ENIGMA 2000 NEWSLETTER

http://enigma2000group.org

Kanchanaburi War Cemetery
1939 - 1946

Located within reach of the Thai border with Burma [now Myanmar] this cemetery, maintained by the War Grave Commission, is home to the remains of allied servicemen who were used as slave labour by the Japanese Imperial Army

Average age of those interned here is 23

The railway bridge over the River Kwae [spelling correct] a short distance away.

"My father fought in Burma and never, ever spoke about it
My Godfather, used for bayonet practice, died of his wounds in1950
He too had fought in Burma"

ISSUE 103
November 2017

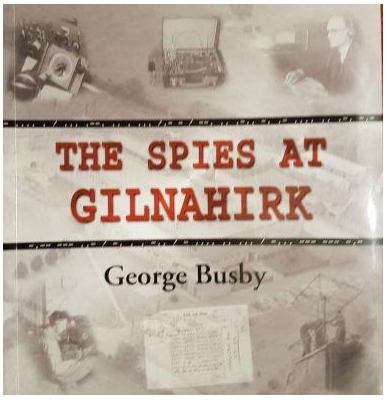
http://www.enigma2000.org.uk

PLEASE NOTE: www.enigma2000.org.uk is the only active domain at our disposal

Editorial

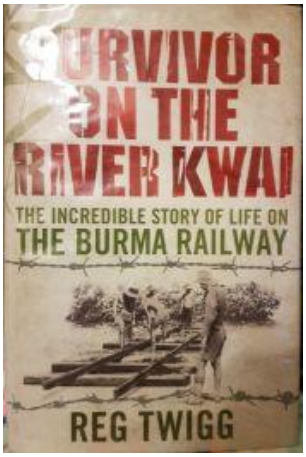
Suffering a serious leg injury whilst in Cambodia last May and undergoing major surgery after my return from Vietnam I had been unable to return to work having accrued more medical certificates and paid sick leave for five months that I had in the previous 49 years of work; a most embarrassing situation.
However, with much time on my hands and unable to sit at the computer I filled my time with reading rather than sitting glued to the TV or the Idiot's Lantern and letting my brain slowly settle.

One book that had been on my bookshelf for sometime was 'The Spies at Gilnahirk' by George Busby. I had purchased a copy and made my mind up to read it when I had time. I was further prompted by its review in the RSGB's organ 'RadCom' of December 2016 pp 42 and 42..



This book reminds the older of us of the smell of valve receivers and the use of a calibrated wavemeter to determine and actual frequency.
But, Mr Busby has performed an excellent job of work researching this most secret location and what went on there before WW2 and ultimately to 1978. He brings to life the activities of the VIs and the types of equipment used and of the techniques to wring the last drop of intel out of a product that was produced at Gilnahirk and elsewhere but seems to have missed the limelight. Those aware of signals interception have always known that without the radio op taking Morse through QRM and dealing with QRN and QSB [and likely suffering tinnitus in later life] the work at Bletchley Park would have not been as successful, if at all. This book sets that fact straight and makes in depth reference to NI VIs.
It's a splendid read and recommended.

This year and before my catastrophic accident I made my second visit to Kanchanburi, Thailand; well aware of the activities of the Imperial Japanese Army and their treatment of allied PoWs I noted the average age of those in the cemetry as 23. Thy died worked to death or from diseases such as dysentry [not recommended, I suffered this when in Aden, Yemen and even with modern drugs took some controlling. It even made a decent return when I was in Guyana but this time easily sorted].
Whilst limping around Bromley Glades shopping centre I saw a paperback in their branch of Waterstones, 'Survivor on the River Kwai' by Reg Twigg. I had read previously read another account, 'The Naked Island' written by Australian Russell Braddon and the account of Lord Russell of Liverpool, 'Knights of the Bushido.' Horrific treatment for those to read.



My own father served in the Royal Signals and fought in Burma; he died aged 93, I was 63 and I had never heard him speak of his service in all my days . My Godfather passed away in 1950, four years after his return from Burma of injuries inflicted on him by the Japanese who briefly used him for a bit of bayonet practice.
This book by Reg Twigg was different and dealt with staying alive against all odds. It also made certain statements about officers [Medical Officers not included] and which illustrated that the film starring Alec Guinness was absolute bollocks. Through my visits to Thailand I learnt that despite the popular name 'Kwai' being displayed on a road sign [doubtless for the farang you understand] the river was renamed Kwae post war for decency's sake, Kwai actually meaning 'cock' and we are not talking cockerel here,
Its worth a read for those who have an interest. I have a hard back copy which slightly varies in text from the paperback version with the words, 'Two weeks after the publication of his work Reg Twigg passed away....'
A recommended read, perhaps moreso because by father and Godfather were involved in what became known as 'the forgotten war' and fought by forgotten soldiers.

I'd also like to thank those who took over production of the newsletter whilst I was unable to do so. A heartfelt thanks to you.

Now onto the Intercepts ……..

The month of September saw the expected seasonal change of frequencies for many number station schedules, generally moving lower as the hours of darkness increase as we move through the autumn season in the northern hemisphere. Short-wave propagation has varied considerably, especially noticeable with those schedules which appear weekly with signal strengths varying from week to week. Conditions were particularly poor on several mornings in early September, for example on the 6th of that month when no strong broadcast stations could be found in the higher BC bands. One does not expect to find much going on in the 49, 41 and 31 metre bands at this time of the day but there are usually several stations in the 16, 19 and 25 metre bands at reasonable strength but on this occasion those which could be heard were very weak as were the several utility and "XJT" noise-makers which are usually to be found at good strength between the BC bands.

Things had recovered when a check was made an hour later.

Some unusual activity noted in October which appeared to be connected to the number station scene in some way:-

13-Oct-17, Friday:- 0713 UTC, 10,320 kHz, S9+ carrier modulated by audio tone of about 1 kHz, not inside a recognised broadcast band so not a BC transmitter check. Went off air several times for a minute or two before returning, was still on at 0808 UTC but had gone when checked at 0816.
0906 UTC, 11,320 kHz, exactly one MHz up on the earlier observation, two-tone repeating,
X06a? With an S9 signal, went off at 0909 UTC.

17-Oct-17, Tuesday:- 0749 UTC, 11,320 kHz, constant carrier keyed audio tone MCW Morse sending numbers on the same frequency noted with X06a on the 13th, short zero, i.e. single dash as favoured by some number stations, slow rate of sending, over S9. Went on for a long time with several breaks going off air and returning after a few minutes. Was still going strong at 1000 UTC when monitoring was halted.
On returning shortly before 1200 UTC 11,320 kHz was still active – but with the X06a two-tones. Checked every 15 to 20 minutes or so, was still going strong at 1330 UTC but had gone at 1350.

18-Oct-17, Wednesday:- 0754 UTC, 10,310 kHz, two-tone repeating on a frequency 10 kHz
down from that noted with the fixed tone on the 13th. Went off air about two minutes after being tuned in.
0901 UTC, 13,320 kHz, 2-tone repeating, over S9, there appears to be a certain pattern to the frequencies used here, went off air for a few minutes before returning on several occasions, another long session, was still on at 1205 UTC but had gone when checked at 1225.

20-Oct-17, Friday:- 0856 UTC, 12,320 kHz, first time noted on this frequency, X06a two-tone repeating, very strong signal, went off air at 0904 UTC, was back again when checked
at approx 0919, still on at 1010.
1140 UTC, 13,320 kHz, MCW Morse as noted on the 17th on 11,320, S9+, nice and slow.
Morse stopped around 1213 UTC leaving just the carrier which went off at 1221.

Not found over the weekend or during the following week when the above frequencies were monitored at the previously used times.

Not Number Station but Possibly Interesting:-

Lots of SSB communications in what sounds like Russian language heard in the UK afternoon on 10,460 kHz. OM voices, often one considerably stronger that the other(s),
first noted on 19-Oct at around 1500 UTC, heard active on most afternoons since.

Morse Stations

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

Morse - Number Stations

UNID CW

In the last newsletter we included the following log in the M89 section. We now understand that this is believed to be a North Korean station & not M89.
Thanks to Ary, (AB), for the correction.

4375 1320z - 1329 13 Aug VVV 7GI (x3) DE T3B (x2) (IP - Cont'd) (Remote tuner China) JPL SUN

VVV 7GI (X3) DE T3B (X2) QSA ? K (IP – Cont'd - Hand sent – 1320z)
QTC 10 20 BT BT
91265 07695 92008 03031 41928 68769 04905 70020 99279 31630
45119 23463 5563A 09523 62056 77531 10376 92472 84985 80018 K
ABV (T=0)
QTC 10 20 BT BT (1327z)
91265 07695 92008 03031 41928 68769 04905 70020 99289 31631
45919 23463 55630 09523 62056 77531 10376 92472 84985 80018 K
QRU SK (1329z - Silent)

M01/ 2 XIV MCW, hand (463 sched for Sep - Oct). Will change to M01/1 sched ID 197 for Nov - Feb.

September 2017:

5020	2000z	05 Sep	'463' 765/30	67106...	...LG 55436	Weak/Fair, med-fast. Oblique format	BR/CB/HFD	TUE
	2000z	07 Sep	'463' 827 30 = =	68626...	...LG 77906 = =	Strong, fast. Errors noted	CB	THU
	2000z	12 Sep	'463' 237 30 = =	85034...	...LG 5004 = =	Good, med-fast. 32 grps sent including 2x4-fig	BR	TUE
	2000z	14 Sep	'463' 911 30 = =	83595...	...LG 49500 = =	Good, fast. Several errors noted	BR	THU
	2000z	19 Sep	'463' 654 30 = =	35166...	...LG 10875 = =	Good, fast. Excellent CW. No noted errors	BR	TUE
	2000z	21 Sep	'463' 291 30 = =	31064...	...LG 51200 = =	Fair, med-fast. Long zero used. Errors noted	BR	THU
	1959z	26 Sep	'463' 375 30 = =	17172...	...LG 52492 = =	Good, med-fast. Several errors noted	BR	TUE
5475	1800z	05 Sep	'463' 567/30	72513...	...LG 84664	Good, med-fast. Oblique format	BR/CB	TUE
5486	1805z	07 Sep	741 30 = =		...LG 82 .26	Intercepted during transmission. 11kHz high	CB	THU
5475	1800z	14 Sep	'463' 836 30 = =	58236...	...LG 56685 = =	Good, fast. Numerous errors noted	BR	THU
	1800z	19 Sep	'463' 234 30 = =	. . . .	...LG 18816 = =	Fair, fast. Severe digital data QRM	BR/HFD	TUE
	1800z	21 Sep	'463' 718 30 / /	84442...	...LG 0194 .	Numerous errors noted. Chaotic in parts	BR	THU
	1759z	26 Sep	'463' 687 30 = =	30258...	...LG 98956 = =	Good, med-fast. Errors noted inc.a 4-fig grp	BR	TUE
	1800z	28 Sep	'463' 901 30	75665...	...LG 08372	Fair, slow. DK GC sequence changed.	BR	THU
6260	1500z	02 Sep	'463' 721/30	98617...	...LG 96750	Weak/Fair, slow. Oblique format. Poor copy	BR/CB/HFD	SAT
	1500z	09 Sep	NRH				BR	SAT
	1500z	16 Sep	'463' 377 30 = =	79156...	...LG 22344 = =	Good, fast. NRH UK. Log via Twente	BR	SAT
	1459z	30 Sep	'463' 298 30 = =	03567...	...LG 64752 = =	Fair, fast with longer pauses. Errors noted	BR	SAT
6510	0700z	03 Sep	'463' 521 30 = =	30187...	...LG 85353 = =	Fair, fast. Good CW. Error in grp09	BR/CB/HFD	SUN
	0700z	10 Sep	'463' 476 30 = =	76204...	...LG 05667 = =	Fair, fast. Numerous errors. Erratic Morse	BR	SUN
	0659z	17 Sep	'463' 374 30 = =	79 . .6...	...LG 22344 = =	Weak, fast. Poor copy. Msg as Sat 16 Sep	BR	SUN
	0700z	24 Sep	'463' 365 30 = =	77030...	...LG 33007 = =	Weak, fast. Good copy. Errors noted	BR	SUN

October 2017:

5020	**1958z**	03 Oct	'463' 619=30 = =	37570...	...LG 87035 = =	Fair, med-fast. Changes to usual format noted	BR	TUE
	2000z	05 Oct	'463' 326 30 = =	14086...	...LG 27389 = =	Strong, fast. Several errors noted	CB	THU
	2000z	10 Oct	'463' 808 30 = =	06011...	...LG 75664 = =	Strong, fast. Steady CW with errors noted	CB	TUE
	2000z	12 Oct	'463' 669=30 = =	35333...	...LG 08163 = =	Fair, fast. Format changed & msg errors noted	CB	THU
	2000z	17 Oct	'463' 293 30 = =	00237...	...LG 07092 = =	Weak/Fair, fast. Excellent CW. No errors	BR	TUE
	2000z	19 Oct	'463' 777=30 = =	57555...	...LG 41013 = =	Fair, med=fast. Format changed & errors noted	BR/CB	THU
	2000z	24 Oct	'463' 374 30 = =	71153...	...LG 22944 = =	Strong, signal steady faultless delivery	CB	TUE
	2000z	26 Oct	'463' 810 30 = =	52400...	...LG 90266 = =	Strong, fast. Errors noted, two corrected.	CB	THU
	2000z	31 Oct	'643' 776 30 = =	97824...	...LG	Weak, med-fast. Call-up '643'. Faded by 2007z	BR/CB	TUE
5475	**1758z**	03 Oct	119=30	32350...	...LG 67177 = =	Fair, med-fast. Changes to usual format noted	BR	TUE
	1800z	05 Oct	'463' 425 30 = =	54843...	...LG 69905 = =	Fair, fast. Several errors noted	CB	THU
	1800z	10 Oct	'463' 907 30 = =	76245...	...LG 0724 . = =	Good, fast. Steady CW with a couple of errors	BR	TUE
	1800z	12 Oct	'463' 911=30 = =	12582...	...LG 44953 = =	Strong, fast. Format changed & errors noted	CB	THU
	1800z	17 Oct	'463' 1 .7 30 = =	00	...LG . . . . . = =	Very weak, fast. Very poor copy	BR	TUE
	1800z	19 Oct	'463'	Weak call-up at 1800z. Nothing further heard			BR	THU
	1800z	24 Oct	'463' 512 30 = =	29905...	...LG 66791 = =	Variable strength. Steady delivery with errors	CB	TUE
	1800z	26 Oct	'463' 705 30 = =	95390...	...LG 90144 = =	Strong, fast. Good CW. Two errors noted	CB	THU
	1800z	31 Oct	'463' 103=30= =	84354...	...LG 02674 = =	Strong, slow. Format changed & errors noted	CB	TUE
6260	1500z	07 Oct	'271' 271 30 = =	64117...	...LG 59847 = =	Weak, fast. DK as call-up, then '463' x 4	BR	SAT
	1500z	14 Oct	'463' 106/30	3	...LG 25372 106/30 000	Fair, Fast. Format changes noted	BR/CB	SAT
	1500z	21 Oct	'463' 171 30 = =	07234...	...LG 17010 = =	Ends 1510z Via SDR Enschede MCW	E.SMITH	SAT
	1500z	28 Oct	'463' 276 30 = =	93519...	...LG 95013 = =	Weak, Slow.	BR/CB	SAT
6510	0700z	01 Oct	'463' 191 30 = =	54700...	...LG 46011 = =	Weak, V.fast. Many errors. Chaotic in parts	BR	SUN
	0700z	08 Oct	'463' 345 30 = =	23218...	...LG 56444 = =	Fair, fast. Errors noted. No 000 sent at EOT	BR	SUN
	0700z	15 Oct	'463' 290=30	76503...	...LG 90790 = =	DK GC sequences changed. Ends =0=0=0	BR	SUN
	0700z	22 Oct	NRH				BR	SUN
	0702z	29 Oct	'463' 312 30 = =	26397...	...LG 95013 = =	Fair, fast. Last 6 grps same as Sat 28 msg	BR	SUN

M01a (From Feb 2016 M01a has been redefined to cover all M01 variants - excepting M01b)

Edd, (E.SMITH), has been busy again trying to catch M01a transmissions & with a good deal of success! Edd is looking to see if there are any regular scheds, patterns or repeat messages in the transmissions over a period of time. Edd comments that M01a activity at present seems to fall into two sessions of a few days each month, but it is not known it this is a regular pattern. Thanks for all your work in logging & transcribing these Edd.

Here are some of Edd's transcripts of his logs.

The blank lines in the logs represent a pause of variable length, typically ranging from around 10 to 60 seconds. Three dots ... indicate a longer pause.

9447	0637 (IP) - 0639z	26 Sep	Via Enschede, Netherlands SDR	CW	E.SMITH	TUE

..941 63107 87771 08474
45960 15627 06122 48680 56936 05462 99987 11484 28252 50238
20615 23079 56046 00040 00051 00000 = 651 35 000

9411 0530 (IP) - 0542z 10 Oct Via Silec Poland SDR CW E.SMITH TUE

751 (x3) 97919 97919 (Rx6) Stops and restarts during last repeats...

751 (x3) 98745 98745 (Rx4) Cuts out...

111 999
...

00047 00040 56182 19825 68645 45988 42877 06704 17226 66740
20806 65375 12929 64736 37371 13787 03983 76014 54848 72268
80547 65164 06706 27530 98575 36982 78442 41059 47737 57700
99148 80678 00030 00037 00000 = 037 35 000 (0542z) (Monitored until 0919z NRH.)

5860 0652 (IP) - 0751z 11 Oct Via Silec Poland SDR CW E.SMITH WED

582 Repeated for approx a minute three times with three minute gaps in-between each sending, and again sent for a minute at 0751z. (Monitored until 1250z NRH)

6034 0656 (IP) - 0657z 11 Oct Via Silec Poland SDR CW E.SMITH WED

881 (x3) 41177 41177 (Monitored until 0840z NRH)

4545 0841 (IP) - 1127z 11 Oct Via Silec Poland SDR CW E.SMITH WED

982 (x3) 33430 33430

982 (x3) 32500 32500 (Rx9)

982 (x3) 33500 33500
0849z
...

0921z. [Slow sent]

[Hand down/Test tone]

982 (x3) 32670 32670 (Rx6)

111 999

428 12 = 89562 32547 01897 54068 52987 56348 12301 12365 75484 32899 12547 36587 = 428 12

111
0 0 0
0930z
…
1118z

982 (x3) 32101 32101 (Rx4)

111 999
839 14 = 64785 23956 33014 45780 16230 95852 25847 36923 95607 45871 95478 42330 85947 63254 = 839 14

[Repeated slower]

111 000 1127z [Monitored until 1250z NRH]

5063 0837 (IP) - 0843z 11 Oct Via Silec Poland SDR CW E.SMITH WED

[Slow sent]

430 (x3) 48756 48756 (Rx6)

430 (x3) 49756 49756 (Rx7) 0843z [Monitored until 1250z NRH]

4641 1127 (IP) - 1230z 12 Oct Via Silec Poland SDR CW E.SMITH THU

111 0 0 0

[Just caught the ending of a message]
…
1218z

385 (x3) 82899 82899

385 (x3)

333 82999 82999 (x2)

111 999

413 10 = 87504 98420 896.... 54651 26 84468 ...

89651 03465 41468 12084 21054 65126 84468 74963 = 413 10

111 0 0 0

1230z [Monitored until 1317z NRH]

4408 1134 (IP) - 1235z 12 Oct Via Silec Poland SDR CW E.SMITH THU

996 (x3) 47898 47898 (Rx2)

111

111 999

137 05 / 67219 98371 85948 09489 80889 / 152 05 0 0 0

1137z

…

1209z

[Hand down/Test tone]

996 (x3) 38868 38868 (Rx3)

111

111 999

543 10 / 63783 65434 86542 54348 07654 54221 42343 74321 67372 96593 / 543 10 0 0 0

1213z

…

1235z

[Hand down/Test tone. Much Faster. Sounds like it's been pre-recorded and is being played back faster]

996 (x3) 33822 38822
996 (x4) 38872 38822
966 996 996 38822 38872
996 (x3) 38822 38822
996 (x3) 38822 38872
996 (x3) 38812 38877
996 (x3) 88822 38822
996 (x3) 38822 38822
996 (x3) 38822 38821

996 (x3) 38768 88768

996 (x3) 38...

99

99

996 (x3) 38768 38768 (Rx6)

111

111 999

381 05 / 57713 63783 65434 86547 63331 / 331 05 0 0 0

111
333 0 0 441 05
0 0 0

1235z [Monitored until 1317z NRH]

4384 1212 (IP) - 1218z 12 Oct Via Silec Poland SDR CW E.SMITH THU

718 (x3) 53000 53000 (Rx5)

718

111

111 999

343 10 / 08938 26310 54689 23490 87943 79096 54348 07654 54221 42343 / 343 10 0 0 0

111
333 0 0
34310 0 0 0

After multiple searches during Friday 27 October Edd found M01transmitting just on this single frequency.

4678	0953 (IP) - 1005z	27 Oct	Via Silec Poland SDR	CW	E.SMITH	FRI

41
…

333 43361 43361 (Rx3)
...

333
…

333 43151 43151 (Rx3)
…

333
…

333 43231 43231 (Rx4)

111
...

333 3

333 3

333 3

111 0 0 0 (Monitored until 1421z NRH)

M01b

September 2017:

3510//4605	1832z	14 Sep	'201' 786 32 = 74632				HFD	THU
3520//4585	2010z	01 Sep	'582' 786 32 = 74632....	4585 stronger	MCW	HFD	FRI
3520	2010z	29 Sep	'582' 786 32 = 74632 ... 98952 000	Weak	MCW	BR	FRI
3535//4590	1810z	11 Sep	'420' 786 32 = 74632...			HFD	MON
3535//4590	1809 - 1827z	18 Sep	'420' 786 32 = 74632 ... 98952 000	Fair//Good Data QRM on 4590kHz	MCW	BR	MON
3625//4940	1902z	01 Sep	'153' 786 32 = 74632....	4940 stronger	MCW	HFD	FRI
3625	1902 - 1920z	29 Sep	'153' 786 32 = 74632 ... 98952 000		MCW	BR	FRI
3645//4465	1915z	04 Sep	'771' 786 32 = 74632....	4465 inst. of 4455 3645 stronger	MCW	HFD	MON
3645//4465	1915 - 1933z	18 Sep	'771' 786 32 = 74632 ... 98952 000	Weak//Good	MCW	BR	MON
3715//4570	1942z	14 Sep	'477' 786 32 = 74632....	4570 stronger		HFD	THU
3715//4570	1942 - 1958z	28 Sep	'477' 786 32 = 74632 ... 98952 000	Good//Fair	MCW	BR	THU

October 2017:

3535//4590	1810 - 1827z	02 Oct	'420' 117 32 = 82291 ... 10835 000	Good//Good	MCW	BR	MON
3645	1915 - 1933z	02 Oct	'771' 117 32 = 82291 ... 10835 000	Good	MCW	BR	MON
3645//4455	1915 - 1932z	16 Oct	'771' 117 32 = 82291 ... 10853 000	Fair//Fair	MCW	BR	MON
3715//4570	1942 - 1958z	05 Oct	'477' 117 32 = 82291 ... 10835 000	Fair//Good	MCW	BR	THU
4940	1902 - 1920z	06 Oct	'153' 117 32 = 82291 ... 10835 000	Strong	MCW	BR	FRI

M01b 3535//4590kHz 1809z 18 Sept 2017

420 (R4m) 786 786 32 32 = =

74632 22615 27704 21021 89219 26192 27865 04802 36111 14773 45690 20741 38236 04039 88700 07718 46982 36364 21332 81806 16869 77533 56312 25716 24116 85191 83383 38523 62622 56038 32477 98952 = =

786 786 32 32 000

Courtesy BR

M01b 3535//4590kHz 1810z 02 Oct 2017

420 (R4m) 117 117 32 32 = =

82291 09394 05963 10773 62755 31692 49431 34834 90980 44393 46540 30712 34440 15561 18945 82802 74917 58345 61536 98361 98874 18072 25027 71602 06020 74934 85494 21857 01376 52821 58777 10835 = =

117 117 32 32 000

Courtesy BR

M08a XVIII ICW / CW, some MCW

M08a was mostly absent during the previous two months apart from a 10 day spell in October. The carrier still comes up regularly for the usual schedules and in fact HM01 was regularly heard in the 2300z slot during September. When heard the transmissions were often coming up late but are still apparently starting 5 minutes before the start of the hour.

The transmission at 1400z on 16 October was of note in that the second & third call-ups started with the same digit, rather than the third call-up having a first digit 1 or 2 higher than the second.

Logs

September 2017:

8009	2300z	04 Sep	HM01 LSB mode, expected M08a in this time slot	AnonUS	MON
	2300z	06 Sep	HM01 LSB mode, expected M08a in this time slot	AnonUS	WED
	2300z	11 Sep	HM01 LSB mode, expected M08a in this time slot	AnonUS	MON
	2300z	13 Sep	HM01 LSB mode, expected M08a in this time slot	AnonUS	WED
	2300z	18 Sep	HM01 LSB mode, expected M08a in this time slot	AnonUS	MON
	2300z	25 Sep	HM01 LSB mode, expected M08a in this time slot	AnonUS	MON
	2300z	27 Sep	HM01 LSB mode, expected M08a in this time slot	AnonUS	WED
	2300z	30 Sep	HM01 LSB mode, expected M08a in this time slot	AnonUS	SAT
8135	2300z	14 Sep	HM01 LSB mode, expected M08a in this time slot	AnonUS	THU
	2300z	15 Sep	HM01 LSB mode, expected M08a in this time slot	AnonUS	FRI
	2300z	19 Sep	HM01 LSB mode, expected M08a in this time slot	AnonUS	TUE
	2300z	21Sep	HM01 LSB mode, expected M08a in this time slot. Two instances running	AnonUS	THU
	2300z	22 Sep	HM01 LSB mode, expected M08a in this time slot	AnonUS	FRI
	2300z	29 Sep	HM01 LSB mode, expected M08a in this time slot. Two instances running	AnonUS	FRI

October 2017:

7554	2000z	10 Oct	[- - - - 71181 84412] Up early in progress transmission probably started at 1955z	AnonUS	TUE
	2000z	13 Oct	[34371 46011 50342]	AnonUS	FRI
	2000z	17 Oct	[31561 44002 57321]	AnonUS	TUE
	2000z	19 Oct	[- - - - 74051 87372]	AnonUS	THU
8009	2300z	02 Oct	HM01 LSB mode, expected M08a in this time slot	AnonUS	MON
	2300z	16 Oct	Came up in progress	AnonUS	MON
8096	1400z	10 Oct	[- - - - - - - - - 63352] Up late in progress transmission probably started at 1355z	AnonUS	TUE
	1400z	11 Oct	[- - - - 42051 54472] Up early in progress	AnonUS	WED
	1400z	12 Oct	[- - - - 33252 46681] Up early in progress	AnonUS	THU
	1400z	13 Oct	Up early in progress	AnonUS	FRI
	1400z	14 Oct	Tone so close to Morse frequency that the Morse was not readable	AnonUS	SAT
	1400z	16 Oct	[08072 20622 25642] Unusual call-ups 2 and 3 start with same digit	AnonUS	MON
	1400z	18 Oct	[33572 46812 60231]	AnonUS	WED
8135	2300z	10 Oct	[- - - - - - - - - 47841] Up late in progress	AnonUS	TUE
	2300z	14 Oct	Came up in progress	AnonUS	SAT
	2300z	17 Oct	[85102 08432 11751]	AnonUS	TUE
	2300z	26 Oct	HM01 LSB mode, expected M08a in this Time slot	AnonUS	THU

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

New ID's may be only for the month/sched shown, but not necessarily unknown . The reason for their reuse, some after long periods of time, is unknown.

September 2017: **New scheds in bold type**

6793/5893/4593	2100/20/40z	06 Sep	785 1 (5372 113) 98745 20416....	BR	WED
	2100/20/40z	13 Sep	785 1 (6984 115) 74946 25623....	BR/HFD	WED
	2100/20/40z	20 Sep	785 000	BR	WED
	2100/20/40z	27 Sep	785 1 (5641 87) 52066 17873.... Glitches on DK/GC on 6793kHz	BR	WED
8047/6802/5788	1900/20/40z	06 Sep	463 1 (6154 141) 05526 98997....	BR	WED
	1900/20/40z	13 Sep	463 1 (4274 137) 31041 49343....	BR/HFD	WED
	1900/20/40z	20 Sep	463 1 (7316 140) 70529 27027....	BR	WED
	1800/20/40z	27 Sep	463 1 (1751 144) 28310 37017....	BR	WED
8176/9376/10476	0500/20/40z	02 Sep	134 1 (145 111) 66281 81448 ... 00529 63726 000 000	AB/HFD	SAT
	0500/20/40z	09 Sep	134 1 (5372 113) 98745 20416 ... 82305 36221 000 000	AB	SAT
	0500/20/40z	23 Sep	134 000	AB	SAT
9176/7931/6904	1700/20/40z	04 Sep	257 1 (6622 109) 85829 76411....	BR	MON
	1700/20/40z	06 Sep	257 1 (4545 106) 83838 58476....	BR	WED
	1800/20/40z	06 Sep	257 1 (3788 149) 21321 27985....	BR	WED
	1700/20/40z	11 Sep	257 1 (9777 111) 02095 22764....	BR	MON
	1700/20/40z	13 Sep	257 1 (6808 107) 32241 39059....	BR/HFD	WED
	1800/20/40z	13 Sep	257 1 (4285 130) 04625 54091....	BR/HFD	WED
	1700/20/40z	18 Sep	257 1 (5024 101) 91018 83746....	BR	MON
	1700/20/40z	20 Sep	257 1 (8235 111) 59455 48885....	BR	WED
	1800/20/40z	20 Sep	257 1 (1576 134) 95712 73495....	BR	WED
	1700/20/40z	25 Sep	257 1 (6011 102) 80727 03930....	BR	MON

	1700/20/40z	27 Sep	257 1 (2930 104) 60517 08249....		BR	WED
	1800/20/40z	27 Sep	257 1 (4872 131) 48897 64961....		BR	WED
9246/8146/---	**2110/30/50z**	**07 Sep**	**218 000**	Very strong	Danix	THU
	2110/30/50z	14 Sep	218 000		BR	THU
	2110/30/50z	21 Sep	218 000		BR	THU
	2110/30/50z	28 Sep	218 000		BR	THU
10343/9264/8116	**1900/20/40z**	**07 Sep**	**124 1 (2870 127) 34048 60602....**	Strong	BR	THU
	2000/20/40z	**11 Sep**	**124 1 (5840 106) 25424 83212....**	Strong	BR	MON
	1900/20/40z	14 Sep	124 1 (8479 129) 06360 26631....		BR	THU
	2000/20/40z	18 Sep	124 1 (6105 108) 31384 42062....		BR	MON
	1900/20/40z	21 Sep	124 1 (8426 119) 89505 77118....		BR	THU
	2000/20/40z	25 Sep	124 1 (1254 101) 53729 67722....		BR	MON
	1900/20/40z	28 Sep	124 1 (6423 122) 96468 52471....		BR	THU
11575	**2010z**	**01 Sep**	**352 000**		HFD	FRI
13375/11575/---	**1950/2010/2030z**	**06 Sep**	**352 000**		BR	WED
	1950/2010/2030z	13 Sep	352 000		BR	WED
	1950/2010/2030z	15 Sep	352 000		BR	FRI
	1950/30/50z	27 Sep	352 000		BR	WED
13873/13373/11473	1310/30/50z	02 Sep	834 000		HFD	SAT
	1310/30/50z	07 Sep	834 1 (3474 61) 30656 08141 ...72802 96209 000 000		AB	THU
	1310/30/50z	09 Sep	834 1 (3474 61) 30656 08141		BR	SAT
	1310/30/50z	14 Sep	834 000		BR	THU
	1310/30/50z	16 Sep	834 000		BR	SAT
	1310/30/50z	21 Sep	834 000		AB	THU
	1310/30/50z	28 Sep	834 1 (1922 113) 05572 32964....		BR	THU
14377/13461/12114	1700/20/40z	07 Sep	317 1 (1221 101) 15117 86520....		BR	THU
	1700/20/40z	14 Sep	317 1 (7806 108) 36637 44470....		BR	THU
	1700/20/40z	21 Sep	317 1 (8377 105) 73484 27497....		BR	THU
	1700/20/40z	28 Sep	317 1 (2151 110) 39395 54677....		BR	THU
16348/14848/13448	1400/20/40z	04 Sep	384 000		HFD	MON
	1400/20/40z	06 Sep	384 000		BR	WED
	1400/20/40z	11 Sep	384 1 (8188 151) 23809 82863 ... 59739 02343 000 000	Weak sigs	Gert	MON
	1400/20/40z	20 Sep	348 000		BR	WED
	1400/20/40z	25 Sep	384 1 (6614 167) 60503 81829 ... 32566 17128 000 000		AB	MON

October 2017:

5814/5214/4614	2100/20/40z	04 Oct	826 1 (7070 101) 98280 97196....		BR	WED
	2100/20/40z	11 Oct	826 1 (2441 97) 17322 24249....		BR	WED
	2110/30/50z	18 Oct	826 000		BR	WED
	2110/30/50z	25 Oct	826 1 (7734 123) 92880 67826....		BR/HFD	WED
6832/7932/9232	0500/20/40z	07 Oct	892 1 (7070 101) 98280 87196 ... 87444 47952 000 000		AB	SAT
	0500/20/40z	14 Oct	892 1 (2441 97) 17322 24249 ... 16369 23597 000 000	Via SDR Enschede	E.SMITH	SAT
	0500/20/40z	21 Oct	892 000	Via SDR Enschede	E.SMITH	SAT
	0500/20/40z	28 Oct	892 1 (7734 123) 92880 67826 ... 13644 17988 000 000	Via SDR Enschede	E.SMITH	SAT
7516/5836/---	**2010/30/50z**	**05 Oct**	**584 000**		HFD	THU
8047/6802/5788	1900/20/40z	04 Oct	463 1 (3441 148) 35003 77589....		BR	WED
	1900/20/40z	11 Oct	463 1 (9407 141) 02717 11992....		BR	WED
	1900/20/40z	18 Oct	463 1 (2725 146) 42894 18323....		BR	WED
	1900/20/40z	25 Oct	463 1 (8869 130) 66923 80167....		BR	WED
9176/7931/6904	1700/20/40z	02 Oct	257 1 (7805 104) 29228 36590....		BR	MON
	1700/20/40z	04 Oct	257 1 (9562 101) 82275 29822....		BR	WED
	1800/20/40z	04 Oct	257 1 (8986 140) 90200 02568....		BR	WED
	1700/20/40z	09 Oct	257 1 (6629 107) 61690 50035....		BR	MON
	1700/20/40z	11 Oct	257 1 (7727 110) 25439 36120....		BR	WED
	1800/20/40z	11 Oct	257 1 (3095 137) 83671 99686....		BR	WED
	1700/20/40z	16 Oct	257 1 (1187 107) 43531 80621....		BR	MON
	1700/20/40z	18 Oct	257 1 (9390 101) 59550 39039....		BR	WED
	1800/20/40z	18 Oct	257 1 (2710 133) 85607 47730....		BR	WED
	1700/20/40z	23 Oct	257 1 (7315 108) 73338 44979....		BR	MON
	1700/20/40z	25 Oct	257 1 (8732 110) 73887 52965....		BR	WED
	1800/20/40z	25 Oct	257 1 (3168 134) 35896 82564....		BR	WED
	1700/20/40z	30 Oct	257 1 (3342 103) 98980 16249....		BR	MON
10343/9264/8116	1900/20/40z	05 Oct	124 1 (9428 112) 46951 87514....		BR	THU
	2000/20/40z	09 Oct	124 1 (1277 102) 32626 24840....		BR	MON
	1900/20/40z	12 Oct	124 1 (5263 119) 89869 13050....		BR	THU
	2000/20/40z	16 Oct	124 1	Very Weak	BR	MON
	2000/20/40z	19 Oct	124 1 (7244 123) 85394 06074....		BR	THU
	2000/20/40z	23 Oct	124 1 (1211 101) 45109 35497....	(10343kHz NRH)	BR	MON
	2000/20/40z	30 Oct	124 1 (4815 105) 68805 09723....	(10343kHz V.weak)	BR	MON

10984/9384/8084	**1950/2010/2030z**	**11 Oct**	**930 000**		BR	WED
	1950/2010/2030z	18 Oct	930 000		BR	WED
	1950/2010/2030z	25 Oct	930 000		BR	WED
	1950/2010/2030z	27 Oct	930 000		BR	FRI
12214/10814/9214	1310/30/50z	05 Oct	282 000	Fair	HFD/tiNG	THU
	1310/30/50z	07 Oct	282 000		BR	SAT
	1310/30/50z	14 Oct	282 1 (4583 69) 05631 72672....		BR	SAT
	1310/30/50z	19 Oct	282 000		BR	THU
	1310/30/50z	21 Oct	282 000	Via SDR Enschede	E.SMITH	SAT
	1310/30/50z	26 Oct	282 1 (6669 77) 67917 51268....		BR	THU
	1310/30/50z	28 Oct	282 1 (6669 77) 67917 51268....		BR	SAT
14377/13461/12114	1700/20/40z	05 Oct	317 1 (9222 106) 37281 49455....		BR	THU
	1700/20/40z	12 Oct	317 1 (6527 103) 85696 19657....		BR	THU
	1700/20/40z	19 Oct	317 1 (2272 102) 29226 68777....	(14377kHz NRH)	BR	THU
	1700/20/40z	26 Sep	317 1	Very weak	BR	THU
14769/16269/---	**1010/30/50z**	**29 Oct**	**721 000**	Very strong	Danix	SUN
18639/17439/15839	1400/20/40z	02 Oct	648 000		BR	MON
	1400/20/40z	04 Oct	648 000		HFD	WED
	1400/20/40z	11 Oct	648 000		BR	MON
	1400/20/40z	16 Oct	648 1 (5604 121) 98230 32349....		BR	MON
	1400/20/40z	18 Oct	648 1 (5604 121) 98230 32349....		BR	WED
	1400/20/40z	23 Oct	648 000		BR	MON
	1400/20/40z	25 Oct	648 000		E.SMITH	WED
	1400/20/40z	30 Oct	648 1 (3320 87) 44489 81719 ... Error on 1420z transmission	[Note 1]	AB/E.SMITH	MON

[Note 1] On the 1420z transmission only the msg stopped after grp31, the call-up was re-sent without DK GC sent, then the message resumed at grp32.

M14 IA MCW / ICW Short 0

September 2017:

4635	1600z	05 Sep	273 (853 48) = 78763 53446 ... 88651 23115	MCW	Danix/HFD	TUE
5241	2300z	10 Sep	376 (027 45) = 45632 17653 ... 37509 27843 00000	MCW	AB	SUN
			[***Then at 2315z***] 59 97857 38721 0469E	MCW	AB	SUN
5431	0800z	16 Sep	171 (241 40) = 34526 36452 ... 39826 18726 00000 (Via remote Hungary)	CW	AB	SAT
5460	1920z	13 Sep	537		HFD	WED
5477	1751 - 1800z	01 Sep	Two short transmissions heard before sending 'No msg' sequence	MCW	AB	FRI
			1751z 6627			
			1758z 37			
			1800z 382 382 382 00000		AB/HFD	
5560	0900z	09 Sep	171 (027 45) = 45632 17653 ... 37509 27843 00000	MCW	AB	SAT
	0900z	16 Sep	171 (241 40) = 34526 36452 ... 39826 18726 00000 (Via remote Hungary)	CW	AB	SAT
5825	0000z	11 Sep	376 (027 45) = 45632 17653 ... 37509 27843 00000	MCW	AB	SUN
5936	1700 - 1715z	01 Sep	'No msg' sequence sent at 1700z followed by 28 grps at 1715z	MCW	AB/HFD	FRI
			1700z 382 382 382 00000			
			1715z 35175 68189 69619 26145 70247 17524 58062 66077 81223 80891			
			50347 97232 05947 87380 94583 81900 95234 9342 04033 44983			
			96745 22712 54372 03002 41917 40845 50628 51256			
5950	1820z	12 Sep	346 (027 45) = 45632.... BC QRM		HFD	TUE
6835	0600z	24 Sep	382 000	MCW	HFD	SUN
16347	0930 - 0934z	25 Sep	617 00000 Fair	CW	E.SMITH	MON
18041	0500z	05 Sep	952 (874 60) = 00674 43168 ... 99598 91698 = = 874 874 60 60 00000	CW	AB	TUE
	0500z	06 Sep	952 (363 50) = 13193 74807 ... 22686 37594 = = 363 363 50 50 00000	CW	AB	WED
	0500z	08 Sep	952 (680 30) = 48863....		HFD	FRI
	0500z	11 Sep	952 (317 60) = 23603 24116 ... 18557 55983 = = 317 317 60 60 00000	CW	AB	MON
	0500z	25 Sep	952 (386 50) = 26596 49187 ... 71799 55118 = = 386 386 50 50 00000	CW	AB	MON

October 2017:

5240	2300z	08 Oct	376 (241 40) = 34526 ... 18726 00000	Very strong	PLdn	SUN
	2259z	15 Oct	376 (263 47) = 24315 ... 17652 = = 263 47 00000	Very strong	PLdn	SUN
	2300z	29 Oct	376 (263 47) = 24315 ... 17625 = = 263 47 00000	Very strong, QRM2	PLdn	SUN
5430	0801z	07 Oct	171 00000		HFD	SAT
5477	1800 - 1817z	20 Oct	382 (468 62) = 53445 74877 17033 32178 28617 ... 46271 468 62 00000	Very strong	Danix	FRI

5560	0900z	07 Oct	171 00000 (241 40) = 34526 36452 ... 39826 18726 **Null followed by msg** MCW	AB	SAT
5825	0000z	09 Oct	376 (241 40) = 34526 ... 18726 00000 Very strong	PLdn	MON
	0000z	30 Oct	376 (263 47) = 24315 ... 17625 = = 263 47 00000 Very strong	PLdn	MON
5930	1700 - 1717z	20 Oct	382 (468 62) = 53445 74877 17033 32178 28617 ... 46271 468 62 00000 Very strong	Danix	FRI
17458	0930 - 0934z	10 Oct	617 00000 (Via Enschede, Netherlands SDR) CW	E.SMITH	TUE
	0930 - 0934z	25 Oct	617 00000	E.SMITH	WED
18041	0500z	04 Oct	952 (364 50 = 19410 33816 ... 08722 91615 00000 (Via remote Philippines) CW	AB	WED

M14 4635kHz 1600z 05 Sep 2017

273 (R4m) 853 853 48 48 = =

78763 53446 64042 58061 93137 31041 23764 01408 30551 99153
80959 99830 59563 64180 24815 86458 57827 70729 45986 14177
30786 75691 24677 67553 42510 34185 52821 25671 71641 87432
76061 65937 30376 92657 92057 70472 53961 95149 82107 57908
65737 10122 64081 43946 33832 58151 88651 23115 = =

853 853 480 48 00000

Courtesy Danix

M14 18041kHz 0500z 06 Sep 2017

952 (R4m) 363 363 50 50 = =

13193 74807 70952 16987 23325 09013 98302 28205 16110 78187
79305 53297 64144 42063 71385 48216 66305 65602 27266 91097
60902 53515 11291 82644 21353 97370 78743 61454 26557 96247
22836 57725 23179 36849 19064 33774 21997 44041 21612 84811
95531 37728 91495 98411 69129 57014 61130 96107 22686 37594
= =

363 363 50 50 00000

Courtesy AB

M23 O ICW

Daniel, (Danix), caught this one on Monday 09 October with '123' in progress.

7500	1519z (IP)	09 Oct	123 (R) In progress	Danix	MON

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

No reports

M76 Schedule on 3280kHz (Changes to 3820kHz or 3294kHz over the year). A detailed analysis can be found in ENIGMA Newsletter 93 - May2016.

Difficult to receive with a good signal into the UK most of the time, monitors rely on various SDRs for logs of this station.

No reports

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

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

No reports for a long time on this one. May now have ceased?

Morse Stations - Not Number Related

M51 XlX

3881//6825 Usual unscheduled & random continuous transmissions heard throughout January & February, often ceasing just before, or commencing shortly after the daily M51a transmissions. These seem to be almost continuously transmitted on these two frequencies now.

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

The following transcript was provided by Ary, (AB) & represents a typical example of the output from M51 / M51a. The station is transmitting continuous mixed groups until the early FAV22 schedule is due at 0830z. The groups cease & then is sent the call-up for FAV22 followed by the days Morse lessons consisting of four alternate 'Code' & 'Clear' transmissions. At the end the sign-off of 'CQ DE FAV22' is sent. The continuous mixed groups will often follow shortly after the sign-off.

Sent on 3881//4625kHz, although 3881kHz was not heard by Ary.

6825	25 Sep	0808z	M51a	CW In progress)	AB	MON

DFSGD JWNYH FKSKQ LAMPO BHODF XHOSL EYTSF 35263 HSNWJ QKAJU
OLAPM HNDJS VWGRT SHQJA 6537/ HBXJD WNQJA UHGDT GDOLQ GBCHX
WNQJU CGDHA JQKAO LQMAO JNVGD XCWVQ HBWJA UHYGT RFSJQ GBCHX
WNQJA QGDJS WNHYR JKSLQ AOLKJ BCJFG XVDGR SYHZU OLQJH BCJOD
XCSLA WLWLW DGBUS 53762 QHNWJ AOLJK FGCHS GKQLZ OLQMW BXNDG

ZRSDO LAMPK HBCJD XIJXK UJSOK 65038 MAHDG XCFSK QLAIU HDJSK
QMAPI UJDGB XGDVR ZTGSU AJQKL PAMKF IAOHO DGXVS HNWOR ZTSFA
KLQMA OKIHU YGFTR 10964 BCNDH XJQKE SIKAP UJDLQ BWNER ZYHSI
QKALM WMAPL WNCVF PMAUJ YHTGR CGDTR 45393 NXHRT GFCDX QHNWJ
AUJDT 35627 9017/ HNXVW SHQJA ZUHDT SJKQM PLIKB CGCFD XBWCD
QHJAK QKOLA YHDGR HDFSU ZKQLP LSHGR PABHF PAHDF XHBFG WNQJY
TGDFC XHSYR 68393 BWJFY CHQJZ JWNHF UJAFQ LDKPD HSPLB CHFTR
WNHDU AJIDO SKQGR ZHQJC BXJQK WLAIJ UTYDF POGUT OFGCR XOKQL
SJUTC 65381 YHBIJ KQGTD 563// HBCJR QKALP GBCHR QKAJU YHDOQ
LPMAU HBCGV XNWHS QJHBT DUJZI QKAOH GSCOQ BWNHT MLAUH VBDTR
SGQHA HWJQK AKLPA BHCYT FGSUJ HWXCD SHVWC XJDUY HBKLM MQNBH
XHTGF SHQUJ HNVFR 54783 MPJUG HXCDY SJQIA NVGDY QHWVF XHQJR
SUJAO QMAHJ DHBVX +

6825 25 Sep 0830z M51a CW AB MON

VVV VVV VVV DE FAV22 FAV22 FAV22 QLH 3881/6825 KHZ
VVV VVV VVV DE FAV22 FAV22 FAV22 QLH 3881/6825 KHZ
VVV VVV VVV DE FAV22 FAV22 FAV22 QLH 3881/6825 KHZ
VVV VVV VVV DE FAV22 FAV22 FAV22 QLH 3881/6825 KHZ

LUNDI-LEçON NUMéRO 11-1/1 VITESSE 420 CODé =
GFDTE XVWBQ ABNHU EJLQP AMLIK WNQHZ SJQHS DGRTC XVQJA JUHKD
VCGFY RHQJA KWLQO ZTDFS 35271 WNDGR JQKIL PMAIU 67349 NWJDO
YHDTC XVSFE ZHQJA KJQUH NWJFG HRTYU SKLOI MQPAZ BHPAK UJDGC
45270 37658 XVCBD WNQHA JKQLA MPLIK JNDGR VXGQJ HDKRT UJFHV
BCNXH WJQKZ KALMP OIRTD FHCVX 01878 DHNCJ SKRTZ SJWNQ HNGTR
XCWVS QNBHA JQKAL MQLKO PAOQL NCHFG RTDFX WBQJH GBDJX +

LA VITESSE DES TEXTES CLAIR LÉGÈREMENT SUPERIEURE LA VITESSE ANNONCEE.

LUNDI-LEçON NUMéRO 11 - 1/2 VITESSE 420 CLAIR =
PRÉS DU CENTRE D'ENTRAÎNEMENT TACTIQUE LE BATAILLON SÉNÉGALAIS ET LES MILITAIRES FRANÇAIS SONT AU GARDE À VOUS. A 70 KM À L'EST DE DAKAR, LES DRAPEAUX FRANÇAIS ET SÉNÉGALAIS SONT HISSÉS CONJOINTEMENT. COMME TOUS LES MATINS, LE RASSEMBLEMENT DONNE LE TON DE LA JOURNÉE, LES ORDRES FUSENT. UN NOUVEAU CYCLE DE SEPT JOURS COMMENCE.

VVV VVV VVV DE FAV22 FAV22 FAV22 QLH 3881/6825 KHZ
VVV VVV VVV DE FAV22 FAV22 FAV22 QLH 3881/6825 KHZ

LUNDI-LEçON NUMéRO 11-1/3 VITESSE 420 CODé =
GBCHX WNQJZ AKOLQ PMAIJ NBCVX GSHQJ BXJTG ERZUA QIKLA PMQJK
IKHNG 23401 HBCJD SUJET ZUJQH AOLQP MQNHB WJUTF CJDGR UJDOL
QPMAU DJSLS WBGCN JHDGX VGDUR HDFCV 74638 UJDGS WJNQU PMAKD
XLQUH FGCRZ SGQHA WKQJU YGHST 46329 OLDHC XBQKA UJQKL IKHNF
CVSGZ WHQYA BWHDT QJAIK QLMAP JGHDT VXHSY ZUHSQ JWNHZ KLQPM
HNDJS WVXBD QHAUJ TGDUR SJQKI 30187 HBCJF XJQKI HBWGD

LUNDI-LEçON NUMéRO 11-1/4 VITESSE 420 CLAIR =
LES HOMMES ET LES FEMMES DU 503E RÉGIMENT DU TRAIN ONT PARCOURU AINSI 20 KILOMÈTRES PAR JOUR, EN PATROUILLANT SUR TROIS SITES DÉSIGNÉS LA VEILLE, DE 6H30 À 22H30. LE 31 JUILLET, ILS ONT SURVEILLÉ LES ABORDS DE NOTRE DAME DE PARIS, LES JARDINS DU CHÂTEAU DE VERSAILLES, ICI LES MILITAIRES DOIVENT ÊTRE ENCORE PLUS ATTENTIFS AUX DÉTAILS +

CQ DE FAV22

M89 O

Jean-Paul, JPL), has been monitoring the output from the Chinese station XSG. It now seems sure that XSG is just a Chinese Coast Station operating in the same way as Coast Stations worldwide & that there is no connection with the military or intelligence services, although the station does send messages in 4-character code as logged by JPL after the met report ended.

JPL monitored a routine synoptic weather report for shipping on 19 October from XSG, an extract of which is reproduced below.

12856 0853 - 0930z (Continued) 19 Oct XSG (Remote tuner Siberia) JPL THU

VVV (x3) DE XSG) (x3) (IP – Machine sent – cont'd – 0853z)

CQ (x3) DE XSG (x3) HR STANDARD TIME SIGNALS AND WX AS (0856z)

HR WX BT BT (0900z)
SHAI OBSY SYNOPTIC SITUATION 190000Z TYPHOON LAN 1721 1721 9655PA AT 15.3N 130.2E MOVING NNW 11 KTS MAX WINDS 74KM EAR CENTER HIGH 10265PA AT 48N 111E MOVING ELY 8 KTS LOW 1019HPA AT 44N 126E MOVING ELY 8 KTS HIGH 1028HPA AT 48N 87E STATIONARY HIGH 1031HPA AT 41N 72E STATIONARY STOP 24 HOUR WEATHER FORECAST FROM 190800Z BOHAI SEA X CLOUDY X S TO SW WINDS FORCE 5 BECOMING NE WINDS FORCE 7 TOMORROW X SEA SMOOTH BECOMING SEA SLIGHT TO MODERATE X BOHAI STRAITS X CLOUDY X S TO EW WINDS FORCE 4 TO 5 BECOMING W TO SW WINDS FORCE 5 TOMORROW X SEA .PPLES BECOMING SEA SMOOTH X ---- [*snip*] ---- NAGASAKI X CLOUDY X NE WINDS FORCE 7 BECOMING N TO NE WINDS FORCE 7 TO 8 TOMORROW X SEA VERY ROUGH X KAGOSHIMA X OVERCAST WITH SHOWER X NE TO E WINDS FORCE 6 TO 7 INCREASING TO 7 T0MORROW X ROUGH TO VERY ROUGH BECOMING SEA VERY ROUGH X RYUKYU X OVERCAST WITH SHOWER X NE WINDS FORCE 8 BECOMING NLY WINDS FORCE 8 TO 9 TOMORROW X SEA VERY ROUGH BECOMING SEA HIGH SEAS X STOP AR DE XSG VA (0922z)
CQ (X3) DE XSG (x3) WX AS) (Cont'd – Faster -0925z)
HR WX BT BT

This is a summary of activity from the M89 stations.

Traffic & Operator Chat from M89

Traffic & Op. chat reported on the following freqs. (All in kHz).

3428	4020	5018	6411	7558	8301	9025	10198
3548	4056	5027	6776	7889	8550	9109	10999
3556	4091	5106			8604	9127	10253
3620	4123	5153			8665	9128	10832
3776	4138	5158			8889	9136	
	4153	5178			8930	9178	
	4165	5227				9185	
	4222	5285				9453	
	4238	5311					11093
	4247	5325					
	4266	5425					
	4334	5434					
	4367	5454					13159
	4390	5501					
	4392	5523					
	4422	5524					
	4432	5555					
	4433	5556					
	4476	5562					
	4491	5621					
	4517	5657					
	4521	5676					
	4545	5689					
	4556	5696					
	4569	5700					
	4605	5725					
	4609	5747					
	4610	5773					
	4636	5785					
	4669	5862					
	4712	5873					
	4780						
	4781						
	4869						
	4948						

New Scheds for Sep/Oct 2017: **From logs submitted from JPL**

11087//NRH	New frequency for this Round Slip	First heard 01 Sep	V JKDJ (x3) DE SLBC (x2)
4125//NRH	New frequency & Round Slip	First heard 05 Sep	V UISD (x3) DE CBFG (x2)
4125//**5479**	// frequency found	First heard 09 Sep	V UISD (x3) DE CBFG (x2)
5479//NRH	New Frequency & Round Slip	First heard 02 Oct	V UISD (x3) DE CBFG (x2)
9131//NRH	Known frequency - New Round Slip	First heard 05 Sep	V UISD (x3) DE CBFG (x2)
4620//4860//6840	New frequency for this Round Slip	First heard 05 Sep	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K
4620//4860	New frequency for this Round Slip	First heard 14 Sep	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K
8360	Known frequency for this Round Slip	First heard 18 Sep	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K
4569//NRH	New frequency for this Round Slip	First heard 21 Sep	V DKG6 (x3) DE 3A7D (x2)
4067//[4847]	New Round slip on known frequency	First heard 01 Oct	V EDC4 (x3) DE VF4R (x2) (This RS only on 4067kHz)
	Note: // sending different R/S. Believe this to be change of R/S and frequency for 5GFD which has been N/H since 01 Oct 17.		
4847//[4067]	Known Frequency & Round Slip	(Last heard 03 Apr 17)	V Z4RQ DE 3WRX (This RS only on 4847kHz)
	Note: // sending different R/S. Believe this to be change of R/S and frequency for H4JH which has been N/H since 01 Oct 17.		
4067//4847	Known frequency & Round Slip	(Last heard 02 May 17)	V 6TGU (x3) DE GR4W (x2)
	Note: R/S has changed. Known R/S. Last used 02 May 17. Both // sending same R/S which rarely happens on this circuit lately.		
6169//10253	Known frequency & Round Slip	(Last heard 02 May 17)	V 6TGU (x3) DE GR4W (x2)
	Note: R/S has changed. Known R/S. Last used 02 May 17. Both // sending same R/S which rarely happens on this circuit lately.		
	From 19 October sending different Round Slips on the two frequencies		6169kHz V EDC3 (x3) DE VF4R (x2)
			10253kHz V Z4RQ (x3) DE 3WRX (x2)
	From 23 October the 10253kHz Round Slip changed to :-		V 6TGU (x3) DE GR4W (x2)

4060//4609	Sending different Round Slips on the two frequencies from 21 Jul - 14 Sept	4060kHz V GJHS (x3) DE 5GFD (x2) 4609kHz V FIK3 (x3) DE H4JH (x2)
	From 14 September - 17 September the 4609kHz Round Slip changed to :-	V TR2Q (x3) DE 5TUH (x2)
6053//10178	Sending different Round Slips on the two frequencies since 20 July	6053kHz V GJHS (x3) DE 5GFD (x2) 10178kHz V FIK3 (x3) DE H4JH (x2)
	From 14 September - 17 September the 10178kHz Round Slip changed to :-	V TR2Q (x3) DE 5TUH (x2)
4067//4847	Sending different Round Slips on the two frequencies from 19 October	4847kHz V Z4RQ (x3) DE 3WRX (x2) 4067kHz V EDC3 (x3) DE VF4R (x2)
	From 23 September the 4067kHz Round Slip changed to :-	V 6TGU (x3) DE GR4W (x2)

Chart of M89 Freq & Call signs heard in Sep/Oct 2017 **New Scheds shown in Bold Type** **From logs submitted from JPL**

Freq in KHz	Call Slip
3642//NRH	V DKG6 (x3) DE 3A7D (x2)
3642//7602	V DKG6 (x3) DE 3A7D (x2)
3777//4532	V M8JF (x3) DE RIS9 (x2)
4060//NRH	GJHS (x3) de 5GFD (x2) V
4067//NRH	V EDC3 (x3) DE VF4R (x2)
4067//4847	**V 6TGU (x3) DE GR4W (x2)**
4125//NRH	**V UISD (x3) DE CBFG (x2)**
4125//5479	**V UISD (x3) DE CBFG (x2)**
4131//NRH	V JKDJ (x3) DE SLBC (x2)
4131//5135	V JKDJ (x3) DE SLBC (x2)
4532//NRH	V M8JF (x3) DE RIS9 (x2)
4569//NRH	**V DKG6 (x3) DE 3A7D (x2)**
4609//NRH	V FIK3 (x3) DE H4JH (x2)
4609//NRH	V TR2Q (x3) DE 5TUH (x2)
4620//4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K
4620//4860//6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K
4720//5150	VVV WNF (x3) DE FXM (x2)
4847//NRH	V Z4RQ (x3) DE 3WRX (x2)
4847/NRH	**V Z4RQ (x3) DE 3WRX (x2)**
5479//NRH	**V UISD (x3) DE CBFG (x2)**

Freq in kHz	Call Slip
5801//10180	V DKG6 (x3) DE 3A7D (x2)
6053//NRH	V GJHS (x3) DE 5GFD (x2)
6053//10178	V TR2Q (x3) DE 5TUH (x2)
6053//10178	**V GJHS (x3) de 5GFD (x2)**
6169//10253	**V 6TGU (x3) DE GR4W (x2)**
6169//NRH	**V EDC3 (x3) DE VF4R (x2)**
6793//NRH	V M8JF (x3) DE RIS9 (x2)
6793//8060	V M8JF (x3) DE RIS9 (x2)
6840//NRH	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K
6840//10640	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K
8060//NRH	V M8JF (x3) DE RIS9 (x2)
8360//NRH	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K
9131//NRH	**V UISD (x3) DE CBFG (x2)**
10178//NRH	V TR2Q (x3) DE 5TUH (x2)
10178//NRH	V FIK3 (x3) DE 54V5 (x2)
10180//NRH	V DKG6 (x3) DE 3A7D (x2)
10253//NRH	V Z4RQ (x3) DE 3WRX (x2)
10640//NRH	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K
11087//NRH	**V JKDJ (x3) DE SLBC (x2)**

Courtesy JPL

M89 6411kHz 1106 (IP) - 1108z 06 September 2017

WC AR BT G4ET/A7WC AR (IP – Hand sent – 1105z)
(Appears to be Exercise message)
OK GA (1105z) (Other station N/H on this frequency)
GA K (1106z)
R QSL 1906 K (1107z)
HR MSG GA K
R MSG
NR 8993 CK 200 51 0906 1900 RMKS 1025 TO 1089 K
R MSG 1P BT
5TDN D53N 43A7 TN5D 5ND3 4D65 UD36 UA76 5367 3TDU (Cont'd – 1108z)

4894kHz 1501 - 1505z 03 October 2017

[DP91]

DE DP7591 QSA 2 U ? (IP – 1501z)
DE DP7591 QSA 2 U ? (1502z)
DE DP7591 QSA 2 U ?
DP7691 QSA .2 ? (1503z)
DP7691 SQSA 2 U ?
DE DP7591 AR QSA 2 (1503z)
DP7391 QSA 2 U ?
DP7791 QS (1504z)
DP7791 QSA 2 U ?
82 DP. 82 8
DE DP7591 QSA 2 U ? (1505z)
DP7691 QSA 2 U ?
DE DP7591 QSA 2 U ? (1505z – Unable to monitor any longer)

M89 4476kHz 1536 (IP) - 1540z 19 September 2017

R QSL 2335 K (IP – Hand sent - 1536z)
R OK (Both stations on this frequency)
R H F GA K
R GA K
R F NR 9245/EX 2336 RN EEEEEEE RMKS 9037 TO 9010 K
R GA K
R F BT
K2WD/T5CN AR BT
K2WD/T5EEEEEE F BT
K2WD/T5CN AR BT
K2WD/T5CN AR K (1538z)
R R R QSL 2337 K
R R R HR MSG GA K
R GA K
R MSG
NR 7542 CK 2.0 68 0919 2330 RMKS 9010 TO 9037 K
R GA K
NR MSG GA 1P BT BT
4N6U 5A74 6N3N T4UN 3A6D (Cont'd – 1540z)

M89 7602kHz 1432 (IP) - 1435z 02 September 2017

V DKG6 (x3) DE 3A7D (x2)

VV HR SVC GA (From R/S – Hand sent – 1432z)
VVV HR SVC GA/029 2230 RMKS 2093 TO 2244 BT
CL/2300/ZBT/A363/2244 AR BT
CL/2300/ZBT/A363/2244 AR
Z EEE QSL ? HR WK NR 10 (Return to R/S 1435z)

Courtesy JPL

DP Stations

4894	DP91					
	1502 - 1510z	30 Sep	Calls to various DP stations DP391 DP7791 DP7491 DP7O91 DP7591 DP7191 DP7O91	(Remote tuner Siberia)	JPL	SAT
	1501 - 1505z	03 Oct	Calls to various DP stations DP7591 DP7691 DP7391 DP7791 DP. 82 8	(Remote tuner Siberia)	JPL	TUE
8980	1005 (IP) - 1011z	20 Sep	DP91 (x3) DE CQ (x2) V HR NIL SK GB (x6)	(Remote tuner Siberia)	JPL	WED
	1004 (IP) - 1011z	22 Sep	DP91 (x3) DE CQ (x2) V HR NIL SK GB (x6)	(Remote tuner Siberia)	JPL	FRI
	1002 (IP) - 1012z	30 Sep	DP91 (x3) DE CQ (x2) V ... NIL SK	(Remote tuner Siberia)]	JPL	SAT

M95 O XSV, XSV70, XSV85

M95 Morse Logs **(Bold type indicates new logging)**

3300	**1**556 (IP) - 1559z	28 Sep	NU64 A73D 6745 6745 54 BT BT etc.. 000 05 05 0	(Remote tuner China)	JPL	THU
4153	**V QWEJ (x3) DE 5RJB (x2)**					
	0701 - 1733z	06 Oct	NR 557/CCK CK 99 50 1007 0100 RMKS BT	(Remote tuner China)	JPL	FRI
4243//NRH	Message number differs from current XSV70 and XSV85 message numbers					
	1141 (IP) - 1157z	18 Sep	NR 046 CK 19 35 0918 1522 BT	(Remote tuner China)	JPL	MON
			NR 024 CK 20 35 0918 1645 BT		JPL	MON
			NR 36 CK 151 35 0918 1706 BT		JPL	MON
	1144 (IP) - 1216z	19 Sep	NR 05 CK 27 49 0919 1932 BT	(Remote tuner China)	JPL	TUE
			NR 048 CK 17 35 0919 1440 BT		JPL	TUE
			NR 38 CK 128 35 0919 1633 BT		JPL	TUE
			NR 027 CK 24 35 0919 1700 BT		JPL	TUE
	1150 (IP) - 1205z	03 Oct	NR 67 CK 31 35 1003 1605 BT	(Remote tuner China)	JPL	TUE
			NR 06 CK 190 35 1003 1625 BT		JPL	TUE
4243//9054	Message number differs from current XSV70 and XSV85 message numbers.					
	1146 (IP) - 1205z	01 Sep	NR 012 CK 17 35 0901 1457 BT	(Remote tuner New Zealand)	JPL	FRI
			NR 02 CK 097 35 0901 1626 BT		JPL	FRI
			NR 072 CK 20 35 0901 1648 BT		JPL	FRI
	1148 (IP) - 1212z	07 Sep	NR 024 CK 18 35 0907 1454 BT	(Remote tuner China)	JPL	THU
			NR 14 CK 126 35 0907 1625 BT		JPL	THU
			NR 090 CK 19 35 0907 1650 BT		JPL	THU
	1140 (IP) - 1202z	09 Sep	NR 03 CK 32 49 0909 1721 BT	(Remote tuner China)	JPL	SAT
			NR 028 CK 19 35 0909 1448 BT		JPL	SAT
			NR 18 CK 152 35 0909 1634 BT		JPL	SAT
			NR 096 CK 15 35 0909 1715 BT		JPL	SAT
	1141 (IP) - 1214z	14 Sep	NR 04 CK 28 49 0913 1300 BT	(Remote tuner China)	JPL	THU
			NR 038 CK 17 35 0914 1514 BT		JPL	THU
			NR 012 CK 13 35 0914 1607 BT		JPL	THU
			NR 28 CK 102 35 0914 1623 BT		JPL	THU
	1141 (IP) - 1214z	28 Sep	NR 066 CK 22 35 0928 1532 BT	(Remote tuner China)	JPL	THU
			NR 56 CK 132 35 0928 1640 BT		JPL	THU
			NR 042 CK 20 35 0928 1645 BT		JPL	THU
	1151 (IP) - 1220z	16 Oct	NR 002 CK 17 35 1016 1530 BT	(Remote tuner China)	JPL	MON
			NR 004 CK 15 35 1016 1532 BT		JPL	MON
			NR 32 CK 101 35 1016 1650 BT		JPL	MON
	1222 (IP) - 1232z	23 Oct	NR 025 CK 19 35 1023 1632 BT BT	(Remote tuner South Korea)	JPL	MON
4327	1127 (IP) - 1144z	19 Sep	NR 754/CCK CK 200 68 0919 1900 RMKS 9013 TO 9037 K	(Remote China)	JPL	TUE
4348	1452 (IP) - 1510z	11 Sep	NR 004/CCK CK 99 18 0911 2300 RMKS 0738 TO ....K	(Remote Siberia)	JPL	MON
			NR 050/CCK CK 99 18 0911 RMKS 6651 TO 0738 K (1503z – Forgot to add message time)			MON
4364//8073	Call Sign XSV85					
	1143 - 1146z	01 Sep	NR 0758 CK 304 35 0901 1625 BT	(Remote tuner New Zealand)	JPL	FRI
	1130 - 1144z	07 Sep	NR 0790 CK 97 35 0907 1542 BT BT	(Remote tuner China)	JPL	THU
			NR 0791 CK 49 35 0907 1544 BT BT		JPL	THU
	1130 - 1138z	09 Sep	NR 0795 CK 188 35 0909 1603 BT BT	(Remote tuner China)	JPL	SAT
	1134 - 1141z	14 Sep	NR 0825 CK 248 35 0914 1548 BT BT BT	(Remote tuner China)	JPL	THU
	1130 - 1137z	28 Sep	NR 0867 CK 160 35 0928 1531 BT	(Remote tuner China)	JPL	THU
	1138 - 1151z	16 Oct	NR 0946 CK 236 35 1016 1603 BT	(Remote tuner China)	JPL	MON
			Note: Checked 8073 at 1202z & found XSV85 to be sending Q26 AND CW at the same time.			

4399	**05 05 05**			JPL	TUE
	1256 (IP) - 1322z	31 Oct	NR .OC125 CLS33 DATE 1031 TIME .957 RMKS CQ 5365 TO 464. TO 5365 / QSL ?		
			NR 05 CK 25 CLS33 DATE 1031 TIME 2.21 RMKS .4648 TO 5365 TO 4648 K III QSA ?		
4530	**1**214 (IP) - 1233z	18 Sep	NR 016/CCK CK 91 81 0918 2000 RMKS 3476 TO 5339 K (Remote China)	JPL	MON
4535	1111 (IP) - 1114z	19 Sep	/CCK CK 91 45 0919 1900 RMKS BT 2996 TO 3908 AR K (Remote China)	JPL	TUE
4747	1335 - 1351z	10 Sep	NR 1475/CCK CK 9194 0910 2100 RMKS BT (Remote tuner China)	JPL	SUN
5700	0748(IP) - 0833z	07 Sep	7G NR 182/CCK CK 19 03 0907 1547 RMKS 7546 TO 8344 K (Remote South Korea)	JPL	THU
			7G NR 183/CCK CK 19 03 0907 1557 RMKS 7546 TO 8347 K	JPL	THU
			NR 184/CCK CK 19 03 0907 16 .5 RMKS 7546 TO 8398 K	JPL	THU
7553//9153	Call sign XSV70				
	0918 - 1120z	03 Sep	NR 7.9 CK 1.2 35 0903 1.7. (Remote tuner New Zealand)	JPL	SUN
	1301 - 1327z	07 Oct	NR 924 CK 75 35 1007 1507 (Remote tuner South Korea)	JPL	SAT
			NR 925 CK 148 35 1007 1507	JPL	SAT
8073	Usual format is Initial call-up in voice USB, then to digital 4+4 mode LSB, finally, switching to CW				
	CW call-up is V BNGC (x3) DE XSV85 (x2) All logged via Remote tuner Hong Kong unless stated.				
	1605z	03 Sep	Too weak/noisy to copy message (Remote tuner New Zealand)	JPL	SUN
	1130 - 1157z	06 Sep	NR 0784 CK 45 35 0906 1606 BT (Remote tuner South Korea)	JPL	WED
			NR 087 CK 15 35 0906 1656 BT	JPL	WED
	1134 - 1141z	18 Sep	NR 0838 CK A40 35 09A8 A546 BT (Remote tuner New Zealand)	JPL	MON
8130	**HPQS DE RTLC**				
	0826 - 0834z	16 Oct	NR 08/CCK CK 28 46 1016 1640 RMKS 9974 TO 491344378502 BT (Remote China)	JPL	MON
8235	1128 (IP) - 1133z	18 Sep	NR 71/CCK CK 28 81 0918 11930 RMKS 0718 TO 82688823477 BT (Remote NZ)	JPL	MON
8954	V KB2U(x3) DE 9289 (x2)				
	1203 (IP) - 1212z	02 Oct	NR 028/CCK CK 101 32 1002 2000 RMKS 9289 TO 1464 BT (Remote Siberia)	JPL	MON
9054	Call sign XSV85 All logged via Remote tuner Hong Kong unless stated				
	(See also 4243//9054kHz listing)				
	0936 (IP) - 0942z	12 Oct	NR 91 CK 19 35 1012 1642 BT (Remote tuner New Zealand)	JPL	THU
9153	V BNEC (x3) DE XSV70 (x2)				
	0905 (IP) - 0914z	27 Sep	Too noisy to copy msg (Remote tuner China)	JPL	WED
	0922 (IP) - 0923z	01 Oct	NR 927 CK 07 5 1001 1546 extremely weak (Remote tuner New Zealand)	JPL	SUN
	0948 (IP) - 0953z	12 Oct	NR 940 CK 20. 35 1012 16.0 (Remote tuner New Zealand)	JPL	THU
10999	0705 (IP) - 0711z	04 Oct	MSG NR 2./CCK CK 104 // 0 RMKS ..5. 46 TO .... K (Remote tuner South Korea)	JPL	WED
	1052 (IP) - 1118z	07 Oct	NR 42/CCK CK 99 86 1007 1902 RMKS 17.0 TO 0140 K (Remote New Zealand)	JPL	SAT

M95 4243//9054kHz 1146 - 1205z 01 Sep 2017

NR 012 CK 17 35 0901 1457 BT (IP – Hand sent – 1146z)
5TD UTT TTA 3U6 3A4 356 4TN U7U N4A 444
3DA TTU TT3 773 435 3DU 4D3 AR
MSG AGN
NR 012 CK 17 35 0901 1457 BT
5TD UTT TTA (Cont'd – Repeat message – 1148z)
AR
A HR MSG GA
NR 02 CK 097 35 0901 1626 BT
UTU TTA 3U6 3A4 TTU 773 353 U4T 354 373 (Cont'd – 1150z)
AR
MSG AGN
NR 02 CK 097 35 0901 1626 BT
UTU TTA 3U6 (Cont'd – Repeat message – 1155z)
AR
A HR MSG GA (1200z)
NR 072 CK 20 35 0901 1648 BT
UT5 TTA 3U6 3A4 TTA TTU TT3 773 353 U4T
354 75D 373 4TN 336 N3D 4TA 445 4D3 3DA AR
MSG AGN
NR 072 CK 20 35 0901 1648 BT
UT5 TTA (Cont'd – Repeats message – 1202z)
AR
A HR UP SB WK AR (1204z)
(Switched to voice – USB – Female – Chinese)
(Now V26 sked – 1205z)

M95 4243//9054kHz 1151 - 12200z 16 Oct 2017

AR (IP – Hand sent – 1152Z)
MSG AGN
NR 002 CK 17 35 1016 1530 BT
5TD UTT TA6 3U6 3A4 353 4T3 U7U N4A 445
3DA TTU TT3 773 436 3D3 .D6 AR
A HR MSG GA
NR 004 W EEEEEEE
NR 004 NN EEEEEEE
NR 004 CK 15 35 1016 1EEEEEE
NR 004 CK 15 35 1016 1532 BT
UT5 TA6 3U6 3A4 TTA TTU TT3 773 353 N3D
35U 4UT 446 4D6 3DU AR (1157z)
MSG AGN
NR 004 CK 15 35 1016 1532 BT (Repeats message – 1158z)
AR
A HR MSG GA
NR 32 CK 101 35 1016 1650 BT
ATU TA6 3U6 3A5 TTU 773 353 U4T 354 4T3 (Cont'd – 1201z)
II 445 AR (1208z)
MSG AGN
NR 32 CK 101 35 1016 1650 BT
UTU TA6 3U6 3A4 TTU 773 353 U4T 354 4T3 (Cont'd – 1211z)
II 445 AR (1218z)
A HR UP SB WK (1218z) (Switched to voice – USB – Female – Chinese – Now V26 sked – 1220z)

Courtesy JPL

Oddities

4020kHz Marker

4020	1935z	01 Sep	Air Horn channel marker		USB	AB	FRI

4524kHz Marker

4524	1859z	02 Sep	Channel marker		USB	AB	SAT

6360kHz Marker

6360	0551z	13 Sep	Pulsing signal		USB	chpa	WED
6360	0538z	24 Oct	Pulsing signal (Goose)	Good	USB	chpa	WED
	0558z	27 Oct	Pulsing signal (Goose)	Good	USB	chpa	FRI
	0731z	30 Oct	Pulsing signal (Goose)	Moderate	USB	chpa	MON

S28 'The Buzzer'

4625	0650z	13 Sep	S28	'The Buzzer' Marker		USB	chpa	WED
4625	0535z	24 Oct	S28	'The Buzzer' Marker		USB	chpa	WED
	0605z	27 Oct	S28	'The Buzzer' Marker	Moderate	USB	chpa	FRI
	0732z	30 Oct	S28	'The Buzzer' Marker	Moderate	USB	chpa	MON

S32 'Squeaky Wheel'

5473	0602z	27 Oct	S32	'Squeaky Wheel' marker	Weak	USB	chpa	FRI

Contributors: AB, AnonUS, BR, CB, chpa, Danix, E.SMITH, Gert, HFD, JPL, PLdn, tiNG *Thank you all for your logs.*

Voice, Polytone, Tones, Hybrids and FSK

E06

E06 Sept/October log:

Monday **0210z 11426kHz 0310z 14477kHz**

11/09 '537' 120 35 33558 90081 92476 14902 6199811048 42597.....120 35 00000

18/09 '537' 489 36 77590 87571 43672 25101 11594 39462 74120 40421 44121 84364 23154 74096 84627 95512 61694 79541 69213 73489 68127 01000 55680 65292 42355 37567 12446 52630 66046 38190 62235 14152 32513 44793 66503 91281 94652 25745

Thursday **0300z 13557kHz 0400z 11521kHz**

No reports for September

Thursday **0300z 16219kHz 0400z 13545kHz**

13/10 '361' 509 44 88198 09150 21861 80583 52007 33081 57664 98840 31983 38798 27450 13823 37466 20535 15054 83067 22913 59432 45495 03224 04369 74657 84309 25483 30335 46492 96747 70313 49223 22332 21524 14955 40569 41535 38805 52105 02213 40056 37120 43234 10618 20796 08887 14963 509 44 00000

First /Third Thursday (repeats Friday) 0500z 14370kHz 0600z 16265kHz

07/09 '354' 721 60 …..86309 60262 87924 01987 07324 15498 20702 77675 88813 58417 13698 40033 14362 89219 54416 34082 21544 33169 31061 85282 34911 74226 44465 77950 51797 52846 40823 37672 …..(incomplete log)

21/09 '354' 912 56 02054 71309 73625 01924 34763 19383 88086 02027 60887 11155 18228 36785 93105 55309 08913 12712 50002 49825 50298 56937 23933 15047 11960 31576 71643 40535 45867 92342 26076 37860 19136 96089 52816 16558 62514 86957 99590 25398 45519 15827 12282 26189 14175 72758 15876 92277 52288 37108 83796 48953 52191 75010 44045 97924 05901 15789 912 56 00000

0600z 18425Hz 0700z 20230kHz

05/10 '186' 294 50 17036 60980 62320 29867 60646 48715 29797 13117 15479 62195 25714 94946 34208 95427 48304 82520 07599 52022 39518 80098 04496 88861 22127 68308 36897 85261 64267 20618 11081 42306 94862 74201 50687 42041 18365 97390 02722 21230 02251 20895 62403 39333 35700 24975 77791 45428 82918 99766 20152 73730 294 50 00000

19/10 '186' 379 52 50821 42306 93108 65407 00270 76238 63307 54537 13868 70191 94033 68723 66372 34640 96127 29518 77347 01370 73317 54567 05010 86436 05763 19048 72197 13769 36809 33229 72904 41601 73917 90828 32826 58928 39677 67861 22339 44170 33864 76656 45360 03218 92467 04751 52527 29081 54625 93318 52130 50289 73409 81038 379 52 00000

First/Third Thursday of month 2030z 5186kHz (frequency may vary slightly)

07/09 2029z After ending at 2045z a single "89" has been sent followed by WinXP shutdown-sound. The same electric hum like G06 on Monday appeared for around half a minute. TX switched off at 2051z.Transcript:

'891' R4m 134 57 69834 91020 28974 71856 74832 89648 73282 64825 48142 73848 36457 38491 82713 43143 65689 28756 42351 73145 32424 67857 83273 56425 34245 23246 76879 87435 28184 61547 93671 75364 72825 34732 53426 47589 73647 58326 15264 37485 63542 43557 64536 47586 76453 45684 65783 74859 82736 47382 74651 2763172361 74827 36452 35263 72813 26743 84732 134 57 00000 – all groups repeated. Thank you Thomas Repeated on 21/09

19/10 '891' 149 52 12265……95732 149 52 00000] 2042z S9 (Windows shutdown sound) M8 THR

Friday following First & Third Thursday 2130z 5197kHz

22/09 '634' 134 57 69834 91020 28974……etc (same old message)

06/10 '634' 149 52 12265 10965 47839 38654 84677 93453 72217 84393 04673 97564 01824 75643 84221 95647 92112 94543 76577 43435 47322 84232 95674 87344 57438 45763 49325 57438 92190 96785 21244 05674 01765 76354 83645 21234 97564 82133 07564 83234 75312 71211 05674 65374 67321 94884 23483 82521 41212 57333 85331 53234 05124 95732 149 52 00000

Unscheduled: (normally F06)

1100z 16174kHz 1200z 14855kHz

02/09 '832' 597 42 38909 99078 96903 40530 95076 83683 51196 63673 33124 40164 74902 82228 39593 00962 84253 30960 01096 61183 27262 43873 25447 76449 03601 77186 36320 81115 37797 77586 14825 99457 66099 28340 37559 93154 35164 21824 17829 32006 48301 28476 43457 11239 597 42 00000 (This is normally an F06 schedule) Thanks Daniel and Ary

16/09 '832' 109 48 15739 89082 96903 40530 72806 73697 51196 63673 10954 30178 74902 82228 83749 48869 58213 74925 30740 58957 59833 65334 62407 31019 00303 89335 40262 55914 66687 56719 00601 43473 66038 55749 00992 09390 06784 83920 65921 94619 62351 30091 61024 15161 42374 55429 66702 29248 91059 19258 109 48 00000

Triple timestamp: Friday, September 15, 2017, ~14:20 MSK

Of course it's sending in place of F06 50046 at 1100/1110/1120z on 16174/14855/12214. The three occasions this month and last month when E06 832 transmitted were week 3, week 1, and week 3, respectively. Wonder what that means...???

1830z 13934kHz 1930z 10453kHz

14/09 '836' 104 25 22186 26644 55635 48583 50671 59779 83356 39890 83111 63521 19833 61390 37653 28775 95441 19235 91422 47978 81429 89956 03515 73813 02219 75706 59961] Very strong Danix THU

10/10 **1505z 14931khz 1605 18923kHz**

'759' 268 35 07934 24934 54326 00733 42313 84598 26163 00817 13936 32222 79312 79113 55190 22397 24987 57976 84257 53130 63756 67855 66457 91331 06703 21857 30771 74172 75979 87269 71229 34760 26949 64997 87842 25572 59088 268 35 00000

E06b 10755kHz

Test. E06 Voice. I.D. 975 (x3) 89715 (x1) Repeated. Not followed D.K./G.C. Msg groups repeated twice.
Three times the call up was repeated, each time followed by the msg that abruptly cut out after 10/20 or so groups.
D.K./G.C. read out at the end.

Pieced together the message was this.

30/10 1406z '975' (x3) 89715 (x1) 41390 73934 79428 84153 36074 72241 36300 99800 93698 72047 10545 67482 85114 10545 23973 47141 91274 19247 49863 52836 22752 00533 20223 44645 10690 93884 26283 28237 52010 36813 95128 06272 864 32 00000] 1419z

With thanks to RNGB, Daniel, Ed Smith, Ary

PoSW's logs

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

7-Sept-17, 5,186 kHz, almost missed this one, suddenly realised at around 2032 UTC that this was the first Thursday in September, quickly switched on and tuned in in time to hear call "891" followed by DK/GC "134 134 57 57", so not the "149 52" message which has been used by the majority of these Thursday and Friday E06 and G06 transmissions for almost a year.

21-Sept-17, 5,186 kHz, "891" and "134 134 57 57" again, call-up in progress when tuned in just after 2029 UTC.

5-Oct-17, 5,190 kHz, "891", DK/GC back to the much used "149 149 52 52". Started about one minute before the half-hour, ended 2041:50s UTC, computer shut-down sound at 2042:13, Windows XP? A bit out of date then, "This computer will no longer receive Google Chrome updates because Windows XP and Windows Vista are no longer supported".

19-Oct-17:- 5,186 kHz, "891" and "149 149 52 52" again, over S9.

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

22-Sept-17, 5,197 kHz, start-up times are nominal with these schedules, call-up in progress when tuned in just over a minute before the half-hour, "634", DK/GC "134 134 57 57", strong signal, over S9.

Saturday 1100 + 1200 UTC Schedule:-

An E06 schedule with call "832" has been noted from time to time, does not seem to be confined to any particular Saturday in the month, logged on the second Saturday in the month earlier in the year with a repeat transmission on the Sunday; was heard Sunday 3-September which was no doubt the "next day repeat" of a transmission which had gone out on Saturday the 2nd .

3-Sept-17, Sunday:- 1104 UTC, 16,174 kHz, just caught the end of the "832" call-up, then DK/GC "597 597 42 42", over S9, ended after 1111 UTC.

1200 UTC, 14,855 kHz, second sending, S7 with QSB, no problem in finding.

On Saturday 9-Sept-17 at 1100 UTC on 16,174 kHz there was a wide-shift FSK type signal,
started up on the hour having been a strong carrier beforehand, must be connected in some way with this 832 schedule. E06 returned on the following Saturday:-

16-Sept-17:- 1100 UTC, 16,174 kHz, a very weak signal of some kind, just detectable with the receiver in USB mode, not FSK, carrier did not shift but unable to confirm as E06, much better signal one hour later:-
1200 UTC, 14,855 kHz, calling "832", S4 to S5 at best, DK/GC "109 109 48 48", not the same message as two weeks earlier but strangely perhaps, five of the 5F groups were the same occupying the same position in both transmissions:- group No. 3, "96903; No 4, "40530"; No 7, "51196 ; No 8, "63673", and group No 12, "82228".

17-Sept-17:- 1100 UTC, 16,174 kHz, the expected "next day repeat" first sending, a much stronger signal than just twenty-four hours earlier, S8 with QSB.
1200 UTC, 14,855 kHz, second sending, over S9 for most of the transmission.

E07

We start with PoSW's logs then on to others' logs:

Sunday + Wednesday Schedule, 1700 UTC Start:-
3-Sept-17, Sunday:- 1700 UTC, 13,527 kHz, "526 526 526 000", peaking S9 with reasonable audio, slight interference from the rapidly swept carrier which resides here, Single Letter Transmission CW cluster on close frequency, "C" and "S" the strongest.
1720 UTC, 12,227 kHz, second sending, also S9. In the event of a "full message" being transmitted by this schedule we may confidently expect the third sending at 1740z to be on 10,627 kHz, as in September of the past few years.

6-Sept-17, Wednesday:- 1720 UTC, 12,227 kHz, second sending, "526 526 526 000", S9 with QSB, reasonable audio.

10-Sept-17, Sunday:- 1700 UTC, 13,527 kHz, "526 526 526 000", S8, SLT "C" and "S" in attendance.
1720 UTC, 12,227 kHz, S9.

13-Sept-17, Wednesday:- 1700 UTC, 13,527 kHz, and 1720 UTC, 12,227 kHz, both S8 to S9, "526 526 526 000".

20-Sept-17, Wednesday:- 1700 UTC, 13,527 kHz, "526 526 526 1" for a "full message", DK/GC "166 75" x 2, S9 signal with reasonable audio, interference from the sweeping carrier, SLT "C" and "S" as always.
1720 UTC, 12,227 kHz, and 1740 UTC, 10,627 kHz, both peaking S9 with QSB, the repeats.

27-Sept-17, Wednesday:- 1700 UTC, 13,527 kHz, "526 526 526 1", DK/GC "738 78" x 2,
over S9 with reasonable audio, swept carrier and SLT "C" and "S" as usual.
1720 UTC, 12,227 kHz, over S9 with QSB.
1740 UTC, 10,627 kHz, S8 with deep QSB, weakest sending of the three.

1-Oct-17, Sunday:- 1700 UTC, 13,376 kHz, "317 317 317 000", over S9 with good audio.
1720 UTC, 12,176 kHz, second sending, also over S9.

11-Oct-17, Wednesday:- 1700 UTC, 13,376 kHz, "317 317 317 1" for a "full message", DK/GC "769 102" x 2. Over S9 with good audio, faint audio tone heard underneath, dropping slightly in frequency on peaks of speech, has been observed a few times in the past on E07 AM transmissions - a bit of self-oscillation in the modulator?
1720 UTC, 12,176 kHz, second sending, over S9, audio lower than first sending, no sign of underlying tone.
1740 UTC, 10,776 kHz, third sending, over S9 with reasonable audio.

15-Oct-17, Sunday:- 1700 UTC, 13,376 kHz, "317 317 317 000", weak signal.
1720 UTC, 12,176 kHz, stronger, S6 to S7.

22-Oct-17, Sunday:- 1700 UTC, 13,376 kHz, "317 317 317 1" for a "full message", DK/GC
"206 82" x 2, over S9, much stronger signal than last Sunday.
1720 UTC, 12,176 kHz, and 1740 UTC, 10,776 kHz, both peaking over S9.

25-Oct-17, Wednesday:- 1700 UTC, 13,376 kHz, "317" and "206 82" as on Sunday, over S9.
1720 UTC, 12,176 kHz, and 1740 UTC, 10,776 kHz, both S9 or over.

Thursday Schedule, 2010 UTC Start:-
21-Sept-17:- 2010 UTC, 9,387 kHz, "358 358 358 000", very strong broadcast station on 9,390, reasonable copy from E07 with the receiver in LSB mode.
2030 UTC, 7,526 kHz, second sending, S9 with QSB, audio low but readable.

28-Sept-17:- 2010 UTC, 9,387 kHz, weak signal in contrast with Radio Thailand on 9,390 at S9+, E07 carrier did not go off at 2012:30s UTC which suggests "full message" format.
2030 UTC, 7,526 kHz, second sending, weak signal + low audio, unreadable.
2050 UTC, 5,884 kHz, "358 358 358 1", low audio, largely unreadable.

5-Oct-17:- 2010 UTC, 7,516 kHz, "584 584 584 000", S9, audio low.
2030 UTC, 5,836 kHz, Again S9 carrier but with low audio.

12-Oct-17:- 2010 UTC, 7,516 kHz, weak signal with low audio, unreadable, appeared to be "full message" format because the carrier did not go QRT at 2012:30s.
2030 UTC, 5,836 kHz, again weak signal with low audio.

2050 UTC, 4,497 kHz, third sending also weak with low audio.

19-Oct-17:- 2010 UTC, 7,516 kHz, and 2030 UTC, 5,836 kHz, both peaking over S9 with good audio – unlike last Thursday - "584 584 584 000".

26-Oct-17:- 2010 UTC, 7,516 kHz, "584 584 584 000", S9 carrier, audio low, side-band splash from a strong broadcast station on 7,520, not noted before.
2030 UTC, 5,836 kHz, S9 with low audio.

Monday + Wednesday SSB Schedule, 1900 UTC Start:-
4-Sept-17, Monday:- 1900 UTC, 14,584 kHz, very weak signal, unreadable.
1920 UTC, 13,384 kHz, a much stronger signal, S7 to S8, "535 535 535 1", DK/GC "678 83" x 2, same message as first heard in the early days of August, starts "50183 98199 52060 ….".
1940 UTC, 11,584 kHz, third sending, over S9, strong signal, just three Megacycles per second lower than the 1900z transmission which did not even move the "S" meter.

6-Sept-17, Wednesday:- 1900 UTC, 14,584 kHz, "535" and "678 83" again, but what a difference in signal strength from only two days ago; this was peaking well over S9.
1920 UTC, 13,384 kHz, and 1940 UTC, 11,584 kHz, the repeats, both over S9.

13-Sept-17, Wednesday:- propagation must be unusually bad this evening, no readable signals on any of the three frequencies, also very weak on Monday 18-Sept.

20-Sept-17, Wednesday:- the 1900z and 1920z transmissions too weak to make any sense of, somewhat better at 1940:-
1940 UTC, 11,584 kHz, "535 535 535 1", DK/GC "297 112" x 2, wide variations in signal strength, at times up to S5 or S6 then fading down to become almost unreadable.

25-Sept-17, Monday:- 1900 UTC, 14,584 kHz, "535 535 535 000", reasonable signal from this first sending for a change reaching the dizzy heights of S5 to S6.
1920 UTC, 13,384 kHz, peaking S7.

27-Sept-17, Wednesday:- 1900 UTC, 14,584 kHz, and 1920 UTC, 13,384 kHz, both weak but clear, "535 535 535 000".

2-Oct-17, Monday:- 1900 UTC, 11,539 kHz, "511 511 511 000", S7.
1920 UTC, 10,139 kHz, second sending, peaking over S9.

4-Oct-17, Wednesday:- 1900 UTC, 11,539 kHz, "511 511 511 000", up to S9 with QSB.
1920 UTC, 10,139 kHz, second sending, inside 30 metre amateur band, some kind of digital communication on close frequency.

9-Oct-17, Monday:- 1900 UTC, 11,539 kHz, "511 511 511 000", S9 signal. Vanished suddenly at around 1902 UTC when the "no message" transmission was close to the ending; came back after a few seconds and sent the routine again finishing at 1904:17s UTC.
1920 UTC, 10,139 kHz, no problems here.

16-Oct-17, Monday:- 1900 UTC, 11,539 kHz, a very weak signal of some kind, unable to confirm as E07.
1920 UTC, 10,139 kHz, just about readable, "511 511 511 000", propagation must have changed since last week.

18-Oct-17, Wednesday:- Both 1900 UTC and 1920 UTC too weak to confirm E07.

23-Oct-17, Monday:- 1900 UTC, 11,539 kHz, and 1920 UTC, 10,139 kHz, both S6, best signal from this schedule for a while, "511 511 511 000".

25-Oct-17, Wednesday:- 1900 UTC, 11,539 kHz, weak signal, and 1920 UTC, 10,139 kHz, much stronger, S7 to S8, "511 511 511 000".

Saturday + Sunday SSB Schedule, 0600 UTC Start:-
2-Sept-17, Saturday:- 0600 UTC, 9,064 kHz, "024 024 024 1", DK/GC "830 27" x 2, a relatively short message, ended just after 0605 UTC. No change in frequencies from those that have been in use since April.
0620 UTC, 10,264 kHz, second sending, underneath a strong "XJT" which has been noted several times on this transmission over the months.
0640 UTC, 11,464 kHz, third sending, over S9 on a clear frequency.

3-Sept-17, Sunday, 9,064 kHz, "024" and "830 27" again, up to S9 but fading right down at times.
0620 UTC, 10,264 kHz, second sending, S8 and no trouble from the noise-maker which was on yesterday.
0640 UTC, 11,464 kHz, S8 to S9.

9-Sept-17, Saturday:- 0600 UTC, 9,064 kHz, "024" and "830 27", as last weekend.
0620 UTC, 10,264 kHz, and 0640 UTC, 11,464 kHz, the repeats, both S9 on clear frequencies.

16-Sept-17, Saturday:- 0600 UTC, 9,064 kHz, "024" and "830 27" again, weak signal.
0620 UTC, 10,264 kHz, S6 to S7, and 0640 UTC, 11,464 kHz, S7 at first then came up to S9, the repeats.

30-Sept-17, Saturday:- 0600 UTC, 9,064 kHz, "024 024 024 1", DK/GC "725 85" x 2.
0620 UTC, 10,264 kHz, second sending, the strong "XJT" roaring away again on this frequency, E07 winning for most of the time.
0640 UTC, 11,464 kHz, peaking over S9, best signal of the three.

1-Oct-17, Sunday:- 0600 UTC, 9,064 kHz, "024" and "725 85" again, weak signal.
0620 UTC, 10,264 kHz, S7 to S8, no "XJT" this morning.
0640 UTC, 11,464 kHz, S8 to S9.

7-Oct-17, Saturday:- 0600 UTC, 9,064 kHz, "024" and "725 85" again, S9 signal.
0620 UTC, 10,264 kHz, peaking S9, no "XJT".
0640 UTC, 11,464 kHz, over S9.

14-Oct-17, Saturday:- 0600 UTC, 9,064 kHz, "024 024 024 000", this "no message" routine not too common on this weekend schedule, S9 signal.
0620 UTC, 10,264 kHz, second sending, slightly weaker.

15-Oct-17, Sunday:- 0600 UTC, 9,064 kHz, and 0620 UTC, 10,264 kHz, “024....000” again.

21-Oct-17, Saturday:- 0620 UTC, 10,264 kHz, “024 024 024 000”.

Others’ logs:

Sunday/Wednesday

September 2017

1700z	**13527kHz**	**1720z**	**12227kHz**	**1740z**	**10627kHz**	
03/09	526 000					Strong
06/09	526 000					Strong
10/09	526 000					Weak
13/09	526 000					Fair
17/09	526 1 166 75 53779 ... 23794 000 000					Very strong

October 2017

1700z	**13376kHz**	**1720z**	**12176kHz**	**1740z**	**10776kHz**	
04/10	317 000					Fair/Strong
08/10	317 1 769 102 78900 ... 16861 000 000					Fair
11/10	317 1 769 102 78900 ... 16861 000 000					Fair

Noisy AM transmission as outlined by Ary:

317 317 317 317 1 769 102 769 102
78900 47352 51537 91489 59450 56542 22811 44088 00665 59960
61143 69162 33469 30074 21267 36629 34294 45292 41632 98329
94428 52868 33044 93958 72652 87813 92319 01557 48074 39173
31119 37466 39504 98118 41331 26358 05233 97802 96141 44923
13870 28531 50307 22679 82921 61910 11219 03223 13986 84509
88508 78526 74597 24672 56958 78794 74173 0770 stops
Returns with a clean signal and starts with group 52
317 317 317 1
78526 74597 24672 56958 78794 74173 07702 20797 21064 42590
73076 15890 25082 32600 33583 82535 30758 61026 50065 36439
24793 15817 11066 02341 97408 37742 26387 60315 55043 23169
67865 46162 46721 05731 82761 12689 83446 22506 21426 73918
17358 60662 12815 17763 26811 27027 47199 84386 80379 34812
16861 000 000

15/10	317 000		Weak
18/10	NRH		
25/10	317 1 206 82 31246 ... 75540 000 000		Very strong

Sunday/Saturday

September 2017

0600z	**9064kHz**	**0620z**	**10264kHz**	**0640z**	**11464kHz**	
02/09	024 1 830 27 94042 … 73698 000 000					Very strong
03/09	024 1 830 27 94042 … 73698 000 000					Fair, local QRM3

024 1 830 27
94042 06490 80406 92318 34904 28115 50448 04113 07094 22636
44930 66114 44955 70909 06347 80406 96373 14003 84066 51961
21440 77280 10211 77853 81632 05708 73698
000 000 [*Courtesy AB/PLdn*]

09/09	0600/0640z NRH Propagational, 0620z Just audible, unworkable		
10/09	024 1 (830 27) 94042 ... 73698 000 000	[0620/0640z NRH]	Weak, QRN3/4
16/09	024 1 830 27 94042 ... 73698 000 000		Very strong
17/09	Weak, unworkable, poor conditions		
23/09	024 1 830 27 94042 ... 73698 000 000		Very strong
30/09	024 1 725 85 nnnnn ... 01778 000 000	[0620/0640z Unworkable]	Weak, QSB3/5

October 2017

01/10	024 1 725 85 08654 ... 01778 000 000	[0620/0640z Unworkable] Weak
07/10	024 1 725 85 08354 ... 01778 000 000	Very strong
08/10	024 1 725 85 08354 ... 01778 000 000	Very strong
14/10	024 000	[0620z Fair] Very strong
15/10	024 000	[0620z NRH] Fair, QSB to nil
21/07	024 000	Very strong
22/10	024 000	Fair
29/10	024 1 942 128 80908 ... 40182 000 000	[0600/0620z unworkable QSB5] Strong (15m16s lg)

Monday/Wednesday
September 2017

1900z	**14584kHz**	**1920z**	**13384kHz**	**1940z**	**11584kHz**	
04/09	535 1 678 83 50183 ... 42185 000 000				[1900z Weak]	Very strong
06/06	535 1 678 83 50183 ... 42185 000 000					Very strong
11/09	535 1 922 97 57940 ... 02192 000 000				[1940z Strong]	Very strong
13/09	535 1 922 97 57940 ... 02192 000 000					Very weak
18/09	535 1 297 112 04760 ... 55209 000 000					Weak

October 2017

1900z	**11359kHz**	**1920z**	**10139kHz**	**1940z**	**9139kHz**	
04/10	511 000					Fair/Strong
09/10	511 000					Fair/Strong
11/10	511 000				[1920z NRH]	Very strong
18/10	511 000				[1900z Unworkable]	Weak
23/10	511 000					Strong
25/10	511 000					Strong

Tuesday/Friday

September 2017

1100z	**18438kHz**	**1120z**	**16338kHz**	**1140z**	**14938kHz**	
05/09	439 000					Weak
08/09	NRH Propagational					
15/09	NRH Propagational					

October 2017

1100z	**17471kHz**	**1120z**	**15871kHz**	**1140z**	**13971kHz**	
10/10	489 000					Fair
13/10	489 000					Weak
20/10	489 000					Fair/strong
20/10	489 000					Fair
24/10	489 1 1797 80 74824 ... 83921 000 000					Fair

489 1 1797 80
74824 58455 99415 41918 33771 08220 92852 42964 26602 44379
23838 87673 25689 70114 02595 29714 80707 01169 59003 58159
12049 51277 65061 98071 10220 64219 64898 45662 72547 94683
83589 51019 06052 77884 65831 54317 38330 95087 07896 08972
86866 88820 46222 70239 96372 27430 69269 67768 85837 27198
78203 40157 64018 31372 91890 65270 08157 19642 01905 97201
48591 84495 03031 02878 25349 02735 37211 39092 90837 73185
38271 67330 68221 15499 89440 02405 43067 12978 61648 83921
000 000 *Courtesy Edd & Gert*

27/10 489 1 1797 80 74824 ... 83921 000 000 Strong

31/10 489 000 Fair

Thursday

September 2017

2010z 9387kHz 2030z 7526kHz 2050z 5884kHz

07/09 358 1 239 37 05943 ... ????? 000 000 [2010z BCQRM5] Weak

October 2017

2010z 7516kHz 2130z 5836kHz 2150z 4497kHz

05/10 584 000 Very weak

26/10 584 000 [2010zBCQRM3/4] Weak

E07a

Wednesday

September 2017

2000z 8144kHz 2020z 6944kHz 2040z 5744kHz

06/09 197 1 30197 261 53 26677 ... 27391 000 000 Very strong

13/09 197 1 30197 261 53 26677 ... 27931 000 000 Very strong

October 2017

2000z 8144kHz 2020z 6944kHz 2040z 5744kHz

04/10 197 1 38885 6885 43 68876 ... 74454 000 000 Strong

11/10 197 000 Very strong

18/10 197 000 Strong

25/10 197 1 19985 810 42 26559 ... 29906 000 000 Very strong

Thursday

September 2017

0430z 6788kHz 0450z 7488kHz 0510z 8188kHz

07/09 741 1 30197 261 53 26677 ... 27391 000 000 Very strong

741 1 30197 261 53
26677 21885 75718 68807 71181 16656 54350 33071 58140 15548
30190 30664 18845 12293 10769 53246 29673 74730 00987 57755
23991 45079 07379 75300 61451 71008 78503 09560 14285 91623
84527 29533 06894 94647 35772 82364 03052 80523 85754 51054
12563 72315 05391 76949 99772 79798 41988 56264 82577 24002
72198 83225 27391
000 000 [*Courtesy Edd*]

14/09 741 1 30197 261 53 26677 ... 27931 000 000 Very strong

21/09 741 000 Very strong

October 2017

0430z 6788kHz 0450z 7488kHz 0510z 8188kHz

05/10 741 1 38885 6885 43 68876 ... 74454 000 000 Strong

741 1 38885 6885 43
68876 94199 14229 91122 29858 05383 03836 32885 51117 31424
71096 26973 35844 90041 25079 27930 70071 26795 07916 42631
01803 65443 78515 79659 60326 54610 74746 34359 12818 28785
51079 19329 74968 42403 97157 21297 76964 82256 70600 22847
57040 79724 74454 000 000 *Courtesy Ary*

12/10 741 000 Very strong

19/10 741 000 Strong

26/10	741 1 19985 810 47 26559 38861 ... 42569 29906 000 000	Weak

741 1 19985 810 47
26559 38861 55527 03537 34240 97495 62352 57571 70491 09585
61542 99247 16814 38008 01449 76625 84736 45110 40887 73274
45025 71954 39512 83923 32340 79110 46645 31290 29729 38725
47016 40080 80906 57582 63721 01563 72879 04643 24985 45318
91990 17751 57102 31056 74087 42569 29906 000 000
Courtesy Edd

Friday

September 2017

1510z	**10583kHz**	**1530z**	**9383kHz**	**1550z**	**8183kHz**	
08/09	531 000					Weak

October 2017

1510z	**11424kHz**	**1530z**	**10124kHz**	**1550z**	**9124kHz**	
06/10	411 000					Fair/strong
20/10	411 000					Fair
27/10	411 000					Fair

Saturday

September 2017

0800z	**11153kHz**	**0820z**	**12153kHz**	**0840z**	**13453kHz**	
02/09	114 000					Weak
09/09	114 000					Weak
16/09	114 000				[0800z Weak]	Fair
23/09	114 000					Weak

October 2017

0800z	**11484kHz**	**0820z**	**12184kHz**	**0840z**	**13384kHz**	
07/10	413 000					Strong
21/10	413 000					Very strong
28/10	413 000					Strong

PoSW's logs give good comparison of the varying signal strengths over the schedules:

Saturday Schedule, 0800 UTC Start:-

2-Sept-17:- 0800 UTC, 11,153 kHz, "114 114 114 000", S6.
0820 UTC, 12,153 kHz, second sending, up to S8.

9-Sept-17:- 0800 UTC, 11,153 kHz, S7, and 0820 UTC, 12,153 kHz, weaker, "114 114 114 000".

16-Sept-17:- 0800 UTC, 11,153 kHz, "114 114 114 000", weak signal.
0820 UTC, 12,153 kHz, stronger, up to S7.

30-Sept-17:- 0800 UTC, 11,153 kHz, and 0820 UTC, 12,153 kHz, both weak signals, "114 114 114 000".

7-Oct-17:- 0800 UTC, 11,484 kHz, "413 413 413 000", S7.
0820 UTC, 12,184 kHz, peaking S9.

14-Oct-17:- 0800 UTC, 11,484 kHz, and 0820 UTC, 12,184 kHz, "413 413 413 000", both transmissions over S9, unusually strong for this schedule.

21-Oct-17:- 0800 UTC, 11,484 kHz, and 0820 UTC, 12,184 kHz, "413 413 413 000", over S9 on both transmissions.

Wednesday Schedule, 2000 UTC Start:-

6-Sept-17:- 2000 UTC, 8,144 kHz, "197 197 197 1 30197", DK/GC "261 53" x 2, S9+ SSB signal.
2020 UTC, 6,944 kHz, and 2040 UTC, 5,744 kHz, the repeats, both S9+.

13-Sept-17:- 2000 UTC, 8,144 kHz, "197 30197" and "261 53" again, over S9.
2020 UTC, 6,944 kHz, and 2040 UTC, 5,744 kHz, both over S9.

20-Sept-17:- 2000 UTC, 8,144 kHz, “197 197 197 000”, S9+.

27-Sept-17:- 2000 UTC, 8,144 kHz, “197 197 197 1 38885”, DK/GC “6885 43” x 2, S9+.
2020 UTC, 6,944 kHz, and 2040 UTC, 5,744 kHz, the repeats, both also S9+.

4-Oct17:- 2000 UTC, 8,144 kHz, “197 197 197 1 38885” and “6885 43” again, S9+.
2020 UTC, 6,944 kHz, S9+, and 2040 UTC, 5,744 kHz, slightly weaker.

18-Oct-17:- 2000 UTC, 8,144 kHz, and 2020 UTC, 6,944 kHz, both about S9 instead of the more usual S9 + many dB, “197 197 197 000”.

25-Oct-17:- 2000 UTC, 8,144 kHz, “197 197 197 1 19985”, DK/GC “810 47” x 2, over S9.
2020 UTC, 6,944 kHz, and 2040 UTC, 5,744 kHz, both over S9.

E11

E11 log Sept/Oct

5371kHz	0450z	11/09 [416/00]	Ary	MON
5844kHz	1730z	02/09 [402/00]	Ary	SAT
	1730z	06/09 [406/00] Out 1733z S7	Malc	WED
	1730z	09/09 [400/00] Out 1733z S4	Malc	SAT
	1730z	13/09 [404/00] Out 1733z S7	Malc	WED
	1730z	16/09 [408/00] Out 1733z S4	Malc	SAT
	1730z	23/09 [404/00] Strong	RNGB	SAT
	1730z	04/10 [400/00] Out 1733z S7	Malc, Thomas	WED
	1730z	07/10 [403/00] Out 1733z S8	Malc	SAT
	1730z	11/10 [405/00] Out 1733z S9	Malc	WED
	1730z	14/10 [402/00] Out 1733z S8	Malc	SAT
	1730z	25/10 [409/00] Out 1733z S9	Malc	WED
	1730z	28/10 [405/00] Out 1733z S9	Malc, Ed Smith	SAT
6397kHz	1605z	03/09 [233/00] Out 1608z S3	Malc, RNGB	SUN
	1605z	05/09 [232/00] Out 1608z S3	Malc, Thomas	TUE
	1605z	12/09 [235/00] Out 1608z S6	Malc	TUE
	1605z	17/09 [231/00] Out 1608z S7	Malc	SUN
	1605z	03/10 [230/00] Out 1608z S8	Malc	TUE
	1605z	08/10 [231/00] Out 1608z S9	Malc	SUN
	1605z	17/10 [238/00] Out 1708z S8	Malc	TUE
	1605z	24/10 [231/00] Out 1608z S6	Malc	TUE
	1605z	31/10 [237/00] Out 1608z S9	Malc	TUE
6804kHz	0820z	04/09 [432/00] Fair	RNGB	MON
	0820z	07/09 [431/00] Out 0823z S4	Malc	THU
	0820z	11/09 [436/00] Out 0823z S2	Malc, RNGB	MON
	0820z	14/09 [435/00] Out 0823z S2	Malc	THU
	0820z	18/09 [431/00] Out 0823z S5	Malc, RNGB	MON
	0820z	09/10 [439/00] Out 0823z S6	Thomas, Malc	MON
	0820z	19/10 [430/00] Out 0823z S5	Malc, RNGB	THU
	0820z	23/10 [436/00] Good	RNGB	MON
	0820z	26/10 [438/00] Out 0823z S3	Malc	THU
	0820z	30/10 [435/00] Out 0823z S4	Malc	MON
6807kHz	0930z	14/09 [270/00] Good	RNGB	THU
	0930z	20/09 [279/00] Good	RNGB	WED
	0930z	14/09 [270/000 Out 0933z S2	Malc	THU
	0930z	21/09 [277/00]	RNGB	THU
	0930z	27/09 [275/00] Fair	RNGB	WED
	0930z	04/10 [277/00] Out 0933z S3	Malc	WED
	0930z	05/10 [279/00] Out 0933z S2	Malc	THU
	0930z	11/10 [270/00] Out 0933z S3	Malc, Thomas	WED
	0930z	25/10 [273/00] Out 0933z S3	Malc	WED
	0930z	26/10 [279/00] Out 0930z S3	Malc	THU
7377kHz	2000z	01/09 [570/00] Out 2003z S8	Malc , Ary	FRI
	2000z	15/09 [570/00] Out 2003z S9	Malc	FRI
	2000z	06/10 [574/00]	Thomas	FRI
	2000z	20/10 [576/00] Out 2003z S2	Malc	FRI
	2000z	27/10 [577/00] Out 2003z S2	Malc	FRI

7727kHz	1205z	20/09 [460/00] Good	RNGB	WED
	1205z	03/10 [469/00] Fair	RNGB	TUE
	1205z	18/10 [460/00] Out 1208z S4	Malc	WED
	1205z	24/10 [460/00] Out 1208z S8	Malc	TUE
	1205z	25/10 [463/00] Out 1208z S9	Malc	WED
	1205z	31/10 [461/00] Out 1208z S2	Malc	TUE
7840kHz	1000z	01/09 [305/00] Out 1003z S5	Malc	FRI
	1000z	05/09 [300/00]	Ary	TUE
	1000z	08/09 [309/00] Out 1003z S2	Malc	FRI
	1000z	15/09 [304/00] Out 1003z S3	Malc	FRI
	1000z	22/09 [306/00] Good	RNGB	FRI
	1000z	03/10 [308/00]	Thomas, RNGB	TUE
	1000z	06/10 [307/00] Out 1010z S4	Malc	FRI
	1000z	17/10 [307/00] Good	RNGB	TUE
	1000z	20/10 [309/00] Out 1003z S3	Malc	FRI
	1000z	24/10 [305/00] Out 1003z S2	Malc	TUE
	1000z	27/10 [309/00] Out 1003z S3	Malc	FRI
	1000z	31/10 [308/00] Out 1003z S2	Malc	TUE
7864kHz	1730z	26/10 [410/00] Out 1733z S8	Malc	THU
8102kHz	0710z	03/09 [492/00] Out 0713z S2	Malc	SUN
	1045z	05/09 [576/00]	Ary	TUE
	0710z	09/09 [498/00]	Ary, Malc	SAT
	0710z	10/09 [490/00] Out 0713z S2	Malc	SUN
	1045z	19/09 [571/00]	RNGB	TUE
	0710z	23/09 [495/00] Good	RNGB	SAT
	1045z	03/10 [570/00]	Thomas	TUE
	0710z	08/10 [491/00] Good	RNGB	SUN
	1045z	17/10 [570/00] Strong	RNGB	TUE
	0710z	21/10 [498/00] Out 0713z S4	Malc	SAT
	1045z	24/10 [576/00] Out 1048z QSA2	Ed Smith	TUE
	1000z	31/10 [577/00] Out 1048z S3	Malc	TUE
8186kHz	2005z	02/09 [366/00] Out 2008z S7	Malc , RNGB	SAT
	2005z	03/09 [367/00] Out 2008z S7	Malc	SUN
	2005z	09/09 [368/00] Out 2008z S7	Malc	SAT
	2005z	10/09 [363/00] Out 2008z S5	Malc	SUN
	2005z	16/09 [360/00] Out 2008z S2	Malc	SAT
	2005z	17/09 [367/00] Out 2008z S7	Malc	SUN
	2005z	07/10 [369/00] Out 2008z S7	Malc	SAT
	2005z	08/10 [366/00] Out 2008z S6	Malc	SUN
	2005z	14/10 [363/00] Out 2008z S3	Malc	SAT
	2005z	15/10 [363/00] Out 2008z S2	Malc	SUN
	2005z	29/10 [364/00] Out 2008z S9	Malc	SUN
8530kHz	1910z	10/09 [614/00] Out 1913z S4	Malc	SUN
	1910z	15/09 [616/00] Out 1913z S3	Malc	FRI
	1910z	17/09 [616/00] Out 1913z S9	Malc	SUN
	1910z	22/09 [617/00]	Gary H	FRI
	1910z	01/10 [616/00]	Gary H	SUN
	1910z	15/10 [613/00] Out 1913z S3	Malc	SUN
	1910z	20/10 [617/00] Out 1913z S6	Malc	FRI
	1910z	27/10 [618/00] Out 1913z S2	Malc	FRI
	1910z	29/10 [618/00] Out 1913z S9	Malc	SUN
9200kHz	0805z	02/09 [314/00]	RNGB	SAT
	0805z	03/09 [315/00] Out 0805z S4	Malc	SUN
	0805z	09/09 [310/00] Fair	RNGB	SAT
	0800z	10/09 [315/00] Out 0803z S4	Malc	SUN
	0805z	17/09 [310/00] Out 0808z S6	Malc, RNGB	SUN
	0805z	30/09 [314/00] Good	RNGB	SAT
	0805z	01/10 [313/00]	Thomas	SUN
	0805z	14/10 [315/00] Good	RNGB	SAT
	0805z	15/10 [310/00] Out 0808z S2	Malc	SUN
	0805z	21/10 [310/00] Out 0805z	Ed Smith	SAT
	0805z	28/10 [310/00] Out 0808z S4	Malc	SAT
	0805z	29/10 [311/00] Out 0808z S5	Malc	SUN

9399kHz	0900z	04/09 [535/00] Good	RNGB	MON
	0900z	06/09 [532/00] Out 0903z S2	Malc	WED
	0900z	11/09 [535/00] Out 0903z S6	Malc	MON
	0900z	18/07 [534/00] Out 0903z S3	Malc	MON
	0900z	09/10 [537/000 Out 0903z S3	Malc, RNGB	MON
	0900z	11/10 [532/00] Out 0903z S3	Malc, Thomas	WED
	0900z	18/10 [533/00] Out 0903z S4	Malc	WED
	0900z	23/10 [537/00] Out 0903z S5	Malc	MON
	0900z	25/10 [533/00] Out 0903z S4	Malc	WED
	0900z	30/10 [535/00] Out 0903z S6	Malc	MON
9963kHz	0710z	05/09 [635/00]	Ary, RNGB	TUE
	0710z	08/09 [635/00] Out 0713z S3	Malc, RNGB	FRI
	0710z	12/09 [637/00] Out 0713z S2	Malc	TUE
	0710z	15/09 [639/00]	RNGB, Malc	FRI
	0710z	29/09 [639/00] Fair	RNGB	FRI
	0710z	03/10 [631/00] Strong	RNGB	TUE
	0710z	06/10 [635/00] Out 0713z S6	Malc	FRI
	0710z	10/10 [637/00] Out 0713z S5	Malc	TUE
	0710z	13/10 [635/00]	RNGB	FRI
	0710z	17/10 [634/00] Good	RNGB	TUE
	0710z	20/10 [634/00] Out 0713z S4	Malc	FRI
	0710z	31/10 [630/00] Out 0713z S5	Malc	TUE
10213kHz	0745z	04/09 [261/00] Fair	RNGB	MON
	1705z	13/09 [395/00] Out 1708z S6	Malc	WED
	1705z	16/09 [394/00] Out 1708z S9+10	Malc	SAT
	1705z	27/09 [396/00] Out 1708z	Thomas	WED
	0745z	02/10 [264/00]	RNGB	MON
	0745z	09/10 [268/00] Out 0748z S6	Malc	MON
	1705z	14/10 [392/00] Out 1708z S9	Malc	SAT
	1705z	18/10 [399/00] Out 1708z S5	Malc	WED
	1705z	21/10 [395/00] Out 708z S2	Malc	SAT
	0745z	23/10 [269/00] Out 0748z S8	Malc	MON
	1705z	25/10 [393/00] Out 1708z S9	Malc	WED
	0745z	30/10 [264/00] Out 0748z S9	Malc	MON
10246kHz	0845z	12/09 [151/00] Out 0848z S6	Malc	TUE
	0845z	14/09 [151/00] Good	RNGB, Malc	THU
	0845z	21/09 [159/00]	RNGB	THU
	0845z	28/09 [156/00]	RNGB	THU
	0845z	05/10 [152/00] Out 0848z S7	Malc	THU
	0845z	19/10 [155/00] Out 0848z S5	Malc	THU
	0845z	24/10 [154/00] Out 0848z S3	Malc	TUE
	0845z	26/10 [159/00] Out 0848z S3	Malc	THU
	0845z	31/00 [153/00] Out 0848z S5	Malc	TUE
10302kHz	1300z	07/09 [580/00] Out 1303z S9	Malc, RNGB	THU
	1300z	09/09 [581/00] Out 1303z S7	Malc	SAT
	1300z	14/09 [588/00] Good	RNGB	FRI
	1300z	05/10 [587/00] Fair	RNGB	THU
	1300z	12/10 [585/00]	Gary H	THU
	1300z	19/10 [586/00] Out 1303z S3	Malc, RNGB	THU
	1300z	21/10 [589/00] Out 1303z S9	Malc	SAT
10330kHz	1530z	07/09 [261/00]	Thomas	THU
	1530z	28/09 [266/00]	Gary H	THU
	1530z	26/10 [268/00] Out 1533z S7	Malc	THU
10448kHz	1625z	03/09 [974/00] Out 1628z S7	Malc	SUN
	1625z	13/09 [970/00] Out 1628z S6	Malc	WED
	1625z	17/09 [972/00] Out 1628z S9	Malc	SUN
	1650z	11/10 [972/00] Out 1653z S5	Malc	WED
	1625z	15/10 [975/00] Out 1628z S3	Malc	SUN
	1625z	18/10 [975/00] Out 1628z S9	Malc	WED
	1625z	25/10 [977/00] Out 1628z S3	Malc	WED
10620kHz	1925z	05/09 [557/00] Out 1928z S9	Malc	TUE
	1925z	07/09 [553/00] Out 1928z S9	Malc	THU
	1925z	12/09 [557/00] Out 1928z S4	Malc	TUE
	1925z	17/10 [553/00] Out 1928z S2	Malc	TUE
	1925z	24/10 [557/00] Out 1928z S5	Malc	TUE

	1925z	26/10 [551/00]		Gary H	THU
10800kHz	0645z	05/09 [515/00] Out 0648z S3		Malc	TUE
	0645z	07/09 [518/00]		RNGB	THU
	0645z	12/09 [510/00] Out 0648z S4		Malc	TUE
	0645z	14/09 [510/00] Out 0648z S2		Malc	THU
	1645z	14/09 [332/00] Out 1648z S8		Malc	THU
	1645z	19/09 [338/00] Good		RNGB	TUE
	1645z	03/10 [334/00] Out 1648z S9		Malc	TUE
	0645z	05/10 [512/00] Out 0648z S8		Malc, RNGB	THU
	1645z	05/10 [338/00] Out 1648z S5		Malc	THU
	0645z	10/10 [517/00] Out 0648z S5		Malc , RNGB	TUE
	1645z	10/10 [335/00] Out 1648z S7		Malc	TUE
	0645z	24/10 [510/00] Out 0648z	SDR Enschede.	Ed Smith	TUE
	1645z	24/10 [331/00] Out 1648z S9		Malc	TUE
	1645z	26/10 [332/00] Out 1648z S4		Malc, RNGB	THU
	1645z	31/10 [332/00] Out 1648z S3		Malc	TUE
12153kHz	0640z	04/09 [940/00] Good		RNGB	MON
	0640z	18/09 [949/00] Out 0643z S3		Malc	MON
	0640z	04/10 [949/00] Weak		RNGB	WED
	0640z	09/10 [946/00]		RNGB	MON
	0640z	16/10 [940/00] Weak		RNGB	MON
	0640z	18/10 [945/00] Out 0643z	SDR Enschede	Ed Smith	WED
12530kHz	0820z	12/09 [132/00] Out 0823z S5		Malc	TUE
	0820z	19/09 [135/00] Fair		RNGB	TUE
	0820z	27/09 [135/00] Good		RNGB	WED
	0820z	03/10 [130/00]		RNGB	TUE
	0820z	04/10 [135/00] Good		RNGB	WED
	0820z	18/10 [131/00] Out 0823z S6		Malc	WED
	0820z	24/10 [136/00] Out 0823z S6		Malc	TUE
	0820z	25/10 [134/00] Out 0823z S3		Malc	WED
	0820z	31/10 [134/00] Out 0823z S8		Malc, RNGB	TUE
13046kHz	1345z	05/09 [917/00] Out 1348z S3		Malc	TUE
	1345z	09/09 [917/00] Out 1345z S4		Malc	SAT
	1345z	19/09 [911/00] Weak with QRM		RNGB	TUE
	1345z	07/10 [914/00] Out 1348z S4		Malc	SAT
	1345z	10/10 [917/00] Out 1348z S3		Malc	TUE
	1345z	17/10 [914/00] Out 1348z S5		Malc	TUE
13470kHz	0600z	01/09 [183/00]		Ary	FRI
	1745z	03/09 [249/00] Out 1748z S4		Malc	SUN
	1745z	04/09 [240/001 Out 748z S2		Malc	MON
	1745z	10/09 [249/00] Out 1748z S2		Malc	SUN
	0600z	11/09 [185/00] Weak		RNGB	MON
	1745z	15/10 [242/00] Out 1748z S2		Malc	SUN
	0600z	20/10 [185/00] Out 0603z S2		Malc	FRI
13873kHz	1650z	01/09 [927/00] Out 1653z S5		Malc	FRI
	1650z	03/09 [926/00] Out 1653z S7		Malc	SUN
	1650z	10/09 [925/00] Out 1653z S2		Malc	SUN
	1650z	06/10 [927/00]		RNGB	FRI
	1650z	08/10 [925/001 Out 1653z S3		Malc	SUN
	1650z	20/10 [920/00] Out 1653z S3		Malc	FRI
17410kHz	0745z	01/09 [346/00]		Ary	FRI
	0745z	06/09 [343/00] Out 0748z S4		Malc, RNGB	WED
	0745z	15/09 [342/00]		RNGB	FRI
	0745z	22/09 [347/00]		RNGB	FRI
	0745z	04/10 [340/00] Weak		RNGB	WED
	0745z	06/10 [348/00] Very weak		RNGB	FRI
	0745z	11/10 [346/00] Out 0748z S2	(Dutch SDR)	Malc	WED
	0745z	20/10 [348/00]		RNGB	FRI
20286kHz	1225z	18/09 [527/00]		RNGB	MON
	1225z	09/10 [520/00] Out 1228z S2		Malc	MON
	1225z	27/10 [527/00] Out 1228z S3		Malc	FRI

E11a log Sept/Oct

5371kHz	0450z	04/09 [41?/37 65151 24104 05793 20922 90458 07347 91986 38106……38619 29484]	Ary	MON
5844kHz	1730z	27/09 [404/32 73308 75334 08266 48944 76213 19646 53554 99041…..12031 72041]	Gary H	WED
	1730z	18/10 [405/40 66581 45597 57263 31199 48050 91413 54843……10020 58528] Out 1741z S7	Ed Smith, Malc	WED
	1730z	21/10 [405/40 66581……etc] Repeat of Wednesday S9	Malc	SAT
6397kHz	1605z	10/10 [231/33 54708…….66203] Out 1615z S8	Malc	TUE
	1605z	15/10 [231/33 54708…….66204] Out 1615z S9	Malc	SUN
6804kHz	0820z	02/10 [436/33 56478 27810 95521 23934 88082 07612 19238……02219 12616] Fair	RNGB	MON
	0820z	05/10 [436/33 56478 27810 95521 23934 88082 07612 19238……02219 12616]	Ary, Malc	THU
6807kHz	0930z	07/09 [270/38 49677…….65190] Out 0940z S2	Malc	THU
	0930z	18/10 [270/38 12109……71035] Out 0940z S5	Malc	WED
	0930z	19/10 [270/38 12109……etc] Repeat of Wednesday	Malc	THU
7317kHz	0530z	25/09 [648/36 90811 41757 95505 84798 50685 46157 69486 68866……52249 80881]	Ary	MON
	0530z	26/10 [649/39 92703 36890 95218 97462 61847……54434 77443] Out 0641z KiwiSDR Italy.	Ed Smith	THU
7377kHz	2000z	29/09 [57?/40 47749 25468 68487 03214 22990 59790 77313 96387……24813 93580]	RNGB	FRI
7727kHz	1205z	05/09 [467/41 44174 10032 09351 50883 49427 24089 18028 30383……87498 64944]	Ary	TUE
	1205z	10/10 [463/35 15364 41729 01541 55254 57361 43227 43384……28073 00857] Out 1216z S4	Thomas, Malc	TUE
	1205z	11/10 [463/35 15364 …..etc] Repeat of Tuesday	Malc	WED
7840kHz	1000z	10/10 [306/28 72135……66825] Out 1008z S4	Malc	TUE
7864kHz	1730z	19/10 [412/34 50366……..72291] Out 1740z S8	Malc	THU
8102kHz	0710z	17/09 [495/35 81999……..8577] Out 0720z S2	Malc	SUN
	1045z	10/10 [573/31 41543……03371] Out 0720z S4	Malc	SAT
8186kHz	2005z	21/10 [368/36 25918……49826] Out 2016z S5	Malc	SAT
8530kHz	1910z	01/09 [611/33 03969 61144 40656 85935 23104 26931 12590 70704……04177 94048]	RNGB, Ary	FRI
	1910z	03/09 [611/33 03969….etc] Repeat of Friday	Malc	SUN
	1910z	06/10 [611/31 29781……..20326] Out 1920z S9	Malc	FRI
	1910z	08/10 [611/31 29781 56904 23014 82517 37426 72736 87039…… 42506 20326]	Thomas, Malc	SUN
9200kHz	0805z	23/09 [31?/33 87570 33446 12682 21150 24852 39027 58449 53664……16969 26173] Fair	RNGB	SAT
	0805z	08/10 [316/40 53134……..68454] Out 0816z S4	Malc	SUN
9399kHz	0900z	25/09 [539/60 04903 47291 26470 14786 65407 95127……63287 25709] Out 0915z Good	RNGB, Ary	MON
	0900z	02/10 [537/37 38562 42970 116785 81365 58348 99182 95526 78791……23476 57906]	RNGB	MON
9963kHz	0710z	19/09 [633/32 42345 33327 51391 43400 32464 24816 20778 53473……01435 25695]	RNGB	TUE
	0710z	24/10 [633/35 59987……52871] Out 0720z S4	Malc	TUE
	0710z	27/10 [633/35 59987 25614 58779 79253 28388 06660 57867……97105 52871]	Gert, Malc	FRI
10213kHz	1705z	06/09 [393/38 30012 56334 73845 64427 66930 19726 76960……9558305005] Out 1716z S9+10	RNGB, Malc	WED
	1705z	09/09 [393/38 30012…..etc] Repeat of Wednesday	Malc	SAT
	0745z	18/09 [267/34 91760…….94971] Out 0755z S6	Malc	MON
	1705z	04/10 [396/37 59765…….24326] Out 1715z S9+10	Malc	WED
	1705z	07/10 [396/37 59765 67373 89940 85375 79328 20865 62131……84930 24326] Strong	RNGB	SAT
10246kHz	0845z	05/09 [156/23 19690 61648 43933 38739 22081 60594 39745 83606…… 22551 24881]	Ary	TUE
	0845z	07/09 [156/23 19690……..24881] Repeat of Tuesday	Malc	THU
	0845z	10/10 [154/31 68445……..66028] Out 0854z S4	Malc	TUE
	0845z	12/10 [154/31 68445 66822 71257 16295 89188 54684 30183 64136……20656 66028]	RNGB	THU
10302kHz	1300z	28/09 [585/35 56935 99394 48365 23814 75442 30840 32510 50316……42705 77412]	RNGB	THU
	1300z	30/09 [585/33 56935….etc] Repeat of Thursday	RNGB	SAT
	1300z	28/10 [583/33 72684……37658] Out 1310z S4 QRM	Malc	SAT
10330kHz	1530z	19/10 [269/33 77304 14862 00329 71147 70307 84690 29581……09448 06164]	Gert, Malc	THU
10448kHz	1625z	06/09 [978/39 67125…….03210] Out 1636z S5	Malc	WED
	1625z	10/09 [978/39 67125 62890 65659 65304 89211 46876 24989 42300……28583 03210] Weak	RNGB	SUN
	1625z	04/10 [975/32 68883……70979] Out 1628z S7	Malc	WED
	1625z	08/10 [975/32 68883…..etc] Repeat of Wednesday	Malc	SUN

10620kHz	1925z	26/09 [557/35 66623 84986 62540 30673 62205 37400 97356……07823 98305]	Gary H	TUE
	1925z	10/10 [558/35 66345……..57074] Out 1935z S2	Malc	TUE
	1925z	19/10 [557/00] Out 1928z S2	Malc	THU
10800kHz	1645z	07/09 [332/34 10340 55665 30365 35041 74100 60200 77308 59891……04866] Out 1655z S9	RNGB, Malc	THU
	0645z	17/10 [519/35 51172 78922 20130 79220 54170 64815 08368 73670……14740 97177]	RNGB, Malc	TUE
	0645z	19/10 [519/35 51172…..etc] Repeat of Tuesday	RNGB	THU
	1645z	19/10 [337/33 54643 45076 20092 49498 18086 84681 35858……62168 94863] Out 1648z S2	RNGB, Malc	THU
12153kHz	0640z	11/09 [948/31 67266……41813] Out 0649z S5	Malc	MON
	0640z	23/10 [946/38 07805……71652] Out 0650z S3	Malc	MON
	0640z	25/10 [946/38 07805 28510 91330 64782 29672 80601 01629……86166 71652] Out 0650z	Ed Smith, RNGB	WED
12530kHz	0820z	05/09 [131/31 02446 67943 03898 96221 30111 88296 20536……80229 62118] Out 0830z S3	RNGB, Malc	TUE
	0820z	06/09 [131/31 02446…..etc] Repeat of Tuesday	Malc	WED
	0820z	10/10 [136/38 83722……..15404] Out 0831z S7	Malc	TUE
	0820z	11/10 [136/38 83722……etc] Repeat of Tuesday	Malc	WED
13046kHz	1345z	24/10 [917/37 51197…….4462] Out 1355z S8	Malc	TUE
	1345z	28/10 [917/38 51197…etc] Repeat of Tuesday	Malc	SAT
13470kHz	1745z	08/10 [249/34 12720 14991 02761 49978 53923 56738 01503 73434……85503 35795] Good	RNGB	SUN
13873kHz	1650z	15/09 [922/40 39518……..60333] Out 1701z S3	Malc	FRI
	1650z	17/09 [922/40 39518……etc] Repeat of Friday	Malc	SUN
17410kHz	0745z	25/10 [344/40 95510 84952 85525 14499 77049 88048 05581 48920……66507] Out 0756z S2	RNGB, Malc	WED
	0745z	27/10 [344/40 95510…..etc] Repeat of Wednesday	Malc	FRI
20286kHz	1225z	04/09 [521/35 59460……12136] Out 1235z S4	Malc	MON
	1225z	16/10 [522/34 63900 43626 02632 01586 13614 25534 25632 50890 77574 ……87954 03654]	Gary H	MON

E17z

This is the old E17 training net. Activates very seldomly these days.Usually repeats within 30 minutes on another frequency.
Uses 5140, 5454, 6280, 7635, 8180, and 10240kHz and heard by Tony:

5140kHz 1904z [i/p] 16/09[598 13 37395....] 1910z Strong Topol SAT
598 13
37395 37446 86535 89303 33244
39054 35843 37369 37633 33307
34888 33665 56095
598 598 13
000

The regular slot:

Thursday

September 2017

0800z	**14260kHz**	**0810z**	**12930kHz**	
07/09	674 829 5 52401 63919 93699 14600 74348 839 5 00000			Weak
14/09	674 839 5 52401 63919 93699 14600 74348 839 5 00000	[0800z Unworkable]		Weak

October 2017

Excellent catch by Danix:

10240kHz1525z 06/10 [1525-155z]

1525 UTC: 274
1527 UTC: 22222222222222
1530 UTC: 274 (R) until 1531 UTC
1532 UTC: 274 (R) until 1534 UTC
1535 UTC: 274 (R1m) 958 31 35415 43943 43500 04721 97964 0 and stop
1539 UTC: 274 (R1m) 35415 43943 43500 04721 97964 01368 81379 65520 34869 47985 58139 57818 32007 36759 92939 47480 65296 84713 35678 36744 23375 56927 and stop
1545 UTC: Test tone
1547 UTC: 274 (R1m) 65296 84713 35678 36744 23375 56927 69640 67379 and stop

The message:

274 958 31
35415 43943 43500 04721 97964 01368 81379 65520 34869 47985
58139 57818 32007 36759 92939 47480 65296 84713 35678 36744
23375 56927 69640 67379

Pauses after each 5th group.

Not monitored further.

Thursday transmission:

05/10	674 820 5 51326 41878 48807 29229 32184 820 5 00000	Weak
19/10	674 823 5 19804 96845 22444 08374 98662 823 5 00000	Weak
26/10	674 823 5 19804 96845 22944 08304 98663 823 5 00000	Fair/Weak

E25

On 31st October DRMHZ writes I believe that E25 is having TX problems. No activity has been observed since late August and what seems to be some Thing tests are being heard on 6140kHz AM.
Today, between 0940z and 0942z and again between 0945z and 0946z, music with cuts on transmission was heard.
I'll be monitoring activity on 6140kHz and try to understand what's going on.
audio files available at:

http://cibermundos.net/cibermundos/E25_2017-10-31T09_42_06Z_6140.0kHz.wav

http://cibermundos.net/cibermundos/E25_2017-10-31T09_46_40Z_6140.0kHz.wav

Tnx DRMHZ

G06

PoSW's log, followed by others'

Second + Fourth Thursdays in the Month 1830 UTC Schedule:-
14-Sept-17:- 5,928 kHz, call "579", DK/GC "149 149 52 52", the message of 5F groups which has been used for the majority of transmissions of this schedule for the best part of a year. Over S9, some interference from some CW on a close frequency early on in the transmission, appeared to be hand-keyed. G06 ended after 1842 UTC, computer shut-down sound heard shortly after, followed by audio hum.

28-Sept-17:- 5,934 kHz, "579", DK/GC "241 241 125 125", a long message, most unusual for this schedule. Not the much used fifty-two 5F groups, then; perhaps a real message this evening instead of some kind of training routine. Voice began well over a minute before the half hour, ended after 1853 UTC. Computer shut-down sound at 1854:50 UTC.

12-Oct-17:- 5,934 kHz, "579" and "241 241 125 125" again, started about 15 seconds before the half-hour, ended after 1855 UTC, the now standard computer shut-down sound heard about 20 seconds afterwards.

26-Oct-17:- 5,934 kHz, "579", DK/GC "289 289 54 54", looks like another message which has been used before by G06, 8-June-17 being one instance. Over S9 with QSB, ended 1842 UTC with computer shut-down sound at 1843:50s.

Friday 1930 UTC Schedule following Second + Fourth Thursdays:-
15-Sept-17:- 5,442 kHz, started about 30 seconds before the half-hour, call "947", DK/GC "149 149 52 52" - again. S9 signal, ended after 1942 UTC, computer shut-down about 35s
afterwards followed by hum. Had been noted in pre-transmission warm-up mode with, "111 111 111 00000" at 1841 UTC.

29-Sept-17:- 1928:25s UTC, 5,442 kHz, "947" and "149 149 52 52", so not the long message heard on yesterday's 1830z sending. Ended after 1941 UTC, the now regular computer shut-down sound heard about 25s after.

13-Oct-17:- 5,442 kHz, started about 30s before the half hour, "947" and "241 241 125 125" again, over S9 at first but a few minutes into the transmission started to become much weaker with a rapid flutter as though an auroral disturbance was under way.

First + Second Mondays in the Month 1700 + 1800 UTC Schedule:-
4-Sept-17:- 1700 UTC, about 15 seconds before, 4,613 kHz, calling "563" for a full message, DK/GC "878 878 76 76", weak signal and suffering from local QRM.
1759:20s UTC, 5,460 kHz, second sending, much stronger signal, peaking S9.
Ended after 1822 UTC, computer shut-down sound, as frequently noted at the end of the Thursday and Friday evening G06 and E06 transmissions, heard a few seconds afterwards followed by hum/buzz.

11-Sept-17:- 1759 UTC, 5,460 kHz, "563" and, "878 878 76 76" again. The first sending an hour earlier way down in the noise and unreadable.

2-Oct-17:- 1659 UTC, 4,613 kHz, "563 563 563 00000", in progress when tuned in, stopped around 1702:20s UTC.

1758:10s UTC approx, 5,460 kHz, second sending, well over S9, computer shut-down heard a couple of minutes after the end of transmission.

9-Oct-17:- 1700 UTC, started just a few seconds before the hour, 4,613 kHz, "563 563 563 000", S8 to S9, very strong WEFAX station on the LF side, removed by using the receiver in USB mode.
1800 UTC, minus 12 seconds, 5,460 kHz, over S9.

Others' logs:

September 2017

Monday

0758z ***7320kHz***

1659z **4613kHz** **1759z** **5460kHz**

04/09 563 878 76 58589 ... 74585 563 878 76 00000 Strong

563 878 76
58589 72030 39285 42066 41100 60290 36649 43459 88799 79072
83940 40698 47791 19977 99611 33776 47191 85159 12827 62090
59419 42887 84238 56207 61783 35707 16298 77113 10993 06810
07681 43285 48724 12294 89322 13387 74820 52336 53360 55808
31461 67661 96761 29660 64236 36961 12199 05455 31768 03043
49299 64135 50888 97791 48450 04148 40510 32176 02639 86131
60172 04777 06461 07818 31430 03216 56518 08897 23320 30183
08441 45183 65595 56568 20475 74585
878 76 00000 [*Courtesy tiNG*]

11/09 563 878 76 58589 ... 74585 878 76 00000 Strong

October 2017

0759z **6810kHz**

16/10 329 00000 Weak

1659z **4613kHz** **1759z** **5460kHz**

02/10 563 000 Fair

09/10 563 000 Strong

Wednesday

October 2017

1200z **5874kHz** **1300z** **5254kHz**

11/10 563 000 Weak

Thursday

September 2017

1259z **4598kHz**

21/09 329 00000 Windows shut down sound

October 2017

05/10 329 00000 Windows shut down sound Weak

19/10 329 00000 Weak

1829z **5934kHz**

26/10 579 289 54 12345 ... 72492 579 54 00000 Very strong

S06

Lots of S06 AND S06s RUSSIAN activity as followed by PoSW:

The month of September saw many expected seasonal changes of frequencies as was also the case with other number stations.

S06, OM Voice:-

First + Third Fridays in the Month 1900 + 2000 UTC Schedule:-
1-Sept-17:- 1900 UTC, 9,237 kHz, "514 514 514 00000", S9 with QSB.
2000 UTC, 6,774 kHz, second sending, also S9. These frequencies were used in March and April of this year.

15-Sept-17:- 1900 UTC, 9,237 kHz, "514 514 514 00000", weak signal, hardly moving the pointer, propagation seems to be all over the place these days.
2000 UTC, 6,774 kHz, second sending, not just weak but very weak.

This schedule moved forward by one hour in October:-
6-Oct-17:- 2000 UTC, 9,237 kHz, calling "516" for a "full message", and as we say in this situation, "unusual enough to be worthy of comment". DK/GC "367 367 95 95", quite a long message, ended after 2023 UTC.
2100 UTC, 6,774 kHz, weak signal.

First + Second Saturdays in the Month 1900 + 2000 UTC Schedule:-
2-Sept-17:- 1900 UTC, 4,538 kHz, "913 913 913 00000", S9+, very strong signal.
2000 UTC, 3,899 kHz, second sending, also S9+, again moving to frequencies used in March and April, give or take a few kHz.

This schedule moved forward by one hour in October:-
21-Oct-17:- 2000 UTC, 4,538 kHz, "913 913 913 00000", over S9. Missed the second sending which would have been at 2100 UTC, 10 PM UK time, on 3,899 or thereabouts.

Other S06:-
It is rare to find anything new from the S06 Russian Man but the following was logged in September:-
19-Sept-17, Tuesday:- 0704 UTC, 9,463 kHz, S06 calling "801", just caught the end of the call-up / preamble routine, DK/GC "357 357 22 22", weak signal inside the 31 metre broadcast band, clear copy with the receiver in USB mode. Short message, ended after 0708 UTC. Listened on this frequency at 0700z on 20-Sept, something there, very weak, unable to confirm as S06, also appeared to be something on 9,463 on 21-Sept at the same time, again too weak to confirm.

S06s, YL Voice:-

Monday 0830 + 0840 UTC Schedule, Call "371":-
4-Sept-17:- 0830 UTC, 9,220 kHz DK/GC "408 408 5 5", "62813 36123 84042 36241 93604", signal strength indicating "6".
0840 UTC, 8,270 kHz, second sending, also S6.

25-Sept-17:- 0830 UTC, 9,220 kHz, DK/GC "580 580 6 6", "54921 95004 97644 59013 40142 08354", S7.
0840 UTC, 8,270 kHz, extremely weak signal, unreadable.

2-Oct-17:- 0830 UTC, 9,220 kHz, DK/GC "956 956 8 8", "38034 39477 33367 37555 33300 91480 34850 49855", a group count of "8" not too common.
0840 UTC, 8,270 kHz, peaking over S9.

23-Oct-17:- 0830 UTC, 9,220 kHz, DK/GC "456 456 8 8", another message of eight groups,
"83426 51222 63425 63342 84536 95065 00745 74536", peaking S9.
0840 UTC, 8,270 kHz, also S9.

Monday 0900 + 0910 UTC Schedule, Call "872":-
2-Oct-17:- Nothing heard at 0900 UTC on 14,580 kHz, frequency predicted for the first sending.
0910 UTC, 13,165 kHz, DK/GC "536 536 9 9" - an unusually high number of 5F groups,
"48318 30605 43003 83659 86760 36014 41014 95384 33983", weak signal at first, came up to S6. Normally both transmissions of this schedule are too weak to copy.

Tuesday 0700 + 0715 UTC Schedule, Call "374":-
Not a schedule I have followed in the past in the belief that S06s schedules below about 7,000 kHz are usually too weak to copy; however, the following noted while casually tuning around not expecting to find anything of interest:-
10-Oct-17:- 0719 UTC, 6,930 kHz, just caught the end of the call-up, "851 851 6 6", surprisingly an S9 signal, "35861 33532 89319 32494 37142 30003". Reference to the prediction list suggests 5,760 for the first sending, transmissions separated by fifteen minutes rather than the usual ten.

17-Oct-17:- 0700 UTC, 5,760 kHz, DK/GC "916 916 5 5", "82045 36717 24042 75956 31670", indicating S7, strong enough to over-ride local interference.
0715 UTC, 6,930 kHz, second sending, peaking S8.

24-Oct-17:- 0715 UTC, 6,930 kHz, missed the 0700z, "916 916 5 5", 5Fs as last time, keeping to that fortnightly routine.

Tuesday 0730 + 0740 UTC Schedule, Call "427":-
12-Sept-17:- 0730 UTC, 7,425 kHz, DK/GC "961 961 5 5", "85052 23707 72808 92872 34045", S7.
0740 UTC, 11,560 kHz, second sending, indicating well over S9.

19-Sept-17:- 0730 UTC, 7,425 kHz, DK/GC "903 903 5 5", "84520 52834 95034 44723 950042, over S9.
0740 UTC, 11,560 kHz, also over S9.

26-Sept-17:- 0730 UTC, 7,425 kHz, DK/GC "903 903 5 5", 5Fs same as on the 19th.
0740 UTC, 11,560 kHz, second sending.

3-Oct-17:- 0730 UTC, 7,425 kHz, DK/GC "510 510 6 6", "01368 81379 65520 34869 47985 27700", weak signal.
0740 UTC, 11,560 kHz, stronger, indicating S7 to S8.

10-Oct-17:- 0730 UTC, 7,425 kHz, DK/GC "510 510 6 6", 5Fs as on 3-Oct, S9 signal.
0740 UTC, 11,560 kHz, very strong, S9+ signal.

17-Oct-17:- 0730 UTC, 7,425 kHz, DK/GC "930 930 5 5", "88620 58069 61732 74537 57440", over S9.
0740 UTC, 11,560 kHz, S9+.

24-Oct-17:- 0730 UTC, 7,425 kHz, "930 930 5 5", 5Fs as on 17-Oct, as expected, S8 signal.
0740 UTC, 11,560 kHz, second sending, S9+.

Wednesday 0820 + 0830 UTC Schedule, Call "471":-
6-Sept-17:- 0820 UTC, 8,630 kHz, DK/GC "859 859 6 6", "88554 82045 36171 24042 75956 31670", weak signal, difficult copy.
0830 UTC, 9,255 kHz, second sending, stronger, S7 with QSB.

20-Sept-17:- 0820 UTC, 8,630 kHz, weak signal, DK/GC "296 296 5 5", "18139 57818 32007 36759 97964", strong "XJT" on HF side.
0830 UTC, 9,255 kHz, slightly stronger.

4-Oct-17:- 0820 UTC, 8,630 kHz, DK/GC "265 265 8 8", another transmission with a group count higher than the usual five, six or seven which is more commonly heard from S06s.
"83425 02416 83426 73546 74934 03051 73425 73422", weak signal as always.
0830 UTC, 9,255 kHz, much stronger signal, S9.

25-Oct-17:- 0820 UTC, 8,630 kHz, DK/GC "895 895 6 6", "88620 58069 61732 74537 57440 10597", S7, very strong "XJT" on the HF side.
0830 UTC, 9,255 kHz, second sending a much weaker signal.

Wednesday 1000 + 1010 UTC Schedule, Call "729":-
6-Sept-17:- 1000 UTC, 13,365 kHz, DK/GC "406 406 5 5", "88146 56856 97735 46186 16945", S9 with QSB.
1010 UTC, 14,505 kHz, second sending, much weaker signal, difficult copy.

20-Sept-17:- 1000 UTC, 13,365 kHz, DK/GC "410 410 6 6", "24317 68577 86237 76652 18206 83390", over S9.
1010 UTC, 14,505 kHz, also over S9 this morning.

4-Oct-17:- 1000 UTC, 13,365 kHz, DK/GC "408 408 5 5", "63425 21321 94553 84526 74528, over S9.
1010 UTC, 14,505 kHz, over S9 again.

18-Oct-17:- 1000 UTC, 13,365 kHz, DK/GC 413 413 8 8", "47665 94092 48521 63888 92060 11749 70552 56936", weak signal, became weaker during the course of the transmission.
1010 UTC, 14,505 kHz, S5 at best.

Friday 0930 + 0940 UTC, Schedule, Call "516":-
8-Sept-17:- 0930 UTC, 12,140 kHz, DK/GC "824 824 7 7", "09824 60684 32100 87326 25541 09255 76277", over S9.
0940 UTC, 13,515 kHz, second sending, slightly weaker signal.

15-Sept-17:- 0930 UTC, 12,140 kHz, DK/GC "482 482 7 7", "98539 43324 98306 33149 07660 58672 72400", S8 to over S9 signal.
0940 UTC, 13,515 kHz, slightly weaker signal, the rapidly swept carrier which lives here
very noticeable this morning.

29-Sept-17:- 0930 UTC, 12,140 kHz, "516 516 516 00000", the "no message" routine heard
at the end of the month, this being the fifth Friday in September.
0939:10s UTC, 13,515 kHz, seems to be standard procedure for the second sending of a "no message" transmission to start one minute early for some reason. Weak signal.
Interference from the sweeping carrier.

6-Oct-17:- 0930 UTC, 12,140 kHz, DK/GC "289 289 7 7", "46062 68672 97478 30485 96632 52537 53317", S8 to S9.
0940 UTC, 13,515 kHz, second sending, over S9 easily defeating interference from the swept carrier.

13-Oct-17:- 0930 UTC, 12,140 kHz, "289 289 7 7" and 5Fs as last time, S9+, very strong signal.
0940 UTC, 13,515 kHz, also S9+.

RNGB's excellent and full logs:

S06 log September 2017

Daily Mon- Fri 0400z 15721kHz
No reports

Thursdays (Repeats following day) 0830z 19035kHz 0930z 15645kHz
07/09 '842' 706 39 24407 27171 01575 75743 78568 83678 44561 52594 70741 75833 20260 98190 96650 07026 44521 61300 22671 96808 28472 39324 19666 93811 61805 88512 82851 18817 46955 88605 23639 67717 32589 03993 44379 29006 19849 08722 31964 95519 39786 706 39 00000

14/09 '842' 951 40 79782 98778 86299 97954 08249 53609 43946 08631 98729 16025 28634 07915 38344 49917 76306 32929 74705 78282 01625 30389 83439 64585 23542 78241 45185 41485 27703 91404 42998 41621 39093 78763 16107 10127 03380 43629 30948 03579 00383 44843 951 40 00000

21/09 ‘842’ 367 41 96290 07697 93968 57680 93810 66236 31898 26131 93425 65252 15759 87298 98148 33807 22384 57943 30275 45500 18866 44009 46767 98123 29590 19553 53523 74276 08058 29590 38204 00126 99726 46564 71297 44491 04613 35108 48791 25462 82594 04793 74188 367 41 00000

28/09 ‘842’ 105 42 95450 33217 84384 44883 60650 80685 86007 59080 85337 89732 41799 08289 70096 43711 48670 52832 70203 63524 05743 36332 18922 65847 24200 28746 11230 26525 63025 98797 34763 78831 39056 57989 58629 01282 84786 43382 16064 74683 52370 31340 41879 13110 105 42 00000

Fridays (1st & 3rd) **1900z** **9237khz** **2000z** **6774kHz** (frequencies may vary slightly)
01/09 ‘514’ 00000
15/09 ‘514’ 00000

Saturdays (1st/3rd) **1900z** **4538kHz** **2000z** **3599kHz** (frequencies may vary slightly)
02/09 ‘913’ 00000
16/09 ‘913’ 00000

Other
05/09 2130z 8056kHz
‘726’ 580 31 61099 51206 43222 34381 88833 95827 36614 55382 77244 20824 05895 71236 43518 85933 93778 90609 81446 87423 93201 11158 19226 40872 29978 76578 23463 94907 00247 07584 72796 93089 48640
Should repeat 2230z on 5846kHz and also tomorrow. Thanks Daniel

S06c
No reports

S06s September log:

Monday

4th/11th	0830/0840z	9220/8270	‘371’ 408 5 62813 36123 84042 36241 93604
18th/25th			‘371’ 580 6 54921 95004 97644 59013 40142 08364
11th/18th	0900/0910z	14580/13165	‘872’ 409 5 83427 73428 93425 73417 03527
25th			‘872’ 00000
11th/18th	1200/1210z	9145/11460	‘831’ 962 5 46062 68672 97478 39685 30485
18th/25th			‘831’ 592 6 39510 81692 66516 83314 67291 97361

Tuesday

5th/12th	0600/0610z	15855/16485	‘438’ 275 6 77620 57099 62733 74437 55440 20598
19th/26th			‘438’ 590 6 25969 51248 85711 07524 54921 95004
5th/12th	0700/0715z	5760/6930	‘374’ 518 6 22696 12566 64525 45547 89203 25516
19th/26th			‘374’ 289 5 93012 73428 63923 04045 73418
5th/12th	0730/0740z	7425/11560	‘427’ 961 5 85052 23707 72808 92872 34045
19th/26th			‘427’ 903 5 84520 52834 95034 44723 95004
5th/12th	0800/0810z	11635/10420	‘352’ 879 6 08394 77922 75255 82837 96066 58504
19th/26th			‘352’ 470 6 63823 41527 05637 51232 85637 95035
5th/12th	1000/1010z	6410/7340	‘893’ 216 5 52301 62929 93688 24600 73238
19th/26th			‘893’ 219 6 32908 61538 64070 63723 95648 62045
5th/12th	1100/1110z	6190/7230	‘754’ 839 6 36062 67672 97478 39685 20835 87723
19th/26th			‘754’ 918 6 94053 52714 94630 63412 73429 94538
5th/12th	1500/1510z	6464/7242	‘537’ 428 6 10471 11242 84885 96074 43722 93720
19th/26th			‘537’ 914 6 77568 91253 89412 15734 44748 ?

Wednesday

6th/13th	0730/0740z	11530/12140	‘745’ 281 6 01405 15003 23437 60583 54545 50128
20th/27th			‘745’ 231 6 90509 62507 74488 17901 39510 27700
6th/13th	0820/0830z	8630/9255	‘471’ 859 6 88554 82045 36171 24042 75956 31670
20th/27th			‘471’ 296 5 18139 57818 32007 36759 97944
6th/13th	0830/0840z	9082/9952	‘464’ 819 5 34140 78386 91447 82963 24162
20th/27th			‘464’ 291 5 46062 68672 97478 39685 30485
6th/13th	1000/1010z	13365/14505	‘729’ 406 5 88146 56856 97735 46186 16945
20th/27th			‘729’ 410 6 24317 68577 86237 76652 18206 83390

Thursday

7th/14th (E17z)	0800/0810z	14260/12930	‘674’ 829 5 52401 63919 92699 14600 47248
21st/28th			‘674’ 910 5 43611 43110 74663 58715 00463
7th/14th	0930/0940z	9081/10514	‘314’ 298 5 73428 51328 52734 02713 73416
21st/28th			‘314’ 507 6 56793 46720 74700 73480 05230 46384
7th/14th	1200/1210z	13145/14212	‘425’ 917 6 63518 62332 63408 64387 62314 63064
21st/28th			‘425’ 810 6 22796 12577 74245 46647 79302 53516

Friday

1st/8th	0900/0910z	5744/6524	‘624’ 917 5 87452 96145 29354 10106 30287
15th/22nd			‘624’ 837 5 10471 11141 84595 96075 816-0
1st/8th	0930/0940z	12140/13515	‘516’ 824 7 09824 60684 32100 87326 25541 09255 76277
15th/22nd			‘516’ 482 7 98539 43324 98306 33149 07660 58672 72400

Saturday

2nd	0800/0810z	10350/8520	'254' 803 6 34031 33430 37536 34906 36968 35454

Sunday

3rd/10th	0630/0640z	22185/20050	'524' 893 6 33844 48190 30069 43624 80458 36958
17th/24th			'524' 806 7 25073 19453 83083 45353 47543 40832 16091

Other

S06s at 0720z on 4753kHz with 924 00000, and at 0730z on 5108kHz with 754 00000. The latter used LSB + carrier with poor USB suppression. Daniel

Heard again on Friday 29th, same times/same frequencies. Both frequencies lsb well suppressed. Best heard in AM mode. RNGB

S06 log October 2017

Daily Mon- Fri 0400z 15721kHz

No reports

Thursdays (Repeats following day) 0830z 20312kHz 0930z 16237kHz

05/10 '842' 976 43 66541 65057 38642 07131 55069 60535 33248 31385 58145 13359 26689 55652 17031 56769 94812 82386 35089 38026 01138 40291 86371 55095 49046 89019 57896 61796 76256 35312 49058 58587 77526 90236 76600 11195 66511 22236 58594 64246 12719 85662 75857 42125 14503 976 43 00000

12/10 '842' 513 44 97854 24722 18956 26053 48413 55862 02622 65346 55486 73051 41714 46766 93424 22331 12907 60965 27004 60075 35537 67020 38493 07081 35842 82315 20841 33237 64010 36587 91652 46181 31269 26071 07668 82417 59161 28681 84404 24293 58232 66158 50669 91305 78289 24139 513 44 00000

19/10 '842' 796 45 76992 69292 97351 51399 20321 32885 33154 35145 40336 27571 20556 46602 92831 80833 14527 23402 54801 96857 07058 55834 04438 75269 14623 92951 95368 01079 21610 28446 29819 29235 96891 52255 60389 12264 25725 78830 75129 44400 24179 87998 45608 20661 28259 3974- 42748 77965 45???????????

26/10 '842' 301 46 97631….then faded out] Malc

Fridays (1st & 3rd) 2000z 9237khz 2100z 6774kHz (frequencies may vary slightly)

06/10 '514' 367 95 52612 74916 51921 46234 34628 53237 25773 81283 54107 24997 78986 95455 16676 81243 09107 09023 15644 58147 86299 08647 93881 43394 75529 78622 84627 61106 68820 11974 31059 84286 88119 06494 91150 50111 26317 68462 35530 45082 31598 04634 49877 50519 16719 51309 47494 66534 73005 09344 97124 01434 66652 71987 48178 23945 29296 39103 79935 63094 52721 15245 60692 31876 78879 74932 64739 70896 10176 17742 63164 42224 16299 26171 78658 47231 93708 81064 60330 70636 26110 52421 20757 94647 39662 22200 24171 86363 43124 23573 68470 42695 51171 27644 61069 56757 76634 367 95 00000

Repeated next day

Saturdays (1st/3rd) 1900z 4538kHz 2000z 3894kHz (frequencies may vary slightly)

07/10 '913' 00000
21/10 '913' 00000

S06c

No reports

S06s October log:

Monday

2nd/9th	0830/0840z	9220/8270	'371' 956 8 38034 39477 33367 37555 33300 91480 34850 49855
16th/23rd			'371' 456 8 83426 51222 63425 63342 84536 95065 00745 74536
11th/18th	0900/0910z	14580/13165	'872' 536 9 48318 30605 43003 83659 86760 36014 41014 95384 33983
16th/23rd			'872' 513 6 93428 02315 93526 74528 94536 03352
11th/18th	1200/1210z	9145/11460	'831' 549 6 92971 30490 46481 33987 49607
16th/23rd			'831' 265 7 63425 84536 73342 95564 53627 00956 73443

Tuesday

3rd/10th	0600/0610z	15855/16485	'438' 965 7 37860 35827 33344 32283 31969 83392 33933
17th/24th			'438' 2195 43824 88354 23455 73427 05647
3rd/10th	0700/0715z	5760/6930	'374' 851 6 35861 33532 89319 32494 37142 30003
17th/24th			'374' 916 5 82045 36717 24042 75956 31670
3rd/10th	0730/0740z	7425/11560	'427' 510 6 01368 81379 65520 34869 47985 27700
17th/24th			'427' 930 5 88620 58069 61732 74537 57440
3rd/10th	0800/0810z	11635/10420	'352' 967 8 80333 81227 44276 63014 31021 17303 89305 04322
17th/24th			'352' 419 6 97067 58604 41438 24042 75956 31670
3rd/10th	1000/1010z	6410/7340	'893' 256 7 10471 11141 84895 96075 81620 43611 43110
17th/24th			'893' 427 6 21767 53673 11834 81022 36903 41412
3rd/10th	1100/1110z	6190/7230	'754' 916 8 76752 74622 88566 38689 80761 66188 20221 96854
17th/24th			'754' 910 6 16070 34140 78386 91497 82963 34694
3rd/10th	1500/1510z	6464/7242	'537' 841 6 34615 48756 91866 30215 30713 73965
17th/24th			'537' 801 6 96111 10544 74526 46647 79302 39534

Wednesday

4th/11th	0730/0740z	11530/12140	‘745’ 206 8 93427 03426 83426 73428 73922 42662 73415 94536
18th/25th			‘745’ 801 6 88569 89617 25757 77159 95225 01653
4th/11th	0820/0830z	8630/9255	‘471’ 265 8 83425 02416 83426 73546 74934 03051 73425 73422
18th/25th			‘471’ 895 6 88620 58069 61732 74537 57440 10597
4th/11th	0830/0840z	9082/9952	‘464’ 215 7 73425 62438 73425 94536 93425 03412 62314
18th/25th			‘464’ 275 8 40614 77249 40678 17976 21816 42997 94184 47374
4th/11th	1000/1010z	13365/14505	‘729’ 408 5 63425 21321 94553 84526 74528
18th/25th			‘729’ 413 8 47665 94092 48521 63888 92060 11749 70552 56936

Thursday

5th/12th (E17z)	0800/0810z	14260/12930	‘674’ 820 5 51326 41878 48807 29229 32184
19th/26th			‘674’ 823 5 19804 96845 22444 08374 98662
5th/12th	0930/0940z	9081/10514	‘314’ 908 5 35415 43943 43581 04711 97824
19th/26th			‘314’ 569 7 69856 83541 98423 79033 15452 10002 08973
5th/12th	1200/1210z	13145/14212	‘425’ 910 6 34614 48756 91866 20315 30713 73965
19th/26th			‘425’ 918 6 41716 50801 40123 47154 25660 69885

Friday

6th/13th	0900/0910z	5744/6524	‘624’ 873 5 88620 58069 61732 74537 57440
20th/27th			‘624’ 809 5 01405 15003 24357 60583 54545
6th/13th	0930/0940z	12140/13515	‘516’ 289 7 46062 68672 97478 30485 96632 52537 53317
20th/27th			‘516’ 894 7 88146 56785 98835 46186 16945 80744 86200

Saturday

7th	0800/0810z	10350/8520	‘254’ 917 6 11647 67208 18495 72852 34407 85065

Sunday

1st/8th	0630/0640z	22185/20050	‘524’ 871 6 89534 17229 15635 47891 23244 94184
15th/22nd			‘524’ 973 6 02688 96085 23716 73547 04475 79501

S11a

S11a log Sept/Oct

4016kHz	1955z	01/09 [370/00] Konyetz 1958z S9+10	Malc	FRI
	1955z	06/09 [370/00] Konyetz 1958z S9	Malc	WED
	1955z	08/09 [376/00] Konyetz 1958z S4	Malc	FRI
	1955z	15/09 [379/00] Konyetz 1958z S9	Malc	FRI
	1955z	27/09 [370/31 68310 72101 30550 32729 18490 22430 88732 52860 52676……18875 51244]	RNGB	WED
	1955z	04/10 [378/00] Konyetz 1958z S9	Malc	WED
	1955z	06/10 [372/00]	Thomas	FRI
	1955z	11/10 [373/39 61574…….24485] Konyetz 2006z S9	Malc	WED
	1955z	18/10 [378/00] Konyetz 1958z S9+20	Malc	WED
	1955z	27/10 [377/00] Konyetz 1958z S8	Malc	FRI
5358kHz	0455kHz	05/09 [327/00]	Ary	TUE
7317kHz	0915z	05/09 [487/00] Konyetz 0918z S2	Malc	TUE
	0915z	08/09 [486/00] Konyetz 0918z S2	Malc	FRI
	0915z	15/09 [480/00] Konyetz 0918z S3	Malc, RNGB	FRI
	0915z	19/09 [483/00]	RNGB	TUE
	0915z	26/09 [482/35 02693 14559 32489 04773 93234 48358 36632 10179……01696 20720]	RNGB	TUE
	0915z	03/10 [484/36 94302 93738 30084 14054 11523 56643 01041 33461……20112 70933]	RNGB	TUE
	0915z	06/10 [484/36 94302……..70933] Konyetz 0926z S3	Malc	FRI
	0915z	10/10 [482/00] Konyetz 0918z S3	Malc	TUE
	0915z	17/10 [483/00]	RNGB	TUE
	0915z	20/10 [484/00] Konyetz 0918z S3	Malc	FRI
	0915z	24/10 [482/00] Konyetz 0918z S2	Malc	TUE
	0915z	27/10 [483/00] Konyetz 0918z S2	Malc	FRI
	0915z	31/10 [481/00] Konyetz 0918z S2	Malc	TUE
7840kHz	1830z	11/09 [383/00] Konyetz 1833z S9	Malc	MON
	1830z	13/09 [383/00] Konyetz 1833z S5	Malc	WED
	1830z	18/09 [382/36 65450……..00059] Konyertz 1840z S6	Malc	MON
	1830z	20/09 [382/36 65450 53484 96092 68150 49248 28088 68137……62798 00059]	RNGB	WED

9960kHz	1020z	01/09 [426/00] Konyetz 1023z S7	Malc	FRI
	1020z	05/09 [429/00]	Ary	TUE
	1020z	08/09 [424/00] Konyetz 1023z S3	Malc	FRI
	1020z	15/09 [425/36 24891……..32670] Konyetz 1032z S6	Malc	FRI
	1020z	19/09 [426/00]	RNGB	TUE
	1020z	03/10 [425/39 17115 46243 78367 40191 84074 57586 56891 82275……59735 88418]	RNGB	TUE
	1020z	06/10 [425/39 17115……..88418] Konyetz 1032z S3	Malc	FRI
	1020z	10/10 [426/00] Konyetz 1023z S3	Malc	TUE
	1020z	13/10 [425/00]	Thomas	FRI
	1020z	17/10 [429/00] Good	RNGB	TUE
	1020z	24/10 [426/00] Out 1023z S4	Malc	TUE
	1020z	27/10 [426/00] Konyetz 1023z S3	Malc	FRI
	1020z	31/10 [424/00] Konyetz 1020z S3	Malc	TUE
10213kHz	1850z	02/09 [287/00] Konyetz 1853z S9	Malc, RNGB	SAT
	1850z	09/09 [28?/40 58498……49073] Konyetz 1901z S4	Malc	SAT
	1850z	13/09 [280/00] Konyetz 1853z S4	Malc	WED
	1850z	04/10 [287/40 52329……..70512] Konyetz 1900z S9	Malc	WED
	1850z	07/10 [287/40 52329 30832 74233 30785 18852 79649 73987 41872……16919 70512]	RNGB	SAT
	1850z	11/10 [282/00] Konyetz 1853z S9	Malc	WED
	1850z	14/10 [280/00] Konyetz 1853z S3	Malc	SAT
	1850z	18/10 [284/00] Konyetz 1853z S6	Malc, Thomas	WED
	1850z	21/10 [286/00] Konyetz 1853z S9	Malc	SAT
	1850z	25/10 [287/00] Konyetz 1853z S2	Malc	WED
	1850z	28/10 [287/00] Konyetz 1733z	Ed Smith	SAT
10800kHz	1540z	02/09 [560/00]	Ary	SAT
	1540z	06/09 [566/39 98029……47350] Konyetz S2	Malc	WED
	1540z	09/09 [566/39 98029…..etc] Repeat of Wednesday	Malc	SAT
	1540z	13/09 [563/00] Konyetz 1542z S2	Malc	WED
	1540z	16/09 [565/00] Konyetz 1543z S3 (Dutch SDR)	Malc	SAT
	1540z	04/10 [565/00] Konyetz 1543z S7	Malc	WED
	1540z	07/10 [564/00] Konyetz 1543z S3	Malc	SAT
	1540z	11/10 [569/00] Konyetz 1543z S9	Malc	WED
	1540z	18/10 [561/32 10144 10621 72940 14105 86087 81588 02449……5575162434] Konyetz 1650z S9	Ed Smith, Malc	WED
	1540z	21/10 [561/32 10144……..etc] Repeat of Wednesday	Malc	SAT
	1540z	25/10 [561/00] Konyetz 1543z S2	Malc	WED
	1540z	28/10 [566/00]	Gary H	SAT
11493kHz	1015z	07/09 [42?/00] Konyetz 1018z S2 QSB2	Malc	THU
	1015z	11/09 [476/00] Konyetz 1018z S3	Malc, RNGB	MON
	1015z	14/09 [479/00] Konyetz 1018z S4	Malc	THU
	1015z	18/09 [471/31 26603……..43879] Konyetz 1025z S3	Malc	MON
	1015z	02/10 [470/00] Strong	RNGB	MON
	1015z	05/10 [471/00] Konyetz 1018z S7	Malc, RNGB	THU
	1015z	19/10 [477/00]	RNGB	THU
	1015z	23/10 [475/38 67433 74015 86546 46718 64384 70058 03505 67235……63976 57346]	RNGB	MON
	1015z	26/10 [475/38 67433……..57346] Konyetz 1025z S5	Malc	THU
	1015z	30/10 [478/00] Konyetz 1018z S9	Malc, Ed Smith	MON

V07

Sunday

September 2017

0100z	**16137kHz**	**0120z**	**14637kHz**	**0140z**	**13437kHz**	
03/09	NRH					
10/09	164 1					
17/09	Only test tones heard [0100z only, rest NRH]					
24/09	164 000					Weak

October 2017

0100z	**18174kHz**	**0120z**	**15874kHz**	**0140z**	**14374kHz**	
08/10	18? 18? ?8?			[0100/0140z NRH]		Unworkable in Argentine
08/10	183 000			Reported by T		

15/10 183 1 301 63 85417 ... 33853 000 000 Weak

183 183 183 1
301 63
85417 62167 33493 23554 66707
19225 53923 54147 39786 89802
96723 82626 16426 02066 18113
70985 05501 25496 29234 26256
15805 11330 43655 81522 23336
31978 63580 91852 77220 28031
63647 55617 12087 88294 85416
76887 93258 86812 90438 20507
86785 04936 77380 93053 56499
75573 83883 72937 04380 84242
73230 07719 53037 07091 50269
96322 94732 92892 69497 38721
37576 48839 33853 000 000
Courtesy DanAr

22/10 183 000 Weak

29/10 183 000 Strong

V13

11430kHz0500z	23/09	New Star Broadcasting	Ary	SAT
0700z	26/09	New Star Broadcasting	Ary	TUE
0600z	03/10	USB New Star Broadcasting	Ary	TUE
0600z	06/10	AM New Star Broadcasting	Ary	FRI
0600z	07/10	AM New Star Broadcasting	Ary	SAT
15388kHz0500z	11/09	New Star Broadcasting	Ary	MON
0500z	02/10	AM New Star Broadcasting [Old freq]	Ary	MON
0600z	02/10	AM New Star Broadcasting [Old freq]	Ary	MON
0700z	03/10	USB New Star Broadcasting	Ary	TUE
0800z	03/10	USB New Star Broadcasting	Ary	TUE
0500z	06/10	AM New Star Broadcasting	Ary	FRI
0700z	06/10	AM New Star Broadcasting	Ary	FRI
0800z	06/10	AM New Star Broadcasting	Ary	FRI
0500z	07/10	AM New Star Broadcasting	Ary	SAT
0700z	07/10	AM New Star Broadcasting	Ary	SAT
0400z	13/10	AMTwo transmissions at the same time both on 15388 kHz but not in parallel. Ended at 0424z and 0428z	Ary	FRI
16134kHz0600z	26/09	New Star Broadcasting	Ary	TUE
18040kHz0500z	26/09	New Star Broadcasting [New frequency]	Ary	TUE

V15

North Korean Intel via Radio Pyongyang. Music followed by a message in Korean on 657, 3250, 3320, 6400 kHz:

1615z 26/09 AM Ary THU

http://www.numbersoddities.nl/V15-2017-09-28-1615utc-3320khz.mp3 [Audio on Msg 55267 E2k]

1615z 26/10 Mx then Msg in Korean NOT 657kHz Ary THU

http://www.numbersoddities.nl/V15-2017-10-26-1615utc-3320khz.mp3

V24

5290kHz1430z 03/10 AM Music followed by a message in Korean Ary TUE
Via the S Korean web sdr
Recording:
http://www.numbersoddities.nl/V24-2017-10-03-1430utc-5290khz.mp3

V26

4243kHz1205z	01/09/17[(From M95 sked - USB - Chinese - Female - // 9054) (Remote tuner New Zealand)]	JPL	FRI
4243kHz1157z	06/09/17[(From M95 sked - USB - Chinese - Female - // 9054) (Remote tuner South Korea)]	JPL	WED
4243kHz1212z	07/09/17[(From M95 sked - USB - Chinese - Female - // 9054) (Remote tuner China)]	JPL	THU
4243kHz1202z	09/09/17[(From M95 sked - USB - Chinese - Female - // 9054) (Remote tuner China)]	JPL	SAT
4243kHz1214z	14/09/17[(From M95 sked - USB - Chinese - Female - // 9054) (Remote tuner China)]	JPL	THU
4243kHz1216z	19/09/17[(From M95 sked - USB - Chinese - Female - // N/H) (Remote tuner China)]	JPL	TUE
4243kHz1555z	19/09/17[(From M95 sked - USB - Chinese - Female - // N/H) (Remote tuner China)]	JPL	TUE
4243kHz1214z	28/09/17[(From M95 sked - USB - Chinese - Female - // 9054) (Remote tuner China)]	JPL	THU
4243kHz1205z	03/10/17[(From M95 sked - USB - Chinese - Female - // 9054) (Remote tuner China)]	JPL	TUE
4243kHz0942z	12/10/17[(From M95 sked - USB - Chinese - Female - // 9054) (Remote tuner New Zealand)]	JPL	THU
4243kHz1220z	16/10/17[(From M95 sked - USB - Chinese - Female - // 9054) (Remote tuner China)]	JPL	MON
4243kHz1232z	23/10/17[(From M95 sked - USB - Chinese - Female - // 9054) (Remote tuner South Korea)]	JPL	MON
8073kHz1215z	16/10/17[(From M95 sked - USB - Chinese - Female - // N/H) (Remote tuner China)]	JPL	MON
9054kHz1205z	01/09/17[(From M95 sked - USB - Chinese - Female - // 4243) (Remote tuner New Zealand)]	JPL	FRI
9054kHz1157z	06/09/17[(From M95 sked - USB - Chinese - Female - // 4243) (Remote tuner South Korea)]	JPL	WED
9054kHz1212z	07/09/17[(From M95 sked - USB - Chinese - Female - // 4243) (Remote tuner China)]	JPL	THU
9054kHz1157z	06/09/17[(From M95 sked - USB - Chinese - Female - // 4243) (Remote tuner South Korea)]	JPL	WED
9054kHz1202z	09/09/17[(From M95 sked - USB - Chinese - Female - // 4243) (Remote tuner China)]	JPL	SAT
9054kHz1214z	14/09/17[(From M95 sked - USB - Chinese - Female - // 4243) (Remote tuner China)]	JPL	THU
9054kHz1214z	28/09/17[(From M95 sked - USB - Chinese - Female - // 4243) (Remote tuner China)]	JPL	THU
9054kHz1205z	03/10/17[(From M95 sked - USB - Chinese - Female - // 4243) (Remote tuner China)]	JPL	TUE
9054kHz0942z	12/10/17[(From M95 sked - USB - Chinese - Female - // 4243) (Remote tuner New Zealand)]	JPL	THU
9054kHz1220z	16/10/17[(From M95 sked - USB - Chinese - Female - // 4243) (Remote tuner China)]	JPL	MON
9054kHz1232z	23/10/17[(From M95 sked - USB - Chinese - Female - // 4243) (Remote tuner South Korea)]	JPL	MON

Polytones

XPA2 unid

12192kHz0700z	23/10[08871 00001 00000 ... 10140]	Ary	MON
12192kHz0700z	30/10[04343 00001 00000 … 10140]	Ary	MON
13892kHz0720z	30/10[04343 00001 00000 … 10140]	Ary	MON
14892kHz0740z	30/10[04343 00001 00000 … 10140]	Ary	MON

XPA c

Monday/Saturday

September 2017

0600z	**10359kHz**	**0620z**	**11559kHz**	**0640z**	**13559kHz**	
04/09	355 000 05931 00001 00000 … 10140					Fair
06/09	355 000 06727 00001 00000 … 10140					Very strong
11/09	355 000 04573 00001 00000 … 10140					Fair
13/09	355 000 09693 00001 00000 ... 10140				[0640z NRH]	Very weak
18/09	355 1 01857 00109 37242 ... 05772					Very strong
20/09	355 1 01857 00109 37242 ... 05772					Strong
25/09	355 000 07455 00001 00000 ... 10140					Fair
27/09	355 000 02264 00001 00000 … 10140				[0620z NRH]	Very strong

October 2017

0600z	**10868kHz**	**0620z**	**12168kHz**	**0640z**	**13368kHz**	
02/10	813 1 00751 00125 99168 ... 05122				[0600z Weak, noisy, QSB3]	Very strong
04/10	813 1 00751 00125 99168 ... 05122				[0600z Weak, QSB4]	Very strong
09/10	813 000 03187 00001 00000 … 10140					Very strong
11/10	813 000 08251 00001 00000 … 10140				[0600z Weak, noisy]	Very strong
16/10	813 1 02813 00157 28126 ... 52273					Very strong
18/10	813 1 02813 00157 28126 ... 52273					Strong
23/10	813 000 08736 00001 00000 … 10140				[0600z weak, 0620z LocalQRM5]	Very strong [0640z]
25/10	813 000 04240 00001 00000 … 10140				[0600z Very weak]	Fair
30/10	813 1 03713 00149 09090 ... 17311				[0600z Weak, unworkable]	Fair

813 813 813 1 813 813 813 1 813 813 813 1
03713 00149 09090 26266 04323 73611 19018 21792 90811 51879
20564 55932 02524 84470 35847 13638 14194 13011 28758 75308
90031 78280 79914 91522 00447 95634 85725 57363 43065 12537
55470 48902 48541 00359 00852 65669 97737 99737 99466 75647
96734 94039 59918 78887 04832 81493 53202 04318 59342 21803
09201 29487 59783 47462 60505 39942 51002 98280 45201 37844
79160 88279 27248 84891 46120 62918 13881 99758 30926 77568
99831 41923 14244 26790 99647 43126 60173 25547 66781 98506
36013 56169 21537 86724 93258 20616 91653 63858 20968 79031
48314 59760 43576 51619 98206 24905 47739 40969 49780 10340
67672 79082 12977 41128 96144 23122 58959 16186 43514 90487
09617 10594 97381 31927 53382 93622 40648 24524 57342 70438
26269 32248 54939 74488 22575 01685 24006 98869 03088 25740
02210 47788 64710 91051 81369 45542 68008 64470 07428 15633
83749 34643 20020 11760 19428 48320 35725 26410 96674 34966
58582 17311 *Courtesy Ary*

XPA2 m

Sunday/Tuesday

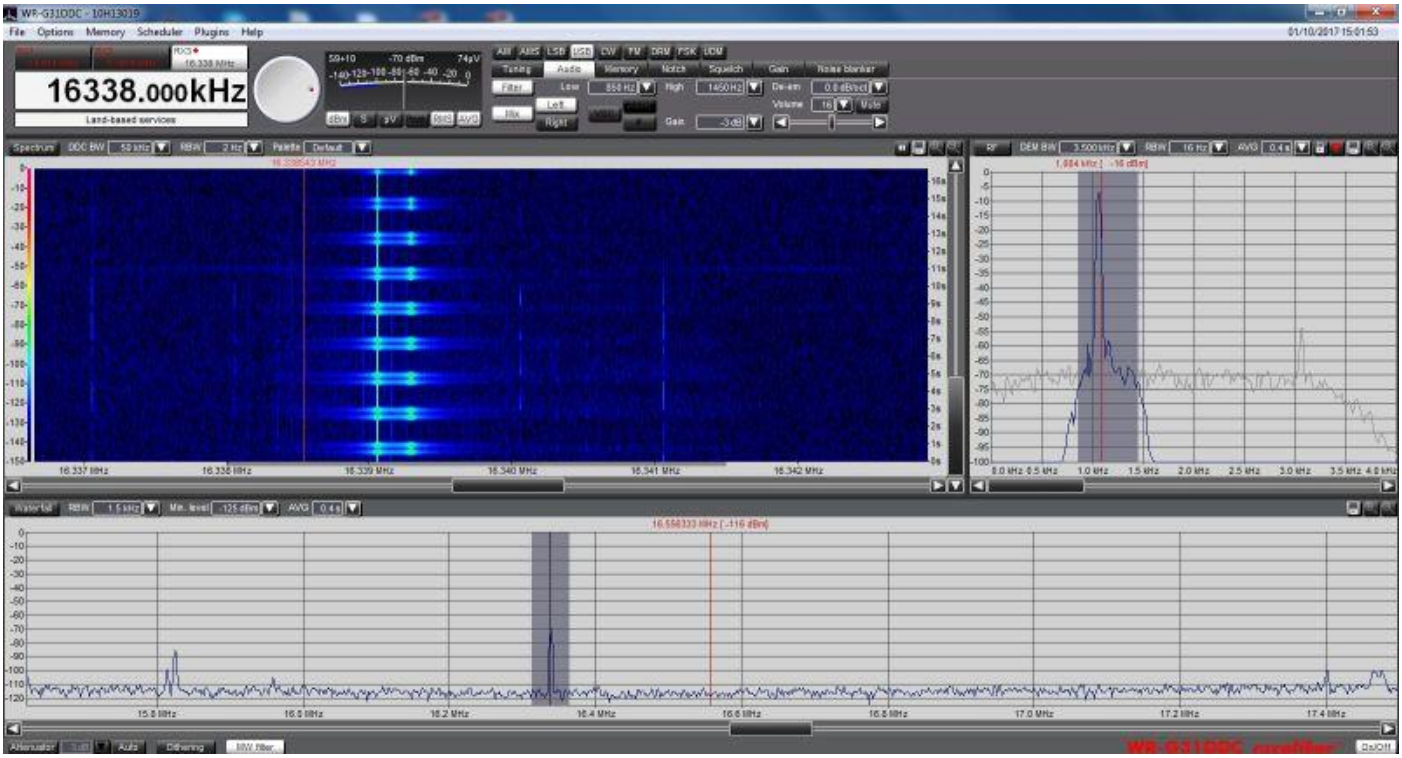
September 2017

1800z	**14538kHz**	**1820z**	**13538kHz**	**1840z**	**12138kHz**	
03/09	06017 00071 06114 … 67173					Very strong
06/09	06017 00071 06114 … 67173					Very strong
10/09	03567 00001 00000 …10140			[1800z Weak, unworkable]		Very strong
12/09	06880 00001 00000 ... 10140					Strong
17/09	03665 00001 00000 ... 10140					Weak [DanAr]
19/09	06298 00001 00000 ... 10140					Weak

24/09	07531 00059 29690 ... 36537	Very strong
26/09	07531 00059 29690 ... 36537	Very strong

October 2017

1500z 16338kHz 1520z 14538kHz 1540z 13538kHz



16338kHz 1500z 01/10 a very strong signal

01/10	03854 00001 00000 ... 10140	Very strong
03/10	03829 00001 00000 ... 10140	Very strong
08/10	04543 00091 39158 ... 64262	Very strong
10/10	04543 00091 39158 ... 64262	Very strong
15/10	04982 00001 00000 ... 10140 [1500z Weak, unworkable]	Fair, QSB3
17/10	06176 00001 00000 ... 10140	Strong
22/10	07477 00075 21273 ... 24146	Very strong
24/10	07477 00075 21273 ... 24146	Very strong
29/10	06893 00001 00000 ... 10140 [1500z Weak]	Strong
31/10	06091 00001 00000 …10140 [1500zWeak. 1520z Fair]	Very strong

XPA2 p

September 2017

1500z 16147kHz 1520z 14947kHz 1540z 14447kHz

01/09	NRH	
03/09	NRH	Full freq/day search started
08/09	NRH	Full freq/day search completed

Believed Closed, possibly new slot.

XPA2 r

Friday/Saturday

September 2017

1900z	**16167kHz**	**1920z**	**14663kHz**	**1940z**	**13923kHz**	
01/09	09279 00125 21952 … 41142					Very strong
02/09	09279 00125 21952 … 41142					Strong, noisy
08/09	NRH					Propagational disturbance
09/09	Not monitored					
15/09	NRH					Propagational disturbance
16/09	NRH					Propagational disturbance
22/09	06635 00161 11739 … 76276			[1900z NRH]		Very weak
29/09	Unworkable, very weak					
30/09	08052 00001 00000 10140			[1940z NRH]		Weak

October 2017

1400z	**17462kHz**	**1420z**	**16114kHz**	**1440z**	**14828kHz**	
06/10	01567 00085 25155 ... 10610					Very strong
07/10	01567 00085 25155 ... 10610					Very strong
13/10	03321 00001 00000 ... 10140					Very strong
14/10	Null message, unworkable					Very weak
20/07	02179 00001 00000 ... 10140					Very strong
27/10	07574 00073 92961 ... 22525					Strong
28/10	07574 00073 92961 ... 22525					Strong

07574 00073 92961 32893 51373 56654 33790 08960 76622 56144
26110 07165 28671 32108 71114 81703 04084 55430 97809 43971
42259 03411 67340 62734 10947 04700 47163 11085 10440 68766
14949 02614 25165 16931 94504 48703 05614 63761 54380 50793
14783 97480 98567 28575 85423 48471 11667 45142 61440 47009
20506 49091 96727 14498 10091 08897 65710 16605 44611 14105
67194 46486 64999 84644 11099 62876 49558 53705 16784 42315
93349 81856 99111 64951 95467 22525 *Courtesy Gert*

XPA2 t

Tuesday/Friday

September 2017

0700z	**17429kHz**	**0720z**	**18629kHz**	**0740z**	**20129kHz**	
01/09	00704 00141 39787 … 32711					Fair
05/09	07786 00001 00000 … 10140			[0740z weak]		Fair
08/09	NRH; poor condx solar activity?					
12/09	081n4 00001 [null msg 2m11s lg]					Mostly unworkable
14/09	NRH; poor condx					
19/09	08162 00157 72552 ... 43272					Weak
22/09	08162 00157 72552 ... 43272			[0720/0740z NRH]		Weak, QSB to nil
26/09	07358 00001 00000 … 10140			[0740z monitored only]		Weak
29/09	03265 00001 00000 … 10140					Very weak

October 2017

0700z	16284kHz	0720z	18184kHz	0740z	19584kHz	
03/10	Null message					Unworkable, QSB3/5
06/10	04678 Unsure figs			[0720/0740z NRH]		Very weak
10/10	00329 00081 37729 ... 72651					Very strong
13/10	003n9 00081 37729 ... 72651					Very weak, QSB to nil
17/10	02704 00001 00000 ... 10140			[0720/0740z Very weak]		Fair
20/07	05196 00001 00000 ... 10140					Fair
24/10	02840 00001 00000 ... 10140					Strong
27/10	07855 00001 00000 ... 10104			[0740zFair]		Very strong
31/10	06267 00103 40483 ... 52267					Very strong

06267 00103 40483 41894 18309 75470 46011 18131 91013 37994
88141 76560 01580 79135 77176 56693 04653 46540 07560 14040
47513 17938 54160 81916 43111 11559 46708 11141 91773 11113
64346 71994 74111 73345 11863 87675 61179 84834 85681 60365
23887 17091 57186 85554 24745 73037 25411 27378 66827 26351
12329 05993 78804 10838 12251 87881 06364 33354 63058 56607
77645 12666 11368 87226 66445 42981 44970 70856 34183 58738
33006 80500 88768 70152 06836 71488 43608 30172 13349 17673
48470 70540 71119 88153 94471 49615 73225 50039 65281 30180
62213 01017 47922 73891 06926 33744 34947 73053 45541 80695
02020 11024 92017 04900 61580 52267 *Courtesy PLdn*

HM01 Hybrid

HM01 has continued on the same schedules and frequencies over the past two months. Some days were missed over the period due to recording problems. Transmitter problems seemed to be quite common with Spanish speaking broadcast stations being heard at the beginning of some of the transmissions and in two cases mixing with the numbers.
Four files not ending in .txt were transmitted 36301738.F1G 50147335.F1C 36283474.F1G and 36128612.F1G, as always names of files with F1C extensions begin 50 and those with .F1G start with 36.

Logs
HM01 11435kHz 1600z 1/9 [26865 60389 81504 23566 14302 46165] New callup position 5, 14302 = 82371430.TXT FRI
HM01 11435kHz 1600z 2/9 [26866 08181 86811 23567 14303 46166] New callups positions 2 and 3, 08181 = 35040818.TXT, 86811 = 73258681.TXT SAT
HM01 11435kHz 1600z 3/9 [26867 08181 86811 23568 14304 46167] SUN
HM01 11435kHz 1600z 4/9 [26868 08182 86812 56371 14305 46168] New callup position 4, 56371 = 12085637.TXT. MON
HM01 11435kHz 1600z 5/9 [36351 08183 86813 56371 14306 46169] Up late with Spanish broadcast station, new callup position 1, 36351 = 35503635.TXT. TUE
HM01 11435kHz 1600z 6/9 [36352 08184 86814 56372 14307 28261] New callup position 6, 28261 = 13052826.TXT. WED
HM01 11435kHz 1600z 7/9 [36353 08185 86815 56373 14308 28261] THU
HM01 11435kHz 1600z 9/9 [36355 08187 86817 56375 87741 28263] SAT
HM01 11635kHz 2100z 11/9 [36357 74231 65651 56377 87743 28265] New callup position 3, 65651 = 77806565.TXT. MON
HM01 11435kHz 1600z 12/9 [06871 ????? 65651 56378 87744 28266] Came up very late, not all callups were heard. TUE
HM01 11435kHz 1600z 13/9 [06871 74233 65652 56379 87745 28267] WED
HM01 11435kHz 1600z 14/9 [06872 74234 65653 85541 87746 28268] New callup position 4, 85541 = 68448554.TXT. THU
HM01 11435kHz 1600z 15/9 [06873 74235 65654 85541 87747 28269] Started with Spanish Broadcast station. FRI
HM01 11435kHz 1600z 16/9 [06873 74235 65654 85541 87747 28269] Same callups as yesterday. SAT
HM01 11435kHz 1600z 17/9 [06873 74235 65654 85541 87747 28269] Same callups as yesterday. SUN
HM01 11435kHz 1600z 18/9 [06873 74235 65654 85541 87747 28269] Same callups as yesterday. MON
HM01 11435kHz 1600z 19/9 [06874 74236 65655 85542 87748 45331] New callup position 6, 45331 = 45254533.TXT. TUE
HM01 11435kHz 1600z 20/9 [06875 74237 65656 85543 08781 45331] New callup position 5, 08781 =. 74550878.TXT. WED
HM01 11435kHz 1600z 21/9 [06876 17381 65657 85544 08781 45332] New callup position 2, 17381 = 36301738.F1G. THU
HM01 11435kHz 1600z 22/9 [06877 17381 ????? 85545 ????? ?????] Transmitter cut out during callups. FRI
HM01 11435kHz 1600z 23/9 [06878 17382 65659 85546 08783 45334] SAT
HM01 11435kHz 1600z 24/9 [34741 17383 86121 85547 08784 45335] New callups positions 1 and 3, 34741 = 36283474.F1G, 86121 = 36128612.F1G. SUN
HM01 11435kHz 1600z 25/9 [34741 17384 86121 73351 08785 45336] New callup position 4, 73351 = 50147335.F1C. MON
HM01 11435kHz 1600z 26/9 [34742 17385 86122 73351 08786 45337] TUE
HM01 11435kHz 1600z 27/9 [34743 17386 86123 73352 08787 45338] WED
HM01 11435kHz 1600z 28/9 [34743 17386 86123 73352 08787 45338] Same callups as yesterday. THU
HM01 11435kHz 1600z 29/9 [34743 17386 86123 73352 08787 45338] Same callups as yesterday. FRI
HM01 11435kHz 1600z 30/9 [34743 17386 86123 73352 08787 45338] SAT
HM01 11435kHz 1600z 1/10 [34743 17386 86123 73352 08787 45338] SUN
HM01 11435kHz 1600z 2/10 [34744 17387 86124 73353 08788 45339] MON
HM01 11435kHz 1600z 3/10 [34745 17388 86125 73354 08789 02711] New callup position 6, 02711 = 57370271.TXT. TUE
HM01 11435kHz 1600z 4/10 [34745 17388 86125 73354 08789 02711] WED
HM01 11435kHz 1600z 9/10 [34747 11861 86127 73356 62201 02712] Callups incremented +2 since 3/10 new callups positions 2 and 5 11861 = 00371186.TXT, 62201 = 78746220.TXT. MON
HM01 11435kHz 1600z 10/10 [34747 11861 86127 73356 62201 02712] Same callups as yesterday. TUE
HM01 11435kHz 1600z 11/10 [34747 11861 86127 73356 62201 02712] Same callups as yesterday. WED
HM01 11435kHz 1600z 12/10 [34747 11861 86127 73356 62201 02712] Same callups as yesterday. THU
HM01 11435kHz 1600z 13/10 [34747 11861 86127 73356 62201 02712] Same callups as yesterday. FRI
HM01 11435kHz 1600z 14/10 [34747 11861 86127 73356 62201 02712] Same callups as yesterday. SAT
HM01 11435kHz 1600z 15/10 [34747 11861 86127 73356 62201 02712] Same callups as yesterday simultaneous with broadcast station. SUN

HM01 11435kHz 1600z 16/10 [34747 11861 86127 73356 62201 02712] Same callups as yesterday. MON
HM01 11435kHz 1600z 17/10 [34747 11861 86127 73356 62201 02712] Same callups as yesterday simultaneous with broadcast station. TUE
HM01 11435kHz 1600z 18/10 [34748 11861 86128 73357 62202 02713] WED
HM01 11435kHz 1600z 19/10 [34749 11862 43831 05541 62203 02714] New callups positions 3 and 4, 43831 =, 05541 = 30245544.TXT. THU
HM01 11435kHz 1600z 20/10 [45571 11863 43831 05541 62204 02715] New callup position 1, 45571 = 11144557.TXT. FRI
HM01 11435kHz 1600z 21/10 [45571 11864 43831 05542 62205 02716] SAT
HM01 11435kHz 1600z 22/10 [45572 11865 43832 05543 62206 02717] SUN
HM01 11435kHz 1600z 23/10 [45573 11866 43833 05544 62207 55441] New callup position 6, 05541 = 30245544.TXT. MON
HM01 11435kHz 1600z 25/10 [45575 70371 43836 05546 63671 55442] New callups positions 2 and 5, 70371 = 73487037.TXT, 63701 = 31826367.TXT. WED
HM01 11435kHz 1600z 26/10 [45576 70371 43837 05547 63671 55443] THU
HM01 11435kHz 1600z 27/10 [45577 70372 43838 57221 63672 55444] New callup position 4, 57221 = 06065722.TXT. FRI
HM01 11635kHz 1600z 28/10 [45578 70373 75821 57221 63673 55445] New callup position 3, 75831 = 17057583.TXT. SAT
HM01 11635kHz 1600z 29/10 [41361 70374 75821 57222 63674 55446] New callup position 1, 41361 = 47044136.TXT. SUN
HM01 11635kHz 1600z 30/10 [41361 70375 75822 57223 63675 55447] MON
HM01 11635kHz 1600z 31/10 [41362 70376 75822 57224 63676 78711] New callup position 6, 78711 = 40237871.TXT. TUE

Others' logs [Dan in Argentina, PLdn and PoSW]

10345kHz 0600z	04/09	26867 08181 86811 25368 14304 46167	Fair, QSB3
0628z	04/09	26867 08181 86811 25368 14304 46167	Strong
10715kHz 2200z	24/09	34741 17383 86121 85547 08784 45335	Weak
10715kHz2200z	08/10	34747 11861 86127 73356 62201 02712	Weak QRN2
2200z	15/10	34747 11861 86127 73356 62201 02712	Weak QRN2
11530kHz1657z	28/10	75831 57221 63673 55445 45578 70373	
11635kHz1757z	28/10	75831 57221 63673 55445 45578 70373	
16180kHz2057z	28/10	75831 57221 63673 55445 45578 70373	
17480kHz2157z	28/10	75831 57221 63673 55445 45578 70373	

HM01 was also copied in Great Britain as PoSW records:

Signals from the Cuban mixed-mode station only heard on the days when 10,345 9,330 and 9,065 kHz are used in the UK morning time.

3-Sept-17, Sunday:- 0713 UTC, 9,330 kHz, transmission in progress, signal strength indicating S8 with the quick up and down fading which is always a feature of HM01.
Heard 5Fs, "26866 08181 86811 23567 14303 46166". Stopped before 0720 for the break, started call-up routine again before 0728 UTC.

4-Sept-17, Monday:- 0629 UTC, 10,345 kHz, calling up after the break, "26867 08181 86811 23568 14304 46167", S9 with QSB and very good audio. Best reception on 10,345 for some time, on recent days when this frequency has been expected to be in use nothing at all has been heard. Data noise started at 0631:15s UTC.

6-Sept-17, Wednesday:- 0634 UTC, 10,345 kHz, transmission in progress, heard 5Fs, "36351 08183 86813 56371 14306 46169".
0658 UTC, just after, 9,330 kHz, starting up, 5Fs as earlier.

Nothing heard from HM01 for several days when transmissions would normally be expected to be on the air, not on the 8th, 10th or 11th of September, on any of the three frequencies which might be expected to show some sign of activity. Might be due to propagation, but perhaps more likely to do with Hurricane Irma which was heading across the Caribbean around this time; *The Times* of 6-September had an item on the hurricane's 185 mph winds which showed a map of the area and the predicted path of Irma passing the northern coast of Cuba and news reports on subsequent days described the devastation which occurred in the region.

Activity appeared to resume on the 13th;-

13-Sept-17, Wednesday:- 0804 UTC, 9,065 kHz, weak transmission of some kind on a frequency used by HM01, not strong enough to positively confirm.

15-Sept-17, Friday:- 0719 UTC, 9,330 kHz, very weak, appeared to be in call-up mode with the 5Fs, would not normally be doing this at nineteen minutes past the hour, too weak to hear.

18-Sept-17, Monday:- 0828 UTC, 9,065 kHz, call up after the break in progress when tuned in, "06873 74235 65654 85541 87747 28269", S7 with deep QSB, best copy from HM01 for several days, data noise at 0831z.

20-Sept-17, Wednesday:- 0757:40s UTC, 9,065 kHz, "06874 74236 65655 85542 87748 45331", S7 with the usual up and down fading, data at 0801z.

25-Sept-17, Monday:- 0708 UTC, 9,330 kHz, transmission in progress, peaking S9 with deep QSB, heard 5Fs, "34741 17383 86121 85547 08784 45335".
0759 UTC, 9,065 kHz, call-up in progress when tuned in, 5Fs as earlier, S8 with the usual fading up and down. Data noise started at 0801 UTC.

1-Oct-17, Sunday:- 0700 UTC, 9,330 kHz, "34743 17386 86123 73352 08787 45338, in progress when tuned in a few seconds before the hour, over

S9 with the usual deep QSB, data at 0700:55s UTC.

2-Oct-17, Monday:- 0722 UTC, 9,330 kHz, transmission in progress at a time when there is normally just the plain carrier of the break; looks like someone's got the timing wrong again. Heard 5Fs, "34743 17386 86123 73352 08787 45338", same as yesterday. At around 0727 UTC another HM01 YL voice came up over the top of the existing one, sounded like the call-up routine over the top of the transmission which was already in progress; this then ceased leaving the call-up alone with the above 5Fs, data noise started around 0730:50s UTC.

4-Oct-17, Wednesday:- 0736 UTC, 9,330 kHz, in progress, S9 with deep QSB, heard 5Fs "34745 17388 86125 73354 08789 02711".

11-Oct17, Wednesday:- 0733 UTC, 9,330 kHz, transmission in progress, 5Fs "34747 11861 86127 73356 62201 02712", started to become a much weaker signal around 0740 UTC.

14-Oct-17, Saturday:- 0928 UTC, 11,462 kHz, starting up after the break, weak signal largely unreadable but it is rare to hear HM01 at all on the days of the week when this frequency is used.

25-Oct-17, Wednesday:- 0728 UTC, 9,330 kHz, "45574 11867 43835 05545 62208 55441" data at 0730:30s UTC, S9 with the usual rapid fading up and down but was becoming weaker by 0735 UTC.

News from Germany and X06

As written in EN100, the German Branch of ENIGMA2000 (E2Kde) is inactive since 2015. But anyway, we have 2 news from the German scene :

On September 11th this year, the author of « Top Secret Books », Mr. Michael Lutz from Stuttgart, came to Marburg to interview me for a Youtube video about the numbers stations, which was made in German. The title : « Im Gespräch : Jochen Schäfer und die geheime Welt der Zahlensender » (Interview : Jochen Schäfer and the secret world of numbers stations). In this interview, old numbers stations were played (G16, G02). Unfortunately it was not possible to catch a station live. Also ENIGMA2000 was mentioned. You can watch and listen to the video here :
https://www.youtube.com/watch?v=cyxCCCcItHQ

Some days ago, Gary Hagermann asked me as the long-time German NumbersKopf for support to write a numbers station article in a newspaper. Of course, you'll get the support, if I know, what you want to know.

Now we come to the X06 report, fortunately with a lot of logs made by PoSW, our only « snail mailer ». The focus lies again on the variants, especially X06b as intros to family Ib transmissions or tests.

X06 Mazielka (1c) logs section

Date	Day	UTC	Freq	Scale	Monitor	Comments
20170905	Tue	0944	14812	263145	tiNG	Monitored in progress, R
20170907	Thu	1212	14340	1-616-	tiNG	X06b with S9
20170907	Thu	1235-1239	12340	1--6--	Antonio/IT	X06b i. p.
20170907	Thu	1249	12340	6--1--	Antonio	X06b again
20170908	Fri	1104-1120	11340	1--6--	Schorschi, tiNG	X06b i. p. with S9
20170908	Fri	1313	16340	1--6--	tiNG	X06b
20170917	Sun	1733	14538	1--6--	LU5EMM	Weak X06b before XPA2m
20170917	Sun	1736	14538	1--6--	LU5EMM	Fair X06b (better than XPA2m)
20170920	Wed	1558	10627	1--6--	Antonio	Short X06b (only 20 secs)
20170924	Sun	1711	14538	1--6--	LU5EMM	Weak X06b before XPA2m
20170925	Mon	0727/0732	12153	1--6--	Ary/NL	Short X06b (3x in both TXs)
20170925	Mon	0840-0842	12109	431625	EdwardSmith	I. p., G221
20170928	Thu	0739-0743	7988	561243	Danix/PL	G262
20170928	Thu	0821-0828	13843	153624	Danix	G249
20170928	Thu	1005-1016	10320	1--6--	Ary	X06b
20170928	Thu	1016-1136	10320	1--6--	Ary, tiNG	Very long X06b
20170928	Thu	1149-1158	10320	1--6--	Ary	X06b again
20170928	Thu	1211-1258	10320	1--6--	Ary	X06b, again longer
20171001	Sun	1552	13376	1--6--	Ary	X06b before E07
20171001	Sun	1555/1557	13376	161-6-	Ary	Different X06b before E07
20171002	Mon	0725-0735	12152	432516	Danix	G6
20171002	Mon	1538-1552	11438	532614	Danix	G4
20171004	Wed	0642-0645	12150	256341	Ary	I. p., G311
20171004	Wed	0823-0828	14501	214356	Danix	G24
20171004	Wed	0829-0835	14631	362154	Danix	G32
20171006	Fri	1002-1003	12215	361245	PoSW	S7, G53 (carrier on till 1004)
20171008	Sun	1735-1750	11067	145632	Danix	G135
20171012	Thu	0807-0812	13843	153624	Danix	G249
20171012	Thu	0954-1008	13506	164532	Danix	G106
20171013	Fri	0713	10320	6-----	PoSW	Very long X06b single tone, S9+(1)
20171013	Fri	0906-0909	11320	1--6--	PoSW	X06b with S9
20171016	Mon	0737-0752	12152	432516	Danix	G341
20171016	Mon	1543-1601	11438	532614	Danix, RNGB	I. p., G147
20171017	Tue	0749	11320	6-----	PoSW	Long X06b single tone (missed end)
20171017	Tue	1155-1350	11320	1--6--	Christer/SE, Danix,PoSW Ernie/US	Very long X06b with S9
20171018	Wed	0637-0640	10684	256341	Edward	I. p., G169
20171018	Wed	0754-0756	10310	1--6--	PoSW	X06b
20171018	Wed	0809-0823	14501	214356	Danix	G394
20171018	Wed	0830-0833	14631	362154	Danix	G170
20171018	Wed	0901-1221	13320	1--6--	PoSW	X06b with S9

```
20171018 Wed 1137-1221 12320 1--6-- Peter       X06b
20171018 Wed 1233      12320 1--6-- Ary         X06b again (end time missing)
20171020 Fri 0812-0821 12320 6----- Ary         X06b single tone variant i. p.(2)
20171020 Fri 0825-1033 12320 1--6-- Ary, Kopf,
                                    PoSW      X06b, strong and long
20171020 Fri 0629-0637 16320 241563 Edward      I. p., G187
20171023 Mon 0838-0844 12109 431625 Danix       G221
20171024 Tue 0816      13420 534216 PoSW        G232, close to RTTY station(3)
20171025 Wed 0734      11483 412356 PoSW        Alert 2 (G245) 1 S9(4)
20171025 Wed 0749      13369 412356 PoSW        2.2 Peaking S9 w/ QSB (only 30secs)
20171025 Wed 1653      13481 452163 PoSW        S8, R, QRM by sweeping carrier(5)
20171026 Thu 0816-0818 13843 153624 Danix       G249
20171026 Thu 0950-0959 13506 164532 Danix       G252
20171026 Thu 1518-1525 10535 564213 PoSW        S9+, G263
20171027 Fri 1250/1255 17462 6--1-- Ary         X06b before XPA2
20171027 Fri 1328      17462 1--6-- Ary         X06b with popular scale before XPA2
```

1) 1) Gone between 0808 and 0816 UTC.
2) 2) Stops at 0813 UTC, then again from 0815 to 0817, at 0821 for 50 secs and from 0822 to 0824.
3) 3) Gone between 0830 and 0840 UTC.
4) 4) Gone before 0847 UTC.
5) 5) Gone after 1658 UTC.

Many thanks to all contributors to the logs section.

Till next time “Auf Wiedersehen” and “Good-bye”

Jochen Schäfer, Numbers- and X06 Teamkopf

FSK

F01 [Ia]

Monday	**0025/0035/0125/0135z**	**15672/13892kHz**	**Link ID 00117**
04/09	**11177 00117 68423 01036 01779** 32721 34941 95741 22162 02297 43561 40312 77981 07601 02519 71312 06874 …		
	0025/0035z was sent using 400Bd/500Hz, resulting in the TX lasting half as long – 0125/0135z had the correct mode and TX length		
11/09	**11177 00117 58421 07037 01179** 93745 25474 43078 68843 14920 68926 64950 48717 27226 10615 94909 17711 …		
	0025/0035z had carrier only – 0125/0135z was sent, but each started with last 10 secs of TX before pausing for 2 minutes		
18/09	**11177 00117 96235 15038 01449** 01992 00739 76493 38037 15122 13274 59649 04179 05566 10415 24357 56275 …		
	0025/0035z was constantly restarted throughout – 0125/0135z had carrier only		
25/09	**11177 00117 35197 22039 01999** 04496 64198 04905 50160 28849 83449 17576 24255 05297 76812 03287 46380 …		
	0125z was stopped early – 0135z was NRH		
	0025/0035/0125/0135z	**14434/11439kHz**	
02/10	No reports		
09/10	No reports		
16/10	No reports		
23/10	No reports		
30/10	No reports		
1st Wednesday	**1840/1850/1900z**	**13467/11084/9052kHz**	
06/09	60568 11554 09736 90984 73428 32972 50213 15965 55539 14689 33726 99563 … 51062 00000		
	1840/1850/1900z	**11136/9074/7723kHz**	
04/10	Null message		
Friday	**2230/2240/2330/2340z**	**20618/18048kHz**	**Link ID 00116**
01/09	No reports		
08/09	No reports		
15/09	**11177 00116 18304 15037 01389** 89372 70647 02916 38285 92034 77165 54681 05189 18109 73912 62665 05431 …		
22/09	No reports		
29/09	No reports		
	2230/2240/2330/2340z	**20966/18954kHz**	
06/10	No reports		
13/10	No reports		

20/10 **11177 00116 56298 20042 01599** 85865 17464 48490 64808 57429 26206 76010 67469 26013 95410 02972 54498 …
27/10 No reports

Saturday **1810/1820/1830z** **13384/11441/9184kHz**

02/09 Null message
09/09 Null message
16/09 Null message
23/09 Null message
30/09 Null message

1810/1820/1830z **11462/9226/7829kHz**

07/10 Null message
14/10 Null message
21/10 Null message
28/10 Null message

F06 [Ia]

Sunday **1530/1540/1550z** **14455/12065/10426kHz** **Link ID 10053**

03/09 Null message
10/09 Null message
17/09 Null message
24/09 Null message

1530/1540/1550z **12189/10734/9129kHz**

01/10 Null message
08/10 Null message
15/10 Null message
22/10 Null message
29/10 Null message

1st/3rd Monday **0400/0410/0420z** **9437/7923/6776kHz** **Link ID 70059**

04/09 Null message
18/09 Null message

0400/0410/0420z **9354/7956/6774kHz**

02/10 Null message
16/10 Null message

Tuesday **1500/1510/1520z** **14973/13589/11643kHz** **Link ID 00052**

05/09 Null message
12/09 Null message
19/09 Null message
26/09 Null message

1500/1510/1520z **13546/11535/9256kHz**

03/10 Null message
10/10 Null message
17/10 Null message
24/10 Null message
31/10 Null message

Tuesday **1650/1700/1710z** **14828/12214/10534kHz** **Link ID 10053**

05/09 Null message
12/09 Null message
19/09 Null message
26/09 Null message

1650/1700/1710z **12215/10814/9046kHz**

03/10 Null message
10/10 Null message
17/10 Null message
24/10 Null message
31/10 Null message

Wednesday	**0600/0610/0620z**	**15930/13503/11109kHz**	**Link ID 40122**
06/09	**11166 40122 18967 02037 03649** 09656 64775 17142 95076 51514 23806 42151 75160 55924 09843 12486 28671 …		
13/09	**11166 40122 45698 09038 03029** 23422 96459 57125 39235 75649 71828 72203 41243 96016 11537 91275 95011 …		
	11166 40122 12365 09039 02969 62752 30869 98142 90040 62653 93707 25760 79147 82736 64032 12780 20422 …		
20/09	Null message		
27/09	**11166 40122 98521 23040 03179** 69384 43783 40812 40623 85401 24829 59356 42395 51904 07578 34324 73631 …		
	0600/0610/0620z	**19268/17548/15779kHz**	
04/10	**11166 40122 30148 30041 03469** 78572 01188 92732 12541 95766 26598 48122 86958 34005 42568 22082 78369 …		
11/10	**11166 40122 98732 07042 03029** 00564 04445 42347 86370 14237 93215 15856 40371 07444 29842 24908 79984 …		
	11166 40122 12365 07043 02909 48254 61745 35156 92238 54214 03846 60567 60950 41477 35936 86142 45583 …		
18/10	Null message		
25/10	**11166 40122 48523 21044 03899** 17250 19555 26675 03860 40684 19282 09478 95630 73002 71527 40685 85072 …		
Wednesday	**0800/0810/0820z**	**16023/14378/12158kHz**	**Link ID 70048**
06/09	Null message		
13/09	Null message		
20/09	Null message		
27/09	Null message		
	0800/0810/0820z	**19448/17503/15619kHz**	
04/10	Null message		
11/10	Null message		
18/10	Null message		
25/10	Null message		
2nd/4th Wednesday	**0800/0810/0820z**	**18178/15613/13459kHz**	**Link ID 00052**
13/09 & 27/09	**11166 00052 37495 08019 02069** 19350 16118 40859 22078 20077 74803 64497 40426 42459 66285 09385 97356 …		
	11166 00052 86451 08020 02129 33430 16118 40859 22078 44157 74803 64497 40426 66539 66285 09385 97356 …		
	About 10 minutes of difference between the two messages, according to the encrypted timestamp		
	0800/0810/0820z	**20018/18325/16248kHz**	
11/10	Repeat of 13/09 & 27/09		
25/10	**11166 00052 14683 24021 01749** 44490 26134 41856 22078 55117 84829 65494 40426 77599 76201 00382 97356 …		
2nd/4th Wednesday	**0915/0925/0935z**	**16146/13385/11434kHz**	**Link ID 10031**
13/09	Null message		
27/09	Null message		
	0915/0925/0935z	**19476/17458/15884kHz**	
11/10	Null message		
25/10	Null message		
1st/3rd Wednesday	**1230/1240/1250z**	**18517/16309/14464kHz**	**Link ID 90073**
06/09	Null message		
20/09	Null message		
	1230/1240/1250z	**19363/17476/15873kHz**	
04/10	Null message		
18/10	Null message		
Thursday	**1330/1340/1350z**	**15709/13541/10529kHz**	**Link ID 80214**
07/09	Null message		
14/09	Null message		
21/09	Null message		
28/09	Null message		
	1330/1340/1350z	**15607/13376/11108kHz**	
05/10	Null message		
12/10	Null message		
19/10	Null message		
26/10	Null message		

2nd/4th Saturday **0800/0810/0820z** **13384/11463/9328kHz** **Link ID 70147**

09/09 **11166 70147 17582 08065 00689** 33775 33184 91678 58128 19341 13961 84470 94306 25135 07392 89734 84902 …
23/09 **11166 70147 92451 22066 00909** 32685 93108 91678 58128 18251 73985 84470 94306 24045 67316 89734 84902 …

0800/0810/0820z **14986/12219/10574kHz**

14/10 **11166 70147 36814 13067 01289** 86345 43199 92678 58128 62911 23976 85470 94306 78705 17307 80734 84902 …
28/10 **11166 70147 12759 27068 00369** 41815 43103 92678 58128 27481 23980 85470 94306 33275 17311 80734 84902 …

2nd/4th Saturday **0900/0910/0920z** **16341/14706/12217kHz** **Link ID 70004**

09/09 & 23/09 **11166 70004 61735 08098 00589** 27029 54400 47459 24934 82948 83794 88684 83406 31672 17374 19352 99847 …

0900/0910/0920z **18919/16268/14486kHz**

14/10 & 28/10 **11166 70004 63892 13099 02599** 29317 67843 38418 85494 81973 69763 17536 88617 51472 88613 96276 87880 …

Saturday **1100/1110/1120z** **16174/14855/12214kHz** **Link ID 50046**

02/09 *Replaced by E06 ID 832*
09/09 **11166 50046 24953 08008 00469** 60009 89075 96903 40530 27176 73680 51196 63673 65224 30161 74902 82228 …
16/09 *Replaced by E06 ID 832*
23/09 **11166 50046 27156 22009 01789** 35999 49099 96903 40530 92066 33604 51196 63673 30114 90185 74902 82228 …
30/09 **11166 50046 13859 29010 00729** 36669 59096 96903 40530 93736 43601 51196 63673 31884 00182 74902 82228 …

1100/1110/1120z **17423/15628/13385kHz**

07/10 **11166 50046 79314 06011 01549** 47879 19073 97903 40530 04946 03688 52196 63673 42094 60169 75902 82228 …
11166 50046 93175 06012 01109 51899 19073 97903 40530 18966 03688 52196 63673 56014 60169 75902 82228 …
About 2 minutes of difference between the two messages, according to the encrypted timestamp
14/10 **11166 50046 37812 13013 00849** 17529 99080 97903 40530 74696 83695 52196 63673 12744 40176 75902 82228 …
21/10 **11166 50046 32197 20014 01569** 44898 39097 97903 40530 01965 23602 52196 63673 49013 80183 75902 82228 …
28/10 **11166 50046 31945 27015 00449** 35069 99094 97903 40530 92136 83609 52196 63673 30284 40180 75902 82228 …

Saturday **2100/2110/2120z** **15928/13396/11143kHz** **Link ID 40133**

02/09 Null message
09/09 Null message
16/09 **11166 40133 94381 12034 01309** 46631 25059 75966 73572 00482 84648 05382 05053 42393 06831 00972 56314 …
23/09 Null message
30/09 Null message

1500/1510/1520z **22963/20461/18356kHz**

07/10 Null message
14/10 Null message
21/10 Null message
28/10 Null message

F11 [III]

Monday/Friday **0515/0520z** **7371kHz** **ID 0446**

28/08 & 01/09 Null message
04/09 & 08/09 Null message
11/09 & 15/09 Null message
18/09 & 22/09 Null message
25/09 & 29/09 **88888 88888** 90811 41757 95505 84798 50685 46157 69486 68866 78645 35102 47863 32906 85727 25248 21616 53430 99388 25102 26663 66716 37311 89225 19373 29975 88935 11596 99051 72753 02204 65502 03867 58143 76521 72972 52249 80881 **88888 88888 00040 00040**

02/10 & 06/10 NRH
09/10 & 13/10 NRH
16/10 & 20/10 NRH
23/10 & 27/10 NRH
30/10 & *03/11* NRH

Monday/Thursday **0800/0805z** **6906kHz** **ID 0434**

04/09 & 07/09 Null message
11/09 & 14/09 **88888 88888** 69601 34746 42826 21311 48388 10036 81570 35351 28954 24985 76425 13898 80095 98656 58427 93415 83549 83565 92478 62255 42550 16921 47441 51483 16070 87590 09266 67346 84011 43268 25713 71861 03136 51120 94790 90118 92950 26472 06810 28317 **88888 88888 00044 00044**
18/09 & 21/09 Null message
25/09 & 28/09 Null message

02/10 & 05/10 **88888 88888** 56478 27810 95521 23934 88082 07612 19238 98493 89937 13849 32745 02411 09023 52603 77133 11390 46206 87677 00746 82648 71306 14788 24685 99176 41232 33383 85738 90311 00398 66564 36237 02219 12616 **88888 88888 00037 00037**

09/10 & 12/10 Null message

16/10 & 19/10 Null message

23/10 & 26/10 Null message

30/10 & *02/11* Null message

Monday/Wednesday 0845/0850z 9339kHz ID 0353

04/09 & 06/09 Null message

11/09 & 13/09 Null message

18/09 & 20/09 Null message

25/09 & 27/09 04903 47291 26470 14786 65407 95127 88540 53514 24786 64174 96975 54927 65755 22237 81665 29469 43834 74283 65674 84781 02373 32790 96178 41934 01516 02380 82797 65599 02773 52994 54421 34760 09870 79478 73958 97057 33107 99245 21797 58027 70294 84109 69469 50655 82295 87731 16229 31971 55374 08796 32911 93019 70283 21546 31015 18206 45080 86808 63287 25709 **00060 00060**

No 88888 88888 intro/outro, non-standard message length

02/10 & 04/10 **88888 88888** 38562 42970 11685 81365 58848 99182 95526 78791 84371 97184 24190 64096 45626 54659 88941 64549 38484 26353 20267 94637 16967 25552 73844 72875 39939 06981 76668 06035 91009 74546 83466 59743 58171 73887 95026 23476 57906 **88888 88888 00041 00041**

09/10 & 11/10 Null message

16/10 & 18/10 Null message

23/10 & 25/10 Null message

30/10 & *01/11* Null message

Tuesday/Friday 0900/0905z 7371kHz ID 0554

29/08 & 01/09 Null message

05/09 & 08/09 Null message

12/09 & 15/09 Null message

19/09 & 22/09 Null message

26/09 & 29/09 **88888 88888** 02693 14559 32489 04773 93234 48358 36632 10179 06744 38730 90650 27068 82371 06041 77962 23255 36884 68086 66605 56684 01984 00275 92326 79785 92170 15502 14422 85446 62532 13115 65390 09423 92165 01696 20720 **88888 88888 00039 00039**

03/10 & 06/10 **88888 88888** 94302 93738 30084 14054 11523 56643 01041 33461 40537 06812 03371 19457 61251 42544 02113 45937 95283 27104 59375 07181 61547 45848 01487 11775 93757 95386 18749 45935 30484 33553 32641 54433 22197 23696 20112 70933 **88888 88888 00040 00040**

10/10 & 13/10 Null message

17/10 & 20/10 Null message

24/10 & 27/10 Null message

31/10 & *03/11* Null message

Tuesday/Wednesday 1150/1155z 7670kHz ID 0325

05/09 & 06/09 44174 10032 09351 50883 49427 24089 18028 30383 15543 56335 86941 51841 59494 48307 55199 24209 40312 59324 58353 07135 15924 78775 74777 97313 81897 13793 39207 69120 75595 26970 87559 09574 02949 51090 79401 01129 98527 66954 52751 87498 64944 **00041 00041**

No 88888 88888 intro/outro

12/09 & 13/09 Null message

19/09 & 20/09 Null message

26/09 & 27/09 Null message

03/10 & 04/10 Null message

10/10 & 11/10 **88888 88888** 15364 41729 01541 55254 57361 43227 43388 73182 21651 44982 64548 85552 52387 04877 38659 94733 43883 64951 06947 25130 96909 06274 26443 45910 64806 66144 47588 26550 98113 23582 26021 76899 43695 28073 00857 **88888 88888 00039 00039**

17/10 & 18/10 Null message

24/10 & 25/10 Null message

31/10 & *01/11* Null message

Logs sent by: Ary, Danix

Thank you to all our contributors

In this issue we begin a five part reminiscence of past, Cold War times recounted by HJH …….

THE BERLIN WALL, MY PART IN its FALL!

Part 1
(With apologies to Spike Milligan, my hero!!!)

This little literary effort is the result of a conversation with my granddaughters, Sophie and Carys. Yes, I actually do talk to them, and hope to for many years to come. Come to think of it, my two little treasures Darren and Sharon, their Dad and favourite aunty respectively, can have a read too. Might give them a chuckle or twelve!!! It is about the Cold War, my own tiny part in it, and, of necessity, we must go back as far as the First World War because that, in my opinion, is where the seeds for the Cold War were first sown, and certainly those for the second. But, as we all know, wars are like trains and buses. If you miss this one, no worries, there will soon be another along! So, here we go, back to 1914, and as far as is possible, I have checked all historical facts, names, place and dates. Any historical speculation as to cause and effect is far outside the scope of this little effort of mine. And, contrary to popular belief, I was NOT there in 1914. These events happened, and we have all had to live with them and their results. May we never have to do so again!

Firstly, a lot of those terribly grown up phrases will, of necessity be used in this story. Here are the translations, just to simplify matters. I hate those books and articles where they have these at the end!

Armistice- Name by which the Treaty which ended World War One is generally known. Used as a term for all cessations of war.

Coalition Government. - A government consisting of all or some major political parties and not just one.

Cold War. A **cold war** or **cold warfare** is a state of conflict between nations that does not involve direct military action but is pursued primarily through economic and political actions, propaganda, acts of espionage or proxy wars waged by surrogates. The surrogates are typically states that are "satellites"(These are countries which rely on another and are usually supported by that country.) of the conflicting nations, i.e., nations allied to them or under their political influence. Opponents in a cold war will often provide economic or military aid, such as weapons, tactical support or military advisors, to lesser nations involved in conflicts with the opposing country.

Propaganda. Any information which is put out by a nation or large body in support of the aims of that nation or body. It is not always true or accurate, but is intended to show the nation giving it out in the best possible light.

Treaty- An agreement between two parties, usually countries.

Monarchy- Form of government in which the royal family of that country is the main ruler. Not to be confused with a CONSTITUTIONAL MONARCHY, which is what we and most other nations now have. In these, the monarch has no real power.

National Service. Also called conscription, and in USA, the Draft. It is compulsory military service in the Armed Forces of a country. Now long since abolished in Britain and USA. Germany abolished it last year. Most European countries retain it as do all the Balkan countries and Russia. **Conscription in the United Kingdom** has existed for two periods in modern times. The first was from 1916 to 1919, the second was from 1939 to 1960, with the last conscripted soldiers leaving the service in 1963. During the First and Second World Wars, it was known as **War Service** or **Military Service**. From 1948 it was known as **National Service**.

NATO. North Atlantic Treaty Organization. The North Atlantic Treaty Organization has been the cornerstone of European security and U.S. foreign policy for more than sixty years. Founded in 1949 as a bulwark against Soviet aggression, NATO has expanded significantly since the end of the Cold War, evolving to confront global threats ranging from counter-piracy off the Horn of Africa to counter-insurgency in Afghanistan. Indeed, the NATO of the twenty-first century is generally more recognized for its role outside rather than inside Europe. As the threats facing the alliance change, it remains a community united in the shared values of democracy, individual liberty, and rule of law.

NATO is also no stranger to criticism. Detractors on both sides of the Atlantic have questioned its raison d'être (Reason for being) as the Soviet specter fades. Many U.S. observers condemn what they see as the United States' disproportionate financial and military contributions to NATO. But proponents still see the alliance, for all its faults, as the preeminent institution for projecting Western interests, particularly at a time when the locus of global power is shifting east.

To be continued ……

Items of Interest in the Media:-

Fat Boy Kim still making the news and in Uncle Sam's sights, according to a piece in *The Times* of 6-September. With the headline, "Navy Seals training Kim 'assassination' squad", and written by Richard Lloyd Parry, Asia Editor, it says, "South Korean commandos will work with the US Navy Seals who killed Osama bin Laden to create a special unit to assassinate Kim Jong-un in the event of war.
The announcement coincides with a decision by the US to waive restrictions on the size and range of South Korean ballistic missiles, allowing it to develop its own independent capacity to drop bunker-busting bombs on the underground headquarters of the North Korean leadership in Pyongyang.
The South Korean government was formerly committed to engagement and negotiation with Kim. Its decision to strengthen its military options testifies to the atmosphere of crisis on the peninsula after the North's sixth, and biggest, nuclear test on Sunday in defiance of United Nations resolutions.
Nikki Haley, the UN ambassador to the UN, said that Kim was 'begging for war' with his continued and accelerating testing of nuclear and ballistic missile technology.
A South Korean newspaper reported yesterday that North Korea was moving an intercontinental ballistic missile potentially capable of striking the US mainland towards its west coast under cover of night. Intelligence officials in Seoul said that the North appeared to be preparing for further missile launches, possibly as early as Saturday, the anniversary of the country's founding.
A spokesman for President Moon said he had spoken to President Trump on Monday, telling him that 'powerful and practical measures' were needed to contain the North.
The special brigade created by the South Korean defence ministry to neutralise 'command and control' systems in the North will be launched in December. It will work with Seal Team Six, the commando group sent to Pakistan in 2011 to kill Bin Laden, the al-Qaeda leader. 'We are in the process of conceptualising the plan,' Song Young-moo, the defence minister, told Members of Parliament. 'I believe we can create the unit by December 1'
It will form part of the Korea Massive Punishment and Retaliation programme, an operation intended to kill the leadership in Pyongyang in the event of an imminent nuclear attack.
This week South Korea tested missiles that could be used to attack the North's nuclear sites or target the country's leadership. The Hyunmoo-2 missile is believed to be powerful enough to penetrate Kim's bunker."

An update to this story, also written by Richard Lloyd Parry, appeared in *The Times* of 11-October with the headline, "Seoul blueprint for war is stolen Kim's hackers", which says, "North Korean hackers broke into South Korea's defence computer systems and stole a vast cache of military secrets, including its blueprint for all-out war and plans to assassinate Kim Jong-un.
A South Korean member of parliament has cited newly released government documents which said that the hackers penetrated the ministry of defence intranet last year and took 235 gigabytes of information.
Only a fifth of the stolen material has been identified but it includes the joint US-South Korean plan with the North. Known as Oplan 5015, it includes details for a so-called "decapitation" attack on the Pyongyang leadership. In other words, the killing of Kim and his inner circle.
Other documents accessed by the hackers are Oplan 3100, which outlines responses to infiltration by North Korean commandos, or a small-scale provocation, for example, along the tense border between the two Koreas, and contingency plans for a sudden regime collapse in Pyongyang.

The cybertheft, which took place in August and September last year, was played down at the time as insignificant. But documents received under a freedom of information request by the MP Rhee Cheol-hee reveal instead a devastating intelligence leak.
Mr Rhee said that other leaked information included reports on key South Korean and US personnel as well as information about military bases and power plants in South Korea.
Tensions remain high on the Korean peninsula after Kim and President Trump exchanged personal insults on-line. The Yonhap news agency in South Korea quoted defence officials yesterday saying that North Korean commandos had been practising with para-gliders in anticipation of launching silent raids on strategic targets.

Jimmy Carter, 93, is eager to act as an intermediary in the stand-off, according to Park Han-shik, an emeritus professor at the University of Georgia who met the former US president recently.
It is a role that he has played successfully before: in 1994, when President Clinton was close to ordering an attack on the North's nuclear weapons project, Mr Carter negotiated a compromise with Kim Il-sung. 'He wants to employ his experience visiting North Korea to prevent a second Korean War,' said Professor Park.
Last week Mr Carter published an article in *The Washington Post* in which he argued for diplomacy. 'We face the strong possibility of another Korean war, with potentially devastating consequences,' he wrote.
'The North Koreans have always demanded direct talks with the United States, leading to a permanent peace treaty. They want an end to sanctions, a guarantee that there will be no military attack on a peaceful North Korea, and eventual normal relations between their country and the international community.' "

Point to ponder:- "If the Government is big enough to give you everything you want, it is big enough to take away everything you have." - attributed to Gerald Ford, 38th President of the United States.

Sobering thoughts …… thanks Peter of Saffron Waldron

Spectre's News Articles

The Guardian 13-09-2017

https://www.theguardian.com/world/2017/sep/13/china-born-new-zealand-mp-yang-jian-denies-being-a-spy

China-born New Zealand MP denies being a spy

A China-born MP for New Zealand's ruling party has denied being a spy after it emerged that he had spent years studying and teaching in universities with links to Chinese intelligence services.

"I am not a spy," Yang Jian, the National party's first MP born in mainland China, told reporters on Wednesday after a joint investigation by the Financial Times and New Zealand's Newsroom revealed what they described as his hidden past.

According to the New Zealand Herald the 55-year-old MP rejected the accusations as a racist "smear campaign" targeting him "just because I am Chinese".

Yang emigrated to New Zealand from China in 1999 to take a job teaching international relations at Auckland University. Twelve years later he became an MP, quoting China's former Communist party leader, Deng Xiaoping, in his debut speech to parliament.

"I don't care if it is a white cat or a black cat," the National party legislator said. "It's a good cat as long as it catches mice."

On Wednesday Yang was battling claims not that he was a black or a white cat, but a Trojan horse, after claims New Zealand's security services had been investigating him for ties to China's intelligence services.

"I refute any allegations that question my loyalty to New Zealand … Although I was not born here I am proud to call myself a New Zealander, obey our laws and contribute to this country," he told a press conference. "I challenge those who are propagating these defamatory statements to front up and prove it."

The reported interest in Yang by New Zealand's Security Intelligence Service (NZSIS) stems from time he spent at two academic institutions in his native China between 1978 and 1994.

One is the Air Force Engineering Academy of China's People's Liberation Army (PLA), where he studied English language as an undergraduate and subsequently taught.

The other is the Luoyang Foreign Language Institute in the central province of Henan. According to the Financial Times, that school is attached to the third department of the PLA's general staff headquarters, which it described as China's answer to the US National Security Agency (NSA) or the UK's Government Communications Headquarters (GCHQ). The newspaper said the school specialised in training both "openly acknowledged military intelligence officers and 'secret line' deep cover agents".

"Everyone I know who's attended the Luoyang Foreign Language Institute has been in Chinese military intelligence or at least linked to that system," Peter Mattis, a Jamestown Foundation expert on China's military and intelligence, was quoted as saying.

On Wednesday, Yang admitted he had spent time at both institutions but insisted there had been nothing untoward about his work.

He released a CV which showed he had received a BA in English from the Air Force Engineering school in 1982 and an MA in American studies from the Luoyang school in 1990.

The CV also showed that from 1982 to 1987 he worked as a "teaching assistant (associate lecturer)" at the former and a lecturer at the latter from 1990 until 1993 when he moved to Australia to study at the Australian National University.

According to stuff.co.nz, New Zealand's biggest news website, Yang admitted that as a lecturer he had taught students how to intercept and decipher communications but not to engage in "the physical act of spying".

"If you define those cadets or students as spies, then yes, I was teaching spies," he said. "[But] I don't think [they were spies] … I just think they are collecting information through communication in China."

The National party president, Peter Goodfellow, defended his MP after Wednesday's revelations. "You're making a number of assumptions based on his background and I'd be careful unless you have proof of what you're saying," he told Newsroom.

However, in a statement the MP Winston Peters said Yang's links to Chinese intelligence were worrying: "The National party either spectacularly failed to check out this candidate, or were totally naive about what his background meant."

The prime minister, Bill English, told reporters he had been aware of Yang's background and did not believe the Chinese politician had tried to hide it. However, in a Chinese-language interview with the Financial Times, Yang reportedly asked repeatedly that information about his academic past in China be omitted from any article about him. "You don't need to write too much about myself," he reportedly said.

In his six years as an MP for New Zealand's ruling National party, Yang has been a vocal supporter of China's Communist party.

In his Mandarin-peppered maiden speech he recalled how his family had suffered under Mao Zedong's tumultuous reign, which ended with his death at the end of the Cultural Revolution, in 1976.

"By the year of my birth, in 1962, China had wiped out private ownership … a horrific famine had just passed with the deaths of millions of people … by 1978 the Chinese economy was on the verge of collapse."

However, the naturalised MP also heaped praise on the "awe-inspiring" changes China had witnessed after Deng Xiaoping's economic reforms of the late 1970s and 1980s. "We are all aware of China's enormous economic growth … China has risen to become the second largest economy in the world. The Chinese government has successfully lifted millions of people out of poverty."

Despite this, Yang said many Chinese were choosing to move to New Zealand thanks to its "second-to-none environment, democratic political system, equal economic opportunities and stable society".

The Guardian 14-09-2017

https://www.theguardian.com/world/2017/sep/14/mystery-of-sonic-weapon-attacks-at-us-embassy-in-cuba-deepens

Mystery of sonic weapon attacks at US embassy in Cuba deepens

At least some of the incidents were confined to certain rooms with laser-like specificity, and some victims now have problems recalling specific words

The blaring, grinding noise jolted the American diplomat from his bed in a Havana hotel. He moved just a few feet, and there was silence. He climbed back into bed. Inexplicably, the agonizing sound hit him again. It was as if he'd walked through some invisible wall cutting straight through his room.

Soon came the hearing loss, and the speech problems, symptoms both similar and altogether different from others among at least 21 US victims in an astonishing international mystery still unfolding in Cuba. The top US diplomat has called them "health attacks".

New details learned by the Associated Press indicate at least some of the incidents were confined to specific rooms or even parts of rooms with laser-like specificity, baffling US officials who say the facts and the physics don't add up.

"None of this has a reasonable explanation," said Fulton Armstrong, a former CIA official who served in Havana long before America re-opened an embassy there. "It's just mystery after mystery after mystery."

Suspicion initially focused on a sonic weapon, and on the Cubans. Yet the diagnosis of mild brain injury, considered unlikely to result from sound, has confounded the FBI, the state department and US intelligence agencies involved in the investigation.

Some victims now have problems concentrating or recalling specific words, several officials said, the latest signs of more serious damage than the US government initially realized. The United States first acknowledged the attacks in August – nine months after symptoms were first reported.

The Trump administration still hasn't identified a culprit or a device to explain the attacks, according to interviews with more than a dozen current and former US officials, Cuban officials and others briefed on the investigation. Most weren't authorized to discuss the probe and demanded anonymity.

In fact, almost nothing about what went down in Havana is clear. Investigators have tested several theories about an intentional attack: by Cuba's government, a rogue faction of its security forces, a third country like Russia or some combination thereof. Yet they've left open the possibility an advanced espionage operation went horribly awry, or that some other, less nefarious explanation is to blame.

Aside from their homes, officials said Americans were attacked in at least one hotel, a fact not previously disclosed. An incident occurred on an upper floor of the recently renovated Hotel Capri, a 60-year-old concrete tower steps from the Malecon, Havana's iconic, waterside promenade.

The cases vary deeply: different symptoms, different recollections of what happened.

In several episodes recounted by US officials, victims knew it was happening in real time, and there were strong indications of a sonic attack.

Some felt vibrations, and heard sounds – loud ringing or a high-pitch chirping similar to crickets or cicadas. Others heard the grinding noise. Some victims awoke with ringing in their ears and fumbled for their alarm clocks, only to discover the ringing stopped when they moved away from their beds.

The attacks seemed to come at night. Several victims reported they came in minute-long bursts.

Yet others heard nothing, felt nothing. Later, their symptoms came.
The scope keeps widening. On Tuesday, the state department disclosed that doctors had confirmed another two cases, bringing the total American victims to 21. Some have mild traumatic brain injury, known as a concussion, and others permanent hearing loss.

Even the potential motive is unclear. Investigators are at a loss to explain why Canadians were harmed, too, including some who reported nosebleeds. Fewer than 10 Canadian diplomatic households in Cuba were affected, a Canadian official said.
Unlike the US, Canada has maintained warm ties to Cuba for decades.

Sound and health experts are equally baffled. Targeted, localized beams of sound are possible, but the laws of acoustics suggest such a device would probably be large and not easily concealed. Officials said it's unclear whether the device's effects were localized by design or due to some other technical factor.

And no single, sonic gadget seems to explain such an odd, inconsistent array of physical responses.

"Brain damage and concussions, it's not possible," said Joseph Pompei, a former MIT researcher and psychoacoustics expert. "Somebody would have to submerge their head into a pool lined with very powerful ultrasound transducers."

Other symptoms have included brain swelling, dizziness, nausea, severe headaches, balance problems and tinnitus, or prolonged ringing in the ears. Many victims have shown improvement since leaving Cuba and some suffered only minor or temporary symptoms.

After the US complained to Cuba's government earlier this year and Canada detected its own cases, the FBI and the Royal Canadian Mounted Police traveled to Havana to investigate.

FBI investigators swept the rooms, looking for devices. They found nothing, several officials briefed on the investigation said.

In May, Washington expelled two Cuban diplomats to protest the communist government's failure to protect Americans serving there. But the US has taken pains not to accuse Havana of perpetrating the attacks. It's a sign investigators believe that even if elements of Cuba's security forces were involved, it wasn't necessarily directed from the top.

Cuba's government declined to answer specific questions about the incidents, pointing to a previous foreign affairs ministry statement denying any involvement, vowing full cooperation and saying it was treating the situation "with utmost importance".

"Cuba has never, nor would it ever, allow that the Cuban territory be used for any action against accredited diplomatic agents or their families, without exception," the Cuban statement said.

After half a century of estrangement, the US and Cuba in 2015 restored diplomatic ties between countries separated by a mere 90 miles of water. Embassies were re-opened and restrictions on travel and commerce eased. Donald Trump has reversed some of those changes, but left others in place.

Mark Feierstein, who oversaw the Cuba detente on Barack Obama's national security council, noted that Cuban authorities have been uncharacteristically cooperative with the investigation.

If the Trump administration felt confident Raul Castro's government was to blame, it's likely the US would have already taken major punitive steps, like shuttering the newly re-established American embassy. And the US hasn't stopped sending new diplomats to Cuba even as the victim list grows.

"Had they thought the Cuban government was deliberately attacking American diplomats, that would have had a much more negative effect," Feierstein said. "We haven't seen that yet."

The Guardian 29-09-2017

https://www.theguardian.com/uk-news/2017/sep/29/chinese-mi6-informant-wang-yam-conviction-upheld-hamstead

Chinese MI6 informant's conviction in Hampstead murder case upheld

A Chinese dissident and MI6 informant has lost a long battle to overturn his conviction for murder after two trials during which his entire defence was heard in secret.

The case was referred to the appeal court by the Criminal Cases Review Commission (CCRC) when a witness provided new evidence after reading an article in the Guardian.

Wang Yam was convicted at the Old Bailey in 2009 of the murder of Allan Chappelow, a reclusive and wealthy author and photographer.

The government claimed it was necessary to hold his trial in secret to protect national security. It is believed to be the first murder trial in which a secrecy order was imposed for such a reason.

It is understood that MI6 strongly argued throughout the case that the evidence should never be disclosed.

The appeal court judgment was made by the lord chief justice, Lord Thomas, who retired on Friday – this was the last judgment handed down in his name – sitting with Mr Justice Sweeney and Mrs Justice May.

They said there was no basis, in their view, to believe "the new evidence would or might reasonably have affected the jury's decision in this case".

Chappelow, 86, was found dead in his crumbling home near Hampstead Heath in June 2006 after police had been alerted by his bank following some suspicious transactions.

He had been savagely battered and had been dead for some time. Use of his stolen credit cards was traced to Yam, who lived nearby. He was later arrested in Switzerland.

At his trial in 2008, the prosecution suggested that Yam must have been confronted by Chappelow when stealing from his postbox and could have then entered the house and killed him.

He was convicted of theft and fraud and jailed for four and a half years, but the jury could not reach a decision on the murder charge.

At a second trial, the following year, he was convicted of murder and jailed for a minimum of 20 years.

In July this year, the court of appeal heard evidence from a new witness, which would have had a "dramatic impact on the jury" in his trial, according to his counsel, Peter Wilcock QC.

Jonathan Bean, who lived a few doors from the murdered man, told the court that soon after the murder and when Yam was already in custody, he had heard a rustling noise at his front door and saw "a glimpse of a knife".

The intruder told him: "Do not call the police or we will kill your wife and baby." He added: "I was completely terrified because in my mind my neighbour had recently been killed in similar circumstances."

He called the police and moved his family to stay with friends. This information was never passed to Yam's defence team.

After reading an article in the Guardian about the case in 2014, Bean gave a statement to Yam's lawyers. As a result, the CCRC investigated the case and referred it to the appeal court.

Another new witness, Peter Hall, told the appeal court that he was a regular visitor to "the spanking bench" on Hampstead Heath and had seen a man he believed to be Chappelow there frequently over a number of years until shortly before his death.

He said he had known him only as "Alan". On two occasions he had seen him leave with young men and he had also been asked by him to go back to his home but had declined.

After the murder, he told the court, he recognised the photo of Chappelow but had not taken any action as he believed that the police had already arrested the killer.

It was only after the case had been reopened that he made contact with Yam's lawyers.

The court had also heard that there were signs in the house that a stranger had been there. There were cigarette butts, a footprint that did not match either the victim or Yam and a copy of the Daily Mail, a paper Chappelow's friends said he never read.

There was also a sleeping-bag that appeared to have been used. No DNA, fingerprint or footprint evidence linked the scene to Yam, but it was clear that someone other than Chappelow had been in the house around the time of the murder.

The judges said the "key connection" the prosecution relied on was between the use of Chappelow's handset and sim card and Yam's attempts to access and mine Chappelow's various bank accounts and the murder itself.

"Many actions of the person using, or attempting to use, the deceased's identity can only be explained or understood if done by someone who knew of the death and with an interest in delaying discovery of it," the judges added in a ruling handed down on Friday.

The trial jury "clearly concluded that the web of activity undertaken by [Yam] in relation to deceased's identity and accounts was so thoroughly interwoven with the murder itself that he, and only he, could have been responsible for the latter," they said.

They said they could not find any respect in which the new evidence from three new witnesses "could have disrupted or diluted the unique connection between the appellant [Yam] and the murder established by that web of evidence".

Wang, 56, a grandson of Chairman Mao Zedong's third-in-command, was a research assistant in the Chinese nuclear weapons research institute. He fled China via Hong Kong and was granted refugee status in Britain in 1992. It is accepted that he was an MI6 informant.

In advance of his trial in 2008, Jacqui Smith, then Labour home secretary, signed public interest immunity certificates to prohibit reporting of the case. Later the then foreign secretary William Hague claimed there would be "a real risk of serious harm to an important public interest" if Wang was allowed to disclose evidence heard in secret.

Wang Yam intended to reveal the "full story" of his relationship with MI6, he told the Guardian after the ruling.

Speaking on the telephone from Lowdham Grange prison near Nottingham, he said: "I cannot get justice in the UK . . . It is a total cover-up for mistakes." It was the government that put national security at risk, he said.

He added: “I will publish details of how I worked for MI6”. He said he would publish them in Hong Kong and the US. He would also pass on information about how he worked on behalf of the UK to the “Chinese president’s desk”. He said he had “a way to do it”.

Yam said he would pursue his case at the European Court of Human Rights and immediately contact his relations and contacts in China and Hong Kong.

Radio Free Europe 30-09-2017

https://www.rferl.org/a/russia-fsb-crimea-spying-ukraine-two-detained/28764402.html

Russia Detains Two Suspects In Crimea As Spies For Ukraine

Meanwhile, Ukraine's Defense Ministry has confirmed that the soldier, Dmitry Dolgopolov, had been a Ukrainian citizen who served in Ukraine’s military in Crimea until Russia seized and illegally annexed of the Ukrainian territory in 2014.

The Ukrainian ministry said Dolgopolov took on Russian citizenship after the annexation and joined Russia’s military.

The FSB said on September 29 that Dolgopolov and the detained woman, Anna Sukhonosova, are suspected of sending information to Ukraine's main intelligence directorate about Russia's Black Sea fleet, which is based in the Crimean port of Sevastopol.

The FSB said Dolgopolov currently is a member of Russia's military forces in Crimea, adding that he and Sukhonosova were detained together on September 29 at an apartment in the region's capital, Simferopol.

The suspects were later brought to Moscow, where a court sanctioned their arrests. The FSB said the two are facing charges of high treason against Russia, and could face up to 20 years in jail if found guilty.

US orders 15 Cuban diplomats to leave Washington embassy over sonic 'attacks'

State department says Cuba has failed to protect US diplomats in Havana

Reduction follows withdrawal of 60% of US embassy personnel from Cuba

The US has ordered 15 Cuban embassy officials to leave the country as result of a string of mysterious health incidents affecting 22 of its diplomats in Havana, which Washington says were the result of deliberate attacks.

The state department said the expulsions did not necessarily mean the US had concluded that the Cuban government was responsible for a variety of symptoms including hearing loss, headaches and cognitive problems, but it said Cuba had failed to live up to its obligations under international law to protect diplomats.

The US also said that the move was designed to achieve parity in each country’s embassy functions, after Washington announced the withdrawal on Friday of non-emergency personnel – more than half its diplomats in Havana, as well as all family members. Those US nationals are still in the process of leaving Cuba, while the 15 Cuban embassy staff are being given a week to leave.

“The decision was made due to Cuba’s failure to take appropriate steps to protect our diplomats in accordance with its obligations under the Vienna Convention,” the secretary of state, Rex Tillerson, said in a written statement. “This order will ensure equity in our respective diplomatic operations

A state department official said that the move did not signal a change of policy towards Cuba. “We are maintaining diplomatic relations with Havana.,” the official said.

Havana angrily protested the move, calling it “irresponsible” and “hasty.”

Foreign minister Bruno Rodríguez called a news conference to again deny involvement and defend his country’s efforts to assist in the US investigation.

“The ministry of foreign affairs strongly protests and condemns this unfounded and unacceptable decision as well as the pretext used to justify it,” Rodriguez said.

The state department said the US was cooperating with that investigation while conducting its own. Officials have said there was still no evidence of the source of the attack. Speculation has included the possibility of some form of sonic weapon and a surveillance operation that went wrong.

US officials said they were confident that the incidents were targeted attacks, pointing out that some of the affected diplomats had been staying in a hotel, where none of the hotel workers seem to have been affected. The Associated Press reported over the weekend that US intelligence officials were among the first to be affected. The incidents began late last year with the last being recorded in August.

The state department said 22 of its personnel had been affected, an increase of one since Friday. An official said that the new victim had experienced health problems in January but only now has a determination been made that they were connected to the other health incidents.

“We have underscored repeatedly to the Cuban government its responsibility for the safety, wellbeing, security and protection of our diplomatic staff under the Vienna Convention in Havana,” the state department official said. “We will need full reassurances from the Cuban government these attacks will not continue before we even contemplate returning personnel.”

The moves deliver a significant blow to the rapprochement between the Washington and Havana that was launched by Barack Obama and Cuba’s president Raúl Castro in 2015.

Democratic congressman Eliot Engel criticised the decision to expel the Cuban officials.

“It appears that this plays right into the hands of a potential rogue actor – Russia, perhaps – that is trying to create a further wedge between our two countries and other nations in the hemisphere. We need to be smart and thoughtful in responding to these attacks. Unfortunately, today’s response was extremely shortsighted.”

Geoff Thale at the Washington Office of Latin America (Wola), a human rights thinktank, said that there was no logic to the move.

“The United States is using the confusion and uncertainty surrounding these events as justification to take a big step backwards in US-Cuban relations,” he said. “This doesn’t serve our national interests, or our diplomacy, and it most certainly doesn’t do anything to help advance human rights or a more open political climate in Cuba.”

The Guardian 11/10/2017

Israel hack uncovered Russian spies' use of Kaspersky in 2015, report says

Information led to US decision to end use of company's software across federal government in December

An Israeli security agency hacked into Russian antivirus firm Kaspersky Lab in 2015, providing the crucial evidence required to ban the company from providing services to the US government, according to a report.

While the Israeli spies were inside Kaspersky's systems, they observed Russian spies in turn using the company's tools to spy on American spies, the New York Times reports. That information, handed to the US, led to the decision in September to end the use of the company's software across the federal government by December.

The revelation answers some questions about the unfolding saga around Kaspersky Lab, a previously well-regarded information security firm founded in 1997 by Russian national Eugene Kaspersky. It seems to demonstrate why the US believes Kaspersky Lab software was involved in the hacking of an NSA contractor in 2015, as well as narrows down the nature of Kaspersky Lab's supposed involvement in the Russian operation.

But it still leaves many further questions unanswered. Crucially for Kaspersky, the Israeli hack apparently failed to provide enough information to determine whether it was a willing, or even knowing, participant in the Russian espionage.

The Russian government exercises tight control over domestic and foreign high-tech industries operating within its borders. In June 2017, it began demanding the source code for certain software imported, ostensibly to search for "backdoors" inserted by foreign intelligence agencies. In practice, it's widely believed that the Russian security agency scans the source code for undisclosed vulnerabilities it can use to improve its own hacking prowess.

Kaspersky vehemently denies any involvement in Russian state-sponsored hacking. "Kaspersky Lab was not involved in and does not possess any knowledge of the situation in question," the company told the Guardian.

"Kaspersky Lab has never helped, nor will help, any government in the world with its cyber-espionage efforts, and contrary to erroneous reports, Kaspersky Lab software does not contain any undeclared capabilities such as backdoors as that would be illegal and unethical.

"It is also important to note, Kaspersky Lab detects all kinds of threats, including nation-state sponsored malware, regardless of the origin or purpose. The company tracks more than 100 advanced persistent threat actors and operations, and for 20 years, Kaspersky Lab has been focused on protecting people and organisations from these cyber-threats – its headquarters' location doesn't change that mission."

In the tangled web of spies spying on spies, it can be difficult to take any statement at face value. The Israeli security community has long had a tense relationship with Kaspersky Lab, dating back to the company's research on Stuxnet, a specialised piece of malware created by the US and Israel to harm Iran's nuclear industry.

In fact, the highly sophisticated Israeli hacking operation that targeted Kaspersky appears to have used the same malware that was used to spy on the Iran nuclear negotiations in 2014 and 2015.

Israel's hacking of Kaspersky reportedly occurred in the same period Kaspersky publicly acknowledged that it had been targeted by a "state actor". Kaspersky said the malware used in the attack was derived from the Stuxnet virus.

At the time Kaspersky researchers disclosed that dozens of machines in its networks had been infected by the Duqu 2.0 spyware, which appeared to be attempting to access research and information, and which Kaspersky staff described at the time as being a "generation ahead" of anything they had seen before.

Although there was no concrete proof until now, Kaspersky suspected Israel of being behind the attack, not least because the same malware was being used to target the P5+1 talks on Iran's nuclear programme. Kaspersky researchers also found that the work schedules of the Duqu attackers suggested they were physically located in or near to Israel.

Kaspersky said: "With regards to unverified assertions that this situation relates to Duqu2, a sophisticated cyber-attack of which Kaspersky Lab was not the only target, we are confident that we have identified and removed all of the infections that happened during that incident. Furthermore … Kaspersky Lab publicly reported the attack, and the company offered its assistance to affected or interested organisations to help mitigate this threat."

The latest revelations over Israel's electronic espionage activities appear to have come closer to joining the dots linking a series of Israeli cyber-spying and cyberwar operations dating back to at least 2011, beginning with the use of Stuxnet.

In 2015 officials in the Obama administration told journalists that Israel had spied on the nuclear negotiations and used material that it had acquired to attempt to lobby the US Congress in 2015 to derail the deal.

South China Morning Post

US man may face execution, accused of sending secrets to Chinese spies with illicit communications device

Former US agent Kevin Mallory was allegedly caught with undeclared stacks of cash after a trip to Shanghai, where he is accused of meeting suspected Chinese spies who gave him secret device to send documents

A Virginia man who was caught with stacks of cash in his carry-on bag after a trip to China may face execution in the US after he was charged Thursday with transmitting top-secret documents to an apparent Chinese agent using an illicit communications device.

Former US agent Kevin Mallory was allegedly caught with undeclared stacks of cash after a trip to Shanghai, where he is
A Virginia man who was caught with stacks of cash in his carry-on bag after a trip to China may face execution in the US after he was charged Thursday with transmitting top-secret documents to an apparent Chinese agent using an illicit communications device.

Kevin Mallory, 60, of Leesburg was arrested Thursday and made an initial appearance in US District Court in Alexandria, Virginia. The self-employed consultant who speaks fluent Mandarin is charged under the federal Espionage Act and could face life in prison, or, if certain conditions are met, the death penalty, prosecutor John Gibbs said at Mallory's initial appearance.

Court records indicate that Mallory was an Army veteran and worked as a special agent for the Diplomatic Security Service at the US State Department from 1987 to 1990. Since 1990, he has worked for a variety of government agencies and defence contractors, according to the affidavit. He held a Top Secret security clearance until he left government service in 2012.

According to the affidavit, Mallory traveled to Shanghai in April, and was interviewed by Customs agents at O'Hare Airport in Chicago after he failed to declare US$16,500 in cash found in two carry-on bags.

The FBI interviewed him the next month, and he admitted that he met with two people from a Chinese think-tank, the Shanghai Academy of Social Sciences, that he now believed were Chinese intelligence agents. He said they had given him a special communications device for transmitting documents.

According to the affidavit, Mallory told the FBI agents that the only documents he transferred were two unclassified "white papers" he had written on US policy matters, for which he said he was paid US$25,000.

But FBI agents searched the device and found other documents and messages that Mallory thought had been deleted, according to the affidavit. In one message, Mallory wrote to a suspected Chinese agent, "your object is to gain information, and my object is to be paid".

The agent responded, "my current object is to make sure your security and to try to reimburse you."
According to the affidavit, the Chinese officers were encouraging Mallory to resume working for the government so that he could obtain "a position of access."

An analysis of the documents on the device found four classified documents, including three with a Top Secret classification.

Indeed, according to the affidavit, the Chinese agent asked Mallory in one of the messages found on the device why there was blacked-out information on the top and bottom of certain pages. Mallory responded that the black was to cross out the Top Secret designations on the page. But he assured the agent that the information was valuable. "Unless read in detail, it appeared like a simple note," he wrote.

Mallory, wearing a gray tank top and black Army athletic shorts, requested a court-appointed lawyer at his initial appearance. He was ordered held pending a detention hearing scheduled for Friday afternoon. The FBI was at his suburban Leesburg home, about 65km west of Washington, much of Thursday executing a search warrant.

Dana Boente, acting assistant attorney general for national security and the US Attorney for the Eastern District of Virginia, where the case will be prosecuted, said in a statement that the charges "should send a message to anyone who would consider violating the public's trust and compromising our national security by disclosing classified information."
Geremy Kamens, the federal public defender appointed to represent Mallory, did not immediately return a call and email seeking comment.

Activist Post 29/10/2017

5 Ominous Revelations from JFK Files on CIA Mind Control, Assassinations, the Mafia and Terrorism

On Thursday, much to the chagrin of anyone seeking transparency, the US government released 2,800 previously classified files relating to the assassination of John F Kennedy while holding back several hundred more. President Donald Trump delayed the release of the others, saying he had "no choice" but to consider "national security, law enforcement, and foreign affairs concerns" raised mostly by the FBI and CIA. As TFTP predicted, the JFK files were no smoking gun. However, many of the documents contained in them reveal and confirm the absolutely horrifying practices of the world's most insidious spying agency.

In an amazing act of citizen journalism, Thursday night, the internet pored over the documents, including all of our staff here at TFTP. The information gleaned from these previously Top Secret documents reveals the dark truth about the CIA's covert, murderous, criminal, and outright terroristic workings.

From mind control to media control to working with the mafia and using covert chemical weapons to starve innocent civilians, the CIA has operated in the shadows breaking international law and laying waste to anyone who gets in their way.

The Free Thought Project has put together a list of documents retrieved from the JFK files detailing these outright ominous practices by the CIA.

1. The CIA planned on using covert 'biological agents' to cause massive crop failures in Cuba

In the minutes of a meeting for Operation Mongoose, the group discussed using 'agricultural sabotage' to terrorize the Cuban people and effectively starve an entire country. While the CIA expressed concern over the operation, the concern was not about innocent human lives, only about getting caught.

The CIA was intent on "producing crop failures by the introduction of biological agents which would appear to be of natural origin." The paper went on to note that they must avoid a massive chemical release "unless they could be completely covered up."

2. The CIA is a terrorist organization that not only encouraged terrorism and murder but openly funded it.

The CIA actually created a hitlist menu of sorts with bounties listed for the murder of certain individuals.

"Leaflets will be designed to indicate phases. For example, the first leaflets will contain only names of communist leaders; the next leaflets will revise the names by job; i.e. cell leader, informer, party members, etc.; any of the above or subsequent leaflets will announce the amount of the reward, how and where it may be collected. One final leaflet may be deemed advisable and that one announcing a .02c reward for the delivery of Castro."

These same tactics were put to use in Afghanistan which led to citizens turning in other innocent citizens just to receive a reward. Indeed, Gitmo was filled due to a very similar approach.

3. The CIA worked with the "Mafia" to carry out various assassinations

On the first page of the archives were two glaring documents which were apparently 'unmarked' but quickly deemed Top Secret once the information was noted inside them. In the document, the CIA details various assassination plots against Fidel Castro beginning as early as the late '50s.

According to the CIA, the "plans involved a number of bizarre schemes and, in at least one instance, involved some contact with organized criminal elements." One of these contacts was the notorious Chicago mob boss, Salvatore "Mooney Sam" Giancana.

4. The CIA planned for and participated in "influencing human behavior" with electronic signals

In one of the more ominous documents, titled Commission on CIA Activities within the United States the CIA admits to numerous campaigns of propaganda and public deception.

One bullet, in particular, deals with the CIA's "involvement in research on techniques for influencing human behavior and on methods of protecting Agency personnel against hostile use of drugs or "brain working" techniques."

As if attempting to influence individual human behavior wasn't threatening enough, the same bullet point mentions the "testing of equipment measuring physiological responses in human subjects."

For those familiar with the CIA's MK Ultra program, the above-mentioned techniques are shockingly telling, to say the least.

5. Operation Mockingbird—CIA Control of Media—was thriving

Even when the CIA released its massive archive last year, the tens of thousands of pages contained almost no information on the CIA's program to control the narrative in the media, otherwise known as Operation Mockingbird.

However, in two separate documents within the JFK files, the CIA admits to the program and a Congressman confirms that he is worried about their influence.

In regard to what Congressman Walter E. Fauntroy was talking about at that time, the above-mentioned document, titled Commission on CIA Activities within the United States, may provide that answer—Operation Mockingbird.

As TFTP predicted, so far, these documents change very little on the 'official story' of how JFK was killed. However, they provide a glimpse into the agency who admittedly works with crime lords to kill heads of state. They expose programs of thought manipulation and "brain working." The documents don't tell us that it wasn't Oswald, but they do tell us that the CIA was capable of killing anyone, anywhere, and making it look like an accident.

If this secret and unscrupulous organization was conducting operations 50 years ago, like the ones listed above, we can only imagine how much worse they have gotten since then.

Perhaps, one of the most important factors to consider in this torrent of information is that the very release of these documents could be part of this most unscrupulous practice of propaganda and mind control. Indeed, the 'mockingbirds' in the mainstream media are already using the release of these documents to bash anyone who questions the official story.

"We'll know our disinformation program is complete when everything the American public believes is false." — William Casey (CIA Director)

Matt Agorist is an honorably discharged veteran of the USMC and former intelligence operator directly tasked by the NSA. This prior experience gives him unique insight into the world of government corruption and the American police state. Agorist has been an independent journalist for over a decade and has been featured on mainstream networks around the world.

One from 'E'

The damning evidence Cuba's launched a sci-fi sonic weapon at America: How 21 US diplomats were hit by hearing and memory loss - and even mild brain damage - after suspicious attack

By Tom Leonard In New York For The Daily Mail

Published: 02:02, 21 September 2017 | Updated: 13:48, 21 September 2017

http://www.dailymail.co.uk/sciencetech/article-4905022/Evidence-Cuba-launched-sci-fi-sonic-weapon-America.html

The attacks have usually come at night. Many victims say they never noticed anything amiss. Others insist they have definitely felt or heard something — either vibrations or any number of odd sounds including a loud ringing, a scraping noise and a high-pitched chirping like the noise made by crickets or cicadas. Several said the noises came in minute-long bursts.

One diplomat described being jolted awake in a Havana hotel room by a grinding, blaring cacophony. When he moved a few feet across the room, the noise stopped. When he got back into bed, the agonising sound hit him again — as if, he told doctors, he had walked through some invisible wall cutting straight down the middle of his room.

Whether they heard anything or not, the consequences have been unmistakable — symptoms ranging from nose bleeds, nausea, dizziness and severe headaches to mild brain damage and permanent hearing or memory loss. Oddly, as soon as some of the victims left Cuba, they stopped hearing noises.

One diplomat described being jolted awake in a Havana hotel room by a grinding, blaring cacophony. When he moved a few feet across the room, the noise stopped (stock photo)

Or maybe it wasn't so odd, given the astonishing explanation that has surfaced as to why at least 21 U.S. diplomats, as well as others from Canada, have been brought low while serving in Communist Havana. Although America hasn't pointed any finger at the likely culprit, Washington believes they were victims of a secret sonic weapon.

Frankly, it's difficult to think of a more bizarre case of Cold War-style skulduggery since Bulgarian dissident Georgi Markov was assassinated in a London street with a poison-tipped umbrella in 1978.

While no one has lost their life, the effects have been dramatic. Months later, some of the victims are still struggling to concentrate or even recall common words — evidence of long-term mental damage that has hardened the U.S. attitude against Cuba.

Now, the repercussions are being felt in diplomatic shockwaves powering across the Caribbean sea in the direction of the Communist state.

The scandal threatens to derail the historic resumption — after a 50-year hiatus — of relations between the two old foes when their respective embassies reopened in 2015.

At the weekend, the U.S. Secretary of State, Rex Tillerson, revealed the Trump administration was taking the controversy so seriously that it was considering closing its embassy in Havana. Some U.S. senators have gone further, demanding that the government also kicks out every Cuban diplomat in America (the U.S. expelled two in May as a protest over the scandal).

Meanwhile, other countries have become concerned, and now France has tested its own Havana staff for potential sonic injuries.

The controversy certainly helped sour President Trump's speech to the UN General Assembly, in which he accused Cuba of delivering only 'anguish and failure' to its people. How long before he's ranting about 'totally destroying' Cuba as he did about North Korea this week?

The trouble for the Americans is that — like a plot from a sci-fi film when an alien weapon completely outfoxes humanity — scientists, doctors and intelligence experts remain utterly baffled.

So far, investigations involving the FBI, CIA, U.S. State Department and even the Canadian Mounties have found nothing.

'None of this has a reasonable explanation,' says Fulton Armstrong, an ex-CIA official who served in Havana before it reopened its embassy there. 'It's just mystery after mystery after mystery.' U.S. officials say the episodes were first reported last November, while the latest incident emerged as recently as late last month.

Most diplomats were affected in their homes — which were provided by the Cuban government. But at least one incident occurred on an upper floor of the Hotel Capri, a historic high-rise building popular with tourists, where two diplomats were living.

Nobody else at the hotel made a similar complaint. The targeting, if indeed a weapon is involved, is so specific that it affected only certain parts of certain rooms.

Colleagues of the diplomat in the Hotel Capri experienced a similar effect — waking with a ringing in their ears and reaching mistakenly for their alarm clocks, then getting up, only to discover the ringing stopped when they moved away from their beds.

At the weekend, the U.S. Secretary of State, Rex Tillerson, revealed the Trump administration was taking the controversy so seriously that it was considering closing its embassy in Havana (stock photo)

Two officials said the sonic attacks made a 'deafeningly loud sound similar to the buzzing created by insects or metal scraping across the floor'. Sending out the sort of targeted, localised beam of sound that could hit someone as they sleep is possible, but fiendishly tricky.

The fact that many of the victims never heard anything indicates the sound was outside the human hearing range.

If so, it would have to be emitting either a very high frequency — called ultrasound — or a very low one, infrasound.

Of those, experts say the most likely is ultrasound — which is employed, for example, in dog whistles — because it's far simpler to channel into a tight beam of energy. It has also been proved to produce some of the symptoms — such as hearing loss and disorientation — reported by the diplomats. It can even be fatal.

Ultrasound waves are usually generated by an electrically charged crystal that converts electrical energy into sound waves. And Tim Leighton, professor of ultrasonics at Southampton University, estimates the sonic attackers would need a transmitter the size of a car to generate hearing loss from 50 yards away.

If a sonic weapon is scientifically possible, then who might have been using it?

President Raul Castro — the late Fidel's brother — has reportedly given his personal assurance to the U.S. Charge d'Affaires in Havana that his government was not behind the attacks.

The government — which many believe genuinely wants to improve relations with America — says it launched an 'exhaustive, high-priority, urgent investigation' . . . which, like the others, appears to have drawn a complete blank.

U.S. investigators have reportedly examined at least two other possibilities. The first is that the perpetrator could be some rogue Cuban government faction, or even Cuban intelligence, which may fear it will lose its influence if the country is not at daggers drawn with America.

The alternative is that it's the Russians, who still hold great sway over Cuba, its long-time Cold War ally. Cuba's secret service, the Intelligence Directorate, has close ties with the FSB, Russia's successor to the KGB. It's possible Russia carried out the sonic attacks to ruin relations between the U.S. and Cuba.

Russia certainly has form. At the height of the Cold War, beams of microwaves were aimed at the U.S. embassy in Moscow, and America has never revealed what the effects were on its staff.

Vince Houghton, an intelligence expert, says of the injuries sustained this year that the Cubans or even the Russians could have been carrying out an intelligence operation that went wrong. Alternatively, he says, it could be part of a campaign of intimidation.

'It could be new technology that has had a side-effect that no one expected,' he says.

'On the other hand, it could have been designed to harass and make people feel uncomfortable.'

Sceptics cling to 'simpler' explanations, such as lead and mercury poisoning, or a mass outbreak of measles — all of which can damage hearing. But these don't even begin to account for those weird screeching sounds in the night.

For now, the fog shows no sign of lifting. But given the CIA famously tried out booby-trapped cigars, poisoned wetsuits and exploding seashells as ways of killing Uncle Fidel, is it really that far-fetched that the Cubans might have blasted back with a sonic weapon against Uncle Sam?

http://www.dailymail.co.uk/sciencetech/article-4905022/Evidence-Cuba-launched-sci-fi-sonic-weapon-America.html

Chart Section Index

Nov 2017

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Nov kHz, ID, ...	Dec kHz, ID, ...
		x	x				0315		E11	03	5779 25#	5779 25#
x	x	x	x	x	x	x	0400		V13	0	11430	11430
x	x	x	x	x			0400		S06	01A	15721 480	15721 480
x							0450		E11	03	5082 41#	5082 41#
	x			x			0455		S11A	03	4828 32#	4828 32#
x	x	x	x	x	x	x	0500		V13	0	11430	11430
x		x		x		x	0500		HM01	18	5855	5855
	x		x		x		0500		HM01	18	11462	11462
x	x	x	x	x			0500		M14	01A	18041 952	18041 952
x			x				0530		E11	03	6849 64#	6849 64#
			x				0530/0550/0610		E07A	01B	5111/ 5811/ 6911 189	5111/ 5811/ 6911 189
x	x	x	x	x	x	x	0540 (var)		HM02	01C	4761	4761
x	x	x	x	x	x	x	0600		V13	0	11430	11430
x				x			0600		E11	03	13046 18#	13046 18#
x		x		x		x	0600		HM01	18	10345	10345
	x		x		x		0600		HM01	18	14375	14375
	x						0600/0610		S06S	01A	16145/14240 438	16145/14240 438
					x		0600/0620/0640		M12	01B	7637/ 9137/10237 612	5784/ 7584/ 9184 751
						x	0600/0700		M14	01A	5947/ 6767 382	5947/ 6767 382
			x	x			0600/0700	1/3	E06	01B	18285/20140 507	14575/17420 923
						x	0630/0640		S06S	01A	13470/16515 524	13470/16515 524
x		x					0640		E11	03	94#, search	94#, search
	x		x				0645		E11	03	7840 51#	7840 51#
x	x	x	x	x	x	x	0700		V13	0	15250	15250
						x	0700		M01	01B	5465 197	5465 197
x		x		x		x	0657		HM01	18	9330	9330
	x		x		x		0657		HM01	18	13435	13435
	x						0700/0710(15)		S06S	01A	5250/ 6320 374	5250/ 6320 374
					x	x	0700/0720/0740		E07	01B	10112/11112/12112 111	8123/ 9323/10423 134
x		x					0700/0720/0740		XPAc	01B	11409/13509/14609	7756/ 9056/10656
	x			x			0700/0720/0740		XPA2t	01B	14517/16017/17417	13393/14493/16293
	x			x			0710		E11	03	9130 63#	9130 63#
					x	x	0710		E11	03	49#, search	49#, search

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Nov kHz, ID, ...	Dec kHz, ID, ...
	x						0730/0740		S06S	01A	7410/11532 427	7410/11532 427
x							0745		E11	03	10213 26#	10213 26#
		x		x			0745		E11	03	 34#, search	 34#, search
x	x	x	x	x	x	x	0800		V13	0	15250	15250
x							0800	1/3	G06	01A	5320 329	5320 329
x		x		x		x	0757		HM01	18	9065	9065
	x		x		x		0757		HM01	18	11365	11365
			x				0800/0810		E17Z	01A	11170, 9820 674	11170, 9820 674
	x						0800/0810		S06S	01A	11945/13195 352, check cf. Fri 0830	11945/13195 352
					x		0800/0810	1	S06S	01A	8680/ 8260 254	8680/ 8260 254
x		x					0800/0820/0840		XPA2p	01B	16073/14973/14373	15861/14761/13561
					x		0800/0900		M14	01A	5430/ 5561 171	5430/ 5561 171
					x	x	0805		E11	03	10429 31#	10429 31#
x			x				0820		E11	03	11100 43#, check	11100 43#
	x	x					0820		E11	03	18030 13#, check	18030 13#, check
		x					0820/0830		S06S	01A	8417/ 9262 471	8417/ 9262 471
x							0830/0840		S06S	01A	8057/ 8530 371	8057/ 8530 371
		x					0830/0840		S06S	01A	7062/10352 464	7062/10352 464
		x					0830/0840		S06S	01A	11535/11830 745	11535/11830 745
				x			0830/0840		S06S	01A	x11945/13195 352, search cf. Fri 0830	x11945/13195 352, search
			x	x			0830/0930		S06	01A	19875/16067 842	17435/14375 842
	x		x				0845		E11	03	 15#, search	 15#, search
x		x					0900		E11	03	9446 53#	9446 53#
x		x		x		x	0857		HM01	18	9240	9240
	x		x		x		0857		HM01	18	11462	11462
x							0900/0910		S06S	01A	14675/12830 872	14675/12830 872
				x			0900/0910		S06S	01A	5765/ 6315 624	5765/ 6315 624
					x		0900/0920/0940		E07A	01B	11553/12153/13553 515	11121/12221/13421 124
	x			x			0915		S11A	03	7504 48#	7504 48#

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Nov kHz, ID, ...	Dec kHz, ID, ...
x	x	x	x	x	x	x	0930		M14	01A	17458 617, only 10.,	17458 617, only 10.,
		x	x				0930		E11	03	9950 27#, check	9950 27#
			x				0930/0940		S06S	01A	8812/ 9540 314	8812/ 9540 314
				x			0930/0940		S06S	01A	11780/12570 516 9445/10195 search	11780/12570 516 9445/10195 search
	x			x			1000		E11	03	8800 30#	8800 30#
x		x		x		x	0957		HM01	18	5855/ 9155	5855/ 9155
	x		x		x		0957		HM01	18	12180	12180
	x						1000/1010		S06S	01A	6440/ 5660 893	6440/ 5660 893
		x					1000/1010		S06S	01A	12365/14280 729	12365/14280 729
			x			x	1010/1030/1050		M12	01B	15969/17479/18169 941	13569/14869/16269 582
x			x				1015		S11A	03	12530 47#, check	12530 47#
	x			x			1020		S11A	03	9610 42#	9610 42#
	x						1045		E11	03	12153 57#	12153 57#
	x						1100/1110		S06S	01A	5035/5975 754	5035/5975 754
	x			x			1100/1120/1140		E07	01B	14484/13384/11584 835	11493/10193/ 411, search
x	x	x	x	x	x	x	1200		V13	0	9725	9725
		x					1200	?	G06	01A	563, search ex 4771 691	563, search ex 4771 691
			x				1200/1210		S06S	01A	12155/10920 425	12155/10920 425
	x	x					1205		E11	03	7984 46#	7984 46#
x				x			1225		E11	03	20167 52#	20167 52#
x	x	x	x	x	x	x	1300		V13	0	9725	9725
		x					1300	?	G06	01A	563, search ex 4057 691	563, search ex 4057 691
			x				1300	1/3	G06	01A	4460 329	4460 329
			x		x		1300		E11	03	8680 58#	8680 58#
x							1300/1310		S06S	01A	8420/10635 831	8420/10635 831
	x					x	1300/1320/1340		XPA2m	01B	18238/16238/14438	14538/13538/12138
			x		x		1310/1330/1350		M12	01B	9162/ 8062/ 7462 104	7741/ 6841/ 5784 787
	x				x		1345		E11	03	14666 91#	14666 91#
x	x	x	x	x	x	x	1400		M08A	18	8096	8096

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Nov kHz, ID, ...	Dec kHz, ID, ...
x		x					1400/1420/1440		M12	01B	16296/14796/13396 273	13371/11571/10271 352
				x	x		1400/1420/1440		XPA2r	01B	17462/16114/14828	15967/13884/12217
					x		1500		M01	14	5810 197	5810 197
	x						1500/1510		S06S	01A	6845/ 9170 537	6845/ 9170 537
			x				1530		E11	03	5409 26#	5409 26#
		x			x		1540		S11A	03	10728 56#	10728 56#
x	x	x	x	x	x	x	1557		HM01	18	11435	11435
	x	x					1600	1/3	M14		3687 273	3687 273
	x					x	1605		E11	03	4505 23#	4505 23#
				x			1610/1630/1650		E07A	01B	8138/ 7538/ 6838 158	5887/5387/ 5087 830
		x				x	1625		E11	03	10448 97#	10448 97#
	x						1645		E11	03	33#, search	33#, search
				x		x	1650		E11	03	16335 92#	16335 92#
x							1700	1/2	G06	01A	563, search ex 3529 691	563, search ex 3529 691
x	x	x	x	x	x	x	1657		HM01	18	11530	11530
x		x					1700/1720/1740		M12	01B	9176/ 7931/ 6904 257	9176/ 7931/ 6904 257
				x			1700/1800	1/3	M14	01A	4562 574	4562 574
		x			x		1705		E11	03	9443 39#	9443 39#
		x			x		1730		E11	03	8545 40#	8545 40#
			x				1730		E11	03	5082 41#, check	5082 41#
x						x	1745		E11	03	12924 24#	12924 24#
x							1800	1/2	G06	01A	563, search ex 4478 691	563, search ex 4478 691
	x		x				1800		M01	14	5320 197	5320 197
x	x	x	x	x	x	x	1757		HM01	18	11635	11635
		x				x	1800/1820/1840		E07	01B	8153/ 6853/ 5453 184	7464/ 5864/ 4564 485
		x					1800/1820/1840		M12	01B	9176/ 7931/ 6904 257	9176/ 7931/ 6904 257
					x		1810/1820/1830		M42C	01A	9247/7762/ 5216	8131/ 6824/ 4471
	x						1820	2/4	M14	01A	4636 186	4636 186
			x				1830	2/4	G06	01A	4519 271	4519 271

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Nov kHz, ID, ...	Dec kHz, ID, ...
x		x					1830		S11A	03	38#, search	38#, search
		x			x		1850		S11A	03	28#, search	28#, search
x		x					1900/1920/1940		E07	01B		
		x					1900/1920/1940		M12	01B	8047/ 6802/ 5788 463	8047/ 6802/ 5788 463
				x			1900/2000	1/3	S06	01A	7607/ 5412 514	
				x		x	1910		E11	03	61#, search	61#, search
x							1910		M01B	14	2435, 3519 853	2435, 3519 853
		x					1920	2/4	M14	01A	4761 748	4761 748
	x		x				1925		E11	03	12067 55#	12067 55#
				x			1930	2/4	G06	01A	4792 436	4792 436
	x			x			1940/1950/2000	1	M42C	01A	8172/ 6791/ 4546	7684/ 5326/ 4029
		x		x			1955		S11A	03	5815 37#	5815 37#
				x			2000		E11	03	6304 57#	6304 57#
	x		x				2000		M01	14	4490 197	4490 197
x	x	x	x	x	x	x	2000		M08A/ V02A	18	7554	7554
x		x					2000/2020/2040		E07	01B	7616/ 6816/ 5216 682	6823/ 5823/ 5123 881
				x			2000/2100	1/3	S06	01A		7607/ 5412 514
					x		2000/2100	1/3	S06	01A	4012/ 3408 913	4012/ 3408 913
				x			2002		M01B	14	2653, 3197 866	2653, 3197 866
					x	x	2005		E11	03	11107 36#	11107 36#

M01 FREQUENCY LIST

Frequencies may vary by a few kHz

JAN FEB NOV DEC **M01/1** **197**

DAY	TIME UTC	FREQ kHz
TUE / THU	1800	5320
TUE / THU	2000	4490
SAT	1500	5810
SUN	0700	5465

MAR APRIL SEPT OCT **M01/2** **463**

DAY	TIME UTC	FREQ kHz
TUE / THU	1800	5475
TUE / THU	2000	5020
SAT	1500	6260
SUN	0700	6510

MAY JUNE JULY AUG **M01/3** **025**

DAY	TIME UTC	FREQ kHz
TUE / THU	1800	5280
TUE / THU	2000	4905
SAT	1500	6435
SUN	0700	6780

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Sep kHz, ID, ...	Oct kHz, ID, ...	Nov kHz, ID, ...	Dec kHz, ID, ...	Remarks
		x	x				0315		E11	03	7850 25#	7850 25#	5779 25#	5779 25#	since 01/14, last log 10/17
x							0450		E11	03	**5371** 41#	5371 41#	5082 41#	5082 41#	since 02/10, last log 10/17 2nd transmission Thu 1730z
	x			x			0455		S11A	03	5358 32#	5358 32#	4828 32#	4828 32#	since 09/14, last log 10/17
x			x				0530		E11	03	7317 64#	7317 64#	6849 64#	6849 64#	since 05/16, last log 10/17
x				x			0600		E11	03	**13470** 18#	13470 18#	13046 18#	13046 18#	since 07/15, last log 10/17
x		**x**					**0640**		**E11**	**03**	**12153** **94#**	**12153** **94#**	**94#, search**	**94#, search**	**since 07/17, last log 10/17**
	x		x				0645		E11	03	13424 51#	10800 51#	7840 51#	7840 51#	since 07/09, last log 10/17
	x			x			0710		E11	03	9963 63#	9963 63#	9130 63#	9130 63#	since 02/11, last log 10/17
					x	x	0710		E11	03	**8102** 49#	8102 49#	49#, search	49#, search	since 08/17, last log 10/17 07/15-04/17 Thu/Sat
x							0745		E11	03	10213 26#	10213 26#	10213 26#	10213 26#	since 03/14, last log 10/17 2nd transmission Thu 1530z
		x		**x**			**0745**		**E11**	**03**	**17410** **34#**	**17410** **34#**	**34#, search**	**34#, search**	since 06/17, last log 10/17
					x	x	0805		E11	03	**9200** 31#	9200 31#	10429 31#	10429 31#	since 07/14, last log 10/17
x			x				0820		E11	03	6804 43#	6804 43#	11100 43#, **check**	11100 43#	since 10/09, last log 10/17
	x	**x**					0820		E11	03	12530 13#	12530 13#	18030 13#, check	18030 13#, check	since 08/13, last log 10/17
	x		**x**				**0845**		**E11**	**03**	**10246** **15#**	**10246** **15#**	**15#, search**	**15#, search**	**since 07/17, last log 10/17**
x		x					0900		E11	03	9399 **9299?** 53#	9399 53#	9446 53#	9446 53#	since 10/05, last log 10/17
	x			x			0915		S11A	03	7317 48#	7317 48#	7504 48#	7504 48#	since 01/10, last log 10/17
		x	x				0930		E11	03	6807 27#	6807 27#	9950 27#, check	9950 27#	since 02/14, last log 10/17
	x			x			1000		E11	03	7840 30#	7840 30#	8800 30#	8800 30#	since 11/16, last log 10/17
x			x				1015		S11A	03	**11493** 47#	11493 47#	12530 47#, check	12530 47#	since 04/10, last log 10/17 yearly changing frequencies + id repeat at 1800Z
	x			x			1020		S11A	03	9960 42#, check	9960 42#	9610 42#	9610 42#	since 02/10, last log 10/17 2nd transmission Thu 1730z
	x						1045		E11	03	8102 57#	8102 57#	12153 57#	12153 57#	since 01/12, last log 10/17 2nd transmission Fri 2000z
	x	x					1205		E11	03	**7727 7277?** **46#**	7727 46#	7984 46#	7984 46#	since 03/10, last log 10/17 2nd transmission Mon 0450z
x				x			1225		E11	03	20286 52#	20286 52#	20167 52#	20167 52#	since 05/15, last log 10/17
			x		x		1300		E11	03	10302 58#	10302 58#	8680 58#	8680 58#	since 02/16, last log 10/17
	x				x		1345		E11	03	13046 91#	13046 91#	14666 91#	14666 91#	since 10/15, last log 10/17
			x				1530		E11	03	10330 26#	10330 26#	5409 26#	5409 26#	since 06/14, last log 10/17 2nd transmission Mon 0745z
		x			x		1540		S11A	03	10800 56#	10800 56#	10728 56#	10728 56#	since 03/16, last log 10/17
	x					x	1605		E11	03	6397 23#	6397 23#	4505 23#	4505 23#	since 11/15, last log 10/17
		x				x	1625		E11	03	10448 97#	10448 97#	10448 97#	10448 97#	since 02/15, last log 10/17
	x						**1645**		**E11**	**03**	**10800** **33#**	**10800** **33#**	**33#, search**	**33#, search**	**since 06/17, last log 10/17**
				x		x	1650		E11	03	13873 92#	13873 92#	16335 92#	16335 92#	since 05/16, last log 10/17
		x			x		1705		E11	03	10213 39#	10213 39#	9443 39#	9443 39#	since 02/14, last log 10/17
		x			x		1730		E11	03	5844 40#	5844 40#	8545 40#	8545 40#	since 06/16, last log 10/17
			x				1730		E11	03	**7864** 41#	7864 41#	5082 41#, check	5082 41#	since 03/10, last log 10/17 2nd transmission Mon 0450z
x						x	1745		E11	03	13470 24#	13470 24#	12924 24#	12924 24#	since 05/16, last log 10/17
x		**x**					**1830**		**S11A**	**03**	**7840** **38#**	**NRH** **38#**	**38#, search**	**38#, search**	**since 07/17, last log 09/17** **d e l e t e d ?**
		x			**x**		**1850**		**S11A**	**03**	**10213** **28#**	**10213** **28#**	**28#, search**	**28#, search**	**since 06/17, last log 10/17**
				x		x	1910		E11	03	8530 61#	8530 61#	61#, search	61#, search	since 04/17, last log 10/17
	x		x				1925		E11	03	10620 55#	10620 55#	12067 55#	12067 55#	since 07/15, last log 10/17
		x		x			1955		S11A	03	4016 37#	4016 37#	5815 37#	5815 37#	since 02/14, last log 10/17
				x			2000		E11	03	7377 57#	7377 57#	6304 57#	6304 57#	since 03/12, last log 10/17 2nd transmission Tue 1045z
					x	x	2005		E11	03	8186 36#	8186 36#	11107 36#	11107 36#	since 03/14, last log 10/17 2nd transmission Thu 1530z

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Sep kHz, ID, ...	Oct kHz, ID, ...	Nov kHz, ID, ...	Dec kHz, ID, ...	Remarks
x							0800	1/3	G06	01A	6810 329	6810 329	5320 329	5320 329	since 07/10, last log 10/17 repeat at Thu 1300Z
		x					1200	?	G06	01A	**5875** 563	5875 563	563, search ex 4771 691	563, search ex 4771 691	since 10/14, last log 10/17 yearly changing frequencies + id repeat at 1300Z
		x					1300	?	G06	01A	**5254** 563	5254 563	563, search ex 4057 691	563, search ex 4057 691	since 10/14, last log 10/17 yearly changing frequencies + id repeat from 1200Z
			x				1300	1/3	G06	01A	4598 329	4598 329	4460 329	4460 329	since 09/11, last log 10/17 repeat from Mon 0800Z
x							1700	1/2	G06	01A	**4613** 563	4613 563	563, search ex 3529 691	563, search ex 3529 691	since 04/10, last log 10/17 yearly changing frequencies + id repeat at 1800Z
x							1800	1/2	G06	01A	**5460** 563	5460 563	563, search ex 4478 691	563, search ex 4478 691	since 05/09, last log 10/17 yearly changing frequencies + id repeat from 1700Z
			x				1830	2/4	G06	01A	5934 579	5934 579	4519 271	4519 271	since 05/01, last log 10/17 repeat at Fri 1930Z
				x			1930	2/4	G06	01A	5442 947	5442 947	4792 436	4792 436	since 04/01, last log 10/17 repeat from Thu 1830Z

Current HM01 Schedules

Freq 1	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
5855	0500	0500		0500		0500	
11462			0500		0500		0500
10345	0600	0600		0600		0600	
14375			0600		0600		0600
9330	0700	0700		0700		0700	
13435			0700		0700		0700
9065	0800	0800		0800		0800	
11635			0800		0800		0800
9240	0900	0900		0900		0900	
11462			0900		0900		0900
5855	1000	1000		1000		1000	
9155	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
10715	2200	2200		2200		2200	
17480			2200		2200		2200

F06 Schedules (November 4, 2017) Yellow schedules indicate message-only repeats of other schedules, not always present.

Week	Day	UTC	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	ID
Every	Mon - Fri	**02:00**	16321												60146
		03:00	14881												
New message every day, no repeats the following days. Parallels F01 at 0000/0100z, S06 at 0400z, and M14 at 0500z.															

Week	Day	UTC	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	ID
1st, 3rd	Monday	**04:00**				10686	11414	12064	11049	10748	9437	9354			70059
		04:10				8184	10169	10926	9126	9139	7923	7956			
		04:20				6773	8169	9049	8137	7424	6776	6774			
		05:00	6926	7328	10249								7658	6788	
		05:10	5945	6778	8137								6778	5384	
		05:20	4816	5126	5948								5361	4454	
Repeats messages the following Wednesday at 21:00 or 22:00 instead of the following day.															

Week	Day	UTC	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	ID
Every	Tuesday	**16:50**	10383	13374	16359	18726	19214	19936	19535	17534	14828	12215	?	9313	10053
		17:00	9046	11165	13986	16238	17419	16354	16348	15613	12214	10814	?	7928	
		17:10	7313	9219	11523	13378	14443	13955	13588	12215	10536	9046	?	6783	

Week	Day	UTC	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	ID
Every	Wednes.	**06:00**	20154	20072	18189	16325	17420	17512	17419	16346	15930	19268	20082	20157	40122
		06:10	18304	18291	16046	14724	15673	15930	15707	14847	13503	17548	18207	18241	
		06:20	16156	16071	14459	12172	13361	13503	13446	12223	11109	15779	16141	16204	

Week	Day	UTC	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	ID
Every	Wednes.	**08:00**	?	?	18038	16064	14694	14368	13994	14976	16023	19448	19104	?	70048
		08:10	?	?	16344	14367	12223	12204	12058	13373	14378	17503	17428	?	
		08:20	?	?	14563	12208	10163	10309	10174	11168	12158	15619	15603	?	

Week	Day	UTC	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	ID
2nd, 4th	Wednes.	**08:00**				19138	17488	16330	15795	16319	18178	20018			00052
		08:10				17545	15823	14367	13428	14378	15613	18325			
		08:20				15626	13459	12141	11060	11636	13459	16248			
		09:00	20735	20916	20386								20476	20875	
		09:10	18037	18730	18215								18915	18747	
		09:20	16250	16165	16061								16328	16316	

Week	Day	UTC	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	ID
2nd, 4th	Wednes.	**09:15**				17538	14638	15629	14948	17434	16146	19476			10031
		09:25				14576	12156	13376	12176	14369	13385	17458			
		09:35				11639	10164	11544	10177	11163	11434	15884			
		10:15	19433	20639	20138								20349	18046	
		10:25	16048	17539	17428								18573	16326	
		10:35	14976	15644	14983								16245	14944	

Week	Day	UTC	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	ID
1st, 3rd	Wednes.	**12:30**	16329	18235	18563	18476	17430	16286	16244	17455	18517	19363	18191	17478	90073
		12:40	14826	16144	16314	16168	15814	14517	14649	15923	16309	17476	15963	15838	
		12:50	12166	14519	14723	14643	13487	12179	12206	13388	14464	15873	13436	13387	

Week	Day	UTC	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	ID
Follows 1st, 3rd Mon,	Wednes.	**21:00**				10636	?	12218	?	13548	?	9948			70059
		21:10				8163	?	11164	?	11516	10161	8115			
		21:20				6854	?	9418	?	8145	8184	6826			
		22:00	6828	?	10164								?	?	
		22:10	5129	?	8076								?	?	
		22:20	4534	4989	6769								?	?	
Message-only repeat slot of 1st & 3rd Monday 04:00 or 05:00.															

Week	Day	UTC	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	ID
Every	Thursday	**13:30**	12186	14983	16054	16351	16328	14565	13814	14978	15709	15607	?	?	80214
		13:40	10243	12196	13471	14367	14358	12169	11643	12216	13541	13376	?	?	
		13:50	8175	9917	11062	11483	11146	9981	9925	10164	10529	11108	8187	?	

Week	Day	UTC	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	ID
2nd, 4th	Saturday	**08:00**				13466	14644	14948	13468	12223	13384	14986			70147
		08:10				11543	12193	12096	11634	10186	11463	12219			
		08:20				9328	10184	10374	9486	8094	9328	10574			
		09:00	14534	15638	14378								15623	13938	
		09:10	12149	13486	12217								13469	12136	
		09:20	10483	11128	10349								11569	10314	

Week	Day	UTC	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	ID
2nd, 4th	Saturday	**09:00**				17481	17426	16314	16089	16186	16341	18919			70004
		09:10				15946	15818	14569	14384	14571	14706	16268			
		09:20				13543	13396	12191	12173	12195	12217	14486			
		10:00	20973	20894	18948								20868	20951	
		10:10	18736	18429	16223								18259	18643	
		10:20	16328	16153	14639								16113	16314	

Week	Day	UTC	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	ID
Every	Saturday	**11:00**	16174	18911	16343	17437	15634	14689	15964	16153	16174	17423	16236	15623	50046
		11:10	14855	16234	14367	15626	13547	12143	13549	14438	14855	15628	14419	13854	
		11:20	12214	14426	12172	13464	11622	10186	11524	12216	12214	13385	12128	11586	

Week	Day	UTC	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	ID
Every	Saturday	**15:00**	20564	22878	22913							22963	22871	20648	40133
		15:10	18471	20216	20374							20461	20629	18483	
		15:20	16308	18253	18406							18356	18553	16196	
		21:00				20386	18751	18323	17436	16289	15928				
		21:10				18509	16174	15886	15789	14461	13396				
		21:20				16231	14563	13581	13473	12176	11143				

Week	Day	UTC	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	ID
2nd, 4th	Saturday	**15:30**	20868	22986	22874							20806	22984	20741	40133
		15:40	18689	20363	20634							18441	20719	18368	
		15:50	16156	18669	18751							17463	18348	16343	
		21:30				20589	18663	18521	18246	17429	?				
		21:40				18371	16344	16256	16149	15861	13498				
		21:50				16108	14869	14641	14474	13486	11054				

Week	Day	UTC	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	ID
Every	Sunday	**15:30**	10378	13464	16245	18626	19323	19838	19466	17428	14455	12189	?	?	10053
		15:40	9169	11548	14356	16325	17536	16238	16189	15786	12065	10734	?	?	
		15:50	7419	9323	12138	13458	14356	13546	13576	12228	10164	9129	?	?	

F01 Schedules (June 5, 2017)

Week	Day	UTC	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Every	Mon - Fri	**00:00**	17471											
		01:00	14421											
New message every day. Parallels F06 at 0200/0300z, S06 at 0400z, and M14 at 0500z.														

Week	Day	UTC	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Every	Monday	**00:25** **01:25**	13452	15803	16023	15820	14941	16218	14878	16023	15672	14434	12101	10884
		00:35 **01:35**	11106	12195	13555	13405	12221	13949	12185	14373	13892	11439	9215	8157
Doesn’t repeat the following days.														

Week	Day	UTC	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1st	Wednesday	**18:40**				12194	14363	14621	14829	15854	13467	11136		
		18:50				10581	12189	12206	12214	13543	11084	9074		
		19:00				8112	10346	10465	10932	11126	9052	7723		
		19:40	7629	8156	10467								8172	7684
		19:50	6783	6844	8094								6791	5326
		20:00	4034	4527	6779								4546	4029
Repeats messages the following Friday (same times and frequencies) instead of the following day.														

Week	Day	UTC	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Every	Friday	**22:30** **23:30**	17411	20741	20700	?	20206	19224	18562	20823	20618	20966	20741	18169
		22:40 **23:40**	15956	18401	18726	19405	18031	17491	16218	18397	18048	18954	18702	15765
Doesn’t repeat the following days.														

Week	Day	UTC	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Every	Saturday	**18:10**	7684	9153	12184	14517	15806	16322	16147	15931	13384	11462	9247	8131
		18:20	5387	7641	10292	12196	13512	14804	14389	13452	11441	9226	7762	6824
		18:30	4572	5251	8054	10413	11131	12207	12214	11093	9184	7829	5216	4471

F11 Schedules (November 4, 2017)

Week	Day	UTC	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	ID
Every	Monday Thursday	**08:00** **08:05**	6836		6906		6480				6906		6836		0434
Every	Monday Wednes.	**08:45** **08:50**	9370		9339		13424				9339		9370		0353
Every	Tuesday Friday	**09:00** **09:05**	7499		7371		8423				7371		7499		0554
Every	Tuesday Wednes.	**11:50** **11:55**	6807		7670		6280				7670		6807		0325

XPA Sched c and XPA2 [Sched m, r & t] Russian Intelligence Multitone Systems [Radiogramma] Transmission Schedules

Zulu > / Month v	0600/0700 Sched c Monday/Wednesday USB 10baud			XPA2 Sched m Various times Sun/Tue H 00 H+20 H+40 1300,1500,1800,2000,2100			XPA2 Sched r Various times Fri/Sat H 00 H+20 H+40 1400, 1900, 2100			XPA2 Sched t Tuesday/Friday H 00 H+20 H+40 0700z		
Jan	9108	10908	12208	16138	14438	13438	16167	14663	13923	13472	14772	16272
Feb	11409	13509	14609	16338	14538	13538	18667	17419	16212	14558	15958	17458
Mar	11409	13509	14609	16138	14438	13438	18667	17419	16212	13431	14631	15931
Apr	10359	11559	13559	14538	13538	12138	17462	16114	14828	16347	17447	18747
May	10868	12168	13368	14538	13538	12138	17462	16114	14828	19667	18767	17467
June	11409	13509	14609	14738	13438	12138	16167	14663	13923	19514	18214	16314
July	11409	13509	14609	14538	13538	12138	15967	13884	12217	20173	18763	17473
Aug	10868	12168	13368	14738	13438	12138	16167	14663	13923	20049	18549	17449
Sept	10359	11559	13559	14538	13538	12138	16167	14663	13923	17429	18629	20129
Oct	10868	12168	13368	16338	14538	13538	17462	16114	14828	16284	18184	19584
Nov	11409	13509	14609	18238	16238	14438	17462	16114	14828	14517	16017	17417
Dec	7756	9056	10656	14538	13538	12138	15967	13884	12217	13393	14493	16293

Notes:

XPA c 0600/0700z schedule appears to be robust with reasonably strong signals into UK. Day change, Saturday to Monday 02/08/2017

XPA2 m Repetitive frequency triplets, appears robust, generally strong into UK
XPA2 r Schedule appears robust; generally very strong signals to UK
XPA2 t Weak in UK
XPA2 p Six day variable schedule, separate document

Bespoke decoding program used to decode: 'Sepal'

Updated 17/08/2017

SPECIAL MATTERS

Thanks to all our contributors:
Ary, Edd, BR, DanAr, DoK, DrMHz, E, HH, HJH, JkC, Jochen, KW, Malc, MaleAnon, MNSDB, PoSW, PLdn, RNGB, tING,
Apologies to anyone missed.

Operation Jallaa: Nil Return

MESSAGES:

E: Thanks your input. Re 10620 pse read intro; other freqs likewise. 6398 prob M51or like tx. Good on hosp. Mine still continues but no more until December 73 PB

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