ENIGMA 2000 NEWSLETTER

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RAF E3-D Sentry

Photographed during the flypast of Buckingham Palace of 100 aircraft 1200z 10/07/2018

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Editorial

Apart from the variable signal strengths and continuing QRM and QRN [and sometimes accompanying QSB] frequency changes to the August E07 Sun/Wed 1700z and Mon/Wed 1900z schedules have been noted, but read on. Thanks for spotting the Sunday change Ary and thanks to Malc for Monday's.

Sun/Wed as:	1700z	13397kHz ;	1720z	12197kHz ;	1740z 10697kHz
Mon/Wed as:	1900z	16147kHz;	1920z	14647kHz;	1940z 13447kHz

The variable propagation changed for the worse abound the weekend 25th August as things became bad; not a lot above 10500kHz in the mornings and not helped by the noise from broadband on twisted pairs in the UK and other places. A daily check of my phone app illustrates 30 to 10m are generally poor.

Several interesting developments in the world of the number station have been observed over the past couple of months; perhaps the most unusual occurrence is that the Sunday + Wednesday E07 schedule, 1700 UTC start, has made a change of operating mode from old fashioned amplitude modulation with a carrier and both side-bands to SSB, noticed on the very first day of July.
There has often been a problem with E07 AM schedules in the past with very low levels of audio resulting in difficult to impossible copy, although this had been much improved in the weeks before the move to SSB.
This is the schedule which sent several very long messages earlier in the year, group counts of over two hundred, and when the "full message" format appeared in July and August group counts were much more modest, but would have been at one time considered to be higher that usual.

Does the combination of long messages and the use of SSB indicate that the recipient is engaged on an ongoing mission of great importance?

Also, the related Saturday E07a, 0800 UTC start, hit the airwaves with a "full message" transmission on the last Saturday in June and the first one in July; since this schedule has been sending the standard "no message" routine for some considerable time, this might be regarded as a bit unusual. It has since reverted to type with the usual two minutes of "000".

Short-wave propagation, as always, very variable, most noticeable, for example, on regular schedules; worst of all in the summer months has been the HM01 "mixed mode" station from Cuba, generally very weak signals; perhaps things will improve now that we are loosing daylight as we move towards autumn. [From PoSW]

One can be forgiven for asking why there is an image of the RAF's Hawk T2 aircraft flying in diamond formation.

Whilst I stood atop my University building watching this lot flypast I was unable to hear the RAF band striking the accompanying music. The Hawk T1 flying past to strains of '633 Squadron.'

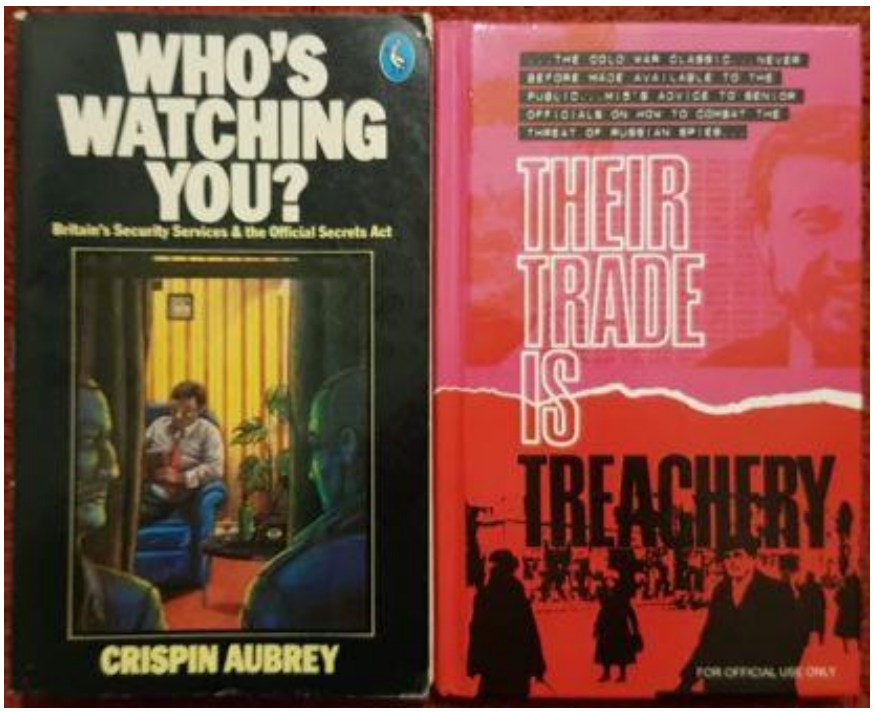
However, BR noted the tune these T2's flew past as 'The Lincolnshire Poacher,' the music often heard with the now gone E03 The Lincolnshire Poacher

LAST ISSUE FRONT COVER

Reading out request for more detail on the Moscow Building we receive this from ENIGMA 2000's 'Man on the spot.' The Military Commission for the City of Moscow can be found on Prospekt Mira a few hundred metres south of the metro station of the same name. He assumed this organ has some sort of admin function, but was unable to find any local contact to clarify its role.

The vertically polarised Yagis are not for TV for 2 reasons. The main TV tower for Moscow - Ostankino - is barely 3 miles away so the occupants of the building would be able to pick them up on a coat hanger, but also it transmits with horizontal polarisation (tv aerials almost out of shot over to the right). Comparing the vertical Yagis to the tv aerials suggest 40+ megs plus. 'Our man' said if he finds out what the Commission does, he'll let us know. [Thanks!]

Recommended Reading



Who's Watching You?

A good solid read published in 1981 it describes not only the very interesting ABC Trial [letters depict accused surnames] of 1978 but also events leading to it and claimed legal skulduggery.
It was this book that effectively outed GCHQ, at the then 'Oakley site, into the public view unless you were a minority reader of The Statesman where Duncan Campbell [C] had penned some interesting pieces, usually with a SIGINT subject about them.
The author, Crispin Aubrey [A] joined with Campbell to interview John Berry[B] an ex-corporal in the Royal Signals.
[*I'm watching you 499*]
Berry had served some years with 9 Signals at the Ayios Nikolaos SIGINT base and had become disgruntled at whet he was having to do. He had also read the Time Out article 'The Eavesdroppers' written by Duncan Campbell in 1976 [feasibly the first 'public' outing of Britain's SIGINT/ELINT organisation into a then minority magazine with limited circulation].
After contacting Duncan Campbell a meeting was arranged at a flat along with Crispin Aubrey and John Berry, plus tea, coffee and a tape recorder. Notebooks ready the interview was underway when Special Branch arrived and made three arrests.
The ensuing trial, for offences against the Official Secrets Act, was fraught with legal challenges; Colonel B, the evidence , a jury member and a whole host of other matters.
Eventually all involved received non-committal sentences – from a trial whose cost had reached a six figure sum. GCHQ became a byword in society, you were a nobody if you could not claim the two clicks at the start of a landline call that hailed you were being capped.
There's are some interesting images in the book. One of the pieces of evidence offending the OAS is shown: an image of the Post Office Tower [now BT Tower] and its antenna. Part of a Microwave link that spans Britain it was also part of a system code named 'Back Bone' to ensure communications in the event of severe difficulty [Nuclear War]. This is covered in two later Duncan Campbell Books.
Another image shows a crystal bound VHF receiver and powerpack and entitled Telephone Tapping instrument. Whilst it was easy to ignore that Britain had at the time its forerunner of cellular phone technology. That was System 4. Using tones it used five out of six frequencies somewhere in the 159 and 164MHz bands [if I remember correctly]. Listening on a warbling frequency you'd apparently hear important people talking on these in-car devices, calling wives, employers and the occasional government official. Very illegal to do.
Mr Moffat also appears, or rather Detective Chief Inspector Moffatt of Special Branch is photographed in profile and sporting his usual light coloured mackintosh. A true gent, full faced he bore an uncanny resemblance to the Irish actor TP McKenna. I spent a few memorable evenings in his presence in the 'Tank,' a bar for police officers on the ground floor of New Scotland Yard [at St James' …. Now demolished and relocated] with a few other colleagues.
It's a decent book indeed; technically accurate and, I suspect, one that HMG wishes was never printed.

Their Trade is Treachery (Central Office of Information)

The Amazon blurb reads: 'In the early 1960s, various UK government committees made recommendations on how to begin combatting what it perceived to be the growing threat to the UK from the Cold War spy armies. Perhaps the most famous outcome was the 'For Official Use Only' booklet produced for Civil Servants and the Armed Forces. Now reproduced for the first time since 1964, Their Trade is Treachery gives a fascinating glimpse into the world of secrecy, paranoia and betrayal that was the British Civil Service during the height of the Cold War.

This revealing little volume was originally released in 1964 for issue to those working in the Diplomatic Service – that would include DWS ops too – and reprinted as facsimile in 2010. It is an interesting read citing different examples of British employees who are contacted by 'those who do not have the best interests of HMG and Britain to heart.'

It costs around £7 and sill available – really recommended.

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

André, (F5JBR), has been monitoring a new network that he came across while searching for Russian Naval stations. Believed to be North Korean Military. Below are André's notes & logs.

> I have been running the bands (from 2 to 16 MHz) for several weeks ... especially looking for information on the Russian Pacific Navy. Since 3 days now I hear new networks, these networks are noted "North Korean Military",; these networks were not active until July 15 otherwise I think I would have heard several. Thanks to Ary for identifying networks. André,
>
> Strength of station from various SDR receivers: QSA 4 on Chinese SDR
> QSA 5 on Russian SDR
> QSA 3 on 2 Japanese SDR

Logs:

Heard this morning on 5553 kHz 25 July - Call sign JWN. All logged using remote SDR Japan.

5553	0500z	25 Jul	JWN	VVV CQ (x3) de JWN (x2) QTC NR 115 QTC NR 125 QTC 135 QTC NR 145 (transmitted several times)
	0503z	25 Jul		QTC NR 115 QTC 02 17 = 05308 45544 60493 09484 90196 56679 61743 43410 92927 40711 78151 93027 77890 65703 55884 62674 88782 K ABV QTC 02 17 = 05308 45544 60493 09484 90196 56679 61743 43410 92927 40711 78151 93027 77890 65703 55884 62674 88782 K
	0507z	25 Jul		QTC NR 125 QTC 02 11 = = 55001 40000 08698 38573 86560 64550 46453 43568 15916 26693 63280 K ABV QTC 02 11 = = 55001 40000 08698 38573 86560 64550 46453 43568 15916 26693 63280 K
	0511z	25 Jul		QTC NR 135 QTC 02 19 = = 40541 47572 37188 52754 41316 58937 98588 71677 40622 42823 01713 70854 85326 04461 54600 03601 60208 79263 06378 = ABV QTC 02 19 = = 40541 47572 37188 52754 41316 58937 98588 71677 40622 42823 01713 70854 85326 04461 54600 03601 60208 79263 06378 K
	0514z	25 Jul		QTC NR 145 QTC 02 21 = = 01003 88434 53243 … / … = K ABV and Repeat message K and QRU SK

Other stations / Freqs heard - In chronological order wth call signs if given

4169	1901z	24 Jul		605410 12666 84281 71863 76599 48502 01672 23225 69811 k QRU QRU SK
3578	1903z	24 Jul		502013 95805 58794 62788 97496 05410 12666 84281 71863 76599 48502 04682 23224 69811 K QRU SK QRU
4763	1335z	25 Jul	2PK	2PK Wkg VFH (Calling and QTC) in Duplex – Traffic Heard : NOTE : the calls are to the manual manipulator & the messages are transmitted using a machine, see a computer or something that is close to it. VVV VVV VFH de 2PK QTC VVV VVV VFH de 2PK QTC = 01 15 = 22225 16015 70086 73580 43465 25478 86733 81512 02231 80023 21476 03107 83841 63846 21351 K ABV VV QTC 01 15 = 22225 16015 70086 73580 43465 25478 86733 81512 02231 80023 21476 03107 83841 63846 21351 K QRU K VVV VVV VFH de 2PK QTC VVV VFH de 2PK QTC = 01 15 = 22225 16015 70086 73580 43465 25478 86733 81512 02231 80023 21476 03107 83841 63846 21351 K ABV VV QTC 01 15 = 22225 16015 70086 73580 43465 25478 86733 81512 02231 80023 21476 03107 83841 63846 21351 K QRU SK
3706.6	1417z	25 Jul	L83	VVV CQ (x23) de L83 (x3) QSA ? 9554 (x3) Wkg A70 PA6 in Simplex – TRAFFIC HEARD : 1418z 6PD de L83 QSA5 AS 9554 K 6PD OK OK K L83 de AZ0 QSA 5 OK AS 9554 K CQ de L83 QSA ? 9554 K AZ0 de L83 QSA 5 AS 9554 K
	1424z			VVV VVV CQ CQ De L83 QTC QTC NR 01 14 010 07 25 2300 3000 510 = 20624 06245 70624 06257 06254 70625 78062 06247 90990 48062 K (Repeated x2) QSL ? K
	1436z			L83 de AZ0 ABV ABV ABV QTC NR 01 14 010 07 25 2300 3000 510 = 20624 (Repeat message) AZ0 de L83 OK OK SK SK End Traffic at 1506z
4254.5	1737z	25 Jul	NDF	1LM de NDF QTC NR 26 14 10 10 07 25 0240 825 966 = 28963 82639 57415 26396 57451 52398 40370 89569 99820 K
	1741z	25 Jul	VM7	1LM de VM7 QTC NR 26 14 10 10 07 25 .../… (VERY LOW)…
3639.5	1751z	25 Jul		QRC NR 82921 44617 32010 87838 21586 34363 44712 57867 11130 62077 18165 K ABV (repeat message) K QRU SK
	1800z	25 Jul		QTC NR 02 17 = 05308 45544 60493 09484 90196 56679 61743 43410 92927 40711 78151 93027 77890 65703 55884 62674 88782 K ABV QTC 02 17 = 05308 45544 60493 09484 90196 56679 61743 43410 92927 40711 78151 93027 77890 65703 55884 62674 88782 K
3764	1803z	25 Jul	B3A	CW VVV NIS de B3A QSA 5 QTC QTC NR NR 63 W4 = 41087 54952 73534 73053 K ABV (repeat message) K
3385		25 Jul	5O5	5O5 Wkg PC6 GAE 3MD KS6 MGL (QSO and NET Send OP ?? : responses outstations send numbers 6787 6848 …) in Simplex
3640	1817z	25 Jul	LNK	LNK Wkg AJC (AJC de LNK QTC NR 02 W13 = 38831 45910 73805 94172 59996 65294 04367 56272 18656 67681 80521 35310 83278 K ABV QTC NR 02 W13 = 38831 45910 73805 94172 59996 65294 04367 56272 18656 67681 80521 35310 83278 K QRU K (In Duplex)

3777.5 1822z 25 Jul PK2 QTC 03 14 = 43701 08038 59124 60984 68025 88418 63813 41004 32943 71319 71574 30652 84957 87815 K
ABV QTC 03 14 = 43701 08038 59124 60984 68025 88418 63813 41004 32943 71319 71574 30652 84957 87815 K (Duplex on 3639.5)

3639.5 1827z 25 Jul OVU VVV PK2 de OVU QSL QTC 03 14 = 43701 08038 59124 60984 68025 88418 63813 41004 32943 71319
71574 30652 84957 87815 K
ABV QTC 03 14 = 43701 08038 59124 60984 68025 88418 63813 41004 32943 71319
71574 30652 84957 87815 K QRU SK (In Duplex Qsx on 3777.5)

3633 1828z 25 Jul *(In progress)* 04238 04036 41042 75935 44996 26927 28487 11275 91153 67998
65210 13178 K

ABV QTC 2 13 26 0202 2 = 39645 52865 97430 70596 43034 06326 25180 95700 25932 50897
04238 04036 41042 75935 44936 26927 28487 11275 91153 67998
65210 13178 K

ABV ABV QTC 2 13 26 0202 2 = 39645 52865 97430 70596 43034 06326 25180 95700 25932 50897
04238 04036 41042 75935 44936 26927 28487 11275 91153 67998
65210 13178 K QRU SK

3777.5 1840z 25 Jul 8RI PK2 de 8RI QSL QTC VVV PK2 de 8RI QSL QTC

3764 1842z 25 Jul B3A VVV NIS de B3A QSA 5 QTC QTC NR NR 62 W10 = 41244 86085 82700 63387 95416 35347 87951 35885 54619 03578 K
ABV QTC NR 62 W10 = 41244 86085 82700 63387 95416 35347 87951 35885 54619 03578 K

3639.5 1847z 25 Jul 8RI PK2 de 8RI QSL QTC VVV PK2 de 8RI QSL QTC

3593 1850z 25 Jul NIS QTC QTC NR 62 W10 = 41244 86085 82700 63387 95416 35347 87951 35885 55619 03578 K
ABV QTC NR 62 W10 = 41244 86085 82700 63387 95416 35347 87951 35885 55619 03578 K

5522 0816z 26 Jul 2G7 FSG de 2G7 QSA 638..48 K BK BK QSA 3 K QRU SK

5614.5 0823z 26 Jul PK2 8RI de PK2 QSA ? K QSA 2 638.41 K QRU QRU SK SK

4781 0840z 26 Jul LTI VVV LMT (x3) de LTI (x3) QRU VVV

4177 1310z 26 Jul FBC FBC Wkg XF3

4780 1340z 26 Jul MC3 MC3 Wkg XNI (VVV XNI de MC3 QRU)

4729 1344z 26 Jul A3B VVV FHV de A3B QTC 17 08 = = 22326 17008 02080 02919 03747 98591 68078 16936 VVV VFH de A3B QTC 17 08 =
(Repeat message) QRU SK

4763 1350z 26 Jul A3B VVV FHV de A3B QTC 17 08 = = 22326 17008 02080 02919 03747 98591 68078 16936 VVV VFH de A3B QTC 17 08 =
(Repeat message) QRU SK

4729 1356z 26 Jul A3B VVV QTC 17 08 = = 22326 17008 02080 02919 03747 98591 68078 16936 K QRU SK

4780 1401z 26 Jul M64 M64 Wkg XNI (XNI de M64 QSA 3.4 QRU SK)

4026.8 1538z 26 Jul GV7 P3B de GV7 QSA ? VVV P3B de GV7 QSA ? K

3758 1606z 26 Jul 9B4 3BN de 9L4 QRU VVV 3BN de 9B4 QRU SK SK

3433 1612z 26 Jul 1601 VVV LV JZS de 1601 (only Calling) QRU SK

3811 1742z 26 Jul 2G7 ML5 de 2G7 QSA 2 4644..2144 QRX 2115 QRX 2115 RU SK

1744z 26 Jul 2G7 WBT de 2G7 QSA ? K WBT de 2G7 QSA 638.47 K WBT de 2G7 QSA 638.44 K WBT de 2G7 QSA 0 638.43 K

3640 1745z 26 Jul AVF QSL QTC VVV AJC de AVF QSL QTC NR 04 W12 = = 76174 86959 28049 40907 71441 98491 02137 30662 34059 38376
07574 17265 K

3578 1800z 26 Jul XVD J3D de XVD QTC NR …. = 22275 01227 00022 47470 41226195 606171298 2510 60643 54354 17165 95136 00096 09510
34101 07800 92695 92694 95240 902135986

3635.5 1810z 26 Jul 505 5O5 Wkg K7C L8M GQE (QSO & NET Send OP ?? : responses outstations send numbers 9498 9247 … (In Simplex)

3640 1820z 26 Jul LNK AJC de LNK QSL QTC NR 03 W13 = 73110 72554 47383 59955 37601 79228 89894 263801 59187 71401 75515 16304 06095 K

3593 1845 26 Jul B3A NIS de B3A QSA 5 QTC QTC NR 63 W4 = 96634 61783 52579 62260 K QTC NR 63 W4 = 96634 61783 52579 62260 K

5553 0500z 27 Jul JWN CQ de JWN NR115 QTC NR 125 QTC NR 145 and QTC NR 115 QTC 04 76 = Text groups 5 Figures ABV repeat message
QTC NR 125 QTC 04 55 = Text groups 5 Figures ABV repeat message
QTC NR 145 QTC 04 56 = = Text groups 5 Figures ABV repeat message and QRU SK

5317 0530z 27 Jul *(In progress)* 88752 24587 ABV QTC 04 56 = 29848 Text groups 5 Figures
QTC NR 225 QTC 04 56 = Text groups 5 Figures ABV repeat message
QTC NR 235 QTC 04 41 = Text groups 5 Figures ABV repeat message
QTC NR 245 QTC 04 41 = Text groups 5 Figures ABV repeat message QRU SK

5339 0607z 27 Jul **(In progress)** 41592 83578 04448 K QTC NR 225 QTC 04 33 = 75515 41364 (Text groups 5 Figures) ABV repeat message
NR 235 QTC 04 45 = 02620 66722 86316 03499 27869 84597 65536 77610 44917 50703
55740 57269 53809 25579 38231 20384 01812 67499 49079 97657
41218 78610 61674 43171 88757 81400 98454 54547 51522 10816
72556 62979 98596 14502 95694 37165 67474 54693 46139 07432
12936 51696 45376 28556 38248 K
ABV QTC 04 45 = 02620 (repeat message
QTC NR 245 QTC 04 33 = 67455 86134 (Text groups 5 Figures)
ABV repeat message QRU

5614.5 0701z 27 Jul PK2 PK2 Wkg OVU (QSO and QTC : TRAFFIC - OVU de PK2 QSA ? K AS
QTC 03 76 = 59587 37560 26001 64391 .../.. (Text groups 5 Figures)
ABV repeat message The outstation repeat message QRU SK (In duplex)

5442.5 0731z 27 Jul PK2 CQ CQ de PK2 QTC NR 321 QTC NR 341
QTC NR 321 QTC 03 76 = = 57973 83665 68980 68845 43899 .../…(Text groups 5 Figures)
ABV repeat message QTC NR 341 QTC 03 76 = 44818 46644 68442 61284 (Text groups 5 Figures) ABV repeat message QRU SK

Thanks to André, (F5JBR), for these logs.

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

Amateur Attempts to Tell M01 of Spurious Signals
This curious incident occurred on Tuesday, 17 July. M01 had transmitted its message, as usual, only a fair signal into South East England. M01 signed with the expected DK GC & 0 0 0.

Immediately following the transmission another Morse signal appeared on the frequency with a strong signal. I have the following;

QSB QSD QSB QSK QSD Signals spr spurious sus spurious sigs 4hge 4hgie signals spr spurious sigs QSD OK? DE G3- - - *[Call sign redacted - Ed]*

QSD indicates that the signal is mutilated or defective. It appears that G3- - -, who is in Derbyshire, (If he was indeed using his correct call sign), was attempting to inform M01 that his signals were defective, presumably having noted the 'two-tone' nature of the transmission using two carriers 1kHz apart. His signal was good, but the Morse was not so good (QSB QSD QSK ?) I'm unsure of the 4hge part, but that's what I have.

M01, of course, did not reply! I'm not sure if G3- - - thought that he was calling another amateur station, however, it's difficult to see how the format could be confused with any amateur transmission.

Whoever sent the transmission used a full & valid English amateur call sign. This has not been included in case the call sign was being pirated, or, if it was the correct call, to save embarrassment to the individual concerned.

Hand-held reception of M01 from France
Chris, (CB) managed to catch the M01 transmissions from the end of July following a short break due to a house move. Although Chris has been unable to establish a full station, remarkably he was able to hear both transmissions on his Degan 1103 portable using only the fitted telescopic antenna from his garden in S.W France. It shows what can be achieved & is another recommendation for this little radio, which has been remarked on a number of times in various radio groups.

M01 Logs

Variant formats continue to be used on an irregular but frequent basis. There are three formats currently in use:

Standard Format:	197 (R4m) 117 117 30 30 = = 93447 .... 20478 = = 117 117 30 30 000	
Variant Format 1:	197 (R4m) 147/30 147/30 78902 ... 86083 147/30 000	(Frequently used)
Variant Format 2:	197 (R4m) 521=30 = = 521=30 = = 46547 ... 88305 = 521=30 = = 521=30 0=0=0	(Not used recently)

Slight variations of Variant Format 2 were seen on Tuesday, 14 August with 173 = 30 = = 66205 ... 94253 = = 173 173 = 30 30 000
& on Sunday, 26 August with 987 30 = 30 30 = = 42087 ... 97325 = = 987 987 = 30 30 000

July 2018:

4905	2000z	03 Jul	'025' 712 30 = = 59005 ... LG 39041 = =	Strong, Slow. No space between grp & rpt. Many errors	BR/GD	TUE
	20**04**z	05 Jul	'025' 123 30 / / 03698 ... LG 05789 = =	Strong, fast. Late start with burst of 'Vs'. Errors noted	BR	THU
	2000z	10 Jul	'025' 121 30 = = 44961 ... LG 73032 = =	Strong, fast. Perfect sending with no errors!	BR	TUE
	20**02**z	12 Jul	'025' 421 30 = = 97768 ... LG 61261 = =	Strong, fast. Start 421 111 421 30 30 Ended 05050	BR	THU
	2000z	17 Jul	'025' 745 30 = = 94167 ... LG 0214 = =	Strong, fast. Numerous errors with some garbled grps	BR	TUE
	20**01**z	19 Jul	'025' 127 30 = = 61029 ... LG 59585 = =	Strong, fast. Errors in grps 04 & 10	BR	THU
	2000z	24 Jul	'025' 813/30 17957 ... LG 38780	Strong, fast. No pause between grp & repeat. Format 1	BR	TUE
	2000z	26 Jul	'025' 436 30 = = 69504 ... LG 23969 = =	Strong, med-fast. Several errors - some corrected	BR	THU
	2000z	31 Jul	'020' 129 30 = = 90800 ... LG 80263 = =	Strong, steady if hesitant at times. No noted errors	CB	TUE
5280	1800z	03 Jul	'025' 711 30 = = 94855 ... LG 57139 = =	Good, slow. No space between grp & rpt. Many errors	BR/GD	TUE
	18**01**z	05 Jul	'025' 565 30 = = 32754 ... LG 02260 = =	Fair, fast. Poor signal for parts of msg. Errors noted	BR	THU
	1800z	10 Jul	'025' 177 30 = = 759 .6 ... LG 87728 = =	Weak - fair, fast. Corrected error on ending GC.	BR	TUE
	1800z	12 Jul	'025' 315 30 = = 69754 ... LG 77698 = =	Good, med-fast. Corrected error grp07. Ended 05050	BR/GD	THU
	1800z	17 Jul	'025' 707 30 = = 97083 ... LG 90122 = =	Fair, med-fast. Call-up & start DK GC used long zeros	BR	TUE
	1800z	19 Jul	'025' 179 30 = = 80939 ... LG 18852 = =	Fair, fast. Excellent. Perfect sending - No errors!	BR	THU
	1800z	24 Jul	'025' 812/30 02076 ... LG 47508	Weak, fast. No pause between grp & repeat. Format 1	BR	TUE
	1800z	26 Jul	'025' 437 30 = = 24886 ... LG 78904 = =	Fair, med-fast. Several corrected errors inc. in call-up	BR	THU
	1800z	31 Jul	'025' 181 30 = = 52801 ... LG 19258 = =	Fair, slow. No errors in msg. **See Note 1:**	CB	TUE
6435	1500z	07 Jul	'025' 631/30 46742 ... LG 77762	Fair, fast. No errors. Format 1	BR	SAT
	1500z	14 Jul	'025' 643 30 87804 ... LG 90551	Fair, fast. Many corrected errors. = = omitted (x2)	BR	SAT
	1500z	21 Jul	'025' 937 30 = = 32948 ... LG 44827 = =	Fair, fast. Copy difficult due to local QRM	BR	SAT
	1500z	28 Jul	'025' 136/30 51255 ... LG 51820	Fair, fast. No noted errors, Format 1	BR	SAT
6780	0700z	01 Jul	'025' 311 30 = = 69679 ... LG 99714 = =	No errors, with extra-long space between groups	GD	SUN
	0700z	08 Jul	'025' 642 30 = = 19464 ... LG 17376 = =	642 642 30 30 000	AB/HFD	SUN
	0700z	15 Jul	'025' 644 30 = = 10467 ... LG 43606 = =	644 644 30 30 000	AB	SUN
	0700z	22 Jul	'025' 704 30 = = 29772 ... LG 07773 = =	Weak/Fair, med-fast. Numerous corrected errors	BR	SUN
	0700z	29 Jul	'025' 138/30 11208 ... LG 43658	Fair, fast. No noted errors. Format 1	BR	SUN

Note 1: Changes were made to both the preamble & ending sequence. We have seen similar changes before, but we are not sure if these

Have any significance. Preamble: 181 181 **030** 30 = = Ending: 181 181 **SK** 30 30 000

August 2018:

4905	2000z	02 Aug	'025' 307 30 = = = = 61005 ... LG 00275 = = = = Strong, slow. 4 x = sent at start & end of msg!	CB	THU
	2000z	07 Aug	'025' 375 30 = = 88757 ... LG 59820 = = Strong, med-fast. Grps14 & 23 sent once only	BR/CB	TUE
	2000z	09 Aug	'025' 353 30 = = 82834 ... LG 46921 = = Fair, med-fast. Several single figure repeat errors	BR	THU
	2000z	14 Aug	'025' 173 = 30 = = 66205 ... 94253 = = 173 173 = 30 30 000 Short zeros. Very distorted signal	AB	TUE
	2000z	16 Aug	'025' 197 30 = = 25172 ... LG 72439 = = Strong, med-fast. Corrected error grp05	BR	THU
	2000z	21 Aug	'025' 761 30 = = 40334 ... LG 25822 = = Strong, fast. Two 3 fig rpt grps. Ended with 1800z DK	BR	TUE
	1959z	23 Aug	'025' 436 30 = = 42087 ... LG 97325 = = Fair. Good, steady CW. Three grps sent once only	CB	THU
	1959z	28 Aug	'025' 199 30 = = 49007 ... LG 72612 = = Strong, med-fast. Hesitant style CW. One error noted	BR	TUE
	1959z	30 Aug	'025' 315 30 = = 97175 ... LG 86892 = = Fair, slow. Several errors noted. Some 4-fig repeat grps	CB	THU
5280	1800z	02 Aug	'025' 195 30 = = 90845 ... LG 03636 = = Weak, med-fast. Error noted grp18 - repeated twice	BR	THU
	1800z	07 Aug	'025' 791 30 = = 50120 ... LG 73 .56 = = Weak, fast. Long pauses in call & grp22. Only 27 grps	BR/CB	TUE
	1800z	09 Aug	NRH on clear frequency	BR/CB	THU
	1800z	14 Aug	'025' 793 = 30= = 60279 ... LG 02205 = = 793 793 = 30 30 000 Long zeros used throughout	AB	TUE
	1800z	16 Aug	'025' 223 30 = = 00784 ... LG 81530 = = Weak / Fair, med-fast. Corrected error grp18	BR	THU
	1800z	21 Aug	'025' 147 30 = = 63222 ... LG . . . . . Weak, fast. Readable for most of msg. Faded at end	BR	TUE
	1759z	23 Aug	'025' 421 30 = = 11496 ... LG 19723 = = Fair. Steady, even delivery. Grp06 sent once only	CB	THU
	1759z	30 Aug	'025' 217 30 = = 27997 ... LG 86370 = = Strong, slow. Numerous errors. Two grps sent once only	CB	THU
6435	1500z	04 Aug	'025' Station heard active but too weak a signal for any useful copy	CB	SAT
	1455z?	18 Aug	In progress at 1500z. Very early start as 9 grps already sent. Good, very slow. Ended 1509z	BR	SAT
	1500z	25 Aug	'025' 178 30 = = 11496 ... 19723 = = Good, fast. Excellent CW. Grp30 19723 19724	BR/CB	SAT
6780	0700z	05 Aug	'025' 137 30 = = 50552 ... 18787 = = Fair / Good. Two corrected errors. Only 29 grps sent	BR/CB	SUN
	0700z	12 Aug	'025' 220 30 = = 83349 ... 42546 = = Weak /Fair, slow. Long zeros used in preamble & ending	BR/CB	SUN
	0700z	19 Aug	'025' 315 30 = = 13810 ... 03710 = = Error in grp09	Gert	SUN
	0701z	26 Aug	'025' 987 30 = 30 30 = = 42087 ... 97325 = = 987 987 = 30 30 000 Grp22 used long & short zero	BR	SUN

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

8042	1533z	01 Jul	111 333 15 111 333 16 333 16 111 000	F5JBR	SUN
9053	1542z	01 Jul	269 (x3) 27688 (x2) 55 333 27671 333 27108 333 27108 333 27538 333 23638 040 1 269 (x3) 333 25463 333 28863 333 27563 040 02 111 000	F5JBR	SUN

M01b

Early Message Changes
Usually, M01b sends one message per calendar month, with a new message commencing on the first scheduled transmission for the following month. The July message was 238 38 sent until a new message, 131 31 was heard from 23 July onwards. This message was transmitted for the remainder of July & for all of August. Poor conditions meant that the first message was only partially logged, whereas a full transcript of the 2nd message was achieved.

On 24 August another change with a new message being heard on Friday 24 August of 725 31.

July 2018:

5065//5805	1942z	12 Jul	Weak sigs on both freqs - No useful copy	BR	THU
	1942z	19 Jul	'936' Weak sigs on both freqs	BR	THU
	1942 - 1958z	26 Jul	'936' 131 31 = = 72468 04445 ... 36344 33994 = = Fair//Good	BR	THU
5075//5465	1902z	13 Jul	Carrier present on both freqs - No audible mod.	BR	FRI
	1902z	20 Jul	'336' 238 38 = = 68979 31408.... Weak/Fair sigs on both freqs	BR	FRI
5095//5760	1832z	12 Jul	Carrier present 5095kHz Strong XJT QRM on 5760kHz	BR	THU
	1832z	19 Jul	'815' Weak sig on 5095kHz. Strong XJT QRM on 5760kHz	BR	THU
	1832z	26 Jul	'815' 131 31 = = 72468 04445 ... 36344 33994 = = Fair//XJT QRM	BR	THU
5735	1810z	02 Jul	'364' 238 38 = V.weak	GD	MON
5125//5735	1810z	09 Jul	Carrier present on both freqs - No audible mod.	BR	MON
	1810z	16 Jul	Carrier present on both freqs - No audible mod.	BR	MON
	1810z	23 Jul	'364' Weak sigs on both freq	BR	MON
	1810z	30 Jul	'364' 131 31 = = Fair//V.Weak	BR	MON
5475	1915z	02 Jul	'858' 238 38 =	GD	MON

5150//5475	1915z	09 Jul	NRH both freqs - Carriers still present on 1810z freqs		BR	MON
	1915z	16 Jul	Carrier present on 5150kHz. Weak sig on 5475kHz. No useful copy		BR	MON
	1915 - 1933z	23 Jul	'858' 131 31 = = 72468 04445 ... 36344 33994 = =	Weak//Fair	BR	MON
	1915 - 1933z	30 Jul	'858' 131 31 = = 72468 04445 .... Start sent as 131 131 31 = 31 =		BR	MON

August 2018:

5065//5805	1940 - 1958z	02 Aug	'936' 131 31 = = 72468 04445 ... 36344 33994 = =	Fair//Fair	BR	THU
	1940 - 1958z	09 Aug	'936' 131 31 = = 72468 04445 ... 36344 33994 = =	Good//Weak	BR	THU
	1940 - 1958z	16 Aug	'936' 131 31 = = 72468 04445 ... 36344 33994 = =	Fair//Fair	BR	THU
	1940z	23 Aug	'936' No useful copy. Severe local QRM	Fair//Fair	BR	THU
	1940z	30 Aug	'936' 131 31 = = 72468 .... Local QRM	Fair//Fair	BR	THU
5075//5465	1902 - 1920z	03 Aug	'336' 131 31 = = 72468 04445 ... 36344 33994 = =	Fair//Fair	BR	FRI
	1902 - 1920z	10 Aug	'336' 131 31 = = 72468 04445 ... 36344 33994 = =	Fair//Weak	BR	FRI
	1902z	24 Aug	'336' 725 31 = = 43942 17451 ... 76639 87056 = =	Fair//Fair	BR	FRI
	1902 - 1920z	31 Aug	'336' 725 31 = = 43942 17451 ... 76639 87056 = =	Fair//Fair	BR	FRI
5095//5760	1832z	02 Aug	'815' No useful copy	Weak//XJT QRM	BR	THU
	1832z	23 Aug	Carrier present on 5095kHz. XJT QRM on 5760kHz		BR	THU
5125//5735	1810z	27 Aug	'364' Carrier present on 5125kHz. Weak sig on 5735kHz		BR	MON
5150/5475	1915z	05 Aug	'858' 131 31 = = 72468 04445 ... 36344 33994 = =	Fair//Good	BR	MON
	1915z	13 Aug	'858' 131 31 = = 72468 04445 ... 36344 33994 = =	Good//Fair	BR	MON
	1915z	20 Aug	'858' 131 31	Fair//Weak	BR	MON
	1915z	27 Aug	'858' 725 31 = = 43942 17451 ... 76639 87056 = =	Fair//Weak	BR	MON

M01b 5475kHz 1915 - 1933z 23 July 2018

858 (R4m) 131 131 31 = 31 = =

72468 04445 75144 15411 44382 19314 68275 67929 88702 84070 88654 14933 04885 71320 54522 70654 90370 56118 25968 67077 43696 09385 94400 69316 62169 64394 82121 91416 04618 36344 33994 = =

131 131 31 31 000

Courtesy BR

(Note the extra = between the two GCs - Sent on all transmissions of this msg)

M01b 5075kHz 1902z 31 August 2018

336 (R4m) 725 725 31 = 3 31 = =

43942 17451 91358 66843 38629 21595 65121 61084 40155 12359 04889 66198 40054 69347 09686 07494 70166 58187 06398 84456 59416 94123 52369 37778 76171 04861 65721 84632 74006 76639 87056 = =

725 725 31 31 000

Courtesy BR

(Note the extra = between the two GCs - Sent on all transmissions of this msg)

M08a XVIII ICW / CW, some MCW

This report from AnonUS - Our Man in America;

Good news! Following the past few months of negative reports and almost 4 months since the last recorded transmission M08a made a return to its 1400z slot on 24 August. This followed a few very brief transmitter checks heard during the month of August, (see logs). There seem to be no changes to the format after this long layoff. At the beginning of September the usual weekend call ups were also noted.

Unlike their HM01 counterpart the M08a folks do not seem to have changed their computer clocks yet and although they seem to be coming up late in progress the timing of the transmissions ending at around 29 minutes past the hour indicates they are starting approximately 5 minutes before the top of the hour.

Logs:

07 August 1346z 2 second transmitter check. Transmitter checks also heard on the 12th, 16th & 17th 20th

8096	1400z	24 Aug	[03271 15811 38342]		AnonUS	FRI
	1400z	27 Aug	[- - - - 80722 03142]		AnonUS	MON
	1400z	30 Aug	[86762 10182 23421]		AnonUS	THU
	1400z	31 Aug	[- - - - 11631 24062]		AnonUS	FRI
8135	2300z	24 Aug	[- - - - 20361 - - - - -]	Came up in progress, mostly too weak to copy	AnonUS	FRI

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

An Unusual Use of Frequencies - And an Odd Numerical Sequence

July's Wed / Fri 1950z sched was; 16323/14923/---kHz 1950/2010/2030z ID 395.

What is unusual with the June freqs is that they were very close to those used in May – and the same is true of July.

May	16194/14794/---	ID 173
June	16217/14817/---	ID 284
July	16323/14923/---	ID 395

Also, notice how each individual number in the IDs increases by one each month. Very unusual, and why would it be necessary to change freqs by such a small amount from month to month?

The August frequencies were; 16148/14748/---kHz 1950/2010/2030z ID 174

This has broken the pattern we saw over the last three months - but the frequencies are still remaining very close to those from the previous months. A very unusual use of scheduled frequency change over successive months.

Asiatic M12 Scheds

12103/10603/9303	0700/20/40z	05 Jul	163 1 (4345 53) 07805 14675 ... 36625 15632 000 000	Repeat of 3 July	AB	THU
	0700/20/40z	17 Jul	163 1 (8003 45) 62719 38123 ... 94228 13129 000 000		AB	TUE
	0700/20/40z	19 Jul	163 1 (8003 45) 62719 38123.....etc.		RNGB	THU
12193/11093/10293	0500/20/40z	02 Aug	122 000	(Via SDR Russia)	AB	THU
	0500/20/40z	07 Aug	122 1 (563 69) 13346 65543 ... 51568 32699 000 000	(Via SDR Russia)	AB/HFD	TUE
	0500/20/40z	21 Aug	122 1 (8078 57) 73732 49126 ... 68296 41629 000 000	(Via SDR Russia)	AB	TUE

European M12 Logs

July 2018: **New scheds in bold type**

8047/6802/5788	1800/20/40z	02 Jul	463 1 (7222 95) 96025 49272....	BR	MON
	1800/20/40z	09 Jul	463 1 (4768 91) 30651 85353....	BR	MON
	1800/20/40z	16 Jul	463 1 (2623 94) 08937 32317....	BR	MON
	1800/20/40z	23 Jul	463 1 (1288 92) 43350 40695....	BR	MON
	1800z	30 Jul	463 1 (1037 97) 76568 74643....	BR/GD	MON
9217/10617/12217	0500/20/40z	07 Jul	262 1 (525 81) 09000 20136....	BR	SAT
	0500/20/40z	14 Jul	262 000	BR	SAT
	0500/20/40z	21 Jul	262 1 (394 137) 29985 13104 ... 35079 38594 000 000	AB/HFD	SAT
	0500/20/40z	28 Jul	262 000	BR	SAT
9379/7979/---	2100/20/40z	04 Jul	398 1 (525 81) 09000 20136....	BR	WED
	2100/20/40z	11 Jul	398 000	Gert/HFD	WED
	2100/20/40z	18 Jul	398 1 (394 137) 29985 13104....	BR	WED
	2100/20/40z	25 Jul	398 000	BR	WED
10343/9264/8116	2000/20/40z	08 Jul	124 1 (6316 103) 65752 73345 ... 68361 99178 000 000	Gert	MON
	2000/20/40z	16 Jul	124 1 (8917 106) 84753 84776....	BR	MON
	1900/20/40z	12 Jul	124 1 (5426 112) 15166 22889 ... 64741 85735 000 000	Gert	THU
	1900/20/40z	19 Jul	124 1 (1120 123) 23468 04929....	BR	THU
	1900/20/40z	23 Jul	124 1 (2292 104) 85955 45733....	BR	MON
	1900/20/40z	26 Jul	124 1 (3419 115) 79676 96330....	BR	THU
	1900/20/40z	30 Jul	124 1 (6221 106) 27895 38501....	BR	MON
13381/12181/---	**2110/30/50z**	**05 Jul**	**317 000**	BR	THU
	2110/30/50z	**09 Jul**	**317 000**	Gert	MON
	2110/30/50z	12 Jul	317 000	BR	THU
	2110/30/50z	16 Jul	317 000	BR	MON
	2110z	19 Jul	317 000	Gert	THU
	2110/30/50z	23 Jul	317 000	BR	MON
	2110/30/50z	26 Jul	317 000	BR	THU
	2110/30/50z	30 Jul	317 000	BR	MON
13469/12169/---	**2210/2230/2250z**	**11 Jul**	**411 000**	Gert	WED
	2210/30/50z	18 Jul	411 1 (5463 93) 94060 41734....	BR	WED
	2210/30/50z	**21 Jul**	**411 1 (5463 93) 94060 41734....**	BR	SAT
	2210/30/50z	28 Jul	411 000	BR	SAT
14377/13461/12114	1700/20/40z	05 Jul	317 1 (8191 110) 86331 51350....	BR	THU
	1700/20/40z	12 Jul	317 1 (4328 101) 20116 31745....	BR	THU
	1700/20/40z	19 Jul	317 1 (5231 107) 34705 14139.... 14377kHz not heard S.E. UK	BR	THU
	1700/20/40z	26 Jul	317 1 (2286 102) 55053 73898....	BR	THU
15821/13921/12221	1400/20/40z	02 Jul	892 000	Gert	MON
	1400/20/40z	04 Jul	892 000	HFD	WED
	1400/20/40z	09 Jul	892 1 (250 121) 53799 41684 ... 27977 81265 000 000	Gert	MON
	1400/20/40z	11 Jul	892 1 (250 121) 53799 41684 ... 27977 81265 000 000	Gert	WED
	1400z	16 Jul	892 000	GD	MON
	1400/20/40z	18 Jul	892 000	BR	WED
	1400/20/40z	23 Jul	892 1 (476 155) 88022 26552....	BR	MON
	1400/20/40z	25 Jul	892 1 (476 155) 88022 26552....	BR	WED
	1400/20/40z	30 Jul	892 000	BR	MON
16323/14923/---	**1950/2010/2030z**	**04 Jul**	**395 000**	BR/HFD	WED
	1950/2010/2030z	**06 Jul**	**395 000**	BR	FRI
	1950/2010/2030z	11 Jul	395 000	Gert	WED
	1950/2010/2030z	13 Jul	395 000	BR	FRI
	1950/2010/2030z	18 Jul	395 000	BR	WED
	1950/2010/2030z	20 Jul	395 000	BR	FRI

August 2018:

8047/6802/5788	1800/20/40z	06 Aug	463 1 (6928 94)	46132 54430....	BR	MON
	1800/20/40z	20 Aug	463 1 (7690 100)	77535 79267 ... 46496 47096 000 000	AB	MON
8123/6923/5823	2100/20/40z	01 Aug	198 1 (4083 51)	73445 39328 ... 89049 17846 000 000	Gert/HFD	WED
	2100/20/40z	08 Aug	198 000		tiNG	WED
	2100/20/40z	15 Aug	198 1 (563 67)	24528 31737....	BR	WED
	2100/20/40z	22 Aug	198 000		BR	WED
	2100/20/40z	29 Aug	198 000		BR	WED
9167/10267/---	0500/20/40z	04 Aug	125 1 (4083 51)	73445 39328....	BR	SAT
	0500/20/40z	11 Aug	125 000		BR	SAT
	0500/20/40z	18 Aug	125 1 (563 67)	24528 31737....	BR/HFD	SAT
	0500/20/40z	25 Aug	125 000		AB	SAT
9264/8116/5788	1800/20/40z					
5788	1840z	13 Aug	463 1 (8888 96)	95358 62498 ... 16188 74511 000 000	Gert	MON
10343/9264/8116	1900/20/40z	02 Aug	124 1 (9154 128)	31466 42822 ... 33381 03580 000 000	Gert	THU
	1900/20/40z	09 Aug	124 1 (3587 115)	42305 42683....	BR	THU
	2000/20/40z	13 Aug	124 1 (7440 104)	71482 35920 ... 53849 03371 000 000	Gert	MON
	1900/20/40z	16 Aug	124 1 (6869 115)	13065 89736 ... 19135 66131 000 000	Gert	THU
	2000/20/40z	20 Aug	124 1 (9837 107)	76653 33749 ... 27414 48063 000 000	AB	MON
	1900/20/40z	23 Aug	124 1 (4594 121)	76624 23114....	BR	THU
	2000/20/40z	27 Aug	124 1 (7268 110)	90786 47188....	BR	MON
	1900/20/40z	30 Aug	124 1 (2262 125)	34820 75903 ... 15692 35127 000 000	Gert	THU
11469/10269/---	**2210/30/50z**	**08 Aug**	**421 000**		BR	WED
	2210/30/50z	**11 Aug**	**421 000**	11469kHz was NRH	Gert	SAT
	2210/30/50z	22 Aug	421 000		BR	WED
	2210/30/50z	29 Aug	421 000		BR	WED
12214/11014/---	**2110/30/50z**	**06 Aug**	**209 000**		BR	MON
	2110/30/50z	**09 Aug**	**209 000**		tiNG	THU
	2110z	13 Aug	209 000		Gert	MON
	2100/30/50z	16 Aug	209 000		BR	THU
	2110/30/50z	20 Aug	209 000		AB	MON
	2110/30/50z	23 Aug	209 000		BR	THU
14377/13461/12114	1700/20/40z	02 Aug	317 1 (3802 110)	30570 58082....	BR	THU
	1700/20/40z	09 Aug	317 1 (1341 109)	96109 89314....	BR	THU
	1700/20/40z	16 Aug	317 1 (1009 1 . .)	7 . . . 9 .... (Weak signal on all freqs)	BR	THU
	1700/20/40z	30 Aug	317 1 (7420 108)	21220 07586 ... 14567 03374 000 000	Gert	THU
15983/14683/13383	1400/20/40z	01 Aug	963 000		BR	WED
	1400/20/40z	06 Aug	963 1 (6898 157)	18943 00743....	BR/HFD	WED
	1400/20/40z	08 Aug	963 1 (6898 157)	18943 00743 ... 70465 28008 000 000	Gert	WED
	1400/20/40z	15 Aug	963 000		BR	WED
	1400/20/40z	20 Aug	963 1 (259 181)	98955 73724 ... 33487 90464 000 000	AB	MON
	1400/20/40z	29 Aug	963 000		BR	WED
16148/14748/---	1950/2010/2030z	01 Aug	174 000		BR	WED
	1950/2010/2030z	03 Aug	174 000		BR	FRI
	1950/2010/2030z	08 Aug	174 000		tiNG/HFD	WED
	1950z	10 Aug	174 000		Gert	FRI
	1950z	15 Aug	174 000	(Logged on recording of E07 on 16147kHz at 1900z)	DanAR	WED
	1950/2010/2030z	17 Aug	174 000		Gert	FRI
	1950/2010/2030z	22 Aug	174 000		BR	WED
	1950/2010/2030z	24 Aug	174 000		BR	FRI
	1950/2010/2030z	29 Aug	174 000	NRH on 16148kHz Very weak on 14748kHz	BR	WED

M12 12103/10603/9303kHz 0700/0720/0740z 05 July 2018

163 163 163 1 (R2m) 4345 53 5345 53

07805 14675 03514 19691 80638 39815 04276 42963 46194 46276
84788 70976 42176 89445 98611 91230 15404 65512 16981 57949
70417 06887 64814 18895 73307 90321 30282 75350 55617 14768
11067 87081 70344 68962 74693 58517 24004 86598 31923 48426
85315 87405 17147 89635 23688 28048 00442 01901 09147 40159
38422 36625 15632 000 000

Asiatic Schedule - Repeat of 03 July *Courtesy AB*

M12 8123/6923/5823kHz 2100/2120/2140z 01 Aug 2018

198 198 198 1 (R2m) 4083 51 4083 51

73445 39328 95537 65223 82807 23372 07882 44490 86637 25436
45037 97838 67032 56054 07177 51263 13507 47651 01356 15758
19210 46658 26872 13771 51589 42043 49428 03053 61165 11006
17183 28236 95662 20369 64639 87195 10592 39228 17900 51202
34452 74914 78776 82406 93577 61334 91495 18756 95924 89049
17846 000 000

Courtesy Gert

M14 IA MCW / ICW Short 0

Ary, (AB), noted an unusual change to the M14 routine. On Saturday, 28 July, instead of repeating its 0800z transmission at 0900z, it sent a different message.

July 2018:

5430	0800z	14 Jul	171 (725 25) = = Very weak signal, only able to copy a few groups		GD	SAT
	0800z	21 Jul	171 (184 59) = = 13253 26472 ... 12311 84502 = = 184 184 59 59 00000	MCW	AB	SAT
	0800z	28 Jul	171 (349 56) = = 45644 45646 ... 81230 67312 = = 349 349 56 56 00000	MCW	AB	SAT
5560	0900z	14 Jul	171 (725 25) = = 45323 09898 ... 01070 67812 = = 725 725 25 25 00000	MCW	AB	SAT
	0900z	21 Jul	171 (184 59) = = 13253 26472 ... 12311 84502 = = 184 184 59 59 00000	MCW	AB	SAT
	0900z	28 Jul	171 (707 42) = = 89734 67523 ... 65723 76534 = = 707 707 42 42 00000	MCW	AB	SAT
5938	1920z	25 Jul	417 (897 20) = = 65473....		HFD	WED
			417 (879 8879 20 20) = = Note mistake in DK, this was repeated at the end Ended with 3 minutes of continuous zero's		GD	WED
6876	2000z	06 Jul	725 00000		RNGB	FRI
7605	1900z	06 Jul	725 00000		RNGB	FRI
18041	0500z	05 Jul	952 (417 60) = = 35173 45288 ... 18102 51772 = =	CW	AB	THU
	0500z	13 Jul	952 (480 55) = = 12906 26666 ... 33273 50541 = = (Via SDR Japan)	CW	AB	FRI

August 2018:

5430	0800z	11 Aug	171 (007 40) = =		GD	SAT
	0800z	25Aug	171 (027 45) = = 45632 17653 ... 45632 17653 027 027 45 45 00000		AB	SAT
5560	0902z	18 Aug	171 (725 25) = = 45323 09898.... First 16 grps logged rest of msg faded out		GD	SAT
	0900z	25Aug	171 (027 45) = = 45632 17653 ... 45632 17653 027 027 45 45 00000		AB	SAT
5938	1920z	15 Aug	163 (006 20) 12354 65780 ... 19832 76530 006 006 20 20 00000		GD	WED
6856	1820z	14 Aug	163 (006 20) 12354 65780 ... 19832 76530 006 006 20 20 00000		GD	TUE
7605	1900z	03 Aug	735 00000		Gert	FRI
	1900z	17 Aug	735 00000		GD	FRI
16347	0930z	25 Aug	617 00000		AB	SAT
18041	0500z	02 Aug	952 (173 55) = = 51577 60738 ... 18354 88406 = = (Via SDR Japan)	CW	AB	THU
	0500z	06 Aug	952 (167 50) = = 88593 75009 ... 76272 30317 = =	CW	AB	MON
	0500z	07 Aug	952 (384 55) = = 34388 31007 ... 74051 44765 = = (Via SDR Japan)	CW	AB	TUE
	0500z	15 Aug	952 (164 50) = = 44342 69010 ... 85917 10621 = =	CW	AB	WED
	0500z	21 Aug	952 (381 60) = = 81300 69526 ... 02594 72377 = = (Via SDR Japan)	CW	AB	TUE

M14 5430kHz 0800z 28 July 2018

171 (R4m) 349 349 56 56 = =

45644 45646 81348 44564 24779 45456 32468 45313 15879 24566
56631 98763 65460 51212 53489 43179 55678 89731 38979 32465
64878 67894 32156 56489 56489 89789 56313 64987 54897 31189
56478 56789 32188 32478 21568 24878 32485 24589 32489 23458
89731 23132 32456 54231 21553 84763 32488 02121 03213 21022
31034 56450 31545 02458 81230 67312 = =

349 349 56 56 00000

Courtesy AB

M14 5560kHz 0900z 28 July 20 18

171 (R4m) 707 707 42 42 = =

89734 67523 56423 45678 45398 87943 76834 67843 67854 89056
78654 89543 87645 98007 00578 56743 09854 67230 63028 56489
42367 98054 34578 32189 01017 65732 98023 56723 78923 01234
54677 78923 56743 75623 07089 45467 01925 01023 56723 92934
65723 76534 = =

707 707 42 42 00000

Courtesy AB

Ary's (AB), logs of Saturday, 28 July - Instead of repeating the 0800z message at 0900z a different message was sent

M23 O ICW

No Reports

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

No Reports - Have the M24 transmissions ceased?

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

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

Morse Stations - Not Number Related

M51 XIX

Continuous Sending of Groups on 3881//6825 Ceases & Revised & Corrected Definition of M51 group Stations Issued

The continuous unscheduled transmissions that have been heard on 3881//6825kHz ceased sometime in August & were noted missing from 20 August.

As a result of the discussion that followed this event, it has been found necessary to correct & revise the M51 group definitions;

M51 Has been corrected to refer solely to the original definition of 100grp 5-ltr messages with format & headers - Ceased 05 June 2015

M51a Remains unaltered for the daily scheduled Morse lessons on 3881//6825kHz

M51b Is a new sub-definition to cover the continuous grps heard after M51 ceased on 05 June 2015 until their cessation in August 2018

Any further transmissions from the station can either be classified as above or given a new sub-designation e.g. M51c

A pdf of the revised definition is available for download from the 'ENIGMA 2000 Active Stations List' column at http://www.enigma2000.org.uk

This replaces that shown on the ENIGMA 2000 Active Stations List V1.3

Fortunately, the M51a Morse lessons are still being transmitted daily on the known schedules.

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

3881//6825

1130 - 1202z	28 Aug	Mardi-Leçon	02-2/1 Codé 02-2/2 Clair, 02-2/3 Codé, 02-2/4 Clair (600 grps/hr)	BR	TUE
0830z	23 Aug	Jeudi- Leçon	04-1/1 Codé, 04-1/2 Clair, 04-1/3 Codé, 04-1/4 Clair (840 grps/hr)	AB	THU
1130 - 1157z	23 Aug	Jeudi- Leçon	04-1/1 Codé, 04-1/2 Clair, 04-1/3 Codé, 04-1/4 Clair (840 grps/hr)	BR	THU
0700z	25 Aug	Samedi / Dimanche	4/LEÇON NØ1/1 CODÉ, 4/LEÇON NØ2/1 CLAIR (420 grps/hr)	AB	SAT
0816z	25 Aug	Samedi / Dimanche	3/LEÇON NØ1/2 CODÉ, 3/LEÇON NØ2/2 CLAIR (600 grps/hr)	AB	SAT

0830 UTC transmission: Thursday 23 August. Courtesy of Ary, (AB)

VVV VVV DE FAV22 FAV22 FAV22 QLH 3881/6825KHZ

VITESSE ANNONCEES LEGEREMENT SUPERIEURES.
JEUDI-LECON 04-1/1 VITESSE 840 CODÉ =
YETSR AUSHQ BWJSU APLMQ BWNSH ETSFZ WCQJA UWKQI NDHRT XCWJA MQKAU 26438 BXHDY ETXCQ WNBHJ EUIKL AMPLI NWXXV SHATD WNQHA UAYDG XVWBD XNQJU ZKQLA MPWNH JDUET XVCHD SNWJE SKQJA JAKSB JAKLO NHDFE 45768 NXHDT WCDGJ NQKAI OLQUA NWJET QFAIJ LOAUY KALIU YHDKL NXCDG 35476 BWNQH AYHSK 19065 NCJRT XCSJU IKAOL NXJDG FTEUS WNQKI ALPMQ ETDFX 46738 NCBXJ QKALO
AR

JEUDI-LECON 04-1/2 VITESSE 840 CLAIR =
JEAN-PIERRE DICK A PRIS LE COMMANDEMENT DU VENDÉE GLOBE DANS LA NUIT DE VENDREDI À SAMEDI ET BATTU LE RECORD DE LA PLUS GRANDE DISTANCE PARCOURUE EN 24 HEURES PAR UN MONOCOQUE DE 60 PIEDS. AVEC 498,8 MILES EN 24 HEURES LE SKIPPER DE VIRBAC PAPREC 3 A AMÉLIORÉ LE RECORD QUE SON COMPATRIOTE FRANÇOIS GABART AVAIT ÉTABLI LA VEILLE.
AR

JEUDI-LECON 04-1/3 VITESSE 840 CODÉ =
VXBSG ZTQFA KLQMP AIKDG ETSFZ WCQHA 26718 NDGET SCWVD 35427 KLQHR BXHRT ZUSHQ WVXCD AEZYU JKOLP QMATY BCHDF XHSUJ ETSFZ IKOLE SGAUE XVSGQ WNDXC DFEJQ LAMPW 36278 BXHDU ZJWNQ KLAUH IORTD CGDUE SHQJZ WBSJE DHAIJ DGSKL NWJHG FVXCD FUYTI HDNXV IKDGR FHBCV DFDFD ETSGD XHSFE ZYSUA JNWHD SJHUI TGFHE KHFTR GHFGC VBGHY JWKSL QMLAO LUJHG VNJKL XNDHT JKILD XCSVZ KLHGF 56473 CGETF XBDGE XGSTE ZHUAJ QKAIO 46378 45381 SUJAU OLETD QMLOA 26480 JDGTE XVSFZ QHAJF VNDKI RUHFG CBXHD ZUJSL IKLOJ KQUET FKCBF DHGXV CNFGC DTFGR SHJAK WLKQO MAPKI NBHTG AR

JEUDI-LECON 04-1/4 VITESSE 840 CLAIR =
DERRIÈRE EUX, BERNARD STAMM ET ALEX THOMSON S'ACCROCHENT. POUR CES DEUX HOMMES, LA PERFORMANCE EST DE TAILLE. ALEX DISPOSE D'UN BATEAU DE LA GÉNÉRATION 2008-2009 ET, MÊME SI SON PLAN FARR A DÉMONTRÉ SON POTENTIEL DE VITESSE EN REMPORTANT LA ROUTE DU RHUM AU MAIN DE ROLAND JOURDAIN, IL FAIT LÀ UNE COURSE REMARQUABLE DE TÉNACITÉ. BERNARD STAMM QUANT À LUI, AVAIT OSÉ SE LANCER DANS UN PROJET AUDACIEUX EN DÉCIDANT DE TRAVAILLER AVEC L'ARCHITECTE JUAN KOUYOUMDJIAN, À REBOURS DE LA TENDANCE GÉNÉRALE..
AR

CQ DE FAV22 VA

M89 O

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).

3232 3343 3456 3556 3570 3578 3611 3631 3650 3659 3675 3715 3721 3810 3844 3846 3866 3971	4078 4106 4123 4193 4240 4272 4349 4512 4537 4564 4672 4770	5016 5032 5081 5146 5220 5241 5305 5424 5478 5501 5632 5683	7589 7623 7762 7778 7811	8888	9090	10158 10400 10846

New Scheds for Jul / Aug 2018: **From logs submitted from JPL & F5JBR**

5305//10378	Finally found the // for 10378 Note.	First heard 02 Aug	V C4TY (x3) DE NSF5 (x2)	JPL
3378//4783	Changed Round Slip on 3378kHz	First heard 22 Aug	V JU7B (x3) DE 3FCX (x2)	JPL
	Continuing old Round slip on 4783kHz		V C4TY (x3) DE NSF5 (x2)	JPL
11093//NRH	New or changed Round Slip	First heard 23 Aug	V RISD (x3) DE QVMP (x3)	JPL
4943//7589	New Round Slip & freqs	First found 25 Aug	V ZJ4T (x3) de QB4S (x2)	F5JBR/JPL
9856//12058	New Round Slip & freqs	First found 26/27 Aug	V ZJ3T (x3) DE QB4S (x2)	F5JBR/JPL

I'm leaning towards thinking that this new R/S and frequencies is a change in frequencies and call sign for:
C4TY DE NSF5 (and other R/S used) which recently have been using: 3378 // 4783 10378 //5305 JPL

Chart of M89 Freq & Call signs heard in Jul / Aug 2018 **New Scheds shown in Bold Type** **From logs submitted from JPL & F5JBR**

Freq in KHz	Call Slip
3238//4870	V M8JF (x3) DE RIS9 (x2)
3238//4870//**6874**	V M8JF (x3) DE RIS9 (x2)
3378//NRH	V C4TY (x3) DE NSF5 (x2)
3378//NRH	V JU7B (x3) DE 3FCX (x2)
3378//4483	V JU7B (x3) DE 3FCX (x2) (Different R. Slips)
3378//4783	V C4TY (x3) DE NSF5 (x2)
4131//NRH	V JKDJ (x3) DE SLBC (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//NRH	VVV WNF (x3) DE FXM (x2)
4720//5150	VVV WNF (x3) DE FXM (x2)
4783//NRH	V C4TY (x3) DE NSF5 (x2)
4860// 6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ?
4870//NRH	V M8JF (x3) DE RIS9 (x2)
4870//6874//8157	V M8JF (x3) DE RIS9 (x2)

Freq in kHz	Call Slip
4943//7589	**V ZJ4T (x3) de QB4S (x2)**
5177//NRH	V JKDJ (x3) DE SLBC (x2)
5305//10378	**V C4TY (x3) DE NSF5 (x2)**
6840//10640	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K
6874//8157	V M8JF (x3) DE RIS9 (x2)
7620//8350	V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K
8350//NRH	V WNF (x3) DE FXM (x2)
9856//12058	**V ZJ4T (x3) de QB4S (x2)**
10378//NRH	V C4TY (x3) DE NSF5 (x2)
11093//NRH	**V RISD (x3) DE QVMP (x3)**

Logs Received - Many of these may be exercise traffic as suggested by use of IEC designation

3232		1639z (IP) 28 Jul	R NR 015/EX FU 199 BT	Hand sent - Horrible CW!	(Remote tuner Siberia)	JPL	SAT
3340	H2IF	1146z 31 Jul	H2IF Wkg NJE8 KFA3 NR 1211 / EX 1948 RKMS 9229 TO 9227 9221 = /465C NR 9305 CK 81 32 03 07 31 1951 RMKS 9229 TO 9227 9221 =		(Via SDR Japan)	F5JBR	TUE
3343		1710z (IP) 30 Aug	MSG NR 3114 CK 41 94 0831 0100 BT		(Remote tuner Siberia)	JPL	THU

3556	XP3W	1618z	26 Aug	XP3W Wkg W4FT S1AR YK7X 2GUC F6CE GM3W (Via SDR Japan)	F5JBR	SUN
				NR 1097/EX 0040 = A6B1/K7D3 AR		
				NR 1098 CK61 46 0827 0030 = 5ND6 6D7A..../... (In Duplex – Qsx on 3507)		
	XP3W	1258z	28 Aug	XP3W Wkg W4FT S1AR YK7X 2GUC F6CE GM3W IOS3 (In Duplex – Qsx on 3507)	F5JBR	TUE
		1712z	29 Aug	NR 1489 CK 61 49 0830 0100 RMKS 7031292 TO 7031290 BT (Remote tuner Siberia)	JPL	WED
3570		1622z (IP)	30 Aug	DMY4/HF72 AR NR 1180/EX 0027 BT (Remote tuner Siberia)	JPL	THU
3611	U8SD	1604z (IP)	29 Aug	NR 7012/EX 0003 BT NR 7022/EX 0003 BT (Remote tuner Siberia)	JPL	WED
		1612z (IP)	29 Aug	NR 7015/EX 0012 BT BKNJ/X2QD AR (Remote tuner Siberia)	JPL	WED
	U8SD	1622z (IP)	30 Aug	NR 7079/EX 0024 BT FQ4E/WR3T AR (Remote tuner Siberia)	JPL	THU
3631		1635z (IP)	30 Aug	IEC BT RD/SQ K V K7X/FA8R K (Normally associated with Exercise traffic)	JPL	THU
				MSG NR 1481/EX BT V1/B7/V1/B7V1/B7 II (1641z)		
				VK7X/FA8R K 2BUC/E5MP K NBCE/DPG9 K JM3W/7CUY K		
				LOS3/B3UN K NR 1482 CK 61 15 0831 BT C1AR/HE9W K 2BUC/E5MP K		
3650	SZW9	1433z	24 Jul	QEF4 (x2) de SZW9 V (Via SRD Japan)	F5JBR	TUE
				QSO with 7 outstations PUN8 RMJ5 GTNO I4R4 RXZ6 0XFD GH8D in Duplex - Qsx on 3312		
	SZW9	1702z	31 Jul	QEF4 (x2) de SZW9 V & CL (Via SDR Japan)	F5JBR	TUE
				QSO with 7 outstations Q8BP …. LY9M RXZ6 GIN9 8JHD (In Duplex – Qsx on 3312)		
3708	6DMR	1851z	28 Aug	6DMR Wkg P2DY CDJ5 9XUP FYL9 (QSO) (In Duplex – Qsx on 3788)	F5JBR	TUE
3797	XSE3	1401z	28 Aug	XSE3 Wkg 3AMX (QSO and MSG) (Via SDR Japan)	F5JBR	TUE
				NR 0545 EX 22 03 RMKS 4488 TO 4368 = KSU1AWQ1 AR		
				QSL 2205 & LSB : Trafic in LSB Mode) (In Duplex – Qsx on 3697)		
3844		1609z (IP)	29 Aug	NR 1044/EX 0009 BT (Remote tuner Siberia)	JPL	WED
		1616z		NR 1046/EX 0015 BT		
	MFMI	1632z		IEC BT U861 AR IEC BT 6617 AR K (Normally associated with Exercise traffic)		
3846		1508z	24 Aug	88 0824 2230 RMKS 9634 TO 6474 K ... BT 7N45 DNUT.... (Remote tuner Siberia)	JPL	FRI
4078	EVAL	1601z	29 Aug	NR 2081/EX 0000 BT E5XB/C3Q8 AR (Remote tuner Siberia)	JPL	WED
4088	HH6T	0135z	28 Aug	HH6T Wkg KNVB (QSO and MSG) (Via SDR JAPAN)	F5JBR	TUE
				NR 4442 CK32 24 08 28 2200 RMKS 1291 TO 9081 K & TEXT GROUPS 4 letters end figures) in Simplex		
4123		1740z (IP)	26 Aug	IEC BT 5661 AR K (Normally associated with exercise traffic) (Remote tuner Japan)	JPL	SUN
				NR 6452/.KB CK 59 78 0827 0130 RMKS 1003 TO 1424 TO 1478 TO 1475 TO 1003 K		
4349	O4B	1618z	29 Aug	NR 1081/EX 0018 BT Y3Z2/B7C8 AR (Remote tuner Siberia)	JPL	WED
4714	6DMR	1831z	28 Aug	6DMR Wkg P2DY CDJ5 9XUP FYL9 (QSO and QSY NR02 is 3708 kHz) in Duplex	F5JBR	TUE
5220		1258z (IP)	26 Aug	NR 0099 67 42 0822 0820 RMKS CQ CQ BT (Remote tuner China)	JPL	SUN
				NR 0099 CK 67 42 0822 0830 RMKS		
4240		1105z (IP)	30 Jul	NR 8223/EX 2024 BT 8UY2/98CL BT (Remote tuner Japan)	JPL	MON
4512	4RF3	1347z	03 Jul	4RF3 Wkg Y6HN (MSG … RMKS 9270 TO 9990 = text groups 4 fig) in Duplex – Qsx on 4721	F5JBR	TUE
4564		1427z (IP)	27 Jul	NR 5520 CK 91 . 4 0727 2150 RMKS 1298686 TO 1298683 K (Remote tuner China)	JPL	FRI
4661	XKF5	1839z	28 Aug	XKF5 Wkg 8NJL K3DT D3JM 3DSL 4ZDJ VX4S H4ME (Via SDR JAPAN)	F5JBR	TUE
				HR NR 1521 /EX 0240 RMKS CQ = A2N8/B1M3 AR		
				HR MSG NR 1529 CK 66 92 0829 0230 RMKS CQ = = UT65 T756 6DNA .../… (In Duplex)	F5JBR	TUE
5016		1625z (IP)	29 Aug	NR 1083/3X 0024 BT (Remote tuner Siberia)	JPL	WED
5032		1704z (IP)	29 Aug	NR 3213 CK 74 35 0830 .... RMKS .031296 TO 7031291 K (Remote tuner Siberia)	JPL	WED
5146		1623z (IP)	29 Aug	NR 1086/EX 2418 BT JSKN/R6YB AR (Remote tuner Siberia)	JPL	WED
5220		1111z (IP)	29 Aug	CK 66 75 0829 2100 RMKS 11580 1788 K (Remote tuner Siberia)	JPL	WED
5501	F29D	1627z (IP)	29 Aug	NR 1485/EX 0027 BT B2A8/NBYJC (Remote tuner Siberia)	JPL	WED
5630		0750z (IP)	31 Jul	QSY LG VY 11549 RMKS S4003 TO 4026 K (Remote tuner Siberia)	JPL	TUE
5733	3SEM	1000z	29 Aug	3SEM Wkg VG4S (calling & QSY 34 and QSY 36) in Duplex (Via SDR Japan)	F5JBR	WED
5743	3SEM	1004z	29 Aug	3SEM Wkg VG4S (calling and QSY 36 (probably 5505 kHz) (Via SDR Japan)	F5JBR	WED
				HR MSG NR 0155 CK 41 04 08 29 1750 = AU4SD D3AU		
				(Send LSB LSB and Traffic in LSB mode) in Duplex – Qsx on 5505		
5824	4RF3	1344z	03 Jul	4RF3 Wkg Y6HN (QSO and QSY 02) in Duplex – Qsx on 4721 (Via SDR Japan)	F5JBR	TUE
7762		0841z (IP)	27 Jul	NR 2802 CK 1.99 36 0727 1500 RMKS 6980 TO 5280 K (Remote tuner China)	JPL	FRI

INFORMATION: for M89 networks below. All logged by F5JBR Wed 29 August
For 30 minutes, the NET Station transmitted on a frequency its call sign: for example "VJRZ VJRZ VJRZ VJRZ AR", then transmitted a message that was repeated 2 times, then a QSY and the transmission resumed on a new frequency ... with a new call sign

3830	VJRZ	1208z	29 Aug	VJRZ Wkg Outstations (VJRZ VJRZ AR HR NR1156 EX 2009 = Y5Z8N1O4 NR 1056 EX 200 = Y5Z8N1K4 AR QSY 29 QSY 29 VVV) in Broadcast
3776		1210z	29 Aug	NET Station Wkg Ostns (Traffic heard :1325/EX 2009 = M8/N7 NR 1325 2009 = M8/N7 QSY 04) in Broadcast
3712	4TRT	1212z	29 Aug	4TRT Wkg Ostns (Traffic heard :4TRT AR NR0168/EX 2011= D6FE/G63Z AR QSY 03 QSY 03 VVV) in Bcast
3751	GHX1	1215z	29 Aug	GHX1 Wkg Ostns (Traffic heard :GHX1 AR and ééé 057/EX 2015 = B6C8/A9S3 AR NR 1057/EX 2015 = PZ8F/6DVR AR QSY 11 VVV) in Broadcast
3866		1218z	29 Aug	NET Station Wkg Ostns (Traffic heard :éé NR 4036/EX 2015 = NYU4/BQ3A AR QSY QSY 16 VVV) in Bcast
3810	2SRQ	1219z	29 Aug	2SRQ Wkg Ostns (Traffic heard : 2SRQ AR éé NR 41/EX 2021 = BA3C/QR13 AR) in Broadcast
3747	PQK6	1225z	29 Aug	PQK6 Wkg Ostns (Traffic heard PQK6 AR éé NR 1649/EX 2024 = W0P7/T8C5 AR and QSY 36) in Bcast
3751		1227z	29 Aug	NET Station Wkg Ostns (Traffic heard :éé NR NR 1061/EX 2027 = 2QL4/WM78 AR SK SK) in Broadcast

Additional Information supplied by JPL.

Same thing happened at 1600z using Siberia remote tuner as follows:

Freq.	Time	Call Sign	Msg No.	QSY
4078	1601z	EVAL	2081/EX	03
3611	1604z	U8SD	7012/EX	11
3810	1608z	-	-	04
3844	1609z	-	1044/EX	14
3611	1612z	U8SD	7015/EX	OLD
3866	1615z	-	-	02
3844	1616z	-	1046/EX	14
4349	1618z	O4B	1081/EX	18
5146	1623z	-	1086/EX	08
5016	1625z	-	1083/EX	25
5501	1627z	-	1485/EX	-

DP Stations

4894	1500 (IP) - 1509z	27 Jul	Calls to DP stations DP8191, DP7191 & DP8391	(Remote tuner Siberia)	JPL	FRI
8980	0203 (IP) - 0205z	27 Jul	CQ (x3) DE DP91 (x2) V HR NIL SK GB (x3)	(Remote tuner Siberia)	JPL	FRI
	0959 - 1011z	02 Aug	DP91 (x3) DE CQ (x2) V HR NIL SK GB (x9)	(Remote tuner Siberia)	JPL	THU

M89 5081kHz 0957 (IP) - 1009z 27 August 2018

R IEC BT DNXE AR (IP – Hand sent – Noisy - 0957z)
NR R R IEC BT BBU (Both stations on this frequency)
IEC BT BUK EEEEE (Normally exercise related)
IEC BT ....

R HR WK NR 5046 2..6 K
R HR WK NR 50462977 K
R MSG GA K
R
MSG NR 3082 CK 64 35 0827 1750 RMKS 5046296 TO 5046297 K
(0959z)
R GA
MSG BT 4A76 63A7 67AD 5DAU 43A6 67T4 6543 3A56 UNT6
(Cont'd – 0959z)
AR (1002z)
R R QSL 1802 K
RPT K
QSL 1802 K
R GA K
RR
MSG NR 5077 CK 61 35 0827 1750 RMKS 5046297 TO 5046296 K
(1004z)
R GA K
BT 3DUA TDUA UNA5 DU.. DATU (Cont'd – 1004z)
AR (1007z)
R QSL 1807 K
NR 3082 CK 63 35 0827 1750 RMKS 5046296 TO 5046297 K
R GA
R BT 4A76 63A7 67AD 5DAU 43A6 (Cont'd – 1009z)

Courtesy JPL

M89 3659kHz 1708 (IP) - 11713z 06August 2018

VVV CQ (x3) DE PGD EEEEEE (IP – Hand sent – 1708z)
VVV CQ (x3) DE PGBD FFF
NR 0130/EX 0105 BT
UUJG AR
BT UUJG QSL DE BWZJ SK
QQSL 6DE 8ITWI K (Both stations on frequency - 1710z)
GDEG 108 QSL DE
JRWC K
DE JRWC K
R QSL
BKVL SK
R DGDG O108
VVV TCAR K (1711z)
HR 7G GA K
R GA
GA
MSG NR 0131 CK 80 24 0807 0100 RMKS CQ II BT
MSG 1P BT
7N6U 5A74 6N3D T4UN 3A6D 57AD 4T37 T7A6 4UD5 5N6U

M89 4894kHz 1500 (IP) - 1509z 27 July 2018

(DP91)

DP81.1 QSA 2 I ? (1500z) (Outstation frequency)
DP8191 QSA 2 U ?
DP91E DP8191 QSA 2 .? (1501z)
DP8191 QSA 2 ? K
DP7191 QSA .. ?
DP7191 QSA I U ?
DP8391 QSA 2 U ? (1503z) (Monitored until 1509z)

Courtesy JPL

M95 O XSV, XSV70, XSV85

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

3642//NRH	Call Sign 3A7D	(Active daily - only first log has been included)				
	1550z	01 Aug	3A7D wkd DKG6 (Only : DKG6 de 3A7D V)	(Via SDR Japan)	F5JBR	WED
3642//7602	Call Sign 3A7D	(Active daily - only first log has been included)				
	1742z	04 Jul	V DKG6 (x3) DE 3A7D (x2) (IP - Cont'd)	(Remote tuner Siberia)	JPL	WED
	1637z	01 Aug	V DKG6 (x3) DE 3A7D (x2) (IP - Cont'd)	(Remote tuner Siberia)	JPL	WED
4118	**05 05 (Long Zero)**					
	1313 (IP) - 1334z	**26 Jul**	**05 05 50 50 50 50 AU3 3S 50 50**	**(Remote tuner China)]**	**JPL**	**THU**
4243//**7345**	0931 (IP) - 0950z	27 Aug	NR 54 CK 142 35 0827 1709 BT	(Remote tuner Japan)	JPL	MON
			NR 54 CK 142 35 0827 1709 BT		JPL	MON
4243//9054	Message number differs from current XSV70 and XSV85 message numbers.					
	1143 (IP) - 1150z	02 Aug	NR 083 CK 19 35 0802 1605 BT	(Remote tuner China)	JPL	THU
	1143 (IP) - 1209z	07 Aug	NR 093 CK 18 35 0807 1508 BT	(Remote tuner China)	JPL	TUE
			NR 14 113 35 0807 1552 BT	JPL	TUE	
			NR 074 CK 19 35 0807 1624 BT		JPL	TUE
4283//7553	Call sign XSV70					
	0926 (IP) - 1034z	26 Aug	NR 810 CK 151 35 0826 15.5 (Very noisy)	(Remote tuner Siberia)	JPL	SUN
			NR 808 CK 113 35 0826 0700		JPL	SUN
4364//8073	Call Sign XSV85					
	0001 - 0013z	27 Jul	NR 0642 CK 139 35 0727 0655 BT	(Remote tuner China)	JPL	FRI
	1132 - 1140z	02 Aug	NR 0655 CK 47 35 0802 1609 BT	(Remote tuner China)	JPL	THU
	1142 - 1144z	07 Aug	NR 0675 CK 3.. 35 0807 1631 BT	(Remote tuner China)	JPL	TUE
4381	**Call sign 8UIV**					
	1321 (IP) - 1332z	25 Jul	NR 1204/EX 0809 = YDS7/DF9D AR	(SDR Japan)	F5JBR	WED
			NR 1205 / EX 0812 = 345S/7DS7 (repeat 2 times)		F5JBR	WED
			NR 1206 EX 0815 = 173EI/OEO AR (repeat 2 times)		F5JBR	WED
			NR 1207 / EX 080 18 = 4D8S/KDI9 AR		F5JBR	WED
			NR 1208 / EX 0821 = D4FE/OSMD AR		F5JBR	WED
			NR 1209 / EX 0824 = O4DV/VDK5 AR		F5JBR	WED
			NR 1210 / EX 0827 = VHSO/VUF3 AR		F5JBR	WED
4775	**Call sign 8FGR / FYE5 (8FGR and FYE5 are same Station)**					
	1238z	05 Jul	FYE5 Wkg BVF3 (QSO) in Simplex –	(SDR Japan)	F5JBR	THU
	1244z	05 Jul	8FGR Wkg 4 outstations NX8W S..Q K8EQ J… (QSO in simplex)		F5JBR	THU
	1251z	05 Jul	FYE5 Wkg NG9E BVF3 NHY6 (QSO & QSL MSG NR 62 and NIL SK		F5JBR	THU
4974	**Call sign 6FUG**					
	1230z	01 Aug	6FUG Wkg WE4W YEH3 KCD3 (QSO & msg in Simplex)	(SDR Japan)	F5JBR	WED
			NR 84/EX RMKS CQ = WU4/LJ3 AR			
5801//NRH	Call Sign 3A7D	(Active daily - only first log has been included)				
	1406z	03 Jul	3A7D Wkg DKG6 (Only : DKG6 de 3A7D V)	(Via SDR Japan)	F5JBR	TUE
	1204z	01 Aug	3A7D Wkg DKG6 (Only : DKG6 de 3A7D V)	(Via SDR Japan)	F5JBR	WED
5801//10180	Call Sign 3A7D	(Active daily - only first log has been included)				
	1100z	09 Jul	V DKG6 (x3) DE 3A7D (x2) (IP - Cont'd)	(Remote tuner Siberia)	JPL	MON
6421	**SDY7**					
	1221z	25 Jul	NR 3969 EX 2024 = C7P5/K8T9 AR QSY NR 23 QSY NR 23 VVV	(SDR Japan)	F5JBR	WED
7602//10180	Call Sign 3A7D	(Active daily - only first log has been included)				
	1404z	13 Jul	V DKG6 (x3) DE 3A7D (x2) (IP - Cont'd)	(Remote tuner Siberia)	JPL	FRI

9054	Call sign XSV85 All logged via Remote tuner Hong Kong unless stated *(See also 4243//9054kHz listing)*				
	2341 (IP) - 2353z	26 Jul	NR 39 CK 16 35 0727 0..18 BT	(Remote tuner China)	JPL THU
			NR 39 CK 16 35 0727 06.. BT		JPL THU
			NR 070 CK 23 35 0727 0644 BT		JPL THU
			NR 53 CK 080 35 0727 0705 BT		JPL THU
10180	Call Sign 3A7D	(Active daily - only first log has been included)			
	1030z	10 Jul	V DKG6 (x3) DE 3A7D (x2) (IP - Cont'd)	(Remote tuner Siberia)	JPL TUE

M95 4381kHz 1321z 25 July 2018

NR 1204/EX 0809 = YDS7/DF9D AR

QSY 5 QSY 5
VVV SD87
éé **NR 18 AR** **(é** dit dit dah dit dit)
éé **NR 1205 / EX 0812 = 345S/7DS7** (repeat 2 times)
1206 / EX 0812 = 345S/7DSQ AR
QSY 6 QSY 6
DSOP éééé **NR1206 /EX 08 AR**
éé **NR1206 EX 0815 = 173EI/OEO AR** (x2)
QSY 7 QSY 7
VVV QWE9 éé QWE9 QWE9
éé **NR 1207 / EX 0818 = 4D8D/KDI9AR**
éé **NR 1207 / EX 080 18 = 4D8S/KDI9 AR**
QSY 8 QSY 8
VVV 6CVS éé **NR 1208 / EX 0821 = D4FE/OSMD AR**
ééé **NR 1208/EX 0821 = D4FE/OSMD AR**
QSY 9 QSY 9
VVV 4VH5 4VH5 éé **NR 1209 / EX 0824 = O4DV/VDK5 AR**
QSY 10
VVV 8UIV 8UIV éé **NR 1210 / EX 0827 = VHSO/VUF3 AR**
SK SK

E.T. at 1332z

Courtesy F5JBR

M95 4243kHz 1143 (IP) - 1209z 07 Aug 2018

IP - In Chinese digital 4+4 QPSK 75/3000
LSB - 1143z Switched to CW - 1144z

VV HR 7G TO YR PSE
NR 093 CK 18 35 0807 1508 BT
5TD UTT TT7 3U6 3A4 357 373 4TN U7U N4A
434 3DA TTU TT3 773 435 3DU 4D3 AR (1149z)
MSG AGN
NR 093 CK 18 35 0807 1508 BT (Repeats message – 1149z)
AR
A HR MSG GA
NR 14 113 35 0807 1552 BT
UTU TT7 3U6 3A4 TTU 773 354 N35 374 4TA
NAT 4TN 445 474 437 4D3 3DA TT3 773 354
N35 374 4AA 445 474 (Cont'd – 1153z)
AR
NR 14 CK 113 35 0807 1552 BT
UTU TT7 3U6 3A4 TTU 773 354 N35 374 (Repeats msg – 1200z)
AR (1204z)
A HR MSG GA
NR 074 CK 19 35 0807 1624 BT
UT5 TT7 3U6 3A4 TTA TTU TT3 773 357 373
N45 374 4AD N3D 4UT 445 346 D33 33D AR (1206z)
MSG AGN
NR 074 CK 19 35 0807 1624 BT (Repeats message – 1207z)
AR
A HR UP SB WK (1207z) (Switched to voice – USB – Female Chinese – Now V26 Sked – 1209z)

Courtesy JPL

Marker Beacons (MX MXI)

4558.1	2254z	16 Jul	MXI CW Beacon "A" Astrakhan		MON
5153.7	2257z	16 Jul	MXI CW Beacon "D" Sevastopol		MON
5154.1	2259z	16 Jul	MXI CW Beacon "A" Astrakhan		MON
5156.9	2207z	24 Aug	MX CW Beacon "L" (Fast)		FRI
7508.7	2301z	16 Jul	MXI CW Beacon "D" Sevastopol		MON
7508.9	2332z	16 Jul	MXI CW Beacon "S" Sevoromorsk		MON
7509.1	2302z	16 Jul	MXI CW Beacon "A" Astrakhan		MON
8497.8	2212z	24 Aug	MX CW Beacon "L" St Petersburg		FRI
10871.7	2214z	24 Aug	MXI CW Beacon "D" Sevastopol		FRI
10871.9	1337z	27 Aug	MXI CW Beacon "S" Sevoromorsk		MON
10872.1	2214z	24 Aug	MXI CW Beacon "A" Astrakhan		FRI
13528	1327z	27 Aug	MXI CW Beacon "C" Moscow		MON
16331.7	1408z	31 Aug	MXI CW Beacon "D" Sevastopol		FRI
16332.2	0157z	13 Jul	MXI CW Beacon "F" Vladivostok	(Via SDR Japan)	FRI

Contributors: AB, AnonUS, BR, Daniel/AR, Danix, F5JBR, GD, Gert, HFD, JPL, RNGB, tiNG *Thank you all for your logs.*

Voice stations, Polytones and Hybrids

E06

July/Aug log:

Thursdays **0300z 14932kHz 0400z 12212kHz**
No reports

First /Third Thursday (repeats Friday) **0500z 13825Hz 0600z 15615kHz**
05/07 '679' 483 51 91237 74361 57502 29301 84584 55546 53546 49363 31880 58331 68434 75794 59830 56260 44965 72854 17072 01671 65601 31742 28998 43582 60667 05224 40189 83572 06488 92082 05367 74333 36901 88448 14831 90583 16601 48223 65304 27042 49715 19762 12122 03128 22090 51024 63704 79097 00699 80361 04265 13283 38612 483 51 00000

19/07 '679' 821 50 32778 58569 25822 30928 12517 84949 15571 66088 06236 72314 92260 78839 66389 04606 58875 75477 56375 33346 20750 96331 21076 74138 86838 15830 55949 95847 34353 59463 60585 32143 85221 79823 87674 70087 67806 58924 23325 95470 62302 28964 59664 99565 53271 28746 45661 76999 37743 37922 27111 69418 821 50 00000

0500z 13540kHz 0600z 16115kHz
02/08 '210' 974 53 67011 83142 86356 35621 08432 68576 12895 93331 18963 35464 40279 03862 84075 45514 23800 42019 48638 92181 51319 25028 63296 26327 40292 30954 47356 64383 47375 90519 66614 71239 51578 46595 49557 35012 96879 11054 90387 75904 05267 73673 12296 56330 96103 42787 89427 84496 72803 22342 50980 28630 62710 55091 15865 974 53 00000

16/08 '210' 638 54 45225 65902 34687 19872 48742 14183 07587 32030 98296 59676 90771 61970 95335 67809 77255 79261 84954 25738 86302 72574 47288 93195 85922 05964 97608 96247 32666 61565 18543 83039 14630 98402 72861 80591 08636 81995 70268 22942 87492 64456 86632 40972 38306 19762 59098 31717 77753 63890 05516 49241 75269 14504 96423 10974 638 54 00000

First/Third Thursday of month **2030z 5948kHz (frequency may vary slightly)**
05/07 & 19/07 '724' 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

02/08 735 289 54 12345 89657 45632 75684 95463 84567 06854 84657 91745 19567 85674 82821 85674 21972 91297 27890 84672 74284 73581 83861 74581 91248 17671 41812 97128 90486 43716 47534 85494 24353 91486 17410 97272 49191 04171 42468 12893 89758 43673 48727 51534 87281 87462 64874 74728 87284 84926 82941 81749 92471 67578 64618 84021 72492 289 54 00000
Windows shut down sound Ary

Friday following First & Third Thursday **2130z 5731kHz (frequency may vary slightly)**

20/07 '315' 847 58 67391 24518 97497 42873 48732 35875 94589 43543 93269 73231 39317 43073 24893 21956 58946 58943 68951 29618 93648 91693 64134 86596 42384 84274 56741 38549 74375 13248 24389 34923 43241 38432 49321 89589 32385 48434 91893 24832 39532 65764 32893 76738 78346 57263 75329 65287 41291 31284 82564 37539 38578 43969 35434 54363 25487 21645 72848 69529 847 58 00000
(started 2 minutes early) Ary

From PoSW, some analysis:

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

5-July-18:- 5934 kHz, call "724", DK/GC "149 149 52 52", one of those messages which have been used many times. S9 signal. As always with these E06 and related G06 schedules the start-up time is purely nominal; started this evening about a minute and a half before the half-hour.

19-July-18:- 5948 kHz (?), something there, very strong BC station on 5950 making copy impossible.

2-Aug-18:- 5936 kHz, missed the start having lost track of the time, S9 signal, ended with "289 289 54 54 00000" around 2040 UTC, computer shut-down sounds heard about a minute afterwards.

Friday 2130 UTC Schedule Following First + Third Thursdays:-

6-July-18:- 5740 kHz according to the readout on the RX, not the usual 5731; call "315",
DK/GC the ever-popular "149 149 52 52".

20-July-18:- 5731 kHz this evening, "315" and DK/GC "847 847 58 58", strong signal, voice started just after 2128 UTC.

3-Aug-18:- 5731 kHz, DK/GC "289 289 54 54"

17-Aug-18:- 5731 kHz, a late start by way of a change, no voice heard until approx 2132 UTC, call "315", DK/GC "149 149 52 52".

E07

PoSW's analysis and logs to start, followed by others' logs – with duplication.

E07 is normally predictable in terms of frequency schedules in any given month, but in July the Sunday + Wednesday schedule did the change from amplitude modulation to single side-band, also with a change from the usual frequencies.

Sunday + Wednesday Schedule, 1700 UTC Start:-

1-July-18, Sunday:- 1700 UTC, no sign of the expected first sending on the predicted frequency of 13898. It has often been the case that the first sending has been a very weak
signal, but there was not the slightest trace. A quick spin of the tuning found the following:-
12223 kHz, strong SSB signal, E07 with, "201 201 201 000".
1720 UTC, 11023 kHz, second sending, weaker signal.

Not the first time E07 has made a change of mode and frequency; the Monday + Wednesday schedule, 1900 UTC start in the summer months, did this in June of 2016.

4-July-18, Wednesday:- 1700 UTC, 12223 kHz, "201 201 201 1" for a "full message", DK/GC "220 93" x 2, strong signal.
1720 UTC, 11023 kHz, second sending, slightly weaker.
1740 UTC, 10123 kHz, third sending.

8-July-18, Sunday:- 1700 UTC, 12223 kHz, "201" and "220 93" again.
1720 UTC, 11023 kHz, and 1740 UTC, 10123 kHz, the repeats.

15-July-18, Sunday:- 1700 UTC, 12223 kHz, "201 201 201 000", peaking S9.
1720 UTC, 11023 kHz, weaker.

18-July-18, Wednesday:- 1700 UTC, 12223 kHz, S9, and 1720 UTC, 11023 kHz, weaker, "201 201 201 000".

25-July-18, Wednesday:- 1700 UTC, 12223 kHz, "201 201 201 1", DK/GC "7504 81" x 2,
peaking over S9.
1720 UTC, 11023 kHz, and 1740 UTC, 10123 kHz, the repeats, both indicating around S7 to S8.

1-Aug-18, Wednesday:- 1720 UTC, 12197 kHz, "316 316 316 000", second sending, first sending most likely on 13397, then.

5-Aug-18, Sunday:- 1700 UTC, 13397 kHz, "316 316 316 1", DK/GC "7504 81", S8 with QSB.
1720 UTC, 12197 kHz, second sending, S8 at first, became weaker after a couple of minutes.
1740 UTC, 10697 kHz, S8 with QSB.

8-Aug-18, Wednesday:- 1706 UTC, 13397 kHz, transmission in progress, missed the start, signal very weak at times, ended "000 000" 1710:30s UTC approx.
1720 UTC, 12197 kHz, "316" and "7504 81" as on the 5th, peaking S7-S8.
1740 UTC, 10697 kHz, third sending, S6 to S8.

12-Aug-18, Sunday:- 1700 UTC, 13397 kHz, "316 316 316 1", DK/GC "170 131" x 2, signal up and down, so weak as to be almost unreadable at times.
1720 UTC, 12197 kHz, signal again up and down.
1740 UTC, 10697 kHz, best sending of the three, S7 to S8.

15-Aug-18, Wednesday:- 1700 UTC, 13397 kHz, "316" and "170 131" again, indicating an "8" on the S-meter.
1720 UTC, 12197 kHz, and 1740 UTC, 10697 kHz, both a couple of S-points weaker.

22-Aug-18, Wednesday:- 1700 UTC, 13397 kHz, "316 316 316 1", DK/GC "369 134", weak signal, sometimes very weak sinking into the noise.
1720 UTC, 12197 kHz, second sending much stronger, peaking over S9 at times.
1740 UTC, 10697 kHz, third sending back to a weak signal, occasionally up to S4 or so,
the middle sending by far the strongest.

Monday + Wednesday Schedule, 1900 UTC Start:-

4-July-18, Wednesday:- 1900 UTC, 16263 kHz, "273 273 273 000", weak signal.
1920 UTC, 14763 kHz, second sending, much stronger signal, S8.

16-July-18, Monday:- 1900 UTC, 16263 kHz, "273 273 273 1", DK/GC "523 61" x 2, weak signal.
1920 UTC, 14763 kHz, around S6.
1940 UTC, 13363 kHz, third sending, by far the strongest pushing the needle over the "9".

18-July-18, Wednesday:- 1900 UTC, 16263 kHz, "273" and "523 61" again, signal much stronger than on the 16th, S7.
1920 UTC, 14763 kHz, over S9; the transmission failed around 1920:25s UTC, came back around 1920:40s, started the warm-up routine from the start again reaching the DK/GC at 1922:50s UTC.
1940 UTC, 13363 kHz, S8.

25-July-18, Wednesday:- 1900 UTC, 16263 kHz, still "273" and "523 61", weak signal.
1920 UTC, 14763 kHz, weak but clear.
1940 UTC, 13363 kHz, third sending S9+ in contrast with the first two transmissions.

1-Aug-18, Wednesday:- 1900 UTC, 16147 kHz, a new trio of frequencies for August, "164 164 164 1", DK/GC "523 61" x 2, the same message which has been heard since mid July. S9+, very strong signals.
1920 UTC, 14647 kHz, second sending, over S9.

1940 UTC, 13447 kHz, also over S9.

6-Aug-18, Monday:- 1900 UTC, 16147 kHz, "164" and "523 61" again, strong signal.
1920 UTC, 14647 kHz, and 1940 UTC, 13447 kHz, repeats, also strong signals.

8-Aug-18, Wednesday:- 1900 UTC, 16147 kHz, "164" and still "523 61", unlike on previous occasions a weak signal.
1920 UTC, 14647 kHz, and 1940 UTC, 13447 kHz, both stronger indicating S7 to S8.

20-Aug-18, Monday:- 1900 UTC, 16147 kHz, "164" and "523 61" again, first heard in mid July. Weak signal, difficult copy.
1920 UTC, 14647 kHz, and 1940 UTC, 13447 kHz, both weak, much weaker than on previous occasions.

22-Aug-18, Wednesday:- 1900 UTC, 16147 kHz, "164" and still "523 61", weak signal.
1920 UTC, 14647 kHz, and 1940 UTC, 13447 kHz, both much stronger, S9.

27-Aug-18, Monday:- 1900 UTC, 16147 kHz, very weak signal of some kind, unreadable, unable to confirm as E07.
1920 UTC, 14647 kHz, very weak, just able – and only just – to hear, "164 164 164 000".

Saturday + Sunday SSB Schedule, 0600 UTC Start:-

7-July-18, Saturday:- 0600 UTC, 9064 kHz, "024 024 024 1" for a full message, DK/GC "835 89" x 2, strong signal.
0620 UTC, 10264 kHz, second sending, S7 to S8.
0640 UTC, 11464 kHz, also around S7 to S8.

8-July-18, Sunday:- 0600 UTC, 9064 kHz, "024" and "835 89" again, S6 at best.
0620 UTC, 10264 kHz, also S6.
0640 UTC, 11464 kHz, the strongest of the three this morning, peaking S9.

14-July-18, Saturday:- 0600 UTC, 9064 kHz, "024 024 024 1", DK/GC "401 61" x 2, weak signal, occasionally up to S6 or so.
0620 UTC, 10264 kHz, stronger, up to S8.
0640 UTC, 11464 kHz, strong signal.

15-July-18, Sunday:- 0600 UTC, 9064 kHz, "024" and "401 61" again, weak signal.
0620 UTC, 10264 kHz, S7 to S8.
0640 UTC, 11464 kHz, strongest sending of the three, around S9.

21-July-18, Saturday:- 0600 UTC, 9064 kHz, "024" and "401 61" again.
0620 UTC, 10264 kHz and 0640 UTC, 11464 kHz, all three transmissions around S4 to S5 this morning.

28-July-18, Saturday:- 0600 UTC, 9064 kHz, "024" and "401 61" yet again.
0620 UTC, 10264 kHz, and 0640 UTC, 11464 kHz, all three transmissions around S7 to S8.

29-July-18, Sunday:- 0600 UTC, 9064 kHz, "024" and "401 61" continues.
0620 UTC, 10264 kHz, and 0640 UTC, 11464 kHz, the repeats.

5-Aug-18, Sunday:- 0600 UTC, 9064 kHz, "024" and "401 61" continues in August.
0620 UTC, 10264 kHz, second sending largely unreadable due to S9+ "XJT" on the same frequency, has been noted in the past.
0640 UTC, 11464 kHz, third sending peaking S9.

11-Aug-18, Saturday:- 0620 UTC, 10264 kHz, missed the 0600z sending, still "024" and "401 61", unusually strong signal, over S9 and no "XJT".
0640 UTC, 11464 kHz, also over S9.

18-Aug-18, Saturday:- 0600 UTC, 9064 kHz, still "401 61", weak signal.
0620 UTC, 10264 kHz, S7 to S8, and 0640 UTC, 11464 kHz, peaking S9, repeats.

Thursday Schedule, 2010 UTC Start:-

This is the only E07 schedule left using amplitude modulation with a carrier and both upper and lower side-bands – in the UK evening time, at least.

5-July-18:- 2010 UTC, 11539 kHz, "553 553 553 000", strong signal with good audio.
2030 UTC, 10547 kHz, second sending, weaker.

12-July-18:- 2010 UTC, 11539 kHz, "553 553 553 1" for a full message, DK/GC "3308 43" x 2, S9 with good audio.
2030 UTC, 10547kHz, and 2050 UTC, 9388 kHz, the repeats, both strong with good audio.

19-July-18:- 2010 UTC, 11539 kHz, and 2030 UTC, 10547 kHz, both indicating around S6 to S7, "553 553 553 000".

26-July-18:- 2010 UTC, 11539 kHz, "553 553 553 1", DK/GC "6766 77" x 2, peaking S9 with good audio.
2030 UTC, 10547 kHz, and 2050 UTC, 9388 kHz, the repeats, both strong signals with good audio.

2-Aug-18:- 2010 UTC, 10753 kHz, "716 716 716 1", DK/GC "367 31" x 2, a relatively
short message as these things go, total transmission time of about 5 minutes 40 seconds.
Over S9 with good audio.
2030 UTC, 9147 kHz, second sending, good signal.
2050 UTC, 7637 kHz, third sending, peaking over S9.

9-Aug-19:- 2010 UTC, 10753 kHz, and 2030 UTC, 9147 kHz, both strong signals with very good audio, "716 716 716 000".

23-Aug-18:- no sign of this schedule this evening, missed the 2010z sending, lay in wait for the 2030 on 9147 – but nothing heard; if it was there it must have been a very weak signal way down in the local noise QRM.

Others' Logs

Sunday/Wednesday

July 2018

1700z	**12223kHz**	**1720z**	**11023kHz**	**1740z**	**10123kHz**	
01/07	201 000					
04/07	201 1 220 93 58460 ... 96829 000 000				[1700z Very strong]	Fair
08/07	201 1 220 93 58460 ... 96829 000 000				[1700/1720z Unworkable]	Weak
11/07	201 000					Fair
15/07	201 000					Fair
18/07	201 000					Fair
22/07	201 000					Strong
25/07	201 1 7504 81 02549 … 08943 000 000					Fair
29/07	201 1 7504 81 02549 ... 08943 000 000					Strong

August 2018

1700z	**13397kHz**	**1720z**	**12197kHz**	**1740z**	**10697kHz**	
01/08	316 000					No sig strength
05/08	316 1 7504 81 02549 ... 08943 000 000					Fair
08/08	316 1 7504 81 02549 ... 08943 000 000					Fair
12/08	316 1 170 131 95200 ... 40432 000 000					Weak
15/08	316 1 170 131 95200 ... 40432 000 000					Fair
19/08	316 1 369 134 24596 ... 96726 000 000					Weak

316 1 369 134
24596 03488 11880 01453 81073 88961 11284 70238 11765 85526
66062 77919 54501 92516 74023 52611 04695 70996 99171 31490
10140 87009 17987 05681 32296 32841 39690 58070 13836 12742
59530 05763 63021 13693 86642 51414 77272 14673 14268 90117
21773 95848 14503 23961 57727 77642 30375 29623 05702 76722
94496 72976 34840 37931 12210 87152 79076 13012 10412 92185
38069 90183 33976 66372 03300 14969 28007 48632 98921 14171
80247 78447 19057 69018 83001 65576 79988 79334 58196 70068
80132 58187 42482 14254 88281 29845 65445 04031 03015 76902
94415 77113 79864 05364 37644 13144 14629 45667 68284 25710
32727 91841 40020 51564 23081 47290 80171 65519 62697 83460
79651 84412 23346 97863 69834 53580 63456 22012 82739 67849
45831 71772 48964 41968 90545 62290 29699 73787 11485 37849
43390 85162 42276 96726 000 000 *Courtesy Ary*

22/08	316 1 369 134 24956 ... 96726 000 000				[1720z very strong]	Weak, noisy
26/08	316 1 369 134 24596 ... 96726 000 000				[1700z NRH, 1720z Unworkable]	Weak (DutchSDR)
29/08	316 1 369 134 24596 - 96726 000 000				[1740z Weak, QRM3]	Very strong

Sunday/Saturday

July 2018

0600z	**9064kHz**	**0620z**	**10264kHz**	**0640z**	**11464kHz**	
01/07	024 000					Weak
07/07	024 1 835 89 77170 ... 68963 000 000					Weak
08/07	024 1 835 89 rest unworkable					
14/07	024 1 401 61 36201 ... 08424 000 000				[0600/0620z Unworkable]	Weak
15/07	024 1 401 61 36201 ... 08424 000 000					Weak
21/07	024 1 401 61 36201 ... 08424 000 000					Weak
22/07	024 1 401 61 36201 ... 08424 000 000				[0620z Weak]	Fair
28/07	024 1 401 61 36201 ... 08424 000 000					Fair
29/07	024 1 401 61 36201 ... 08424 000 000					Fair

August 2018

04/08	024 1 401 61 36201 ... 08424 000 000		Weak, QSB3
05/08	024 1 401 61 36201 ... 08424 000 000	[0620z XJTQRM5]	Fair
11/08	024 1 401 61 36201 ... 08424 000 000		Strong
12/08	024 1 401 61 36201 ... 08424 000 000	[0640z Fair]	Weak, noisy
18/08	024 1 401 61 36201 ... 08424 000 000	[0600z Weak]	Strong
19/08	024 1 401 61 36201 ... 08424 000 000		Very strong
25/08	024 1 401 61 36201 ... .8424 000 000	Strong	

024 1 401 61
36201 09304 35321 81950 11119
83814 15951 95377 79150 45388
09415 26728 96133 96314 56386
56919 24103 43677 64569 65552
26121 88712 65522 35089 83839
46288 79412 83270 19491 07333
00816 79929 95668 72592 53578
15318 14428 03562 49127 70058
90453 30599 66130 16660 93255
03562 55544 40385 23803 11184
79316 37695 93420 25138 87283
64427 03370 66765 65947 97944
08424 000 000
Courtesy PLdn

26/08	024 1 401 61 36201 ... 08424 000 000		Weak

Monday/Wednesday

July 2018

1900z 16263kHz 1920z 14763kHz 1940z 13363kHz

04/07	273 000		Very strong
09/07	273 000	[1900z Unworkable]	Weak in Argentine, Strong UK
11/07	273 000	[1900z NRH]	Weak
16/07	273 1 523 61 89217 ... 56323 000 000	[1900z Weak]	Fair

273 1 523 61
89217 93231 95886 95226 61374
85670 98437 32213 34459 66685
40019 03167 19984 93406 66919
92124 37992 70069 65056 67746
03177 65548 01902 98434 56711
32439 90683 13759 01387 27522
73992 28146 67605 67740 24297
56425 49972 80067 15447 86993
12271 64112 68502 42531 73578
39638 93687 85128 09740 58781
76317 03044 31524 66888 23916
20338 94879 68228 09237 76622
56323 000 000 *Courtesy PLdn*

18/07	273 1 523 61 89217 ... 56323 000 000	[1920z Short break in tx]	Very strong
23/07	273 1 523 61 89217 ... 56323 000 000		Weak in Argentine, Strong UK
25/07	273 1 523 61 89217 ... 56323 000 000	[1900z Weak]	Strong
30/07	273 1 523 61 89217 ... 56323 000 000	[1900z NRH, heard Twente]	Fair

[Rises in signal strength : 1920z at 6m00, 1940z 4m40s into sending

August 2018

1900z 16147kHz 1920z 14647kHz 1940z 13447kHz

01/08	164 1 523 61 89217 ... 56323 000 000		Fair
06/08	164 1 523 61 89217 ... 56323 000 000		Very strong
08/08	164 1 523 61 89217 ... 56323 000 000	[1900z Strong]	Fair
13/08	164 1 523 61 89217 ... 56323 000 000	[1900z Fair]	Very strong
15/08	164 1 523 61 89217 ... 56323 000 000	[1900z Weak]	Very strong
20/08	164 1 523 61 89217 ... 56323 000 000	[Weak in Argentine too]	Weak
22/08	164 1 523 61 89217 ... 56323 000 000	[1900z Weak]	Very strong
29/08	164 000		Weak(Dutch SDR)

Tuesday/Friday

July 2018

0700z	**15962kHz**	**0720z**	**17462kHz**	**0740z**	**18542kHz**	
10/07	945 1 2378 153 66377 ... 20399 000 000					

945 1 2378 153
66377 17190 76955 55091 00314 84859 28243 00641 06412 11360
62098 03561 15763 55745 23562 07745 34608 20539 78136 09401
59083 21178 06124 90510 76166 45206 77561 87608 77932 81994
29380 67775 22147 56461 17531 12491 14498 07750 81964 72542
69862 46090 88073 76866 58912 97105 84128 68124 17259 36999
23453 07865 78426 67944 03620 99527 10774 65005 35591 27631
55111 05806 70760 53682 34509 84244 41325 07034 20996 30291
61043 69530 87634 93944 79612 64271 17283 92233 61972 33078
36353 17646 67111 68068 76822 71854 56403 94524 38797 58145
23685 29257 51843 14122 48348 14281 92744 03649 73793 62469
72725 53924 23459 89639 87269 46612 99462 96335 71697 64702
00724 97788 23173 24639 06421 18014 37247 77299 72221 29445
29880 77325 27987 90445 35669 27701 69460 27271 79626 85771
31612 08515 16276 83686 70535 01071 63053 87222 43467 93852
20876 24266 57271 37638 03901 80542 00361 72982 82755 57622
86278 82895 20399 000 000 *Courtesy Ary*

20/07	945 000		Weak
24/07	945 1 161 131 45768 ... 73194 000 000		Weak
27/07	945 1 161 131 45768 ... 73194 000 000	[0740z NRH]	Weak
31/07	945 000		Weak

August 2018

0700z	**16246kHz**	**0720z**	**18446kHz**	**0740z**	**19246kHz**	
07/08	242 1 439 61 76226 … 68706 000 000					Weak (Dutch SDR)
10/08	242 1 439 61 76226 … 68706 000 000					Weak (Dutch SDR)
14/08	NRH					
17/08	242 000					Weak(Dutch SDR)
21/08	242 1 343 73 26098 ... 53301 000 000					Weak (Dutch SDR)
24/08	242 1 343 73 26098 ... 53301 000 000					Weak
28/08	242 000					Weak(0720z DutchSDR)
31/08	NRH					

Tuesday/Friday

July 2018

1100z	**19252kHz**	**1120z**	**17242kHz**	**1140z**	**16252kHz**	
13/07	242 1 274 105					
17/07	242 000				[DutchSDR]	Weak
20/07	242 000					Weak (Dutch SDR)
24/07	242 1 4631 139 41427 ... 33962 000 000					Weak
27/07	242 1 4631 139 41427 …33962 000 000				[1100z NRH]	Weak
31/07	242 000				[1100z NRH]	Weak

August 2018

1100z	**20146kHz**	**1120z**	**18246kHz**	**1140z**	**16346kHz**	
03/08	123 000					Weak
07/08	123 1 2340 49 05983 … 11868 000 000				[1100z NRH]	Weak

123 1 2340 49
05983 37183 69895 60752 90235 03145 85278 51224 55818 75318
51981 93619 90328 91141 49639 24565 34147 98985 08893 32347
91136 77461 07072 25116 11213 17501 13890 98826 38461 91249
59453 97136 14916 25372 52076 37827 54278 43084 56807 34543
35716 78568 98757 67680 13736 42658 33631 59263 11868
000 000 *Courtesy AB*

10/08	123 1 2340 49 05983 … 11868 000 000	[1100z NRH]	Weak, QSB3
14/08	123 000		
17/08	123 000		Weak(Dutch SDR)
21/08	NRH		
24/08	123 1 9339 73 57832 ... 24451 000 000	[1140z weak]	Fair
28/08	123 000		Weak(DutchSDR)
31/08	NRH		

Thursday

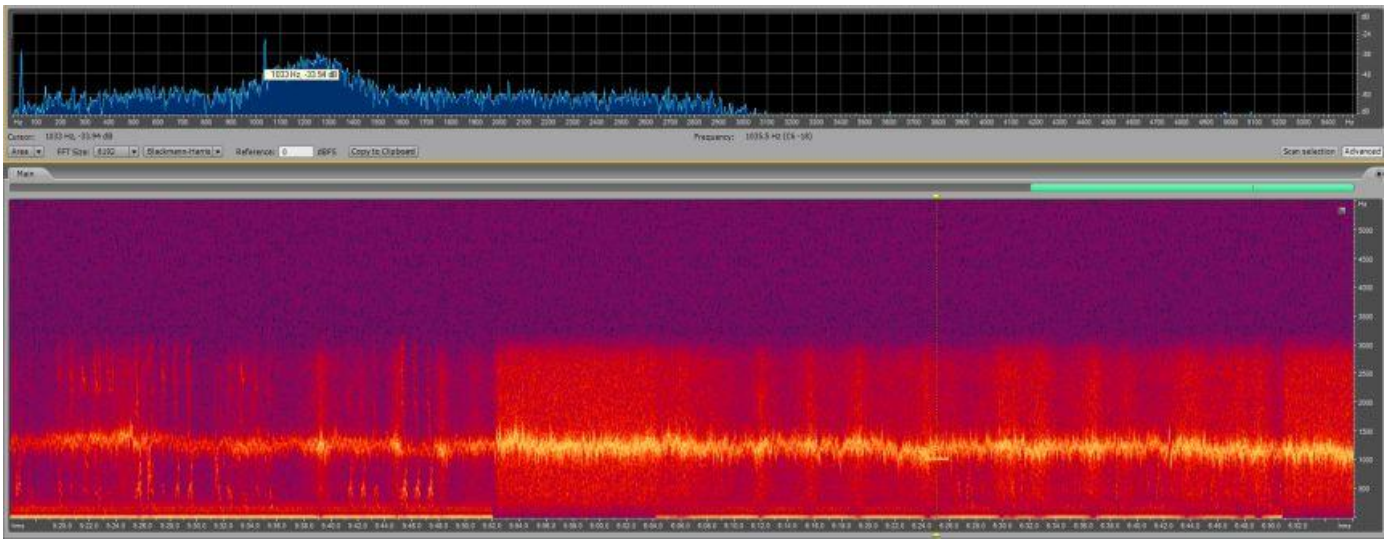
July 2018

2010z	**11539kHz**	**2030z**	**10547kHz**	**2050z**	**9388kHz**	
05/07	553 000			[2030z QRM2]		Strong
12/07	553 1 3308 43 96670 ... 07113 000 000					Very strong
19/07	553 000					Weak
26/07	553 1 6766 77 88536 …52727 000 000					Weak

August 2018

2010z	**10753kHz**	**2030z**	**9147kHz**	**2050z**	**7637kHz**	
02/08	716 1 367 31 05583 ... 58209 000 000			[See diagram below and description]		Fair

716 1 367 31
05583 73742 50370 79254 31258
24971 48152 27819 65841 51509
07107 25537 55868 36202 43116
22459 14760 78668 33517 13986
53374 50770 32098 05336 60058
03123 36307 57749 76233 01600
58209
000 000 *Courtesy PLdn/Ary*



The entire transmission of 02/08 lasted ~5m48s. On the 2130z sending 12s after the carrier was removed another carrier appeared during which a 1035Hz test tone, lasting 1.53s was sent 20s after second carrier raised. This test tone was followed by 716 716 716 1 716 716 716 until the carrier was dropped 47s after it started. [Second carrier, also of fair strength].

09/08	716 000		Strong.
16/08	716 1 9511 53 00248 ... 42096 000 000		Fair

316 9511 53
00248 98363 86303 33996 10548
39386 57866 37369 33951 96611
44075 99017 28729 32836 36697
90480 56896 30026 89701 19685
11694 85108 92780 83346 28882
82941 45037 09517 32701 27211
92537 16352 61275 98343 24936
20400 22198 36798 17098 47598
53984 87646 13934 79725 97137
24111 76608 34776 29577 49465
77223 13946 42096 000 000
Courtesy PLdn

23/08 NRH

30/08 NRH

E07a

PoSW's Logs to start, then others' Logs with some duplication

Saturday Schedule, 0800 UTC Start:-

7-July-18:- 0800 UTC, 12173 kHz, something a bit rare for this schedule this morning, a "full message"; "198 198 198 1 64249", DK/GC "382 61" x 2. This message had had also appeared on the last Saturday in June, the 30th, and was possibly the first such transmission for some time, the last "full message" appears to have been sent on 25-September – 2016, making the usual statement that not every single sending has been monitored in the intervening months- but the vast majority have,
0820 UTC, 13973 kHz, second sending.
0840 UTC, 14873 kHz, third sending, good signals on all three transmissions.

14-July-18:- 0800 UTC, 12173 kHz, "198 198 198 000", so back in the old routine this morning.

21-July-18:- 0820 UTC, 13973 kHz, missed the 0800z sending, "198 198 198 000".

28-July-18:- 0800 UTC, 12173 kHz, and 0820 UTC, 13973 kHz, "198 198 198 000".

4-Aug-18:- 0800 UTC, 12177 kHz, "148 148 148 000", only just readable under a strong "XJT" churning away on the same frequency.
0820 UTC, 13477 kHz, second sending, slight interference from a rapidly swept carrier.

11-Aug-18:- 0800 UTC, 12177 kHz, "148 148 148 000", good signal and no sign of the "XJT".
0820 UTC, 13477 kHz, weaker.

18-Aug-18:- 0800 UTC, 12177 kHz, and 0820 UTC, 13477 kHz, "148 148 148 000".

Friday Schedule, 1510 UTC Start:-

6-July-18:- 1510 UTC, 12213 kHz, "241 241 241 1 64249", DK/GC "382 61" x 2, same as heard on the following day on the 0800z Saturday E07a schedule.
1530 UTC, 11413 kHz, second sending.
1550 UTC, 10113 kHz, third sending inside the 30 metre amateur band, fast CW on close frequency.

13-July-18:- 1510 UTC, 12213 kHz, "241 241 241 000", peaking S8 with QSB.
1530 UTC, 11413 kHz, weaker.

20-July-18:- 1510 UTC, 12213 kHz, and 1530 UTC, 11413 kHz, "241 241 241 000".

27-July-18:- 1510 UTC, 12213 kHz, "241 241 241 000", S7 to S8.
1530 UTC, 11413 kHz, weaker.

3-Aug-18:- 1510 UTC, 12213 kHz, and 1530 UTC, 11413 kHz, "241 241 241 000".

10-Aug-18:- 1510 UTC, 12213 kHz, and 1530 UTC, 11413 kHz, "241 241 241 000".

17-Aug-18:- 1510 UTC, 12212 kHz, and 1530 UTC, 11413 kHz, both indicating around S7,
"241 241 241 000".

24-Aug-18:- 1510 UTC, 12213 kHz, and 1530 UTC, 11413 kHz, "241 241 241 000" yet again.
Noted while tuning down to 11413 a very strong SSB signal on 11253, quickly identified as the military VOLMET station normally heard with a good signal on 5450; both running in parallel, no doubt is always on 11253 when on 5450 but most unusual for it to be this strong.

Wednesday Schedule, 2000 UTC Start:-

4-July-18:- 2000 UTC, 12166 kHz, "172 172 172 1 69198" for a "full message", DK/GC "230 67" x 2, very strong SSB signal.
2020 UTC, 10766 kHz, second sending, also very strong.
2040 UTC, 9266 kHz, third sending, very strong.

18-July-18:- 2000 UTC, 12166 kHz, "172 172 172 000".
2020 UTC, 10766 kHz, both S9+.

25-July-18:- 2000 UTC, 12166 kHz, "172 172 172 1 32016", "full message", DK/GC
"524 36" x 2, S9+.
2020 UTC, 10766 kHz, and 2040 UTC 9266 kHz, the repeats, both S9+.

1-Aug-18:- 2000 UTC, 12166 kHz, and 2020 UTC, 10766 kHz, both S9+, "172 172 172 000".

8-Aug-18:- 2000 UTC, 12166 kHz, and 2020 UTC, 10766 kHz, "172 172 172 000", both transmissions the usual very strong signals.

22-Aug-18:- 2000 UTC, 12166 kHz, and 2020 UTC, 10766 kHz, both very strong, "172 172 172 000".

Others' Logs

Wednesday

July 2018

2000z	**12166kHz**	**2020z**	**10766kHz**	**2040z**	**9266kHz**	
04/07	172 1 69198 230 67 46756 ... 82425 000 000					Very stron
11/07	172 000					Very strong
18/07	172 000					Very strong
25/07	172 1 32016 524 36 28634 … 06155 000 000					Very strong

August 2018

01/08	172 000					Very strong
08/08	172 000					Very strong
15/08	172 000					Strong
22/08	172 000					Very strong
29/08	172 000					Very strong

Thursday

July 2018

0430z	**7933kHz**	**0450z**	**9133kHz**	**0510z**	**10233kHz**		
05/07	912 1 69198 230 67 46756 ... 82425 000 000						Very strong
12/07	912 000						Very strong
19/07	912 000						Very strong
26/07	912 1 32016 524 36 28634 … 06155 000 000					[0430z Weak]	Very strong

August 2018

02/08	912 000						Very strong
09/08	912 000						Very strong
16/08	912 000					[0430z Weak]	Strong
23/08	912 000						Very strong
30/08	912 000						0430z Weak, noisy, 0450z Fair

Friday

July 2018

1510z	**12213kHz**	**1530z**	**11413kHz**	**1550z**	**10113kHz**	
13/07	241 000					Weak
20/07	241 000					Weak
27/07	241 000					Strong

August 2018

03/08	241 000					Weak
10/08	241 000					Weak
17/08	241 000					Weak, QSB3
24/08	241 000					Weak
31/08	241 000					Weak

Saturday

July 2018

0800z	**12173kHz**	**0820z**	**13973kHz**	**0840z**	**14873kHz**		
07/07	198 1 64249 25202 ... 46127 000 000						Weak
13/07	198 000					[0820z QSB3]	Fair
21/07	198 000						Weak
28/07	198 000						Weak

August 2018

0800z	**12177kHz**	**0820z**	**13477kHz**	**0840z**	**14877kHz**		
04/08	148 000						Weak
11/08	148 000						Weak
18/08	148 000						Weak, QSB2
25/08	148 000						Weak

Some peculiarities noted during this period. Many transmissions are omitting the phrase “Attention” which means you have to keep a close eye on the time for the beginning of the message (3mins 20 seconds).

There was also a double transmission on Sunday 26th at 1605z on 4783kHz. This leads me to consider whether there is more than one computer set up for these transmissions and one of them has been set up incorrectly without the “Attention” phrase?

E11 log July/August

4783kHz	1605z	03/07 [231/00]		RNGB	TUE
	1605z	10/07 [235/00]		RNGB	TUE
	1605z	15/07 [230/001 Out 1608z S2		Malc	SUN
	1605z	24/07 [237/00] Out 1608z S2		Malc	TUE
	1605z	05/08 [237/00] Out 1608z S2		Malc	SUN
	1605z	07/08 [230/00] Out 1608z S2		Malc, RNGB	TUE
	1605z	12/08 [236/00] Out 1608z S5		Malc	SUN
	1605z	14/08 [236/00] Out 1608z S2		Malc	TUE
	1605z	19/08 [231/00]		Ary	SUN
	1605z	19/08 [231/00] Out 1608z S7		Malc	SUN
5082kHz	0820z	09/07 [439/00] Weak		RNGB	MON
	0820z	12/07 [436/00]		RNGB	THU
	0820z	19/07 [431/00] Out 0823z S3		Malc, RNGB	THU
	0820z	23/07 [432/00] Out 0823z S3		Malc	MON
	0820z	26/07 [430/00] Out 0823z S2		Malc, RNGB	THU
	0820z	02/08 [439/00] Out 0823z S2		Malc, RNGB	THU
	0820z	13/08 [436/00] Out 0823z S2		Malc	MON
	0820z	16/08 [438/00] Out 0823z S5		Malc, RNGB	THU
	0820z	20/08 [430/00] Out 0823z S2		Malc	MON
	0820z	23/08 [434/00] Out 0823z S4	(Dutch SDR)	Malc	THU
	0820z	27/08 [438/00] Out 0823z S3	(Dutch SDR)	Malc	MON
	0820z	30/08 [431/00] Out 0823z S2	(Dutch SDR)	Malc	THU
6304kHz	0930z	04/07 [275/00]		RNGB	WED
	1205z	17/07 [465/00] Out 1208z S2		Malc	TUE
	0930z	19/07 [276/00] Out 0933z S3		Malc, RNGB	THU
	1205z	25/07 [466/001 Out 1208z S3	(Dutch SDR)	Malc	WED
	1205z	01/08 [460/00] Fair		RNGB	WED
	0930z	08/08 [278/00] Out 0933z S2		Malc	WED
	0930z	09/08 [271/00] Out 0933z S4	(Dutch SDR)	Malc	THU
	1205z	14/08 [463/00] Out 1208z S2		Malc, RNGB	TUE
	0930z	15/08 [278/00] Out 0933z S2		Malc	WED
	1205z	15/08 [464/00] Out 1208z S3	(Dutch SDR)	Malc	WED
	0930z	16/08 [270/00] Out 0933z S3	(Dutch SDR)	Malc	THU
	1205z	21/08 [460/00] Out 1208z S3	(Dutch SDR)	Malc	TUE
	0930z	22/08 [271/00] Out 0933z S2		Malc	WED
	1205z	22/08 [461/00] Out 1208z S2		Malc	WED

6480kHz	0710z	01/07 [498/00]		Ary	SUN
	0710z	07/07 [498/00] Good		RNGB	SAT
	0710z	15/07 [497/00] Out 0713z S2		Malc	SUN
	0710z	29/07 [497/00] Out 0713z S4		Malc, RNGB	SUN
	0710z	04/08 [497/00] Out 0713z S2		Malc	SAT
	0710z	05/08 [495/00] Out 0713z S2		Malc	SUN
	0710z	11/08 [497/00] Out 0713z S2		Malc	SAT
	0710z	18/08 [498/00] Out 0713z S2		Malc	SAT
	0710z	19/08 [490/00] Out 0713z S4	(Dutch SDR)	Malc	SUN
6849kHz	0700z	17/07 [576/00] Out 0703z S5		Malc	TUE
	0700z	20/07 [571/00] Out 0703z S2		Malc, RNGB	FRI
	0700z	27/07 [575/00] Out 0703z S2		Malc	FRI
	0700z	03/08 [577/00] Out 0703z S2		Malc	FRI
	0700z	14/08 [576/00] Out 0703z S3		Malc	TUE
	0700z	17/08 [575/00] Out 0703z S4		Malc	FRI
	0700z	24/08 [579/00] Out 0703z S2		Malc, RNGB	FRI
7439kHz	0900z	13/08 [533/00] Out 0903z S2		Malc	MON
	0900z	15/08 [534/00] Out 0903z S2		Malc ,RNGB	WED
	0900z	20/08 [533/00] Out 0903z S3		Malc, RNGB	MON
	0900z	22/08 [535/00] Out 0903z S2		Malc	WED
	0900z	27/08 [532/00] Out 0903z S2	(Dutch SDR)	Malc	MON
	0900z	29/08 [535/00] Out 0903z S2		Malc	WED
7600kHz	1900z	23/07 [644/00] Out 1903z S5		Malc	MON
	1900z	26/07 [643/00] Out 1902z S5		Malc	THU
	1900z	30/07 [646/00] Out 1903z S4		Malc	MON
	1900z	02/08 [641/00] Out 1900z S6		Malc	THU
	1900z	06/08 [647/00]		Thomas, Malc	MON
	1900z	09/08 [644/00]		Thomas	THU
	1900z	13/08 [643/001 Out 1903z S8		Malc	MON
	1900z	16/08 [649/00] Out 1903z S7		Malc	THU
	1900z	27/08 [643/00] Out 1903z S7		Malc	MON
	1900z	30/08 [641/00] Out 1903z S4		Malc	THU
7984kHz	1730z	21/07 [400/00] Out 1733z S6		Malc	SAT
	1730z	25/07 [404/00] Out 1733z S4		Malc	WED
	1730z	28/07 [405/00] Out 1733z S3		Malc	SAT
	1730z	01/08 [400/001 Out 733z S5		Malc	WED
	1730z	08/08 [404/00] Out 1733z S3		Malc	WED
	1730z	11/08 [408/00] Out1733z S3		Malc	SAT
	1730z	22/08 [408/00] Out 1733z S6		Malc	WED
	1730z	25/08 [408/00] Out 1733z S6		Malc	SAT
8088kHz	1730z	05/07 [411/00] Out 1733z S9	(Dutch SDR)	Malc	THU
	1730z	26/07 [418/00] Out 1733z S4		Malc	THU
	1730z	02/08 [413/00] Out 1733z S2		Malc	THU
	1730z	30/08 [413/00] Out 1733z S4		Malc	THU
8545kHz	1045z	23/07 [697/00] Out 1048z S3	(Dutch SDR)	Malc	MON
	1045z	25/07 [692/00] Out 1048z S2		Malc	WED
	1045z	01/08 [690/00] Out 1048z S2		Malc	WED
	1045z	06/08 [692/00] Out 1048z S5	(Dutch SDR)	Malc	MON
	1045z	08/08 [692/00] Out 1048z S2		Malc	WED
	1045z	13/08 [697/00] Out 1048z S2		Malc	MON
	1045z	20/08 [696/00] Out 1048z S4	(Dutch SDR)	Malc	MON
	1045z	22/08 [692/00] Out 1048z S2		Malc	WED
9079kHz	0805z	07/07 [311/00] Weak		RNGB	SAT
	0805z	21/07 [311/00] Out 0908z S4	(Dutch SDR)	Malc	SAT
	0805z	22/07 [313/00] Out 0808z S2		Malc	SUN
	0805z	29/07 [313/00] Out 0808z S4	(Dutch SDR)	Malc, RNGB	SUN
	0805z	04/08 [310/00] Out 0808z S3		Malc, RNGB	SAT
	0805z	05/08 [314/00] Out 0808z S2		Malc	SUN
	0805z	11/08 [310/00] Out 0808z S3		Malc	SAT
	0805z	12/08 [319/00] Out 0808z S6		Malc	SUN
	0805z	18/08 [314/00] Out 0808z S2		Malc, RNGB	SAT
	0805z	19/08 [311/00] Out 0808z S2		Malc	SUN

9130kHz	2005z	14/07 [367/00] Out 2008z S7	Malc	SAT
	2005z	15/07 [366/00] Out 2008z S4	Malc	SUN
	2005z	21/07 [367/00] Out 2008z S2	Malc, RNGB	SAT
	2005z	22/07 [365/00] Out 2008z S3	Malc	SUN
	2005z	28/07 [367/00] Out 2008z S5	Malc	SAT
	2005z	29/07 [367/00] Out 2008z S4	Malc	SUN
	2005z	05/08 [364/00] Out 2008z S6	Malc	SUN
	2005z	11/08 [364/00] Out 2008z S4	Malc	SAT
	2005z	12/08 [367/00] Out 2008z S9	Malc	SUN
	2005z	25/08 [368/00] Out 2008z S3	Malc	SAT
9610kHz	0745z	09/07 [266/00] Strong	RNGB	MON
	1910z	13/07 [612/00] Out 1913 S4 QRM [Dutch SDR)	Malc	FRI
	1910z	15/07 [616/00] Out 1913z S2	Malc	SUN
	0745z	16/07 [266/00] Out 0748z S2	Malc	MON
	1910z	20/07 [613/00] Out 1913z S3	Malc	FRI
	1910z	22/07 [617/00] Out 1913z S2	Malc	SUN
	0745z	23/07 [268/00] Out 0748z S3	Malc, RNGB	MON
	1910z	27/07 [611/00] Out 1913z S3	Malc	FRI
	1910z	29/07 [618/00] Out 1913z S4	Malc	SUN
	0745z	30/07 [260/00] Out 0748z S2	Malc	MON
	1910z	05/08 [611/00] Out 1913z S3	Malc, Thomas	SUN
	0745z	06/08 [262/00]	Ary	MON
	1910z	10/08 [613/00] Out 1913z S5	Malc	FRI
	0745z	13/08 [264/00] Out 0748z S4	Malc	MON
	0745z	20/08 [261/00] Out 0748z S2	Malc, RNGB	MON
	1910z	24/08 [613/00] Out 1913z S5	Malc	FRI
	1910z	26/08 [616/00] Out 191z S2 (Dutch SDR)	Malc	SUN
10356kHz	1530z	19/07 [260/00] Out 1533z S9	Malc	THU
	1530z	26/07 [262/00] Out 1533z S4	Malc	THU
	1530z	02/08 [261/00] Out 1533z S6	Malc	THU
	1530z	09/08 [267/001 Out 1533z S6	Malc	THU
	1530z	16/08 [269/00] Out 1533z S5	Malc	THU
	1530z	23/08 [267/00] Out 1533z S9	Malc	THU
10429kHz	0715z	03/07 [633/00]	RNGB	TUE
	0715z	06/07 [639/00]	RNGB	FRI
	0715z	10/07 [635/00] Fair	RNGB	TUE
	0715z	17/07 [635/00] Out 0718z S2	Malc, RNGB	TUE
	0715z	20/07 [634/00] Out 0718z S2	Malc. RNGB	FRI
	0715z	07/08 [639/00] Out 0718z S2 (Dutch SDR)	Malc, RNGB	TUE
	0715z	10/08 [635/00] Out 0718z S3	Malc, RNGB	FRI
	0715z	21/08 [639/00] Out 0718z S2	Malc, RNGB	TUE
	0715z	24/08 [639/00] Out 0718z S3	Malc	FRI
11581kHz	1925z	10/07 [551/00]	Gary H	TUE
	1925z	12/07 [553/00]	Gary H	THU
	1925z	17/07 [550/00] Out 1928z S4	Malc	TUE
	1300z	19/07 [583/00] Out 1303z S7	Malc, RNGB	THU
	1925z	19/07 [558/00] Weak	RNGB	THU
	1300z	21/07 [583/00] Out 1303z S4	Malc	SAT
	1925z	24/07 [558/00] Strong	RNGB	TUE
	1300z	26/07 [588/00] Out 1303z S5	Malc	THU
	1925z	26/07 [556/001 Out 928z S8	Malc	THU
	1300z	02/08 [581/00] Out 1303z S6	Malc	THU
	1925z	02/08 [552/00] Out 1928z S7	Malc	THU
	1300z	04/08 [585/00] Out 1303z S2	Malc	SAT
	1925z	07/08 [557/00] Out 1928z S5	Malc	TUE
	1925z	09/08 [558/00]	Thomas	THU
	1925z	14/08 [552/00] Out 1928z S6	Malc	TUE
	1925z	16/08 [557/00]	Gary H	THU
	1300z	16/08 [585/00] Out 1303z S5	Malc	THU
	1300z	18/08 [581/00] Out 1303z S3	Malc	SAT
	1925z	21/08 [551/00] Out 1028z S5	Malc	TUE
	1925z	23/08 [556/00] Out 1928z S5	Malc	THU
	1300z	25/08 [583/00] Out 1303z S3	Malc	SAT
12202kHz	0845z	05/07 [159/00] Good	RNGB	THU
	0845z	17/07 [154/00] Out 0848z S3	Malc	TUE
	0845z	19/07 [150/00] Out 0823z S6	Malc, RNGB	THU
	0845z	24/07 [155/00] Out 0848z S3	Malc	TUE

12202kHz	0845z	26/07 [155/00] Out 0848z S2	Malc	THU
	0845z	02/08 [152/00] Out 0848z S4	Malc, RNGB	THU
	0845z	07/08 [157/00] Out 0848z S7	Malc	TUE
	0845z	09/08 [150/00] Out 0848z S4	Malc	THU
	0845z	14/08 [154/00] Out 0848z S7	Malc	TUE
	0845z	16/08 [151/00]	RNGB	THU
	0845z	16/08 [151/00] Out 0848z S2	Malc	THU
	0845z	21/08 [156/00] Out 0848z S3	Malc	TUE
12397kHz	1000z	17/07 [305/00] Out 1003z S5	Malc	TUE
	1000z	20/07 [302/001 Out 1003z S5	Malc	FRI
	1000z	24/07 [309/00] Out 1003z S4	Malc	TUE
	1000z	27/07 [304/00] Out 1003z S6	Malc	FRI
	1000z	03/08 [308/00] Out 1003z S3	Malc	FRI
	1000z	07/08 [302/00]	RNGB	TUE
	1000z	10/08 [309/00] Out 1003z S5	Malc	FRI
	1000z	21/08 [302/00] Out 1003z S3	Malc, RNGB	TUE
	1000z	24/08 [300/00] Out 1003z S6	Malc	FRI
13424kHz	0645z	03/07 [510/00] Fair	RNGB	TUE
	0645z	05/07 [517/00]	RNGB	THU
	0645z	24/07 [512/00] Out 0648z S4	Malc	TUE
	0645z	26/07 [510/00] Out 0648z S3	Malc, RNGB	THU
	0645z	31/07 [517/00] Weak	RNGB	TUE
	0645z	02/08 [515/00] Out 0648z S3	Malc, RNGB	THU
	0645z	07/08 [511/00] Out 0648z S2	Malc, RNGB	TUE
	0645z	09/08 [514/00] Out 0648z S2	Malc	THU
	0645z	14/08 [518/00] Out 0648z S2	Malc	TUE
	0645z	16/08 [518/00] Out 0648z S3	Malc, RNGB	THU
	0645z	21/08 [511/00] Out 0648z S2	Malc, RNGB	TUE
	0645z	23/08 [519/00] Out 0648z S3	Malc	THU
13537kHz	1225z	16/07 [535/00] Out 1228z S2	Malc	MON
	1225z	20/07 [520/00] Out 1228z S4	Malc	FRI
	1225z	23/07 [525/00] Out 1228z S5	Malc	MON
	1225z	27/07 [524/00] Out 1228z S2	Malc	FRI
	1225z	03/08 [521/00] Out 1228z S3	Malc	FRI
	1225z	06/08 [525/00] Out 1228z S4	Malc	MON
	1225z	10/08 [524/00] Out 228z S3	Malc	FRI
	1225z	13/08 [524/00] Out 1228z S6	Malc	MON
	1225z	17/08 [528/00] Out 1228z S2	Malc	FRI
	1225z	20/08 [524/00] Out 1228z S5	Malc	MON
	1225z	24/08 [528/00] Out 1228z S2	Malc, RNGB	FRI
13873kHz	0600z	09/07 [185/00] Good	RNGB	MON
	0600z	13/07 [182/00]	Ary	FRI
	0600z	30/07 [184/00] Out 0603z S8	Malc, RNGB	MON
	0600z	13/08 [185/00] Out 0603z S3	Malc	MON
	0600z	27/08 [182/00] Fair	RNGB	MON
	0600z	31/08 [180/00] Weak	RNGB	FRI
14410kHz	1745z	15/07 [240/00] Out 1748z S5	Malc	SUN
	1745z	16/07 [240/00] Out 1748z S5	Malc	MON
	1745z	22/07 [249/00]	Ary	SUN
	1745z	13/08 [249/00] Out 1748z S2	Malc	MON
	1745z	19/08 [245/00] Out 1745z S4	Malc	SUN
	1745z	20/08 [249/00] Out 1748z S2	Malc	MON
14575kHz	1645z	05/07 [335/00] Out 1648z S9 (Dutch SDR)	Malc	THU
	1645z	17/07 [331/00] Out 1648z S2	Malc	TUE
	1645z	19/07 [333/00] Out 1648z S2	Malc	THU
	1645z	02/08 [338/00] Out 1648z S2	Malc	THU
	1645z	07/08 [338/00] Out 1928z S3	Malc	TUE
	1645z	21/08 [335/00] Out 1648z S2	Malc	TUE
	1645z	23/08 [334/00] Out 1648z S5	Malc	THU
14865kHz	1700z	21/07 [399/00] Out 1703z S9	Malc	SAT
	1705z	01/08 [395/001 Out 1708z S2	Malc	WED
	1705z	15/08 [399/00] Out 1708z S2	Malc	WED
	1705z	18/08 [393/00] Out 1708z S9	Malc	SAT
	1705z	22/08 [391/00] Out 1708z S2	Malc	WED

14940kHz	1650z	15/07 [925/00] Out 1653z S5		Malc	SUN
	1650z	29/07 [922/00] Out 1653z S5		Malc	SUN
	1650z	05/08 [925/00] Out 1653z S3		Malc	SUN
	1650z	10/08 [929/00] Out 1653z S2		Malc, RNGB	FRI
	1650z	12/08 [929/00] Out 1653z S2		Malc	SUN
	1650z	17/08 [925/00] Out 653z S2		Malc	FRI
	1650z	19/08 [922/00]		Daniel, Ary, Malc	SUN
15720kHz	0745z	18/07 [344/00] Fair		RNGB	WED
	0745z	20/07 [346/00] Out 0748z S4		Malc	FRI
	0745z	25/07 [344/00] Good		RNGB	WED
	0745z	01/08 [342/00] Out 0748z S2		Malc, RNGB	WED
	0745z	03/08 [348/00] Out 0748z S2		Malc	FRI
	0745z	08/08 [344/00] Out 0748z S4		Malc	WED
	0745z	10/08 [344/00] Out 0748z S3		Malc	FRI
	0745z	17/08 [347/00] Out 0748z S2		Malc	FRI
	0745z	22/08 [344/00] Out 0748z S2		Malc	WED
	0745z	24/08 [344/00] Out 0748z S5		Malc	FRI
	0745z	29/08 [340/00] Out 0748z S2		Malc	WED
15795kHz	1625z	15/07 [977/00] Out 1628z S3		Malc	SUN
	1625z	22/07 [972/00] Out 1628z S4		Malc	SUN
	1625z	29/07 [970/00] Out 1628z S2		Malc	SUN
	1625z	01/08 [974/00] Out 1628z S2		Malc	WED
	1625z	05/08 [970/00] Out 1628z S2		Malc	SUN
	1625z	15/08 [977/00] Out 1628z S3		Malc	WED
	1625z	19/08 [970/00] Out 1628z S2		Malc, RNGB	SUN
	1625z	22/08 [978/00] Out 1628z S2	(Dutch SDR)	Malc	WED
15800kHz	0640z	02/07 [948/00] Good		RNGB	MON
	0640z	09/07 [942/00] Good		RNGB	MON
	0640z	11/07 [949/00] Good		RNGB	WED
	0640z	16/07 [941/00] Out 0643z S5		Malc	MON
	0640z	30/07 [940/00] Out 0648z S3		Malc	MON
	0640z	01/08 [940/00] Out 0643z S2		Malc, RNGB	WED
	0640z	06/08 [942/00]		Ary	MON
	0640z	08/08 [949/00] Out 0643z S2		Malc, RNGB	WED
	0640z	20/08 [944/00] Out 0643z S2	(Dutch SDR)	Malc	MON
	0640z	22/08 [941/00] Out 0643z S3		Malc	WED
	0640z	27/08 [941/00] Out 0643z S5		Malc	MON
	0640z	29/08 [946/00] Out 0648z S2	(Dutch SDR)	Malc, RNGB	WED
15825kHz	1345z	24/07 [919/00] Out 1348z S2		Malc	TUE
	1345z	04/08 [917/00] Out 1348z S2		Malc	SAT
	1345z	11/08 [911/00] Out 1348z S2		Malc	SAT
	1345z	18/08 [912/00] Out 1348z S3		Malc	SAT
17378kHz	0820z	04/07 [133/00]		RNGB	WED
	0820z	01/08 [134/00] Out 0823z S2		Malc, RNGB	WED
	0820z	07/08 [132/00] Out 0823z S2		Malc, RNGB	TUE
	0820z	21/08 [131/000 Out 0823z S2		Malc	TUE
	0820z	22/08 [135/00] Out 0823z S2		Malc	WED
	0820z	29/08 [131/00] Out 0823z S2		Malc	WED

E11a log July/August

4783kHz	1605z	22/07 [237/32 35027 04520 29852 37420……89418] Out 1614z S4 (Dutch SDR)	Malc	SUN
	1605z	21/08 [230/37 40577 10638 75465 64900 25972……90438] Out 1616z S2	Malc	TUE
	1605z	26/08 [233/00] PLUS [230/37 40577…..etc] TWO simultaneous transmissions	RNGB, Malc	SUN
5082kHz	0820z	02/07 [439/34 18509 03706 40774 39916 18642 14089 63167 94344 26963……76681 70363]	RNGB	TUE
	0820z	06/08 [434/34 03713 24983 13741 00722 92102 95458 50154 06257 84250……37662 18482]	RNGB	MON
	0820z	09/08 [429/34 03713……..18482] Out 0823z S3 (Dutch SDR)	Malc	THU
6304kHz	0930z	25/07 [271/36 90197 74676 27738 73214 78007 70755 89557 43512……42027 51139]	Ary	WED
	0930z	01/08 [271/32 90162 83623 37623 37595 92666……82833] Out 0940z S4 (Dutch SDR)	Malc	WED
	0930z	02/08 [271/32 90162……etc] Repeat of Wednesday	Malc	THU
	1205z	07/08 [466/31 86754 43174 47104 79453 02039 80903 51632……13978 46058]	Ary	TUE
	1205z	08/08 [466/31 86754……etc] Repeat of Tuesday	Malc	WED

6480kHz	0710z	21/07 [496/32 25391 67999 60114 38345 31375 50114 05610 10780……89369 38703]	Ary	SAT
	0710z	22/07 [496/32 25391…..etc] Repeat of Saturday	RNGB	SUN
	0710z	25/08 [496/35 86980 06077 32010 42125 71591 75721 06592……58510 55360] 'No Attention'	Ary	SAT
6849kHz	0700z	03/07 [574/35 67599 97425 17576 66151 45209 01725 22508 97491……84412 08527] Good	RNGB	TUE
	0700z	06/07 [574/35 67599……etc] Repeat of Tuesday	RNGB	FRI
	0700z	07/08 [573/34 87802 65030 53807 03710 99738 12396 99603……73901 93713] Out 0710z S3	RNGB, Malc	TUE
	0700z	10/08 [573/34 87802 65030 53807 03710 99738…….93713] Out 0710z S4	Malc	FRI
7439kHz	0900z	08/08 [534/34 36766 87878 30521 89526 75686 29542 34670 44053……77942 29735]	Andre	WED
7469kHz	0450z	06/08 [416/36 30873 10248 50518 58293 43534 63179 87246 65559……37392 34300]	Ary	MON
7600kHz	1900z	16/07 [646/38 96867 88677 56181 66960 61676……04411] Out 1911z S3 (No Attention)	Malc	MON
	1900z	20/08 [649/31 12211 78725 58051 82479 70605……60430] Out 1909z S5	Malc	MON
	1900z	23/08 [649/31 ……etc] Repeat of Monday	Malc	FRI
7984kHz	1730z	14/07 [403/39 65212 61400 93281 86364….etc] Out 1741z S8 (No Attention) !	Malc	SAT
	1730z	18/08 [405/40 86053 56126 12950 10498 09630……..75922] Out 1741z S3	Malc	SAT
8088kHz	1730z	19/07 [414/33 34989 72090 68208 04330 68560……19619] Out 1740z S3	Malc	THU
	1730z	09/08 [416/36 30873 10248 50518 58293 43534……34300] Out 1740z S3	Malc	THU
8545kHz	1045z	16/07 [693/30 14470 76937 02808 55128 08067……..06989] Out 1054z S5	Malc	MON
	1045z	29/08 [696/22 74047……..54572] Out 1052z S5 (Dutch SDR)	Malc	WED
9079kHz	0805z	14/07 [315/31 13111 81501 55769 50046 58621 97464 02310……21735 94533] 'No Attention'	RNGB	SAT
	0805z	15/07 [315/31 13111 81501 55769 50046 58621….. 94533] Out 0814z S7	Malc	SUN
	0805z	25/08 [310/35 44563 00505 29108 18142 66466 65558 36986……98993 58265] ' No Attention'	Ary	SAT
9130kHz	2005z	07/07 [363/39 42798 39917 77116 15652 98151 92983 43493 25032……32353 85301] Good	RNGB	SAT
	2005z	18/08 [360/31 30644 72392 27835 84480 97350…….06616] Out 2014z S5	Malc	SAT
	2005z	19/08 [360/31 30644……etc] Repeat of Saturday	Malc	SUN
9610kHz	0745z	02/07 [264/39 06075 03707 01747 32528 94161 08091 89077 87860……02959 23694] Good	RNGB	MON
	1910z	06/07 [61?/32 14623 04978 02717 22474 52251 43953 77787……04961 86005]	RNGB	FRI
	1910z	17/08 [612/39 98472 27751 79680 23696 77158……..73754] Out 1920z S2	Malc	FRI
	1910z	19/08 [612/39 98472……etc] Repeat of Friday	Malc	SUN
	0745z	27/08 [269/37 02005 02083 18594 89156 78285……..15152] Out 0755z S3	Malc	MON
10356kHz	1530z	30/08 [269/37 02005 02083 18594 89156 78285 13285 45480 00375……38151 15152]	Gary H	THU
10429kHz	0715z	24/07 [639/37 45424 18060 55017 15874 77691……95060] Out 0725z S2	Malc	TUE
	0715z	27/07 [639/37 45424……etc] Repeat of Tuesday	Malc	FRI
	0715z	31/07 [63?/39 13402 21203 40821 72070 08808 71399 75709…… 86142 43516] No Attention!	Ary	TUE
	0715z	03/08 [632/49 13402 21203 40821 71070 08808……42516] Out 0727z S2	Malc	FRI
	0715z	14/08 [631/39 87553 27652 10516 55194 12415……] Out 0726z S2	Malc	TUE
	0715z	17/08 [631/39 87553…….66802] Out 0726z S4	Malc	FRI
11581kHz	1300z	09/08 [587/36 02230 74589 79959 28994 72523……19659] Out 1310z S6	Malc	THU
	1925z	30/08 [551/34 53784 72757 05223 35351 57125……59668] Out 1935z S2 (Dutch SDR)	Malc	THU
12202kHz	0845z	28/08 [154/24 02783 45527 36832 09266 30456 96073 63506 67906……02506 19900] Fair	RNGB	TUE
	0845z	30/08 [154/24 02783……..19900] Out 0852z S2	Malc	THU
12397kHz	1000z	14/08 [306/39 14926 73120 88078 52320 32217…….96563] Out 1011z S8	Malc	TUE
	1000z	17/08 [306/39 14926 ….etc] Repeat of Tuesday	Malc	FRI
13424kHz	0645z	17/07 [515/35 03715 43616 19070 55819 67466 82616 73112……93115] Out 0655z S3	Malc, RNGB	TUE
	0645z	19/07 [515/35 03715…etc] Repeat of Tuesday	Malc	THU
	0645z	28/08 [517/32 94756 54779 06306 63769 03071 00393 79017……93767]	RNGB	TUE
	0645z	30/08 [517/32 94756 54779 06306 63769 03071……93767] Out 0655z S2 (Dutch SDR)	Malc	THU
13873kHz	0600z	01/07 [184/29 01211 29509 90765 06477 19470…..28459 26761]	RNGB	MON
	0600z	06/08 [188/34 90947 10119 73690 34948 60630 09437 73596 01927……12911 58462]	RNGB	MON
14410kHz	1745z	23/07 [249/31 27840 37802 26692 16869 81166…….65740] Out 1754z S5 QRM	Malc	MON
	1745z	06/08 [242/34 91763 85658 10512 16485 78954…….91014] Out 1754z S3 QRM	Malc	MON
14575kHz	1645z	14/08 [330/36 87771 63190 74545 25251 60599……74323] Out 1655z S3 QSB1	Malc	TUE
12202kHz	1705z	25/07 [391/33 27747 17929 12465 77298 42994.....32763] Out 1715z S4	Malc	WED

12202kHz 1705z	28/07 [391/33 27747…..etc] Repeat of Wednesday	Malc	SAT
15720kHz 0745z	15/08 [343/40 73356 07613 44713 56321 38772 10507 54634……44944 20179] No Attention!	RNGB	WED
15800kHz 0640z	23/07 [942/29 57547 50208 70738 34029 89604 01380 53756……94427 69677] Out 0648z S2	RNGB, Malc	MON
0640z	25/07 [942/29 57547…….etc] Repeat of Monday	Malc	WED
0640z	13/08 [945/34 68538 70563 76670 12988 02204 73737 33831 65462……55825 12586]	RNGB	MON
15795kHz 1625z	08/08 [970/33 20796 67444 36783 11197 88593……65350] Out 1635z S2	Malc	WED
15825kHz 1345z	17/07 [910/36 38963 70751 30073 19062 97766……71350] Out 1355z S3 QSB2	Malc	TUE
1345z	21/07 [910/36 38963…..etc] Repeat of Tuesday	Malc	SAT
1345z	21/08 [918/39 61194 98267 68049 15012 58148……59097] Out 1356z S5	Malc	TUE
17378kHz 0820z	25/07 [138/37 26508 06954 40888 57791 38564 24418 66443……12426 05845]	Ary	WED
0820z	15/08 [132/37 45857 23620 34723 57117 44402 81958 33580……93532 43616]	Ary	WED

E17z

Thursday

July 2018

0800z	**16780kHz**	**0810z**	**12850kHz**		
05/07	674 829 5 46063 67672 97478 39686 30485 829 5 00000				Weak
12/07	674 829 5 46062 68672 97478 39685 30485 829 5 00000				Weak
19/07	674 802 5 32537 42983 35751 35375 57176 802 5 00000				Weak
26/07	674 802 5 32537 42982 25751 25275 57176 802 5 00000				Weak

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02/08	674 231 5 84523 60543 61461 84040 39493 231 5 00000		Weak
09/08	674 231 5 84523 60543 61462 84040 39493 231 5 00000		Weak
16/08	674 803 5 91458 83783 92688 45951 21471 803 5 00000	[0800z Unreadable]	Weak
30/08	674 000		Weak

G06

PoSW's analysis and results followed by others logs

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

12-July-18:- 6887 kHz:- as always, start up times purely nominal, was in warm-up mode when tuned in about a minute before the half-hour, calling "842", message, also as always,
drawn from a pool of several such entities which are used over and over again, in this case with a DK/GC of "273 273 62 62", starts with, "64537 27364 28374....", signal strength indicating around S8.

26-July-18, 6887 kHz:- call "842", DK/GC "149 149 52 52", started over two minutes before the half-hour, ended after 1840 UTC, computer shut-down sounds heard just before 1842.

9-Aug-18, 6887 kHz:- "842" and "273 273 62 62" again, early start, was in call mode when tuned in shortly after 1827 UTC. Computer "ding" sound heard at second speaking of 5F group no. 45, "90184", and again after the finishing routine.

23-Aug-18, 6887 kHz, "842" and "273 273 62 62", unusually good timekeeping for this schedule, started just a second or two before the half-hour.

Friday 1930 UTC Schedule Following Second + Fourth Thursdays:-

13-July-18, 5943 kHz:- call "218", DK/GC "273 273 62 62", same as heard yesterday, strong broadcast station on 5945 close enough to be a nuisance.

10-Aug-18, 5935 kHz, started late unusually, well after 1930z, "218" and "273 273 62 62" again.

24-Aug-18, 5943 kHz, "218" and "273 273 62 62", started just a few seconds before the half hour, suffering from the broadcaster on the HF side which came on air some time after 1920 UTC, until then the G06 carrier which had been warming up the frequency for some time was relatively interference free.

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

2-July-18, 5287 kHz:- again start time nominal, voice began at approx 1658:50s UTC, "938 938 938 00000", weak signal.
1758:45s UTC approx, 4935 kHz, second sending, also weak.

9-July-18, 1658:20s UTC, 5287 kHz, and 1758:20s UTC, 4935 kHz, "938 938 938 00000".

6-Aug-18, 5287 kHz:- "938 938 938 00000", had started when tuned in before 1658z.
4935 kHz, again an early start for the second sending, in progress when tuned in before 1757z.

Others' logs, with duplication

Monday

July 2018

0758z 7320kHz

16/07	329 00000	Weak

August 2018

06/08	329 00000 [Windows shutdown audio.Early start 0756z]	Weak
20/08	329 00000 [Started as 111 call, then switched off returned 329 etc]	Weak

1659z 5287kHz 1759z 4935kHz

09/07	938 00000 [Early start 1658z followed by 111 000 1704/1710z]	

August 2018

06/08	938 00000 [Early starts, 1657/1757z]	Weak

Wednesday

July 2018

1159z 6978kHz 1259z 7423kHz

04/07	938 00000	Fair

August 2018

08/08	938 00000 Started 1157z and 1257z	Weak

Thursday

August 2018

1830z 6887kHz

09/08	842 273 62 64537 ... 76491 273 62 00000	Weak, QRM
23/08	842 273 62 64537 ... 76491 273 62 00000	Fair

Friday

July 2018

1930z 5943kHz

27/07	218 289 54 12345 … 72492 289 54 00000	Weak,QRM. Difficult conditions

August 2018

1930z 5935kHz

10/08	218 273 62 64537 … 76491 273 62 00000	Fair
24/08	218 273 62 64537 ... 76091 273 62 00000	Fair

S06

S06 log July2018

Daily Mon- Fri 0400z 15721kHz No reports

Thursdays (Repeats following day) 0830z 15875kHz 0930z 13469kHz

12/07 '842' 670 38 43091 44131 71240 59216 00723 38790 18739 76234 25919 77688 39831 24752 34086 97894 95025 58166 21490 02095 79566 36765 84851 25337 00899 33771 45342 23746 65983 90709 19157 96144 33176 95526 01861 74532 08339 81899 58689 44336 670 38 00000

26/07 '842' 379 40 95268 60376 18827 01830 26568 03800 07206 83945 45786 40728 84214 70928 02999 41239 73746 23206 96114 08719 36945 53757 89376 16109 72193 85832 50705 36399 86300 41829 68838 72032 60315 46109 36179 12940 58408 67161 08318 77859 53258 38263 379 40 00000

Fridays (1st & 3rd) 2000z 9492khz 2100z 7528kHz (frequencies may vary slightly)

06/07 '483' 00000
20/07 '483' 00000

Saturdays (1st/3rd) 1900z 6773kHz 2000z 5773kHz (frequencies may vary slightly)

07/07 '263' 00000
21/07 '263' 00000

S06c - No reports

S06s July log:

Monday			
2nd/9th	0830/0840z	8221/9353	'371' 859 6 43785 67625 00555 24616 50591 07931
16th/23rd			'371' 928 5 58202 44206 29464 25472 02883
2nd/9th	0900/0910z	16380/14835	'872' 465 9 25861 33432 89219 32494 27142 32842 20002 98238 22044
16th/23rd			'872' 416 5 52725 74228 56551 44238 95628
2nd/9th	1200/1210z	10230/12165	'831' 956 7 43334 20147 20494 42014 81051 46544 24613
16th/23rd			'831' 594 6 88443 36772 98493 36340 32048 34338
Tuesday			
3rd/10th	0600/0610z	15945/16945	'438' 907 5 33699 39998 20667 25947 83964
17th/24th			'438' 921 5 38714 36997 80093 41915 30694
3rd/10th	0700/0715z	5430/6780	'374' 591 6 34242 83255 55945 60494 93543 8…..?
17th/24th			'374' 819 5 28548 59014 32424 75078 97520
3rd/10th	0730/0740z	7365/11655	'427' 901 5 12444 38625 89531 52814 95931
17th/24th			'427' 891 5 34242 83255 55945 60494 93543
3rd/10th	0800/0810z	14373/12397	'352' 980 6 24585 26572 84585 24454 58546 33183
17th/24th			'352' 917 6 59067 58855 48235 28333 37832 99792
3rd/10th	1000/1010z	4820/5660	'893' 540 6 37832 37313 45597 79532 44572 14494
17th/24th			'893' 276 5 33796 13577 74526 46647 79302
3rd/10th	1100/1110z	6810/7560	'754' 982 6 74228 56551 44999 47773 45555 54456
17th/24th			'754' 291 6 88620 58069 61732 74527 57440 10597
3rd/10th	1500/1510z	6766/7744	'537' 942 6 02883 25473 29464 44206 58202 75078
17th/24th			'537' 271 8 46062 68672 97478 39685 30485 96632 52537 53317
Wednesday			
4th/11th	0730/0740z	12110/14977	'745' 982 6 35861 33432 89319 32494 37142 32842
18th/25th			'745' 893 6 43613 47545 49598 08142 42214
4th/11th	0820/0830z	9485/11085	'471' 298 5 32842 30003 98328 33055 31123
18th/25th			'471' 562 8 84523 60543 61462 84040 39493 91458 83723 92688
4th/11th	0830/0840z	11565/12560	'464' No reports
18th/25th			'464' 815 7 98564 00214 55776 33826 09127 56470 74620
4th/11th	1000/1010z	14580/16020	'729' 835 6 76458 59421 21677 15542 26059 49385
18th/25th			'729' 846 5 64783 00912 76934 74914 32940
Thursday			
5th/12th (E17z)	0800/0810z	16780/12850	'674' 829 5 46062 68672 97478 39685 30485
19th/26th			'674' 802 5 32537 43983 35751 35375 57176
5th/12th	0930/0940z	9255/10325	'314' 928 5 21767 53672 11834 81022 36903
19th/26th			'314' 207 5 40639 33180 48007 37230 46446
5th/12th	1200/1210z	13145/14535	'425' 910 6 33796 13577 74526 46647 79302 53516
19th/26th			'425' 813 6 83030 32030 34403 34746 34053 37188
Friday			
6th/13th	0900/0910z	6844/7161	'624' 835 7 83512 00945 86687 32143 99875 77565 00998
20th/27th			'624' 930 5 38836 32244 34053 30738 56864
6th/13th	0930/0940z	10290/9655	'516' 872 9 67490 33567 55001 96483 78654 76578 96001 44338 22765
20th/27th			'516' 430 7 40048 43167 30343 84217 43043

Saturday

7th	0800/0810z	12460/10250	‘254’ 937 6 01405 15003 24357 60583 54545 50128

With thanks to Daniel, Gary H, RNGB, Malc, Ary

S06 log August 2018

Daily Mon- Fri 0400z 15721kHz No reports

Thursdays (Repeats following day) 0830z 16327kHz 0930z 13875kHz

02/08 ‘842’ 560 31 71670 21653 26488 21193 51962 40121 17836 42802 33481 60688 13551 25895 72233 74294 97889 14589 77932 50184 95474 98951 10770 13516 28068 42667 38444 24237 77708 42418 51873 49418 17120 560 31 00000

09/08 ‘842’ 917 38 49474 23229 44467 48153 54961 60398 17159 36767 78390 52294 15130 42803 08137 92133 36178 88827 99885 47576 39759 52950 23353 78079 52543 90370 38796 61195 18605 78079 89243 97463 42679 24881 19382 48622 99919 13946 57047 88786 917 38 00000

16/08 ‘842’ 365 42 62809 73726 45651 45496 38541 61353 30854 18103 90678 48338 01092 64892 97862 26506 83526 36897 66296 57111 10675 02913 46089 96343 66683 74666 25833 11949 89180 09815 16340 45648 00133 59955 59468 01050 64135 55855 22992 61731 97588 47068 67444 69189 365 42 00000

23/08 ‘842’ 107 44 67051 85803 54019 95509 70783 ?9979 43789 45379 57853 27768 62791 30029 76171 28341 79999 34958 31081 33432 54155 29227 19779 63175 31712 48982 17391 40249 36278 38420 50647 01996 48011 40489 20098 55234 96380 54468 56789 03419 14757 02643 24362 00863 30240 73237 107 44 00000

30/08 ‘842’ 695 30 02000 37770 55867 19254 09121 90223 15175 64949 03202 87766 34167 94340 12440 96057 39561 08078 50419 09663 12357 27060 76095 70696 74821 96084 55823 97721 28734 43857 07125 23345 695 30 00000

Fridays (1st & 3rd) 1900z 9492khz 2000z 7528kHz (frequencies may vary slightly)

17/08 ‘483’ 00000

Saturdays (1st/3rd) 1900z 6773kHz 2000z 5773kHz (frequencies may vary slightly)

04/08 ‘263’ 00000
18/08 ‘263’ 00000

S06c - No reports

S06s August log:

Monday

6th/13th	0630/0640z	16320/14875	‘524’ 807 6 84523 60534 61452 84040 39493 42214
20th/27th			‘524’ 839 6 43785 67625 55500 61642 91505 56656
6th/13th	0830/0840z	8221/9353	‘371’ 495 6 87655 75855 07443 51240 62424 54251
20th/27th			‘371’ 289 5 24686 26572 84686 25545 58546
6th/13th	0900/0910z	16380/14835	‘872’ 460 5 47461 36461 36956 35478 36583
20th/27th			‘872’ 934 5 69067 53355 48235 28222 37832
6th/13th	1200/1210z	10230/12165	‘831’ 425 6 90406 36113 31107 38897 37137 31405
20th/27th			‘831’ 279 5 34243 83255 55945 60494 93543

Tuesday

7th/14th	0600/0610z	15945/16945	‘438’ 295 6 93163 33231 31323 32680 85418 31896
21st/28th			‘438’ 296 5 28548 59014 32424 75078 97520
7th/14th	0700/0715z	5430/6780	‘374’ 950 6 65032 39366 87471 31487 30130 30905
21st/28th			‘374’ 592 6 43785 67625 55500 61642 91505 56656
7th/14th	0730/0740z	7365/11655	‘427’ 915 6 86513 64369 32793 29373 03663 68732
21st/28th			‘427’ 938 6 97520 26569 05518 71527 45251 05317
7th/14th	0800/0810z	14373/12397	‘352’ 467 8 07931 98755 84638 45752 64655 58202 44206 39464
21st/28th			‘352’ 910 6 34252 83255 55945 60494 93543 85422
7th/14th	1000/1010z	4820/5660	‘893’ 457 6 80585 53623 02507 34465 29833 44420
21st/28th			‘893’ 520 6 56174 37393 19514 45256 38204 65475
7th/14th	1100/1110z	6810/7560	‘754’ 831 6 35131 84430 39244 36850 39818 38792
21st/28th			‘754’ 891 6 – too weak to copy groups
7th/14th	1500/1510z	6766/7744	‘537’ 910 6 16091 29043 59031 06027 22026 31011
21st/28th			‘537’ 920 6 39493 91458 83723 92688 45952 21431

Wednesday

1st/8th	0730/0740z	12110/14977	‘745’ 903 6 84523 50634 61462 84040 39493 91458
15th/22nd			‘745’ 892 6 05424 76458 59421 21677 15541 26059
1st/8th	0820/0830z	9485/11085	‘471’ 239 5 19514 45246 38204 65475 44429
15th/22nd			‘471’ 596 8 07931 98755 84636 45752 64655 58202 44206 29464
1st/8th	0830/0840z	11565/12560	‘464’ 970 5 35630 37392 39723 36946 31568
15th/22nd			‘464’ 908 5 25473 02883 33445 69425 38167
1st/8th	1000/1010z	14580/16020	‘729’ 508 6 81185 75117 48288 96122 57542 80463
15th/22nd			‘729’ 853 6 62795 74228 56551 44999 47773 55580

Thursday

2nd/9th (E17z)	0800/0810z	16780/12850	'674' 231 5 84523 60543 61462 84060 39493
16th/23rd			'674' 803 5 91458 83723 92688 45952 21431
2nd/9th	0930/0940z	9255/10325	'314' 927 5 43613 47545 24535 49598 98142
16th/23rd			'314' 809 5 37393 19514 45246 38204 02856
2nd/9th	1200/1210z	13145/14535	'425' 938 6 76585 39626 43217 94450 26859 57421
16th/23rd			'425' 870 6 60152 23887 25340 88247 15666 92518

Friday

3rd/10th	0900/0910z	6844/7161	'624' 890 5 35630 37392 39723 36946 31568
17th/24th			'624' 908 5 43785 67625 55500 61642 05317
3rd/10th	0930/0940z	10290/9655	'516' 427 8 87461 31487 30130 30905 37181 39971 35748 35931
17th/24th			'516' 938 7 43785 67523 44293 61642 91505 79532 77572

Saturday

4th	0800/0810z	12460/10250	'254' 890 6 36583 42069 30913 32098 31335 36683

With thanks to Daniel, Gary H, RNGB, Malc, Ary

From Posw

S06 O.M. Voice:-

First + Third Fridays in the Month, 2000 + 2100 OR 1900 + 2000 UTC Schedule:-

6-July-18:- 2000 UTC, 9492 kHz, "483 483 483 00000", signal strength indicating around S7 or so.
2100 UTC, 7528 kHz, second sending, peaking over S9.

20-July-18:- 2000 UTC, 9492 kHz, and 2100 UTC, 7528 kHz, both around S7 to S8, "483 483 483 00000",

3-Aug-18:- This schedule moved back by one hour in August, as was more or less expected based on previous form; missed the first sending which would have been at 1900 UTC:-
2000 UTC, 7528 kHz, "483 483 483 00000", S7 to S8.

17-Aug-18:- 1900 UTC, 9492 kHz, "483 483 483 00000", S4 to S5 at best.
2000 UTC, 7528 kHz, weak at first, came up to S7 to S8 by the end of transmission.

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

7-July-18:- 1900 UTC, 6773 kHz, "263 263 263 00000".
2000 UTC, 5773 kHz, second sending, both transmissions pushing the S-meter over the "9".

18-Aug-18:- 1900 UTC, 6773 kHz, and 2000 UTC, 5773 kHz, both strong signals, "263 263 263 00000".

S06s Y.L. Voice:-

Monday 0830 + 0840 UTC Schedule, Call "371":-

16-July-18:- 0830 UTC, 8221 kHz , DK/GC "928 928 5 5", "58202 44206 29464 25472 02883", signal strength indicating around S7.
0840 UTC, 9353 kHz, second sending, weak, sank into noise and became unreadable.

20-Aug-18:- 0830 UTC, 8221 kHz:- DK/GC "289 289 5 5", "24686 26572 84686 25545 58546".
0840 UTC, 9353 kHz, both transmissions S5 to S6.

Tuesday 0730 + 0740 UTC Schedule, Call "427":-

3-July-18:- 0730 UTC, 7365 kHz, DK/GC "901 901 5 5", weak signal, over-riding German language broadcast station on the same frequency, 5Fs "12444 38625 89531 52814 95931".
0740 UTC, 11655 kHz, second sending, much stronger signal.

17-July-18:- 0730 UTC, 7365 kHz, DK/GC "891 891 5 5", weak signal, "34242 83255 55945 60494 93543".
0740 UTC, 11655 kHz, S6 to S7.

31-July-18:- 0730 UTC, 7365 kHz, "427 427 427 00000", the "when there are five of any particular day" end of the month "no message" routine; since this always appears to be the standard procedure why bother to transmit at all?
0739 UTC, plus ten seconds or so, 11655 kHz, second sending starting about a minute early, usual for the second sending of a "no message".

21-Aug-18:- 0730 UTC, 7365 kHz, strong signal, DK/GC "938 938 6 6", "97520 26569 05518 71527 45251 05317".
0740 UTC, 11655 kHz, slightly weaker signal.

Wednesday 0730 + 0740 UTC Schedule, Call "745":-

18-July-18:- 0730 UTC, 12110 kHz, DK/GC "893 893 6 6", "43613 47545 24535 49598 08142 42214", peaking S8.
0740 UTC, 14977 kHz, second sending, slightly stronger.

15-Aug-18:- 0730 UTC, 12110 kHz, DK/GC "892 892 6 6", "05424 76458 59421 21677 15541 26059".

0740 UTC, 14977 kHz, both strong signals.

22-Aug-18:- 0730 UTC, 12110 kHz, “892 892 6 6” and 5Fs as on 15-Aug.
0740 UTC, 14977 kHz, both transmissions strong signals.

Wednesday 0820 + 0830 UTC Schedule, Call “471”:-

15-Aug-18:- 0820 UTC, 9485 kHz, DK/GC “596 596 8 8”, a higher group count than is usual from S06s, “07931 98755 84636 45752 64655 58202 44206 29464”. Also an unusual finishing routine this morning, an extra “5” before the “null” ending so it came over as, “596 596 8 8 5 5 00000”.
0830 UTC (?) 11085 kHz, second sending, also with the added on “5”, may have started late, missed the very beginning, DK/GC not reached until a bit after 0835z by my watch.

22-Aug-18:- 0820 UTC, 9485 kHz, weak signal, sank into noise, unreadable.
0831 UTC, definitely a late start this morning, “596 596 8 8” and 5Fs as last time, also had the extra “5 5” in the ending routine, around S7 with deep QSB.

Wednesday 1000 + 1010 UTC Schedule:-

18-July-18:- 1000 UTC, 14580 kHz, DK/GC “846 846 5 5”, “64783 00912 76934 74914 32940”,weak at first, came up to S5 to S7 at times.
1010 UTC, 16020 kHz, very weak signal, just about readable.

15-Aug-18:- 1000 UTC, 14580 kHz, DK/GC “853 853 6 6”, “62795 74228 56551 44999 47773 55580”.
1010 UTC, 16020 kHz, second sending, both transmissions strong with QSB.

Friday 0930 + 0940 UTC Schedule, Call “516”:-

13-July-18:- 0930 UTC, 10290 kHz, DK/GC “872 872 9 9”, a higher group count than is the norm, “67490 33567 55001 96483 78654 76578 96001 44338 22765”, weak signal.
0941 UTC, 9655 kHz, started late, no voice heard until just after 0941z.

27-July-18:- 0930 UTC, 10290 kHz, DK/GC “430 430 7 7”, peaking over S9 this morning, “40048 43167 30343 84217 43043 34433 36420”
0940 UTC, 9655 kHz, second sending, also a strong signal.

3-Aug-18:- 0930 UTC, 10290 kHz, DK/GC “427 427 8 8”, another somewhat higher group count, “87461 31487 30130, 30905 37181 39971 35748 35931, strong signal.
0941 UTC, 9655 kHz, another late start, also a strong signal.

10-Aug-18:- 0930 UTC, 10290 kHz, “427 427 8 8” and same 5Fs as last time.
0940 UTC, 9655 kHz, no late start this morning.

17-Aug-18:- 0930 UTC, 10290 kHz, DK/GC “938 938 7 7”, up to a “9” on the S-meter,
“43785 67523 44293 61642 91505 79532 77572”.
0940 UTC, 9655 kHz, slightly weaker.

First Saturday in the Month 0800 + 0810 UTC Schedule, Call “254”:-

7-July-18:- 0800 UTC, 12460 kHz, DK/GC “937 937 6 6”, “01405 15003 24357 60583 54545 50128”, S7 to S8.
0810 UTC, 10250 kHz, second sending, much weaker.

4-Aug-18:- 0800 UTC, 12460 kHz, DK/GC “890 890 6 6”, “36583 42069 30913 32098 31335 36683”, reasonable copy.
0810 UTC, 10250 kHz, very weak, largely unreadable.

S11a log July/August

4870kHz	1955z	04/07 [379/32 95991 88965 63851 16762 10557 24104 64890 91199……45592 12435]	RNGB	WED
	1955z	13/07 [373/00] S9 (Dutch SDR)	Malc	FRI
	1955z	20/07 [377/00] Konyetz 1958z S9	Malc	FRI
	1955z	25/07 [379/00] Konyetz 1958z S5	Malc	WED
	1955z	27/07 [378/00] Konyetz 1958z S9	Malc	FRI
	1955z	01/08 [370/00] Konyetz 1958z S6	Malc, RNGB	WED
	1955z	08/08 [378/00] Konyetz 1958z S5	Malc	WED
	1955z	10/08 [371/00] Konyetz 1958z S6	Malc, RNGB	FRI
	1955z	15/08 [379/00] Konyetz 1958z S8	Malc	WED
	1955z	17/08 [378/00] Konyetz 1958z S5	Malc	FRI
	1955z	22/08 [373/31 60189 58425 58558 22032 60022……72094] Konyetz 2005z S5	Malc	WED
	1955z	24/08 [373/31 60189……etc] Repeat of Wednesday	Malc	FRI
	1955z	29/08 [376/00] Konyetz 1958z S4	Malc	WED
5149KHz	0455z	13/07 [325/00]	Ary	FRI
	0455z	07/08 [329/35 34619 56949 65177 06362 93993 67811……08537 02780] No "Vnimaniye"	Ary	MON

5737kHz	2050z	04/07 [481/36 21201 98469 21953 75585 03550 60520 94656 74690……99275 19762] Strong	RNGB	WED
	2050z	15/07 [480/00] Konyetz 2053z S5	Malc	SUN
	2050z	22/07 [485/00] Strong	RNGB	SUN
	2050z	25/07 [480/00] Konyetz 2053z S5	RNGB, Malc	WED
	2050z	29/07 [487/00] Konyetz 2053z S7	Malc	SUN
	2050z	05/08 [482/00] Konyetz 2053z S4	Malc, Thomas	SUN
	2050z	08/08 [480/00] Kionyetz 2053z S5	Malc, Thomas	WED
	2050z	12/08 [486/00] Konyetz 2050z S6	Malc	SUN
	2050z	15/08 [482/00] Konyetz 2053z S4	Malc	WED
	2050z	19/08 [486/00] Konyetz 2053z S5	Malc	SUN
	2050z	22/08 [486/31 54113 24168 94154 62552 22418……06483] Konyetz 2100z S5	Malc	WED
	2050z	29/08 [483/00] Konyetz 2053z S4	Malc	WED
6977kHz	1020z	03/07 [42?/36 19607 41499 01804 12104 56025……01770 92238]	RNGB	TUE
	1020z	17/07 [420/00] Konyetz 1023z S5	Malc	TUE
	1020z	20/07 [426/00] Konyetz 1023z S7 (Dutch SDR)	Malc	FRI
	1020z	03/08 [426/00] Out 1023z S2	Malc	FRI
	1020z	07/08 [421/001 Konyetz 1023z S4 (Dutch SDR)	Malc, RNGB	TUE
	1020z	10/08 [421/00] Konyetz 1023z S2	Malc	FRI
	1020z	14/08 [429/00] Konyetz 1023z S2	Malc	TUE
	1020z	17/08 [422/00] Konyetz 1023z S2	Malc	FRI
	1020z	21/08 [421/36 05144 29899 23760 83483 12891……..85675 72624] Konyetz 1031z S2	Malc	TUE
	1020z	24/08 [421/36 05144…..etc] Repeat of Tuesday	Malc, RNGB	FRI
10210kHz	1015z	09/07 [478/00]	Ary	MON
	1015z	16/07 [477/39 06158 11153 12439 19288 54904 43300 ……36036] Konyetz 1025z S4	Malc	MON
	1015z	19/07 [477/39 06158….etc] Repeat of Monday	RNGB	THU
	1015z	23/07 [479/00] Out 1018z S2	Malc	MON
	1015z	30/07 [475/00] Konyetz 1018z S2 (Dutch SDR)	Malc	MON
	1015z	02/08 [477/00] Fair	RNGB	THU
	1015z	06/08 [477/34 68545……..46007] Konyetz 1025z S3 (Dutch SDR)	Malc	MON
	1015z	09/08 [471/34 68555 75347 46297 67423 41611……46007] Konyetz 1026z S5 (Dutch SDR)	Malc	THU
	1015z	13/08 [470/001 Konyetz 1018z S2	Malc	MON
	1015z	16/08 [477/00] Good	RNGB	THU
	1015z	20/08 [479/00] Konyetz 1018z S2	Malc, RNGB	MON
	1020z	23/08 [479/00] Konyetz 1023z S3	Malc	THU
	1015z	27/08 [475/00] Konyetz 1018z S2	Malc	MON
	1015z	30/08 [479/00] Konyetz 1018z S2	Malc	THU
11092kHz	1540z	21/07 [564/00] Konyetz 1543z S3	Malc	SAT
	1540z	25/07 [567/00] Konyetz 1543z S4	Malc	WED
	1540z	28/07 [563/00] Konyetz 1543z S2	Malc	SAT
	1540z	04/08 [564/32 77273 43978 19503 32769 40905……84268] Konyetz 1550z S2	Malc	SAT
	1540z	08/08 [569/00] Konyetz 1543z S2	Malc	WED
	1540z	11/08 [560/00] Konyetz 1543z S2	Malc, Gary H	SAT
	1540z	15/08 [569/00] Konyetz 1543z S5	Malc	WED
	1540z	18/08 [467/00] Konyetz 1543z S3	Malc	SAT
	1540z	22/08 [561/00] Konyetz 1543z S3	Malc	WED
12457kHz	1850z	14/07 [367/00] ??? Out 2008z S4	Malc	SAT
	1850z	21/07 [282/38 69586 15223 68894 74618……41587] Konyetz 1901z S5	Malc	SAT
	1850z	25/07 [285/00] Konyetz 1853z S9	Malc	WED
	1850z	28/07 [287/00] Konyetz 1853z S5	Malc	SAT
	1850z	01/08 [280/00] Konyetz 1853z S8	Malc	WED
	1850z	04/08 [282/00] Konyetz 1853z S9 (Dutch SDR)	Malc	SAT
	1850z	08/08 [286/00] Konyetz 1853z S7	Malc	WED
	1850z	15/08 [288/00] Konyetz 1853z S5	Malc	WED
	1850z	18/08 [285/00] Konyetz 1853z S5	Malc	SAT
	1850z	22/08 [286/39 60967 57497 38732 84381 35498……34736] Konyetz 1901z S6	Malc	WED
	1850z	25/08 [286/39 60967……etc] Repeat of Wednesday	Malc	SAT
14740kHz	0735z	16/08 [387/00] Konyetz 0738z S2	Malc, RNGB	THU
	0735z	21/08 [380/00] Konyetz 0738z S3	Malc, RNGB	TUE
	0735z	23/08 [385/00] Konyetz 0738z S2	Malc	THU
17378kHz	0735z	03/07 [380/00]	RNGB	TUE
	0735z	12/07 [380/00]	RNGB	THU
	0735z	17/97 [384/32 37324 87127 81844 97136 30976…….55582]	RNGB	TUE
	0735z	19/07 [384/32 37324 87127 81844 97136 30976 13627 77611……95884 55582] (Moscow SDR)	RNGB	THU
	0735z	30/08 [383/00] Konyetz 0738z S2	Malc	THU

V07

Sunday

July 2018

0700z 13563kHz 0720z 12163kHz 0740z 10263kHz

01/07 512 000 Weak

08/07 512 1 7523 47 18002 ... 42855 000 000 No sig report

512 1 7523 47
18002 85225 95828 40998 56459 55513 61953 95960 35157 46159
43013 51144 05701 22521 31331 44065 06628 36269 05006 07340
25843 33147 20633 65710 62877 09970 82951 05572 92256 78697
70736 68026 68152 65805 13633 55249 87192 25017 62913 66352
36859 79966 99922 72251 21969 78164 42855 000 000
Courtesy Ary

22/07 512 1 8317 71 11927 ... 28272 000 000 No sig report

512 1 8317 71
11927 83686 73304 95212 66384 99775 58304 19024 45317 37094
38342 61883 52211 01155 58844 28998 77217 17095 83001 28497
20223 04423 50487 73742 95071 08121 43479 34750 83410 75012
07282 63661 76180 30919 69228 76867 91502 32567 83537 91351
37408 98746 65594 32312 22722 23283 75324 15297 24611 80396
38316 14613 31020 50660 90975 77935 61311 15088 42508 35777
64952 73280 41809 94117 08368 71569 49914 04698 94463 08270
28272 000 000 *Courtesy Ary*

29/07 512 000 [NRH with Malc] No sig report

August 2018

0700z 13563kHz 0720z 12163kHz 0740z

05/08 512 000 AB SUN

26/08 512 1 454 79 04835 ... 82608 000 000 Weak, Argentine

512 1 454 79
04835 46902 13238 06519 01309 45670 03710 55135 38186 37676
08006 49821 46194 69742 99124 15033 57606 95371 97997 46446
12252 87834 94887 04815 92335 49019 77564 58636 12909 42883
32538 60522 63865 63523 43569 33116 18135 87263 43180 23238
45624 81969 96563 91869 09816 43439 87821 01313 75723 51736
34904 74846 33714 73805 78341 66764 17283 11432 24870 84918
05548 65483 72040 80269 51835 29760 50936 10840 70946 29247
79508 96773 28564 23342 73566 08736 68043 25832 82608
000 000 *Courtesy AB*

V15

North Korea Spy Numbers Broadcasting via Pyongyang BS

3320kHz1445z 21/07 AM AB SAT

http://www.numbersoddities.nl/V15-2018-07-21-1445utc-3320khz.mp3

3320kHz1454z 18/08 via Perseus svr- Japan SR SAT

6400kHz1545z 23/08 Music, into V15 //657 and 3320kHz Perseus net- Japan SR THU

6400kHz1445z 25/08 V15- no message. A short statement by the YL who does the numbers broadcast at 1450z, and program continued. Perseus svr- Japan. SR SAT

V24

South Korean Intelligence.

5715kHz1500z 21/07 Pop song followed by a message in Korean AB SAT

http://numbersoddities.nl/V24-2017-07-21-1500utc-5715khz.mp3

4900kHz1530z 25/08 V24- no message. Perseus svr- Japan SR SAT

5290kHz1430z 07/08 [Not expected freq] SR TUE

5715kHz1500z 21/08 Pop music then V24 numbers at 1506z. Perseus svr- Japan SR TUE

6215kHz1500z 05/08 Pop song followed by a message in Korean AB SUN

6215kHz 07/08 K-pop followed by numbers by YL in Korean [Perseus sir-Japan] AB SUN

Polytones

New schedule [Thanks Ary]

July 2018

Thursday/Saturday

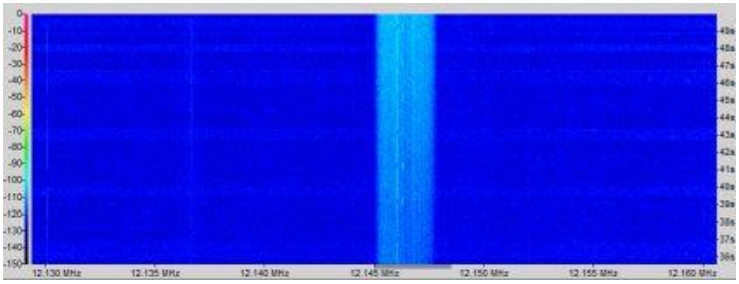
0910z	**13445kHz**	**0930z**	**12145kHz**	**0950z**	**11545kHz**

05/07 05895 00079 41329 ... 57176

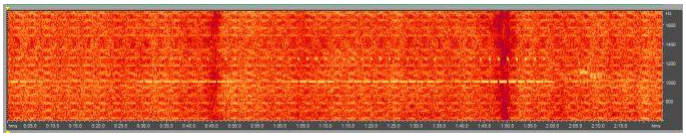
05895 00079 41329 37725 27981 89680 49041 18543 24140 25483
45928 42330 95537 28368 98488 86595 28863 45222 05883 92376
22055 84912 07680 48860 70270 07073 99704 93212 48099 82778
97288 18899 03474 61128 20650 48191 33181 73136 57418 77157
02197 99440 53629 96249 87252 07572 94836 90917 78139 19152
88172 26662 26123 22840 81184 52334 43728 13101 31852 03828
87677 69163 97572 54279 11107 83508 69935 37054 59010 59301
91217 44576 22795 84142 30614 15697 02365 13564 50104 55808
90749 57176 *Courtesy AB*

07/07 05895 00079 41329 ... 57176 [0920z LocalQRM5] Fair

12/07 06562 00001 00000 … 34665 [0910z Fair] Weak, unworkable



Off-air spectral view of 0930z 14/07 sending in XJT



Another view of 0930z 14/07 sending in XJT from sound file

14/07 09761 00001 00000 ... 35267 [0930z XJTQRM3- see above] Fair

19/07 Msg 3m16s lg [0930z XJTQRM5] Weak, unworkable

21/07 07192 00085 70573 ... 71626 [Rpt of 19/07]

07192 00085 70573 87524 84405 57025 41805 66367 34872 89453
84348 08344 61656 89784 66285 16068 33917 65809 57782 83920
57743 19903 89828 48121 16211 96081 54278 92968 19880 35652
81093 74093 90442 13866 68250 70472 57408 26445 49354 92754
64399 08552 42305 23958 96641 96352 54721 09303 13835 25655
28235 62013 19125 59129 28291 39748 90823 13427 68457 00842
42170 62155 45234 06374 54915 80915 30329 51840 87649 22141
91550 84295 93450 57840 56949 84712 16222 80263 05095 20211
91811 64200 87973 96284 77281 88881 55645 71626
Courtesy AB

26/07 Unworkable

28/07 Unworkable

August 2018

0910z	**14372kHz**	**0930z**	**13372kHz**	**0950z**	**12172kHz**	[*Thanks Ary and Danix for freqs*]

02/08 0388 00125 45765 .... ? Weak

04/08 Unworkable

09/08 03306 00001 00000 ... 35653 [0910z Unworkable] Fair, QSB2

11/08 03130 00001 00000 ... 31656 Weak

16/08 Msg 3m57s lg Weak, unworkable

18/08 04827 00139 59228 ... 53070 [Duration of 3m57s indicates repeat of Msg 16/08] Weak

23/08 05401 00001 00000 … 33653 [0910/0950z Unworkable] Weak, QSB3

25/08 07200 00001 00000 … 32257 Weak

30/08 06851 00001 00000 ... 35663 Weak

Another new Polytone **Wednesday/Thursday** schedule was also uncovered by Ary at 0850z 15/08, freq 11574kHz. Not best radio reception in UK.

Good copy from Ary:

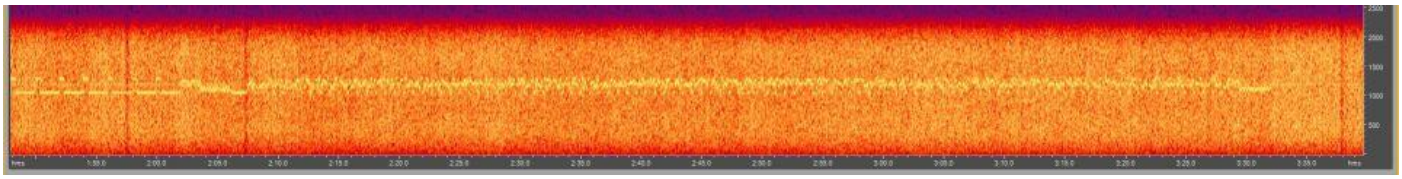
Wed/Thu

Ary notes, "Just like last week I copied the new XPA2 schedule at 0850 UTC but I still couldn't find the two other slots."

11574kHz0850z 22/08 08785 00115 80814 ... 43643 AB WED

08785 00115 80814 97538 91273 03633 12910 74074 59760 59463
42890 52587 08057 82476 01672 64946 45354 50317 20289 91005
93836 33630 94648 90014 08436 90712 40897 03232 11781 34280
40521 54028 13901 88639 79616 64466 57580 28918 40694 59533
80235 55638 89079 56809 76403 77387 16710 33792 67808 00326
53465 26314 53083 52867 65851 55448 37243 25311 75106 80219
35651 23487 95861 26291 84239 84351 86664 70043 36497 05589
05143 42901 44697 66447 58549 49222 06599 41972 22950 09224
90855 00434 17590 46197 73123 60940 51809 27784 22959 83498
72483 15655 85631 51861 83784 31768 13324 97643 49964 50925
38978 32151 51302 59359 89591 48974 33114 27889 16515 36781
50025 33148 37748 50528 97879 46912 47241 43463
Courtesy Ary

23/08 03603 00104 03961 … 63564 PLdn THU
[Checks before and after on a 10, 20 and 30min basis using Twente SDR revealed no frequencies. Signal on 11574kHz can be copied via radio as can be seen below]:



23/08 as copied from RX320 receiver located in Knightsbridge, London

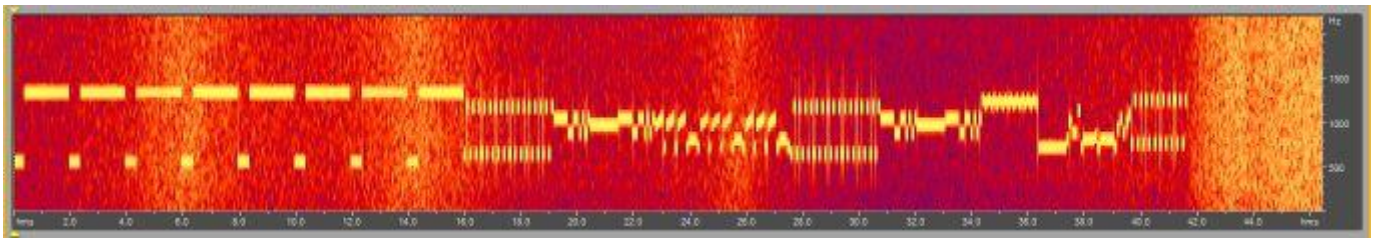
Freqs across schedule are:

0810z 13974kHz
0830z 12074kHz
0850z 11574kHz

29/08 03175 00120 06336 … 77336 [0810/0830z NRH] Weak, QSB3 Pldn WED

30/08 Weak, unworkable

XPA c



13509kHz 0620z 25/07/2018

Monday/Wednesday

July 2018

0600z 11409kHz 0620z 13509kHz 0640z 14609kHz

02/07 06373 00119 28125 ... 76416 Very strong

456 456 456 1 456 456 456 1 456 456 456 1
06373 00119 28125 66875 54527 66330 19177 76108 63509 90615
22610 65366 87836 66940 92175 72447 87095 46113 35290 60289
91289 76076 51541 05748 06627 91980 14229 39555 82315 89700
33592 09886 40128 24059 92964 61511 12678 93040 20893 04076
79289 94133 01901 55168 32041 34096 80913 49566 97923 74948
83452 37429 23053 18863 46438 01527 39088 03049 54914 47153
44921 68854 72591 10834

49143 79681 25023 05941 28814 38197 86815 91237 58039 15883
21198 48326 23471 31420 58710 55434 87758 62026 62554 93985
85330 28817 70664 68483 34370 06540 13095 17988 45387 76900
87097 20136 67406 60436 40907 76969 23441 58574 93940 09075
92790 02694 87990 11026 04537 96209 99025 88166 28599 37347
62366 47775 00013 06450 60326 87463 71342 76416
Courtesy PLdn

04/07	456 1 06373 00119 28125 ... 76416	Very strong
09/07	456 000 01585 00001 00000 ... 36261	Very strong
11/07	456 000 01451 00001 00000 ... 33656 [0620z QSB3]	Very strong
16/07	456 1 00145 00091 46508 ... 75238	Strong

456 456 456 1 456 456 456 1 456 456 456 1
00145 00091 46508 01536 94315 63268 46816 35655 21516 04025
21953 93225 36898 56952 57811 57319 26703 29020 44428 69728
42991 50541 15782 80353 04439 91911 61417 27526 83717 42129
42557 38862 65297 33439 07952 08067 69219 33510 65026 05850
19009 08829 37105 81125 29009 45484 28300 03167 42090 83190
93216 66911 66300 07455 09084 66369 91493 66251 93560 29777
24975 79404 19172 78689

87588 26986 37023 16090 37219 83931 12715 01400 68938 80342
82169 80926 59526 52539 86391 65784 41024 46990 50057 68704
56849 35933 30772 41587 64843 27302 92813 80295 95657 75236
Courtesy PLdn

18/07	456 1 00145 00091 46508 ... 75236 [0600z WeakQSB3]	Very strong
23/07	456 000 07700 00001 00000 ... 34657	Very strong
25/07	456 000 05228 00001 00000 ... 36257	Strong
30/07	456 000 09083 00001 00000 … 32671 [0740z Fair]	Very strong

August 2018

0600z	**10868kHz**	**0620z**	**12168kHz**	**0640z**	**13368kHz**	
01/08	813 000 01772 00001 00000 ... 35160					Strong, QSB2
06/08	813 000 02712 00001 00000 ... 35653					Strong
08/08	813 000 09496 00001 00000 ... 36272					Very strong
13/08	813 1 00132 00111 84061 ... 05061			[0600z QSB3]		Very strong

813 813 813 1 813 813 813 1 813 813 813 1
00132 00111 84061 58422 25096 52808 76519 95108 05097 58651
92710 20557 03182 96534 83755 44206 00498 75571 00292 66997
76285 23413 66271 33942 38077 66889 98819 54061 83389 20325
67113 94429 89024 11368 17738 61974 96821 73837 59621 83325
35808 28230 50253 86202 63488 61379 61672 02190 47183 79098
96911 24267 38512 18876 32754 28802 36246 85227 57436 66565
04607 61293 87266 52380

29460 49945 48050 06786 27256 25714 78956 49275 92797 13250
17804 65546 42713 36518 87763 41720 03434 50830 23124 24681
19114 61532 60774 68081 33653 14449 23963 42483 62113 64354
79672 56742 17108 54445 93608 91639 09354 15852 92122 09362
31302 70941 27885 74807 81061 41716 50384 89598 09990 05061
Courtesy PLdn

15/08	813 1 00132 00111 84061 ... 05061	Very strong
20/08	813 000 05419 00001 00000 ... 37656	Very strong
22/08	813 000 08267 00001 00000 ... 35666	Very strong
27/08	813 1 00383 00135 52116 ... 50552 [0640z Unworkable]	Very weak
29/08	813 1 00383 00135 52116 ... 50552	Strong

XPA2 m

Sunday/Tuesday

July 2018

2100z	**14538kHz**	**2120z**	**13538kHz**	**2140z**	**12138kHz**	
01/07	00408 00063 43843 ... 65623					Weak Argentine,Very strong UK
03/07	00408 00063 43843 ... 65623					Very strong
08/07	01119 00001 00000 ... 36252					Weak Argentine,Very strong UK
15/07	00288 00101 58645 ... 42225					Very strong
18/07	00288 00101 58645 ... 42225					Very strong
22/07	03938 00001 00000 … 41656					Weak Argentine, Very strong UK

XPA2 m continued ….

24/07	06654 00001 00000 ... 36263	[2100z Weak]	Very strong
29/07	07457 00079 66689 ... 45464		Weak Argentine, Very strong UK
31/07	07457 00079 66689 ... 45464		Very strong

07457 00079 66689 86344 30115 91641 11505 08610 51696 53995
15600 95100 53531 01159 91494 36307 84357 08114 53617 19511
79108 17000 49014 43809 78230 09185 64357 90119 32328 48064
38181 87464 62524 44111 51776 81185 54883 14636 86011 12805
71403 24111 78365 86611 16804 08284 16488 99580 60444 86434
56188 06011 10536 15778 78707 84434 42838 08588 70335 11521
91816 66816 11311 05153 14818 05449 88195 10800 76315 58164
36448 41047 54071 11658 47487 84074 78631 01477 81155 11797
59091 45464 *Courtesy PLdn*

August 2018

2000z	**14738kHz**	**2020z**	**13438kHz**	**2040z**	**12138kHz**		
05/08	08169 00001 00000 ... 36666						Very strong
07/08	03253 00091 75875 ... 53762						Very strong UK, Weak Argentine

03253 00091 75875 85893 96343 78194 98279 91890 14377 53799
74785 08017 62487 09400 01672 23374 64061 92258 94669 39273
80391 09520 32918 48934 94920 98805 26380 64376 10897 77312
87712 49983 37961 28918 41224 15144 18767 26877 24294 89415
43239 09178 50258 54177 60910 41618 49197 63588 43719 61469
58932 98963 31985 27342 29013 69287 77420 45133 16588 89791
83049 85856 01999 98626 70049 28284 56338 41333 19576 13760
24118 17511 51083 11991 95042 36927 46146 92987 68451 64886
74408 27775 67695 99097 26138 86509 06263 94386 13082 04174
97418 04200 30688 53762 *Courtesy DanAr*

12/08	03253 00091 75875 ... 53762		Weak Argentine, strong UK
14/08	01968 00001 00000 ... 41657	[2000z Strong]	Very strong
19/08	04641 00001 00000 ... 34660	[2000z Fair, QSB3]	Very strong UK, Weak Argentine
21/08	00501 00087 49827 ... 17204		Very strong
26/08	00501 00087 49827 ... 17204		Weak Argentine, NRH UK
28/08	Null message	[2000/2020z NRH]	2040z Unworkable

XPA2 r

Friday/Saturday

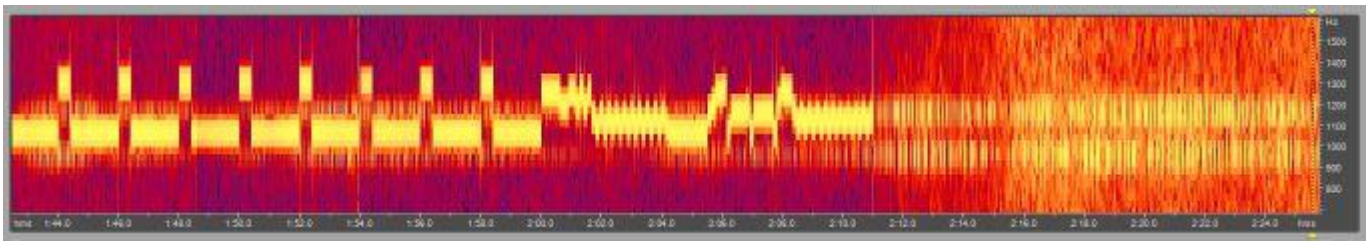
July 2018

2100z	**15967kHz**	**2120z**	**13884kHz**	**2140z**	**12217kHz**		
06/07	00569 00091 18826 ... 43645						Very strong
07/07	00569 00091 18826 ... 43645						Very strong
13/07	01210 00001 00000 ... 32252						Strong
14/07	05638 00001 00000 ... 40260						Very strong
20/07	09608 00127 52704 ... 24404					[2100z unworkable]	Strong
21/07	09608 00127 51704 ... 24404						Weak Argentine, Fair UK
27/07	01268 00001 00000 ... 32257						Strong
28/07	01734 00001 00000 … 36654						Weak Argentine, Very strong UK

August 2018

1900z	**16167kHz**	**1920z**	**14663kHz**	**1940z**	**13923kHz**		
03/08	03559 00001 00000 ... 40260					[1900z Weak]	Strong
04/08	01423 00001 00000 ... 34653					[1900z Weak]	Strong
10/08	07586 00001 00000 ... 36667						Weak Argentine,Very strong UK

XPA2 r continued:



14663kHz 1920z 11/08 note Data QRM, no effect on polytone. Sigs started 39s before start of 1920z schedule

11/08	02667 00001 00000 ... 37660	[1900z Fair, 1920z DataQRM2]	Very strong
17/08	1900/1920z NRH, 1940z Unworkable		
18/08	00289 00145 34147 ... 55137	[1900z Fair, QSB2]	Very strong
24/08	07469 00001 00000 ... 37665	[1940z Weak]	Strong
25/08	05581 00001 00000 ... 34265	[1900z Fair]	Strong
31/08	05424 00001 00000 35257	[1920z Strong, DATAQRM2]	Weak

XPA2 t

Believed closed; schedule removed from Polytone chart.

X06 Mazeilka

Hello to all,

Before we start with the logs, here are 2 news from the scene :

Since early July, the master database of the X06 logs is in my hands and I update it every time, when I get new logs. Since September 1st, our team has a new member : Curt Rowlett from the States joined ; welcome Curt.

X06 Mazielka (1c) logs section

Date	Day	UTC	Freq	Scale	Monitor	Comments
20180507	Thu	0724	17517	314265	Edd Smith	I. p., G380
20180705	Thu	0946-0949	10372	431625	Ary/NL	I. p., R
20180708	Sun	2006	14538	1-6-1-	LU5EMM	Strong X06b before XPA2
20180708	Sun	2010	14538	1--6--	LU5EMM	Strong X06b before XPA2
20180711	Wed	0747-0804	14655	164253	Danix/PL	G395
20180711	Wed	0807-0820	11153	465132	Danix	G100(1)
20180712	Thu	1055-1105	14442	564213	Danix	G118
20180713	Fri	0955-1006	15828	256134	Danix	G125
20180713	Fri	0957-1006	14663	615243	Danix	G127
20180716	Mon	0732-0810	14825	641523	Danix	G337
20180716	Mon	0743-0747	12152	432516	Danix	G341
20180716	Mon	1541-1549	12199	532614	Danix	G147(2)
20180716	Mon	1812	16263	1--6--	Schorschi	Strong X06b before E07(3)
20180717	Tue	0836-0857	12149	154263	Danix	G148
20180717	Tue	0851-0855	11462	165423	Danix	G151
20180717	Tue	1142-1144	17454	325614	Danix	G400
20180719	Thu	0716-0733	15866	436512	Edd	I. p., G180
20180722	Sun	1125-1136	15710	261453	Danix	G285
20180723	Mon	0801-0822	11537	421635	Danix	G220
20180723	Mon	0819-0845	11525	156234	Danix	G203
20180723	Mon	1801/1808	16263	1--6--	LU5EMM	Good X06b before E07 (again: 1819)
20180723	Mon	1802/1806	14763	1--6--	LU5EMM	Good X06b before E07 (again: 1820)
20180724	Tue	0814-0821	16257	542136	Danix	G88(4)
20180724	Tue	0959-1001	13510	612534	Danix	G234
20180725	Wed	0721-0727	17444	435621	Danix	Alert 2 (G244) 1G244
20180725	Wed	0727-0732	15651	435621	Danix	2.2
20180725	Wed	0737-0748	10814	412356	Danix	Alert 2 (G243) 1
20180725	Wed	0748-0756	13369	412356	Danix	2.2
20180725	Wed	0757-0800	11153	465132	Danix	G246
20180725	Wed	0801-0805	14655	164253	Danix	G402
20180725	Wed	0850-0903	18245	134265	Danix	Alert 2 (G90) 1
20180725	Wed	0903-0917	16116	134265	Danix	2.2
20180725	Wed	1035-1045	18660	621543	Danix	G248(5)

Date	Day	UTC	Freq	Scale	Monitor	Comments
20180726	Thu	0759-0806	13854	521634	Danix	G261
20180726	Thu	0943-0948	13506	164532	Danix	G252
20180726	Thu	1059-1106	14442	564213	Danix	G263(6)
20180726	Thu	1413.1420	14812	263145	Danix	G256
20180727	Fri	0833-0840	10653	356412	Danix	G271
20180727	Fri	1007-1013	12213	615243	Danix	G276
20180728	Sat	1920/1925	13884	1--6--	LU5EMM	Strong X06b before XPA2(7)
20180728	Sat	1922/1926	15967	1--6--	LU5EMM	Strong X06b before XPA2(7)
20180729	Sun	2007/2012	13538	1--6--	LU5EMM	Fair X06b before XPA2
20180729	Sun	2008/2013	14538	1--6--	LU5EMM	Fair X06b before XPA2
20180801	Wed	0635-0641	13838	256341	Danix	G311
20180801	Wed	0806-0812	17430	214356	Danix	G24
20180801	Wed	0822-0825	12138	362154	Danix	G32
20180801	Wed	1110-1119	16115	215346	Danix	Alert 2 (G25) 1
20180801	Wed	1119-1124	14650	2155346	Danix	2.2(8)
20180802	Thu	0635-0643	15866	436512	Danix	Alert 2 (G44) 1(9)
20180802	Thu	0643-0653	17468	436512	Danix	2.2
20180802	Thu	0700-0718	16276	314265	Danix	G380
20180802	Thu	1236-1241	18575	352416	Danix	G43
20180803	Fri	1002-1007	14501	361245	Danix	G53
20180803	Fri	1020-1027	12194	625413	Danix	Alert 2 (G56) 1
20180803	Fri	1027-1035	13547	625413	Danix	2.2
20180805	Sun	1820/1824	13438	1--6--	LU5EMM	Weak X06b before XPA2m
20180805	Sun	1821/1825	14738	1--6--	LU5EMM	Fair X06b before XPA2m
20180807	Tue	0751-0814	12157	165423	Danix	G12(10)
20180807	Tue	0757-0809	13524	125643	Danix	G317
20180807	Tue	1821/1826	13438	1--6--	LU5EMM	Weak X06b before XPA2m
20180807	Tue	1822	14738	1--6--	LU5EMM	Weak X06b before XPA2m
20180807	Tue	1827/1830	14738	1--6--	LU5EMM	Weak X06b before XPA2m
20180808	Wed	0811	14655	164253	Ary	Shortie, G395
20180809	Thu	0811-0816	13843	153624	Ary	I. p., G249
20180809	Thu	0817-0818	12080	1--6--	Ary	X06b i. p.
20180810	Fri	1752/1755	14663	1--6--	LU5EMM	Weak X06b before XPA2r
20180812	Sun	1850	13438	1--6--	LU5EMM	Weak X06b before XPA2m
20180812	Sun	1851	14738	1--6--	LU5EMM	Weak X06b before XPA2m
20180812	Sun	1854/1858	13438	1--6--	LU5EMM	Weak X06b again before XPA2m
20180812	Sun	1855/1859	14738	1--6--	LU5EMM	Weak X06b again before XPA2m
20180815	Wed	1741	14647	1--6--	LU5EMM	Strong X06b before E07
20180815	Wed	1743	16147	1--6--	LU5EMM	Strong X06b before E07
20180815	Wed	1749	14647	1--6--	LU5EMM	Weak X06b before E07
20180815	Wed	1752	16147	1--6--	LU5EMM	Weak X06b before E07
20180815	Wed	1822	16147	1--6--	LU5EMM	Weak X06b before E07(11)
20180819	Sun	1819/1824	13438	1--6--	LU5EMM	Strong X06b before XPA2m
20180819	Sun	1831/1853	13438	1--6--	LU5EMM	Weak X06b before XPA2m
20180821	Tue	1802	14647	1--6--	LU5EMM	Fine X06b before E07
20180821	Tue	1804	16147	1--6--	LU5EMM	Fine X06b before E07
20180821	Tue	1806/1824	14647	1--6--	LU5EMM	Weak X06b before E07
20180821	Tue	1807/1825	16147	1--6--	LU5EMM	Weak X06b before E07
20180825	Sat	0814	12172	1--6--	Ary	X06b before XPA2
20180825	Sat	0820/0822	12172	1--6--	Ary	X06b before XPA2
20180827	Mon	0650/0652	10278	1--6--	Ary	X06b before XPA2
20180828	Tue	1015	14970	216354	PaulH/UK	G228

1) 3000Bd PSK-8 + 45Bd MFSK-66 on 11154 kHz during that transmission

2) Around that time, a lot of 3000Bd PSK-8 bursts from the Russian embassy in Paris on several freqs, Moscow answered at 1152 UTC on 12199 kHz

3) Came again at 1816 and 1820 UTC

4) 3000BD followed by brief MFSK-66 at 0824 UTC, QSX not found

5) MFSK-66 at 1051-1053 UTC, QSX not found

6) 3000Bd at 1109 and 1118 UTC, MFSK-66 at 1119-1121 UTC, QSX not found

7) Better X06b signal than XPA2

8) 3000Bd at 1127 and 1130 UTC, no link established

9) Clashing with 3000Bd bursts on the same freq

10) Started with “164532”, break at 0804-06, returned with same wrong scale, stopped briefly at 0808 and came back with the correct “165423”

11) Some Hz off freq

Many thanks especially to Danix for his FSK monitorings, but also of course to all other contributors to the logs section. Good-bye till next time

Jochen Schäfer, Numbers-, X06 database and Teamkopf [*Tnx Jochen*]

Hybrids

HM01

HM01 has continued unabated through July and August, their clocks were slipping further and further backwards with the callups finishing almost 5 minutes before the the top of the hour towards the end of August, however they seem to have been reset now with the callups starting on the hour.
Not much in the way of anomalies, on 18/7 a broadcast station was heard before the callups started. The callups stagnated on from 11/7 to 14/7 and then again on14/8 and apart from two attempts to rectify the situation with changes to the callups the situation remained the same at the end of August.

Only one file was sent with an F1x extension this was 36227700.F1G Usual rules applied the extension was F1G and the file name started with 36

Logs

HM01 11435kHz 1600z 1/7 [03268 15381 10707 36366 17002 40351] New callups positions 2 and 5, 15381 = , 40351 =. SUN
HM01 11435kHz 1600z 2/7 [03269 15381 12281 36367 17003 40351] New callups position 3, 12281 =
HM01 11435kHz 1600z 4/7 [07481 15383 12282 51691 17005 40353] New callups positions 1 and 4, 07481 = 00520748.TXT, 51691 = WED
HM01 11435kHz 1600z 5/7 [07482 15384 12283 51681 17006 40354] THU
HM01 11435kHz 1600z 6/7 [07483 15385 12284 51682 17007 40355] FRI
HM01 11435kHz 1600z 7/7 [07484 15386 12285 51683 17008 40356] SAT
HM01 11435kHz 1600z 10/7 [07486 60301 12287 51685 20461 40358] New callups positions 2 and 5, 60301 = 52886030.TXT, 20461 = 48652046.TXT. MON
HM01 11435kHz 1600z 11/7 [07486 60301 12287 51685 20461 40358] Same callups as yesterday. WED
HM01 11435kHz 1600z 12/7 [07486 60301 12287 51685 20461 40358] Same callups as yesterday. THU
HM01 11435kHz 1600z 13/7 [07486 60301 12287 51685 20461 40358] Same callups as yesterday. FRI
HM01 11435kHz 1600z 14/7 [07486 60301 12287 51685 20461 40358] Same callups as yesterday. SAT
HM01 11435kHz 1600z 15/7 [07487 60301 46621 51686 20462 74861] New callups positions 3 and 6 46621 = 86514662.TXT , 74861 = 62547486.TXT. SUN
HM01 11435kHz 1600z 16/7 [07488 60302 46621 51687 20463 74861] Windows ding at beginning of callups. MON
HM01 11435kHz 1600z 17/7 [07489 60303 46622 12041 20464 74862] New callup position 4, 12041 = 51551204.TXT. TUE
HM01 11435kHz 1600z 18/7 [77001 60304 46623 12041 20465 74863] New callup position 1, 77001 = 36227700.F1G. WED
HM01 11435kHz 1600z 19/7 [77001 60305 46624 12042 20466 74864] THU
HM01 11435kHz 1600z 20/7 [77002 60306 46625 12043 20467 74865] FRI
HM01 11435kHz 1600z 21/7 [77003 60307 46626 12044 20468 74866] SAT
HM01 11435kHz 1600z 22/7 [77004 80171 46627 12045 32571 74867] New callups positions 2 and 5, 80171 = 47568017.TXT, 32571 = 08313257.TXT. SUN
HM01 11435kHz 1600z 23/7 [77005 80171 38871 12046 32571 75431] New callups positions 3 and 6, 38871 = 38533887.TXT, 75431 = 13327543.TXT MON
HM01 11435kHz 1600z 24/7 [77006 80172 38871 12047 32572 75431] TUE
HM01 11435kHz 1600z 25/7 [77007 80173 38872 25541 32573 75432] New callup position 4, 25541 = 40752554.TXT. WED
HM01 11435kHz 1600z 26/7 [68281 80174 38873 25541 32574 75433] New callup position 1, 68281 = 48676828.TXT. THU
HM01 11435kHz 1600z 27/7 [68281 80175 38874 25542 32575 75434] FRI
HM01 11435kHz 1600z 28/7 [68282 80176 38875 25543 32576 75435] SAT
HM01 11435kHz 1600z 2/8 [68287 01123 55561 25548 31141 70421] 4 new callups since 28/7 01123 = 63130012.TXT, 55561 = 81355556.TXT , 31141 = 43553114.TXT, 70421 = 02007042.TXT. THU
HM01 11435kHz 1600z 3/8 [68288 00124 55561 25549 31142 70421] FRI
HM01 11435kHz 1600z 4/8 [68289 00125 55562 27421 31143 70422] SAT
HM01 11435kHz 1600z 5/8 [80401 00126 55563 27421 31144 70423] New callups position 1, 80401 = 87448040.TXT. Sun
HM01 11435kHz 1600z 6/8 [80401 00127 55564 27422 31145 70424] MON
HM01 11435kHz 1600z 7/8 [80402 00128 55565 27423 31146 70425] TUE
HM01 11435kHz 1600z 8/8 [80403 04171 55566 27424 31147 70426] New callup position 2, 04171 = 78440417.TXT. WED
HM01 11435kHz 1600z 9/8 [80404 04171 55567 27425 31148 70427] THU
HM01 11435kHz 1600z 10/8 [80405 04172 11811 27426 47321 70041] New callups positions 3, 5 and 6, 11811 = 12311181.TXT, 47321 = 07884732.TXT. 70041 = 57017004.TXT. FRI
HM01 11435kHz 1600z 11/8 [80406 04173 11811 27427 47321 70041] SAT
HM01 11435kHz 1600z 12/8 [80407 04174 11812 27428 47322 70042] SUN
HM01 11435kHz 1600z 13/8 [80408 04175 11813 27429 47323 70043] MON
HM01 11435kHz 1600z 14/8 [80408 04175 11813 27429 47323 70043] Same callups as yesterday. TUE
HM01 11435kHz 1600z 15/8 [80408 04175 11813 27429 47323 70043] Same callups as yesterday. WED
HM01 11435kHz 1600z 16/8 [52011 04177 11815 84571 47325 70045] New callups positions 1 and 4, 52011 = 76075201.TXT, 42571 = 07134257.TXT. THU
HM01 11435kHz 1600z 17/8 [52011 04177 11815 42571 47325 70045] Same callups as yesterday. FRI
HM01 11435kHz 1600z 18/8 [52011 04177 11815 42571 47325 70045] Same callups as yesterday. SAT
HM01 11435kHz 1600z 19/8 [52011 04177 11815 42571 47325 70045] Same callups as yesterday. SUN
HM01 11435kHz 1600z 20/8 [52011 04177 11815 42571 47325 70045] Same callups as yesterday. MON
HM01 11435kHz 1600z 22/8 [52011 04177 11815 42571 47325 70045] Same callups as Monday. WED
HM01 11435kHz 1600z 23/8 [52014 33503 11819 42575 58771 02451] Back in sequence somewhat with new callups positions 2, 5 and 6, 33503 = , 58771 = 27835877.TXT, 02451 = THU
HM01 11435kHz 1600z 24/8 [52015 33504 74741 42576 58772 02452] New callup position 3, 74741 = 37267474.TXT FRI
HM01 11435kHz 1600z 25/8 [52015 33504 74741 42576 58772 02452] Same callups as yesterday. SAT
HM01 11435kHz 1600z 26/8 [52015 33504 74741 42576 58772 02452] Same callups as yesterday. SUN
HM01 11435kHz 1600z 27/8 [52015 33504 74741 42576 58772 02452] Same callups as yesterday. MON
HM01 11435kHz 1600z 28/8 [52015 33504 74741 42576 58772 02452] Same callups as yesterday. TUE
HM01 11435kHz 1600z 29/8 [52015 33504 74741 42576 58772 02452] Same callups as yesterday. WED
HM01 11435kHz 1600z 30/8 [52015 33504 74741 42576 58772 02452] Same callups as yesterday. THU
HM01 11435kHz 1600z 31/8 [52015 33504 74741 42576 58772 02452] Same callups as yesterday. FRI

Tnx Male Anon

On 21/08 SR noted: “There seems to be a trend starting where Havana is producing their carrier later than the usual hh45 time, and broadcasts seem to continue starting earlier too.”

Notes: 2200z 26/07 11635//16180kHz NRH [SR]

July 2018

10715kHz2200z	29/07[68283 80177 38876 25544 32577 75436] QSA2 QRM3	DanAR	SUN
11435kHz1553z	26/07 Numbers/RDFT, Carrier up 1549z	SR	THU
1553z	30/07 Msg carrier at 1351z	SR	MON
11635kHz2054z	30/07 AM/RDFT 68284 00121 38877 25545 32578 75437	dmhz	MON
16180kHz2055z	31/07 Msg carrier at 2044z Weak	SR	TUE
17480kHz2153z	28/07 On/Off keying until 2157z. Began in the middle of data at 2204z briefly, cutting in again for a minute at 2206z	SR	SAT
2055z	31/07 Msg carrier at 2148z	SR	TUE

August 2018

10715kHz2200z	05/08 (80401 00126 55563 27421 31144 70423) QSA3 QRM3	DanAR, SR	SUN
2158z	06/08 In progress	SR	MON
2155z	08/08 In progress	SR	WED
2200z	12/08 (80407 04174 11812 27428 47322 70042) QSA3	DanAR	SUN
2200z	19/08 (52011 04177 11815 42571 47325 70045) QSA2 QRM3	DanAR, SR	SUN
2200z	29/08 Carrier found at 2155z and bcst late at 2200z	SR	WED
11435kHz1553z	08/08 Carrier at 1550z	SR	WED
1552z	13/08 Carrier at 1548z	SR	MON
1553z	15/08 carrier in progress at 1551z	SR	WED
1553z	18/08 Early start, carrier found 1550z	SR	SAT
1557z	21/08 Carrier on at 1552z	SR	TUE
1550z	23/08 Carrier at 1550z, Broadcast late	SR	THU
1553z	24/08 Carrier found at 1551z, sending early at 1553z	SR	FRI
1600z	28/08 Broad cast; Carrier at 1547z interupted between 1557-1558z	SR	FRI
1645z	29/08 In progress at 1645 utc, switched to 11530 at 1652 for next sched bcst. On air late at 1700z	SR	WED
11530kHz1648z	01/08 Tune up 1648z on at 1653z	SR	WED
1703z	13/08 In progress	SR	MON
1650z	23/08 Carrier at 1650z, Broadcast 1654z	SR	THU
1701z	24/08 In progress	SR	FRI
1747z	24/08 *See 11635kHz 1759z 24/08*		
1650z	25/08. HM01 carrier found at 1650 utc in the noise. Rock song heard and YL EE at 1854z [***NOTE***]	SR	SAT
1652z	29/08 *See 11635kHz 1645z 29/08*		
11635kHz1749z	01/08 carrier at1749z on air at 1753z	SR	WED
2046z	01/08 carrier at 2046z on air at 2058z.	SR	WED
2109z	06/08 Short message; carrier found at 2049z	SR	MON
1750z	17/08 Early start	SR	FRI
1757z	21/08 In progress	SR	TUE
2108z	22/08 Problems: carrier only until 2108 utc. Audio began with "uno" looping for several minutes, then resumed broadcast in progress.	SR	WED
1759z	24/08 Carrier, no msg. Previously at 1747z carrier was on incorrect freq of 11530kHz. Windows XP startup tune at 1751z, off at 1759z transferring to this freq.	SR	FRI
1800z	29/08 Found in progress	SR	WED
2100z	29/08 Carrier at 2052z, bcst at 2100z	SR	WED
1800z	30/08 Sending heard	SR	THU
17480kHz2152z	25/08. HM01 carrier at 2152 utc & faint music. No message heard. [***NOTE***]	SR	SAT

[***NOTE***]
SR Notes for 11530 and 17480kHz 1650 and 21252z respectively 25/08 "HM01 was late shutting down the carrier for the previous hour both times I got them today, and the signal was weak each time. I'm doubtful that it was WRMI at 1650 utc as it was very weak and the signal just stopped. Maybe WMRI was doing a little sneak test??? I didn't look up when WRMI uses 11530. I got to hear the HM01 Windows XP startup tune yesterday, so that was a good laugh."

An interesting image antenna wise:

Interesting image sent in by BR of Marine 2 landing during 'The Donald's' visit to UK, noting the interesting array of dish antennas
[Thanks BR]

Work to begin soon on largest Kingston development in 50 years

Previously Toby Jug Pub as used by Portland Spies: Houghton, Gee, Krogers and Lonsdale

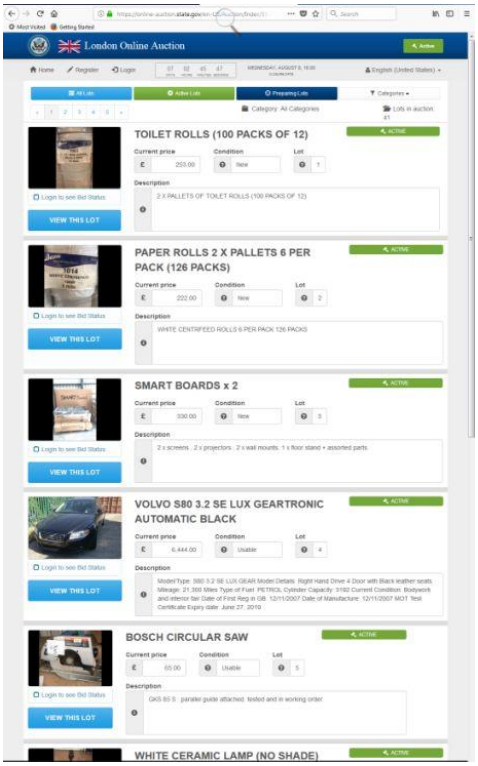
The Toby Jug was where the initial KGB approach was made to Harry Houghton on his return from the British Embassy in Poland [in disgeace] and who gave the Soviets copies of top secret research files from the Underwater Warfare Research Establishment in Portland.
Loss of a piece of historical importance there.

http://www.yourlocalguardian.co.uk/news/16361693.work-to-begin-soon-on-largest-kingston-development-in-50-years/?action=success#comments-feedback-anchor

Early work can now begin on the largest development in Kingston for fifty years, after the council approved a 950-home development on the Tolworth Toby Jug site by the A3.
Developer Meyer Homes has been trying to build on the site ever since it bought the land in 2015 from Tesco.
Cllr Patricia Bamford, chairwoman of the Development Control Committee that gave the permission on July 11, said: "This brownfield site has been left abandoned for over a decade and the need for housing has been growing throughout that period.
"This is a large development that will deliver much-needed housing in the borough, 30 per cent (285 units) of which is affordable."
Plans also include a doctors' surgery, a nursery, a space for the Metropolitan Police and a shop, as well as improvements to Tolworth roundabout and the extension of the 281 bus route.
The council refused a smaller application for 705 homes on the site in July 2016 – a decision that developer Meyer Homes appealed.
Kingston Council then did not fight the appeal, because of the likely high costs involved, and Meyer Homes then submitted a larger application after the secretary of state's inspector suggested the site could hold more homes.
Councillor Malcolm Self, who voted against the 705-home application in 2016 and was part of a group fighting the scheme called Residents Against Over-development, said the circumstances had changed since then, and the inspector's report is a "material consideration".
He said: "One might deduce that if I said the 705 application should be refused, particularly on density grounds, that I might therefore automatically want to refuse this application on the grounds that it's more dense.
"To a large extent I still do feel that, however we are where we are, and we have to take into consideration all the information and facts in front of us, which might include the weight of public opinion, but we can't assess an application solely on the weight of public opinion.
"What we can't do is bury our heads in the sand and say we are going to ignore the inspector's views, whether we agree with the inspector or not.
"What this borough and this area needs whether people like it or not is more housing."
He went on to say he would vote to approve the scheme "with a heavy heart", because he still believed the plans involved over-development.
The decision, made by nine votes for to one against, gives Meyer Homes the go-ahead to build the first 211 homes at the site – the rest of the scheme has been given permission in outline only.
Cllr Kevin Davis, who was leader of the council when the decision not to fight the 2016 appeal was made, voted in favour.
He said: "If we take 20 years to develop every piece of land in the borough, then we are going to be here a very, very long time building homes, and I think the regret is that this site hasn't already been built out.
"It should have been finished probably a decade ago. So something has to happen; it can't be a derelict site any more

http://www.yourlocalguardian.co.uk/news/16361693.work-to-begin-soon-on-largest-kingston-development-in-50-years/?action=success#comments-feedback-anchor

Following the closure of the Berkeley Square location of the US Embassy to a location in Battersea, South London the following items were seen as being unleashed on the British Public at auction:



PoSW's Items of Interest in the Media:-

First a comment on the article on the "Gladio" organisation by the late Keith of Kent in the last newsletter.
This seemed vaguely familiar and initiated a search through my press cutting book because I was sure I had cut out and saved something on the subject from back in the day when it was worth buying a paper on the way in to work, and sure enough there was a letter in the issue of the *Daily Mail* of 8-September-2005; there had been an article in the paper a few days earlier about the World War II Home Guard and how there was a communist element within its ranks; this did not have the ring of truth about it as the Home Guard was established in 1940 as a force which would go into action in the event of invasion, and at that point in time National Socialist Germany and Soviet Socialist Russia were bound by a non aggression pact and the small number of communists and their fellow-travellers in Britain were, if anything, sympathetic to the invaders; it has been said that there was a good deal of low-level sabotage in Britain's factories making weapons and munitions for the war effort carried out by communists under orders from Moscow which only ended when they heard the headlines on the BBC news on the morning of 22-June-1941 that Germany had attacked the Soviet Union.

To return to the letter in the *Mail*, written by a Gary Cartwright of Brussels, of all places; connected with the EU or NATO perhaps? Whatever the case, the letter reads as follows:-
"I suspect any Marxist revolutionary faction in the Home Guard was exaggerated. More interesting is Project Gladio, the network of clandestine resistance cells set up after World War II.
Gladio members, mostly ex-servicemen but also followers of Oswald Mosley's pre-war fascist movement were given a list of prominent suspected communist sympathisers, including politicians, journalists, trades union leaders, clergy and so on.
Gladio's mission, at the first sign of insurrection or invasion, was to execute as many of these people as possible.
At least one name on that list went on to become a labour Prime Minister. Gladio functioned well into the Sixties".

That bit about the Labour Prime Ministers is interesting; there are only two possible candidates here, Harold Wilson who held office several times in the second half of the 1960's and first half of the 1970's, and James Callaghan who succeeded Wilson in 1976 until 1979. Neither gave the impression that they were much in sympathy with Communism although Peter Wright of *Spycatcher* fame was obsessed with the idea that Wilson was a Soviet agent apparently because he had made several visits to Moscow when he was trying to drum up some business when he was with the Board of Trade.
As for Callaghan, well he was just plain incompetent, cock-up rather than conspiracy, and his lacklustre performance as Prime Minister led to the worst defeat ever for the Labour Party in the 1979 general election which ushered in the age of Mrs Thatcher.

Drone news:- These unmanned aircraft, capable of performing all kinds of tasks in the world of aerial espionage and also in the attack role seem to be the in-thing these days; there was a documentary on the subject shown on PBS America TV recently, one of only a handful of TV channels out of heaven knows how many worth paying any attention to, an episode in a series called *Air Warriors*.

A factual account of what drones can do appeared in *The Times* newspaper of 31-July with the headline, "Armed US drones sent to hunt jihadists in Africa", written by Michael Evans in Niger. A small map shows us the location of Niger; it is a country in Africa located to the south of Algeria and Libya; it is not to be confused with the name of Guy Gibson's dog.

The article says, "The US military has begun operating armed Reaper drones from a base in Niger, west Africa, targeting terrorist groups that have brought violence and instability to the region.

Top of the target list will be the leaders of a group linked to Isis that attacked a patrol of US special forces Green Beret soldiers and local troops in Niger last October. Four Americans and five Nigerien soldiers were killed.

Fifty heavily armed jihadist fighters from Islamic State in the Greater Sahara (ISGS) ambushed the patrol near the village of Tongo Tongo in Niger, close to the border with Mali. The jihadists fled across the border after an extensive fire-fight. More than 20 of them were killed.

With Mali involved in a presidential election marred by intimidation from different extremist groups, including the ISGS, the American drones now fitted with a range of weapons, including precision-guided bombs and Hellfire missiles, have been engaged in day and night missions. Although the US has operated drones from Niger for some years, their role was strictly for surveillance and reconnaissance.
A Reaper drone was flying over the area during the attack on the American and Nigerien troops whom they were training.
The Reaper was unarmed and unable to intervene.

It was as a result of this ambush and the lack of immediate back-up firepower that the Niger government approved the deployment of armed Reapers to the base in Niamey, the capital.

US Africa command, based in Stuttgart, confirmed that armed drones were now operating from Niger, although officials would not say whether there had yet been any strike missions.
The addition of weapons to the Reapers, which have a combat range of 1,150 miles, gives the US military the ability to strike terrorist targets in Niger, Mali, Burkina Faso and Nigeria.

The US military is due soon to move its fleet of armed Reapers from Niamey to a new $110 million base at Agadez, on the edge of the Sahara desert."

Point to ponder:- "Democracy is the worst form of Government except all those other forms that have been tried from time to time" - Winston Churchill.

Thanks Peter

The Spectre 3000's News Round-up

BBC News 07/07/2018

https://www.bbc.com/news/world-asia-china-44393297

US embassy pulls more China staff over mystery illness

The US has removed several more officials from China over fears they have contracted the same mysterious illness that affected staff in Cuba.

The employees, who were working in the southern city of Guangzhou, had reported hearing odd noises.

Last year, 24 US staff working at the Cuba embassy suffered brain injuries after reporting "auditory sensations".

The incidents have raised concerns that a government or agency may be targeting the US with a new type of sonic weapon.

The cases come at a time when China-US relations have been strained amid fears of a trade war.

Earlier this month, the State Department issued a health warning to its staff saying an employee in China had reported "subtle and vague, but abnormal, sensations of sound and pressure".

It said it was taking the reports seriously, but did not yet know the cause, and warned staff to move to a safe place if they encountered any "unusual acute auditory or sensory phenomena accompanied by unusual sounds or piercing noises".

What is a sonic weapon?

Reality Check: Are we on the brink of a trade war?

One US official was diagnosed with mild brain trauma, the same injury that affected the Cuban embassy staff.

The State Department has warned that US diplomats should alert their mission's medical staff "if they note new onset of symptoms that may have begun in association with experiencing unidentified auditory sensations".

The department said it had sent a team to Guangzhou and set up a task force to oversee the response to the mystery attacks in China and Cuba.

Cuba has denied targeting embassy staff, and the US has not blamed the country's government for the suspected attacks.

Symptoms of a sonic attack may include dizziness, headaches, vomiting, bowel spasms, vertigo, permanent hearing loss and even brain damage.

"US medical professionals will continue to conduct full evaluations to determine the cause of the reported symptoms and whether the findings are consistent with those noted in previously affected government personnel or possibly completely unrelated," State Department spokeswoman Heather Nauert said in a statement.

The Telegraph 16/07/2018

https://www.telegraph.co.uk/news/2018/07/16/russian-woman-charged-washington-dc-spying-behalf-moscow/

A Russian woman charged in Washington DC with spying on behalf of Moscow

A Russian woman with ties to a US gun lobby has been arrested and charged with conspiracy to act as a spy for Moscow.

Maria Butina, 29, was arrested on Sunday at her home in Washington DC and appeared in federal court on Monday, before Magistrate Judge Deborah A. Robinson.

She was charged with conspiracy to act as an agent of the Russian Federation within the United States, without prior notification to the attorney general. The maximum penalty for conspiracy is five years in prison.

Butina's lawyer, Robert Neil Driscoll, told the judge that Butina's residence was searched by the FBI in April, that she had testified for eight hours before the Senate Intelligence Committee in a closed session several months ago.

He said her arrest was premature, adding: "we have been offering to cooperate with the government the entire time."

Butina did not speak during the brief hearing other than to state her name, and was held without bail. She will appear in court again on Wednesday for a preliminary hearing.

The charges against Butina come days after the justice department unveiled an indictment against 12 Russian intelligence officers for allegedly conspiring to hack Democrats in 2016.

They also came shortly after President Donald Trump cast doubt on Russian meddling in the 2016 election, in an extraordinary joint news conference with President Vladimir Putin.

Konstantin Kosachyov, head of the foreign affairs committee in Russia's upper house of parliament, said Butina's arrest was a Russophobic backlash against the positive talks between Mr Trump and Mr Putin in Helsinki.

"We had to expect something similar, unfortunately. The anti-Russian machine is resisting with all possible means," he said.

"This could be a reaction to the results of the summit by an out-of-control machine of American hawks and security officials."

Butina is accused of developing relationships with American politicians and a "gun rights organisation".

In the court documents FBI Special Agent Kevin Helson wrote that Butina was attempting to "establish a 'back channel' communication for representatives of the Government of Russia."

The affidavit also contains apparent communications, by direct message on Twitter, between Butina and the unnamed Russian official.

"Your political star has risen in the sky," the official told Butina, according to the Washington Post.

"Now it is important to rise to the zenith and not burn out (fall) prematurely."

They later discussed the "Russia-USA friendship society."

In 2017, Butina and the official attended the National Prayer Breakfast in Washington, the affidavit states.

Mr Driscoll said during the hearing that Butina was a student, and not a spy. He said that she had recently earned a master's degree in international relations from American University.

"Maria Butina is not an agent of the Russian Federation," he said.

"The substance of the charge in the complaint is overblown."

He said the government was attempting to make such actions as attending the prayer breakfast into "nefarious acts," when Butina was merely networking to develop relationships with Americans.

In February 2017 The Daily Beast reported that Butina had introduced herself as, variously, a Russian central bank staffer, a leading gun rights advocate, a "representative of the Russian Federation," a Washington, DC, graduate student, a journalist, and a connection between Team Trump and Russia.

Butina, a former Siberian furniture store owner, founded a Russian gun rights group called the Right to Bear Arms and according to the Washington Post became an assistant to Russian central banker and former senator Alexander Torshin, who is a lifetime member of the NRA.

Bristol Post 24/07/2018

https://www.bristolpost.co.uk/news/bristol-news/questions-raised-over-5g-links-1817191

Questions raised over 5G links to cancer as mobile network is tested in Bristol

New tests have found "clear evidence" linking mobile phone radiation to cancer in animal tests

A recent government study in the US has showed "clear evidence" of a link between exposure to mobile phone radiation and cancer in studies using rats.

A petition signed by more than 200 scientists and doctors warns 5G will "massively increase" the population's exposure to this kind of radiation.

As 5G is being tested in Bristol, our citizens are among the first in the world to be exposed to these new high levels of radiation. Leading to one important question.

Are we safe?

Bristol is one of the government's 5G test-beds, as the West of England Combined authority was given £5million to develop the tech and test it here.

Universities and businesses have been working to set up the country's first 5G network in Bristol, recently completing the first urban trials here.

But a recent article in the Observer re-examining claims that mobile phones can cause cancer has raised fresh questions around the safety of mobile phone radiation including the 5G mobile broadband technology being rolled out in Bristol.

What is 5G?

The new fifth generation mobile communication technology promises to deliver ultrafast, responsive mobile data connections that can handle massive amounts of data.

The government is keen for the UK to be one of the first countries to develop a 5G network. They say this will make possible things like autonomous vehicles; advanced manufacturing and robotics; augmented reality; smart agriculture; and smart homes and cities.

5G is not yet fully developed, with definitive standards only due to be agreed in 2019 and the new network rolled out over the following decade.

What's happening in Bristol?

Earlier this year the West of England Combined Authority received £5m from the Government to develop and test a 5G network in Bristol and Bath.

The 5G Smart Tourism project, funded by the Department for Digital, Culture Media and Sport (DCMS), began in March 2018 trailing the technology at tourist spots like M Shed, We The Curious and Millennium Square.

In June Margot James, the minister for DCMS came to Bristol and praised Bristol University's Smart Internet Lab, world-leaders in developing 5G technology, for completing the world's first 5G urban trial in Bristol's Millennium Square.

A recent city-wide trial of the new 5G-XHaul optical and wireless technologies also took place at the end of June.

What does the new study say?

The debate over weather mobile phone radiation can be harmful to humans has been raging for decades but two new US studies throw a new light on the argument.

On July 14 the Observer reported a peer review of two US government studies found "clear evidence" that mobile phone radiation causes cancer.

The studies, run by the US National Toxicology Program, represent one of the largest investigations into the health effects of mobile phone radiation.

Scientists exposed thousands of mice and rats to radiation equivalent to a mobile phone user's lifetime dose.

The peer review panel said the studies showed "clear evidence" exposure to mobile phone radiation caused heart tumours in male rats and "some evidence" that it also gave them brain tumours.

Scientists graded results as: "clear evidence," "some evidence," "equivocal evidence" and "no evidence".

The draft results of the studies found "equivocal" evidence for all results – meaning the authors felt the data wasn't clear enough to determine if the radiation caused cancer or not.

But when the peer review panel, made up of brain and heart pathologists, toxicologists, biostaticians, and engineers re-examined the data, they upgraded the findings to "clear evidence" and "some evidence".

What does this mean for Bristol?

The next great step in communications technology is the so-called 'internet of things'. This tech revolution will see devices like fridges, cars, buses, all communicating with each other and with human users over 5G, which is currently being tested in Bristol.

The government paid £16million to the University of Bristol, the University of Surrey and King's College London to develop, test and demonstrate the next generation of 5G technology.

But the Observer cites a petition signed by 236 experts warning that 5G will "massively increase" people's exposure to mobile phone radiation, which the US study shows may be dangerous.

In the petition scientists and doctors from 35 countries call for a moratorium on the roll-out of 5G until independent scientists have investigated the health risks.

"5G leads to massive increase of mandatory exposure to wireless radiation"
The petition explains: "5G technology is effective only over short distance. It is poorly transmitted through solid material. Many new antennas will be required and full-scale implementation will result in antennas every 10 to 12 houses in urban areas, thus massively increasing mandatory exposure."

The petition says there is evidence that mobile phone radiation can be harmful and calls for an impartial investigation into the risks before it is rolled out across the EU.

Statements from WECA and Bristol University

A Bristol University spokesperson said: "Wireless technologies have the opportunity to play a crucial role in the development of hyper-connected cities. Our research investigates ways in which mobile networks can help support communities and improve the lives of residents."

The West of England Combined Authority cited a recent statement from Public Health England, saying: "Some 5G technology will use similar frequencies to existing communications systems. Other 5G technology will work at higher frequencies, where the main change would be less penetration of radio waves through materials, for example walls.

"While a small increase in overall exposure to radio waves is possible when 5G is added to the existing network, the overall exposure is expected to remain low and well within the guidelines from the International Commission on Non-Ionizing Radiation Protection (ICNIRP)."

The Telegraph 02/08/2018

https://www.telegraph.co.uk/news/2018/08/02/russian-spy-found-working-us-embassy-moscow-decade/

'Russian spy' found working at US embassy in Moscow for more than a decade

A Russian woman worked as a spy inside the United States embassy in Moscow for over a decade before she was discovered, it has been reported.

The woman, who had her security clearance revoked in the summer of 2017, had access to the secret service's intranet and email systems, according to The Guardian.

Those files gave her a window into potentially confidential material, including the schedules of the president and vice-president.

Suspicion was aroused in 2016, during a routine check from the state department, when it emerged she was having regular and unauthorised meetings with members of the FSB, Russia's principle security agency.

A source told the paper that "her frequent contacts with the FSB gave her away ... numerous unsanctioned meetings and communications".

The secret service did not deny she was a mole, but downplayed her role, stating that standard security concerns mean foreign nationals are given duties "limited to translation, interpretation, cultural guidance, liaison and administrative support."

Congress was not informed of the breach, however - something which will certainly raise questions for the committees currently investigating Russian meddling in the 2016 election.

A source told the paper: "A government committee needs to investigate the secret service for hiding this breach.

"The US Congress is focusing on Russian hackers when it is possible that all of the information they needed to get into the system came from the internal breach in the secret service.

"Her activities of stealing and sharing information could shed more light on how the Russians were able to hack the 2016 presidential election office of the DNC [Democratic National Committee]."

The Guardian did not disclose her name or role, and said she had not responded to attempts to contact her.

Her cover was blown in 2016, during a routine five-yearly check on foreign nationals working for US embassies.

The state department's resident agents in charge alerted the secret service in January 2017, the paper claimed, and at least nine high-ranking secret service officials became aware of the findings.

The CIA and FBI were also aware, The Guardian reported. But the paper said the secret service failed to take the lead on the investigation, and as a result sources said she was able to continue working unchecked.

She then had her security clearance revoked shortly before a number of US embassy staff were expelled, on Kremlin orders, after Washington placed sanctions on Moscow. A total of 750 of the 1,200 employees left the embassy.

An intelligence source told the paper: "The secret service is trying to hide the breach by firing her.

"The damage was already done but the senior management of the secret service did not conduct any internal investigation to assess the damage and to see if [she] recruited any other employees to provide her more information.

"Only an intense investigation by an outside source can determine the damage she has done."

Foreign Policy 15/08/2018

https://foreignpolicy.com/2018/08/15/botched-cia-communications-system-helped-blow-cover-chinese-agents-intelligence/

Botched CIA Communications System Helped Blow Cover of Chinese Agents

The number of informants executed in the debacle is higher than initially thought.

It was considered one of the CIA's worst failures in decades: Over a two-year period starting in late 2010, Chinese authorities systematically dismantled the agency's network of agents across the country, executing dozens of suspected U.S. spies. But since then, a question has loomed over the entire debacle.

How were the Chinese able to roll up the network?

Now, nearly eight years later, it appears that the agency botched the communication system it used to interact with its sources, according to five current and former intelligence officials. The CIA had imported the system from its Middle East operations, where the online environment was considerably less hazardous, and apparently underestimated China's ability to penetrate it.

"The attitude was that we've got this, we're untouchable," said one of the officials who, like the others, declined to be named discussing sensitive information. The former official described the attitude of those in the agency who worked on China at the time as "invincible."

Other factors played a role as well, including China's alleged recruitment of former CIA officer Jerry Chun Shing Lee around the same time. Federal prosecutors indicted Lee earlier this year in connection with the affair.

But the penetration of the communication system seems to account for the speed and accuracy with which Chinese authorities moved against the CIA's China-based assets.

"You could tell the Chinese weren't guessing. The Ministry of State Security [which handles both foreign intelligence and domestic security] were always pulling in the right people," one of the officials said.

"When things started going bad, they went bad fast."

The former officials also said the real number of CIA assets and those in their orbit executed by China during the two-year period was around 30, though some sources spoke of higher figures. The New York Times, which first reported the story last year, put the number at "more than a dozen." All the CIA assets detained by Chinese intelligence around this time were eventually killed, the former officials said.

The CIA, FBI, and National Security Agency declined to comment for this story. The Chinese Embassy in Washington did not respond to requests for comment.

The Japan Times 26/08/2018

https://www.japantimes.co.jp/opinion/2018/08/26/commentary/world-commentary/populist-war-intelligence/#.W4hInCRKjIU

The populist war against intelligence

ATLANTA – Despite his seemingly limitless capacity for vindictiveness, it would be a mistake to interpret U.S. President Donald Trump's decision to withdraw the security clearance of former CIA Director John Brennan as only his latest vendetta for lese majeste. True, Brennan has all but labeled Trump and his behavior, including his Russian connections, a national security threat. But Trump's move is more than personal payback. As the most recent blow in his two-year-long attack on the intelligence community, his slap at Brennan is a harbinger of more to come as he tries to bring his espionage agencies to heel.

More ominously for the health of the democracies of the West, other populists are following Trump's example. In Europe, a variety of right-wing parties, having now found themselves in power, are taking on former government antagonists who have monitored and policed their extremism for decades.

In Austria, the country's populist leaders have been intimidating, muzzling and purging the country's intelligence services. In February, on orders from the populist interior minister, Austrian police raided the country's main intelligence agency — the very organization charged with monitoring right-wing extremism. (It should be recalled that the Freedom Party, the coalition partner in Austrian Chancellor Sebastian Kurz's government, was founded by ex-SS officers).

And what was the pretext for the raid and subsequent demotion of senior Austrian intelligence officials? That the agency was running an operation aimed at harming North Korea.

No doubt, Trump wishes that he could pull off such a stunt, and both halt the investigation of him led by Robert Mueller and bring to heel all of the U.S. intelligence agencies. A fan of strongman leaders who "get it done," Trump admires diktats and brazen contempt for legal processes. He almost certainly will pay even closer attention as the intelligence-fueled investigations into his presidential campaign's possible collusion with Moscow in 2016 close in on him.

It is this combination of self-interest and contempt for law that makes Trump's revocation of the Brennan's security clearance so troubling. The regulations governing clearances are straightforward: The president has the power to deny access to official secrets if someone is found to have compromised classified information or is at risk of doing so.

By all accounts, Brennan has done nothing of the sort. In fact, Trump admits that. Buried in the explanatory word salad that accompanied the revocation of Brennan's security clearance, the White House claimed that Brennan's "erratic" behavior was the cause. That accusation would be laughable if it wasn't so serious.

Trump has simply ignored the laws — including laws governing the intelligence services of the United States — that he swore faithfully to execute. Eleven former CIA directors and deputy directors, as well as 70 former senior CIA officers (including me), said as much earlier this month, criticizing the unprecedented revocation as political coercion and accusing Trump of misusing presidential powers, damaging national security, and threatening current and former officials' right of free speech. As if to underscore the point, White House spokespeople say that Trump intends to order more revocations, including a former national security adviser and deputy attorney general, as well as former directors of national intelligence, the CIA and the National Security Agency.

The hit list is no coincidence. Those in the cross hairs have overseen intelligence collection and analysis that informed the intelligence community's conclusion that Russia interfered in the 2016 election, including possible collusion with Trump's presidential campaign. With attacks on the intelligence and law enforcement communities playing well among his supporters, Trump could well double down on this demagoguery. But his willingness to use his presidential powers as a blatantly partisan political weapon breaks ground that no American should want him to tread.

The damage that has resulted from the raid in Austria shows why. While Austrian courts ultimately will determine the raid's legality, the effects are already clear. By stripping Austria's spies of their files, the raid has essentially put the intelligence service out of operation and raised doubts among allied intelligence services about the Austrians' reliability. Internal operations are dead in the water, as is intelligence sharing with European counterparts.

Washington is not Vienna, but the parallels deserve close attention nonetheless. Trump's attacks on the intelligence community and its former leaders are unprecedented, and it would be naive not to consider their impact, not only on the current intelligence leadership but also on the rank-and-file officers that do the difficult and often dangerous work of intelligence gathering and analysis. That is why it is so important to adhere to the laws that empower (and constrain) intelligence agencies and that underpin the political independence and integrity of their officers.

Events in Austria should be a warning. For democracies to thrive, government must be transparent as well as publicly accountable. When it comes to overseeing intelligence agencies pledged to protect their sources and methods, the challenges are obvious. But so, too, are the threats, including to the democratic process itself, when politicians violate rather than respect the rules that govern their intelligence services' integrity.

In the final analysis, Brennan isn't the only victim of Trump's unwarranted and vindictive action. So are all Americans when national leaders put their own interests above those of the country and corrupt the political system they are sworn to defend

Thanks Spectre!

Thank you to all our contributors

Chart Section Index

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2. M01 Schedule
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4. G06
5. XPA c, XPA2 m, r, p Schedules

[Chart updated]

September 2018

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Sep kHz, ID, ...	Oct kHz, ID, ...
		x	x				0315		E11	03	7850 25#	7850 25#
x	x	x	x	x	x	x	0400		V13	0	11430	15388
x	x	x	x	x			0400		S06	01A	15721 480	15721 480
			x				0430/0450/0510		E07A	01B	6788/ 7488/ 9322 741	6788/ 7488/ 9322 741
x	x	x	x	x	x	x	0440 (var)		HM02	01C	4761	4761 during Summertime
x							0450		E11	03	**5371** 41#	5371 41#
	x			x			0455		S11A	03	5358 32#	5358 32#
x	x	x	x	x	x	x	0500		V13	0	18040, 15388	15388, 11430
x		x		x		x	0500		HM01	18	5855/ 6165(?)	5855/ 6165(?)
	x		x		x		0500		HM01	18	11462	11462
x	x	x	x	x			0500		M14	01A	18041 952	18041 952
	x		x				0500/0520/0540		M12	01B	13903/13393/12203 932	15903/14493/13393 943
					x		0500/0520/0540		M12	01B	8176/ 9376/10476 134	6832/ 7932/ 9232 892
			x	x			0500/0600	1/3	E06	01A	14370/16265 354	
	x						0530		M01A	14	9441 751	9441 751
		x					0530		M01A	14	9129 498	9129 498
x	x	x	x	x	x	x	0540 (var)		HM02	01C		4761 during Wintertime
			x				0540		M01A	14	7692 536	7692 536
x	x	x	x	x	x	x	0600		V13	0	16134, 11430	15388, 11430
x				x			0600		E11	03	13470 18#, **check**	13470 18#
x		x		x		x	0600		HM01	18	10345/10860(?)	10345/10860(?)
	x		x		x		0600		HM01	18	14375	14375
	x						0600/0610		S06S	01A	15855/16485 438	15855/16485 438
					x	x	0600/0620/0640		E07	01B	9064/10264/11464 024	9064/10264/11464 024
x		x					0600/0620/0640		XPAc	01B	10359/11559/13559	10868/12168/13368
						x	0600/0700	2/4	M14	01A	6824/6990 382	6824/6990 382
			x	x			0600/0700	1/3	E06	01B		18425/20230 186
	x			x			0620		M01A	14	10233 354/458	10233 354/458
		x					0620		M01A	14	9421 135	9421 135
	x			x			0630		M01A	14	9447 143/792	9447 143/792
			x				0630		M01A	14	8111 902	8111 902

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Sep kHz, ID, ...	Oct kHz, ID, ...
x		x					0640		E11	03	12153 94#	12153 94#
	x		x				0645		E11	03	13424 51#	10800 51#
x		x		x		x	0657		HM01	18	9330	9330
	x		x		x		0657		HM01	18	13435	13435
	x			**x**			0700		E11	03	5082 57#	5082 57#
x	x	x	x	x	x	x	0700		V13	0	11430	15388, 11430
						x	0700		M01	01B	6510 463	6510 463
	x						0700/0710(15)		S06S	01A	5760/ 6930 374	5760/ 6930 374
					x	x	0700/0720/0740		E07	01B		15388, 11430
x		x					0700/0720/0740		XPA2	01B	search	12192/13892/14892
	x			x			0700/0720/0740		XPA2t	01B	17429/18629/20129	16284/18184/19584
					x	x	0710		E11	03	8102 49#	8102 49#
	x			x			0710		M01A	14	10651 297	10651 297
		x					0710		M01A	14	9175 146	9175 146
	x			x			**0715**		E11	03	9963 63#	9963 63#
	x						0720		M01A	14	9151 728	9151 728
	x						0730/0740		S06S	01A	7425/11560 11560/12140 427	7425/11560 11560/12140 427
		x					0730/0740		S06S	01A	11530/12140 745	11530/12140 745
	x		x				0735		S11A	03	13537 38#	13537 38#
x							0745		E11	03	10213 26#	10213 26#
		x		x			0745		E11	03	17410 34#	17410 34#
x		x		x		x	0757		HM01	18	9065	9065
	x		x		x		0757		HM01	18	11365	11365
x	x	x	x	x	x	x	0800		V13	0	15388	15388, 11430
x							0800	1/3	G06	01A	6810 329	6810 329
			x				0800/0810		E17Z	01A	14260/12930 674	14260/12930 674
	x						0800/0810		S06S	01A	11635/10420 352, check **cf. Fri 0830**	11635/10420 352, check
					x		0800/0810	1	S06S	01A	10350/ 8520 254	10350/ 8520 254
					x		0800/0820/0840		E07A	01B	11153/12153/13453 114	11484/12184/13384 413
					x		0800/0900		M14	01A		5430/ 5560 171
					x	x	0805		E11	03	**9200** 31#	9200 31#

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Sep kHz, ID, ...	Oct kHz, ID, ...
x			x				0820		E11	03	5371 43#, **check**	5371 43#
	x	x					0820		E11	03	12530 13#, **check**	12530 13#
		x					0820/0830		S06S	01A	8630/ 9255 471	8630/ 9255 471
x							0830/0840		S06S	01A	9220/ 8270 371	9220/ 8270 371
		x					0830/0840		S06S	01A	9082/ 9952 464	9082/ 9952 464
				x			0830/0840		S06S	01A	10855/11160 352, **check** **cf. Fri 0830**	10855/11160 352, check
			x	x			0830/0930		S06	01A	19035/15645 842	20312/16237 842
	x		x				0845		E11	03	10246 15#	10246 15#
x		x		x		x	0857		HM01	18	9240	9240
	x		x		x		0857		HM01	18	11462	11462
x		x					0900		E11	03	9399 53#, **check**	9399 53#
x							0900/0910		S06S	01A	14580/13165 872	14580/13165 872
				x			0900/0910		S06S	01A	5744/ 6524 624	5744/ 6524 624
x	x	x	x	x	x	x	0930		M14	01A	x16347 search 617, only 10.,	17458 617, only 10.,
		x	x				0930		E11	03	6807 27#	6807 27#
			x				0930/0940		S06S	01A	9081/10514 314	9081/10514 314
				x			0930/0940		S06S	01A	12140/13515 516, search	12140/13515 516, search
x		x		x		x	0957		HM01	18	5855/ 9155	5855/ 9155
	x		x		x		0957		HM01	18	12180	12180
	x			x			1000		E11	03	7840 30#	7840 30#
	x						1000/1010		S06S	01A	6410/ 7340 893	6410/ 7340 893
		x					1000/1010		S06S	01A	13365/14505 729	13365/14505 729
x			x				1015		S11A	03	x11493 47#, **search**	x11493 47#, **search**
	x			x			1020		S11A	03	9960 42#, **check**	9960 42#
x		x					1045		E11	03	7317 69#	7317 69#
	x						1100/1110		S06S	01A	6190/ 7230 754	6190/ 7230 754
	x			x			1100/1120/1140		E07	01B	18438/16338/14938 439	17421/15871/13931 481
x	x	x	x	x	x	x	1200		V13	0	9725	9725
		x					1200/1300	1/2	G06	01A	5903, 5422 938	5903, 5422 938

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Sep kHz, ID, ...	Oct kHz, ID, ...
x							1200/1210		S06S	01A	9145/11460 831	9145/11460 831
			x				1200/1210		S06S	01A	12415/14212 425	12415/14212 425
	x	x					1205		E11	03	7727 46#	7727 46#
x				x			1225		E11	03	20286 52#	20286 52#
x	x	x	x	x	x	x	1300		V13	0	9725	9725
			x				1300	1/3	G06	01A	4598 329	4598 329
			x		x		1300		E11	03	10302 58#	10302 58#
	x				x		1345		E11	03	13046 91#	13046 91#
x	x	x	x	x	**x**	x	1400		M08A	18	8096	8096
x		x					1400/1420/1440		M12	01B	16348/14484/13448 384	18369/17439/15839 648
				x	x		1400/1420/1440		XPA2r	01B		17462/16114/14828
					x		1500		M01	14	6260 463	6260 463
	x						1500/1510		S06S	01A	6464/ 7242 537	6464/ 7242 537
	x					x	1500/1520/1540		XPA2m	01B		16338/14538/13538
				x			1510/1530/1550		E07A	01B	10583/ 9383/ 8183 531	11424/10124/ 9124 411
			x				1530		E11	03	10330 26#	10330 26#
		x			x		1540		S11A	03	10800 56#	10800 56#
x	x	x	x	x	x	**x**	1557		HM01	18	11435	11435
	x	x					1600	1/3	M14		5740/ 6780 725	5740/ 6780 725
	x					x	1605		E11	03	6397 23#	6397 23#
		x				x	1625		E11	03	10448 97#	10448 97#
	x		x				1645		E11	03	10800 33#	10800 33#
				x		x	1650		E11	03	13873 92#	13873 92#
x							1700/1800	1/2	G06	01A	4645, 5362 938	4645, 5362 938
x	x	x	x	x	x	**x**	1657		HM01	18	11530	11530
		x				x	1700/1720/1740		E07	01B	x13527/12227/ 10627 526, search	x13376/12176/ 10776 317, search
			x				1700/1720/1740		M12	01B	14377/13461/12114 317	14377/13461/12114 317
				x			1700/1800	1/3	M14	01A	5945/ 5477 382	5945/ 5477 382
		x			x		1705		E11	03	10213 39#	10213 39#
		x			x		1730		E11	03	5844 40#	5844 40#

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Sep kHz, ID, ...	Oct kHz, ID, ...
			x				1730		E11	03	7864 41#	7864 41#
		x					1740/1840	3	E06	01A		2015: 13457/10204 634, search
x						x	1745		E11	03	13470 24#	13470 24#
	x		x				1800		M01	14	5475 463	5475 463
x	x	x	x	x	x	**x**	1757		HM01	18	11635	11635
	x					x	1800/1820/1840		XPA2m	01B	14538/13538/12138	
x							1810		M01B	14	3535, 4590 420	3535, 4590 420 (summer time)
	x						1820	2/4	M14	01A	5945 346	5945 346
			x				1830	2/4	G06	01A	5934 579	5934 579
			x				1832		M01B	14	3510, 4605 201	3510, 4605 201 (summer time)
	x			x			1840/1850/1900	1	F01	01A	13467/11084/ 9052	11136/ 9074/ 7723
		x			x		1850		S11A	03	10213 28#	10213 28#
x			x				1900		E11	03	7317 64#	7317 64#
x		x					1900/1920/1940		E07	01B	14584/13384/11584 535	11539/10139/ 8139 511
		x					1900/1920/1940		M12	01B	8047/ 6802/ 5788 463	8047/ 6802/ 5788 463
x			x				1900/1920/1940		M12	01B	10343/ 9264/ 8116 124	10343/ 9264/ 8116 124
				x	x		1900/1920/1940		XPA2r	01B	16167/14663/13923	
				x			1900/2000	1/3	S06	01A	9047/ 6769 483	
					x		1900/2000	1/3	S06	01A	4491/ 3815 263	
				x			1902		M01B	14	3625, 4941 153	3625, 4941 153 (summer time)
				x		x	1910		E11	03	8530 61#, **check**	8530 61#
x							1910		M01B	14		3625, 4440 153 (winter time)
x							1915		M01B	14	3645, 4465 771	3645, 4465 771 (summer time)
		x					1920	2/4	M14	01A	5464 537	5464 537
	x		x				1925		E11	03	10620 55#	10620 55#
				x			1930	2/4	G06	01A	5442 947	5442 947
			x				1932		M01B	14		3510, 4605 201 (winter time)
			x				1942		M01B	14	3715, 4570 477	3715, 4570 477 (summer time)
		x		x			1950/2010/2030		M12	01B	13375/11575/10275 352	10984/ 9384/ 8084 930
		x		x			1955		S11A	03	4016 37#	4016 37#

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Sep kHz, ID, ...	Oct kHz, ID, ...
	x		x				2000		M01	14	5020 463	5020 463
x	x	x	x	x	x	x	2000		M08A/ V02A	18	7554	7554
x							2000/2020/2040		M12	01B	10343/ 9264/ 8116 463	10343/ 9264/ 8116 463
		x					2000/2020/2040		E07A	01A	8144/ 6944/ 5744 147	8144/ 6944/ 5744 147
				x			2000/2100	1/3	S06	01A		9047/ 6769 483
					x		2000/2100	1/3	S06	01A		4491/ 3815 263
				x			2002		M01B	14		3625, 4941 153 (winter time)
					x	x	2005		E11	03	8186 36#	8186 36#
				x			2010		M01B	14	3520, 4585(4940) 582	3520, 4585(4940) 582 (summer time)
			x				2010/2030/2050		E07	01B	9387/ 7526/ 5884 358	7516/ 5836/ 4497 584
x							2015		M01B	14		3645, 4465 771 (winter time)
			x				2030	1/3	E06	01A	5186 891	5186 891
			x				2042		M01B	14		3715, 4570 477 (winter time)
		x				x	2050		S11A	03	5344 48#	5344 48#

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	Jul kHz, ID, ...	Aug kHz, ID, ...	Sep kHz, ID, ...	Oct kHz, ID, ...	Remarks
		x	x				0315		E11	03	8565 25#	8565 25#	7850 25#	7850 25#	since 01/14, last log 08/18
x							0450		E11	03	7469 41#	7469 41#	**5371** 41#	5371 41#	since 02/10, last log 08/18 2nd transmission Thu 1730z
	x			x			0455		S11A	03	5149 32#	5149 32#	5358 32#	5358 32#	since 09/14, last lof 08/18
x				x			0600		E11	03	**13873** 18#	13873 18#	13470 18#, **check**	13470 18#	since 07/15, last log 08/18
x		x					0640		E11	03	15800 94#	15800 94#	12153 94#	12153 94#	since 07/17, last log 08/18
	x		x				0645		E11	03	13424 51#	13424 51#	13424 51#	10800 51#	since 07/09, last log 08/18
	x			**x**			0700		E11	03	6849 57#	6849 57#	5082 57#	5082 57#	since 01/12, last log 08/18 until 01/18 Tue 1045z
					x	x	0710		E11	03	6480 49#	6480 49#	8102 49#	8102 49#	since 08/17, last log 08/18 07/15-04/17 Thu/Sat
	x			x			**0715**		E11	03	10429 63#	10429 63#	9963 63#	9963 63#	since 02/11, last log 08/18 until 12/17 0710z
	x		x				0735		S11A	03	17378 38#	17378 38#	13537 38#	13537 38#	since 01/18, last log 08/18 until 04/17 mon/wed at 0715z
x							0745		E11	03	9610 26#	9610 26#	10213 26#	10213 26#	since 03/14, last log 08/18 2nd transmission Thu 1530z
		x		x			0745		E11	03	15720 34#	15720 34#	17410 34#	17410 34#	since 06/17, last log 08/18
					x	x	0805		E11	03	9079 31#	9079 31#	**9200** 31#	9200 31#	since 07/14, last log 08/18
x			x				0820		E11	03	5082 43#	5082 43#	5371 43#, **check**	5371 43#	since 10/09, last log 08/18
	x	x					0820		E11	03	**17378** 13#	17378 13#	12530 13#, **check**	12530 13#	since 08/13, last log 08/18
	x		x				0845		E11	03	12202 15#	12202 15#	10246 15#	10246 15#	since 07/17, last log 08/18
x		x					0900		E11	03	**7439** 53#	7439 53#	9399 53#, **check**	9399 53#	since 10/05, last log 08/18
		x	x				0930		E11	03	6304 27#	6304 27#	6807 27#	6807 27#	since 02/14, last log 08/18
	x			x			1000		E11	03	12397 30#	12397 30#	7840 30#	7840 30#	since 11/16, last log 08/18
x			x				1015		S11A	03	10210 47#	10210 47#	x11493 47#, **search**	x11493 47#, **search**	since 04/10, last log 08/18
	x			x			1020		S11A	03	8800 42#	**6977** 42#	9960 42#, **check**	9960 42#	since 02/10, last log 08/18
x		x					1045		E11	03	8545 69#	8545 69#	7317 69#	7317 69#	since 03/18, last log 08/18
	x	x					1205		E11	03	6304 46#	6304 46#	7727 46#	7727 46#	since 03/10, last log 08/18 2nd transmission Mon 0450z
x				x			1225		E11	03	13537 52#	13537 52#	20286 52#	20286 52#	since 05/15, last log 08/18
			x		x		1300		E11	03	11581 58#	11581 58#	10302 58#	10302 58#	since 02/16, last log 08/18
	x				x		1345		E11	03	15825 91#	15825 91#	13046 91#	13046 91#	since 10/15, last log 08/18
			x				1530		E11	03	10356 26#	10356 26#	10330 26#	10330 26#	since 06/14, last log 08/18 2nd transmission Mon 0745z
		x			x		1540		S11A	03	11092 56#	11092 56#	10800 56#	10800 56#	since 03/16, last log 08/18
	x					x	1605		E11	03	4783 23#	4783 23#	6397 23#	6397 23#	since 11/15, last log 08/18
		x				x	1625		E11	03	15795 97#	15795 97#	10448 97#	10448 97#	since 02/15, last log 08/18
	x		x				1645		E11	03	14575 33#	14575 33#	10800 33#	10800 33#	since 06/17, last log 08/18
				x		x	1650		E11	03	14940 92#	14940 92#	13873 92#	13873 92#	since 05/16, last log 08/18
		x			x		1705		E11	03	14865 39#	14865 39#	10213 39#	10213 39#	since 02/14, last log 08/18
		x			x		1730		E11	03	7984 40#	7984 40#	5844 40#	5844 40#	since 06/16, last log 08/18
			x				1730		E11	03	8088 41#	8088 41#	7864 41#	7864 41#	since 03/10, last log 08/18 2nd transmission Mon 0450z
x						x	1745		E11	03	14410 24#	14410 24#	13470 24#	13470 24#	since 04/18, last log 08/18
		x			x		1850		S11A	03	12457 28#	12457 28#	10213 28#	10213 28#	since 06/17, last log 08/18
x			x				1900		E11	03	7600 64#	7600 64#	7317 64#	7317 64#	since 05/16, last log 08/18 until 10/17 mon/thu 0530z
				x		x	1910		E11	03	**9610** 61#	9610 61#	8530 61#, **check**	8530 61#	since 04/17, last log 08/18
	x		x				1925		E11	03	11581 55#	11581 55#	10620 55#	10620 55#	since 07/15, last log 08/18
		x		x			1955		S11A	03	4870 37#	4870 37#	4016 37#	4016 37#	since 02/14, last log 08/18
					x	x	2005		E11	03	9130 36#	9130 36#	8186 36#	8186 36#	since 03/14, last log 08/18 2nd transmission Thu 1530z
		x				x	2050		S11A	03	5737 48#	5737 48#	5344 48#	5344 48#	since 01/10, last log 08/18 until 12/17 tue/fri 0915z

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Jul kHz, ID, ...	Aug kHz, ID, ...	Sep kHz, ID, ...	Oct kHz, ID, ...	Remarks
x							0800	1/3	G06	01A	7320 329	7320 329	6810 329	6810 329	since 07/10, last log 07/18 repeat at Thu 1300Z
		x					1200/1300	1/2	G06	01A	6972, 7422 938	6972, 7422 938	5903, 5422 938	5903, 5422 938	since 10/14, last log 08/18 yearly changing frequencies + id
			x				1300	1/3	G06	01A	5890 329	5890 329	4598 329	4598 329	since 09/11, last log 07/18 repeat from Mon 0800Z
x							1700/1800	1/2	G06	01A	5287, 4945 938	5287, 4945 938	4645, 5362 938	4645, 5362 938	since 04/10, last log 07/18 yearly changing frequencies + id
			x				1830	2/4	G06	01A	6887 842	6887 842	5934 579	5934 579	since 05/01, last log 08/18 repeat at Fri 1930Z
				x			1930	2/4	G06	01A	5935 218	5935 218	5442 947	5442 947	since 04/01, last log 08/18 repeat from Thu 1830Z

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

Zulu > / Month v	XPA Sched c Monday/Wednesday H 00	H+20	H+40	XPA2 Sched m Various Sun/Tue H 00	H+20	H+40	XPA2 Sched p Monday/Wednesday H 00	H+20	H+40	XPA2 Sched r Various Fri/Sat H 00	H+20	H+40
	0600 / 0700z			1300,1500,1800,2000,2100			0700 / 0800z			1400, 1900, 2100		
Jan	9108	10908	12208	16138	14438	13438	11493	13393	14793	16167	14663	13923
Feb	11409	13509	14609	16338	14538	13538	12137	13937	14737	18667	17419	16212
Mar	11409	13509	14609	16138	14438	13438	12192	13892	14892	18667	17419	16212
Apr	10359	11559	13559	14538	13538	12138	11167	12167	13567	17462	16114	14824
May	10868	12168	13368	14538	13538	12138	11541	13441	14941	17462	16114	14824
June	11409	13509	14609	14738	13438	12138	10324	11524	13524	16167	14663	13923
July	11409	13509	14609	14538	13538	12138	11167	12167	13567	15967	13884	12217
Aug	10868	12168	13368	14738	13438	12138	10278	12178	13478	16167	14663	13923
Sept	10359	11559	13559	14538	13538	12138	10324	11524	13524	16167	14663	13923
Oct	10868	12168	13368	16338	14538	13538	12192	13892	14892	17462	16114	14828
Nov	11409	13509	14609	18328	16238	14438	13427	14627	15827	17462	16114	14828
Dec	7756	9056	10656	14538	13538	12138	10278	12178	13478	15967	13884	12217

Notes:

XPA c 0600/0700z schedule appears to be robust with reasonably strong signals into UK. Day changed, Sat to Wed 02/082017

XPA2 m Repetitive frequency triplets, appears robust, generally strong into UK
XPA2 p Schedule revised from 6 day variable to two day [Oct2017]. Sigs to UK variable.
XPA2 r Schedule appears robust; generally very strong signals to UK
XPA2 t Believed closed, listing removed 03/09/2018

Null Messaage: Long tones used in place of repeat character [15Hz below 0] whilst ending of 10140 is now variable. [First seen11/12/2017 XPA2 t].

Updated: 03/09/2018

SPECIAL MATTERS

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

Operation Jallaa: Nil Return

MESSAGES:

E: Tnks your input; hope all goes well…….P

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