
1015z	11/03 [475/00]	RNGB	MON
1015z	14/03 [471/37 18249 32312 53195 95165 21690.....88623] 1026z Fair	Spectre	THU
1015z	25/03 [475/37 53467 53277 62377 91760…..49091] 130hz high on freq.	RNGB	MON
1015z	01/04 [475/00]	RNGB	MON
1015z	08/04 [475/38 V 53144 07400 ... 60632] 1026z Strong	Hans	MON
1015z	18/04 [475/00] Konec 1018z	Malc	THU
1015z	29/04 [475/00] Good	RNGB	MON

S11a 16112kHz 1015z 08/04 Transcript:

475/38
53155 07400 05011 24884 20840 89819 72105 88868 71534 64243
07267 27150 61367 22785 91809 97931 29029 15738 61707 61884
69777 05808 15073 62767 17709 35500 92879 27930 33104 82323
56179 36230 32335 21263 38468 13145 73497 60632
Courtesy Spectre

S21
March2013:

4454kHz1842z	07/03 Signal strong enough to confirm but noise too strong to copy	FR	THU
1842z	19/03[454 454 ... ??? ... 000 (s)] 1853z	CH10	TUE
1842z	26/03[454 R3m 231 30 92524 … 82183 231 30 00000] 1852z QSA4 QRM5 QRN4 QSB3	tiNG	TUE
1842z	28/03 [Heard but too weak to decode] 1852z	CH10	THU
4854kHz1842z	07/03[.....59133 ... 18936 317 30 000]1852z S9	MP	THU

.....59133 24590 28665
39376 42651 72990 08224 15924
20115 27057 32871 72601 88725
88845 79289 55895 25766 24364
61749 92203 10750 36794 72259
54045 91890 29868 63009 18936
317 30 000 *Courtesy MP*

1842z	28/03 [Heard but too weak to decode] 1852z	CH10	THU

April2013:

4854kHz1842z	02/04[454 231 30 92524 36375 … 49860 82183 231 30 000] 1852z QSA4 QRM5 QRN4 QSB4	tiNG, CH10	TUE
4854kHz1842z	04/04[454 231 30 92524 ... 82123 000] Very strong signal, weak noise, interference	FR, HJH	THU

454 231 30
92524 36375 64209 88899 41067
70153 54178 99633 46058 80600
14853 56158 10089 51750 26409
07892 08961 14471 37258 63492
49428 63608 40725 74393 80015
21284 99796 89886 49860 82183
000 *Courtesy FR*

4854kHz1842z	09/04[454 231 30 92524 ... 82183 231 30 000] 1852z -Rpts M45 msg sent 1802z- Weak QRN3 QSB3	Spectre	TUE
1842z	11/04[454 231 30 92524 ... 82183 231 30 000] 1852z Weak QRN3 QSB3	Spectre	THU
4454kHz1842z	16/04[454 867 33 55476 ... 25937 867 33 0 0 0] 1851z Fair QRM2 QSB2	JkC, tiNG	TUE
4854kHz1842z	16/04[454 867 33 55476 ... 25937 867 33 0 0 0] 1851z Fair QRM2 QSB2	JkC	TUE

S21 4454/4854kHz 1842z 16/04

454 867 33
55476 28719 38229 84070 11368
89612 61340 45012 61326 38658
97989 14807 72111 08490 54818
21593 22006 45602 12009 57879
27576 12608 41387 42681 02914
75940 48498 87882 82208 09468
13630 61609 25937
867 33 0 0 0 *Courtesy JkC*

4570kHz1940z	18/04[477 148 32 67452 ... 41757 = = 148 32 000] 2001z QSA4 [+M01b] Vienna GT	tiNG	THU

Description: S21 came up at 1940z with 477 repeated 2 minutes. Then the signal went off. At 1943z M01b came up starting its complete transmission. The message was the same as at 1832z on 4605,0 kHz this evening.

4454kHz1842z	23/04[454 867 33 = 55476 ... 25937 = 867 33 000] 1819z Fair QRM3 QSB3	JkC, HJH	TUE
4854kHz1842z	23/04[454 867 33 = 55476 ... 25937 = 867 33 000] 1819z Fair QRM3 QSB3	JkC	TUE

Repeat of M45 4955kHz 1802z 23/04

4454kHz1842z	25/04[454 867 33 55476 ... 25937 867 33 000] 1850z Fair QRM3 QSB3	JkC	THU
4854kHz1842z	25/04[454 867 33 55476 ... 25937 867 33 000] 1850z Weak QRM3 QSB3	JkC	THU

V02a Not surprisingly, no reports.

V07

V07 Observations, May of 2011 to April of 2013
Station transmits each Sunday morning at the listed time.
Transmissions are on the listed frequencies and in USB mode.

Time UTC	January Call 661	February Call 329	March Call 883	April Call 845	May Call 511	June Call ???	July Call 512	August Call 845	September Call 661	October Call 883	November Call 883	December Call 661
0100	16037	18368	18074							18074	18074	16037
0120	14637	16268	15874							15874	15874	14637
0140	12137	13968	14374							14374	14374	12137
0300				14823					16037			
0320				13423					14637			
0340				11523					12137			
0500					?			14823				
0520					12182			13423				
0540					?			11523				
0700						?	13582					
0720						11182	12182					
0740						?	10282					

Thanks 'T'

V13 No reports

V21

V21 Babbler reports from Anon…….Thanks!

V21 6529kHz 1400z 2/3 [20, 30, 20, Unintelligible, 20 END]
V21 6529kHz 1400z 3/3 [30, 30, 30, 30, 20, 30, 30, 30, 30, 30, 40, 30, 30, 30, 30, 30, 30, 30, 30 END] TX Lasted 10 minutes

V21 6529kHz 1300z 10/3 Present but too weak to copy.

V21 6529kHz 1300z 11/3 Present but too weak to copy.

V21 6529kHz 1300z 12/3 In progress at 1257z [50, 50, 50, 20, 50, 50, 60, 50, 50, 50, 50, 50, 20 END] TX Lasted 11 minutes

V21 6529kHz 1300z 13/3 [20, 40, 30, 30, 30, 30, 30, 20, 30, 20, 40, 40, 40. END]

V21 6529kHz 1300z 14/3 [30, 40, 40, 40, 30, 30, 30, 40, 30, 40, 40, 30, 10. END]
V21 5637kHz 1305z 14/3 Found in Progress at 1305z continued until 1320z [43, (23, 32, 35, 45), (10, 18, 22, 25, 32, 36, 47, 56, 66), (unintelligible) (28, 45, 56, Unintelligible). (27, 31, 35, 38, Too weak to copy.)]

V21 5637kHz 1330z 15/3 Came up in progress at 48, 50, 61 then too weak to copy. only 90 and 45 heard after that.
V21 6625kHz 1245z 15/3 [1, 1, 1, 2, 3, 4, 5, 6, 7]
V21 6529kHz 1300z 15/3 [30, 50, 50, 50, 10. END] TX Lasted 2 minutes 30 seconds

V21 6529kHz 1300z 16/3 [50, 20, 30, 50, 40, 50, 50, 50, 50, 50, 50, 33. END] TX Lasted 10 minutes.
V21 5637kHz 1300z 16/3 In progress at 1310z Mostly uninitelligible but heard counting direct to 20. Also pauses on 6, 26 and 32.

V21 6529kHz 1300z 17/3 TX Lasted 4 minutes. [10, 20, Start at 11 count to 40, 10, 40, 20 END]

V21 6625kHz 1130z 18/3 [1,2,3,4,1. Count to 4, Count to 4, Count to 4, Count to 4. END]
V21 6529kHz 1300z 18/3 [50, 50, 50, 50, 50, 50, 40, 50, 43] Abrupt end. TX lasted 7 minutes.
V21 6529kHz 1315z 18/3 Found in progress, TX continued until 1330z Mostly unintelligible but two counts pausing on the following were heard [22, 32] [22 32, 40, 48]

V21 6529kHz 1258z 19/3 [50, 50, 50, 50, 40, 50, 50, 50, 50, 50, 50, 50, 10 END] TX lasted 10 minutes.
V21 5637kHz 1318z 19/3 Mostly inaudible count pausing on 22,26 40, 46. Count pausing on 15 Count pausing on 15, 23, 32, 42. Count pausing on 22, 32, Count pausing on 22, 32 40, 45, 51. Signal becomes stronger at 1341z Count to 51 pausing on 15, 25, 33, 42.

V21 6625kHz 1120z 20/3 Slow delivery. [2, 10, 10, 10, 10, 10, 10, 10, 9, 2, 6, 10, 10, 8, 9, 10, 10 END] TX lasted 4 minutes.
V21 6529kHz 1120z 20/3 [50, 50, 50, 50, 50, 50, 50, 50, 50, 50, 30, 50, 30 END] TX lasted 10 minutes.

V21 6625kHz 1210z 21/3 [10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10 END] TX lasted 7 minutes.
V21 5637kHz 1310z 21/3 In progress, [Count to 10, Count to 12, Count to 14]. Pauses heard on the following numbers during various counts. 16, 32, 4, 20, 22, 36, 23, 33, 35, 16, 25
V21 6625kHz 1130z 21/3 [5, 5, 5, 5, 6 END]

V21 6529kHz 1255z 29/3 [70, 40, 60, 50, 70, 70, 60, 90, 90, 40. END] TX Lasted 11 minutes.
V21 5637kHz 1310z 29/3 In progress, too weak to copy, ended at 1320z.

V21 6625kHz 1120z 30/3 SS/OM [6, 7, Unintelligible, 10, 5 10, 10, 7, Unintelligible, 10, 10, 9, 9, 9, 9, 9, 4, 4, 3, 3, 3, 9, 3, 2, 2, 9, 5 END] SAT

V21 6529kHz 1255z 30/3 [40, 20, 30, 30, 20, 20, 40, 10, 20, 40, 30, 30, 30, 30, 30, 50, 20, 30, 30, 20, 20, 20, (Too weak to copy for 6 minutes), 20, 20, 30, 40, 40, 40, 40 END] TX lasted 28 minutes

V21 6625kHz 1330z 30/3 SS/YL reading strings of numbers. TX Lasted 35 mins
Mostly weak but the following strings were heard.

0426 ???
0426
0427 20 341 ???
0427 ???
0423 400 ???
0427 30 331 23
0427 30 ???
0427 30 197
0427 130 ???
00 0423 740 428 28 10 ???
0427 740
0423 300 ???
0427 730 130 0026
0447 330 ??? 26
???? 330 ??? 26
0433 740 ???? 38 0026
0421 460 ???
0427 403 420 400 1100 1300 ??
0433 4 400 30 1100
0426 324 700 425 441 ???
0425 730 ?? 41
0426 711 221 42

V21 6625kHz 1130z 31/3 SS/OM Counting [10, 10, 10, 10, 10, 17, 13 END]

V21 6529kHz 1305z 31/3 [30, 90, 30, 30, 30, 70, 40, 50, 40, 30 END] TX Lasted 6 minutes

V21 5637kHz 1311z 31/3 In progress, too weak to copy.

V21 6529kHz 1300z 2/4 [40, 40, 17 END] TX Lasted 2 minutes

V21 6529kHz 1305z 3/4 2 counts from 10 to 20 heard then Count to 20 TX continued but too much crashing from thunderstorms to copy.

V21 6625kHz 1130z 3/4 [5, 10, 10, 10, 10, 5 END]

V21 6625kHz 1115z 4/4 [80, 70, 70, 30, 40, 40, Inaudible for 1 minute, 30, 20 END] TX Lasted 9 minutes.

V21 6625kHz 1130z [3, 3, 4, 1, 4, 1, 3, 3, 2, 2, 2, 1, 3 END]

V21 6529kHz 1300z 5/4 [20, 20, 10, 10, 30, 20, 10, 10, 20, 20, 10 END] Very Weak FRI

V21 5637kHz 1300z 6/4 TX Lasted 14 minutes [Counts to 59 then says 11 with no pause, 70, 50, 40, 70, 50, 60, 50, 40, 60, 40, 20, 40, 20, 40, 80, 30, 50, 10 END]

V21 5637kHz 1300z 7/4 [Pause on 28 and 32 heard but otherwise too weak to copy.]

V21 6625kHz 1245z 9/4 SS/YL [Start at 2 count to 5, 10, 10, 8, 10, 10, 10 Start at 20 count to 25 then without pause continues with 1 to 9. 20, 15, 20, 4, 48, END.] TX lasted 4 minutes

V21 6529kHz 1300z 9/4 TX Lasted 6 minutes. [Count to 26 continuing to 40, 60, 70, 40, 50, 60, 50 END]

V21 6625 1130z 10/4 SS/YL [Start at 7 count to 31, start at 6 counting to 8, start at 1 count to 14, Start at 1 count to 6, Start at 11 count to 21 END.]

V21 6529kHz 1300z 10/4 60, unintelligible for several minutes, 70, 28 Abrupt end.

V21 6529kHz 1300z 11/4 70 then too weak to copy. TX lasted at least 10 minutes.

V21 6529kHz 1300z 12/4 [10, 10, 20, 10, 20, 20 END]

V22 No reports

V24

V24 is still active with its "new", deeper sounding, voice (started last year).

It appears to have a very slightly reduced number of transmissions each month.
I have been looking to see if it has shifted some traffic to new frequencies but so far have not located any, they still appear to be using the same four frequencies they down-sized to last year (4900, 5115, 6215, and 6310 kHz).

The 5115 kHz frequency is often slightly QRMed by Chinese OTHR. However, the signal is generally so strong that the QRM is hardly noticeable. The 4900 kHz frequency can be QRMed (in the western US) by the USCG transmissions on 4905 kHz, in California a good filter is required.

V24 in the past has habitually, most of the time, started on exactly the right time. XX00 and XX30 almost to the second. Over the last year I have noticed a tendency to start the music early and the message starts at about XX00 and XX30.

It does not do this all the time, but frequently enough to be noticed.

M94 is still, surprisingly, on the air with 4 transmissions, 2 messages repeated for 2 days, each month. The only ID observed this month was 935. I believe I have not logged anything but 935 for several months.

The new V24 / M94 schedule can be found as a JPG at the same URL as it has been in the past:

http://token_radio.home.mchsi.com/V24_M94_latest_sched.JPG

It can be found as a Word doc at:

http://token_radio.home.mchsi.com/V24_M94_sched_1Q_2013.doc

That is all for V24 and M94 as seen here this past month. [M94 in Morse section].

T! [Thanks T!]

The upto date schedule:

V24 and M94 schedule, first quarter, 2013.

Day	1240	1300	1330	1400	1430	1500	1530	1600	1630
1		5115				5115	4900 ?	6215	
2		5115				6215	5115 **	6215	
3		5115	6310			6215	5115 **	6215 *	
4		5115	6310			4900		6215 *	
5				5115	6310	4900	6310 *		6310
6		6310		5115	6310		6310 *		6310
7		6310							
8									
9			6310						
10			6310	5115	5115				
11				5115	5115				
12									5115
13							6310 *		5115
14		6310 **					6310 *		
15		6310 **			6310		4900		
16			6310 ?		6310	4900	4900		
17						4900	5115	6215 *	
18		5115	6310			6215	5115	6310	
19		5115	6310			6215		6215	
20			6310 ?	5115	5115	5115		6215 *	6310 ?
21				5115	5115	5115	6310 *		
22		6310 **					6310 *		
23		6310 **	6310						
24		5115	6310						
25		5115							
26				5115			6310 *		
27		6310		5115			6310 *		5115 ?
28		6310				5115 !!	6310 !!		
29						5115 !!	6310 !!		
30						5115 !!	6310 !!		
31						5115 !!	6310 !!		

M94 is still active, but only 2 messages, 4 transmissions, per month. All messages are addressed to “935”.

M94 is indicated on the chart with light blue background: 5115

Notes and special conditions:
!! = only seen when this is the last day of the month only
? = only seen one time, possible error transmission
* = seen only on alternate months, odd months
** = seen only on alternate months, even months

Logs of V24 for March, 2013, from the Mojave Desert, California, USA:

V24 5115kHz 1300z 01/03[-----] 1308z good Token FRI
V24 5115kHz 1500z 01/03 [-----] 1510z good Token FRI
V24 4900kHz 1530z 01/03 [-----] 1542z fair QRM2 QSA3 Token FRI
This is likely an error message, 6310 kHz was anticipated in this time slot

V24 5115kHz 1300z 02/03 [-----] 1308z good Token SAT
V24 6215kHz 1500z 02/03 [-----] 1511z good Token SAT
V24 5115kHz 1530z 02/03 [-----] 1540z good Token SAT

V24 5115kHz 1300z 03/03 [-----] 1310z good	Token	SUN
V24 6310kHz 1330z 03/03 [-----] 1343z good	Token	SUN
V24 6215kHz 1500z 03/03 [-----] 1511z good	Token	SUN
V24 6215kHz 1600z 03/03 [-----] 1513z good	Token	SUN
V24 5115kHz 1300z 04/03 [-----] 1310z good	Token	MON
V24 6310kHz 1330z 04/03 [-----] 1343z good	Token	MON
V24 4900kHz 1500z 04/03 [-----] 1513z QRM2 QSA4	Token	MON
V24 6215kHz 1600z 04/03 [-----] 1513z good	Token	MON
V24 5115kHz 1400z 05/03 [-----] 1409z good	Token	TUE
V24 6310kHz 1430z 05/03 [-----] 1412z good	Token	TUE
V24 4900kHz 1500z 05/03 [-----] 1513z good	Token	TUE
V24 6310kHz 1530z 05/03 [-----] 1543z good	Token	TUE
V24 6310kHz 1630z 05/03 [-----] 1644z fair	Token	TUE
V24 6310kHz 1300z 06/03 [-----] 1307z good	Token	WED
V24 5115kHz 1400z 06/03 [-----] 1409z good	Token	WED
V24 6310kHz 1430z 06/03 [-----] 1412z good	Token	WED
V24 6310kHz 1530z 06/03 [-----] 1543z good	Token	WED
V24 6310kHz 1630z 06/03 [-----] 1644z QRM1 QSA3	Token	WED
V24 6310kHz 1300z 07/03 [-----] 1307z good	Token	THU
V24 6310kHz 1330z 09/03 [-----] 1343z good	Token	SAT
V24 6310kHz 1330z 10/03 [-----] 1343z good	Token	SUN
V24 5115kHz 1430z 10/03 [-----] 1437z good	Token	SUN
V24 5115kHz 1430z 11/03 [-----] 1437z good	Token	MON
V24 6310kHz 1530z 13/03 [-----] 1542z good	Token	WED
V24 6310kHz 1530z 14/03 [-----] 1542z good	Token	THU
V24 6310kHz 1430z 15/03 [-----] 1443z good	Token	FRI
V24 4900kHz 1530z 15/03 [-----] 1544z good	Token	FRI
V24 6310kHz 1430z 16/03 [-----] 1443z good	Token	SAT
V24 4900kHz 1500z 16/03 [-----] 1508z good	Token	SAT
V24 4900kHz 1530z 16/03 [-----] 1544z good	Token	SAT
V24 4900kHz 1500z 17/03 [-----] 1508z good	Token	SUN
V24 5115kHz 1514z 17/03 [-----] 1528z good	Token	SUN
Believe error in transmission time, this is probably supposed to be 1530z start time		
V24 5115kHz 1300z 18/03 [-----] 1311z good	Token	MON
V24 6310kHz 1330z 18/03 [-----] 1338z good	Token	MON
V24 6215kHz 1500z 18/03 [-----] 1509z good	Token	MON
V24 5115kHz 1300z 19/03 [-----] 1311z good	Token	TUE
V24 6310kHz 1330z 19/03 [-----] 1338z good	Token	TUE
V24 6215kHz 1500z 19/03 [-----] 1509z good	Token	TUE
V24 6215kHz 1600z 19/03 [-----] 1610z good	Token	TUE
V24 5115kHz 1400z 20/03 [-----] 1411z good	Token	WED
V24 5115kHz 1430z 20/03 [-----] 1437z good	Token	WED
V24 5115kHz 1500z 20/03 [-----] 1514z good	Token	WED
V24 6215kHz 1600z 20/03 [-----] 1610z good	Token	WED
V24 5115kHz 1400z 21/03 [-----] 1411z good	Token	THU
V24 5115kHz 1430z 21/03 [-----] 1437z good	Token	THU
V24 5115kHz 1500z 21/03 [-----] 1514z good	Token	THU
V24 6310kHz 1530z 21/03 [-----] 1542z good	Token	THU
V24 6310kHz 1530z 22/03 [-----] 1542z good	Token	FRI
V24 6310kHz 1330z 23/03 [-----] 1339z good	Token	SAT
V24 5115kHz 1300z 24/03 [-----] 1311z good	Token	SUN
V24 6310kHz 1330z 24/03 [-----] 1341z good	Token	SUN
V24 5115kHz 1300z 25/03 [-----] 1311z good	Token	MON
V24 6310kHz 1530z 26/03 [-----] 1540z good	Token	TUE
V24 6310kHz 1530z 27/03 [-----] 1540z good	Token	WED
V24 6310kHz 1300z 28/03 [-----] 1308z good	Token	THU
V24 5115kHz 1500z 31/03 [-----] 1510z good	Token	SUN

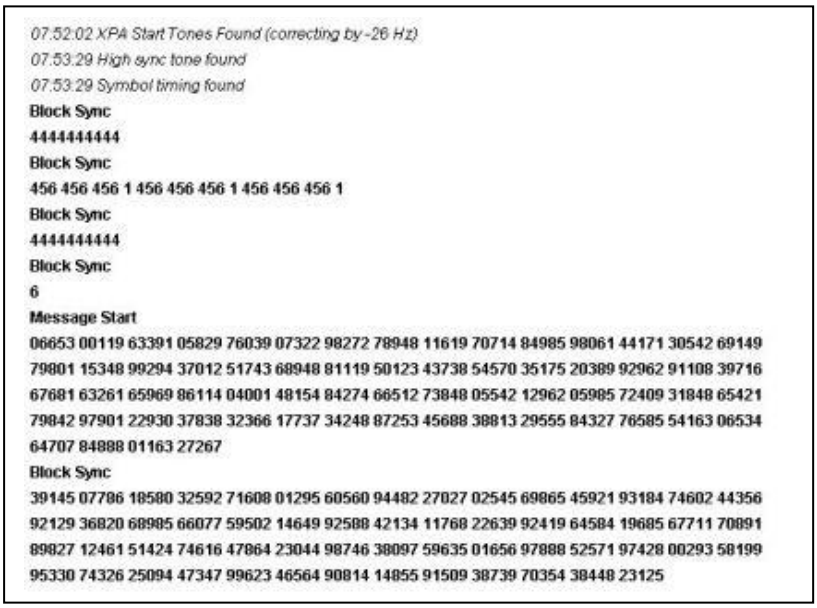
V30
January 2013

Polytones:

XPA c
March2013:

Wed/Sat

11409kHz0700z	02/03[456 1 09421 00131 81953 17522] Strong	(3m45s)	PLdn	SAT
13509kHz0720z	02/03[456 1 09421 00131 81953 17522] Fair	(3m45s)	BR, PLdn	SAT
14609kHz0740z	02/03[456 1 09421 00131 81953 17522] Strong	(3m45s)	BR, PLdn	SAT
11409kHz0700z	06/03[456 1 09421 00131 81953 17522] Very strong	(3m45s)	PLdn	WED
13509kHz0720z	06/03[456 1 09421 00131 81953 17522] Very strong	(3m45s)	PLdn	WED
14609kHz0740z	06/03[456 1 09421 00131 81953 17522] Very strong	(3m45s)	PLdn	WED
11409kHz0700z	09/03[456 1 09421 00131 81953 17522] Fair, QRM2/3	(3m46s)	PLdn	SAT
13509kHz0720z	09/03[456 1 09421 00131 81953 17522] Very strong	(3m46s)	PLdn	SAT
14609kHz0740z	09/03[456 1 09421 00131 81953 17522] Very strong	(3m46s)	PLdn	SAT
11409kHz0700z	13/03[456 1 06653 00119 63391 23125] Very strong	(3m39s)	PLdn	WED
13509kHz0720z	13/03[456 1 06653 00119 63391 23125] Very strong	(3m39s)	PLdn, RNGB	WED
14609kHz0740z	13/03[456 1 06653 00119 63391 23125] Very strong	(3m39s)	PLdn	WED



Perfect copy 14609kHz 0740z 16/03 Taken from recorded transmission from SDR and then, via Audition, decoded via IW's splendid RIVET using 'from soundcard' selection.

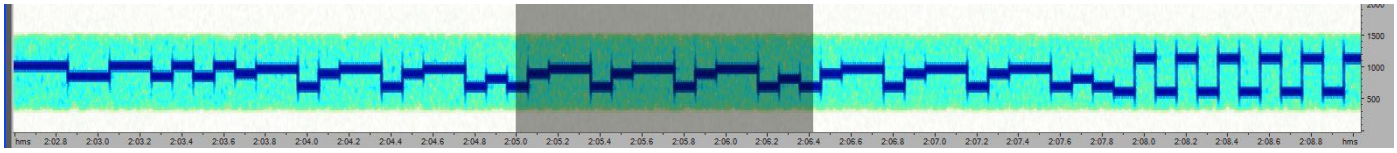
11409kHz0700z	16/03[456 1 06653 00119 63391 23125] Very strong	(3m39s)	PLdn	SAT
13509kHz0720z	16/03[456 1 06653 00119 63391 23125] Very strong	(3m39s)	PLdn	SAT
14609kHz0740z	16/03[456 1 06653 00119 63391 23125] Very strong	(3m39s)	PLdn	SAT
11409kHz0700z	20/03[456 1 06653 00119 63391 23125] Very strong	(3m39s)	PLdn	WED
13509kHz0720z	20/03[456 1 06653 00119 63391 23125] Very strong	(3m39s)	PLdn	WED
14609kHz0740z	20/03[456 1 06653 00119 63391 23125] Very strong	(3m39s)	PLdn	WED
11409kHz0700z	23/03[456 1 06714 00103 15486 (41311)] Very weak, fading from start	(3m29s)	PLdn	SAT
13509kHz0720z	23/03 Very weak, almost inaudible		PLdn	SAT
14609kHz0740z	23/03[456 1 06714 00103 15486 (41311)] Weak, Signal suddenly weak at end. Tx Problems?	(3m29s)	PLdn	SAT
11409kHz0700z	27/03[456 1 06541 00251 50867 50534] Very strong	(4m59s)	PLdn	WED
13509kHz0720z	27/03[456 1 06541 00251 50867 50534] Strong	(4m59s)	PLdn	WED
14609kHz0740z	27/03[456 1 06541 00251 50867 50534] Very strong, brief QSB3	(4m59s)	PLdn	WED

07:40:17 XPA Start Tones Found (correcting by -19 Hz)
07:41:53 High sync tone found
07:41:54 Symbol timing found
Block Sync
4444444444
Block Sync
456 456 456 1 456 456 456 1 456 456 456 1 6666622
UNID 465 Hz
2662626
4444444444
Block Sync
6
Message Start
06541 00251 50867 82551 87740 60377 89566 46410 91071 43035 99821 50884 81739 09483 92218
18986 67839 33409 41582 76610 75314 15656 87777 62280 34107 50550 91341 52704 57195 48122
15764 06009 73100 63679 61344 37283 39279 40618 91613 98839 29875 99623 34843 78639 34359
39545 57586 81809 38881 80833 51892 73156 08258 66053 49955 97720 67091 83638 64760 23143
61333 37513 25645 16797
Block Sync
74201 33659 22868 20100 25173 75323 39985 44903 57444 37987 43120 74845 13581 96219 32172
92364 15331 44917 18978 51307 18948 48317 84125 81267 98648 70095 91558 45646 04078 16174
64453 12185 38187 41855 79129 04279 43495 77662 84470 50972 26478 61542 25407 15722 14490
41633 99266 10847 72931 58356 17225 29714 38678 24757 55844 44635 80212 73520 58546 67601
41808 14697 70665 27038
Block Sync
85935 62399 96221 12791 77815 06848 88561 30006 68830 00538 94235 20024 02539 43611 52138
17804 03450 78842 25087 92123 57489 38466 72216 93868 42877 89108 70682 34829 80540 27565
48316 30894 34462 55163 13258 06125 74242 22554 14946 32562 04546 09584 26908 71726 48450
68109 33379 06976 79724 02431 68208 55406 75405 56314 52587 12279 95084 06634 95531 14463
66354 51978 51755 71634
Block Sync
18907 92790 59655 18267 63029 29606 34790 39919 56629 71746 85270 67316 33326 23688 41839
45580 21517 05599 06026 29215 08767 12948 86292 70291 32583 93853 78400 82995 89476 51971
32641 38405 83964 47170 57222 96054 92397 59935 93959 13315 21758 40451 70501 47617 50227
83508 40973 36701 36641 11863 99075 59162 38493 12299 86043 04578 44619 31793 65534 66239
12008 50534

14609kHz0740z 30/03 straight into Rivet; perfect copy.

11409kHz0700z	30/03[456 1 06541 00251 50867 50534] Weak, under noise.	(4m59s)	PLdn	SAT
13509kHz0720z	30/03[456 1 06541 00251 50867 50534] Very strong	(4m59s)	PLdn	SAT
14609kHz0740z	30/03[456 1 06541 00251 50867 50534] Very strong	(4m59s)	PLdn	SAT

April2013:



As seen, this ident 355 now has double tone for 5 200ms instead of 100ms plus repeat tone. Taken from10395kHz 0600z 03/04/2013 [below]

10359kHz0600z	03/04[355 1 06541 00251 50867 50534] Very strong, rpts msg hrd 0700z 27/03	(4m59s)	PLdn	WED
11559kHz0620z	03/04[355 1 06541 00251 50867 50534] Very strong, rpts msg hrd 0700z 27/03	(4m59s)	PLdn	WED
13559kHz0640z	03/04[355 1 06541 00251 50867 50534] Very strong, rpts msg hrd 0700z 27/03	(4m59s)	PLdn	WED
10359kHz0600z	06/04[355 1 09991 00191 87935 05076] Strong QRM from data stn	(4m23s)	BR	SAT
11559kHz0620z	06/04[355 1 09991 00191 87935 05076] Strong with QSB	(4m23s)	BR	SAT
13559kHz0640z	06/04[355 1 09991 00191 87935 05076] Strong	(4m23s)	BR	SAT
10359kHz0600z*	10/04[355 1 09991 00191 87935 05076] Strong	(4m23s)	BR	WED
11559kHz0620z*	10/04[355 1 09991 00191 87935 05076] Good with QSB	(4m23s)	BR	WED
13559kHz0640z	10/04[355 1 09991 00191 87935 05076] Strong	(4m23s)	BR	WED

*There were several glitches in the 0600z transmission & one near the start of the 0620z transmission that caused split-second drop-out of the tones

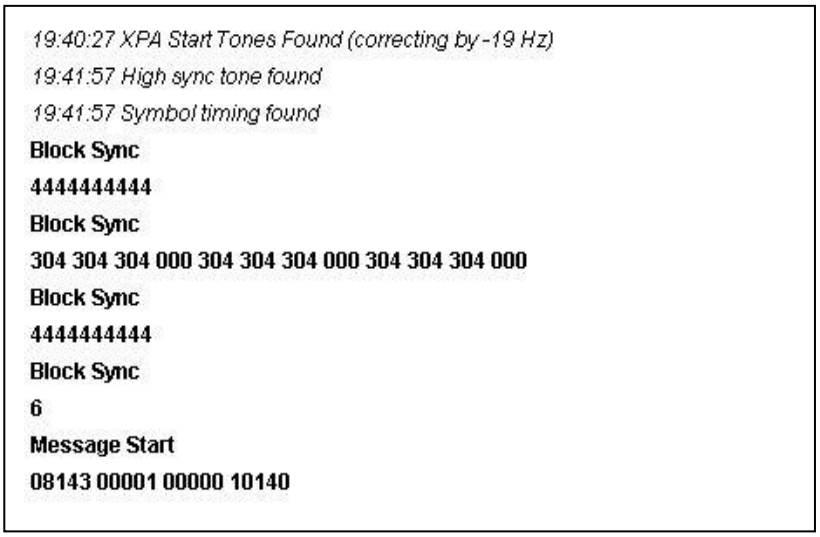
10359kHz0600z	13/04[355 1 09991 00191 87935 05076] Strong with QSB	(4m23s)	BR	SAT
11559kHz0620z	13/04[355 1 09991 00191 87935 05076] Fair / noisy with QSB	(4m23s)	BR	SAT
13559kHz0640z	13/04[355 1 09991 00191 87935 05076] Fair / noisy	(4m23s)	BR	SAT
10359kHz0600z	17/04[355 1 09177 00201 65387 03026]Very strong	(4m30s)	PLdn	WED
11559kHz0620z	17/04[355 1 09177 00201 65387 03026]Very strong	(4m30s)	PLdn	WED
13559kHz0640z	17/04[355 1 09177 00201 65387 03026]Very strong	(4m30s)	PLdn	WED

10359kHz0600z	20/04[355 000 01078 00001 00000 10140] Very strong	(2m26s)	PLdn	SAT
11559kHz0620z	20/04[355 000 01078 00001 00000 10140] Very strong	(2m26s)	PLdn	SAT
13559kHz0640z	20/04[355 000 01078 00001 00000 10140] Very strong	(2m26s)	PLdn	SAT
10359kHz0600z	24/04[355 1 03760 00145 91740 74504] Strong	(3m54s)	PLdn	WED
11559kHz0620z	24/04[355 1 03760 00145 91740 74504] Strong	(3m54s)	PLdn	WED
13559kHz0640z	24/04[355 1 03760 00145 91740 74504] Strong, QRM2	(3m54s)	PLdn	WED
10359kHz0600z	27/04[355 1 03760 00145 91740 74504] Strong	(3m54s)	PLdn	SAT
11559kHz0620z	27/04[355 1 03760 00145 91740 74504] Strong, PLASMAQRM3	(3m54s)	PLdn	SAT
13559kHz0640z	27/04[355 1 03760 00145 91740 74504] Strong	(3m54s)	PLdn	SAT

XPA e
March2013:

Tue/Wed

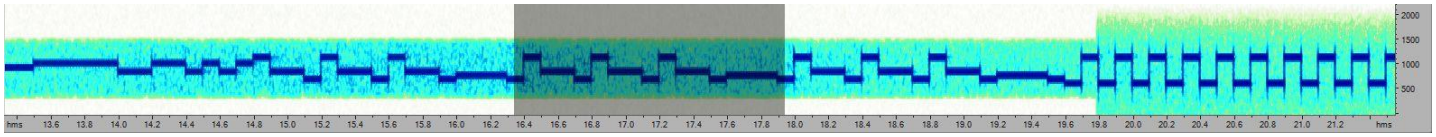
9362kHz1900z	05/03[304 1 00151 00101 14163 04757] Fair, QRM3	(3m27s)	PLdn	TUE
8062kHz1920z	05/03[304 1 00151 00101 14163 04757] Fair, QRM3	(3m27s)	PLdn	TUE
7462kHz1940z	05/03[304 1 00151 00101 14163 04757] Fair	(3m27s)	PLdn	TUE
9362kHz1900z	07/03[304 1 00151 00101 14163 04757] Fair, QRM2/3	(3m27s)	PLdn, FR	THU
8062kHz1920z	07/03[304 1 00151 00101 14163 04757] Fair	(3m27s)	PLdn, FR	THU
7462kHz1940z	07/03[304 1 00151 00101 14163 04757] Fair	(3m27s)	PLdn, FR	THU
9362kHz1900z	12/03[304 000 08293 00001 00000 10140] Weak, noisy	(2m26s)	PLdn	TUE
8062kHz1920z	12/03[304 000 08293 00001 00000 10140] Fair	(2m26s)	PLdn	TUE
7462kHz1940z	12/03[304 000 08293 00001 00000 10140] Fair	(2m26s)	PLdn	TUE
9362kHz1900z	14/03[304 000 01718 00001 00000 10140] Fair	(2m26s)	PLdn	THU
8062kHz1920z	14/03[304 000 01718 00001 00000 10140] Fair	(2m26s)	PLdn	THU
7462kHz1940z	14/03[304 000 01718 00001 00000 10140] Fair	(2m26s)	PLdn	THU



Perfect copy 7462kHz 1940z 19/03 Taken from recorded transmission from SDR and then, via Audition, decoded via IW's splendid RIVET directly off virtual soundcard.

9362kHz1900z	19/03[304 000 08143 00001 00000 10140] Fair, QRM		(2m26s)	RNGB, PLdn	TUE
8062kHz1920z	19/03[304 000 08143 00001 00000 10140] Fair		(2m26s)	PLdn	TUE
7462kHz1940z	19/03[304 000 08143 00001 00000 10140] Fair	*See above*	(2m26s)	PLdn	TUE
9362kHz1900z	21/03[304 000 02334 00001 00000 10140] Weak, QRM3		(2m26s)	PLdn	THU
8062kHz1920z	21/03[304 000 02334 00001 00000 10140] Fair		(2m26s)	PLdn	THU
7462kHz1940z	21/03[304 000 02334 00001 00000 10140] Weak, QRM3		(2m26s)	PLdn	THU
9362kHz1900z	26/03[304 1 05509 00127 38502 55535] Fair, QRM3		(3m52s)	PLdn	TUE
8062kHz1920z	26/03[304 1 05509 00127 38502 55535] Fair, QRM3		(3m52s)	PLdn	TUE
7462kHz1940z	26/03[304 1 05509 00127 38502 55535] Fair		(3m52s)	PLdn	TUE
9362kHz 1900z	28/03 ~ MISSED ~			PLdn	THU
8062kHz 1920z	28/03[304 1 05509 00127 38502 55535] Fair, QRM3		(3m52s)	PLdn	THU
7462kHz 1940z	28/03[304 1 05509 00127 38502 55535] Fair		(3m52s)	PLdn	THU

April2013:



ID this month is 922. Note in shaded area the 22 of the ident is much like the 000 of the null message, a double length tone.

10943kHz1900z	02/04[922 000 03232 00001 00000 10140] Strong XJTQRM3	*see diagram above 922*	(2m26s)	PLdn	TUE
10243kHz1920z	02/04[922 000 03232 00001 00000 10140] Very strong	*see diagram above 922*	(2m26s)	PLdn	TUE
9243kHz1940z	02/04[922 000 03232 00001 00000 10140] Strong	*see diagram above 922*	(2m26s)	PLdn	TUE

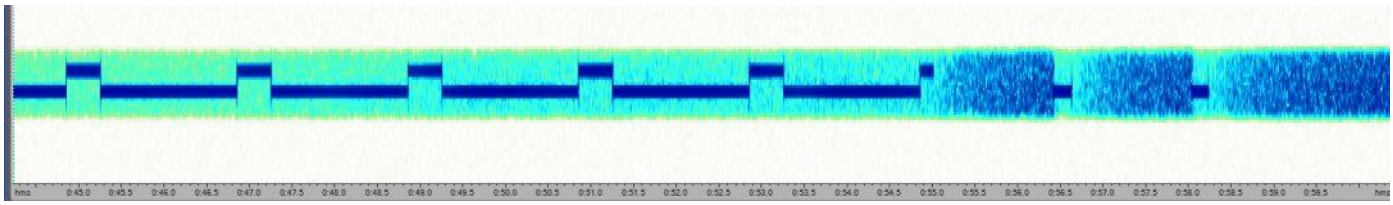
Transmission above as decoded on Rivet.

19:44:59 XPA Start Tones Found (correcting by -19 Hz)
19:45:04 High sync tone found
19:45:04 Symbol timing found
Block Sync
4444444444
Block Sync
922 922 922 000 922 922 922 000 922 922 922 000
Block Sync
4444444444
Block Sync
6
Message Start
03232 00001 00000 10140

10943kHz1900z	04/04[922 000 03919 00001 00000 10140] Very weak	(2m26s)	PLdn	THU
10243kHz1920z	04/04[922 000 03919 00001 00000 10140] Fair	(2m26s)	PLdn	THU
9243kHz1940z	04/04[922 000 03919 00001 00000 10140] Fair, QRM2	(2m26s)	PLdn	THU
10943kHz1900z	09/04[922 1 07878 00213 64464 71554] Strong Severe XJT QRM	(4m36s)	BR	TUE
10243kHz1920z	09/04[922 1 07878 00213 64464 71554] Good / noisy with QSB	(4m36s)	BR	TUE
9243kHz1940z	09/04[922 1 07878 00213 64464 71554] Good / noisy with QSB	(4m36s)	BR	TUE
10943kHz1900z	11/04[922 1 07878 00213 64464 71554] Good Severe XJT QRM	(4m36s)	BR	THU
10243kHz1920z	11/04[922 1 07878 00213 64464 71554] Fair / noisy with QSB	(4m36s)	BR	THU
9243kHz1940z	11/04[922 1 07878 00213 64464 71554] Fair / noisy with QSB	(4m36s)	BR	THU
10943kHz1900z	16/04 Too weak to process		PLdn	TUE
10243kHz1920z	16/04 Too weak to process		PLdn	TUE
9243kHz1940z	16/04 Too weak to process		PLdn	TUE
10943kHz1900z	18/04[922 000 05080 00001 00000 10140] Fair	(2m26s)	PLdn	THU
10243kHz1920z	18/04[922 000 05080 00001 00000 10140] Fair	(2m26s)	PLdn	THU
9243kHz1940z	18/04[922 000 05080 00001 00000 10140] Fair	(2m26s)	PLdn	THU
10943kHz1900z	23/04[922 1 01157 00273 05294 27070] Fair, XJTQRM2	(5m14s)	PLdn	TUE
10243kHz1920z	23/04[922 1 01157 00273 05294 27070] Fair, LocalQRM2	(5m14s)	PLdn	TUE
9243kHz1940z	23/04[922 1 01157 00273 05294 27070] Fair, LocalQRM2	(5m14s)	PLdn	TUE
10943kHz1900z	25/04[922 1 01157 00273 05294 27070] Fair, XJTQRM3	(5m14s)	PLdn	THU
10243kHz1920z	25/04[922 1 01157 00273 05294 27070] Fair	(5m14s)	PLdn	THU
9243kHz1940z	25/04[922 1 01157 00273 05294 27070] Fair	(5m14s)	PLdn	THU
10943kHz1900z	30/04[922 000 08668 00001 00000 10140] Strong	(2m26s)	PLdn	TUE
10243kHz1920z	30/04[922 000 08668 00001 00000 10140] Strong	(2m26s)	PLdn	TUE
9243kHz1940z	30/04[922 000 08668 00001 00000 10140] Strong	(2m26s)	PLdn	TUE

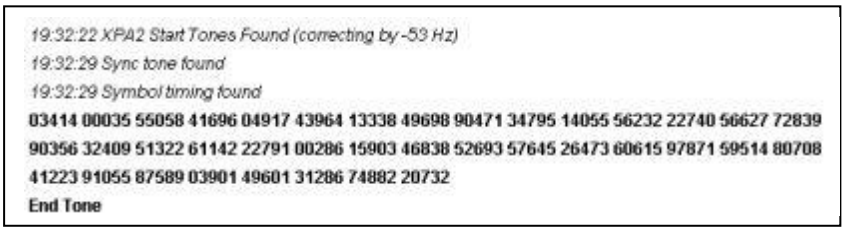
XPA2 m
March2013:

Sun/Tue



Break in start of transmission 16138kHz1500z 12/03

16138kHz1500z	03/03[01810 00059 34025 56453] Very strong	(2m56s)	PLdn	SUN
14438kHz1520z	03/03[01810 00059 34025 56453] Very strong	(2m56s)	PLdn	SUN
13438kHz1540z	03/03[01810 00059 34025 56453] Very strong	(2m56s)	PLdn	SUN
16138kHz1500z	05/03[01810 00059 34025 56453] Strong	(2m56s)	PLdn	TUE
14438kHz1520z	05/03[01810 00059 34025 56453] Fair	(2m56s)	PLdn	TUE
13438kHz1540z	05/03[01810 00059 34025 56453] Fair	(2m56s)	PLdn	TUE
16138kHz1500z	10/03[08559 00001 00000 10140] Very strong	(2m11s)	PLdn	SUN
14438kHz1520z	10/03[08559 00001 00000 10140] Very strong	(2m11s)	PLdn	SUN
13438kHz1540z	10/03[08559 00001 00000 10140] Very strong	(2m11s)	PLdn	SUN
16138kHz1500z	12/03 Sending failed 54s into sending. Very strong *See fig at start of section*		PLdn	TUE
14438kHz1520z	12/03[06821 00001 00000 10140] Very strong	(2m11s)	PLdn	TUE
13438kHz1540z	12/03[06821 00001 00000 10140] Very strong	(2m11s)	PLdn	TUE



Perfect copy 116138kHz1500z 17/03, again using soundcard , Audition and RIVET after transmission

16138kHz1500z	17/03[03414 00035 55058 20732] Very strong	(2m37s)	PLdn	SUN
14438kHz1520z	17/03[03414 00035 55058 20732] Very strong	(2m37s)	PLdn	SUN
13438kHz1540z	17/03[03414 00035 55058 20732] Very strong	(2m37s)	PLdn	SUN
16138kHz1500z	19/03[03414 00035 55058 20732] Very strong	(2m37s)	PLdn	TUE
14438kHz1520z	19/03[03414 00035 55058 20732] Very strong	(2m37s)	PLdn	TUE
13438kHz1540z	19/03[03414 00035 55058 20732] Very strong	(2m37s)	PLdn	TUE
16138kHz1500z	24/03[05052 00045 15593 26753] Strong	(2m45s)	RNGB, PLdn	SUN
14438kHz1520z	24/03[05052 00045 15593 26753] Strong	(2m45s)	PLdn	SUN
13438kHz1540z	24/03[05052 00045 15593 26753] Strong	(2m45s)	PLdn	SUN
16138kHz1500z	26/03[05052 00045 15593 26753] Strong and noisy	(2m45s)	PLdn	TUE
14438kHz1520z	26/03[05052 00045 15593 26753] Very strong	(2m45s)	PLdn	TUE
13438kHz1540z	26/03[05052 00045 15593 26753] Very strong	(2m45s)	PLdn	TUE
16138kHz1500z	31/03[03497 00001 00000 10140] Very strong	(2m11s)	PLdn	SUN
14438kHz1520z	31/03[03497 00001 00000 10140] Very strong	(2m11s)	PLdn	SUN
13438kHz1540z	31/03[03497 00001 00000 10140] Very strong	(2m11s)	PLdn	SUN

April2013:

14538kHz1800z	02/04[07409 00001 00000 10140] Very strong	(2m11s)	PLdn	TUE
13538kHz1820z	02/04[07409 00001 00000 10140] Very strong	(2m11s)	PLdn	TUE
12138kHz1840z	02/04[07409 00001 00000 10140] Very strong	(2m11s)	PLdn	TUE
14538kHz1800z	07/04[09236 00073 40085 25532] Very strong	(3m06s)	BR	SUN
13538kHz1820z	07/04[09236 00073 40085 25532] Very strong	(3m06s)	BR	SUN
12138kHz1840z	07/04[09236 00073 40085 25532] Strong (Severe B/Cast QRM)	(3m06s)	BR	SUN
14538kHz1800z	09/04[09236 00073 40085 25532] Strong	(3m06s)	BR	TUE
13538kHz1820z	09/04[09236 00073 40085 25532] Very strong	(3m06s)	BR	TUE
12138kHz1840z	09/04[09236 00073 40085 25532] Very strong (B/Cast QRM)	(3m06s)	BR	TUE
14538kHz1800z	14/04[02106 00001 00000 10140] Very strong, noisy with QSB	(2m11s)	BR	SUN
13538kHz1820z	14/04[02106 00001 00000 10140] Very strong	(2m11s)	BR	SUN
12138kHz1840z	14/04[02106 00001 00000 10140] Strong (Severe B/Cast QRM)	(2m11s)	BR	SUN

14538kHz1800z	16/04[07923 00001 00000 10140] Very strong	(2m11s)	PLdn	TUE
13538kHz1820z	16/04[07923 00001 00000 10140] Strong	(2m11s)	PLdn	TUE
12138kHz1840z	16/04[07923 00001 00000 10140] Strong	(2m11s)	PLdn	TUE
14538kHz1800z	21/04[05067 00053 96823 61131] Very strong	(2m51s)	PLdn	SUN
13538kHz1820z	21/04[05067 00053 96823 61131] Very strong	(2m51s)	PLdn	SUN
12138kHz1840z	21/04[05067 00053 96823 61131] Very strong	(2m51s)	PLdn	SUN
14538kHz1800z	23/04[05067 00053 96823 61131] Very strong	(2m51s)	PLdn	TUE
13538kHz1820z	23/04[05067 00053 96823 61131] Very strong	(2m51s)	PLdn	TUE
12138kHz1840z	23/04[05067 00053 96823 61131] Very strong	(2m51s)	PLdn	TUE
14538kHz1800z	28/04[01281 00001 00000 10140] Very strong	(2m11s)	PLdn	SUN
13538kHz1820z	28/04[01281 00001 00000 10140] Very strong	(2m11s)	PLdn	SUN
12138kHz1840z	28/04[01281 00001 00000 10140] Very strong	(2m11s)	PLdn	SUN
14538kHz1800z	30/04[01567 00001 00000 10140] Very strong	(2m11s)	PLdn	TUE
13538kHz1820z	30/04[01567 00001 00000 10140] Very strong	(2m11s)	PLdn	TUE
12138kHz1840z	30/04[01567 00001 00000 10140] Very strong	(2m11s)	PLdn	TUE

XPA2 p
March2013

Mon/Wed

15956kHz0800z	04/03[07545 00077 53764 47264] Strong	(3m 09s)	BR, RNGB	MON
14956kHz0820z	04/03[07545 00077 53764 47264] Strong (QSB)	(3m 09s)	BR, RNGB	MON
13956kHz0840z	04/03[07545 00077 53764 47264] Very Strong	(3m 09s)	BR, RNGB	MON
15956kHz0800z	06/03[07545 00077 53764 47264] Strong, QSB	(3m 09s)	BR	WED
14956kHz0820z	06/03[07545 00077 53764 47264] Strong, QSB	(3m 09s)	BR	WED
13956kHz0840z	06/03[07545 00077 53764 47264] Very strong, QSB	(3m 09s)	BR	WED
15956kHz0800z	11/03[07519 00101 49796 33324] Strong	(3m29s)	PLdn	MON
14956kHz0820z	11/03[07519 00101 49796 33324] Very strong	(3m29s)	PLdn	MON
13956kHz0840z	11/03[07519 00101 49796 33324] Very strong	(3m29s)	PLdn	MON
15956kHz0800z	13/03[07519 00101 49796 33324] Very strong	(3m29s)	PLdn	WED
14956kHz0820z	13/03[07519 00101 49796 33324] Very strong	(3m29s)	PLdn	WED
13956kHz0840z	13/03[07519 00101 49796 33324] Very strong	(3m29s)	PLdn	WED
15956kHz0800z	18/03[04763 00001 00000 10140] Weak, QSB2	(2m11s)	PLdn	MON
14956kHz0820z	18/03[04763 00001 00000 10140] Weak	(2m11s)	PLdn	MON
13956kHz0840z	18/03 NRH	(2m11s)	PLdn	MON
15956kHz0800z	20/03[03051 00001 00000 10140] Fair	(2m11s)	PLdn	WED
14956kHz0820z	20/03[03051 00001 00000 10140] Fair	(2m11s)	PLdn	WED
13956kHz0840z	20/03 NRH		PLdn	WED
15956kHz0800z	25/03[01725 00191 56060 76025] Very strong	(4m36s)	PLdn	MON
14956kHz0820z	25/03[01725 00191 56060 76025] Very strong	(4m36s)	PLdn	MON
13956kHz0840z	25/03[01725 00191 56060 76025] Very strong	(4m36s)	PLdn	MON
15956kHz0800z	27/03[01725 00191 56060 76025] Very strong	(4m36s)	RNGB,PLdn	WED
14956kHz0820z	27/03[01725 00191 56060 76025] Very strong	(4m36s)	PLdn	WED
13956kHz0840z	27/03[01725 00191 56060 76025] Very strong	(4m36s)	PLdn	WED

XPA p
April2013:

Believed seasonal time and day change with possible reschedule……not yet found.

XPA2 r
March2013

Fri/Sat

18667kHz1400z	01/03[03696 00159 84142 05071] Strong and noisy	(4m12s)	PLdn	FRI
17419kHz1420z	01/03[03696 00159 84142 05071] Strong	(4m12s)	PLdn	FRI
16212kHz1440z	01/03[03696 00159 84142 05071] Strong and noisy	(4m12s)	PLdn	FRI
18667kHz1400z	02/03[03696 00159 84142 05071] Very strong	(4m12s)	PLdn	SAT
17419kHz1420z	02/03[03696 00159 84142 05071] Very strong	(4m12s)	PLdn	SAT
16212kHz1440z	02/03[03696 00159 84142 05071] Very strong	(4m12s)	PLdn	SAT
18667kHz1400z	08/03[06838 00229 05942 64330] Very strong	(5m06s)	PLdn	FRI
17419kHz1420z	08/03[06838 00229 05942 64330] Very strong	(5m06s)	PLdn	FRI
16212kHz1440z	08/03[06838 00229 05942 64330] Very strong	(5m06s)	PLdn	FRI
18667kHz1400z	09/03[06838 00229 05942 64330] Very strong	(5m06s)	PLdn	SAT
17419kHz1420z	09/03[06838 00229 05942 64330] Strong	(5m06s)	PLdn	SAT
16212kHz1440z	09/03[06838 00229 05942 64330] Strong	(5m06s)	PLdn	SAT

18667kHz1400z	15/03[05500 00077 66272 37244] Very strong		(3m10s)	PLdn	FRI
17419kHz1420z	15/03[05500 00077 66272 37244] Strong		(3m10s)	PLdn	FRI
16212kHz1440z	15/03[05500 00077 66272 37244] Very strong		(3m10s)	PLdn	FRI
18667kHz1400z	16/03[05500 00077 66272 37244] Very strong		(3m10s)	PLdn	SAT
17419kHz1420z	16/03[05500 00077 66272 37244] Very strong		(3m10s)	PLdn	SAT
16212kHz1440z	16/03[05500 00077 66272 37244] Very strong		(3m10s)	PLdn	SAT
18667kHz1400z	22/03[04451 00051 37281 25445] Very strong		(2m49s)	PLdn	FRI
17419kHz1420z	22/03[04451 00051 37281 25445] Very strong		(2m49s)	PLdn	FRI
16212kHz1440z	22/03[04451 00051 37281 25445] Very strong		(2m49s)	PLdn	FRI
18667kHz1400z	23/03[04451 00051 37281 25445] Very strong		(2m49s)	RNGB, PLdn	SAT
17419kHz1420z	23/03[04451 00051 37281 25445] Very strong		(2m49s)	PLdn	SAT
16212kHz1440z	23/03[04451 00051 37281 25445] Very strong		(2m49s)	PLdn	SAT
18667kHz1400z	29/03[03619 00071 16342 77141] Weak	(test tones vy strong)	(3m05s)	PLdn	FRI
17419kHz1420z	29/03[03619 00071 16342 77141] Very strong		(3m05s)	PLdn	FRI
16212kHz1440z	29/03[03619 00071 16342 77141] Very strong		(3m05s)	PLdn	FRI
18667kHz1400z	30/03 Missed		(3m05s)	PLdn	SAT
17419kHz1420z	30/03[03619 00071 16342 77141] Very strong		(3m05s)	RNGB, PLdn	SAT
16212kHz1440z	30/03[03619 00071 16342 77141] Very strong		(3m05s)	PLdn	SAT

April2013:

XPA r Scheduled time change.
Fri/Sat

17462kHz1900z	05/04[02404 00083 81898 56267] Strong		(3m14s)	BR	FRI
16114kHz1920z	05/04[02404 00083 81898 56267] Strong with QSB		(3m14s)	BR	FRI
14828kHz1920z	05/04[02404 00083 81898 56267] Strong		(3m14s)	BR	FRI
17462kHz1900z	06/04[02404 00083 81898 56267] Strong		(3m14s)	BR	SAT
16114kHz1920z	06/04[02404 00083 81898 56267] Very strong		(3m14s)	BR	SAT
14828kHz1920z	06/04[02404 00083 81898 56267] Strong		(3m14s)	BR	SAT
17462kHz1900z	12/04[00744 00099 96153 61360] Very strong		(3m26s)	BR	FRI
16114kHz1920z	12/04[00744 00099 96153 61360] Very strong		(3m26s)	BR	FRI
14828kHz1920z	12/04[00744 00099 96153 61360] Strong with slight QSB		(3m26s)	BR	FRI
17462kHz1900z	13/04[00744 00099 96153 61360] Very strong		(3m26s)	BR	SAT
16114kHz1920z	13/04[00744 00099 96153 61360] Very strong		(3m26s)	BR	SAT
14828kHz1920z	13/04[00744 00099 96153 61360] Very Strong		(3m26s)	BR	SAT
17462kHz1900z	19/04[05097 00001 00000 10140] Very strong		(2m11s)	PLdn	FRI
16114kHz1920z	19/04[05097 00001 00000 10140] Very strong		(2m11s)	PLdn	FRI
14828kHz1940z	19/04[05097 00001 00000 10140] Very strong		(2m11s)	PLdn	FRI
17462kHz1900z	20/04[03465 00001 00000 10140] Very strong		(2m11s)	PLdn	SAT
16114kHz1920z	20/04[03465 00001 00000 10140] Very strong		(2m11s)	PLdn	SAT
14828kHz1940z	20/04[03465 00001 00000 10140] Very strong		(2m11s)	PLdn	SAT
17462kHz1900z	26/04[02314 00105 55536 61130] Fair, QRM3		(3m31s)	PLdn	FRI
16114kHz1920z	26/04[02314 00105 55536 61130] Very strong		(3m31s)	PLdn	FRI
14828kHz1940z	26/04[02314 00105 55536 61130] Very strong		(3m31s)	PLdn	FRI
17462kHz1900z	27/04[02314 00105 55536 61130] Very strong		(3m31s)	PLdn	SAT
16114kHz1920z	27/04[02314 00105 55536 61130] Very strong		(3m31s)	PLdn	SAT
14828kHz1940z	27/04[02314 00105 55536 61130] Very strong		(3m31s)	PLdn	SAT

XPA2 Others
March2013:

8145kHz0730z	04/03[02980 00150 50695 61025] Fair/Good	*Checked daily throughout March, remained NRH*		RNGB	MON

Changed from E07

20841kHz0800z	19/03[00157 00067 75365 41477] Was E07			RNGB, GD	TUE
20841kHz0800z	22/03[00968 00067 90080 55503] Strong signal, strong noise			FR	SAT
18741kHz0820z	22/03[00968 00067 90080 55503]			GD, FR	SAT
17441kHz0840z	22/03[00968 00067 90080 55503] Strong signal, moderate noise, minor fading			FR	SAT
20841kHz0800z	26/03[00627 00205 75855 67444]		(4m49s)	RNGB	TUE

XPA2 Others
April2013

Sun/Fri

16147kHz1500z	19/04[07529 00161 03113 02331]	(4m14s)	RNGB	FRI
14947kHz1520z	19/04[07529 00161 03113 02331]	(4m14s)	RNGB	FRI
14447kHz1540z	19/04[07529 00161 03113 02331]	(4m14s)	RNGB	FRI
16147kHz1500z	21/04[07529 00161 03113 02331] Very strong	(4m18s)	PLdn	SUN
14947kHz1520z	21/04[07529 00161 03113 02331] Very strong	(4m18s)	PLdn	SUN
14447kHz1540z	21/04[07529 00161 03113 02331] Very strong	(4m18s)	PLdn	SUN
16147kHz1500z	26/04[04039 00001 00000 10140] Very strong	(2m11s)	PLdn	FRI
14947kHz1520z	26/04[04039 00001 00000 10140] Very strong	(2m11s)	PLdn	FRI
14447kHz1540z	26/04[04039 00001 00000 10140] Very strong	(2m11s)	PLdn	FRI
16147kHz1500z	28/04[07419 00001 00000 10140] Very strong	(2m11s)	PLdn	SUN
14947kHz1520z	28/04[07419 00001 00000 10140] Very strong	(2m11s)	PLdn	SUN
14447kHz1540z	28/04[07419 00001 00000 10140] Very strong	(2m11s)	PLdn	SUN

Tue/Fri

nnnnnkHz0700z	05/04 Not Found			
19557kHz0720z	05/04[00499 00123 23181 13363] Very strong		FR	FRI
18057kHz0740z	05/04[-] Too much noise for decode Strong signal		FR	FRI
(Included for reference)				
21857kHz0700z	09/04[00649 00143 40882 12147]	(4m01s)	RNGB	TUE
19557kHz0720z	09/04[00649 00143 40882 12147] Good with QSB	(4m01s)	BR	TUE
18057kHz0740z	09/04[00649 00143 40882 12147] Fair, noisy	(4m01s)	BR	TUE
21857kHz0700z	12/04[-] Extremely weak - Mostly inaudible		BR	FRI
19557kHz0720z	12/04[-] Extremely weak - unusable		BR	FRI
18057kHz0740z	12/04[00649 00143 40882 12147] Fair, noisy	(4m01s)	BR, GD,FR	FRI
21857kHz0700z	16/04[-] Extremely weak – unusable	(4m01s)	BR, PLdn	TUE
19557kHz0720z	16/04[00456 00143 ……]	(4m01s)	GD, BR, PLdn	TUE
18057kHz0740z	16/04[00456 00143 70163 72615] Fair, noisy	(4m01s)	BR, PLdn	TUE
21857kHz0700z	19/04[08153 00001 00000 10140] Strong	(2m12s)	FR, BR	FRI
19557kHz0720z	19/04[08153 00001 00000 10140] Very strong	(2m12s)	FR, BR	FRI
18057kHz0740z	19/04[08153 00001 00000 10140] Very strong	(2m12s)	FR, BR	FRI
21857kHz0700z	23/04 NRH		PLdn	TUE
19557kHz0720z	23/04[00827 00121 49907 11425] Fair	(3m44s)	PLdn	TUE
21857kHz0740z	23/04[00827 00121 49907 11425] Fair	(3m44s)	PLdn	TUE
21857kHz0700z	26/04[NRH]		PLdn	FRI
19557kHz0720z	26/04[NRH]		PLdn	FRI
18057kHz0740z	26/04[NRH]		PLdn	FRI
21857kHz0700z	30/04 NRH		PLdn	TUE
19557kHz0720z	30/05 Extremely weak, odd tones only		PLdn	TUE
21857kHz0740z	30/04[02561 00214 27991 (24645] Unsure of last group]	(4m54s)	PLdn	TUE

XSL

8588kHz 2100z	07/03 [XSL Heard on SDR remote in Europe] 2101z Weak QRN3 QSB3	Spectre	THU

Digital, Incursions and Unexplained Signals

After a break of a month or two and while I worked on other projects at the start of April I went back to looking at my previous decodes of FSK200/1000 traffic. Previously myself and another member who has been a big help had identified the following ..

1 That data is sent in 288 bit frames with a 32 bit synchronization sequence.
2 Block 0 in each message tells how many blocks there are in this message (with each message being repeated several times during each 7 minute long sending).
3 Each block contains a block number presumably so the receiving station can tell if it is missing a block.
4 Block 1 contains a date of the month and an 8 bit link identifier.

Looking at recorded traffic I noticed an interesting pattern that is best explained with a table …….. *overleaf*

Frame Byte Number	Bits
14	UUUUDDDD
15	GGGGHHHH
16	UUUUDDDD
17	GGGGHHHH
18	UUUUNNNN
19	GGGGHHHH
20	UUUUNNNN

Where the letters (U,D,G,H and N here) represent the bits that make up the different fields. You can see how these bits are spread across the transmission. For example if you have a 16 bit field then the first 4 bits (called a nibble) are sent then 12 bits from other fields , another 4 bits then 12 more bits from other fields then 4 more bits and so on. The usual reason for doing this (which is often called interleaving) is that if there is a brief burst of interference not all the bits in a field will be lost just a small number of bits in each field. When this is done in conjunction with a mathematical technique called error correction then these single bit errors can be detected and corrected by the receiving station. I am fairly sure that the FSK200/1000 data blocks do have some kind of error correction but sadly I have yet to understand it.

So what I have decoded so far. Well in block 1 we have the following ..

The MSB nibbles (4 bits) of bytes 6,8,10,12 appear to make up a message type or perhaps a message priority indicator. I think they have a similar function to the 11177 message group that appears in many Russian diplomatic messages. Values seen so far are ..

02409	Only seen in the 02:00 schedule
07104	Only seen in “special” link ID 00000 messages
07144	Only seen in the 02:00 schedule
07145	The most common seen in most schedules I monitor

This confirms my belief that the 02:00 schedule (monitored daily by Daniel who I owe many thanks) is different to the other FSK200/1000 schedules we monitor. It doesn’t change frequency monthly and its traffic levels remain strictly within a certain range.

Next I found that what appears to be in the link ID or recipient of the messages which I thought was just an 8 bit number but which I have found is in fact 16 bits. These are the MSB nibbles of bytes 14,16,18 and 20. IDs seen so far include ..

00000	Only seen on short lived schedules
20501	Sunday 15:30 and Tuesday 17:00
32799	Used to appear on 14:00 weekday sendings not seen recently
36882	Weekends at 11:00
41018	Weekdays at 02:00
45057	Alternate weekends at 09:00 also 21:00 Tuesday
45136	Used to appear on 07:00 weekday sendings not seen recently
45114	Weekends at 08:00
45115	Weekends at 08:00

Note the 08:00 weekend schedule can send messages to either 45114 or 45115. This is the only schedule that has two link IDs.

Another finding is that the LSB nibbles of bytes 18 and 20 make up the message serial number. However I am not yet 100% sure of this finding. Some schedules appear to support this finding as this number increments with each message. Sometimes this isn’t the case , for example the 13th April 09:00 message to 45057 was message number 112 but the 16th April 21:00 message to 45057 was message number 7. So either there were a lot of message between these I have missed or there is something I haven’t understood about this. Other times this message number indicates schedules we have yet to find. For instance the 14th April message to 36882 was message number 20 but the 21st April message was number 22 indicating I missed a message probably during the week. Something else I noticed was that a lot (but not all) 4 block messages were message number 2 and if this was the case the block contained a lot of zeros.

However sometimes these 4 block message contained other message numbers that increment. This makes me think that a 4 block message with message number 2 is in fact a null message while a 4 block message with another message number is a short message. So from now on we can no longer assume that a 4 block message is a null.

Also I have found that the high nibbles of bytes 7 and 9 make up what I think is the messages group count. I was confused by this initially as I found this number increased in a linear fashion along with the number of blocks in a message. But then when a message contained over 50 blocks the group count appeared to get smaller. At this point I have found that MSB nibble of byte 12 in block 0 shows how many messages the transmission contains. Generally speaking transmissions with over 50 blocks contain more than 1 message and the group count in block 1 is just the group count of the first message. I have yet to work out how these multiple messages are packed together however so at the moment you will only see the header for the first message in the transmission.

The one thing I have yet to find is how the actual encrypted body of the message is encoded. It could well be 5 number groups or it could be something else. The group count should give us a clue about this and if anyone wants to spend anytime looking into this then please let me know what you find out.

Sometime in early May 2013 I will be releasing Rivet build 61 which will incorporate this new information. As a result FSK200/1000 decodes will look something like this ..

Block No 0 : Total Message Size 15 blocks : This transmission contains one message.
7d,12,b0,e6,00,00,00,00,10,00,c0,00,10,00,00,00,00,07,20,08,00,0f,00,04,00,0d,c0,0e,50,0c,00,05,40,01,90,01
Block No 1 : Link ID 45057 : 12th of month : Msg Number 112 : Msg Type 07145 : Group Count (?) 89
39388 06998 51108 29792 49814 36830 64813 64038

Note that the numbers that appear under block no 1 are other bytes that appear in the block which I am displaying as 5 digit (16 bit) numbers. I have no idea how they should be displayed and if this is correct. However I have found that 4 block null messages decode like this ..

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.
7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,18,60,0c,00,0c,00,18,c0,1f,c0,0e,f0,06,e0,1c,40,1f,20,10
Block No 1 : Link ID 20501 : 14th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
48908 00000 00000 01493 12857 33868 00893 42254

Note the two 00000 groups. These appear in all 4 block null messages which makes me think that they at least are correct. The other numbers may well be a part of block 1s checksum and aren't part of the actual message.

Something else of interest I found when looking into these 4 block groups was that the null ones (that are message number 2) also repeat from time to time. For example in the Sunday 15:30 slot (link ID 20501) the message sent on 3rd March 2013 was the same as it sent on 3rd February 2013. Again further confirmation that these are just null messages with no meaning.

In news of other modes the Saturday 12:00 FSK200/500 schedule on April 13th 2013 actually sent a message rather than a null. The message consisted of 85 lines of numbers such as ..

43334065572074736 =80210
33581696584845596 =86111
39461444065593481 =86312
73259711668324742 =82213
98072034157970847 =87814
38723023512791171 =75515
26584762932743377 =82116
322599614624543118=82017
743146184385291181=85918
08700290520043799 =83419

Note how the last two numbers on each line are the line number. This schedule only sends a message once or twice a year and has a habit of doing this when conditions are poor making the decode unreliable however on the 13th the sending was strong and noise free allowing Rivet to make a good decode.

I'm also continuing to log CROWD36 (SERDOLIK) transmissions. Sprectre logged activity from this mode 14656 KHz at 13:00 on 6th March 2013.

No further news on the POL FSK mode I reported on in my last desk report I'm afraid. The frequencies used by this mode changed in February and I haven't been able to find them since.

Also there are a couple of new data modes detailed of which have appeared on Leif Dehio's excellent data modes website which interest me greatly. The first is a 4 tone 150 baud mode that is believed to be used by a Russian government/intelligence agency and the other is a 8 tone 200 baud mode which probably has the same user. If you hear either of these please let me know.

That's all from me for now. Please keep a look out for an announcement on the release of Rivet build 61.

Ian (ianwraith@gmail.com)

One CROWD 36 log:

12149kHz 0937z 16/04[In Progress] 0938z Fair QRN3 QSB2 Spectre TUE

PoSW's Items of Interest in the Media:-

That's the way to make money:- And he almost got away with it. "Fake bomb detectors that made conman £50 million" is the headline in an article in the *Metro* newspaper of 24-April which says, "A conman is facing jail after making £50 million from selling fake bomb detectors to customers including the UN.

James McCormick marketed the device based on a £13 novelty golf ball finder around the world but claims it could bypass 'all known forms of concealment' were 'simply fantastic' a court was told.

'The devices did not work and he knew they did not work,' said Richard Whittam QC, prosecuting.

'Despite the fact that they did not work, people bought them for a handsome but unwarranted profit.' Some of the detectors were sold for £27,000 each and McCormick is thought to have made about £37 million from sales to Iraq alone.

He owned a £3.5 million home in Bath, with other properties in Cyprus and Florida

McCormick supplied the UN peacekeeping force in Lebanon, police in Kenya, the prison service in Hong Kong, the Egyptian army and border control in Thailand, he told the Old Bailey. "I never had any negative results from customers" said the 56-year-old from Somerset. The devices were sold along with training and colour-coded 'sensor cards' for explosives, drugs and humans.

There is no evidence that he tried to sell to the British Government. Speaking outside court, Detective Superintendent Nigel Rock said conman McCormick had been 'rightly convicted' after a 'far reaching investigation' which lasted up to four years.

McCormick denied three counts of fraud but he was convicted yesterday and will be sentenced on May 2. RECEIVED 10years

Latest news from the Department of Not Enough to Worry About, part of the National Guesswork Authority - likely be of interest to short wave radio enthusiasts. Back in February, the 7th to be precise, the *Metro* newspaper carried a short piece headlined, Solar storm could blow out the lights" which said, "Britain needs to improve its defences against a solar super storm which could trigger blackouts and knock out communication satellites, according to scientists.

Our power networks are vulnerable even though experts admit it is impossible to predict when a super storm – an explosion of protons and plasma from the Sun which has not happened since 1859 - could hit the planet.

Scientists say Britain is better prepared than many other countries but the electricity grid, satellites and GPS systems controlling navigation for aircraft are at risk, according to a report by the Royal Academy of Engineering.

Prof Paul Cannon, from the academy, said: 'The biggest concern is the electricity network because it's so important for everything. There might be transformer damage that could potentially take weeks to sort out. GPS might well go down for between one and three days.'

He added, 'Our message is; Don't panic, but do prepare - a solar super-storm will happen one day and we need to be ready for it.' "

And this same subject turned up in a programme on the BBC's Radio 4, one of the few parts of the Corporation's output run by grown-ups for grown-ups, on 25-April. The programme "Solar Max" was presented by astronomer Lucy Green and was an investigation into the effects on today's technology which would result from the kind of scenario described in the article in the *Metro*. Mention was made of an event in March 1989, a relatively modest solar storm which caused widespread disruption to the electricity grid in Quebec, Canada. Apparently we are now approaching the "solar max" of the sun's 11-year cycle, bringing with it the risk of disruption. All to do with "coronal mass ejection" and solar flares interacting with the earth's magnetic field. There was mention of the events of 1859, known as the "Carrington event", named after an English astronomer who observed the solar flare, and the following geomagnetic storm which induced electrical currents into the copper lines of the newfangled telegraph system which caused overloads in the equipment resulting in fires and other damage and electrocution of telegraph operators. With much more dependence on technology these days there is concern that if this happened again, with the electricity grid, satellites, avionics and GPS navigation all likely to be hit.

Better not turn off those airport Non Directional Beacons sending their three letter Morse identification in the "no man's land" between the LF end of the medium wave band and the long waves, then - I notice that "CAM" from Cambridge Airport is still going on about 332 kHz.

And let's hope it doesn't burn out all the field effect transistors in the front ends of our radios! **SEE DIAGRAM Page 93**

"Now then, now then guys and gals" - one of the catch phrases of the deceased, and now disgraced, "disc jockey" and show business personality Jimmy Savile. Regarded as a hero of the first order during his lifetime because of his fund-raising activities for various charities he is now, following his death a couple of years ago and the revelations of his predatory sexual activities, now completely regarded with disgust.

There have been rumours for years about a paedophile ring involving individuals at the highest levels of society operating in the UK involving well-known names from the world of entertainment, politics, the aristocracy and so on. Our Jimmy was well known for his good works at various hospitals and similar institutions around the UK and he raised millions of pounds for them from the various charitable enterprises he organised. It now turns out that he combined this with an energetic sex life with those inmates that took his fancy. It is not believable that the people in charge of these places did not know what was going on. Savile was closely liked with many important persons in the world of politics; he was known to be a vocal supporter of the Conservative Party. And all this may tie in with the murky world of intelligence; it has been said that Savile was part of a paedophile ring which is in some way connected with one of the most tragic events of recent times, known as the "Dunblane Massacre" which occurred in March 1996 when an individual by the name of Thomas Hamilton made his way into a school in the Scottish town of Dunblane equipped with several handguns with which he proceeded to shoot 16 children and one schoolteacher before turning a gun on himself. At that time the ownership of guns in the UK was severely restricted although it was possible to do so provided one met certain requirements, such as being of good character, belonging to a recognised gun club with facilities for shooting, keeping the guns in locked secure cabinets separate from the ammunition and so on. Hamilton was known, to use the popular expression, "as something of a weirdo"; he was suspected of having paedophile tendencies and had tried without success to become involved with the Boy Scouts movement. What is interesting is that Hamilton was said to have close links with the Scottish Labour Party and that a senior member of that organisation had stood as a character reference when he applied for his firearms licence. It has also been said that he was a Freemason in the same lodge as several important Scottish politicians - Freemasonry has always been an important aspect to political life in Scotland.

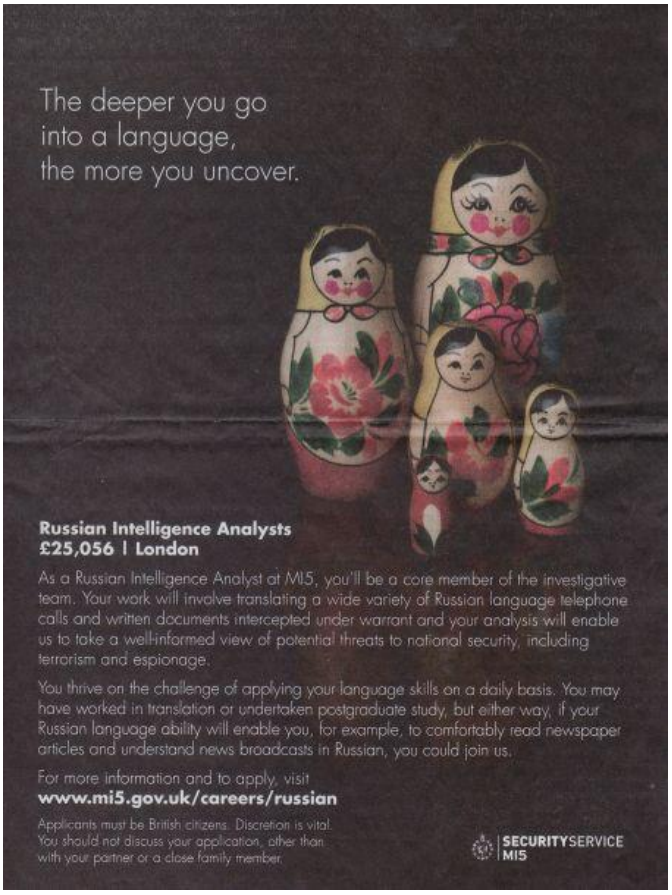
The upshot of all this was that the government was able to totally disarm the British people. A law was rushed through Parliament to outlaw the private ownership of all handguns; those who had hitherto owned them legally had to hand them in with minimal compensation. I remember a story in my local paper at the time about a handgun owner who was something of an American history enthusiast and owned several Samuel Colt revolvers which he had to give up. What has contributed to the conspiracy theories surrounding all this is the fact that much of the information which subsequently came to light has been locked away and may not be made public until 100 years after the event.

And a comment regarding E2K issue 75 - page 76....."Britain is full of officious pricks with Hi Vis jackets.....". Yes, a similar thing happened to a friend of mine at Harlow Town railway station a few weeks ago. He was waiting for his train when his attention was drawn to a shiny new diesel-electric locomotive parked at one of the platforms with the engine idling. Being a rail enthusiast he thought it would make a nice photograph but as he aimed his camera phone he was accosted by two, yes, two of these Volks Polizei types. In the ensuing conversation it was suggested that he was on a reconnaissance mission connected with the theft of electric cables. It is true that the theft of electric cables from the track-side of the rail network are on the increase, along with telephone cables out in the quieter rural parts of the country to say nothing of roadside cast iron inspection covers and drain grills - even brass plaques embossed with the names of the dead have been stolen from war memorials, all stolen for the scrap value and the latest targets are the catalytic converter exhaust systems from up-market cars. These contain precious metals and are seemingly easily removed by a few minutes work with a hacksaw in the wee small hours of the morning.

The point is that the government could stop this in short order if they really wanted to; if a scrap metal dealer is found with any of this stuff in his yard and it can be proven it has been stolen his business should be immediately closed down, all assets seized and the individual concerned should be given a stiff prison sentence and forbidden to engage in that business again. They might even consider a new crime of "economic sabotage" because that is what it amounts to when businesses in rural locations lose their phone and internet connections, so vital for modern commerce, because the cables have been stolen.

Thanks Peter!

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



Two language jobs here, one advert asking for Mandarin, apparently on behalf of MI5 and MI6, the other for MI5, just Russian
Thanks to 'E' for these two and the other, full page, offering that appears later and which will make you think about immigration in Britain.
I'm not a racist but something stinks here. [Thanks 'E']

Taken from the Metro Newspaper [also seen in the Evening Standard] of Thursday, 14th March 2013.

Daily Telegraph: Alice Philipson: 11:56AM GMT 06 Mar 2013

I'm not an MI6 spy says Archbishop of Canterbury

It is a scenario straight from the novels of John Le Carre: the head of the Church of England has a secret past smuggling in cold war Europe, briefing US state department officials on rebels in the Niger Delta and chatting to the future head of MI6 in Baghdad.

This morning, as the intriguing story of the Archbishop of Canterbury's career in some of the world's most dangerous countries emerged, Lambeth Palace laughed off suggestions he may have been working for the Secret Intelligence Service. It is widely known that Justin Welby regularly embarked on Anglican peace missions in the Niger Delta but today further details of his unconventional path emerged. It is understood that on four occasions during the past seven years the Archbishop briefed US officials about his time in Nigeria. His trips to the country were difficult and dangerous. On one occasion Dr Welby, an old Etonian, was arrested at gunpoint and only released when the Nigerian government intervened. He was regularly blindfolded by al-Qaeda militants as he was led into the dangerous creeks of the delta. Three times he called his wife and told her 'I love you' because he believed he was about to be killed.

"Three times he phoned Caroline to say 'I love you and it's looking very dicey'," a close friend told the Times."He thought he was going to be killed On one of the occasions a leader was actually overheard saying: 'Take them out and kill them.'" The Archbishop, 57, is known to have met and shaken hands with Sir John Sawers in Baghdad following the invasion by American and British troops in 2003. They are said to have talked for five minutes, and the pair were photographed together after Welby conducted a service at St George's Anglican church in the Iraqi capital. Sir John, a former Ambassador to Egypt, was Britain's Special Representative to Iraq. He would later head the British team when negotiating over Iran's nuclear programme and before becoming chief of MI6 in 2009. The two men then met again in Baghdad when the Archbishop was there to open an Anglican church and shook hands an spoke for several minutes, according to friends. As a young man Dr Welby and his wife volunteered to smuggle Bibles behind the Iron Curtain to Communist-controlled Romania and Czechoslovakia. A camper van lent to them by the Dutch-based East European Bible Mission contained secret compartments and a false floor to hide the Bibles. It was there that the couple were taught code and how to memorise maps so they could organise secret meetings with fellow Christians. Their training extended to resistance techniques when in case they were caught and interrogated. The Archbishop worked in the oil industry for more than a decade reportedly applied for the diplomatic service after reading law and history at Trinity College, Cambridge. It was reported the Archbishop applied for the Diplomatic service, but, he claimed "messed up the form three times". Such a career path, and a clear ability to keep his head in trouble spots, might suggest the Archbishop would be a useful asset to British intelligence. However, a spokesman for Lambeth Palace said today: "The Archbishop does not work for MI6 and never has done. He has never had any association with them."

Infinite Unknown.Net 10 Mar 2013

UK Journalists Worked As Spies For MI6

Several high-profile British journalists have collaborated with Britain's secret intelligence agency MI6 during the Cold War, a new investigation shows. According to a BBC Radio 4's Document programme called "The 'secret agents' of the UK press", reports by a Soviet newspaper 45 years ago of "leaked" MI6 documents revealing the agency's links with leading British newspapers were probably genuine. In December 1968, the Russian newspaper Izvestia published a series of articles accusing senior journalists in the UK of being spies, listing their names and alleged codenames. The paper said journalists and editors at the Observer, the Sunday Times, the Daily Telegraph, the Daily Mail and the BBC worked secretly with MI6. At the time, the claims were dismissed by all the newspapers and journalists concerned. The head of the BBC's External Service described the articles as "a fantastic example of secret police propaganda". However, the BBC investigation by Jeremy Duns, which was aired earlier this week, suggested the documents were probably genuine and revealed how British spies used journalists to gather information. The programme found the format and language of the documents published in the Russian paper were true, but establishing whether they were genuine was difficult, as MI6 has released no relevant files and all the people named are now dead. The programme also discovered a redacted memo in the BBC archives dated April 24, 1969, which expressed sympathy for "friends caught up in the scandal", referring to those working for MI6. Furthermore, the Document programme interviewed a number of people who might know the truth. Espionage historians and former correspondents said that despite all the denials, the memos were genuine. "These are genuine MI6 documents," said Stephen Dorril, author of a history of MI6, adding that former MI6 officer Anthony Cavendish had told him that the agency used journalists in the Cold War. BBC official historian Jean Seaton said the claims about the use of messages and tunes to assist M16 during the post-war period were "certainly plausible BBC style". Phillip Knightley, the former Sunday Times correspondent and espionage journalist, said, "It doesn't surprise me. I had heard these names before banded around on Fleet Street."

Thanks Spectre

Councillor faces explosives charges
Updated: 22 April 2013 13:50 | By pa.press.net
http://news.uk.msn.com/uk/councillor-faces-explosives-charges

Bomb disposal experts searched a house in Denbigh, North Wales

A town councillor has been charged in connection with a series of suspected explosive incidents which saw residents in a Welsh town evacuated from their homes, police said.

A man and woman were arrested by detectives in Denbigh, Denbighshire, as part of the probe into a series of incidents where objects were ignited in the town, North Wales Police said. The incidents led to windows being broken and cars being damaged.

North Wales Police confirmed that John Larsen, 46, from Lenten Pool, Denbigh, has been charged with causing an explosion likely to endanger life or damage property. Larsen, who sits on Denbigh Town Council and represents the central ward, is due to appear at Prestatyn Magistrates' Court later.
A police spokesman said: "The 46-year-old man arrested on Friday April 19 in connection with a series of incidents in Lenten Pool, Denbigh, has been charged with an offence of causing an explosion likely to endanger life or damage property. John Larsen, of Lenten Pool, Denbigh, has been refused bail to appear before Prestatyn Magistrates' Court on Monday April 22."

A 40-year-old woman also arrested has been released on bail pending further inquiries, police added.

Residents in Lenten Pool were asked to leave their homes on Friday night and again on Saturday as police and an Army explosives ordnance disposal (EOD) unit completed a search of a house. The residents were allowed to return home on both occasions after spending several hours in a rest centre at the town hall.
North Wales Police said the investigation related to "a series of incidents whereby objects have been ignited".

Councillor Colin Hughes, who represents the upper ward on the town council, said he was "absolutely flabbergasted", adding: "I am shocked. Myself and a number of my colleagues are really rocked to the foundations."

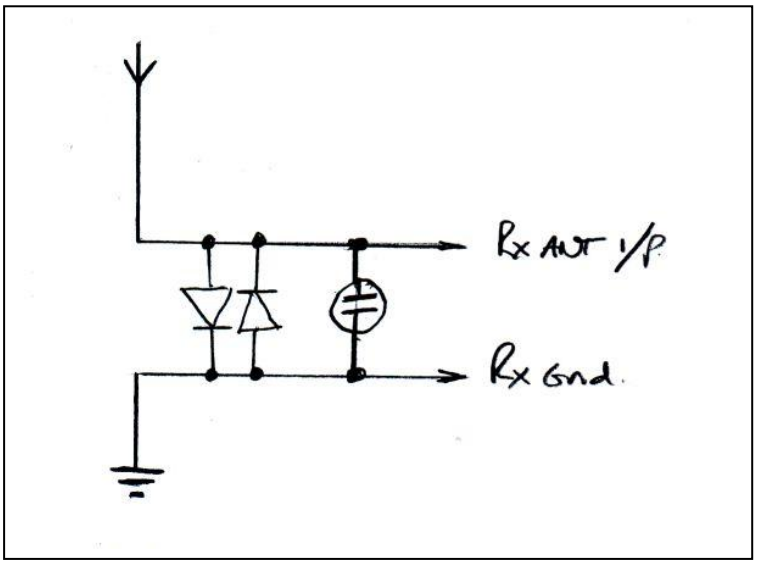
Mr Hughes said he would like to pay tribute to the way the situation was dealt with by the emergency services and the volunteers who came together over the weekend to help the evacuation.

A spokesman for Denbigh Town Council declined to comment.

http://news.uk.msn.com/uk/councillor-faces-explosives-charges

Thanks Gary

Solar Storms, lightning, EMP etc, etc, etc



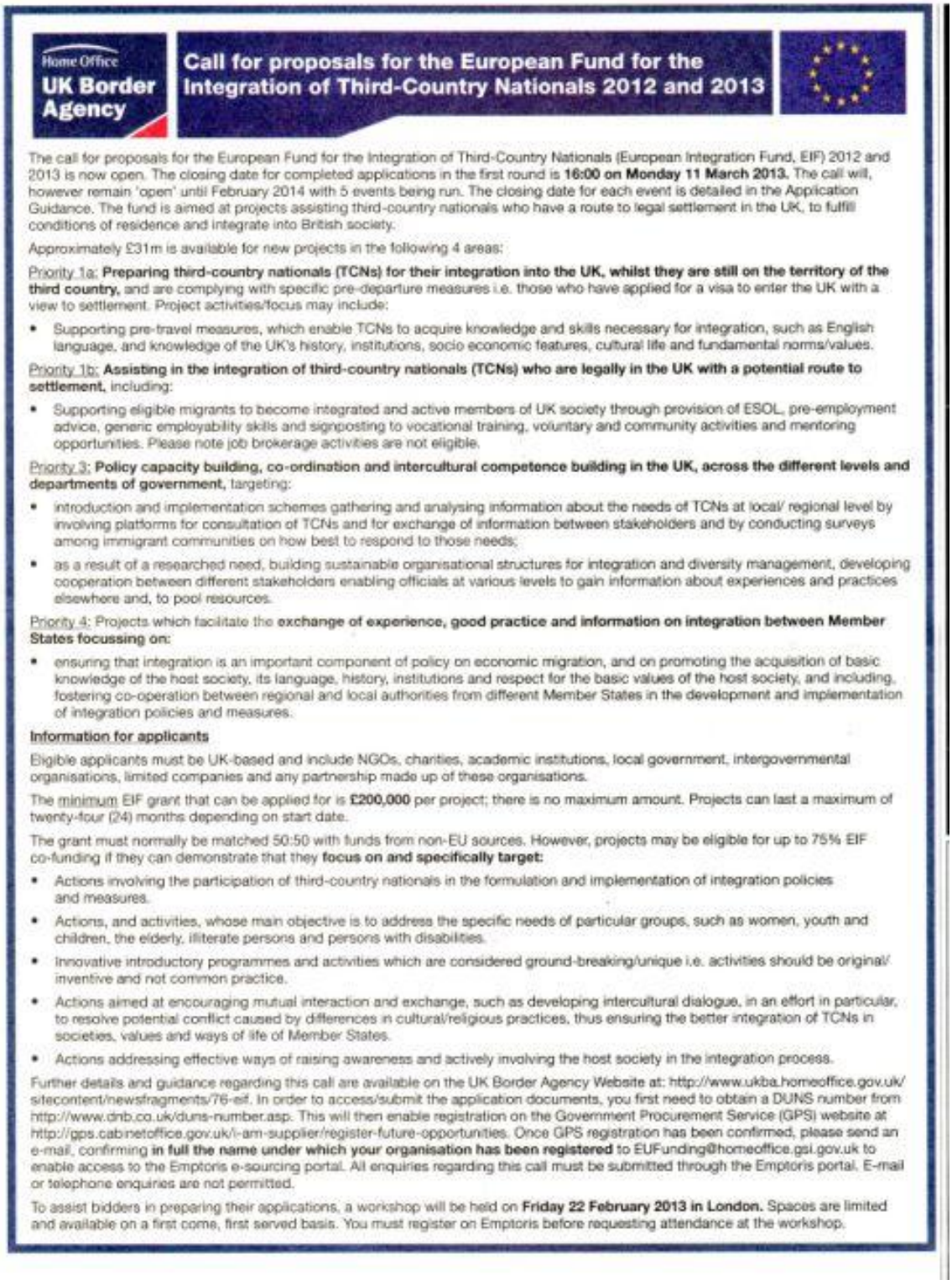
A quicky to give some protection to pulses etc to the front ends of receivers; this little circuit can be built into a metal box with a connector of your choice.
I prefer BNC over the PL259/SO239 or N plugs/sockets and my versions of these are built square Eddystone Boxes.

The diodes should be Si types and thw 1N4148 or 1N914 and 1N4001 types will be suitable.

The Neon tube is an after thought as it is often seen on the same circuit from US circles. The Neon I use is a mains indicating type and ordered from Rapid Electronics of Colchester. Of course you can buy proper GaAs Surge Protectors but I'm sure that the neon, whilst not as quick, would absorb any residule energy just as well. If you gut a piece of kit for its mains indicating neon remove the series resistor.

I have several of these devices fitted on my receivers wherever they work.

I'm not sure about the suitability of their use on VHF/UHF receivers; for that I have a commercial protection device intended for a cellular installation I once worked on. I suspect that within the rather nice spun aluminium case there is a GaAs Protector.



Home Office
UK Border Agency

Call for proposals for the European Fund for the Integration of Third-Country Nationals 2012 and 2013

The call for proposals for the European Fund for the Integration of Third-Country Nationals (European Integration Fund, EIF) 2012 and 2013 is now open. The closing date for completed applications in the first round is **16:00 on Monday 11 March 2013.** The call will, however remain 'open' until February 2014 with 5 events being run. The closing date for each event is detailed in the Application Guidance. The fund is aimed at projects assisting third-country nationals who have a route to legal settlement in the UK, to fulfill conditions of residence and integrate into British society.

Approximately £31m is available for new projects in the following 4 areas:

Priority 1a: **Preparing third-country nationals (TCNs) for their integration into the UK, whilst they are still on the territory of the third country,** and are complying with specific pre-departure measures i.e. those who have applied for a visa to enter the UK with a view to settlement. Project activities/focus may include:

- Supporting pre-travel measures, which enable TCNs to acquire knowledge and skills necessary for integration, such as English language, and knowledge of the UK's history, institutions, socio economic features, cultural life and fundamental norms/values.

Priority 1b: **Assisting in the integration of third-country nationals (TCNs) who are legally in the UK with a potential route to settlement,** including:

- Supporting eligible migrants to become integrated and active members of UK society through provision of ESOL, pre-employment advice, generic employability skills and signposting to vocational training, voluntary and community activities and mentoring opportunities. Please note job brokerage activities are not eligible.

Priority 3: **Policy capacity building, co-ordination and intercultural competence building in the UK, across the different levels and departments of government,** targeting:

- introduction and implementation schemes gathering and analysing information about the needs of TCNs at local/ regional level by involving platforms for consultation of TCNs and for exchange of information between stakeholders and by conducting surveys among immigrant communities on how best to respond to those needs;
- as a result of a researched need, building sustainable organisational structures for integration and diversity management, developing cooperation between different stakeholders enabling officials at various levels to gain information about experiences and practices elsewhere and, to pool resources.

Priority 4: Projects which facilitate the **exchange of experience, good practice and information on integration between Member States focussing on:**

- ensuring that integration is an important component of policy on economic migration, and on promoting the acquisition of basic knowledge of the host society, its language, history, institutions and respect for the basic values of the host society, and including, fostering co-operation between regional and local authorities from different Member States in the development and implementation of integration policies and measures.

Information for applicants

Eligible applicants must be UK-based and include NGOs, charities, academic institutions, local government, intergovernmental organisations, limited companies and any partnership made up of these organisations.

The minimum EIF grant that can be applied for is **£200,000** per project; there is no maximum amount. Projects can last a maximum of twenty-four (24) months depending on start date.

The grant must normally be matched 50:50 with funds from non-EU sources. However, projects may be eligible for up to 75% EIF co-funding if they can demonstrate that they **focus on and specifically target:**

- Actions involving the participation of third-country nationals in the formulation and implementation of integration policies and measures.
- Actions, and activities, whose main objective is to address the specific needs of particular groups, such as women, youth and children, the elderly, illiterate persons and persons with disabilities.
- Innovative introductory programmes and activities which are considered ground-breaking/unique i.e. activities should be original/ inventive and not common practice.
- Actions aimed at encouraging mutual interaction and exchange, such as developing intercultural dialogue, in an effort in particular, to resolve potential conflict caused by differences in cultural/religious practices, thus ensuring the better integration of TCNs in societies, values and ways of life of Member States.
- Actions addressing effective ways of raising awareness and actively involving the host society in the integration process.

Further details and guidance regarding this call are available on the UK Border Agency Website at: http://www.ukba.homeoffice.gov.uk/sitecontent/newsfragments/76-eif. In order to access/submit the application documents, you first need to obtain a DUNS number from http://www.dnb.co.uk/duns-number.asp. This will then enable registration on the Government Procurement Service (GPS) website at http://gps.cabinetoffice.gov.uk/i-am-supplier/register-future-opportunities. Once GPS registration has been confirmed, please send an e-mail, confirming **in full the name under which your organisation has been registered** to EUFunding@homeoffice.gsi.gov.uk to enable access to the Emptoris e-sourcing portal. All enquiries regarding this call must be submitted through the Emptoris portal. E-mail or telephone enquiries are not permitted.

To assist bidders in preparing their applications, a workshop will be held on **Friday 22 February 2013 in London.** Spaces are limited and available on a first come, first served basis. You must register on Emptoris before requesting attendance at the workshop.

Read this nonsense above --- trying to cut down on immigration? Read Priority 1a when HMG tells us that those without English Language won't be coming in! [Thanks E, a true eyeopener indeed]

Chart Section Index

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	pi¹tka	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	May kHz, ID, ...	Jun 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	14460/16170 460	14710/16240 348
		x					0530/0540		S06S	01A	11435,12650 153	11435,12650 153
x							0530/0550/0610		M12	01B	6857/ 7557 850	6857/ 7557 850
		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, search	8720/10415 934, search
				x			0600/0610		S06S	01A	7845/ 9125 196	7845/ 9125 196
			x				0630/0650/0710		M12	01B	7984/ 9184/ 911, search	7984/ 9184/ 911, search
	x		x				0645		E11	03	13424 517/00	13424 517/00
						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		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		0800/0820/0840		E07A	01B	12177/13477/14877 148	13373/14373/ 338, search
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
		x					0840/0850		S06S	01A	10120/ 9670 328	10120/ 9670 328
x		x					0900		E11	03	13427 534/00	13427 534/00
			x		x		0900		E11	03	4909 248/00	4909 248/00

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	May kHz, ID, ...	Jun kHz, ID, ...
			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	6410/ 7340 893	 893, search
		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	16125(?) 576/00, search	16125(?) 576/00, search
	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	 214, search	 214, search
		x	x			x	1155		E11	03	16335 718/00	16335 718/00
			x				1200/1210	?	G06	01A	 215, search	 215, search
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	 215, search	 215, search
x	?						1300/1320/1340		M12	01B	14372/13472/11472 344	14524/13524/11524 555
			x		x		1310/1330/1350		M12	01B	13926/12126/10926 919	13873/13373/11473 834
			x			x	1320		M03	03	7837 437/00	7837 437/00
				x	x		1325		G11	03	5815 299/00	5815 299/00

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	May kHz, ID, ...	Jun kHz, ID, ...
				x		x	1420		M03	03	13911 879/00	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	14492/13392/12126 344	14964/13372/12164 555
	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							1600/1610		S06S	01A	9256/ 7889 176	9256/ 7889 176
		x					1600/1620/1640		M12	01B	12162/11561/10711 546	12162/11561/10711 546
				x			1600/1620/1640		M12	01B	10343/ 9264/ 8116 124	10343/ 9264/ 8116 124
x							1700	1/2	G06	01A	564, search	564, search
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	13388/12088/10188 301	13468/12141/10436 414
			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	10438/ 9938/ 9138	10438/ 9938/ 9138
	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	564, search	564, search
	x		x				1800		M01	14	5280 025	5280 025
x							1800/1820/1840		M12	01B	9176/ 7931/ 6904 257	9176/ 7931/ 6904 257

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	May kHz, ID, ...	Jun kHz, ID, ...
			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	15835/13490 426	15910/13585 832
	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 12217/10617/ 9317 938	new sked, search ex 10843/ 9243/ 7843 828
			x				1832		M01B	14	5095, 5760 815	5095, 5760 815
x			x				1900 (1905)		S06	01A	7982 (6984) 349	7982 (6984) 349
x		x					1900/1920/1940		E07	01B	14812/13412/11512 845	15824/14624/13524 865
x			x				1900/1920/1940		M12	01B	9176/ 7931/ 6904 257	9176/ 7931/ 6904 257
	x		x				1900/1920/1940		XPA	01B		
				x	x		1900/2000	1/3	M14	01A	9060/ 8180 724, search	9060/ 8180 724, search
					x		1900/2000	1/3	S06	01A	319, search	319, search
					x		1900/2000	1/3	S06	01A	857, search	857, search
				x			1902		M01B	14	5075, 5465 336	5075, 5465 336
x							1915		M01B	14	5150, 5475 858	5150, 5475 858
		x					1920/2020	2	E06	01A	218, search	218, search
		x					1920	2/4	M14	01A	5932 417	5932 417
	x		x				1925		E11C	03	10487 758/####/00	10487 758/####/00
				x			1930	2/4	G06	01A	5943 218	5943 218
					x		1930 (1935)		S06	01A	426, search	426, search
			x				1942		M01B	14	5065, 5805 936	5065, 5805 936
	x						2000		E11C	03	8102 757/####/00	8102 757/####/00

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	May kHz, ID, ...	Jun kHz, ID, ...
				x			2000		E11	03	9150 576/00	9150 576/00
				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/ 9388 553	12213/10714/ 9347 273
			x				2030	1/3	E06	01A	5948 724	5948 724
		x					2100/2120/2140		M12	01B	9241/ 7541/ 6841 258	9986/ 9086/ 903, search
		x			x		2110/2130/2150		M12	01B	14869/13569/12169 851	16269/14669/13369 263
				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 Mar 2013 **Brian - S.E. England**

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Fri 1	1800	10343	1820	9264	1840	8116	124	7075	50
Sat 2	Not	Moni	-tored						
Sun 3	10**10**	14769	10**30**	16269	10**50**	- - -	721	0 0 0	
Mon 4	05**30**	5792	05**50**	6992	06**10**	- - -	796	0 0 0	
	1300	11524	1320	10424	1340	9324	543	5653	191
	1600	12162	1620	11566	1640	10711	546	8845	87
	1700	9176	1720	7931	1740	6904	257	8509	72
	1800	9176	1820	7931	1840	6904	257	4191	64
	1900	9176	1920	7931	1940	6904	257	5599	67
Tue 5	18**30**	10343	18**50**	9264	19**10**	8116	124	5572	69
Wed 6	1500	10968	1520	10168	1540	9128	543	5653	191
	1700	8047	1720	6802	1740	5788	463	6844	54
	18**30**	11435	18**50**	10598	19**10**	9327	938	5306	66
	2200	5763	2220	5163	2240	- - -	714	0 0 0	
Thu 7	07**30**	6784^	07**50**	7684	08**10**	- - -	761	0 0 0	
	10**10**	14769	10**30**	16269	10**50**	18169	721	2060	119
	1700	9176	1720	7931	1740	6904	257	7889	99
	1700	10343	1720	9264	1740	8116	124	5280	77
	1800	10343	1820	9264	1840	8116	124	2294	95
	1900	9176	1920	7931	1940	6904	257	3957	52

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Fri 8	1800	10343	1820	9264	1840	8116	124	5740	71
Sat 9	Not	Moni	-tored						
Sun 10	10**10**	14769	10**30**	16269	10**50**	18169	721	2060	119
	18**30**	14879	18**50**	13479	19**10**	11579	845	9259	123
Mon 11	05**30**	5792	05**50**	6992	06**10**	- - -	796	0 0 0	
	1300	11524	13**21***	10424	13**42***	9324	543	5157	259
	1600	12162	1620	11566	1640	10711	546	2475	84
	1700	9176	1720	7931	1740	6904	257	7451	71
	1800	9176	1820	7931	1840	6904	257	8611	62
	1900	9176	1920	7931	1940	6904	257	4627	91
Tue 12	18**30**	10343	18**50**	9264	19**10**	8116	124	1112	54
Wed 13	1500	10968	15**21***	10168	15**42***	9128	543	5157	259
	1700	8047	1720	6802	1740	5788	463	6609	77
	18**30**	11435	18**50**	10598	19**10**	9327	938	7275	70
	18**30**	14879	18**50**	13479	19**10**	11579	845	5502	177
	2200	5763	2220	5163	2240	- - -	714	0 0 0	
Thu 14	07**30**	6784^	07**50**	7684	08**10**	- - -	761	0 0 0	
	10**10**	14769	10**30**	16269	10**50**	- - -	721	0 0 0	
	1700	9176	1720	7931	1740	6904	257	1623	89
	1700	10343	1720	9264	1740	8116	124	6086	70
	1800	10343	1820	9264	1840	8116	124	2285	100
	1900	9176	1920	7931	1940	6904	257	2910	60

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

*** Time of transmissions offset due to length of message**

M12 Log2 Mar 2013 **Brian - S.E. England**

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Fri 15	1800	10343	1820	9264	1840	8116	124	5750	96
Sat 16	Not	Moni	-tored						
Sun 17	10**10**	14769	10**30**	16269	10**50**	- - -	721	0 0 0	
	18**30**	14879	18**50**	13479	19**10**	11579	845	5502	177
Mon 18	05**30**	5792	05**50**	6992	06**10**	- - -	796	0 0 0	
	1300	11524	1320	10424	1340	9324	543	1078	257
	1600	12162	1620	11566	1640	10711	546	6068	83
	1700	9176	1720	7931	1740	6904	257	6159	80
	1800	9176	1820	7931	1840	6904	257	8318	62
	1900	9176	1920	7931	1940	6904	257	3081	81
Tue 19	18**30**	10343	18**50**	9264	19**10**	8116	124	4274	50
Wed 20	1500	10968	1520	10168	1540	9128	543	1078	257
	1700	8047	1720	6802	1740	5788	463	2757	70
	18**30**	11435	18**50**	10598	19**10**	9327	938	3302	69
	18**30**	14879	18**50**	13479	19**10**	11579	845	4054	89
	2200	5763	2220	5163	2240	4463	714	8588	79
Thu 21	07**30**	6784^	07**50**	7684	08**10**	- - -	761	0 0 0	
	10**10**	14769	10**30**	16269	10**50**	18169	721	1176	271
	1700	9176	1720	7931	1740	6904	257	3345	88
	1700	10343	1720	9264	1740	8116	124	1399	71
	1800	10343	1820	9264	1840	8116	124	5791	98
	1900	9176^	1920	7931	1940	6904	257	6828	63

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Fri 22	1800	10343	1820	9264	1840	8116	124	4100	83
Sat 23	Not	Moni	-tored						
Sun 24	10**10**	14769	10**30**	16269	10**50**	18169	721	1176	271
	18**30**	14879	18**50**	13479	19**10**	11579	845	4054	89
Mon 25	05**30**	5792	05**50**	6992	06**10**	- - -	796	0 0 0	
	1300	11524	1320	10424	1340	9324	543	6781	121
	1600	12162	1620	11566	1640	10711	546	4872	83
	1700	9176	1720	7931	1740	6904	257	6440	77
	1800	9176	1820	7931	1840	6904	257	7922	61
	1900	9176	1920	7931	1940	6904	257	4134	70
Tue 26	18**30**	10343	18**50**	9264	19**10**	8116	124	8245	62
Wed 27	1500	10968	1520	10168	1540	9128	543	6781	121
	1700	8047	1720	6802	1740	5788	463	1029	84
	18**30**	11435	18**50**	10598	19**10**	9327	938	7965	63
	18**30**	14879	18**50**	13479	19**10**	11579	845	5834	193
	2200	5763	2220	5163	2240	- - -	714	0 0 0	
Thu 28	07**30**	6784	07**50**	7684	08**10**	- - -	761	0 0 0	
	10**10**	14769	10**30**	16269	10**50**	18169	721	7510	153
	1700	9176	1720	7931	1740	6904	257	4575	88
	1700	10343	1720	9264	1740	8116	124	2325	74
	1800	10343	1820	9264	1840	8116	124	2683	90
	1900	9176	1920	7931	1940	6904	257	1106	67

Highlighted cell indicates new or changed loggings

- - - Indicates no 3rd transmission sent as message 0 0 0

^ Weak reception NH Not Heard NF Not Found

M12 Log1 Apr 2012 **Brian - S.E. England**

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Mon 1	04**30**	5792	04**50**	6992	05**10**	- - -	796	0 0 0	
	1300	14964	1320	13972	1340	12164	991	5703	181
	1600	12162	1620	11566	1640	10711	546	6352	75
	1700	9176	1720	7931	1740	6904	257	8380	70
	1800	9176	1820	7931	1840	6904	257	6922	61
	1900	9176	1920	7931	1940	6904	257	7554	85
Tue 2	18**30**	10343	18**50**	9264	19**10**	8116	124	4046	64
Wed 3	1500	13918	1520	12218	1540	10748	991	5703	181
	1700	8047^	1720	6802	1740	5788	463	6708	86
	18**30**	11435	18**50**	10598	19**10**	9327	938	4852	57
	18**30**	14879	18**50**	13479	19**10**	11579	845	9916	103
	2100	6793	2120	5893	2140	- - -	785	0 0 0	
	21**10**	11469	21**30**	10469	21**50**	9169	441	3783	71
Thu 4	06**30**	7484	06**50**	8084	07**10**	- - -	402	0 0 0	
	1700	9176	1720	7931	1740	6904	257	8030	89
	1700	10343	1720	9264	1740	8116	124	4464	71
	1800	10343	1820	9264	1840	8116	124	2726	91
	1900	9176	1920	7931	1940	6904	257	8821	62
Fri 5	1800	10343	1820	9264	1840	8116	124	6824	99
Sat 6	21**10**	11469	21**30**	10469	21**50**	9169	441	3783	71
Sun 7	18**30**	14879	18**50**	13479	19**10**	11579	845	9916	103

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Mon 8	04**30**	5792	04**50**	6992	05**10**	- - -	796	0 0 0	
	1300	14964	1320	13972	1340	12164	991	826	203
	1600	12162	1620	11566	1640	10711	546	6486	88
	1700	9176	1720	7931	1740	6904	257	7607	78
	1800	9176	1820	7931	1840	6904	257	1989	65
	1900	9176	1920	7931	1940	6904	257	1283	85
Tue 9	18**30**	10343	18**50**	9264	19**10**	8116	124	6073	66
Wed 10	1500	13918	1520	12218	1540	10748	991	826	203
	1700	8047	1720	6802	1740	5788	463	6390	91
	18**30**	11435	18**50**	10598	19**10**	9327	938	6836	70
	18**30**	14879	18**50**	13479	19**10**	11579	845	3074	193
	2100	6793	2120	5893	2140	- - -	785	0 0 0	
	21**10**	11469	21**30**	10469	21**50**	9169	441	8475	125
Thu 11	06**30**	7484	06**50**	8084	07**10**	- - -	402	0 0 0	
	1700	9176	1720	7931	1740	6904	257	3796	96
	1700	10343	1720	9264	1740	8116	124	4600	72
	1800	10343	1820	9264	1840	8116	124	4987	98
	1900	9176	1920	7931	1940	6904	257	5264	64
Fri 12	1800	10343	1820	9264	1840	8116	124	6568	82
Sat 13	21**10**	11469	21**30**	10469	21**50**	9169	441	8475	125
Sun 14	18**30**	14879	18**50**	13479	19**10**	11579	845	3074	193

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 Apr 2012 **Brian - S.E. England**

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Mon 15	04**30**	5792	04**50**	6992	05**10**	- - -	796	0 0 0	
	1300	14964	1320	13972	1340	12164	991	2272	191
	1600	12162	1620	11566	1640	10711	546	4715	99
	1700	9176	1720	7931	1740	6904	257	8545	79
	1800	9176	1820	7931	1840	6904	257	1341	61
	1900	9176	1920	7931	1940	6904	257	7578	92
Tue 16	18**30**	10343	18**50**	9264	19**10**	8116	124	8959	66
Wed 17	1500	13918	1520	12218	1540	10748	991	2272	191
	1700	8047^	1720	6802	1740	5788	463	4817	94
	18**30**	11435	18**50**	10598	19**10**	9327	938	5079	53
	18**30**	14879	18**50**	13479	19**10**	- - -	845	0 0 0	
	2100	6793	2120	5893	2140	- - -	785	0 0 0	
	21**10**	11469	21**30**	10469	21**50**	- - -	441	0 0 0	
Thu 18	06**30**	7484	06**50**	8084	07**10**	- - -	402	0 0 0	
	1700	9176	1720	7931	1740	6904	257	8790	95
	1700	10343	1720	9264	1740	8116	124	6298	80
	1800	10343	1820	9264	1840	8116	124	7032	97
	1900	9176	1920	7931	1940	6904	257	5180	66
Fri 19	1800	10343	1820	9264	1840	8116	124	7917	76
Sat 20	21**10**	11469	21**30**	10469	21**50**	- - -	441	0 0 0	
Sun 21	18**30**	14879	18**50**	13479	19**10**	- - -	845	0 0 0	

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Mon 22	04**30**	5792	04**50**	6992	05**10**	- - -	796	0 0 0	
	1300	14964	1320	13972	1340	12164	991	6841	73
	1600	12162	1620	11566	1640	10711	546	2685	80
	1700	9176	1720	7931	1740	6904	257	8373	80
	1800	9176	1820	7931	1840	6904	257	4603	55
	1900	9176	1920	7931	1940	6904	257	1710	72
Tue 23	18**30**	10343	18**50**	9264	19**10**	8116	124	8109	53
Wed 24	1500	13918	1520	12218	1540	10748	991	6841	73
	1700	8047	1720	6802	1740	5788	463	6449	91
	18**30**	11435	18**50**	10598	19**10**	9327	938	7546	54
	18**30**	14879	18**50**	13479	19**10**	11579	845	8063	99
	2100	6793	2120	5893	2140	4593	785	9157	75
	21**10**	11469	21**30**	10469	21**50**	9169	441	6425	83
Thu 25	06**30**	7484	06**50**	8084	07**10**	- - -	402	0 0 0	
	1700	9176	1720	7931	1740	6904	257	3157	91
	1700	10343	1720	9264	1740	8116	124	6297	77
	1800	10343	1820	9264	1840	8116	124	7331	70
	1900	9176	1920	7931	1940	6904	257	6499	53
Fri 26	1800	10343	1820	9264	1840	8116	124	8813	76
Sat 27	21**10**	11469	21**30**	10469	21**50**	9169	441	6425	83
Sun 28	18**30**	14879	18**50**	13479	19**10**	11579	845	8063	99

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 Mar 2013 (Residue)

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Cont…									
Fri 29	1800	10343	1820	9264	1840	8116	124	1385	88
Mar									
Sat 30	Not	Moni	-tored						
Mar									
	UK	change	to	BST		+ 1Hr			
Sun 31	10**10**	14769	10**30**	16269	10**50**	- - -	721	0 0 0	
Mar	18**30**	14879	18**50**	13479	19**10**	11579	845	5834	193

M12 Log2 Apr 2013 (Residue) Brian - S.E. England

Day / Date	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	Time (UTC)	Freq (kHz)	ID	Decode Key	Grp No.
Cont…									
Mon 29	04**30**	5792	04**50**	6992	05**10**	- - -	796	0 0 0	
Apr	1600	12162	1620	11566	1640	10711	546	3772	72
	1700	9176	1720	7931	1740	6904	257	7150	79
	1800	9176	1820	7931	1840	6904	257	1507	61
	1900	9176	1920	7931	1940	6904	257	7263	79
Tue 30	18**30**	10343	18**50**	9264	19**10**	8116	124	8804	70
Apr									

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	Mar kHz, ID, ...	Apr kHz, ID, ...	May kHz, ID, ...	Jun kHz, ID, ...	General Remarks
x							0450		E11	03	6304 416/00	6304 416/00	10800 416/00	10800 416/00	since 02/10, **last log 04/13**
		x		**x**			**0545**		**E11**	**03**	**15915** **348/00**	**15915** **348/00**	**13424** **348/00**	**13424** **348/00**	**since 06/11, last log 04/13**
	x		x				0645		E11	03	10800 517/00	10800 517/00	13424 517/00	13424 517/00	since 07/09, **last log 04/13**
	x			x			0710		E11	03	10221 633/00	10221 633/00	14753 633/00	14753 633/00	since 02/11, **last log 04/13**
	x		x				0745		E11	03	14575 335/00	14575 335/00	15632 335/00	15632 335/00	since 10/11, **last log 04/13**
x			x				0820		E11	03	6814 438/00	6814 438/00	6280 438/00	6280 438/00	since 10/09, **last log 04/13**
x				**x**			0830		E11	03	10690 649/00	10690 649/00	12924 649/00	12924 649/00	since 01/10, **last log 04/13**
x		x					0900		E11	03	9399 534/00	9399 534/00	13427 534/00	13427 534/00	since 10/09, **last log 04/13**
			x		x		0900		E11	03	4909 248/00	4909 248/00	4909 248/00	4909 248/00	since 02/10, **last log 03/13**
	x			x			0915		S11A	03	7317 484/00	7317 484/00	8530 484/00	8530 484/00	since 01/10, **last log 04/13**
x			x				1015		S11A	03	16112 475/00	16112 475/00	16530 475/00	16530 475/00	since 04/10, **last log 04/13**
	x			x			1020		S11A	03	9960 426/00	9960 426/00	11581 426/00	11581 426/00	since 02/10, **last log 03/13**
		x			x		1020		S11A	03	5815 221/00	5815 221/00	5815 221/00	5815 221/00	since 01/09, **last log 04/13**
	x						1045		E11	03	**13873** 576/00	**13873** 576/00	16125(?) 576/00, search	16125(?) 576/00, search	since 01/12, **last log 03/13**
	x	x					1045		E11	03	7449 469/00	7449 469/00	9610 469/00	9610 469/00	since 03/10, **last log 04/13**
x				x			1110		E11A	03	13375 95#/##	13375 95#/##	16388 95#/##	16388 95#/##	since 12/11, **last log 04/13**
	x	x	x				1115		M03	03	9150 272/00 (Tue) & 650/00 (Wed/Thu)	9150 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 03/13**
		x	x			x	1155		E11	03	15915 718/00	15915 718/00	16335 718/00	16335 718/00	since 04/11, **last log 04/13**
			x			x	1320		M03	03	9150 437/00	9150 437/00	7837 437/00	7837 437/00	since 02/11, **last log 04/13**
				x	x		1325		G11	03	5815 299/00	5815 299/00	5815 299/00	5815 299/00	since 03/10, **last log 03/13**
	x				x		1400		E11A	03	13375 98#/00	13375 98#/00			since 10/11, **last log 03/13**
				x		x	1420		M03	03	13911 879/00	13911 879/00	13911 879/00	13911 879/00	since 01/12, **last log 03/13**
		x			x		1445		E11	03	4909 287/00	4909 287/00	4909 287/00	4909 287/00	since 11/10, **last log 03/13**
	x				x		1535		M03	03	6977 798/00	6977 798/00	6524 798/00	6524 798/00	since 11/10, **last log 04/13**
x						x	1540		E11	03	15915 228/00	15915 228/00	16335 228/00	16335 228/00	since 03/11, **last log 04/13**
x				x			1710		E11A	03	5194 95#/##	5194 95#/##	10487 95#/##	564, search	since 11/11, **last log 04/13**
			x				1730		E11	03	9371 416/00	9371 416/00	8088 416/00	564, search	since 03/10, **last log 04/13**
	x					x	1755		G11	03	5815 270/00	5815 270/00	5815 270/00	564, search	since 02/10, **last log 04/13**
	x				x		1810		E11A	03	13455 98#	13455 98#	14518 98#	14518 98#	since 08/12, **last log 04/13**
	x		x				1925		E11C	03	7863 758/####/00	7863 758/####/00	10487 758/####/00	10487 758/####/00	since 08/12, **last log 04/13**
	x						2000		E11C	03	**7863** 757/####/00	**7863** 757/####/00	8102 757/####/00	8102 757/####/00	since 12/11, **last log 04/13**
				x			2000		E11	03	**5371** 576/00	**5371** 576/00	9150 576/00	9150 576/00	since 03/12, **last log 04/13**
				x		x	2000		G11	03	6433 262/00	6433 262/00	3815 262/00	3815 262/00	since 01/11, **last log 04/13**

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Mar kHz, ID, ...	Apr kHz, ID, ...	May kHz, ID, ...	Jun kHz, ID, ...	General Remarks
x							0800		G06	01A	6774 215	6774 215	6948 215	6948 215	since 07/10, **last log 04/13**
			x				**1200/1210**	**?**	**G06**	**01A**	**4526** **215**	**4526** **215**	**215, search**	**215, search**	**since 09/11, last log 03/13**
			x				**1300**	**?**	**G06**	**01A**	**4526** **215**	**4526** **215**	**215, search**	**215, search**	**since 09/11, last log 04/13**
x							1700	1/2	G06	01A	4569 564	4569 564	564, search	564, search	since 04/10, **last log 04/13** yearly changing frequencies + id
x							1800	1/2	G06	01A	5424 564	5424 564	564, search	564, search	since 05/09, **last log 04/13** yearly changing frequencies + id
			x				1830	2/4	G06	01A	5935 579	5935 579	6887 842	6887 842	since 05/01, **last log 04/13**
				x			1930	2/4	G06	01A	5442 947	5442 947	5943 218	5943 218	since 04/01, **last log 04/13** rpt of Thu 1830Z

HM01 Schedule

Freq 1	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
5855	0500	0500	0500	0500		0500	
12120			0500		0500		0500
14375				0500	0500		0500
10345	0600	0600	0600	0600		0600	
14375					0600		0600
9330	0700	0700		0700		0700	
13435			0700		0700		0700
9065	0800	0800		0800		0800	
9240	0900	0900	0900	0900		0900	
12120		0900			0900		0900
9155	1000	1000		1000		1000	
5855	1000	1000	1000	1000		1000	
12180			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	2100
10715	2200	2200		2200		2200	
17480			2200		2200		2200
11530	2300	2300		2300		2300	
17540			2300		2300		2300
							25/04/2013

SPECIAL MATTERS:

Operation Jallaa: 0

MESSAGES:

Thanks E, Excellent stuff indeed.

RELEVANT WEBSITES

ENIGMA 2000 Website:	http://www.enigma2000.org.uk
Frequency Details can be downloaded from:	http://www.cvni.net/radio/
More Info on 'oddities' can be found on Brian of Sussex' excellent web pages:	http://www.brogers.dsl.pipex.com/page2.html
Time zone information:	http://www.timeanddate.com/library/abbreviations/timezones/
Encyclopedia of Espionage, Intelligence, and Security	http://www.espionageinfo.com/

EyeSpyMag! http://www.eyespymag.com