

ENIGMA 2000 NEWSLETTER



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US Embassy Phnom Penh Cambodia and its antennae

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Number Station News

E07 English Man:- High levels of “full message” transmissions from schedules running in the UK evening time – including the Thursday 2010 UTC start, which came to life in April of this year after many months of “no message” format, likewise the weekend 0600 UTC start E07 SSB schedule has been sending “full message” traffic.

E06 English Man:- The Thursday 2030 UTC and Friday 2130 UTC schedules have continued to appear with the message of fifty-two 5F groups and a Decode Key of “149” first heard in the autumn of 2016, although messages with group counts of sixty-two and sixty-eight had been transmitted in May of this year. Likewise the related Thursday 1830 UTC and Friday 1930 UTC G06 German YL schedules in July and August have continued to show up with the same “149....52” message, in the German language, of course. An E06 with the call “832” appeared on Saturday 12-August at 1100 UTC with a repeat on the following day.

Loggings of HM01 from Cuba have been few and far between over the last few months, just a few occasions on the days when 9,330 and 9,065 kHz are used in the UK morning time have given readable signals.

RAF VOLMET - Brief Appearance on 8005kHz

Not a number station but possibly interesting:- The artist formerly known as “RAF VOLMET” showed up on a new frequency for just a short time at the start of August:-

01-Aug-17, Tuesday:- 1912 UTC, 8005 kHz, while idly tuning around the short-waves, as you do, the S-meter swung upwards as the frequency readout passed the bottom of the 8 MHz band under the influence of a strong SSB signal which when tuned in turned out to be the same station which can be heard on 5450 kHz with weather information for various airfields. At one time it used a female voice speaking slowly and clearly and identifying with the “Royal Air Force” call at intervals. The style of operation changed to a different YL voice some time ago with a much more rapid delivery of the information. So fast it is difficult to imagine that Biggles and Ginger could write down the relevant details if they needed to - slow down dear, you'll do yourself a mischief - and the identification is also spoken just as fast, sounds like “This is One Time (something) Military Broadcast”.

It seemed like this was a new frequency added to the several others which this station uses, something of interest to those of us who follow matters both meteorological and aeronautical, but there was no sign of it on the next occasion 8005 kHz was dialed up, on Thursday 03-August, and has not been heard since on this frequency. Bit of a puzzle as to what was going on there.

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

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

Format Change

A new format for the M01 scheduled messages is being used with increasing frequency of late, although it has been seen on the odd occasion previously. This format varies from that traditionally used in that the decode key & group count are separated by an oblique stroke & the use of the double-dash is omitted. In addition, the DK/GC is sent once only at the end of the message.

Here are examples of both formats currently in use:-

M01 4905kHz 2000z 22 August 2017 025 (R4m) 547 547 30 30 == 18388 30142 37545 99367 46684 27679 19261 57765 23521 71709 58697 73290 34872 48199 61382 12195 34017 92382 40000 61012 15808 87755 87242 78650 89445 90294 78378 99236 70967 67271 == 547 547 30 30 000	M01 5280kHz 1800z 24 August 2017 025 (R4m) 703/30 703/30 06467 86120 31172 65306 82495 03243 19669 40172 50489 98145 90975 16286 95646 75451 61553 54895 52728 72491 24980 04677 17065 05015 10695 92747 00394 90672 05675 86876 09387 09570 703/30 000
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Old Format - Still in use for the majority of transmissions

New Format - Being used increasingly in recent months

July 2017:

4905	2000z	04 Jul	'025' 218 30 ==	24751...	...LG 244 077 ==	Strong, slow. Started well, then erratic grps	BR/CB	TUE
	2000z	06 Jul	'025' 921/30	06733...	...LG 45246	Good, slow. DK/GC sent as 921/30	CB	THU
	2000z	11 Jul	'025' 151 30 ==	67518...	...LG 04598 ==	Strong, slow. Steady CW. Two errors noted	CB	TUE
	2000z	13 Jul	'025' 864 30 ==	55045...	...LG 80124 ==	Strong, fast. Perfect CW - no errors noted	CB	THU
	2001z	18 Jul	'025' 129/30	52306...	...LG 74987	Strong, slow. Good CW. No errors. '250' call?	CB	TUE
	2000z	20 Jul	'025' 511 30 ==	88262...	...LG 18081 ==	Strong, fast. Excellent CW. No errors	BR	THU
	2000z	25 Jul	'025' 147 30 ==	06651...	...LG 98476 ==	Strong, slow. Excellent CW. One error noted	CB	TUE
	2000z	27 Jul	'025' 227/30	04325...	...LG 39834	Good, slow. DK/GC sent as 227/30	BR	THU
5280	1800z	04 Jul	'025' 797 30 ==	67430...	...LG ==	Fair > Weak, slow. Poor copy	CB	TUE
	1800z	06 Jul	'025' 129 30 ==	18624...	...LG 36837 ==	Ended 1812z Via Silec, Poland SDR	E.SMITH	THU
	1800z	11 Jul	'025' 531 30 ==	. 65LG 92224 ==	Weak, slow. Good, steady CW. Difficult copy	BR	TUE
	1800z	13 Jul	'025' 763 30 ==			Very weak. Mostly unreadable	BR	THU
	1800z	20 Jul				Very Weak. No useful copy	BR	THU
	1800z	27 Jul	'025' 215 30 ==	1 . .45...	...LG 86631 ==	Weak, fast. Poor copy throughout msg	BR	THU

6435	1500z	01 Jul	'025' 547 30 ==	V.fast Unusable due to weak signal, high noise & XJT QRM	BR	SAT
	1500z	08 Jul	'025' 529 30 ==	53631... ..LG 26657 == Weak/Fair, fast. Steady CW. No noted errors	BR/E.SMITH	SAT
	1500z	22 Jul	'025' 455 30 ==	97866... ..LG 36016 == GRp29 sent as 4-fig. MCW	E.SMITH	SAT
	1500z	29 Jul	'025' 679 30 ==	93502... ..LG == Weak. Fast. Poor copy at times	BR	SAT
6780	0700z	02 Jul	'025' 303 30 ==	60248... ..LG 31089 == Good, fast. Good CW. One error noted	BR	SUN
	0700z	09 Jul	'025' 149/30	23018... ..LG 63173 Fair/Good, slow. DG/CG sent as 149/30	BR	SUN
	0700z	16 Jul	'025' 521 30 ==	18090... ..LG 03077 == Fair, very fast. Numerous errors noted	BR/CB	SUN
	0700z	23 Jul	'025' 903 30 ==	61030... ..LG . . .84 == Fair, med-fast. Errors noted. XJT QRM	BR	SUN
	0700z	30 Jul	'025' 987 30 ==	04230... ..LG 15 .83 == Weak/Fair, med-fast. Poor copy at times	BR	SUN

August 2017:

4905	1959z	01 Aug	'025' 139 30 ==	51093... ..LG 75288 == Strong, med-fast. Numerous errors noted	CB	TUE
	2000z	03 Aug	'025' 512 30 ==	79156... ..LG 22244 == Strong, fast. Good, steady CW. No errors	BR/CB	THU
	2000z	08 Aug	'025' 512 30 ==	09129... ..LG 16788 == Strong, med-fast. Error noted grp30	CB	TUE
	2000z	10 Aug	'025' 191 30 ==	88879... ..LG 72157 == Strong, fast. Excellent CW. Error on grp29	BR	THU
	2000z	15 Aug	'025' 518 30 ==	04577... ..LG 75905 == Strong, fast. Good, steady CW. Error grp13	CB	TUE
	2000z	17 Aug	'025' 979 30	48789... ..LG 07529 == Strong, fast from grp11. 2 grps sent once only	BR/CB	THU
	2000z	22 Aug	'025' 547 30 ==	18388... ..LG 67271 == Good, fast. Excellent CW. No errors	BR	TUE
	2000z	24 Aug	'025' 549/30	77173... ..LG 42639 Good, slow. Use of oblique. Errors noted	CB	THU
	2000z	29 Aug	'025' 856 30 ==	84303... ..LG 59624 == Strong, fast. Error noted grp08 6389 63891	BR	TUE
	2000z	31 Aug	'025' 157 30 ==	52723... ..LG 88791 == Strong, slow. Numerous errors including grp01	CB	THU
5280	1800z	01 Aug	'025' 737 30 ==	86008... ..LG == Fair, med-fast. Poor copy. Heavy digital QRM	BR	TUE
	1800z	03 Aug	'025' 183 30 ==	80797... ..LG 92826 == Fair, fast. Good, steady CW. Errors noted	CB/E.SMITH	THU
	1800z	08 Aug	'025' 460 30 ==	91343... ..LG 21569 == Fair, med-fast. Readable / noisy. One error	BR	TUE
	1800z	10 Aug	'025' 178 30 ==	28856... ..LG 5446 == Fair, fast. Several errors. Jumbled last 3 grps	BR	THU
	1800z	17 Aug		NRH - No trace	BR/CB	THU
	1800z	22 Aug	'025' 701 30 ==	03884... ..LG 16406 == Weak, fast. Two errors - repeat grp 4-figs only	BR	TUE
	1800z	24 Aug	'025' 703/30	06467... ..LG 09570 Fair, slow. Use of oblique in DK/GC	BR/CB	THU
	1800z	29 Aug	'025' 448 30 ==	50676... ..LG . 5644 == Fair, fast. Copy difficult in places.	BR	TUE
	1800z	31 Aug	'025' 903 30 ==	84219... ..LG 01307 Fair, slow. Numerous errors noted	CB	THU
6435	1500z	05 Aug	'025' 460 30 ==	03200... ..LG 06620 == Fair, med-fast. Numerous errors noted	BR	SAT
	1500z	12 Aug	'025' 163/30	66852... ..LG 86892 == Use of Oblique in this transmission MCW	E.SMITH	SAT
	1502z	19 Aug	'025' 189 30LG 80594 == Weak, fast. Grp01 missed due to QRN	BR	SAT
	1500z	26 Aug	'025' 901 30 ==	94647... ..LG 94390 == Weak, fast. Poor copy	BR/CB	SAT
6780	0700z	06 Aug	'025' 183 30 ==	53951... ..LG 28318 == Start call 183, end call 173. Error in end GC	AB	SUN
	0700z	20 Aug	'025' 519/30	45772... ..LG 18131 == Weak-Fair/slow. Used oblique for DK/GC	BR	SUN
	0700z	26 Aug	'025' 154 30 ==	37706... ..LG 56556 == Weak, fast. Poor copy	AB/BR/CB	SUN

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

Logs from Edd Smith

Edd, (E.SMITH) managed to log a large quantity of M01a transmissions between the 03 July & 20 July, with a burst of activity particularly noted between 11 - 20 July for which he has supplied high quality logs backed by recordings.

This is the first time we have been able to study this quantity of M01a logs, which are of particular interest as they were all gathered within a short period of time. For this reason, we are presenting the logs complete, in chronological order, which as well as being a record of recent activity, also presents an opportunity to preserve an excellent set of examples of M01a.

This unusual level of activity happens to coincide with a planned joint exercise carried out in the Baltic Sea between Chinese & Russian naval forces. Edd has previously suggested that these M01a transmissions may originate from Kaliningrad & this increased activity in transmissions - which has also been noted by Jean-Paul (JPL) with the Chinese M89 stations, does go a long way to support this.

Edd is also monitoring these transmissions via an on-line SDR at Silec at excellent strength - Silec is only 87Km (55 miles), from Kaliningrad.

This link to a Bloomberg article supplied by Edd Smith.

<https://www.bloomberg.com/news/articles/2017-07-25/russia-and-china-hold-first-joint-naval-exercises-in-baltic-sea>

Of particular interest are the two messages sent on 5347kHz on 13 July, which appear to be blatantly false, although some attempt appears to have been made with the second of the two messages.

It is believed that these transmissions are two-way exchanges as pauses, unfinished groups & repeats or part repeats are usually found within these transmissions. These exchanges are undoubtedly operated in duplex mode, with the remote station on a different frequency, although to date none of these remote stations have been logged.

As an example, the 5473kHz transmission on 20 July starts with 111 999 followed by 999 & a further 999 with a pause between each of the phrases. Then follows a 10 group message, a further pause before sending 111 020 = 03 09. The operator then proceeds to send groups 03 to 09 of the previously sent message, which would indicate that following the sending of the message & during the pause the remote station requested a repeat sending of those groups.

Here are the two phrases discussed above;

303 10 = 95021 33034 77079 18438 39358 83897 02907 39909 43897 95481 = 303 10 000

111 020 = 03 09 = 77079 18438 39358 83897 02907 39909 43897 000 [Note this is a repeat of grps 03-09]

The blank lines in the logs represent a pause of variable length, typically ranging from around 10 to 60 seconds. Edd has done an excellent job of capturing & recording these transmissions - which is very much appreciated.

M01a Logs

4575	0837 (IP) - 0844z	03 Jul	543 65953.... etc. (IP) 543 65953 x2 543 x3 65953 x2 111 999 208 15 = 91149 40761 68862 17040 29963 32853 33674 71296 40083 89540 40018 59721 76818 22363 31280 = 208 15 111 4 0 0 83 111 911 49 (R2) 111 000	Via Silec, Poland SDR	ICW	E.SMITH	MON
5789	0942 (IP) - 0944z	05 Jul	635 (x3) 72380 (x2) ... etc. 635 (x3) 72380 (x2) (R3) 635 (x3) 000	Via Silec, Poland SDR	CW	E.SMITH	WED
5216	1206 (IP) - 1216z	07 Jul	943 (x3) 111 (x3) (R11).... etc. Fast 943 (x3) 111 (x3) (R11) 333 111 999 (R2) 217 10 = 24906 41324 09601 65740 96324 98564 01890 41324 19840 12498 = 217 10 (Single grps) 111 000	Via Silec, Poland SDR Faster WPM than usual	CW	E.SMITH	FRI
5182	0906 (IP) - 0912z	11 Jul	781 333 00.... etc. 781 333 00 111 333 03 111 333 10 111 000 (x4)	Via Silec, Poland SDR	CW	E.SMITH	TUE
5182	0924 (IP) - 0949z	11 Jul	862 (x5) 970 60.... etc. 862 (x5) 970 60 862 (x5) 970 60 970 60 862 (x4) 970 60 (x2) 862 (x2) 852 862 (x2) 970 60 (x2) 862 (x7) 985 70 986 70 .. Key down/Test tone. <i>Other Operator calling 781 [for 30 secs]... (At higher pitch)</i> Message continued over 'Other Ops call... 866 862 (x5) 852 973 40 (x3) 862 861 862 862 7340 973 40 862 (x4) 973 40 (x2) 862 (x2) 862 (x3) 973 4	Via Silec, Poland SDR	CW	E.SMITH	TUE

62862 862 852 862 97340
973 0

862 (x5)
98150 (x3)
862 (x3) 981 50 (x3)
862 (x5) 981 50 (x3)
862 852 852
98150 (x3)
862 (x2) 852 8
333 (x5)
862 (x4) 98150 (x2) 9850
862 (x2) 85 862 862 98150
862 (x2) 961862 862 852
862 (x4)
862 852
862 (x4)
111

111

111
333 10 (x2)

111 333 04
111 000

Two short key down test tones

5182	1051 (IP) - 1059z	11 Jul	781 (x3) 3180 1 ... etc. 781 (x3) 3180 1 3180 1 (Rx9) 781 (x3) 31603 31603 7 817 (x3) 81316 033 180 17 817 (x2) 81316 033 160 3 781 (x3) 31603 31603 (Rx2) (Monitored until 1230z. NRH)	Via Silec, Poland SDR	CW	E.SMITH	TUE
5080	0916 (IP) - 0925z	12 Jul	942 (x3) 629 40 (x2).... etc. 942 (x3) 629 40 (x2) Key down/Test tones 942 (x3) 620 50 (x2) (Rx3) 942 (x2) 5 123456789 111 00000	Via Silec, Poland SDR	CW	E.SMITH	WED
4849	1034 (IP) - 1037z	12 Jul	... 4 111 999.... etc. .. 4 111 999 178 10 = 10984 01654 86490 63249 80403 20198 65312 96845 10984 65310 = 178 10 (Single grps) 111 000	Via Silec, Poland SDR	CW	E.SMITH	WED
4679	1136 (IP) - 1341z	13 Jul	120 (x3) . etc. 120 (x3) 120 (x3) 96744 (x2) (Rx9)	Via Silec, Poland SDR	CW	E.SMITH	THU
4922	1206 (IP) - 1211z	13 Jul	333 01 etc. 333 01 020 020 4 (x2)	Via Silec, Poland SDR	CW	E.SMITH	THU

			333 030 4				
			333				
			333				
			333 03 (Rx3)				
			111 000				
5347	1328 (IP) - 1332z	13 Jul	111 999 etc.	Via Silec, Poland SDR	CW	E.SMITH	THU
			111 999				
			010 25 = 12553 12798 34556 23235 45087 75432 12345 12345 45087 23432 (Single grps) 45677 34464 97532 12345 04541 36557 96544 56798 97532 23445 34876 04645 75432 12345 45677 = 010 25 000				
			111 333 444 00 = 010 25 000				
5347	1415 (IP) - 1426z	13 Jul	134 (x3) 20 160 (x2) etc.	Via Silec, Poland SDR	CW	E.SMITH	THU
			134 (x3) 20 160 (x2)				
			222 12				
			111 999				
			011 25 = 36557 96544 04541 12685 57669 45677 34464 97532 34876 04645 (Single grps) 45677 34464 87777 34876 04645 75432 12345 45087 45706 89750 34464 97532 12345 85674 36557 = 011 25 000				
5405	0537 (IP) - 0537z	15 Jul	...101 etc.	Via Silec, Poland SDR	CW	E.SMITH	SAT
			..101				
			476 (x3) 111				
			51101 (x2) 0537z				
5405	0539 - 0534z	15 Jul	111 999 etc.	Via Silec, Poland SDR	CW	E.SMITH	SAT
			111 999				
			325 50 = 40502 18033 56881 76486 48674 94823 70586 32757 00975 98547 49418 40161 45514 49497 87650 33196 16083 22730 29623 29902 41121 72360 03801 43537 13447 22398 86332 78392 58193 54207 37832 10972 90310 04761 35588 05080 98991 73664 80509 44796 78141 51909 69189 70835 96359 63535 63401 91473 59342 15520 = 325 50 111 000				
4489	0832 (IP) - 0855z	18 Jul	...9440 ... etc.	Via Silec, Poland SDR	CW	E.SMITH	TUE
	(In progress)		... 9440 66 44 0 6 6 3 0 930 930 9 4				
			111				
			[Long Pause]				
			333 0 0				
			333 0 0				
			333 318				
			333 318				
			333				
			[Long Pause]				
			333 45726 45726 (x2) 111				
			[Long Pause]				
			111 999				

396 50 = 48814 90796 71673 57122 94139 12525 12798 17030 32067 89852
38489 14120 33439 76530 85437 78684 48333 29852 71194 57807
84215 15906 28211 47727 69561 59650 84743 37982 50957 54847
55185 52943 18570 58334 17294 37888 72053 68268 91772 25612
50488 64270 26644 15303 79682 23192 10600 11986 39176 30964 =
396 50 000

333

333

111 333 21 = 84215 000

000

5102	0838 (IP) - 0900z	18 Jul	96052 (x2) ... etc. 96052 (x2) 469 (x3) 9 469 (x3) 96052 (x2) 469 (x3) 96720 (x3) (Rx3) 469 (x3) 96770 96720 96720 (Long Interval) 469 (x3) 98957 98952 469 (x3) 98952 (x2) 469 (x3) 5 * 98952 98952 98952 469 (x3) 98957 98952 (Long Interval) 469 (x3) 95952 (x2) (Rx3) (Long Interval) 469 (x3) 96069 (x2) (Rx3) 469 (x3) 96069	Via Silec, Poland SDR	CW	E.SMITH	TUE
4579	0849 (IP) - 0853z	18 Jul	712 (x3) ... etc. 712 (x3) 34208 (x2) 712 712 (x3) 34861 (x3) 712 712 (x2) 34861 (x2)	Via Silec, Poland SDR	CW	E.SMITH	TUE
4285	0925 - 0950z	18 Jul	97712 (x2) ... etc. 97712 (x2) 333 97712 97712 333 97712 97712 97712 333 97712 97712 333 97712 040 02 [Long Pause] 23823 333 04 333 04 111 999 395 50 = 27707 10970 12546 12391 84829 10233 40115 98093 34992 30311 88316 47057 82853 95112 38990 44141 40707 66760 22722 63476 39836 13202 26146 76039 21477 24772 29955 52872 45887 75561 22568 16706 70275 93728 35063 58383 49535 49934 7650 86945 53800 39241 38741 42659 98944 80632 89842 22531 87109 83138 = 396 50 000	Via Silec, Poland SDR	CW	E.SMITH	TUE
4528	0939 - 1005z	18 Jul	29631 ... etc.	Via Silec, Poland SDR	CW	E.SMITH	TUE.

29631 000
111 221 01 = 29631 000

000 *[0940z Key down/test tone - Continued 1003z]*

869 66428

869 (x3) 66428 (x2) (Rx3)

869 869

111

4183	1006 (IP) - 1012z	18 Jul	.. 146 ... etc.	Via Silec, Poland SDR	CW	E.SMITH	TUE
	(In progress)		.. 146 76222 44683 30695 39367 14455 43683 25001 30976 47530 55979 50927 13830 34996 77496 66420 99859 80687 52855 69694 39009 69985 70990 70557 76994 66666 87349 23265 51554 75749 32375 53851 93126 38055 38154 14899 88808 61542 /396 50 000				

5043	1219 (IP) - 1317z	18 Jul	281 30 = etc.	Via Silec, Poland SDR	CW	E.SMITH	TUE
			281 30 = 28878 85570 12290 52500 42100 49662 60860 29022 40595 62210 98656 39948 92650 52148 78421 64724 59011 89443 64859 85320 93629 41419 63864 48365 64711 63043 14998 44682 14194 56537 = 281 30 000				
	(1225z)		111 333 39948				
	(1251z)		368 (x3) 42971 (x2) (Rx4) 368 333 111 <i>[Long Pause]</i> 333 00 333 00 111 999 111 999 111 999 000				

4627	0634 (IP) - 0723z	19 Jul	..5 etc.	Via Silec, Poland SDR	CW	E.SMITH	WED
	(In progress)....		..5 583 (x7) 7718 0 7718 583 (x4) 7718 0 <i>(Ends 0635z)</i>				
	(0714z)		<i>[Key down/Test tone]</i> 583 (x3) 77010 (x2) (Rx3) 583 (x2) 588 111 999 462 50 = 76155 95183 51150 91740 75662 39612 82464 53484 51798 60579 35639 81717 65621 28157 55862 48717 77792 45194 37231 71953 65857 61335 93238 61129 24675 19124 58093 79722 97085 81942 34937 52595 30855 98570 95887 84775 64795 64487 28307 94026 17844 85864 94121 95518 17203 75000 15699 5*572 23846 57107 = 462 50 000				(* was a short 'dit')

4579	0644 (IP) - 0648z	19 Jul	... 72780 etc.	Via Silec, Poland SDR	CW	E.SMITH	WED
	(In progress)....		72780 38492 14144 28351 97654 11744 74834 61213 52285 42860 2752 96849 21430 33648 70524 92308 57811 55958 84746 65060 25110 39470 42059 73991 25362 37577 33209 37326 = 723 50 000				

4162	1412 (IP) - 1415z	19 Jul	111 333 0 1 etc. 111 333 0 1 111 999 55 111 000		Via Silec, Poland SDR	CW	E.SMITH	WED
4879	0910 (IP) - 0838z	20 Jul	... 333 28111 etc. Fast .. 333 28811 28811 333 (x3) 28811 (x2) <i>[Long Pause]</i> 333 27331 27331 333 27331 27 <i>[Long Pause]</i> 333 27391 27391 (Rx3) <i>[Long Pause]</i> 333 28561 28561 (Rx3) 333 333 333 111 <i>[Long Pause]</i> 111 999 <i>[Long Pause]</i> 111 28831 28831 (Rx2) 111 111 <i>[Long Pause]</i> 111 999 470 10 = 87046 31854 06510 32498 10657 40695 16845 03249 84031 48901 = 470 111 000		Via Silec, Poland SDR	CW	E.SMITH	THU
5473	1051 (IP) - 1057z	20 Jul	111 999.. etc. 111 999 999 999 303 10 = 95021 33034 77079 18438 39358 83897 02907 39909 43897 95481 = 303 10 000 111 020 = 03 09 = 77079 18438 39358 83897 02907 39909 43897 000 <i>[Note this is a repeat of grps 03-09]</i>		Via Silec, Poland SDR	CW	E.SMITH	THU
5049	1152 (IP) - 1153z	20 Jul	35498... etc. 35498 40124 89406 45168 = 562 10 111 000		Via Silec, Poland SDR	CW	E.SMITH	THU

Edd has also supplied a large number of other M01a logs for July & August which unfortunately, for space reasons we have been unable to include.

M01b

July 2017:

4895//5340	2009 - 2026z	14 Jul	'467' 721 32 = 45230 79827 08724 58700 000]			MCW	E.SMITH	FRI
5065//5805	1940 - 1957z	20 Jul	'936' 721 32 = 45230 79827..... 08724 58700 000 Fair//Strong			MCW	BR	THU
	1942 - 1958z	27 Jul	'936' 721 32 = 45230 79827..... 08724 58700 000 Fair//Good			MCW	BR	THU
5075//5465	1902 - 1919z	14 Jul	'336' 721 32 = 45230 79827 08724 58700 000			MCW	E.SMITH	FRI
5095//5760	1833 - 1850z	06 Jul	'815' 721 32 = 45230 79827 08724 58700 000	[Note 1]		MCW	E.SMITH	THU

	1832 - 1848z	20 Jul	'815' 721 32 = 45230 79827..... 08724 58700 000 Fair//NRH - Strong XJT	BR	THU
	1831 - 1847z	27 Jul	'815' 721 32 = 45230 79827..... 08724 58700 000 Fair//NRH - Strong XJT	BR	THU
5340	2009 - 20206z	28 Jul	'467' 721 32 =	Fair	tiNG FRI
			[Note 1] 1828 - 1832z Win XP error sound before transmission on 5760kHz	E.SMITH	

August 2017:

5065//5805	1940 - 1858z	03 Aug	'936' 173 31 = 88699 23712 19509 93587 000 Fair//Strong	MCW	BR	THU
	1940 - 1957z	10 Aug	'936' 173 31 = 88699 23712 19509 93587 000 Strong//Good	MCW	BR	THU
5095/5760	1832 - 1849z	03 Aug	'815' 173 31 = 88699 23712 19509 93587 000 5760kHz NRH - Strong XJT	E.SMITH	THU	
	1840 - 1857z	10 Aug	'815' 173 31 = 88699 23712 19509 93587 000 Strong// NRH - Strong XJT	BR	THU	

M01b 5095//5760kHz 1833z 06 Jul 2017 815 (R4m) 721 721 32 32 == 45230 79827 18857 26009 30546 39929 14790 65620 73218 40084 58290 94086 23750 52090 54519 01704 19689 73341 98043 00550 52794 25400 49603 28582 47764 16829 77741 28021 99521 98569 08724 58700 == 721 721 32 32 000 <p style="text-align: right;"><i>Courtesy E.SMITH</i></p>	M01b 5065//5805kHz 1940z 03 Aug 2017 936 (R4m) 173 173 31 31 == 88699 23712 83202 18259 78697 82377 62586 65026 89783 55704 55849 52093 86612 58860 11168 33217 13098 77325 19603 61446 27069 90186 33191 14222 88315 56004 26689 39367 41847 19509 93587 == 173 173 31 31 000 <p style="text-align: right;"><i>Courtesy BR</i></p>
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M08a XVIII ICW / CW, some MCW

Our M08a report courtesy of AnonUS in America.

M08a has continued to appear but unfortunately has been very sporadic. The beginning of August started strongly with transmissions heard for the first 5 days leading to the hope that things were returning to normal, unfortunately nothing was heard for the rest of the month.

The transmitters are still brought online most days with the characteristic hum being of note. When heard the transmissions were coming up approximately 5 minutes before the start of the hour.

July 2017:

7554	2000z	18 Jul	[58622 - - - - -]	Up at 1957z with 1st call-up R5, very weak	AnonUS	TUE
	2000z	20 Jul	[68732 72251 84582]		AnonUS	THU
8096	1400z	19 Jul	[- - - - -]	Up late in progress Very Weak	AnonUS	WED
	1400z	20 Jul	[54472 65122 70142]	Very Weak	AnonUS	THU
	1400z	21 Jul	[74482 86712 00141]	Very Weak	AnonUS	FRI
	1400z	26 Jul	[63531 86052 00381]	Very Weak	AnonUS	WED
	1400z	27 Jul	[- - - - -]	Very Weak	AnonUS	THU
	1400z	28 Jul	[46852 58271 62612]	Very Weak	AnonUS	FRI
	1400z	31 Jul	[- - - - -]	Very Weak	AnonUS	MON

August 2017:

7554	2000z	01 Aug	[- - - - -]	Present but too weak to copy	AnonUS	TUE
	2000z	03 Aug	[66682 78011 53251]		AnonUS	THU
8096	1400z	01 Aug	[85251 08682 22012]		AnonUS	TUE
	1400z	02 Aug	[53841 72381 85622]		AnonUS	WED
	1400z	03 Aug	[- - - - -]	Up late in progress	AnonUS	THU
	1400z	04 Aug	[30711 43132 56561]		AnonUS	FRI
8135	2300z	01 Aug	[33102 46421 60752]		AnonUS	TUE
	2300z	08 Aug		HM01 present but no Morse	AnonUS	TUE

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

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

European M12 Logs

July 2017:	New scheds in bold type					
8047/6802/5788	1900/20/40z	05 Jul	463 1 (6535 133) 70890 79914....	BR	WED	
	1900/20/40z	12 Jul	463 1 (8186 141) 56015 86118....	BR	WED	
	1900/20/40z	19 Jul	463 1 (7031 143) 07013 39734....	BR	WED	
	1900/20/40z	26 Jul	463 1 (2548 136) 15267 05665 03712 87739 000 000 (Via Silec Pl)	E.SMITH	WED	
9176/7931/6904	1700/20/40z	03 Jul	257 1 (7850 111) 04101 08960....	BR	MON	
	1700/20/40z	05 Jul	257 1 (4925 105) 23403 53603....	BR	WED	

	1800/20/40z	05 Jul	257 1 (6077 135)	21956 46081....		BR	WED
	1700/20/40z	10 Jul	257 1 (8978 100)	19492 15096....		BR	MON
	1700/20/40z	12 Jul	257 1 (4995 101)	26821 43848....		BR	WED
	1800/20/40z	12 Jul	257 1 (3245 136)	79644 37098....		BR	WED
	1700/20/50z	19 Jul	257 1 (1099 100)	77251 09971....		BR	WED
	1800/20/40z	19 Jul	257 1 (5796 140)	63932 17613....		BR	WED
	1700/20/40z	24 Jul	257 1 (8949 110)	73317 17149....		BR/HFD	MON
	1700/20/40z	26 Jul	257 1 (7726 110)	83332 85176....		BR	WED
	1800/20/40z	26 Jul	257 1 (9139 148)	50695 02931 71715 53406 000 000 (Via Silec Pl.)		E.SMITH	WED
	1800/20/40z	26 Jul	257 1 (9139 148)	50695 02921....		BR	WED
	1700/20/40z	31 Jul	257 1 (7294 106)	55151 25742....		BR	MON
9217/10617/12217	0500/20/40z	08 Jul	262 1 (3737 153)	58721 80868 ... 47836 87335 000 000		AB/E.SMITH/HFD	SAT
	0500/20/40z	15 Jul	262 1 (4475 67)	59641 95708 ... 62606 70397 000 000		E.SMITH	SAT
	0500/20/40z	22 Jul	262 000			E.SMITH	SAT
	0500/20/40z	29 Jul	262 1 (6501 119)	00350 78760 65922 68197 000 000		E.SMITH	SAT
9379/7979/6879	2100/20/40z	05 Jul	398 1 (3737 153)	58721 80868....		BR	WED
	2100/20/40z	12 Jul	398 1 (4475 67)	59641 95708....		BR	WED
	2100/20/40z	19 Jul	398 000			BR	WED
	2100/20/40z	26 Jul	398 1 (6501 119)	00350 78760....		BR	WED
13926/12126/10926	1310/30/50z	01 Jul	919 000			HFD	SAT
	1310/30/50z	06 Jul	919 1 (5547 85)	68787 90786 ... 32414 68710 000 000		AB	THU
	1310/30/50z	08 Jul	919 1 (5547 85)	68787 90786 ... 32414 68710 000 000		E.SMITH	SAT
	1310/30/50z	13 Jul	919 000			E.SMITH	THU
	1310/30/50z	15 Jul	919 000			BR	SAT
	1310/30/50z	20 Jul	919 000			E.SMITH	THU
	1310/30/50z	22 Jul	919 000			BR	SAT
	1310/30/50z	27 Jul	919 1 (4219 111)	07034 93778.... 15774 65601 000 000		AB	THU
	1310/30/50z	29 Jul	919 1 (4219 111)	07034 93778....		BR	SAT
14377/13461/12114	1700/20/40z	06 Jul	317 1 (9729 102)	09529 95005....		BR	THU
	1700/20/40z	13 Jul	317 1 (8309 105)	31667 71156....		BR	THU
	1700/20/40z	20 Jul	317 1 (6702 103)	54690 20464....		BR	THU
	1700/20/40z	27 Jul	317 1 (5682 107)	72070 66624....		BR	THU
14869/13569/12179	2110/30/50z	01 Jul	851 1			HFD	SAT
	2110/30/50z	05 Jul	851 1 (4403 101)	11503 61508....		BR	WED
	2110/30/50z	08 Jul	851 1 (4403 101)	11503 61508 ... 70923 09006 000 000		E.SMITH	SAT
	2110/30/50z	12 Jul	851 000			BR	WED
	2110/30/50z	15 Jul	851 000			E.SMITH	SAT
	2110/30/50z	19 Jul	851 1 (1102 67)	23041 06945....		BR	WED
	2110/30/50z	22 Jul	851 1 (1102 67)	23041 06945 89652 83501 000 000		E.SMITH	SAT
	2110/30/50z	26 Jul	851 1 (1102 67)	23041 06945....		BR	WED
	2110/30/50z	29 Jul	851 000		Weak	E.SMITH/tiNG	SAT
15821/13921/12221	1400/20/40z	05 Jul	892 1 (5153 193)	90036 87918 ... 98980 61214 000 000		E.SMITH/HFD	WED
	1400/20/40z	10 Jul	892 000			E.SMITH	MON
	1400/20/40z	17 Jul	892 1 (555 185)	50062 12927....		BR	MON
	1400/20/40z	19 Jul	892 1 (555 185)	50062 12927 73036 08188 000 000		E.SMITH	WED
	1400/20/40z	24 Jul	892 000			BR	MON
	1400/20/40z	26 Jul	892 000			BR	WED
	1400/20/40z	31 Jul	892 000			BR	MON
16323/14923/---	1950/2010/2030z	14 Jul	395 000			E.SMITH	FRI
<u>August 2017:</u>							
8047/6802/5788	1900/20/40z	02 Aug	463 1 (8963 130)	82623 04804....		BR	WED
	1900/20/40z	09 Aug	463 1 (7988 145)	95653 21188....		BR	WED
	1900/20/40z	16 Aug	463 1 (8206 149)	00222 33965....		BR	WED
	1900/20/40z	23 Aug	463 1 (3580 148)	53132 29565....		BR	WED
	1900/20/40z	30 Aug	463 1 (2927 137)	19465 09406....		BR	WED
8123/6923/5823	2100/20/40z	02 Aug	198 000			HFD	WED
	2100/20/40z	09 Aug	198 1 (3184 85)	07620 90656....		BR	WED
	2100/20/40z	16 Aug	198 000			BR	WED
	2100/20/40z	23 Aug	198 000			BR	WED
	2100/20/40z	30 Aug	198 1 (145 111)	66281 81448 ... 00529 63726 000 000		Gert/HFD	WED
9167/10267/---	0500/20/40z	05 Aug	125 000			E.SMITH/HFD	SAT
	0500/20/40z	12 Aug	125 1 (3184 85)	07620 90656 21614 47890 000 000		E.SMITH	SAT
	0500/20/40z	26 Aug	125 000			E.SMITH	SAT
9176/7931/6904	1700/20/40z	02 Aug	257 1 (1149 107)	80001 62277....		BR	WED
	1800/20/40z	02 Aug	257 1 (1863 131)	18889 71974....		BR	WED
	1700/20/40z	07 Aug	257 1 (511 73)	87476 04797....		BR	MON
	1700/20/40z	09 Aug	257 1 (1591 100)	82516 65255....		BR	WED
	1800/20/40z	09 Aug	257 1 (1581 144)	73877 91660....		BR	WED
	1700/20/40z	14 Aug	257 1 (3745 103)	13368 11435....		BR	MON
	1700/20/40z	16 Aug	257 1 (8657 105)	35729 53048....		BR	WED
	1800/20/40z	16 Aug	257 1 (9307 141)	50475 08455....		BR	WED

	1700/20/40z	21 Aug	257 1 (1275 102)	05182 24690....	BR	MON
	1700/20/40z	23 Aug	257 1 (563 160)	02264 06543....	BR	WED
	1800/20/40z	23 Aug	257 1 (5519 132)	43591 76317....	BR	WED
	1700/20/40z	30 Aug	257 1 (5020 105)	44414 86639....	BR	WED
	1800/20/40z	30 Aug	257 1 (1848 131)	35022 39442....	BR	WED
13369/12179/10469	2110/30/50z	02 Aug	314 000		HFD	WED
	2110/30/50z	05 Aug	314 000		E.SMITH	SAT
	2110/30/50z	09 Aug	314 1 (6451 89)	52604 53126....	BR	WED
	2110/30/50z	12 Aug	314 000		E.SMITH	SAT
	2110/30/50z	16 Aug	314 000		BR	WED
	2110/30/50z	23 Aug	314 1 (2210 91)	Weak signals - Unreadable	BR	WED
	2110/30/50z	26 Aug	314 1 (2210 91)	39893 11001 65778 48822 000 000	E.SMITH	SAT
	2110/30/50sz	30 Aug	314 1 (2210 91)	39893 11001....	BR	WED
14377/13461/12114	1700/20/40z	03 Aug	317 1 (4760 106)	83095 92789....	BR	THU
	1700/20/40z	10 Aug	317 1 (2343 102)	55736 14147....	BR	THU
	1700/20/40z	31 Aug	317 1 (1301 107)	11919 69425....	BR	THU
14468/13568/---	1310/30/50z	03 Aug	451 000		E.SMITH/HFD	THU
	1310/30/50z	10 Aug	451 000		E.SMITH	THU
	1310/30/50z	12 Aug	451 000		dmhz	SAT
	1310/30/50z	19 Aug	451 1 (3192 83)	56203 68018....	BR	SAT
	1310/30/50z	24 Aug	451 000		BR	THU
	1310/30/50z	26 Aug	451 000		BR	SAT
	1310/30/50z	31 Aug	451 000		BR	THU
15983/14683/13383	1400/20/40z	02 Aug	963 000		E.SMITH	WED
	1400/20/40z	07 Aug	963 1 (3391 127)	36681 01122 ... 06426 18596 000 000	AB/HFD	MON
	1400/20/40z	09 Aug	963 1 (3391 127)	36681 01122 ... 06426 18596 000 000	BR/E.SMITH	WED
	1400/20/40z	14 Aug	963 000		BR	MON
	1400/20/40z	21 Aug	963 000		BR	MON
	1400/20/40z	28 Aug	963 1 (8501 149)	46623 39926....	BR	MON
	1400/20/40z	30 Aug	963 1 (8501 149)	46623 39926 ... 05649 02582 000 000	Gert	WED
16148/14748/---	1950z	09 Aug	174 000		tiNG	WED
	1950z	25 Aug	174 000		tiNG	FRI
	1950/2010/2030z	30 Aug	174 000		BR	WED

M14 IA MCW / ICW Short 0

July 2017:

5240	2300z	23 Jul	376 (027 45) = 45632 17653 ... 37509 27843 = 027 45 00000	MCW	AB	SUN
5357	1600z	04 Jul	273 00000		AB/RNGB	TUE
5430	0800z	08 Jul	171 (273 55) = 74653 26354 ... 48736 91023 = 273 55 00000		AB	SAT
	0800z	22 Jul	171 (027 45) = 45632 17653 ... 37509 27843 = 027 45 00000	MCW	AB	SAT
5560	0900z	22 Jul	171 (027 45) = 45632 17653 ... 37509 27843 = 027 45 00000	MCW	AB	SAT
5827	0000z	24 Jul	376 (027 45) = 45632 17653 ... 37509 27843 = 027 45 00000	MCW	AB	MON
6881	1800z	21 Jul	382 00000		AB	FRI
7479	1700z	21 Jul	382 00000		AB	FRI
7590	0600z	23 Jul	382 00000		HFD	SUN
8162	0700z	23 Jul	382 00000		HFD	SUN
8183	0550 (IP) - 0603z	18 Jul	648 (241 40) = 34526 36452 39826 18726 00000 (Via silec, Pl. SDR)	ICW	E.SMITH	TUE
16347	0930 - 0934z	10 Jul	617 00000	ICW	E.SMITH	THU
	0930 - 0934z	25 Jul	617 00000	ICW	E.SMITH	TUE
18041	0500z	05 Jul	952 (713 60) = 31651 40596 ... 50131 24274 = 713 60 00000	Via SDR Japan	AB	WED
	0500z	06 Jul	952 (864 50) = 27647 19975 ... 24944 92696 = 864 50 00000		AB	THU
	0500z	20 Jul	952 (637 60) = 77718 55440 ... 33404 95829 = 637 60 00000		AB	THU
	0500z	24 Jul	952 (631 55) = 04538 70933 ... 90292 56279 = 631 55 00000		AB	MON

August 2017:

5240	2300z	27 Aug	376 (025 30) = 34253 75648 ... 75624 70689 = 025 30 00000	MCW	AB/E.SMITH	SUN
5357	1600z	01 Aug	273 (367 81) = 16230 40196 ... 53381 66189 = 367 81 00000	MCW	AB	TUE
5430	0800z	05 Aug	171 (027 45) = 45632 17653 ... 37509 27843 = 027 45 00000	MCW	AB	SAT
	0800z	19 Aug	171 00000		HFD	SAT

5560	0900 - 0913z	05 Aug	171 (027 45) = 45632 17653 ... 37509 27843 = 027 45 00000	MCW	AB/F5JBR	SAT
6881	1800 - 1804z	18 Aug	382 00000	Fair	tiNG	FRI
7485	1700 - 1704z	18 Aug	382 00000	Fair	tiNG	FRI
7590	0558 - 0619z	27 Aug	Several short transmissions heard - As detailed below:- 0558z A3 ---- 237 0559z 18234 63405 896 0600z 382 382 382 00000 0619z 5055 47302 91535 25443 12099 19045	MCW	AB	SUN
8162	0700z	27 Aug	382 00000	MCW	AB	SUN
16347	0930 - 0934z	10 Aug	617 00000	ICW	E.SMITH	TUE
18041	0500z	01 Aug	952 (708 50) = 78834 36248 ... 51427 06251 = 708 50 00000	CW	AB	TUE
	0500z	03 Aug	952 (760 50) = 50947 27722 ... 28116 70054 = 760 50 00000	CW	AB	THU
	0500z	04 Aug	952 (148 60) = 49172 56589 ... 27216 77367 = 148 60 00000	CW	AB	FRI
	0500z	07 Aug	952 (636 50) = 81630 68595 ... 28608 59312 = 636 50 00000	CW	AB	MON
	0500 - 0514z	08 Aug	952 (874 50) = 15432 94727 ... 33011 77537 = 874 50 00000		AB/F5JBR	TUE
	0500z	11 Aug	952 (318 60) = 59831 36913 ... 35467 45564 = 318 60 00000		AB	FRI
	0500z	23 Aug	952 (730 60) = 94918 08541 ... 11486 74637 = 730 60 00000		AB	WED
	0500z	25 Aug	952 repeated for 5 minutes then stopped...		AB	FRI
	0500z	28 Aug	952 (761 50) = 19589 60391 ... 33917 72828 = 761 50 00000		AB	MON

M14 5560kHz 0900z 22 July 2017

171 (R4m) 027 027 45 45 ==

45632 17653 27362 74689 23412 07896 35121 38902 56473 89012
87321 54287 09351 35421 56352 73542 37654 97864 90865 47352
03621 17435 27435 68321 56289 20957 20873 73624 94638 03645
10923 20354 75609 27156 27907 25341 94563 46321 28374 09483
64532 37564 10956 37509 27843 ==

027 027 45 45 00000

Courtesy AB

M14 18041kHz 0500z 08 August 2017

952 (R4m) 874 874 50 50 ==

15432 94727 44424 54805 20330 61688 90306 33274 26219 00168
34399 44924 04000 04576 23333 70844 73734 23353 14916 53072
85628 82600 90013 22764 04618 27769 54763 80019 53255 56858
00314 61314 92592 43555 12261 55452 45731 73751 46991 54002
93738 43876 17096 47144 98617 94484 53060 00857 33011 77537
==

874 874 50 50 00000

Courtesy AB / F5JBR

M23 O ICW

Edd, (E.SMITH), reports some M23 activity on 5345kHz in early to mid-July. No parallel freq found.

5345	1536 (IP) - 1546z	06 Jul	555 (R10m)	Via Silec, Poland SDR	CW	E.SMITH	THU
5345	1537 (IP) - 1546z	08 Jul	555 (R9m)	Via Silec, Poland SDR	CW	E.SMITH	SAT
5345	1203 (IP) - 1205z	10 Jul	111 (R2m)	Via Silec, Poland SDR	CW	E.SMITH	MON
	1226 (IP) - 1240z	10 Jul	444 (R14m) Weak, fades away	Via Silec, Poland SDR	CW	E.SMITH	MON
5345	1530 - 1542z	11 Jul	222 (R12m)	Via Silec, Poland SDR	CW	E.SMITH	TUE
5345	1530 - 1542z	12 Jul	222 (R12m)	Via Silec, Poland SDR	CW	E.SMITH	WED
5345	1430 - 1442z	13 Jul	222 (R12m)	Via Silec, Poland SDR	CW	E.SMITH	THU
	1530 - 1542z	13 Jul	222 (R12m)	Via Silec, Poland SDR	CW	E.SMITH	THU
5345	1432 - 1447z	17 Jul	555 (R15m)	Via Silec, Poland SDR	CW	E.SMITH	MON
	1532 - 1547z	17 Jul	555 (R15m)	Via Silec, Poland SDR	CW	E.SMITH	MON
5345	1432 - 1447z	18 Jul	555 (R15m)	Via Silec, Poland SDR	CW	E.SMITH	TUE
	1532 - 1547z	18 Jul	555 (R15m)	Via Silec, Poland SDR	CW	E.SMITH	TUE
5345	1432z	19 Jul	NRH.	Via Silec, Poland SDR	CW	E.SMITH	WED
	1532z	19 Jul	NRH	Via Silec, Poland SDR	CW	E.SMITH	WED

M24 IA MCW / ICW / MCWCC (high speed version of M14), short 0
No reports

M76 Schedule on 3280kHz (Changes to 3820kHz or 3294kHz over the year). A detailed analysis can be found in ENIGMA Newsletter 93 - May2016.
No reports

M97 CW, partner station to V30 10375kHz Starts 1453 - 1500z (Variable) .
No reports

Morse Stations - Not Number Related

M51 XIX

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

These logs sent in by 'E'

6825	1903z (IP)	12 Aug	CW. Numbers & letters. Single groups	'E'	SAT
	2139z (IP)	13 Aug	CW. Letters. Single groups	'E'	SUN
	2034z (IP)	15 Aug	CW. Slow single number & letter groups. (Also on 2221kHz)	'E'	TUE

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

3881//6825									
1130 - 1216z	28 Aug	Lundi-Leçon	21-1/1 Codé	21-1/2 Clair,	21-1/3 Codé,	21-1/4 Clair (420 grps/hr)	BR	MON	
1130 - 1203z	29 Aug	Mardi-Leçon	22-1/1 Codé	22-1/2 Clair,	22-1/3 Codé,	22-1/4 Clair (600 grps/hr)	BR	TUE	
1130 - 1206z	30 Aug	Mercredi- Leçon	23-1/1 Codé,	23-1/2 Clair,	23-1/3 Codé,	23-1/4 Clair (720 grps/hr)	BR	WED	

M89 O

This is a summary of activity from the M89 stations.

During July activity suggested that a possible major exercise was taking place. On 17 July, during the period 1500z, 4 & 5 kHz bands full of M89 station. Lots of exercise activity also logged over 27 July & 29 July.

Number Message

Jean-Paul, (JPL), logged this message on 13 August. Unusually for M89, the message consisted of 20 five-figure number groups. Most of the messages from this network use the four-figure cut number format.

4375	1320z - 1329	13 Aug	VVV 7GI (x3) DE T3B (x2) (IP - Cont'd)	(Remote tuner China)	JPL	SUN
	VVV 7GI (X3) DE T3B (X2) QSA ? K (IP - Cont'd - Hand sent - 1320z)					
	QTC 10 20 BT BT					
	91265 07695 92008 03031 41928 68769 04905 70020 99279 31630					
	45119 23463 5563A 09523 62056 77531 10376 92472 84985 80018 K					
	ABV (T=0)					
	QTC 10 20 BT BT (1327z)					
	91265 07695 92008 03031 41928 68769 04905 70020 99289 31631					
	45919 23463 55630 09523 62056 77531 10376 92472 84985 80018 K					
	QRU SK (1329z - Silent)					

Four letter coded message

JPL also logged this rare 4-letter coded message on the same day:-

5231	1351 (IP) - 1354z	13 Aug		(Remote tuner China)	JPL	SUN
	DKYU HITJ EKOG P.JC EHIF CKOG ASKL CIOF (IP - Cont'd - Hand sent - 1351z)					
	AR (1354z) (Rare 4 letter coded message)					
	HR WK NR 2.2 (Other station N/H on this frequency)					
	HR WK NR 202 K (Uses long zero) (1354z - Silent)					

Followed by this log of 4-letter coded message, switching to cut numbers on 30 August:-

5800	1115 (IP) - 1119z	30 Aug		(Remote tuner New Zealand)	JPL	WED
	ZAXF GHOP BYUK CESN ZMDEC WRIA BXEF OGLS NPTH (IP - Cont'd - Hand sent - 1115z)					
	AD6U NT5A 6TA. D4N3 5D43 (Switched to cut numbers - 1117z) (Unable to monitor any longer - 1119z)					

FXM Sends message

Although always logged with a regular Round Slip, this is the first time JPL has logged traffic on FXM. JPL has been monitoring FXM since 27 Jul 2015.

8350	1033 - 1035z	31 Aug	V WNF(x3) DE FXM (x2) (IP - Hand sent)	(Remote tuner New Zealand)	JPL	THU
	V WNF(x3) DE FXM (x2) (IP - Cont'd - Hand sent) (1033z)					
	FI 2613 2613 6NP 6NP R1 R1 PKT PKT CDV CDV AR (1034z)					
	FI 2613 2613 6NP 6NP R1 R1 PKT PKT CDV CDV AR K (1035z - Silent)					

Traffic & Operator Chat from M89

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

3240	4000	4507	5011	6061	8075	10183
3269	4055	4579	5038	6661	8428	10316
3471	4073	4609	5094	6686	8794	10394
3519	4101	4616	5118	6742	8861	10861
3783	4112	4623	5159	6786		
3833	4123	4628	5189	6807		
	4128	4652	5273	6817	9150	11182
	4163	4733	5285			
	4173	4767	5287			
	4191	4775	5329			
	4203	4876	5367			
	4229	4950	5452			
	4240	4994	5498			
	4246		5566			
	4261		5643			
	4302		5678			
	4316		5679			
	4356		5708			
	4365		5725			
	4372		5732			
	4388					
	4392					

New Schedules for Jul / Aug 2017: From logs submitted from JPL & F5JBR

6053/10178	Known Round Slip & frequencies Suspect this is GR4W circuit which has changed frequencies/band.	First heard 13 July	V FIK3 (x3) DE H4JH (x2)
7620 /8350	Found // for this Round Slip	First heard 25 July	V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K
3232//4242	New frequency for this Round Slip	First heard 27 July	TR2Q (x3) DE 5TUH V
4131// 5135	New frequency for this Round Slip	First heard 28 August	V JKDJ (x3) DE SLBC (x2)
4060//4609	Sending different Round Slips on the two frequencies since 21 July	4060kHz V GJHS (x3) DE 5GFD (x2) 4609kHz V FIK3 (x3) DE H4JH (x2)	
6053//10178	Sending different Round Slips on the two frequencies since 20 July	6053kHz V GJHS (x3) DE 5GFD (x2) 10178kHz V FIK3 (x3) DE H4JH (x2)	

Chart of M89 Freq & Call signs heard in Jul / Aug 2017 New Schedules shown in Bold Type From logs submitted from JPL & F5JBR

Freq in KHz	Call Slip	Freq in kHz	Call Slip
3232//4242	TR2Q (x3) DE 5TUH V	5801//NRH	V DKG6 (x3) DE 3A7D (x2)
3642//NRH	V DKG6 (x3) DE 3A7D (x2)	5801//10180	V DKG6 (x3) DE 3A7D (x2)
3642//7602	V DKG6 (x3) DE 3A7D (x2)	6053//NRH	V GJHS (x3) DE 5GFD (x2)
3777//4532	V M8JF (x3) DE RIS9 (x2)	6053//10178	V FIK3 (x3) DE H4JH (x2)
4060//NRH	GJHS (x3) de 5GFD (x2) V	6793//8060	V M8JF (x3) DE RIS9 (x2)
4060//NRH	V FIK3 (x3) DE H4JH (x2)	6840//10640	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K
4131//NRH	V JKDJ (x3) DE SLBC (x2)	7602//NRH	V DKG6 (x3) DE 3A7D (x2)
4131// 5135	V JKDJ (x3) DE SLBC (x2)	7620//8350	V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K
4238//NRH	VVV (x3) VTP6 (x3) X	8060//NRH	V M8JF (x3) DE RIS9 (x2)
4609//NRH	V FIK3 (x3) DE H4JH (x2)	8350//NRH	V WNF (x3) DE FXM (x2)
4609//NRH	V GJHS (x3) DE 5GFD (x2)	10178//NRH	V FIK3 (x3) DE 54V5 (x2)
4720//NRH	VVV WNF (x3) DE FXM (x2)	10180//NRH	V DKG6 (x3) DE 3A7D (x2)
4720//5150	VVV WNF (x3) DE FXM (x2)	10180//NRH	V FIK3 (x3) DE H4JH (x2)
4860// 6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K	10253//NRH	V 6TGU (x3) DE GR4W (x2)
5135//NRH	V JKDJ (x3) DE SLBC (x2)		
5177//NRH	V JKDJ (x3) DE SLBC (x2)		

Courtesy JPL

DP Stations

4894 DP91

1510 - 1524z 06 Aug Calls to DP7091, DP7391, DP7491, DP7591, DP7691, DP7791 (Remote tuner Siberia) JPL SUN

M89 4876kHz 1515 (IP) - 1516z 17 July 2017

4876kHz1515z 17/07/17[(IP) (Remote tuner New Zealand)]
JPL MON
RMKS 414767 TO EEEE (IP – Hand sent – 1515z)
RMKS 4147857 TO 3147861 BT
A4UT 3754 AUT5 TU37 (Cont'd – 1516z)

M89 4123kHz 1605 (IP) - 1608z 29 July 2017

PXI1PXI JPXI JPXI JPXI (IP – Cont'd – 1605z)
FFF NR 1128/EX 006 BT
KY34/QZ5. AR
NR 1128/EX 06
KY34/QZ5B AR
NR 1128/EX 0006 BT
KY34/QZ5B AR
QSY 10 QSY 10 VVV (1608z)

M89 6661kHz 0906 - 0912z 24 July 2017

VV 3KMJ DE VP4M K (IP – Hand sent - 0906z)
R QSA 3 K (0906z)
HR IEC BT 5TGB C K
R HR NR 1 EEEE HR WK NR 18268680 K (0907z)
R HR 7G K
R 7G NR .484 CK 61 24 0724 1700 RMKS 1826868 TO 1626862 BT
A3DU 34NU UA3D (Cont'd – 0908z)
AR K (0911z)
R U GA (0912z)

M89 3240kHz 1446 - 1448z 27 July 2017

NR 4555 CK . 9 44 0727 2240 RMKS 3211470 TO 3211472 K
(IP – Hand sent - 1447z)
R HR RPT
NR 4555 K
R BT BT A7.N A64U 46T7 DAU7 (Cont'd – 1448z)

M89 5479kHz 1038 - 1100z 27 July 2017

U47D NA47 364N (IP – Cont'd – Machine sent – 1038z)
AR (1040z)
MSG
NR 2540 CK 61 36 0727 2100 RMKS 3211646 TO 3211641 BT
5N4U 4A3. UD46 NUA4 (Cont'd – 1041z)
AR (1042z)
AGN
NR 2541 CK 61 .8 0727 2100 RMKS 3211646 TO 3211641 BT
5U7N A.7N 4U6N 5NU7 (Cont'd – 1043z)
AR (1046z)
MSG
NR 2541 CK 61 28 0727 2100 RMKS 3211646 TO 3211641 BT
5U7N A67N 4U6N 5NU7 7A6
MSG (1048z)
MSG NR IA
MSG
NR 2542 CK 61 65 0727 2150 RMKS 3211646 TO 3211648 BT
547T 6A45 6T7D 4TN7 (Cont'd – 1049z)
AR (1051z)
MSG
NR 2543 CK 61 3. 0727 2150 RMKS 3211646 TO 3
MSG
NR IA N (1053z)
MSG
NR 2543 CK 61 36 0727 2150 RMKS 3211646 TO 3211648 BT
54.T N6D4 746U 4TNA 64ND (Cont'd – 1054z)
AR (1057z)
MSG
NR 2542 CK 61 65 0727 214 RMKS 3211646 TO 3211648 BT
547T 6A45 (Cont'd – 1057z)
MSG
NR2543 CK 61 36
MSG
NR 2543 CK 61 36 0727 2150 RMKS 3211646 TO 3 R K (1058z)
MSG NR I
MSG
NR 2543 CK 61 36 0727 2150 RMKS 3211646 TO 3211648 BT
5.AT N EEE D... (Cont'd – 1100z – Unable to monitor any longer)

Courtesy JPL

M95 O XSV, XSV70, XSV85

M95 Morse Logs (Bold type indicates new logging)

4243//9054	Message number differs from current XSV70 and XSV85 message numbers.					
	2338 (IP) - 2358z	12 Jul	NR 012 CK 18 35 0713 0625 BT	(Remote tuner South Korea)	JPL	WED
			NR 019 CK 23 35 0713 0635 BT		JPL	WED
			NR 25 CK 076 35 0713 0702 BT		JPL	WED
	1131 (IP) - 1157z	13 Jul	NR 013 19 35 0713 1457 BT	(Remote tuner New Zealand)	JPL	THU
			NR 021 23 35 0713 1.40 BT		JPL	THU
			NR 26 149 35 0713 1705 BT		JPL	THU
	1143 (IP) - 1149z	25 Jul	NR 037 CK 20 35 0725 1445 BT	(Remote tuner New Zealand)	JPL	TUE
			NR 50 CK 128 35 0725 1625 BT		JPL	TUE
	1144 - 1155z	27 Aug	NR 002 CK 31 35 0827 1438 BT	(Remote tuner New Zealand)	JPL	SUN
			NR 057 CK 25 35 0827 1628 BT		JPL	SUN
			NR 54 CK 176 35 0827 1635 BT		JPL	SUN
	1145 - 1158z	31 Aug	NR 010 CK 19 35 0831 1452 BT	(Remote tuner New Zealand)	JPL	THU
			NR 052 CK 121 35 0831 1602 BT		JPL	THU
			NR 069 CK 18 35 0831 1617 BT		JPL	THU
4283//7553	Call sign XSV70					
	0922 (IP) - 0955z	15 Aug	BNEC (x3) DE XSV70 (x2) V	(Remote tuner South Korea)	JPL	TUE
			NR 718 CK 98 35 0815 1540		JPL	TUE
			NR 719 CK 170 35 0815 1540		JPL	TUE
			NR 717 CK 112 35 0815 0705		JPL	TUE

4364//8073	Call Sign	XSV85					
	0013 - 0022z	25 Jul	NR 0613 CK 58 35 0725 0715 BT	(Remote tuner China)	JPL	TUE	
	1137 - 1142z	25 Jul	NR 0615 CK 280 35 0725 1543 BT	(Remote tuner New Zealand)	JPL	TUE	
	1133 - 1145z	31 Aug	NR 0752 CK 41 35 0831 1614 BT	(Remote tuner New Zealand)	JPL	THU	
4397	1243 - 1247z	05 Aug	05 05 05 BT BT A43AA567U55 5 05 05 05	(Remote tuner New Zealand)	JPL	SAT	
8073	Usual format is Initial call-up in voice USB, then to digital 4+4 mode LSB, finally, switching to CW CW call-up is V BNGC (x3) DE XSV85 (x2) All logged via Remote tuner Hong Kong unless stated.						
	1131 - 1146z	13 Jul	NR 0556 CK 44 35 0713 1553 BT	(Remote tuner New Zealand)	JPL	THU	
			NR 0557 CK 115 35 0713 1658 BT		JPL	THU	
	1130 - 1143z	27 Aug	NR 0738 CK 151 35 0827 1547 BT	(Remote tuner New Zealand)	JPL	SUN	
9054	Call sign	XSV85	All logged via Remote tuner Hong Kong unless stated (See also 4243//9054kHz listing)				
	2343 (IP) - 2351z	03 Aug	NR 085 CK 2. 35 0804 0620 BT	(Remote tuner China)	JPL	THU	
			NR 056 CK 21 35 0804 0641 BT		JPL	THU	

M95	4283//7553kHz	0922z	15 August 2017
BNEC DE XSV70			
(IP – In Chinese digital 4+4 QPSK 75/3000 – LSB – 0909z)			
BNEC (x3) DE XSV70 (x2) V			
(IP - From Q26 sked - Machine sent – 0922z)			
HR MSG TO YR PSE CPY			
NR 718 CK 98 35 0815 1540			
... UT3 TA5 3U6 3A4 TT4 773 353 (Cont'd – 0923z)			
MSG AGN			
NR 718 CK 98 35 0815 1540			
... UT3 TA5 3U6 3A4 TT4 773 353 (Cont'd – 0927z)			
A HR MSG			
NR 719 CK 170 35 0815 1540			
DTN UT3 TA5 3UD ... 773 3AD (Cont'd – 0931z)			
MSG AGN			
NR 719 CK 170 35 0815 1540			
DTN UT3 TA5 3U6 TT4 773 3AD 357 (Cont'd – 0938z)			
A HR MSG			
NR 717 CK 112 35 0815 07.. (Audio problem – 0945z)			
MSG AGN			
NR 717 CK 112 35 0815 0705			
DTN UT3 ..5 3U4 3A4 TT4 773 353 (Cont'd – 0950z)			
ZNN SK (0955z)			
<i>Courtesy JPL</i>			

M95	9054kHz	1144z	27 August 2017
XSV85			
(IP - In Chinese digital 4+4 QPSK 75/3000 - LSB - 1144z)			
VV (Switched to CW - Hand sent - 1145z)			
A HR 7G GA			
HR 7G TO YR PSE CY (1146z)			
NR 002 CK 31 35 0827 1438 BT			
5TD UTT TU7 3U6 3A4 354 365 4T7 34U N3D			
4T3 U7U N4A 444 3DA 34U DND N34 445 3DA			
TTU TT3 773 435 3DU 34U DND N34 446 3DU			
4D3 AR			
7G AGN			
NR 002 CK 31 35 0827 1438 BT			
5TD UTT TU7 (Repeats message – 1149z)			
AR (1151z)			
NR 057 CK 25 35 0827 1628 BT			
UT5 TU7 3U6 3A4 TTA TTU TT3 773 354 37U			
N3D 353 4AD 445 34T N3D 4TA 446 467 4D3			
N3D 4D6 3DA N3D 3DU AR			
7G AGN			
NR 057 CK 25 35 0827 1628 BT			
UT5 TU7 3U6 (Repeats message – 1152z)			
AR (1153z)			
A HR 7G GA			
NR 54 CK 176 35 0827 1635 BT			
UTU TU7 3U6 3A4 7TU 7TA 7T7 75N 33A (Cont'd – 1155z)			
<i>Courtesy JPL</i>			

Marker Beacons (MX MXI)

4042	1445z	30 Aug	MX	CW	Beacon	"P"	(Via Silec Poland SDR)	E.SMITH	WED
4150	1910z	06 Jul	MX	CW	Beacon	"V"	(Via Silec Poland SDR)	E.SMITH	THU
	1840z	08 Jul	MX	CW	Beacon	"V"	(Via Silec Poland SDR)	E.SMITH	SAT
	1919z	15 Jul	MX	CW	Beacon	"V"	(Via Silec Poland SDR)	E.SMITH	SAT
	1900z	22 Jul	MX	CW	Beacon	"V"	(Via Silec Poland SDR)	E.SMITH	SAT
	1800z	26 Jul	MX	CW	Beacon	"V"	(Via Silec Poland SDR)	E.SMITH	WED
	1800z	29 Jul	MX	CW	Beacon	"V"	(Via Silec Poland SDR)	E.SMITH	SAT
	1900z	05 Aug	MX	CW	Beacon	"V"	(Via Silec Poland SDR)	E.SMITH	SAT
5094	1915z	06 Jul	MX	CW	Marker	"V"		E.SMITH	THU
	1841z	08 Jul	MX	CW	Marker	"V"	(Via Silec Poland SDR)	E.SMITH	SAT

	1857z	05 Aug	MX	CW	Marker	"V"	(Via Silec Poland SDR)	E.SMITH	SAT
5153.7	0024z	05 Aug	MXI	CW	Beacon	"D"	Sevastopol	'E'	SAT
5153.9	2225z	26 Aug	MXI	CW	Beacon	"S"	Sevoromorsk	BR	SAT
5157	1120z	24 Jul	MXI	CW	Beacon	"V"	(Via Silec Poland SDR)	E,SMITH	MON
	0830z	25 Jul	MXI	CW	Beacon	"V"	(Via Silec Poland SDR)	E,SMITH	TUE
9442	1002z	07 Aug	MX	CW	Marker	"P"	Channel Marker	E.SMITH	THU
10871.8	0953z	10 Jul	MXI	CW	Beacon	"P"		E.SMITH	MON
	1230z	11 Jul	MXI	CW	Beacon	"P"		E.SMITH	TUE
	1205z	13 Jul	MXI	CW	Beacon	"P"		E.SMITH	THU
10871.9	1205z	13 Jul	MXI	CW	Beacon	"S"	Sevoromorsk	E.SMITH	THU
13527.9	1604z	08 Jul	MXI	CW	Beacon	"S"	Sevoromorsk	E.SMITH	SAT

Oddities

4524kHz Marker

4524	1830z	08 Jul	"T"	Marker		Via Silec, Poland SDR	USB	E.SMITH	SAT
	2231z	08 Jul	"T"	Marker				'E'	SAT
4524	1405z	10 Jul	"T"	Marker		Via Silec, Poland SDR	USB	E.SMITH	MON
4524	0700z	14 Jul	"T"	Marker		Via Silec, Poland SDR	USB	E.SMITH	FRI
4524	1155z	17 Jul	"T"	Marker		Via Silec, Poland SDR	USB	E.SMITH	MON
4524	0625z	21 Jul	"T"	Marker	Carrier switched on for five to ten seconds, No message sent.			E.SMITH	FRI
4524	1829z	29 Jul	"T"	Marker		Via Silec, Poland SDR	USB	E.SMITH	SAT
4524	0536z	01 Aug	"T"	Marker		Via Silec, Poland SDR	USB	E.SMITH	TUE
4524	1528z	15 Aug	"T"	Marker		Via Silec, Poland SDR	USB	E.SMITH	TUE

S32 'Squeaky Wheel'

5473	0500z	04 Aug	S32	'Squeaky Wheel' marker	USB	(Daytime freq)	F5JBR	FRI
	1115-1118z		Alpha 45 04 549 OBLOZCA 84 75 31 26 MITAZOA 58 46 67 65 62 OBLOZCA (spelled) 84 75 31 26				F5JBR	FRI

XLS 'Slot Machine'

6109	1315z	13 Jul	'Slot Machine' (Japanese Navy)	[+/- a few kHz]	USB	Via Silec, Poland SDR	E.SMITH	THU
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Contributors: AB, AnonUS, BR, CB, dmhz, 'E', E.SMITH, F5JBR, Gert, HFD, JPL, RRGB, tiNG *Thank you all for your logs.*

Voice Stations

E06

E06 July/August log:

Thursday late night schedule

10/08		0300z	14648kHz	0400z	12084kHz	
	'361'	489 35 46272 15535 64442 99604 41848 76744 52282 73443 12646 80855 33902 39113 90074 19560 15981 46095 76985 59330 66989 92293				
		15607 45861 03151 72563 23942 74796 85818 84370 17807 30674 59971 39014 60705 45041 88511 489 35 00000				

First /Third Thursday (repeats Friday) **0500z** **13825kHz** **0600z** **15615kHz**

06/07	'679'	384 51 65386 53598 47080 48679 13099 69747 12539 83439 43684 03719 73456 72526 57596 45644 94815 87501 20927 42371 67769 43680				
		82984 79079 86445 27882 33799 60591 23278 18861 25023 09589 88818 30094 02633 23905 86956 29626 24896 60088 01479 16651				
		64025 35421 74922 59516 14957 65586 65671 24846 59707 80162 94139 384 51 00000				

20/07	'679'	438 51 69587 73058 61027 73486 21627 30454 34669 78431 47134 47354 93217 77653 56790 69126 98355 38757 59590 20611 48566 70620				
		57225 21757 76102 01978 05743 39700 26078 70646 30438 06937 66134 15587 04895 60313 00104 18981 30133 80492 84115 30517				
		74790 36608 68584 71072 62268 65764 14513 07975 15800 42109 57544 438 51 00000				

0500z 13540kHz 0600z 16115kHz

03/08 ‘210’ 689 54 24513 60331 60706 87942 86675 06729 32242 52476 74134 95628 47940 52873 15244 44746 51134 55610 56403 56179 77778 42770
 94625 22969 07999 64575 03943 04903 63845 21874 16602 78234 76666 96775 44986 89027 72554 73619 55187 64791 49288 17451
 28186 64112 43226 02225 69558 68953 09572 05882 53662 49323 64455 14526 13233 54992 689 54 00000

17/08 ‘210’ 849 53 00678 85806 78748 94507 26455 66269 6-673 40849 85005 59583 63579 74780 90228 06405 15582 96048 61729 84136 77544 33222
 88611 44616 15273 23420 71875 44873 49049 18703 00121 44390 33673 55060 38239 67297 63221 44938 33774 52960 17692 79227
 70658 43371 93741 49676 24986 80798 86680 27641 02537 14135 15935 60124 62717 849 53 00000

First/Third Thursday of month 2030z 5933kHz (frequency may vary slightly)
 20/07 ‘724’ 149 52 12265.....95732 149 52 00000] 2042z

Friday following First & Third Thursday 2130z 5731 kHz
 07/07 ‘315’ 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 (same old message)

Unscheduled:

20/07 **5890kHz** 1300z
 E06 was on the air instead of G06
 329 329 329 00000 Windows shutdown sound

12/08 1100z **16153kHz** 1200z **14438khz** (E06 USB E06 instead of F06)

‘832’ 951 64 20569 49088 95903 40530 87636 33693 50196 63673 25784 90174 73902 82228 04528 81466 62688 57893 42379 75459 91974 77803
 17205 55633 03969 65030 19384 64971 61026 09456 53927 48446 96655 73524 47711 59140 10130 66081 65559 19454 28778 16100
 66506 40436 92081 61147 48040 06892 33512 55823 50351 29084 44672 68089 36983 08560 95496 08042 53708 87576 91893 09502
 98187 98088 85277 13623 951 64 00000 Tks Ary

E06b
10755kHz 0932z 12/07 I.P. [975 84848 642 30 22089 07937 34175 16313 00000] 0944z USB E.SMITH WED
Thanks to Ary, RRGB, Ed Smith

E06 Logs from PoSW:-

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

6-July-17:- 5,953 kHz, calling “724”, DK/GC “149 149 52 52”, the message first used in the autumn of last year and which has appeared many times on both E06 and G06 in their respective languages. Strong broadcast station on 5,950, the worst effects removed by using the receiver in USB mode.

20-July-17:- 5,934 kHz, “724” and “149 149 52 52” again, S9 signal.

3-Aug-17:- 5,935 kHz, continues in August with “724” and, “149 149 52 52”.
 Call-up in progress when tuned in a couple of seconds before the half-hour, into 5Fs at approx 2033 UTC.

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

7-July-17: 5,731 kHz, Started about 7 seconds before the half-hour, call “315”, DK/GC “149 149 52 52”, that well-used message of fifty-two 5F groups. Over S9, ended approx 2142:30s UTC.
 That computer-related “chime”, which no doubt those who know about this stuff would describe as “XP shut down” heard after 2143 UTC followed by hum; bad ground connection somewhere, perhaps!

21-July-17:- 5,731 kHz, “315” and “149 149 52 52”, S9.

4-Aug-17:- 5,731 kHz, “315” and of course, “149 149 52 52”, S9 signal.

Return of a Saturday E06:-

12-Aug-17:- 1101 UTC, 16,153 kHz, E06 calling “832”, then DK/GC “951 951 64 64”,
 S9 signal, ended around 1115 UTC. An E06 with this call had been noted earlier this year on Saturday 15-April. A search for a repeat at 1200 UTC on a lower frequency, expected to be between one and two MHz lower proved fruitless.

13-Aug-17, Sunday:- 1100 UTC, 16,153 kHz, a “next day repeat”, peaking S9 with occasional fading down to a much weaker signal for a second or two. In expectation of this a receiver had been parked on 16,153; carrier with tone noted at 1042 UTC and a single spoken “832” at 1044.
 After the transmission ended at about a quarter past the hour the carrier stayed up until after 1126 UTC.
 1200 UTC, 14,438 kHz, the second sending, a much weaker signal, indicating S4 at best, presumably was also on this frequency yesterday.

It seemed likely that this one was going to show up on Saturday 26-August-17 because there was a strong carrier up on 16,153 at around 1055 UTC, but when checked again just after the hour there was some kind of wide-shift FSK data signal, not the sound of the rather sad and depressed sounding E06 O.M.

E07

PoSW's E07 Logs

As expected, the E07 schedules which appear in the UK evening time continue to use the same frequencies as in the same month in past years – including the Monday + Wednesday 1900 UTC start SSB schedule, which made the changeover from AM to SSB in June of last year.

Sunday + Wednesday Schedule, 1700 UTC Start:-

2-July-17, Sunday:-

1700 UTC, 13,898 kHz, “817 817 817 1”, DK/GC “497 122” x 2, weak signal, difficult copy.
1720 UTC, 12,198 kHz, second sending, much stronger signal, peaking S9, came up to S9+ after a few minutes.
1740 UTC, 10,798 kHz, third sending, also over S9.

9-July-17, Sunday:-

1700 UTC, 13,898 kHz, weak signal, difficult to hear, could tell it was “full message”.
1720 UTC, 12,198 kHz, second sending, much stronger, over S9, DK/GC “216 74” x 2.
1740 UTC, 10,798 kHz, third sending, S9 with QSB.

12-July-17, Wednesday:-

1700 UTC, 13,898 kHz, “817” and “216 74” again, much better signal than on the 9th, S8 with better than usual audio.
1720 UTC, 12,198 kHz, second sending, S9+.
1740 UTC, 10,798 kHz, third sending, S8 with deep QSB.

19-July-17, Wednesday:-

1720 UTC, 12,198 kHz – 1700z sending was very weak, - “817 817 817 1”, DK/GC “506 71” x 2, over S9.
1740 UTC, 10,798 kHz, third sending, S9 with QSB.

23-July-17, Sunday:-

1700 UTC, 13,898 kHz, “506 71” again, a better signal than on the 19th, S9 with QSB, audio low but readable.
1720 UTC, 12,198 kHz, second sending, S9, audio somewhat better than first sending.
1740 UTC, 10,798 kHz, third sending, weaker.

2-Aug-17, Wednesday:-

1700 UTC, 13,881 kHz, weak signal, unreadable, carrier went QRT around 1702:30s UTC which can only mean, “no message”.
1720 UTC, 12,181 kHz, second sending a much better signal, S9 with reasonable audio, “818 818 818 000”.

6-Aug-17, Sunday:-

1706 UTC, 13,881 kHz, transmission in progress, missed start, “full message”, S9 with reasonable audio, ended after 1711 UTC.
1720 UTC, 12,181 kHz, “818 818 818 1”, DK/GC “765 60” x 2, started off S9 then became weaker.
1740 UTC, 10,881 kHz, third sending, S9 with QSB.

16-Aug-17, Wednesday:-

1700 UTC, 13,881 kHz, very weak signal, unreadable.
1720 UTC, 12,181 kHz, second sending, much better signal, S9, DK/GC “765 60”, same as on the 6th.
1740 UTC, 10,881 kHz, over S9 with QSB.

Thursday Schedule, 2010 UTC Start:-

6-July-17:-

2010 UTC, 11,539 kHz, “553 553 553 1” for a full message; this Thursday schedule started sending traffic earlier this year after many months of “no message” format. DK/GC “458 73” x 2. Heterodyne from a strong carrier on 11,540, presumably a broadcast station warming the TX up. Copy best with the receiver in LSB mode. Audio clipped at times, especially on the first spoken “five” of the “553” routine.
2030 UTC, 10,547 kHz, second sending, S9 with reasonable audio.
2050 UTC, 9,388 kHz, third sending, strong broadcast station on 9,390, best copy in LSB mode.

13-July-17:-

2010 UTC, 11,539 kHz, “458 73” again, S9 with reasonable audio, no carrier on 11,540 this evening to spoil things.
2030 UTC, 10,547 kHz, over S9.
2050 UTC, 9,388 kHz, the broadcaster on 9,390 very strong.

20-July-17:-

2030 UTC, 10,547 kHz, second sending, “553 553 553 000”, S9 with deep QSB.

27-July-17:-

2010 UTC, 11,539 kHz, “553 553 553 1” for a “full message”, DK/GC “778 87” x 2, S9 with reasonable audio.
2030 UTC, 10,547 kHz, S9.
2050 UTC, 9,388 kHz, reasonable copy with the receiver in LSB mode to reduce the effect of the strong BC station on 9,390.

3-Aug-17:-

2010 UTC, 10,753 kHz, “716 716 716 000”, S9, audio low.
2030 UTC, 9,147 kHz, also S9 with low audio.

10-Aug-17:-

2010 UTC, 10,753 kHz, “716 716 716 1”, full message, DK/GC “716 58” x 2, the “Decode Key” - if that is what it is - same as the call; do we think there is some significance in this? Also, noted an extra spoken “1” tacked on after the second rendering of the “58” group count; perhaps the apparatus generating the message became confused in some way because the call and DK were the same. S9 signal with QSB.
2030 UTC, 9,147 kHz second sending, and 2050 UTC, 7,637 kHz, third sending, both weaker signals than the 2010z transmission.

24-Aug-17:-

2010 UTC, 10,753 kHz, and 2030 UTC, 9,147 kHz, both S9 with reasonable audio, “716 716 716 000”.

Monday + Wednesday SSB Schedule, 1900 UTC Start:-

3-July-17, Monday:-

1900 UTC, 16,263 kHz, “273 273 273 1”, DK/GC “696 91” x 2, weak signal.
1920 UTC, 14,763 kHz, second sending, much stronger signal, S8. Looks like the same message as on 26-June.
1940 UTC, 13,363 kHz, third sending, also S8.

5-July-17, Wednesday:-

1900 UTC, 16,263 kHz, “273” and “696 91” again, weak signal.
1920 UTC, 14,763 kHz, second sending, also weak.
1940 UTC, 13,363 kHz, by far the best sending of the three, S8.

12-July-17, Wednesday:-

1900 UTC, 16,263 kHz, still with the same “696 91” message, very weak signal.
1920 UTC, 14,673 kHz, second sending, S5 to S6.
1940 UTC, 13,363 kHz, the strongest, S8.

24-July-17, Monday:-

1900 UTC, 16,263 kHz, “273 273 273 000”, very weak signal, only just readable.
1920 UTC, 14,763 kHz, also weak.

26-July-17, Wednesday:-

1900 UTC, 16,262 kHz, “273 273 273 000”, weak signal.
1920 UTC, 14,763 kHz, second sending, much stronger, up to S7.

2-Aug-17, Wednesday:-

1900 UTC, 16,147 kHz, “164 163 164 000”, weak signal.
1920 UTC, 14,647 kHz, second sending, much stronger, S7 to S8.

7-Aug-17, Monday:-

1900 UTC, 16,147 kHz, “164 164 164 1”, DK/GC “678 83” x 2, S8 to S9, unusually strong signal.
1920 UTC, 14,647 kHz, second sending, peaking over S9.
1940 UTC, 13,447 kHz, third sending, peaking S9.

9-Aug-17, Wednesday:-

1900 UTC, 16,147 kHz, “164” and “678 83” again, over S9.
1920 UTC, 14,647 kHz, second sending, slightly weaker.
1940 UTC, 13,447 kHz, third sending, S8 to S9.

16-Aug-17, Wednesday:-

1900 UTC, 16,147 kHz, still up with “678 83”, S8 SSB signal.
1920 UTC, 14,647 kHz, and 1940 UTC, 13,447 kHz, both peaking over S9.

21-Aug-17, Monday:-

1900 UTC, 16,147 kHz, “164” and “678 83” - still. Over S9 SSB signal.
1920 UTC, 14,647 kHz, and 1940 UTC, 13,447 kHz, repeats, both S8 to S9.

Saturday + Sunday SSB Schedule. 0600 UTC Start:-

1-July-17, Saturday:-

0600 UTC, 9,064 kHz, “024 024 024 000”, S7 to S8.
0620 UTC, 10,264 kHz, second sending, also S8, same frequencies as in May and June, then.

2-July-17, Sunday:-

0600 UTC, 9,064 kHz, “024 024 024 000”.

8-July-17, Saturday:-

0600 UTC, 9,064 kHz, “024 024 024 1” for a “full message”, DK/GC “327 74” x 2, S8 at first, rapidly came up to over S9.
0620 UTC, 10,264 kHz, second sending, over S9.
0640 UTC, 11,464 kHz, third sending, S9+, very strong signal.

9-July-17, Sunday:-

0600 UTC, 9,064 kHz, “024” and “327 74”, as yesterday, S9.
0620 UTC, 10,624 kHz, second sending, very strong S9+.
0640 UTC, 11,464 kHz, also S9+.

15-July-17, Saturday:-

0600 UTC, 9,064 kHz, “327 74” again, as heard last weekend.
0620 UTC, 10,264 kHz, and 0640 UTC, 11,464 kHz, the strongest signal of the three transmissions.

22-July-17, Saturday:-

0600 UTC, 9,064 kHz, “024 024 024 1”, DK/GC “533 47” x 2, peaking S9.
0620 UTC 10,264 kHz, second sending, S7 to S8 at first but propagation must have been rapidly changing because the signal became weaker after a couple of minutes into the transmission and at the same time a STANAG, whatever it is, “XJT” came up out of nowhere, has been noted on this second sending in the past, and was pushing the S-meter well over the 9 by the time E07 finished after 0627 UTC.
0640 UTC, 11,464 kHz, third sending, up to S9.

23-July-17, Sunday:-

0600 UTC, 9,064 kHz, “533 47” again, as yesterday, indicating around S7.
0620 UTC, 10,264 kHz, second sending, also S7, no sign of the noise-maker which appeared on this sending yesterday.
0640 UTC, 11,464 kHz, third sending, the strongest, S9.

5-Aug-17, Saturday:-

0600 UTC, 9,064 kHz, “024 024 024 1”, DK/GC “533 47” x 2, same message as first heard on 22-July, must be important! Over S9 SSB signal.
0620 UTC, 10,264 kHz, and 0640 UTC, 11,464 kHz, the repeats, both also over S9.

6-Aug-17, Sunday:-

0600 UTC, 9,064 kHz, “024” and “533 47” again.
0620 UTC, 10,264 kHz, and 0640 UTC, 11,464 kHz, the repeats, all three transmissions peaking over S9.

12-Aug-17, Saturday:-

0600 UTC, 9,064 kHz, “024” and still sending, “533 47”, S8 to S9.

0620 UTC, 10,264 kHz, S8, and 0640 UTC, 11,464 kHz, over S9, the repeats.

27-Aug-17, Sunday:-

0600 UTC, 9,064 kHz, “024 024 024 1”, DK/GC “435 38” x 2, S8.

0620 UTC, 10,264 kHz, second sending, the “XJT” noise-maker churning away on this frequency again, E07 mostly winning the contest.

0640 UTC, 11,464 kHz, S8.

Onto others logs with repetition:

Sunday/Wednesday

July 2017

1700z	13898kHz	1720z	12198kHz	1740z	10798kHz
02/07	817 1 497 122 66539 ... 43277 000 000			[1700z start problems - restarted 1705z]	Fair
05/07	817 2 285 55 56134 ... 77204 818 2 497 122 66539 ... 43677 000 000			[Double-msg - 2 nd msg is a repeat of 02 July]	
	817 817 817 2 283 55 283 55 56134 45300 14132 03199 27235 18939 70744 34281 20911 42093 49932 90203 24115 85841 58244 16821 58744 09364 62467 18395 98223 02196 01985 11872 71834 52091 67486 85193 67330 75962 71895 64323 40962 09221 34563 70670 68084 93194 97978 38808 01445 99566 71048 71707 84622 52200 51894 22574 38895 77619 01365 62550 26861 67798 77204 817 817 817 2 497 122 497 122 66539 33715 06484 10119 13454 33508 24567 54743 58117 65910 20050 39119 19713 38775 52998 77437 44456 40949 02862 14629 48544 98059 25042 54531 94509 68056 89210 78053 52870 89845 83031 02660 04740 08162 24034 26443 67676 84784 84577 09850 10827 16163 51866 97097 86880 58389 33861 62113 17006 87194 69960 00950 48290 31414 50178 73720 76584 91243 55257 72274 53590 53624 20570 60872 24769 21873 75221 20974 25472 04344 01139 60582 55770 53057 98240 56472 52507 95174 09503 37640 78816 47472 63029 48611 50410 59634 97531 33989 41875 83660 75306 76608 49139 74890 29411 80092 68468 78972 25025 52459 53828 62456 51686 42095 09159 53405 91029 32161 40817 72567 99116 99222 65553 16500 85769 91353 19421 64627 98764 11885 56163 43677 000 000 <i>Courtesy Ary</i>				
09/07	817 1 216 74 93766.....28415 000 000			[S9 Carrier S2 Modulation on 10798kHz]	Strong/Very strong
12/07	817 1 215 74 93766.....28415 000 000				Fair/Strong
19/07	817 1 506 71 55706.....20966 000 000				Strong/Very Strong
23/07	817 1 506 71 5570620966 000 000				Strong/Fair
30/07	817 000				Strong

August 2017

1700z	13881kHz	1720z	12181kHz	1740z	10881kHz
06/08	818 1 765 60 12255.....48831 000 000 At 1700z 818 1 765 60 12255....STOPPED 1703z started at increased power 1704z 818 1 but with grp 13367				Strong <i>Malc</i>
09/08	818 1 765 60 12225.....48831 000 000			[13881kHz weak]	Strong
13/08	818 1 765 60 12225.....48831 000 000	Repeat of 06 & 09 Aug	Via websdr in Hungary		Fair
	818 818 818 1 765 60 765 60 12255 13367 01267 17267 97962 21136 96829 74550 31355 83573 79644 75279 93582 52862 76178 81537 21784 20353 93248 94515 32560 03708 82849 77201 59963 78872 38049 26919 54356 43187 04748 02088 07867 85558 27783 10340 18867 18848 45932 31497 33432 64614 47638 23119 62206 24845 58449 73280 10201 08064 44872 42504 08622 26845 88988 51123 08585 21709 39345 48831 000 000 <i>Courtesy Ary</i>				
16/08	818 1 765 60 12255.....48831 000 000			[13881kHz weak]	Strong/Good
20/08	818 2 497 ?4...	[Very poor audio on bad modulation paired with very deep fading]			Fair
23/08	818 2 498 64 93625.....63363 818 2 381 28 90874.....99913 000 000			[13881kHz U/S]	Strong
27/08	818 2 498 64 93625.....63363 818 2 381 28 90874.....99913 000 000				Strong/Very strong
30/08	818 2 498 64 93625.....63363 818 2 381 28 90874.....99913 000 000				Very strong/Strong

Sunday/Saturday

July 2017

0600z	9064kHz	0620z	10264kHz	0640z	11464kHz
01/07	024 000				

02/07	024 000		Good/Very strong
08/07	024 1 327 74 53499 69083 ... 97340 57842 000 000		
	024 024 024 1 327 74 327 74 53499 69083 99014 02746 34169 64007 22629 86036 60778 46508 93865 46678 12691 32182 57791 19907 85825 84233 55377 69979 62314 38718 12399 58439 77440 23323 39704 18059 15642 72907 41770 21250 22246 06961 32215 67275 56811 29144 61829 68668 09112 61685 73354 26935 29075 39773 70296 82562 82959 80051 47567 18946 83573 10294 25053 26409 63613 18095 09969 81476 56769 42509 04524 05112 27969 02081 44339 23455 58112 12921 22626 64904 97340 57842 000 000 <i>Courtesy Ary Edd Smith</i>		

15/07	024 1 327 74 53499 69083 97340 57842 000 000	[0620z XJT QRM4]	
16/07	024 1 327 74 53499 ... 57842 000 000	[0620z XJTQRM2]	Very strong
22/07	024 1 533 47 41959 25950 62317 32632 000 000	[0620z XJT QRM4]	
29/07	024 1 533 47 41959 ... 32632 000 000		Very strong

August 2017

0600z	9064kHz	0620z	10264kHz	0640z	11464kHz	
05/08		024 1 533 47 41959 ... 32632 000 000				Very strong
06/08		024 1 533 47 41959....32632 000 000				Strong/Very strong
12/08		024 1 533 47 41959 25950 62317 32632 000 000			[0620z XJT QRM4]	
13/08		024 1 533 47 41959 ... 32632 000 000			[0620/0640z unworkable]	Weak
19/08		024 1 435 38 05668 ... 47811 000 000			[0740z Very weak]	Weak
26/08		024 1 435 38 05668 ... 47811 000 000			[0600z Fair]	Very weak
27/08		024 1 435 38 05668 ... 47811 000 000			[0620/0640z NRH]	Strong
	024 024 024 435 38 435 38 05668 60566 03865 03971 43302 80274 53480 00052 46210 76385 44609 23491 92850 05205 88833 25758 43032 52221 19475 71468 80859 55317 41585 42785 88254 39300 08988 72259 75886 76450 33277 10460 05614 93914 21112 11591 93179 47811 000 000 <i>Courtesy Ary</i>					

Monday/Wednesday

July 2017

1900z	16263kHz	1920z	14763kHz	1940z	13363kHz	
03/07		273 1 696 91 90711 ... 76874 000 000			[1940z Fair]	Weak
05/07		273 1 696 91 90711 ... 76874 000 000			[1900z Weak]	Fair
10/07		273 1 696 91 90711 07600 80971 ... 95125 76874 000 000				Weak
12/07		273 1 696 91 90711 07600 80971 ... 95125 76874 000 000				Weak/Fair
17/07		273 000				Weak
19/07		273 000				Fair/Strong
24/07		273 000				Fair
26/07		273 000				Good
31/07		273 000				Fair/Strong

August 2017

1900	16147kHz	1920z	14647kHz	1940z	13447kHz	
07/08		164 1 678 83 50183.....42185 000 000				Strong
09/08		164 1 678 83 50183.....42185 000 000				Strong
14/08		164 1 678 83 50183.....42185 000 000				Fair/Strong
16/08		164 1 678 83 50183.....42185 000 000				Very strong
21/08		164 1 678 83 50183.....42185 000 000				Very strong/Strong
23/08		164 1 678 83 50183.....42185 000 000			[16147kHz unusable]	Weak

28/08	164 1 678 83 50183.....42185 000 000	Fair/Good
30/08	164 1 678 83 50183.....42185 000	Good/Strong

164 164 164 678 83 678 83
50183 58199 52060 27839 62809 32794 00144 95518 39123 62895
01175 14945 83584 90212 39710 16717 92883 86227 85297 00351
16562 79124 97565 91766 59936 63114 83975 89250 45480 49992
09720 10046 25845 58587 63693 43661 12331 13242 83385 22369
98201 23872 91876 79947 26444 16401 24356 82452 51350 29669
58506 18605 59270 04509 62286 94192 12581 41695 75063 77126
87446 63966 44792 56311 84005 31688 51312 03013 81675 16612
34886 49676 58558 29473 82140 82148 34400 13979 71929 84893
18042 30120 42185 000000 *Courtesy HJH*

Tuesday/Friday

July 2017

1100z	19252kHz	1120z	17452kHz	1140z	16252kHz	
07/07	242 000					
11/07	242 1 7936 117 61504 ... 21556 000 000					Fair
	242 242 242 1 7936 117 7936 117 61504 57838 27192 00614 04116 89321 45623 41478 20357 58296 64760 67838 44126 57060 36277 55525 78830 22278 89486 39993 72738 10100 83815 56128 64935 64413 80394 08294 20695 80618 67950 65212 09228 69467 59309 27944 17735 53468 11874 30593 40874 93156 47448 64865 63224 76674 21557 60427 04164 95429 59910 60572 72943 63788 11736 94105 75964 95863 06475 43479 89974 09388 71560 46750 95151 59478 79183 29889 77260 05596 27325 07378 40922 38034 26987 54820 28681 64913 15703 36127 04026 75850 77468 63698 99398 85846 06943 95147 85399 73677 88064 70379 65710 49354 39054 61813 58463 33170 86768 06533 36086 02692 73073 50743 44926 09032 61926 24521 85466 01365 45891 15470 06484 25319 48474 16421 21556 000 000 <i>Courtesy Ary Edd Smith</i>					
14/07	242 1 7936 117 61500....					
	242 1 7936 117 61504 57838 27192 00614 04116 89321 45623 41478 20357 58206 64760 67838 44126 57060 36277 55525 78830 22278 89486 39993 72738 10100 83815 56128 64935 64413 80394 08294 20695 80618 67950 65212 09228 69467 59309 27944 17735 53468 11874 30593 40874 93156 47448 64865 63224 76674 21557 60427 04164 95429 59910 60572 72943 63788 11736 94105 75964 95863 06475 43479 89974 09388 71560 46750 95151 59478 79183 29889 77260 05595 27325 07378 40922 38034 26987 54820 28681 64913 15703 36127 04026 75850 77468 63698 99398 85846 06943 95147 85399 73677 88064 70379 65710 49354 29054 61813 58462 33170 86768 06533 37086 02692 73073 50743 44926 09032 61926 24521 85466 01365 45891 15470 06484 25319 48474 16421 21556 000 000 <i>Courtesy Edd Smith</i>					
18/07	242 000					Fair
21/07	242 000					Weak
25/07	242 1 2076 167 46581.....26092 000 000				[1100z weak]	Good

242 1 2076 167
46581 20833 82778 66137 12545 33073 87106 15934 49708 62666
69521 50933 86795 14868 95881 65778 81176 91613 85905 87587
79744 89019 59673 23982 85585 63557 96259 51803 33438 08615
33311 80047 72582 98215 31895 69569 51747 55246 37670 41470
78017 72338 82409 24294 09790 90233 11463 45659 92008 33977
79015 58506 70858 69609 01794 77916 79179 87634 82983 37463
55874 04099 65084 59906 86189 14528 96143 50906 25486 23375
93434 89382 31448 04321 75790 24351 70628 87404 41096 21675
16106 73622 20846 78072 79915 76451 72277 11772 97578 04306
25239 57892 73900 89467 22976 26688 33899 99115 74129 52012
65881 31247 07867 25780 30852 23429 45958 43123 45888 52898
77355 53121 91960 10435 25201 97548 68634 43390 20568 61681
47606 07552 83708 66307 56502 35750 11054 17942 12869 69042
12603 89424 98811 08486 72079 42176 91401 42236 26044 72418
93890 41414 06087 67752 24927 39785 29090 00803 26767 36387
72731 95647 18745 97076 86315 01588 99877 27692 97382 96546
76124 35432 61133 04261 00442 11279 26092 000 000
Courtesy Edd Smith

28/07	242 1 2076 167 46581 20833 11279 26092 000 000
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August 2017

1100z	20146kHz	1120z	18246kHz	1140z	16346kHz	
04/08	123 000					Fair
08/08	123 000				[NRH on 20146kHz]	Weak
11/08	123 000					Weak

15/08	123 000				Weak
22/08	123 1	9615 84 70863.....27855 000 000		[Too weak to copy on 20146kHz]	Weak
25/08	123 1	9615 84 70863 80984 ... 84813 27855 000 000			
	123 123 123 1 9615 84 9615 84 70863 80984 66536 97505 54529 78866 58769 17780 26904 89944 50356 52968 52451 37999 90378 45542 76768 18419 76496 24027 72611 52006 39025 60673 42202 04189 90118 56226 60806 27096 42347 01403 22272 23302 81529 83494 73386 56465 94049 46880 27506 91872 35180 06439 82836 37663 48221 24825 72460 99032 11722 51169 82488 06031 24943 61818 24940 84135 22647 46766 79764 47137 13275 89612 64990 20232 91464 04957 64753 63541 47408 80232 55768 24109 98270 20101 13295 87033 91767 69523 32331 36411 84813 27855 000 000 <i>Courtesy Ary</i>				
29/08	123 000			[NRH on 20146kHz]	Strong

Thursday

July 2017

2010z	11539kHz	2030z	10547kHz	2050z	9388kHz	
06/07	553 1 458 73 47700.....15389 000 000				[Strong BC QRM on 9388kHz]	Fair
13/07	553 1 458 73 47700....					
20/07	553 000					Strong/Fair
27/07	553 1 778 87		[Poor modulation, unable to copy more]			Weak

August 2017

2010	10753kHz	2010z	9147kHz		
03/08	716 000				
17/08	716 000				Good/Fair
24/08	716 000			[S9 Carrier S4/5 Modulation]	
31/08	716 000				Strong

E07a

Wednesday

July 2017

2000z	12166kHz	2020z	10766kHz	2040z	9266kHz	
05/07	172 000					Very strong
12/07	172 1 65248 8960 31 15657.....63523 000 000					Strong
26/07	172 000					Strong

August 2017

2000z	12166kHz	2020z	10766kHz	2040z	9266kHz	
09/08	172 000					Very strong
16/08	172 000					Strong
23/08	172 000					Weak
30/08	172 000					Strong

Thursday

July 2017

0430z	7933kHz	0450z	9133kHz	0510z	10233kHz	
06/07	912 000					Very strong
13/07	912 1 65248 8960 31 15657 ... 63523 000 000					Very strong
	912 1 65248 8960 31 15657 12373 56594 86782 59776 37446 68648 85412 93928 23836					

20/07	912 000	
27/07	912 000	Very weak

August 2017

0430z	7933kHz	0450z	9133kHz	0510z	10233kHz	
03/08	912 000					Very strong
10/08	912 000				[0450z NRH]	Very strong
17/08	912 000					Very strong
24/08	912 000				[0450z Fair, local QRM4]	Very strong
31/08	912 000					Strong

Friday

July 2017

1510z	12213kHz	1530z	11413kHz	1550z	10113kHz	
07/07	241 000				[NRH on 12213kHz]	Strong
14/07	241 000					Fair
21/07	241 000					Fair

August 2017

1510z	12213kHz	1530z	11413kHz	1550z	10113kHz	
04/08	241 000					Weak/Good
11/08	241 000					Fair
25/08	241 000					Fair

Saturday

July 2017

0800z	12173kHz	0820z	13973kHz	0840z	14873kHz	
01/07	198 000					Weak/Fair
08/07	198 000					Strong/Fair
15/07	198 000					Fair
22/07	198 000					Fair
29/07	198 000					Strong

August 2017

0800z	12177kHz	0820z	13477kHz	0840z	14877kHz	
05/08	148 000					Strong
12/08	148 000					Fair/Strong
19/08	148 000					Weak/Fair
26/08	148 000					Fair/Good

PoSW's take on E07a

Saturday Schedule, 0800 UTC Start:-

1-July-17:-

0800 UTC, 12,173 kHz, “198 198 198 000”, S5.

0820 UTC, 13,973 kHz, second sending, also about S5.

8-July-17:-

0800 UTC, 12,173 kHz, and 0820 UTC, 13,973 kHz, both S7, “198 198 198 000”

15-July-17:-
0800 UTC, 12,173 kHz, “198 198 198 000”, S7.
0820 UTC, 13,973 kHz, second sending, much weaker signal.

22-July-17:-
0800 UTC, 12,173 kHz, “198 198 198 000”, signal up and down, very weak to an indicated S8.
0820 UTC, 13,973 kHz, second sending, weak signal.

5-Aug-17:-
0800 UTC, 12,177 kHz, “148 148 148 000”, S8 signal.
0820 UTC, 13,477 kHz, second sending, slightly weaker.

12-Aug-17:-
0800 UTC, 12,177 kHz, and 0820 UTC, 13,477 kHz, weaker, “148 148 148 000”.

26-Aug-17:-
0800 UTC, 12,177 kHz, “148 148 148 000”, S7.
0820 UTC, 13,477 kHz, second sending, peaking S7 but fading down to a much weaker signal at times. This schedule has settled into a “no message”
rut in much the same way that the Thursday 2010 UTC E07 schedule did for some considerable time. One is usually in a position to
monitor this 9 o'clock of a Saturday morning appearance and although a few weeks have been missed a quick trawl through the log books
suggests the last time a “full message” was heard was on Saturday 16-April-2016.

Wednesday Schedule, 2000 UTC Start:-

5-July-17:-
2000 UTC, 12,166 kHz, “172 172 172 000”, S9+, very strong SSB signal.
2020 UTC, 10,766 kHz, also S9+.

12-July-17:-
2000 UTC, 12,166 kHz, “172 172 172 1 65248” for a full message, DK/GC “8960 31” x 2, over S9.
2020 UTC, 10,766 kHz, and 2040 UTC, 9,266 kHz, repeats, both over S9.

26-July-17:-
2000 UTC, 12,166 kHz, “172 172 172 000”, S9+.

2-Aug-17:-
2000 UTC, 12,166 kHz, “172 172 172 000”, S9+.

9-Aug-17:-
2000 UTC, 12,166 kHz, and 2020 UTC, 10,766 kHz, both S9+, “172 172 172 000”.

E11

E11 log July/Aug

4783kHz	1605z	11/07 [236/00] Out 1608z S2	Malc, RNGB	TUE
	1605z	01/08 [232/00]	Ary, Malc	TUE
	1605z	06/08 [233/00] Out 1608z S3	Malc, Thomas	SUN
	1605z	08/08 [238/00] Out 1608z S2	Malc	TUE
	1605z	13/08 [236/00] Out 1708z S4	Malc, Thomas	SUN
	1605z	22/08 [232/00] Out 1608z S2	Malc	TUE
	1605z	27/08 [230/00] Out 1608z S2	Malc, Thomas	SUN
6280kHz	0820z	03/07 [430/00] Out 0823z S3	Malc, RNGB	MON
	0820z	06/07 [434/00] Out 0823z S2	Malc	THU
	0820z	10/07 [432/00] Out 0823z S2	Malc	MON
	0820z	13/07 [434/00] Out 0823z S4	Malc	THU
	0820z	17/07 [438/00] Out 0823z S2	Malc, RNGB	MON
	0820z	20/07 [435/00] Out 0823z S2	Malc, RNGB	THU
	0820z	31/07 [432/00] Out 0823z S6	Malc	MON
	0820z	03/08 [436/00] Good	RNGB	THU
	0820z	10/08 [431/00] Out 0823z S3	Malc	THU
	0820z	14/08 [435/00] Out 0823z S2	Malc	MON
	0820z	17/08 [432/00] Out 0823z S2	Malc	THU
	0820z	21/08 [432/00] Out 0823z S2	Malc	MON
	0820z	24/08 [432/00] Out 0823z S2	Malc	THU
6304kHz	1205z	04/07 [461/00] Weak	RNGB	TUE
	0930z	05/07 [276/00] Out 0933z S2	Malc	WED
	1205z	05/07 [463/00] Out 1208z S3	Malc	WED
	0930z	06/07 [279/00] Out 0933z S2	Malc	THU
	1205z	11/07 [464/00] Out 1208z S2	Malc	TUE
	1205z	12/07 [460/00] Out 1208z S2	Malc, RNGB	WED
	1205z	18/07 [460/00] Out 1208z S2	Malc	TUE
	0930z	19/07 [278/00]	RNGB	WED
	1205z	19/07 [465/00] Out 1208z S2	Malc	WED
	0930z	20/07 [277/00] Out 0933z S3	Malc	THU

	1205z	01/08 [461/00]	Ary, Malc, Thomas	TUE
	0930z	02/08 [275/00]	RNGB	WED
	1205z	02/08 [465/00] Out 1208z S2	Malc	WED
	0930z	03/08 [279/00]	RNGB	THU
	1205z	08/08 [466/00]	RNGB	TUE
	1205z	09/08 [466/00] Out 1208z S2	Malc	WED
	1205z	15/08 [463/00] Out 1208z S2	Malc	TUE
	0930z	16/08 [278/00] Fair	RNGB	WED
	1205z	16/08 [463/00] Weak	RNGB	WED
	0930z	17/08 [278/00]	RNGB	THU
	0930z	23/08 [271/00] Out 0933z S2	Malc, Thomas	WED
	0930z	24/08 [277/00] Out 0933z S2	Malc	THU
	1205z	29/08 [461/00] Out 1208z S2	Malc	TUE
	0930z	31/08 [275/00] Out 0933z	Ed Smith, Malc	THU
6480kHz	0710z	08/07 [491/00]	Ary	SAT
	0710z	22/07 [495/00] Fair	RNGB	SAT
	0710z	23/07 [491/00] Out 0713z S6	Malc, RNGB	SUN
	0710z	30/07 [491/00] Out 0713z S2	Malc	SUN
	0710z	05/08 [492/00]	RNGB	SAT
	0710z	06/08 [498/00] Out 0713z S3	Malc	SUN
	0710z	19/08 [496/00] Out 0713z S2	Malc	SAT
	0710z	26/08 [496/00] Out 0713z S2	Malc	SAT
7469kHz	0450z	07/08 [410/00]	Ary	MON
	0453z	14/08 [410/00]	'E'	MON
7600kHz	0530z	06/07 [644/00] Out 0533z	Ed Smith	THU
	0530z	20/07 [648/00] Strong	RNGB	THU
	0530z	24/07 [640/00]	Ary	MON
	0530z	27/07 [644/00]	Thomas	THU
	0530z	03/08 [643/00]	Ary	THU
	0530z	07/08 [643/00]	Ary	MON
	0630z	10/08 [643/00] Out 0632z	Ed Smith	THU
	0532z	14/08 [648/00]	'E'	MON
	0530z	28/08 [647/00]	Ary	MON
7984kHz	1730z	01/07 [404/00] Out 1733z S9	Malc	SAT
	1730z	05/07 [400/00] Out 1733z S5	Malc	WED
	1730z	08/07 [408/00] Out 1733z	Ed Smith	SAT
	1730z	19/07 [404/00] Strong	RNGB	WED
	1730z	26/07 [577/00] Out 1733z	Ed Smith	WED
	1730z	29/07 [405/00] Out 1733z S7	Malc	SAT
	1730z	09/08 [404/00] Out 1733z S9	Malc	WED
	1730z	12/08 [408/00] Out 1733z S9	Malc	SAT
	1730z	16/08 [400/00] Out 1733z S9+10	Malc	WED
	1730z	19/08 [406/00] Out 1733z S9	Malc	SAT
	1730z	23/08 [408/00] Out 1733z S9	Malc	WED
	1730z	26/08 [409/00]	Thomas	SAT
	1730z	30/08 [409/00] Out 1733z S9+10	Malc	WED
8088kHz	1730z	06/07 [414/00] Out 1733z S4	Malc	THU
	1730z	13/07 [413/00] Out 1733z S3	Malc	THU
	1730z	20/07 [412/00] Out 1733z S4	Malc	THU
	1730z	10/08 [413/00] Out 1733z S7	Malc	THU
	1730z	17/08 [412/00] Out 1733z S9	Malc	THU
	1730z	24/08 [416/00] Out 1733z S6	Malc	THU
8530kHz	2000z	14/07 [573/00] Out 2003z S5	Malc, RNGB	FRI
	2000z	28/07 [570/00]	Thomas	FRI
	2000z	04/08 [574/00] Out 2003z S7	Malc	FRI
	2000z	11/08 [579/00] Out 2003z S9	Malc	FRI
	2000z	25/08 [579/00] Out 2003z S9	Malc	FRI
8565kHz	0315z	20/07 [250/00] Out 0318z	Ed Smith	THU
	0315z	02/08 [252/00] Out 0318z	Ed Smith	WED
	0315z	10/08 [253/00]	Ary	THU
9079kHz	0805z	08/07 [314/00]	Ary	SAT
	0805z	15/07 [313/00] Out 0808z S2	Malc	SAT
	0805z	16/07 [311/00] Out 0808z S2	Malc	SUN
	0805z	22/07 [315/00] Out 0808z S2	Malc, RNGB	SAT

	0805z	29/07 [310/00] Good	RNGB	SAT
	0805z	30/07 [315/00] Out 0808z S3	Malc	SUN
	0805z	05/08 [313/00] Out 0808z S5	Malc, RNGB	SAT
	0805z	06/08 [313/00]	Ary, Malc	SUN
	0805z	19/08 [316/00] Out 0808z S3	Malc	SAT
	0805z	20/08 [315/00]	Ary, Thomas	SUN
	0805z	26/08 [311/00] Out 0808z S6	Malc	SAT
	0805z	27/08 [313/00]	Ary, Malc, Thomas	SUN
9130kHz	2005z	15/07 [364/00] Out 008z S7	Malc, RNGB	SAT
	2005z	16/07 [367/00] Out 2008z S2	Malc	SUN
	2005z	23/07 [366/00] Out 2008z S7	Malc	SUN
	2005z	29/07 [364/00] Out 2008z S7	Malc	SAT
	2005z	30/07 [360/00] Out 2008z S9	Malc, Thomas	SUN
	2005z	05/08 [369/00] Strong	RNGB	SAT
	2005z	06/08 [369/00] Out 2008z S8	Malc	SUN
	2000z	13/08 [366/00] Out 2003z S6	Malc	SUN
	2005z	19/08 [364/00] Out 2008z S6	Malc	SAT
9610kHz	0745z	03/07 [261/00] Out 0748z S3	Malc, RNGB	MON
	1910z	07/07 [611/00] Good	RNGB	FRI
	0745z	17/07 [269/00] Out 0748z S2	Malc, RNGB	MON
	0745z	24/07 [264/00] Out 0748z S3	Malc, Ary	MON
	0745z	31/07 [264/00] Out 0748z S6	Malc, Thomas	MON
	1910z	04/08 [618/00] Out 1913z S5	Malc	FRI
	1910z	06/08 [610/00] Out 1913z S5	Malc	SUN
	0745z	07/08 [267/00]	Ary, Malc	MON
	1910z	11/08 [618/00] Out 1913z S5	Malc	FRI
	0745z	21/08 [267/00] Out 0748z S4	Malc	MON
	1910z	27/08 [610/00] Out 1913z S7	Malc	SUN
	0745z	28/08 [266/00] Out 0748z S2	Malc	MON
10356kHz	1530z	06/07 [266/00]	dmhz	THU
	1530z	20/07 [266/00]	Gary H, Malc	THU
	1530z	10/08 [264/00] Out 1533z S9	Malc	THE
	1530z	24/08 [262/00] Out 1533z S3	Malc	THU
	1530z	31/08 [261/00]	Gary H	THU
10429kHz	0710z	04/07 [639/00] Out 0713z S2	Malc	TUE
	0710z	07/07 [634/00]	RNGB	FRI
	0710z	18/07 [636/00] Out 0713z S3	Malc, RNGB	TUE
	0710z	21/07 [631/00] Out 0713z S4	Malc, RNGB	FRI
	0710z	25/07 [633/00] Out 0713z S3	Malc, RNGB	TUE
	0710z	27/07 [635/00]	RNGB	FRI
	0710z	01/08 [639/00] Out 0713z S2	Malc, RNGB	TUE
	0710z	04/08 [631/00]	Thomas, RNGB	FRI
	0710z	08/08 [636/00] Out 0713z S2	Malc	TUE
	0710z	11/08 [634/00] Out 0713z S4	Malc	FRI
	0710z	15/08 [633/00] Out 0718z S3	Malc	TUE
	0710z	18/08 [639/00] Out 0713z S4	Malc, RNGB	FRI
	0710z	29/08 [630/00] Out 0713z S7	Malc	TUE
11581kHz	1300z	01/07 [588/00] Out 1303z S5	Malc, RNGB	SAT
	1925z	11/07 [558/00] Out 1928z S7	Malc	TUE
	1300z	13/07 [587/00] Out 1303z S5	Malc	THU
	1300z	15/07 [583/00] Out 1303z S3	Malc	SAT
	1925z	18/07 [553/00] Out 1928z S5	Malc	TUE
	1925z	20/07 [557/00] Out 1928z S3	Malc	THU
	1300z	22/07 [585/00] Out 1303z S4 QRM	Malc	SAT
	1925z	25/07 [550/00]	Gary H	TUE
	1925z	27/07 [558/00]	Thomas	THU
	1925z	01/08 [558/00] Strong	'E', RNGB	TUE
	1925z	03/08 [551/00] Strong	RNGB	THU
	1300z	05/08 [581/00] Out 1303z S5	Malc	SAT
	1925z	08/08 [556/00] Out 1928z S9	Malc, RNGB	TUE
	1300z	10/08 [589/00] Out 1303z S7	Malc	THU
	1925z	17/08 [551/00] Out 1928z S9	Malc, Gary H	THU
	1300z	19/08 [586/00] Out 1303z S9	Malc	SAT
	1925z	22/08 [557/00] Out 2028z S6	Malc	TUE
	1925z	24/08 [556/00] Out 1928z S3	Malc	THU
	1300z	31/08 [586/00] Out 1303z S6	Malc	THU

12202kHz	0845z	18/07 [152/00]	Ed Smith	TUE
	0845z	20/07 [154/00] Out 0848z	Ed Smith	THU
	0845z	25/07 [150/00] Out 0838z S6	Malc, RNGB	TUE
	0845z	27/07 [156/00]	RNGB	THU
	0845z	01/08 [150/00]	Ary, Malc	TUE
	0845z	03/08 [155/00] Good	RNGB	THU
	0845z	15/08 [154/00] Out 0848z S4	Malc, RNGB	TUE
	0845z	17/08 [150/00] Out 0848z S6	Malc	THU
	0845z	22/08 [155/00] Out 0848z S4	Malc	TUE
	0845z	24/08 [152/00] Out 0848z S4	Malc	THU
	0845z	29/08 [150/00] Out 0848z S4	Malc	TUE
	0845z	31/08 [151/00] Out 0848z S6	Malc	THU
12397kHz	1000z	11/07 [300/00] Out 1003z S2	Malc	TUE
	1000z	14/07 [304/00] Out 1003z S5	Malc	FRI
	1000z	18/07 [300/00] Out 1003z S6	Malc, RNGB	TUE
	1000z	21/07 [307/00] Out 1010z S7	Malc, RNGB	FRI
	1000z	25/07 [305/00] Out 1003z S5	Malc	TUE
	1000z	28/07 [304/00] Out 1003z	Ed Smith	FRI
	1000z	01/08 [309/00]	Ary	TUE
	1000z	15/08 [304/00]	Gary H, Malc	TUE
	1000z	18/08 [302/001 Out 003z S5 QSB3	Malc	FRI
	1000z	22/08 [309/00] Out 1003z S3	Malc	TUE
	1000z	25/08 [302/00] Out 1010z S7	Malc	FRI
13424kHz	0645z	04/07 [515/00] Out 0648z S3	Malc	TUE
	0645z	06/07 [517/00] Weak	RNGB	THU
	0645z	11/07 [519/00] Out 0648z S2	Malc	TUE
	0645z	13/07 [518/00] Out 0648z S3	Malc	THU
	0645z	18/07 [510/00] Out 0648z S5	Malc	TUE
	0645z	20/07 [514/00] Out 0748z S3	Malc, RNGB	THU
	0645z	01/08 [519/00] Out 0648z S5	Malc, RNGB	TUE
	0645z	10/08 [517/00] Out 0648z S5	Malc	THU
	0645z	15/08 [511/00] Out 0648z S3	Malc, RNGB	TUE
	0645z	22/08 [517/00] Out 0648z S5	Malc	TUE
	0645z	24/08 [511/00] Out 0648z S2	Malc	THU
	0645z	29/08 [519/00] Out 0648z S7	Malc	TUE
13427kHz	0900z	03/07 [538/00] Out 0903z S3	Malc, RNGB	MON
	0900z	05/07 [536/00] Out 0903z S2	Malc	WED
	0900z	10/07 [532/00] Out 0903z S7	Malc	MON
	0900z	12/07 [536/00] Out 0903z S7	Malc	WED
	0900z	17/07 [530/00] Out 0903z S4	Malc, RNGB	MON
	0900z	19/07 [535/00]	RNGB	WED
	0900z	31/07 [533/000 Out 903z S3	Malc, RNGB	MON
	0900z	02/08 [537/00] Out 0903z S5	Malc	WED
	0900z	07/08 [536/00] Weak	RNGB	MON
	0900z	09/08 [530/00] Out 0903z S3	Malc	WED
	0900z	14/08 [533/00] Out 0903z S4	Malc	MON
	0900z	28/08 [538/00] Out 0903z S2	Malc	MON
	0900z	30/08 [536/00] Out 0903z S2	Malc	WED
13537kHz	1225z	10/07 [528/00] Out 1228z S4	Malc	MON
	1225z	14/07 [521/00] Out 1228z	Ed Smith	FRI
	1225z	17/07 [525/00] Out 1228z S4	Malc	MON
	1225z	21/07 [527/00] Out 1228z S6	Malc	FRI
	1225z	24/07 [525/00] Out 1228z S6	Malc	MON
	1225z	28/07 [528/00]	Thomas	FRI
	1225z	31/07 [521/00]	Gary H	MON
	1225z	04/08 [524/00]	Thomas	FRI
	1225z	07/08 [522/00] Out 1228z S6	Malc	MON
	1225z	21/08 [520/00] Out 1228z S3	Malc	MON
	1225z	25/08 [525/00] Out 1228z S4	Malc	FRI
	1225z	28/08 [521/00] Out 1228z S5	Malc	MON
13873kHz	1045z	04/07 [576/00] Out 1048z S3	Malc	TUE
	1045z	11/07 [576/00] Out 1048z	Ed Smith, RNGB	TUE
	1045z	25/07 [577/00] Out 1048z S4	Malc	TUE
	1045z	01/08 [574/00]	Ary, Malc, Thomas	TUE
	1045z	08/08 [574/00] Out 1048z S5	Malc	TUE
	1045z	22/08 [570/00] Out 1048z S3	Malc, Thomas	TUE
	1045z	29/08 [576/00] Out 1048z S3	Malc	TUE

13911kHz	0820z	11/07 [132/00] Out 0823z S4	Malc, RNGB	TUE
	0820z	12/07 [135/00] Out 0823z S4	Malc	WED
	0820z	18/07 [135/00] Out 0823z S4	Malc	TUE
	0820z	19/07 [138/00] Out 0823z S5	Malc	WED
	0820z	25/07 [135/00] Out 0823z S6	Malc, RNGB	TUE
	0820z	26/07 [131/00]	RNGB	WED
	0820z	01/08 [136/00]	Ary, Malc, Thomas	TUE
	0820z	02/08 [130/00]	RNGB	WED
	0820z	08/08 [130/00] Out 0823z S7	Malc	TUE
	0820z	09/08 [130/00] Out 0823z S4	Malc	WED
	0820z	22/08 [138/00] Out 0823z S3	Malc	TUE
	0820z	23/08 [132/00] Out 0823z S3	Malc	WED
	0820z	29/08 [132/00] Out 0823z S5	Malc	TUE
	0820z	30/08 [131/00] Out 0823z S2	Malc	WED
14410kHz	1745z	10/07 [240/00] Out 1745z S2	Malc	MON
	1745z	17/07 [247/00] Out 1748z S1	Malc	MON
	1745z	16/07 [242/00] Out 1748z S2	Malc	SUN
	1745z	30/07 [242/00]	Gary H	SUN
	1745z	31/07 [244/00] Out 1748z S7	'E', Malc	MON
	1745z	06/08 [242/00] Out 1748z S3	Malc	SUN
	1745z	14/08 [247/00]	Gary H	MON
	1745z	20/08 [249/00]	Gary H	SUN
	1745z	21/08 [246/00] Out 1748z S3	Malc	MON
	1745z	27/08 [242/00] Out 1748z S2	Malc	SUN
14575kHz	1645z	25/07 [337/00] Out 1648z S4	Malc	TUE
	1645z	01/08 [332/00]	Ary, Malc	TUE
	1645z	03/08 [332/00] Good	RNGB	THU
	1645z	08/08 [338/00] out 1648z S4	Malc	TUE
	1645z	22/08 [331/00] Out 1648z S3	Malc	TUE
14865kHz	1705z	01/07 [394/00] Out 1708z S9	Malc	SAT
	1705z	05/07 [393/00] Out 1708z S9	Malc	WED
	1705z	12/07 [399/00] Out 1708z S4	Malc	WED
	1705z	15/07 [395/00] Out 1708z S2	Malc	SAT
	1705z	19/07 [393/00] Good	RNGB	WED
	1705z	09/08 [394/00] Out 1708z S5	Malc	WED
	1705z	12/08 [393/00] Out 1708z S3	Malc	SAT
	1705z	16/08 [394/00] Out 1708z S2	Malc	WED
	1705z	19/08 [392/00] Out 1708z S9+10	Malc	SAT
	1705z	26/08 [399/00]	Thomas	SAT
14940kHz	1650z	30/08 [397/00] Out 1708z S1	Malc	WED
	1650z	14/07 [926/00] Out 1653z S2	Malc	FRI
	1650z	21/07 [921/00] Out 1653z S5	Malc	FRI
	1650z	23/07 [920/00] Out 1653z S5	Malc, RNGB	SUN
	1650z	30/07 [925/00] out 1653z S5	Malc	SUN
	1650z	04/08 [926/00] Out 1653z S2	Malc	FRI
	1650z	06/08 [926/00]	Gary H, Malc, Thomas	SUN
	1650z	11/08 [929/00] Out 1653z S7	Malc	FRI
	1650z	25/08 [929/00] Out 1653z S6	Malc	FRI
	1650z	27/08 [926/00] Out 1653z S2	Malc	SUN
15720kHz	0745z	12/07 [346/00] Out 0748z S5	Malc	WED
	0745z	14/07 [348/00] Out 0748z S7	Malc	FRI
	0745z	19/07 [348/00] Out 0748z S3	Malc	WED
	0745z	21/07 [349/00] Out 0748z S2	Malc, RNGB	FRI
	0745z	26/07 [342/00] Weak	RNGB	WED
	0745z	02/08 [344/00]	RNGB	WED
	0745z	04/08 [348/00]	Thomas	FRI
	0745z	09/08 [340/00] Out 0748z S4	Malc	WED
	0745z	11/08 [348/00] Out 0748z S5	Malc	FRI
	0745z	23/08 [343/00]	Ary	WED
	0745z	25/08 [344/00] Out 0748z S5	Malc	FRI
	0745z	30/08 [349/00] Out 0748z S3	Malc	WED
15795kHz	1625z	12/07 [972/00] Out 1628z S4	Malc	WED
	1625z	19/07 [975/00]	RNGB	WED
	1625z	23/07 [975/00] Out 1608z S3	Malc	SUN
	1625z	30/07 [975/00] Out 1628z S5	Malc	SUN

	1625z	06/08 [975/00] Out 1628z S3	Malc, Thomas	SUN
	1625z	09/08 [972/00]	Thomas	WED
	1625z	16/08 [977/00] Out 1728z S6	Malc, Gary H	WED
15800kHz	0640z	03/07 [946/00] Out 0643z S3	Malc	MON
	0640z	05/07 [945/00] Out 0743z S3	Malc, RNGB	WED
	0640z	12/07 [945/00] Out 0643z S4	Malc	WED
	0600z	14/07 [183/00] Out 0603z	Ed Smith	FRI
	0600z	24/07 [184/00] Weak	RNGB	MON
	0600z	28/07 [400/00] Out 0603z	Ed Smith	FRI
	0600z	31/07 [182/00] Weak	RNGB	MON
	0640z	02/08 [940/00] Out 0643z S5	Malc, RNGB	WED
	0600z	04/08 [182/00]	RNGB	FRI
	0600z	07/08 [185/00] Good	RNGB	MON
	0640z	07/08 [945/00] Weak	RNGB	MON
	0640z	09/08 [942/00] Out 0643z	Ed Smith	WED
	0600z	11/08 [189/00]	Ary	FRI
	0600z	28/08 [182/00]	Ary	MON
	0640z	28/08 [940/00]	Malc	MON
15825kHz	1345z	15/07 [919/00] Out 1345z S2	Malc	SAT
	1345z	15/08 [917/00] Out 1348z S2	Malc	TUE
	1345z	19/08 [915/00] Out 1348z S3	Malc	SAT
<u>E11a log July/Aug</u>				
4783kHz	1605z	25/07 [236/32 86714.....40885] Out 1614z S3	Malc	TUE
	1605z	30/07 [236/32 86714.....etc] Repeat of Tuesday	Malc	SUN
	1605z	15/08 [233/39 01699.....14129] Out 1615z S6	Malc	TUE
5149kHz	0455z	01/08 [326/34 54439 27395 13116 48186 31261 95751 15949 78338.....39749 46281]	Ary	TUE
6280kHz	0820z	24/07 [434/31 20079 12133 75806 82274 86258 89368 89447 31620 96253] Out 0829z S3	Ary, Malc	MON
	0820z	28/08 [434/40 20981.....11683] Out 0823z S3	Malc	MON
	0820z	31/08 [434/40 20981.....etc] Repeat of Monday	Malc	THU
6304kHz	0930z	12/07 [273/33 25693.....21985] Out 0939z S2	Malc	WED
	1205z	25/07 [463/37 28223.....56966] Out 1215z S2	Malc	TUE
	0930z	09/08 [277/39 13017.....97872] Out 0941z S2	Malc	WED
	0930z	10/08 [277/39 13017 29201 38954 97872] Out 0940z	Ed Smith	THU
	1205z	22/08 [461/37 22135.....46176] Out 1215z S2	Malc	TUE
	1205z	23/08 [461/37 22135.....etc] Repeat of Tuesday	Malc	WED
	1205z	30/08 [468/41 44174 10032 09351 50883 49427 24089 18028.....87498 64944]	Ary, Malc	WED
6480khz	0710z	16/07 [498/31 05837 71218 85607 77281 91046 9355021994] Out 0719z S3	RNGB, Malc	SUN
	0710z	12/08 [490/40 02103.....80512] Out 0721z S3	Malc	SAT
7469kHz	0450z	24/07 [411/40 88073 56038 27176 95951 41815 78198 65831.....65696 43496]	Ary	MON
	0450z	28/08 [414/36 06891 14297 41934 78647 54665 45984 84094.....29366 49722]	Ary	MON
7600kHz	0531z	10/07 [641/33]	'E'	MON
	0530z	13/07 [641/33 49814 53682 89575 50637 49998 49310 97928.....80070 28763] Out 0539z	Ed Smith	THU
7984kHz	1730z	12/07 [403/31 22984.....07525] Out 1739z S6	Malc	WED
	1730z	15/07 [403/31 22984.....etc] Repeat of Wednesday	Malc	SAT
	1730z	05/08 [404/37 86103.....23656] Out 1740z S8	Malc	SAT
8088kHz	1730z	31/08 [415/36 06891.....49722] Out 1741z S6	Malc	THU
8530kHz	2000z	21/07 [571/35 10714 60356 68797 27295 67727 81287 93878 55426.....52446 67320] Strong	RNGB	FRI
	2000z	18/08 [379/39 30320.....97429] Out 2005z S8	Malc	FRI
8565kHz	0315z	28/06 [250/36 99849 00973 28623 85982 40338 79719 03064.....46502 93602] Out 0325z	Ed Smith	WED
9079kHz	0805z	02/07 [313/32 40399 10169 03847 07064 95140 20551 86577.....49569 56193]	RNGB	SUN
	0805z	12/08 [313/39 65599 04518 70350 16887 88189 27357 07251 52160.....50727 59525]	RNGB	SAT
	0805z	13/08 [313/39 65599.....59525] Out 0816z S3	Malc	SUN
9130kHz	2005z	01/07 [360/40 32138.....12004] Out 2016z S5	Malc	SAT
	2005z	26/08 [368/38 65208.....35392] Out 2015z S7	Malc	SAT
9610kHz	0745z	10/07 [262/33 74583.....87535] Out 0754z S3	Malc	MON

1910z	21/07 [610/37 76711 15846 68588 36205 47151 95291 23941 36557 23809.....51486 56351]	RNGB	FRI
1910z	23/07 [610/37 76711.....56351] Out 1920z S6	Malc	SUN
0745z	14/08 [261/31 97828.....41717] Out 0754z S4	Malc	MON
1910z	18/08 [617/36 03315 46209 69950 17171 76606 66567 06921.....75517 13995] Out 1959z S5	RNGB, Malc	FRI
10356kHz 1530z	13/07 [262/33 74583.....87535] Out 1539z S6	Malc	THU
1530z	17/08 [261/31 97828.....41717] Out 1539z S7	Malc	THU
10429kHz 0710z	11/07 [636/31 55931 47299 04042 04941 09794 69536 92287.....90373 34256] Out 0719z S4	Ed Smith, Malc	TUE
0710z	14/07 [636/31 55931.....etc] Repeat of Tuesday	Malc, RNGB	FRI
0710z	22/08 [633/37 78402.....65201] Out 0720z S2	Malc	TUE
0710z	25/08 [633/37 78402.....etc] Repeat of Tuesday	Malc	FRI
11581kHz 1925z	06/07 [553/39 52663.....77741] Out 1935z S2	Malc	THU
1300z	24/08 [583/38 41118.....etc] Out 1310z S5	Malc	THU
1300z	26/08 [583/38 41118.....etc] Repeat of Thursday	Malc	SAT
1925z	31/08 [552/33 78869.....56276] Out 1935z S5	Malc	THU
12202kHz 0845z	08/08 [157/26 00580 10809 19873 07285 85809 75481 76872.....57290 24671] Out 0853z	RNGB, Ed Smith	TUE
	10/08 [157/26 00580.....24671] Out 0853z S9	Malc	THU
12397kHz 1000z	08/08 [305/37 43756 48393 78613 09985 76093 08648.....32149 02763]	RNGB	TUE
1000z	11/08 [305/37 43756 48393.....32149 01763] 1010z S7	Ed Smith, Malc	FRI
13424kHz 0645z	25/07 [514/39 86538 10919 08922 93085 44085 99744 66195.....91273 34149] Out 0655z S8	Ary, RNGB, Malc	TUE
0645z	03/08 [517/36 17190 25981 50177 33106 98475 77199 65963.....14377 81846]	RNGB, Ary	THU
13427kHz 0900z	24/07 [535/33 98300 81093 07640 68491 88106 29867 69735 67753 59803] Out 0909z S6	Ary, Malc	MON
0900z	21/08 [530/31 03991.....66261] Out 0909z S3	Malc	MON
0900z	23/08 [530/31 03991.....etc] Repeat of Monday	Malc	WED
13537kHz 1225z	03/07 [525/34 73409.....54064] Out 1228z S6	Malc	MON
1225z	07/07 [525/34 73409 12154 89221 40978 13455 16634 28246.....77001 54064] Out 1235z	Ed Smith	FRI
1225z	14/08 [527/31 40588.....31798] Out 1234z S8	Malc	MON
13873kHz 1045z	18/07 [571/35 10714 60356 68797 27295 67727 81287 93878.....67310] Out 1055z S4	RNGB, Malc	TUE
1045z	15/08 [570/37 30320.....97429] Out 1056z S5	Malc	TUE
13911kHz 0820z	04/07 [132/35 81639 62862 51179 25088 60014 12925 55839.....33291 72458] Out 0830z S7	RNGB, Malc	TUE
0820z	05/07 [130/35 81639.....etc] repeat of Tuesday	Malc	WED
0820z	15/08 [130/34 18379 34157 32095 71192 11334 03005 62771.....0355712168] Out 0830z S4	RNGB, Malc	TUE
0820z	16/08 [130/34 18379.....etc] Repeat of Tuesday	Malc	WED
14410kHz 1745z	03/07 [245/40 68943.....42097] Out 1756z S5	Malc	MON
1745z	07/08 [240/33 38121 65376 88020 80387 49794 18472 05201.....18973 11929]	Ary, Malc	MON
1745z	13/08 [240/33 38121.....11929] Out 1754z S5	Malc	SUN
14575kHz 1645z	18/07 [330/32 10898.....07679] Out 1648z S3	Malc	TUE
1645z	20/07 [330/32 10898 83573 34923 45017 69433 29316 17000 50585.....19147 07679] Good	RNGB	THU
1645z	31/08 [334/35 54300.....etc] Out 1655z S2	Malc	THU
14865kHz 1705z	26/07 [391/31 63421.....] Weak	RNGB	WED
1705z	29/07 [391/31 63421.....26046] Out 1714z S6	Malc	SAT
1705z	05/08 [399/31 62057.....99007] Out 1714z S4 QRM	Malc	SAT
14940kHz 1650z	18/08 [924/32 20125.....36855] Out 1659z S5	Malc	FRI
15720kHz 0745z	05/07 [340/32 01751 80675 57359 06232 72241 32951 64196.....62759 25142] Out 0754z S4	RNGB, Malc	WED
0745z	16/08 [346/32 82907 27139 98853 99106 35306 00404 47562.....79026 44452] Out 0854z	RNGB, Malc	WED
0745z	18/08 [346/32 82907.....etc] Repeat of Wednesday	Malc	FRI
15795kHz 1625z	05/07 [977/32 01700.....90886] Out 1628z S4	Malc	WED
1625z	23/08 [978/32 83631.....17499] Out 1635z S2	Malc	WED
15800kHz 0840z	19/07 [942/20 61833 55718 94994 05957 89927 56157 58815.....14718 35168] Good	RNGB	WED
15825kHz 1345z	18/07 [912/40 07892.....30088?] Out 1356z S3 faded at end both times	Malc	TUE
1345z	22/07 [912/40 07892.....30086] Out 1356z S7	Malc	SAT
1345z	01/08 [915/38 55797 11344 91556 97020 31782 27450 92759 69413.....41427 56026]	Ary	TUE

Thursday**July 2017**

0800z	16780kHz	0810z	12850kHz	
06/07	674 901 5 09394 76911 75155 93918 97067 901 5 00000			Weak
13/07	674 901 5 09394 76911 75155 92918 97067 901 5 00000			Weak/Fair
20/07	674 238 5 36973 37967 89762 42149 46198 238 5 00000			Weak

August

0800z	16780kHz	0810z	12850kHz	
03/08	674 290 8 46062 68672 97478 39685 30485 96632 52537 53317 290 8 00000			
10/08	674 290 8 46062 68673 99478 39685 30485 96633 53537 53317 290 8 00000			
17/08	674 239 5 11394 30307 31450 38153 19650 239 5 00000			Weak
24/08	674 239 5 11394 30207 31450 38153 39650 239 5 00000			Weak/Fair
31/08	674 00000			Weak

E25

6140kHz	0759z	07/07	[012 MESSAGE! 8007 7121 4583 7452 3687 1727 8714 7345 REBEAT. 8007 7121 4583 7452 3687 1727 8714 7345 END OF MESSAGE. END OF TRANSMISSION] Via Ariel, Israel SDR AM dmhz Edd Smith
6140kHz	0930z	11/07	[333 MESSAGE! 2080 7660 7687 0967 2214 2593 9353 7660 REBEAT. 2080 7660 7687 0967 2214 2593 9353 7660 END OF MESSAGE. END OF TRANSMISSION] 0934z Via Ariel, Israel SDR AM dmhz Edd Smith
Notes: Lots of problems with PC. Long space of time in the repetition between 9353 and 7660. Two times EOM. After a pause during the repeat they continued missing out the group 7656.			
6140kHz	0745z	12/07	[250 MESSAGE! 4844 8021 9020 3175 7656 9158 4858 5927 5220 6336 3487 9020 REBEAT. 4844 8021 9020 3175 7656 9158 4858 5927 5220 6336 3487 9020 END OF MESSAGE. END OF TRANSMISSION] 0748z AM dzmz Edd Smith Via Ariel, Is. SDR AM
Failure in repeat of 7656 group. Cut out abruptly and repeated the message for third time			
6140kHz	0930z	12/07	[333 MESSAGE! 2080 7660 7687 0967 2214 2593 9353 7660 REBEAT. 2080 7660 7687 0967 2214 2593 9353 7660 (END OF...) REBEAT. 2080 7660 7687 0967 2214 2593 9353 7660 END OF MESSAGE. END OF TRANSMISSION] AM Via Ariel, Israel SDR dmhz Edd Smith
6140kHz	0800z	13/07	[012 MESSAGE! 9005 1831 4644 3059 5571 9837 7762 7296 REBEAT. 9005 1831 4644 3059 5571 9837 7762 7296 END OF MESSAGE. END OF TRANSMISSION] AM Via Ariel, Israel SDR dmhz
6140kHz	0805z	14/07	[012 MESSAGE! 9005 1831 4644 3059 5571 9837 7762 7296 REBEAT. 9005 1831 4644 3059 5571 9837 7762 7296 END OF MESSAGE. END OF TRANSMISSION] AM Via Ariel, Israel SDR Ary dmhz
6140kHz	0744z	16/08	[250 MESSAGE! 8141 9080 6120 2941 8868 2649 5587 6120 REBEAT. 8141 9080 6120 2941 8868 2649 5587 6120 END OF MESSAGE. END OF TRANSMISSION] AM Via Ariel, Israel SDR. Dmhz Notes: First repeat broke at last 2 groups. Message was repeated from the beginning. Carrier off at 0750z.

G06**Monday****July 2017**

0758 - 0800z	7320kHz	
03/07	329 00000	Weak
17/07	329 00000	Weak
1259z	5890kHz	
20/07	329 00000	G06/E06 voice 1303z Windows Shut off. USB
1700z	5471kHz	1800z 5764kHz
03/07	11 00000 111 111 1 carrier off [sent at 1710z, preceded by blank carrier at 1700z]	563 00000 at 1800z Good
10/07	563 00000	Fair

August 2017**0758 - 0800z****7325kHz**

07/08	329 00000	Windows shut down sound	Fair
21/08	329 00000	[7320kHz]	Fair

1700z	5471kHz	1800z	5764kHz
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07/08	563 00000		Fair
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5471 07-08-2017 1622 G06 USB 111 111 111 00000
5471 07-08-2017 1630 G06 USB 111 111 111 00000
5471 07-08-2017 1659 G06 USB 563 563 563 00000
5471 07-08-2017 1708 G06 USB 111 111 111 00000
5471 07-08-2017 1716 G06 USB 111 111 111 00000

5756 07-08-2017 1759 G06 USB 563 563 563 00000 Windows shut down sound
Courtesy Ary

14/08	563 00000		
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5471 14-08-2017 1621 G06 USB 111 111
5471 14-08-2017 1625 G06 USB Sounds instead of numbers, sent at the same pace
5471 14-08-2017 1629 G06 USB Sounds instead of numbers, sent at the same pace

5467 14-08-2017 1659 G06 USB 563 563 563 00000

5764 14-08-2017 1714 G06 USB 111 111 111 00000
5764 14-08-2017 1720 G06 USB 111 111 111 00000
5764 14-08-2017 1758 G06 USB 563 563 563 00000 Windows shut down sound
Courtesy Ary

Here is tiNG's log on this transmission:-

Expecting the transmission at 1700z on 5471kHz I heard “Magdeburg Annie” calling on 5470kHz (111 111 111 000) for several times at around 1635z. After Annie stopped she was on 5469kHz a minute later with the same. Stopping and another minute later she was on 5468 and, the same, finally on 5467kHz. After a few turns of “111 111 111 000” she went silent again and some Windows XP sounds appeared. The carrier stayed on 5467,0 with a slight humm in the background. Signal strength only on an amount of S3-4.

Wednesday**July 2017**

1159z	6924kHz	1259z	7368kHz
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05/07	563 00000	[111 111 111 00000 at 1205z]	[Shutdown sound at 1306z]
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1159z	6930kHz	1259z	7368kHz
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12/07	563 00000	[111 111 111 00000 at 1213z]	[Windows shutdown sound after 1259z transmission]
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August 2017

1159z	6924kHz	1259z	7360kHz
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09/08	563 00000		Weak
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6924kHz 1137z 09/08 [111 00000] 1141z USB Silec, Poland SDR.
6924kHz 1159z 09/08 [563 00000] 1203z USB Silec, Poland SDR.
6924kHz 1208z 09/08 [111 00000] 1211z USB Silec, Poland SDR.
Courtesy E.SMITH

16/08	563 00000		
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Thursday

1300z	5890kHz		
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06/07	329 00000	[111 111 111 00000 at 1226z]	[Preceded by Windows & followed by Windows shut down sound]
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20/07	(E06 was on the air instead of G06)		
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1830z	6887kHz		
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13/07	842 149 52 12265.....95732		Fair
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27/07	842 149 52 12265 10965..... 25124 95732 149 149 52 52 000000		
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842 149 52 149 52
12265 10965 47839 38654 84677 93453 72217 84393 24673 97564
21824 75643 84221 95647 92112 94543 76577 43435 47322 84232
95674 97344 57438 45763 49325 57438 92192 96785 21244 25674
21765 76354 83645 21234 97564 82133 27564 83234 75312 71211
25674 65374 67321 94884 23483 82521 41212 57333 85331 53234
25124 95732 149 149 52 52 000000
Courtesy HHJ

24/08 842 149 52 12265.....95732 149 52 00000 Strong

Friday

1930z 5935kHz

14/07 218 149 52 12265.....95732 149 52 00000 Strong

28/07 218 149 52 [Repeat of Thu 27/07] Fair

1930z 5933kHz

25/08 218 149 52 12265.....95732 149 52 00000 Strong

218 (R4m) 149 149 52 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 149 149 52 52 00000 Courtesy tiNG

Copied the same message on July 27th 1829z (THU) and its repeat on July 28th 1929z (FRI) tiNG

G06 Logs from PosW

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

13-July-17:- 6,887 kHz, started about fifteen seconds before the half hour, call “842”, DK/GC “149 149 52 52”, the message which first appeared in October of last year. Signal strength up and down during the transmission, sometimes up to S9 and then sinking into the noise. Ended after 1842 UTC, computer related chimes heard at around 1846:30s UTC followed by hum for a couple of minutes.

27-July-17:- 6,887 kHz, “842” and “149 149 52 52”, S9 signal.

24-Aug-17:- 6,884 kHz, slightly lower in frequency than usual, “842” and “149 149 52 52”, S9 signal, ended around 1843 UTC, computer shut-down musical notes at 1844:10s followed by audio hum, carrier off 1846 UTC.

Friday 1930 UTC Schedule Following Second + Fourth Thursdays.

14-July-17:- 5,935 kHz, call “218”, DK/GC “149 149 52 52”, strong signal on a quiet spot inside the 49 metre broadcast band.

25-Aug-17:- 5,933 kHz, “218” and “149 149 52 52” - still! S9 with rapid QSB.

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

3-July-17:- 1800 UTC 5,764 kHz, “563 563 563 00000”. Unable to find a transmission at 1700z, but subsequent study of the prediction list in En101 suggests 5,471.

10-July-17:- 1700 UTC, 5,466 kHz, not too far from the predicted frequency, “563 563 563 00000”.

1800 UTC, 5,764 kHz, second sending, started about ten seconds before the hour.

7-Aug-17:- 1659 UTC, 5,471 kHz, “563 563 563 00000”, weak signal competing with local interference.

1759 UTC, just before, 5,756 kHz, second sending, much stronger signal, S9.

S06

S06 log July 2017

Daily Mon- Fri 0400z 15721kHz

No reports

Thursdays

(Repeats following day)

0830z

15875kHz

0930z

13469kHz

06/07 ‘842’ 579 30 75825 93995 64114 04334 44995 28290 80450 23520 94377 72040 31346 78477 70283 50821 89773 34528 76646 45899 45039 28123
20305 89385 22335 83338 87239 14189 76210 98001 66957 44678 579 30 00000

13/07 ‘842’ 906 31 92031..... 94178 74035 16300 28164 ----- 92633 72065 92660 03274 71776 52843 82703 38445 93430 95075 88583 65945 43971
25772 96006 92586 23942 55055 67573 67316 906 31 00000 ??? (very poor copy)

20/07 ‘842’ 715 32 49048 41274 94533 67471 20487 27712 02134 28540 71145 57483 82901 39487 99214 53457 85721 92466 79106 30927 78249 56684
86519 91697 61087 68044 40399 02645 04330 30605 03984 69681 61154 03294 715 32 00000

27/07 ‘842’ 609 33 96038 13754 81617 61635 11539 66688 78444 81456 63575 64082 14262 18729 1-708 52710 67830 66756 91885 74504 59729 07989
92192 64011 83372 37896 05946 82664 70120 59249 51856 13309 55653 82747 19919 609 33 00000

Fridays (1st & 3rd)

1900z

9943kHz

2000z

7951kHz

(frequencies may vary slightly)

07/07 ‘514’ 00000

21/07 ‘514’ 00000

Saturdays (1st/3rd)

1900z

6801kHz

2000z

5931kHz

(frequencies may vary slightly)

01/07 ‘913’ 00000

15/07 ‘913’ 00000

Other: 10755kHz
04/07 in progress ‘975’ 368 51 50821 42306 50289 73409 00000] 0845z Ed Smith TUE

9463kHz
12/07 in progress 1037z [.. 18752 71247 07411 00599 73266 492 50 00000] Ed Smith WED Silec, Poland SDR.

S06c
No reports

S06s July log:

ID 438 found sending nulls on Monday 17th at 0600z on 9960khz, then at 0610z on 11130kHz, 0620z 12215kHz, 0630z 13430kHz, 0640z 14930kHz and 0650z on 16325kHz. Sendings continued daily but stopped by the weekend. Frequencies returned to the normal schedule the following week sending a null message. Guess it will send messages again at the beginning of August?

5858kHz 1306z 31/07 sending ‘124’ continuously until 1308z (No message sent) Silec, Poland SDR. Ed Smith MON

Monday

3rd/10th	0830/0840z	8221/9353	‘371’ 840 5 78637 56540 39895 07619 75292
17th/24th			‘371’ 206 5 84090 09531 88430 33240 61135
3rd/10th	0900/0910z	16380/14835	‘872’ 915 6 20205 64336 95534 08446 87636 04475
17th/24th			‘872’ 530 6 88146 57856 98835 46186 16945 80477
3rd/10th	1200/1210z	10230/12165	‘831’ 259 6 31467 53368 83168 98998 23291 86660
17th/24th			‘831’ 426 5 10544 98003 68909 45279 53006

Tuesday

4th/11th	0600/0610z	15945/16945	‘438’ 217 5 41127 88454 13285 68090 26008
25th			‘438’ 00000
4th/11th	0700/0715z	5430/6780	‘374’ 825 6 32314 34896 82738 36376 35675 65830
16th/23rd			‘374’ 265 8 96111 10544 98003 78909 45279 88280 84116 53718
4th/11th	0730/0740z	7365/11655	‘427’ 890 5 06022 32634 34661 47592 46281
18th/25th			‘427’ 908 5 65805 66610 20336 17301 88554
4th/11th	0800/0810z	14373/12935	‘352’ 861 7 47154 25660 69885 96882 30034 19804 96845
18th/25th			‘352’ 986 7 18139 57818 32007 36759 92939 47480 65297
4th/11th	1000/1010z	4820/5660	‘893’ 267 5 20205 32314 83638 36365 35685
18th/25th			‘893’ 205 6 46779 09123 18495 71851 35407 95075
4th/11th	1100/1110z	6810/7560	‘754’ 283 6 12362 84620 80171 58802 49062 16409
18th/25th			‘754’ 206 8 48756 14610 94619 67949 06475 40400 83726 95993
4th/11th	1500/1510z	6766/7744	‘537’ 241 6 43548 19—2 23063 36924 98924 24176?
18th/25th			‘537’ 908 6 16216 57859 17913 45084 17782 27700

Wednesday

5th/12th	0730/0840z	12110/14977	‘745’ 931 6 73687 04565 39895 91670 29257 59816
19th/26th			‘745’ 829 6 43334 30147 30494 43014 81051 46544
5th/12th	0820/0830z	9485/11085	‘471’ 258 6 92728 26090 08021 83535 15766 96551
19th/26th			‘471’ 869 5 40774 45983 48882 31151 32860
5th/12th	0830/0840z	11565/12560	‘464’ 927 5 92918 97067 58604 41438 03092
19th/26th			‘464’ 891 5 33699 39998 30667 35947 83964
5th/12th	1000/1010z	14580/16020	‘729’ 461 5 32214 34896 82738 36376 35685
19th/26th			‘729’ 431 5 30588 39344 37296 27378 44986

Thursday

6th/13th (E17z)	0800/0810z	16780/12850	‘674’ 901 5 09394 76911 75155 92918 97067
20th/27th			‘674’ 238 5 36973 37967 89762 42149 46198
6th/13th	0930/0940z	9255/10325	‘314’ 852 6 58604 41438 03092 68362 01653 95621
20th/27th			‘314’ 567 8 48007 37230 46446 43475 35453 38083 36584 35194
6th/13th	1200/1210z	13145/14535	‘425’ 916 7 95051 11808 71909 83981 24035 48115 14151
20th/27th			‘425’ 906 7 85327 54054 48467 44506 53466 47868 47360

Friday

7th/14th	0900/0910z	6844/7161	‘624’ 913 5 11749 70552 56936 57989 05371
21st/28th			‘624’ 978 5 42149 46198 36148 34433 36420
7th/14th	0930/0940z	10290/9655	‘516’ 480 7 65850 49884 66485 41299 81177 35685 36376
21st/28th			‘516’ 943 7 84217 43043 38367 33406 42366 37868 46793

Saturday

1st	0800/0810z	12460/10250	‘254’ 891 6 10471 11141 84895 96075 81620 43611
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Sunday

2nd/9th	0630/0640	16320/14875	‘524’ 967 8 46062 68672 94778 39685 30485 96632 52537 53317
16th/23rd			‘524’ 963 7 62318 93527 51283 52819 64327 83419 21397

S06 log August 2017

Daily Mon- Fri 0400z 15721kHz

No reports

Thursdays	(Repeats following day)	0830z	16327kHz	0930z	13875kHz
03/08	'842' 517 34 11084 62145 03179 36315 63544 40942 26793 38368 72906 79229 55585 69012 59061 72237 19594 22855 92096 30638 48321 03143 41926 47429 98922 31467 70590 78204 51294 91952 96926 83236 12241 20848 88284 04813 517 34 00000				
17/08	'842' 157 36 40848 00195 58396 31486 06016 42338 58758 22035 05089 82535 49813 57258 28879 79598 24432 70519 64297 43552 85057 10638 13419 49691 07741 30796 81783 98822 37132 32235 40615 47151 29606 48675 92666 54214 86737 82391 157 36 00000				
24/08	'842' 960 37 67640 08652 85391 76166 33707 06164 49385 80939 94783 63531 25738 58228 98599 68203 70714 59447 27690 35174 45877 00393 75950 83511 69496 62041 71389 43849 22746 65277 68499 14022 96621 49231 58704 05026 90516 07915 72302 960 37 00000				
31/08	'842' 175 38 08416 14667 97445 02796 80869 23201 96357 03069 33359 54076 56824 55672 46851 69515 51945 11043 73211 02266 87524 83523 85789 02249 04064 05093 66811 67292 99169 81141 05032 25129 06307 27996 02075 58855 90839 96859 10904 93034 175 38 00000				

Fridays (1st & 3rd)	1900z	9943kHz	2000z	7951kHz	(frequencies may vary slightly)
04/08	'514' 00000				
18/08	'514' 00000				

Saturdays (1st/3rd)	1900z	6801kHz	2000z	5931kHz	(frequencies may vary slightly)
05/08	'913' 00000				

Training?

Caught an S06 test Wed morning. The two messages below were repeated separately with the usual test - stop, starts and repeating of each.
S06 Test. **10755kHz** 0920z 30/08 (IP) USB E.SMITH WED
Standard S06 OM voice and Format.

'975' 584 10 55185 79781 17348 35300 68960 58344 19373 56774 54314 28294 584 10 00000 0926z
'975' (x3) 13468 (Rx3mins) Ended 0936z Ed Smith (Nice catch Ed)

S06c

5412kHz 1102z 15/08 I.P. sending '11021' Ended 1104z Silec, Poland SDR Ed Smith FRI

S06s August log:

Monday

7th/14th	0830/0840z	8221/9353	'371' 265 8 36628 32225 30867 49980 48995 40333 43389 30419
21st/28th			'371' 450 6 10107 60562 48015 36417 12362 84620
7th/14th	0900/0910z	16380/14835	'872' 510 6 82333 36958 39423 48076 37018 42300
21st/28th			'872' 935 6 32314 34896 83738 36375 36685 65850
7th/14th	1200/1210z	10230/12165	'831' 297 5 11394 30307 31450 38153 39650
21st/28th			'831' 274 5 19152 23063 36924 98924 08973

Tuesday

1st/8th	0600/0610z	15945/16945	'438' 267 5 39685 30485 96632 52537 53317
15th/22nd			'438' 927 5 25173 03528 51285 36295 21834
1st/8th	0700/0715z	5430/6780	'374' 829 5 98003 68909 45279 43828 55581
15th/22nd			'374' 205 6 24317 68577 86237 76652 18206 83390
1st/8th	0730/0740z	7365/11655	'427' 809 5 10544 98003 68909 45279 43828
18th/25th			'427' 910 5 98539 43324 98306 33149 07660
1st/8th	0800/0810z	14373/12935	'352' 816 7 60583 54545 50128 99477 83574 48874 94031
18th/25th			'352' 961 7 79961 04322 16527 39305 17303 80333 81227
1st/8th	1000/1010z	4820/5660	'893' 402 5 48115 24151 51802 23807 15521
18th/25th			'893' 407 5 88620 58069 61732 74537 57440
1st/8th	1100/1110z	6810/7560	'754' 291 6 88554 82045 36717 24042 75936 31670
18th/25th			'754' 803 6 21767 53672 11834 81022 36903 41412
1st/8th	1500/1510z	6766/7744	'537' 249 6 30485 96632 52537 53317 06675 41736
18th/25th			'537' 296 8 46062 68672 97478 39685 30485 96632 25537 53317

Wednesday

2nd/9th	0730/0840z	12110/14977	'745' 901 6 88620 58069 61732 74337 57440 10597
16th/23rd			'745' 296 8 37391 37446 86525 89203 33244 39054 35843 37633
2nd/9th	0820/0830z	9485/11085	'471' 203 5 48115 24151 51802 23807 15521
16th/23rd			'471' 835 6 36420 34433 36148 46198 42149 36914
2nd/9th	0830/0840z	11565/12560	'464' 902 5 42613 94529 64834 32012 42915
16th/23rd			'464' 253 7 40639 33180 48007 37240 46446 43475 35453
2nd/9th	1000/1010z	14580/16020	'729' 864 5 01405 15003 83574 48874 94031
16th/23rd			'729' 418 5 95384 41014 86760 83659 48190

Thursday

3rd/10th (E17z)	0800/0810z	16780/12850	'674' 290 8 46062 68672 97478 39685 30485 96632 52537 53317
17th/24th			'674' 239 5 11394 30307 31450 38153 39650
3rd/10th	0930/0940z	9255/10325	'314' 965 7 52401 63919 92699 14600 74248 48754 10597

17th/24th			'314' 850 6 82333 36958 39423 48076 33739 33384
3rd/10th	1200/1210z	13145/14535	'425' 986 7 40614 77249 40678 17976 21816 42997 94184
17th/24th			'425' 803 6 37016 34984 44220 84912 41866 83461
Friday			
4th/11th	0900/0910z	6844/7161	'624' 915 7 69901 92883 47660 23521 79501 04457 73547
18th/25th			'624' 807 5 48436 81480 47332 34067 94372
4th/11th	0930/0940z	10290/9655	'516' 907 8 11394 30307 31450 38153 39650 84498 48832 94372
18th/25th			'516' 843 7 73142 63829 01326 62318 52331 74537 92310
Saturday			
5th	0800/0810z	12460/10250	'254' 803 6 34031 33430 37536 34906 39698 35454
Sunday			
6th/13th	0630/0640	16320/14875	'524' 938 6 63823 42612 84529 42612 05634 63428
20th/27th			'524' 819 7 29427 70076 15802 97314 69816 29257 91670

PoSW S06/S06s Logs

Only two regular S06 Russian Man schedules to be heard in the UK evening time.

First + Third Fridays in the Month 2000 + 2100 UTC:-

7-July-17:- 2100 UTC, 7,951 kHz, "514 514 514 00000", S8 to S9, second sending, same frequency as in May and June, missed first transmission at 2000z, probably on 9,943 kHz, plus or minus.

21-July-17:- 2000 UTC, 9,948 kHz, "514 514 514 00000", peaking S8 to S9.
2100 UTC, 7,951 kHz, second sending, slightly weaker signal.

In the month of August this schedule performed the stunt for which it is famous, it shifted by one hour, not entirely unexpected:-

4-Aug-17:- 1900 UTC, 9,948 kHz, "514 514 514 00000", indicating around a "7" on the S-meter.
2000 UTC, 7,951 kHz, over S9.

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

15-July-17:- 1900 UTC, 6,801 kHz, "913 913 913 00000", S6 to S7.
2000 UTC, 5,931 kHz, second sending, stronger signal, over S9.

5-Aug-17:- 1900 UTC, 6,801 kHz, "913 913 913 00000", S9+.
2000 UTC, 5,931 kHz, over S9.

S06s, YL voice, schedules heard in the UK with reasonable signals:-

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

17-July-17:- 0830 UTC, 8,221 kHz, DK/GC "206 206 5 5", "84090 09531 88430 33240 61135", S7.
0840 UTC, 9,353 kHz, weak signal.

14-Aug-17:- 0830 UTC, 8,221 kHz, DK/GC "265 265 8 8", "36628 32225 30867 46980 48995 40333 43389 30419", S8 with QSB. Nothing heard at 0840z on 9,353.

21-Aug-17:- 0830 UTC, 8,221 kHz, DK/GC "450 450 6 6", "10107 60562 48015 36417 12362 84620".
0840 UTC, 9,353 kHz, no problem copying the second sending this morning.

Monday 1200 + 1210 UTC Schedule, Call "831":-

17-July-17:- Nothing heard of the 1200z predicted frequency 10,230 kHz, but the second sending heard:-
1210 UTC, 12,165 kHz, DK/GC "426 426 5 5", "10544 98003 68909 45279 53006", weak at first but came up to S7.

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

4-July-17:- 0730 UTC, 7,365 kHz, DK/GC "890 890 5 5", "06022 32634 34661 47592 46281", S8 over-riding a weaker broadcast station.
0740 UTC, 11,655 kHz, second sending, S9.

18-July-17:- 0730 UTC, 7,365 kHz, DK/GC "908 908 5 5", "65805 66610 20336 17301 88554", competing with the BC station on the same frequency.
0740 UTC, 11,655 kHz, second sending, over S9, a distinct pause noted between the "2" and "0" of 5F group number three when spoken for the second time, not noted on the 0730z sending.

25-July-17:- 0730 UTC, 7,365 kHz, DK/GC "908 908 5 5", 5Fs as on the 18th. S8, over-riding the weaker broadcast station.
0740 UTC, 11,655 kHz, second sending, S9 with QSB.

8-Aug-17:- 0740 UTC, 11,655 kHz, missed 0730z sending, DK/GC "809 809 5 5", "10544 98003 68909 45279 43828", over S9.

S11a**S11a log July/Aug**

4870kHz	1955z	14/07 [378/38 80239 36841 04684 65115 71196 50242.....61278 85185] Konyetz 2006z S9	RNGB, Malc	FRI
	1955z	19/07 [377/00] Konyetz1958z S8	Malc	WED
	1955z	21/07 [372/00] Strong	RNGB	FRI
	1955z	28/07 [376/00]	Thomas	FRI
	1955z	02/08 [372/00] Strong	RNGB	WED
	1955z	04/08 [379/00] Konyetz 1958z S9	'E', Malc	FRI
	1955z	09/08 [372/00]	Thomas	WED
	1955z	11/08 [370/00] Konyetz 1958z S9	Malc	FRI
	1955z	16/08 [379/39 40516.....66879] Konyetz 2007z S3 QSB2	Malc	WED
	1955z	18/08 [379/39 40816.....66867] Konyetz 2000z S9	Malc	FRI
	1955z	23/08 [372/00] Konyetz 1958z S8	Malc	WED
	1955z	25/08 [372/00] Konyetz 1958z S9	Malc	FRI
	1955z	30/08 [372/00] Konyetz 1958z S9	Malc	WED
5149kHz	0455z	07/07 [325/00] KOHEI 0458z	Ed Smith	FRI
	0455z	11/07 [327/00] KOHEI 0458z	Ed Smith	TUE
	0455z	14/07 [321/00] KOHEI 0458z	Ed Smith	FRI
	0455z	18/07 [322/39 54007 78450 23856 48676 59349 96800 96480.....67910 20260] KOHEI 0507z	Ed Smith	TUE
	0455z	01/08 [326/34 54439 27395 13116 48186 31261 95751 15949.....39749 46281] KOHEI 0506z	Ed Smith	TUE
	0455z	11/08 [327/00]	Ary	FRI
8530kHz	0915z	04/07 [483/00] S3	Malc	TUE
	0915z	11/07 [481/34 08430.....08715] Konyetz 0926z S5	Malc	TUE
	0915z	14/07 [481/34 08430 23481 74955 85260 02098 58869 75815 01342.....42810 08715]	RNGB, Malc	FRI
	0915z	18/07 [481/00] Konyetz 0918z S3	Malc, RNGB	TUE
	0915z	21/07 [480/00] Konyetz 0918z S3	Malc, RNGB	FRI
	0915z	25/07 [480/00] Konyetz 0918z S5	Malc, RNGB	TUE
	0915z	01/08 [485/00]	Ary, Malc	TUE
	0915z	04/08 [483/00]	Thomas	FRI
	0915z	08/08 [484/34 32730.....69779] Konyetz 0925z S4	Malc	TUE
	0915z	11/08 [484/34 32730 48322 02664 07110 75537 10730 23187.....23624 69779]	RNGB, Malc	FRI
	0915z	15/08 [481/00] Konyetz 0918z S3	Malc	TUE
	0915z	22/08 [485/00] Konyetz 0918z S3	Malc	TUE
	0915z	25/08 [485/00] Konyetz 0915z S3	Malc	FRI
	0915z	29/08 [484/00] Konyetz 0918z S4	Malc	TUE
8800kHz	1020z	04/07 [429/00] S3	Malc	TUE
	1020z	11/07 [429/00] KOHEI 1023z	Ed Smith, RNGB	TUE
	1020z	14/07 [426/00]	RNGB	FRI
	1020z	18/07 [422/33 05738 85688 65398 72129 58286 87676 29610.....84895 40392] Konyetz 1030z S2	Ed Smith, Malc	TUE
	1020z	21/07 [422/33 05738.....etc] Repeat of Tuesday	Malc	FRI
	1020z	25/07 [426/00] Konyetz 1023z S4	Malc	TUE
	1020z	01/08 [424/00]	Ary, Malc	TUE
	1020z	04/08 [425/00]	Thomas	FRI
	1020z	08/08 [421/00] Out 1023z S2	Malc	TUE
	1020z	11/08 [420/00] Konyetz 1023z S4	Malc	FRI
	1020z	15/08 [421/00] Konyetz 1023z S3	Malc	TUE
	1020z	18/08 [426/00] Konyetz 1023z S8	Malc	FRI
	1020z	22/08 [427/32 29726.....17594] Konyetz 1030z S8	Malc	TUE
	1020z	25/08 [427/32 29726.....etc] Repeat of Tuesday	Malc	FRI
	1020z	29/08 [429/00] Konyetz 1023z S5	Malc, RNGB	TUE
10210kHz	1015z	03/07 [472/00] Konyetz 1018z S2	Malc	MON
	1015z	06/07 [476/00] Konyetz 1018z S3	Malc	THU
	1020z	10/07 [471/31 45806.....34054] Konyetz 1029z S2	Malc	MON
	1015z	13/07 [470/00] Konyetz 1018z S2	Malc	THU
	1015z	17/07 [471/00] Konyetz 1018z S3	Malc	MON
	1015z	20/07 [479/00]	RNGB	THU
	1015z	24/07 [471/00] Konyetz 1018z S4	Malc, RNGB	MON
	1015z	31/07 [476/00] Konyetz 1018z S3	Malc	MON
	1015z	03/08 [478/00]	RNGB	THU
	1015z	07/08 [475/00] Konyetz 1018z S2	Malc, RNGB	MON
	1015z	14/08 [476/00] Konyetz 1018z S2	Malc	MON
	1015z	21/08 [470/40 92219.....37697] Konyetz 1028z S6	Malc	MON
11092kHz	1540z	01/07 [563/00] Konyetz 1543z S8	Malc	SAT

1540z	05/07 [565/00] Konyetz 1543z S7	Malc	WED
1540z	08/07 [560/00] KOHEI 1543z	Ed Smith	SAT
1540z	15/07 [567/36 73502.....18234] Konyetz 1551z S3	Malc	SAT
1540z	19/07 [563/00]	RNGB	WED
1540z	12/08 [565/33 25860 27156 16515 96435 88261 94193 70037.....59223 62297] KOHEI 1551z	Ed Smith	SAT
1540z	16/08 [565/00] Konyetz 1543z S2	Malc	WED
1540z	19/08 [561/00] Out 1543z S3	Malc	SAT
1540z	23/08 [569/00] Konyetz 1543z S4	Malc	WED
1540z	26/08 [569/00] Konyetz 1543z S4	Malc	SAT
12153kHz 1830z	03/07 [380/30 97561.....23223] Konyetz 1840z S4	Malc	MON
1830z	05/07 [380/30 97561.....etc] Repeat of Monday	Malc	WED
1830z	10/07 [383/00] Konyetz 1833z S2	Malc	MON
1830z	17/07 [389/00] Konyetz 1833z S2	Malc	MON
1830z	19/07 [382/00] Konyetz 1833z S5	Malc	WED
1830z	31/07 [389/00] Konyetz 1833z S5	Malc	MON
1830z	02/08 [384/00] Weak	RNGB	WED
1830z	07/08 [382/00] Konyetz 1833z S2	Malc	MON
1830z	09/08 [383/00]	RNGB	WED
1830z	14/08 [384/36 32037.....20977] Konyetz 1840z S7	Malc	MON
1830z	16/08 [384/36 32027.....20977] Konyetz 1841z S3	Malc	WED
1830z	21/08 [389/00] Konyetz 1933z S3	Malc	MON
1830z	28/08 [385/00] Konyetz 1833z S3	Malc	MON
1830z	30/08 [380/00] Konyetz 1833z S3	Malc	WED
12457kHz 1850z	01/07 [287/00] Konyetz 1958z S9	Malc	SAT
1850z	05/07 [286/35 43613.....71441] Konyetz 1900z S7	Malc	WED
1850z	08/07 [286/35 43613 62296 67407 71441] KOHEI 1901z QSA3 QSB3 QRM4 QRN4	Ed Smith	SAT
1850z	15/07 [286/00] Fair	RNGB	SAT
1850z	19/07 [282/00] Konyetz 1853z S5	Malc	WED
1850z	29/07 [280/00] Konyetz 1853z S8	Malc, Thomas	SAT
1850z	05/08 [281/00] Konyetz 1853z S9	Malc	SAT
1850z	09/08 [286/39 80009.....48362] Konyetz 1901z S7	Malc	WED
1850z	16/08 [287/00] Konyetz 1853z S8	Malc	WED
1850z	30/08 [281/00] Konyetz 1853z S4	Malc	WED

V07

V07 has moved to new frequencies - but not far from those previously used! It has also changed to a new voice.

In August V07 appeared to be missing. This from Token:-

It appears that V07 is using the same schedule and call-up for August, 2017, as it did for July, 2017. Normally V07 changes freqs and times, moving forward 2 hours to 0500/0520/0540z in August, but this month it has stayed on the 0700/0720/0740z schedule.

For the *[first two weeks of August]* it has been active at 0700z on 13563 kHz, USB, at 0720z on 12163 kHz, USB, and at 0740z on 10263 kHz, USB, on its regular Sunday morning. *Thanks T!*

Sunday

July 2017

0700z 13563 0720z 12163 0740z 10263kHz (Change of Frequencies - previously used 13582kHz / 12182kHz)

02/07 512 000 Via Japan remote
09/07 512 000 [NRH On 12163kHz] Via Japan remote

This was Token's log of the 09 July transmissions, with a weak repeat noted at 0724z;
13563 09-07-2017 0700 V07 USB 512 512 512 000
12163 09-07-2017 0720 V07 USB 512 512 512 000
12163 09-07-2017 0724 V07 USB 512 512 512 000

Note the repeat on 12163 kHz at 0724z. This was also at a significantly lower power level, so not sure what was going on there.
The 0720z TX was S9 or a little over, the 0724 was S7 and lower. The voice has changed as of last week. It sounds fuller and the tempo has been sped up a bit.

16/07 512 000 Via Japan remote

23/07 512 1 430 67 58406 95721 ... 45549 56915 000 000 Due to QSB not 100% sure of figures. V07 in Spanish. Ary

512 512 512 1 430 67 430 67
58406 95721 90315 87559 28056 35789 05775 02598 10515 21590
14244 53379 66536 54880 33431 07011 51393 51660 83048 84850
79896 52848 65692 73335 30308 85943 97987 17227 29888 50014
34739 58301 41929 76588 48350 28489 03821 98672 41040 98815
50212 11071 98138 94758 79474 97143 73281 67888 62546 11743
45967 03333 60099 77758 58154 14430 80247 43095 56038 01199
86702 39854 19521 87046 56533 45549 56915 000 000
Courtesy Ary

512 512 512 1 430 67 430 67
58416 95721 90315 87559 28056 35789 05775 02598 10515 21590
14244 23379 66536 24880 33431 07011 51393 21660 83048 84820
79896 52848 65692 73335 30308 85943 97987 17227 29888 20014
34739 28301 41929 76588 48320 28489 03821 98672 41040 98812
50212 11071 98138 94758 79474 97143 73281 67888 62546 11743
47967 03333 60099 77758 58154 14430 80247 43075 26038 01199
86702 39854 19521 17046 26233 40247 76915 000 000
Courtesy Daniel/AR

30/07 512 000

August 2017

0700z 13563kHz 0720z 12163kHz

27/08 512 000

Tuesday

July 2017

1210z 10250kHz

25/07 I.P. [687 687 687 1 97 50 97 50 53514 42804 11185 60575 000 000] 1217z USB E.SMITH/A.B TUE

Restarts: 687 687 687 1 97 50 97 50
53514 42804 63533 50575 658 .. stops, restarts and stops again.
687 687 687 1
53514 42804 63533 50575 65815 05256 faded, unreadable.
687 687 687 1 535 04 63533 50575 65815 525 7 1
Pause 03433 78227 57035 52300 40035 04x4
Pause. 51830 10200 56104 64378 06075 50810 35575 55610 86658 65348
63550 81116 11185 60575 000 000 1217z Courtesy Edd.Smith /Ary.

V13

11430kHz 0600z	05/07	New Star Broadcasting Station	AM	Via SDR Japan	AB	WED
	20/07	New Star Broadcasting Station	AM		AB	THU
15388kHz 0700z	09/07	New Star Broadcasting Station	AM	Via SDR Japan	AB	SUN

V24

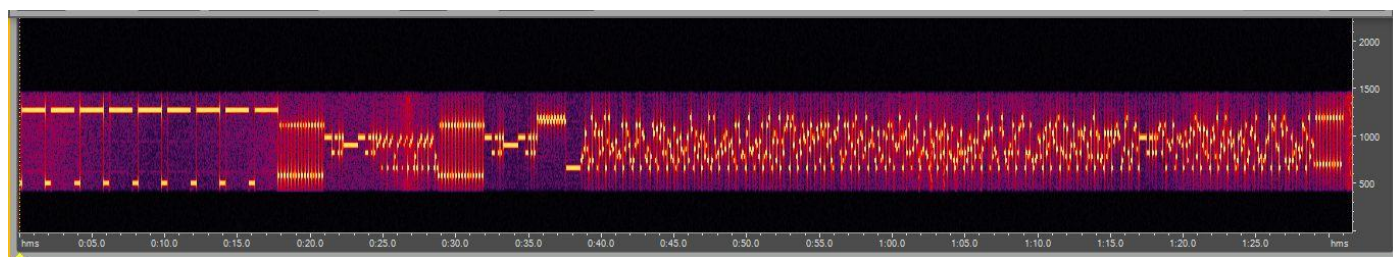
4900kHz 1530z	27/08	Song followed by numbers message in Korean	AM	Via SDR Japan	AB	SUN
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V26

4243kHz 2358z	12/07	(From M95 sked - USB - Chinese - Female - // 9054) (Remote tuner South Korea)			JPL	WED
9054kHz 2358z	12/07	(From M95 sked - USB - Chinese - Female - // 4243) (Remote tuner South Korea)			JPL	WED
4243kHz 1158z	31/08	(From M95 sked - USB - Chinese - Female - // 9054) (Remote tuner New Zealand)			JPL	THU
9054kHz 1158z	31/08	(From M95 sked - USB - Chinese - Female - // 4243) (Remote tuner New Zealand)			JPL	THU

Polytones

XPA c



XPAc 0600z 05/07 2017 Full message, details below. Excellent, clear and strong signals

Wednesday/Saturday

July 2017

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

05/07 456 1 01373 00079 72733 66154 Very strong

456 456 456 1 456 456 456 1 456 456 456 1
Block Sync
4444444444
Block Sync
6
Message Start
01373 00079 72733 55243 51219 39740 04959 76103 19708 69282 54108 50632 36008 37146 61400
00512 42637 45209 95121 77323 54159 12991 57055 52899 99481 52965 73965 86097 94950 76882
09296 49225 76133 45840 73017 69096 43446 67292 36650 23721 95417 61729 62180 04272 20363
51551 36777 81320 88720 24296 28999 21290 01651 68249 75933 32918 14942 72768 41711 71601
71747 57976 03992 04893
Block Sync
89279 54359 16564 74058 77198 48271 58611 14733 57451 06735 90278 66301 01566 98843 97708
06024 31398 66154
[Rivet (Build 89) by Ian Wraith]

08/07	456 1 01373 00079 72733 66154	Very strong
12/07	456 1 00891 00105 77534 17714	Very strong
15/07	456 1 00891 00105 77534 17714	Very strong
19/07	456 000 03070 00001 00000 10140	Very strong
22/07	456 000 02282 00001 00000 10140	Very strong
26/07	Unworkable	Very weak, QSB3/4
29/07	456 1 08257 00069 02589 31144	Very strong

August 2017

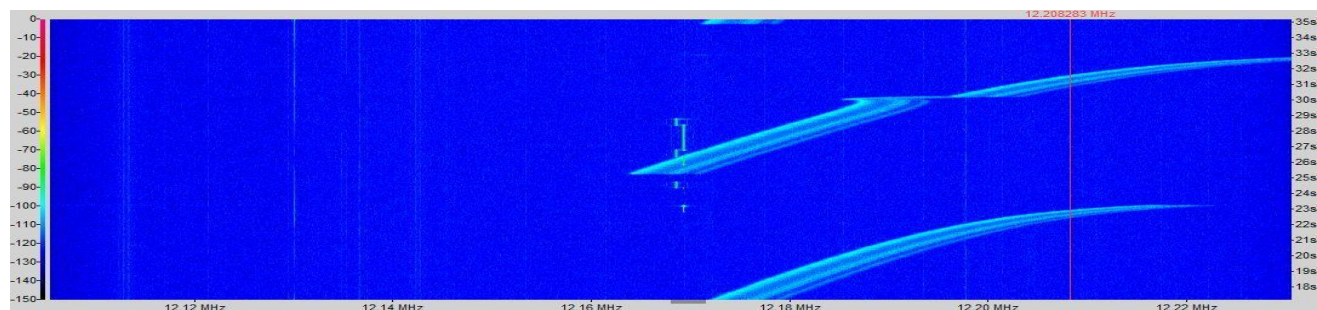
Changed to Monday / Wednesday schedule

0600z	10868kHz	0620z	12168kHz	0640z	13368kHz
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02/08	813 000 04405 00001 00000 10140	Very strong
07/08	813 1 08491 00093 13308 00710	

813 813 813 1 813 813 813 1 813 813 813 1
08491 00093 13308 84429 54307 75642 95336 23215 00787 09798
74970 41598 60620 84226 99027 29166 08743 94822 99986 32184
42587 26960 07342 05959 95527 96855 72409 64711 13339 50942
54309 75434 59015 87700 30096 77538 40775 53677 55811 59670
02919 89830 51337 28166 88284 89886 98977 44570 27045 13528
96261 78507 65252 98023 20141 23147 69480 04003 75611 59696
18703 06578 44590 56733 84483 34937 40184 65262 02188 46726
20326 54953 16961 38343 78704 24906 22310 15660 22730 41732
40799 31847 58707 17020 03922 62355 63571 64611 64257 84436
72593 34858 38759 52254 15408 00710
Courtesy Ary

14/08	813 000 01121 00001 00000 10140	[0620z NRH]	Very weak, Heavy local QRM
21/08	813 000 06765 00001 00000 10140	[0600z Fair]	Strong
23/08	813 000 03031 00001 00000 10140	[0620z 600ms sig only]	Strong



XPac 23/08 2017 Showing the 600ms transmission received on 12168kHz at 0620z

Courtesy PLdn

28/08	813 1 05373 00067 22727 20601	Fair
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813 813 813 1 813 813 813 1 813 813 813 1
05373 00067 22727 93599 23625 54026 90245 50858 13319 38107
00844 91840 17574 92036 39901 45083 19767 47337 63556 46365
26647 55507 57166 60551 70732 24764 52798 91102 43661 97035
31444 59819 14044 99925 48180 11899 33183 59802 78713 02187
89364 74899 01489 36592 17118 52763 85096 00872 96515 98405
28917 52672 28146 54978 84882 04921 71764 59353 01889 23555
80317 54858 66653 80580 52119 56070 45357 79922 74036 20601
Courtesy Ary

30/08	813 1 05373 00067 22727 20601	Fair
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XPA2 m

Sunday/Tuesday

July 2017

2100z	14538kHz	2120z	13538kHz	2140z	12138kHz
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02/07	01261 00001 00000 10140				Weak
04/07	02078 00201 00239 22551				Very strong
09/07	03312 00135 79942 75641				Strong
11/07	03312 00135 79942 75641				Very strong
16/07	02962 00001 00000 10140			[2120z QSB3]	Weak
25/07	00420 00077 78905 23254				Strong
30/07	06745 00001 00000 10140				Very strong

August 2017

2000z	14738kHz	2020z	13438kHz	2040z	12138kHz
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01/08	03590 00001 00000 10140				Very strong
06/08	09937 00001 00000 10140				Very strong
13/08	01382 00001 00000 10140				Very strong
20/08	02830 00083 80805 57052 33126 46260				Very strong UK
	02830 00083 80805 57052 55350 96225 95063 75518 21351 96024 17089 86910 64285 27705 54537 07349 20831 63710 86838 47152 18063 90718 59648 74478 00964 03517 67577 38987 66403 04645 52266 90315 05987 89092 76032 29982 75933 97431 82597 79021 63270 46739 58532 26926 21574 22224 62846 97890 88139 84807 82598 30318 91341 73897 35676 81159 22988 20679 66252 47779 97497 70190 32359 64925 07129 41204 56004 28271 30905 07835 40842 04193 90111 77476 99590 31075 20780 29049 19880 35041 72190 70458 12265 16711 33126 46260 <i>Courtesy DanAR</i>				
22/08	05390 00187 15852 24531				Strong
27/08	06803 00001 00000 10140				V strong LocalQRM3 UK / Fair Arg.
29/08	07164 00001 00000 10140				Very strong

XPA2 p

Tuesday/Thursday

July 2017

1900z	15884kHz	1920z	14984kHz	1940z	14384kHz
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04/07	02619 00001 00000 10140				Very strong
11/07	06730 00001 00000 10140				Very strong
13/07	09063 00001 00000 10140				Weak
20/07	03107 00195 51174 85848 95477 ... 43272 15555				Very Strong UK / Weak Argentina
25/07	09825 00001 00000 10140				Strong UK / Weak Argentina
27/07	05627 00001 00000 10140				Strong UK / Weak Argentina

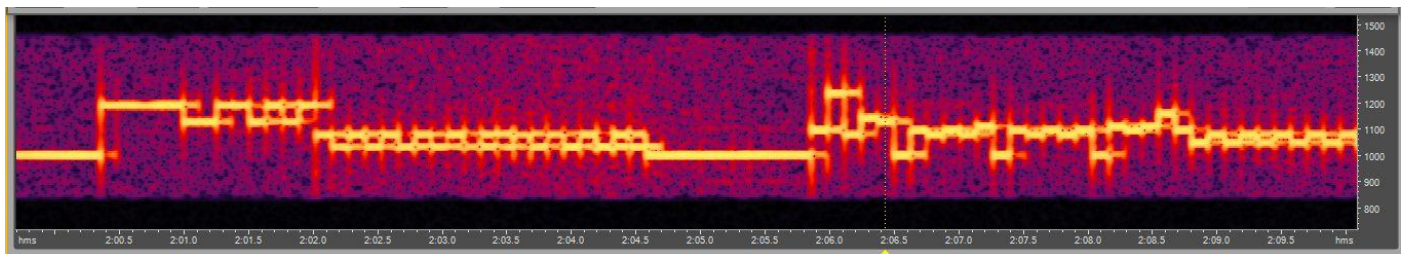
August 2017

1900z	16314kHz	1920z	15814kHz	1940z	14514kHz
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01/08	06759 00143 9845958647 62447				Very strong UK / Weak Argentina
	06759 00143 98459 90218 56078 46065 93901 07951 86613 07200 31436 49187 35145 46984 54147 15968 10573 09540 32259 03113 21862 71724 97219 64054 44526 88343 40910 64408 02143 19671 93071 33699 06709 76116 88845 80264 25993 54463 12233 54764 76720 14080 70673 75229 81095 73104 71899 02404 17150 38708 53789 03588 31425 83901 42549 84847 24445 63733 84307 09036 58515 53593 55916 75343 91411 97802 89421 84280 45854 23383 87040 80136 38617 72482 80741 54002 49292 53604 85392 12525 93496 29725 57817 67680 93098 04078 67703 26895 43291 22179 43042 62457 27710 88472 46271 00137 54201 69472 95900 20417 92193 47943 34974 59099 90621 98700 06838 58694 88372 23022 65687 23589 12308 19982 95459 76608 47890 50916 91426 17472 67804 23181 51005 85842 29850 80210 97188 30132 16386 74434 86929 56016 58879 27352 83717 36067 14573 71158 21614 43052 49026 69531 07503 97617 58647 62447 <i>Courtesy Daniel/AR</i>				

03/08	06759 00143 9845958647 62447	Very strong UK / Weak Argentina
08/08	06918 00001 00000 10140	Weak Argentina
10/08	09599 00001 00000 10140	Very weak
15/08	09676 00001 00000 10140	Weak Argentina
17/08	04934 00001 00000 10140 [1900z Very strong]	Fair UK / Weak Argentina
22/08	02730 00073 80805 46260	Weak, QSB5 in part
24/08	05390 00187 15852 24531	Strong with occasional QSB4
05390 00187 15852 27828 86377 90545 33701 59653 22935 39782 29112 46146 50697 61570 26175 09727 85129 91799 81832 76564 29228 69260 36021 14588 98495 22706 15094 03555 75198 13785 22489 84152 99595 39738 90967 90511 41474 65225 44463 06104 59443 32612 11436 98098 01454 37987 80392 26114 05502 00897 71341 71719 68406 02744 30454 70531 44080 88344 94455 73543 23749 73846 92845 41996 07989 29715 87987 89610 87791 80932 56819 51209 82753 42780 59104 88863 31237 34475 20991 25581 20449 16837 86560 07825 35544 91033 51412 05276 14195 89607 08995 65233 01653 79753 83698 26164 53902 58694 03875 48561 31042 75247 59445 48859 45330 27475 98855 63160 83048 92719 27797 13061 49019 27478 70040 10063 58824 97875 82122 86609 42277 75956 21673 89110 85988 71289 16317 15432 40515 67665 85091 39867 98745 98428 99102 20561 66579 20389 13772 08577 63351 05761 07441 53786 32521 80225 71678 48331 67688 39808 54208 94359 18163 06654 45939 87832 26941 70616 63443 25226 47325 26730 59254 47364 19382 34697 28874 76669 62866 35691 80022 95792 30700 23367 80546 20817 19607 44314 10326 37153 45147 19741 13817 35353 67998 06829 37517 18361 94558 24531 <i>Courtesy Daniel/AR</i>		
26/08	08653 00001 00000 10140	Very strong
29/08	05461 00001 00000 10140	Strong
31/08	02356 00001 00000 10140	Unworkable UK/Weak Argentina

XPA2 r



Illustrates Echo and distortion heard 13884kHz 2120z 02/07/2017

Friday/Saturday

July 2017

2100z	15967kHz	2120z	13884kHz	2140z	12217kHz	
01/07	09932 00001 00000 10140					Very strong, distortion and echo 2120z
07/07	02947 00143 44335 22760					Very strong
08/07	02947 00143 44335 22760					Very strong
14/07	04268 00001 00000 10140					Very strong
15/07	08396 00001 00000 10140			[2100z Fair]		Very strong
28/07	04677 00001 00000 10140					Weak
29/07	06505 00001 00000 10140					Very strong

August 2017

1900z	16167kHz	1920z	14663kHz	1940z	13923kHz	
04/08	01389 00107 14695 23735					Fair
11/08	04712 00001 00000 10140					Very strong
12/08	08200 00001 00000 10140					Very strong
18/08	00792 00081 84940 47327			[1900z Unworkable]		Weak
25/08	01409 00001 00000 10140			[1900z Weak]		Very strong

XPA2 t

Tuesday/Friday

July 2017

0700z	20173kHz	0720z	18673kHz	0740z	17473kHz	
04/07	09114 00093 55759 13354			[0700z Weak, 0720z NRH]		Very strong
11/07	01580 00001 00000 10140					Fair
14/07	04003 00001 00000 10140			[0700z Weak]		Fair
18/07	07947 00135 27430 12044					Weak; QSB to nil in all sendings
21/07	07947 00135 27430 12044			[0700/0720z NRH]		0740z Fair, QSB3
25/07	07345 00001 00000 10140					Weak
28/07	07628 00001 00000 10140			[0700z Weak]		Strong

August

0700z	20049kHz	0720z	18549kHz	0740z	17449kHz	
01/08	03402 00001 00000 10140					Fair
04/08	05509 00001 00000 10140					Fair
08/08	07028 00127 81329 26132			[0700z Weak]		Fair
11/08	07028 00127 81329 26132					Fair
18/08	09950 00001 00000 10140			[0700 and 0720z Unworkable]		0740z Weak
22/08	07760 00001 00000 10140			[0740z Strong]		Fair
25/08	08924 00001 00000 10140			[0700z Weak]		Fair
29/08	00704 00141 39787 32711					Strong

Hybrids

HM01

HM01 has continued on the same schedules and frequencies over the past two months. Some days were missed over the period due to recording problems. Windows XP dings seem to be becoming more common with them being heard on various occasions during the call-ups.

Several call-ups with 9s in were heard, these have been rare of late and always seem to appear on the 2100z schedule with the call-up ending with 0 then incrementing to 1 on the following day.

The other item of note was the appearance of the same call-up twice on 14/7 with 0622 being seen in the 4th and 5th positions the transmitted text files were different however. On 15/7 the call-ups went out of sequence with some reverting backwards but call-up 2 incrementing +1

Four files not ending in .txt were transmitted 36226753.F1G 36168215.F1G 36306682.F1G 50235157.F1C 50162686.F1C, as always names of files with F1C extensions begin 50 and those with .F1G start with 36.

Logs

HM01 11435kHz 1600z 3/7 [76127 48762 06621 10843 51773 14054] MON
HM01 11435kHz 1600z 5/7 [76127 48762 06621 10843 51773 14054] WED
HM01 11435kHz 1600z 6/7 [86671 48763 06621 10844 51774 14055] Windows XP USB disconnect ding heard during call-ups. THU
HM01 11435kHz 1600z 7/7 [86672 48764 06622 10845 51775 14056] FRI
HM01 11435kHz 1600z 8/7 [86673 48765 06623 10846 51776 14057] SAT
HM01 11435kHz 1600z 9/7 [86674 48766 06624 10847 51777 14058] SUN
HM01 11435kHz 1600z 10/7 [86675 48767 06625 10848 51778 14059] Very loud hum. MON
HM01 11435kHz 1600z 14/7 [61903 10662 06629 06224 06223 07513] 1st call-up contains a 9 and call-up 0622 appears twice! 40326190.TXT, 03031066.TXT, 64770662.TXT, 50300622.TXT, 35100622.TXT, 45660751.TXT. FRI
HM01 11435kHz 1600z 15/7 [61900 10663 06626 06221 06221 07511] Call-up with a 9 has last digit 0, several others had reverted -2 or 3 except call-up 2 which incremented +1. SAT
HM01 11435kHz 1600z 16/7 [61905 10664 72071 06226 06225 07515] Back to the correct sequence new call-ups positions 2 and 3 10664 = 03031066.TXT, 72071 = 64307207.TXT. SUN
HM01 11435kHz 1600z 17/7 [61906 10665 72072 06227 06226 07516] MON
HM01 11635kHz 1600z 18/7 [90241 10666 72073 06228 06227 07517] New call-up position 1, 90241 = 32409024.TXT, note call-up contains a 9. TUE
HM01 11435kHz 1600z 19/7 [90241 10666 72073 06228 06227 07517] Same call-ups as yesterday. WED
HM01 11635kHz 1800z 20/7 [90243 10668 72075 82851 06229 11581] New call-ups positions 4 and 6, 82851 = 60158285.TXT, 11581 = 86021158.TXT. THU
HM01 11635kHz 1800z 21/7 [90244 10669 72076 82852 82151 11582] New call-up position 5, 82151 = 36168215.F1G. FRI
HM01 11635kHz 1800z 22/7 [90244 10669 72076 82852 82151 11582] SAT

HM01 11635kHz 1800z 26/7 [37631 61844 58101 82857 82155 11587] New call-ups since 22nd positions 1, 2 and 3 37631 = 72403763.TXT, 61844 = 35746184.TXT, 58101 = 80535810.TXT. WED
 HM01 11635kHz 1800z 27/7 [37631 61845 58102 02801 82156 11588] New call-up position 4, 02801 = 41850280.TXT. THU
 HM01 11635kHz 1800z 28/7 [37632 61846 58103 02801 82157 11589] FRI
 HM01 11635kHz 2100z 28/7 [37632 61846 58103 02801 82157 27090] Note call-up 6 has changed since 1600z, contains a 9 and ends in 0. 27090 = 74162709.TXT. FRI
 HM01 11635kHz 1800z 29/7 [37633 61847 58104 02802 82158 27091] Call-up 6 incremented +1 since yesterday's appearance at 2100z. SAT
 HM01 11635kHz 1800z 30/7 [37634 80181 58105 02803 38301 27092] New call-ups positions 2 and 5 80181 = 74728018.TXT, 38301 = 70423830.TXT. SUN
 HM01 11635kHz 1800z 31/7 [37635 80181 58106 02804 38301 27093] Windows XP dings heard during call-ups. MON

HM01 11435kHz 1800z 1/8 [37635 80181 58106 02804 38301 27093] Same call-ups as yesterday. TUE
 HM01 11435kHz 1800z 2/8 [37635 80181 58106 02804 38301 27093] Same call-ups as yesterday. WED
 HM01 11435kHz 1800z 3/8 [37635 80181 58106 02804 38301 27093] Same call-ups as yesterday. THU
 HM01 11435kHz 1800z 4/8 [37635 80181 58106 02804 38301 27093] Same call-ups as yesterday. FRI
 HM01 11435kHz 1800z 5/8 [37636 80182 58107 02805 38302 27094] Same call-ups as yesterday. SAT
 HM01 11435kHz 1800z 6/8 [37637 80183 66821 02806 38303 27095] New call-up position 3, 66821 = 36306682.FIG. SUN
 HM01 11435kHz 1800z 7/8 [55801 80184 66821 02807 38304 27096] New call-up position 1, 55801 = 42145580.TXT. MON
 HM01 11435kHz 1800z 8/8 [55801 80185 66822 33341 38305 27097] New call-up position 4, 33341 = 40583334.TXT. TUE
 HM01 11435kHz 1800z 16/8 [51572 32256 01662 55781 78615 77221] All new call-ups since 8/8 51572 = 50235157.FIC, 32256 = 63643225.TXT, 01662 = 60500166.TXT, 55781 = 28365578.TXT, 78615 = 56757861.TXT, 77221 = 60447722.TXT, windows dings heard during call-ups. WED
 HM01 11435kHz 1800z 17/8 [51573 32257 01663 55782 78616 77221] THU
 HM01 11435kHz 1800z 18/8 [51574 32258 01664 55783 78617 77222] FRI
 HM01 11435kHz 1800z 19/8 [51575 32259 01665 55784 03201 77223] New call-up position 5, 03201 = 20780320.TXT. SAT
 HM01 11435kHz 1800z 20/8 [51576 60381 01666 55785 03201 77224] New call-up position 2, 60381 = 30136038.TXT. SUN
 HM01 11435kHz 1800z 21/8 [51577 60381 01667 55786 03202 77225] MON
 HM01 11435kHz 1800z 22/8 [51578 60382 81501 55787 03203 77226] New call-up position 3, 81501 = 66218150.TXT. TUE
 HM01 11435kHz 1800z 23/8 [51578 60382 81501 55787 03203 77226] Same call-ups as yesterday. WED
 HM01 11435kHz 1800z 24/8 [51578 60382 81501 55787 03203 77226] Same call-ups as yesterday. THU
 HM01 11435kHz 1800z 25/8 [51578 60382 81501 55787 03203 77226] Same call-ups as yesterday. FRI
 HM01 11435kHz 1800z 26/8 [51579 60383 81501 23561 03204 77227] New call-up position 4, 23561 = 06062356.TXT. SAT
 HM01 11435kHz 1800z 27/8 [26861 60384 81502 23561 03205 46161] New call-ups positions 1 and 6, 26861 = 50162686.FIC, 46161 = 20174616.TXT. SUN
 HM01 11435kHz 1800z 28/8 [26861 60385 81503 23562 03206 46161] MON
 HM01 11435kHz 1800z 29/8 [26862 60386 81504 23563 03207 46162] TUE

PoSW's analysis of signals heard in Great Britain:

Signals from the Cuban Mixed Mode station still being heard in the UK morning time, but only on the four days of the week when frequencies in the 9 and 10 MHz band are used.

3-July-17, Monday:- 0600 UTC, 10,345 kHz, call-up routine in progress when tuned in, "76127 48762 06621 10843 51773 14054". S7 to S8 with the usual deep fading up and down, data noise started at 0602 UTC.

5-July-17, Wednesday:- 0558:35s UTC, 10,345 kHz, "76127 48762 06621 10843 51773 14054", same as on Monday, data at 0601:55s UTC.

7-July-17, Friday:- 0600 UTC, 10,345 kHz, in progress with, "86670 48763 06221 10844 51774 14055", S9 with QSB, audio seemed lower than usual, data at 0601:55s UTC.

9-July-17, Sunday:- 0628:30s UTC, 10,345 kHz, starting up after the break with, "86673 48765 06623 10846 51776 14057", over S9 with good audio, data at 0631:55s UTC.
 0709 UTC, 9,330 kHz, transmission in progress, 5Fs as earlier, S9 with QSB, stopped for the break after 0719z when the signal was becoming weaker.

Signals from this station went into a bit of a decline for over a fortnight; it was possible to confirm that HM01 was there but unable to make out the 5Fs.

26-July-17, Wednesday:- 0559 UTC, 10,345 kHz, call-up in progress when tuned in, weak but just about readable, "90248 61843 58101 82856 82154 11586". Data at 0601:40s UTC.

6-Aug-17, Sunday:- 0729 UTC, 9,330 kHz, call-up after the break, S7 with deep QSB always at the most inconvenient moments, "37636 80182 58107 02805 38302 27094", copy not too clear but was surprised to hear anything at all because there was no sign of HM01 on 10,345 when checked just after 0600 UTC; this is usually the best frequency on which to catch this one. Data noise started at 0731:34s UTC.

7-Aug-17, Monday:- 0558 UTC, 10,345 kHz, weak signal, unreadable.
 0736 UTC, 9,330 kHz, last few minutes of a transmission, peaking S8 with the usual deep fading, heard 5Fs, "37637 80183 66821 02806 38303 27095". Stopped just before 0749 UTC, carrier went off around 0751.

14-Aug-17, Monday:- 0744 UTC, 9,330 kHz, last few minutes, 5Fs "55807 32252 66828 33346 78611 53776", S9 with the usual deep fading up and down. Voice stopped after 0748 UTC, carrier QRT before 0750.
 0758:6s UTC, 9,065 kHz, starting up, 5Fs as earlier, weaker signal than on 9,330, S5 to S6.

16-Aug-17, Wednesday:- 0728 UTC, 9,330 kHz, "51571 32255 01661 55780 78614 53779", weak signal, copy not too clear.

And Other's Logs:

July 2017

9065KHz 0758z	05/07	76127 48762 06621 10843 51773 14054 (repeating groups of 24 June)	AM/RDFT	AB	WED
9330KHz 0657z	09/07	86673 48765 06623 10846 51776 14057	Normal transmission	AM/RDFT	SUN
10715KHz 2200z	12/07	61901 10661 06627 06222 06221 07511	Weak	DanAR	WED

11462kHz	0507z	01/07	76127 48762 06621 10843 51773 14054			'E'	SAT
	0514z	08/07	86672 48764 06622 10845 51775 14056		AM/RDFT	AB	SAT
	0858z	08/07	86672 48764 06622 10845 51775 14056 *		AM/RDFT	AB	SAT
	0500z	20/07	90242 10667 72074 82851 06228 11581		AM/RDFT	AB	THU
11530kHz	1658z	05/07	76127 48762 06621 10843 51773 14054		AM/RDFT	dmhz	WED
	1728z	05/07	76127 48762 06621 10843 51773 14054	Via SDR Kansas,USA	AM/RDFT	dmhz	WED
	1658z	08/07	86673 48765 06623 10846 51776 14057 *		AM/RDFT	AB	SAT
11635kHz	0758z	08/07	86672 48764 06622 10845 51775 14056 *		AM/RDFT	AB	SAT
12180kHz	0958z	08/07	86672 48764 06622 10845 51775 14056 *		AM/RDFT	AB	SAT
13435kHz	0657z	08/07	86672 48764 06622 10845 51775 14056 *		AM/RDFT	AB	SAT
14375kHz	0558z	08/07	86672 48764 06622 10845 51775 14056 *		AM/RDFT	AB	SAT

August 2017

11635kHz	2147z	13/08	33346 78211 53773	[Off at 2149z]		'E'	SUN
17480kHz	2200z	01/08	37635 80181 58106 02804 38301 27093		Fair	DanAR	TUE
	2200z	03/08	37635 80181 58106 02804 38301 27093		Fair	DanAR	THU

* Ary reports that on 08 July, the broadcasts consisted of two identical HM01 transmissions mixing. Although at 1658z the message changed to new groups, the same problem of two identical transmissions mixed still occurred.

Saturday 08 July transmissions - In time order (As monitored by Ary)

0514z	11462kHz	08-07-2017	HM01	AM/RDFT
0558z	14375kHz	08-07-2017	HM01	AM/RDFT
0657z	13435kHz	08-07-2017	HM01	AM/RDFT
0758z	11635kHz	08-07-2017	HM01	AM/RDFT
0858z	11462kHz	08-07-2017	HM01	AM/RDFT
0958z	12180kHz	08-07-2017	HM01	AM/RDFT
	Two identical HM01 transmissions mixing 86672 48764 06622 10845 51775 14056			
1658z	11530kHz	08-07-2017	HM01	AM/RDFT
	New groups, same problem			
	Two identical HM01 transmissions mixing 86673 48765 06623 10846 51776 14057			

HM02 - Believed variant of Russian Family 1. Station under investigation

Consists of a short FSK sequence that contains no data, possibly a tuning signal, followed by a message in FSK Morse. Changes times with daylight saving.

HM02 is Back - Using High Speed FSK Morse

The last transmission heard, on 09 June 2017, started as normal but after the first five groups, went into a high speed Morse mode that continued for the rest of the transmission. Ary, (AB), found the station reactivated on 7761kHz at 0600z - Still using this high speed Morse FSK mode, which appears to be the new format of the station & not an error, as was hoped!

Speed of the FSK Morse is around 40 WPM. Since its re-appearance, apart from eleven days at the end of July & the beginning of August, the station has appeared irregularly, with odd days & longer periods where a number of days, have passed with no transmission. The last message heard was on Wednesday 23 August.

Schedule: Does not appear to follow a regular yearly frequency schedule - Frequency appears to be chosen to suit current conditions

Latest: Daily: 7761kHz 0600z Found by Ary, (AB) on 25 July 2017 - Using fast FSK Morse at 40 WPM

Previous frequencies used:- 4761kHz, 6261kHz & 7351kHz. **Time schedules** varied from 0410, 0420, 0440z & 0520z

July 2017

Now using high speed FSK Morse

7761	0600z	25 Jul	571 63 = 88866 27271 ... 19565 70710 = 000		AB	TUE
	0600z	26 - 28 Jul	NRH			
	0601z	29 Jul	606 59 = 62357 98493 ... 87805 69229 = 000	Strong	AB	SAT
	0600z	30 Jul	911 57 = 41333 84171 ... 52819 79331 = 000		AB	SUN
	0600z	31 Jul	529 61 = 30381 03454 ... 60089 33456 = 000		AB	MON

August 2017

7761	0600z	01 Aug	206 58 = 40527 89136 ... 78362 18666 = 000		AB	TUE
	0600z	02 Aug	984 64 = 00364 23816 ... 13277 31248 = 000	[Note 1]	AB	WED
	0600z	03 Aug	785 68 = 62602 65411 ... 16660 56855 = 000		AB	THU
	0600z	04 Aug	489 72 = 67006 85230 ... 77634 07051 = 000		AB/BR	FRI

0600z	05 Aug	631 63 = 66398 40527 ... 06581 32486 = 000		AB	SAT
0600 - 0607z	06 Aug	401 63 = 41905 42872 ... 98986 51835 = 000	Fair/Good	AB/BR	SUN
0600 - 0607z	07 Aug	651 67 = 24482 35452 ... 87757 52245 = 000	Good	AB/BR	MON
0600 - 0607z	08 Aug	294 63 = 08208 01014 ... 00173 20844 = 000	Fair/Good QSB	AB/BR	TUE
0600z	09 - 10 Aug	NRH			
0600 - 0607z	11 Aug	591 64 = 16141 51521 ... 66320 87541 = 000	Weak/Fair QSB	AB/BR	FRI
0600z	12 - 17 Aug	NRH			
0600 - 0602z	18 Aug	Strong carrier in progress at 0600z. Ended 0602z	Strong	AB	FRI
0600z	19 Aug	NRH			
0600z	20 Aug	273 65 = 23440 13764 ... 13492 96374 = 000		AB	SUN
0600z	21 Aug	NRH			
0600 - 0607z	22 Aug	925 63 = 68949 78669 ... 55365 73541 = 000		AB/BR	TUE
0600z	23 Aug	307 62 = 32771 41140 ... 00024 5x976 = 000		AB	WED
0600z	24 - 31 Aug	NRH			

[Note 1] Error in repeat sending. Sent 85, then long tone, skipped 6 groups, then continued AB

HM02 7761kHz 0600z 25 July 2017 FSK-19.8bd/129Hz/FSK-CW FSK intro followed by high speed FSK-CW 571 63 = 88866 27271 75674 45980 70859 82774 99148 40262 56013 74090 60712 40642 36432 09905 78362 37729 54110 17411 50153 40331 71511 17428 64118 64894 91691 61175 71971 17596 76218 84979 81759 86114 99828 59964 47834 41166 71737 88877 42345 03685 10923 86864 78246 89695 98159 08270 97144 39405 30349 74290 92131 91197 81956 67041 81290 88081 03609 72554 08817 71219 54050 19565 70710 = 571 63 571 63 = repeats the message = 571 63 000 <i>Courtesy AB</i>	HM02 7761kHz 0600z 06 August 2017 401 63 = (Fast FSK Morse) 41905 42872 63851 22633 21900 42930 18390 88581 66764 03679 94249 97363 97801 23780 61092 34925 76619 13878 14034 72975 35505 27139 66877 72764 58607 08809 71779 33894 73778 61085 30490 26456 05043 98699 57657 93702 14078 21854 54769 93401 59821 62504 02334 31259 54704 78551 85812 77568 73194 06183 71993 07987 41159 49110 87198 20064 12354 95627 22588 37920 47499 98986 51835 = 401 63 401 63 = (Repeat of msg) = 401 63 000 <i>Courtesy BR</i>
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FSK by Danix

F01

Not much to report here. The usual low traffic schedules are still sending null messages only.

Links 00116 & 00117 are based in Cuba, rather than Russia. More links have been heard from there in recent years, but only these two are seen on regular schedules. Unfortunately, I receive very few logs of those.

Monday	0025/0035/0125/0135z	14878/12185kHz	Link ID 00117
03/07	No reports		
10/07	No reports		
17/07	<u>11177 00117 73862 14029 01879</u>	02480 62656 63417 13082 90108 16788 21389 35412 27791 40478 76808 61452 ...	
24/07	No reports		
31/07	No reports		
	0025/0035/0125/0135z	16023/14373kHz	
07/08	<u>11177 00117 28304 04032 01659</u>	68635 74240 27201 61949 96942 02368 92867 35359 59799 05210 20636 94840 ...	
14/08	No reports		
21/08	No reports		
28/08	No reports		
1st Wednesday	1840/1850/1900z	14829/12214/10932kHz	
05/07	Null message		
	1840/1850/1900z	15854/13543/11126kHz	
02/08	Null message		
Friday	2230/2240/2330/2340z	18562/16218kHz	Link ID 00116

07/07	No reports
14/07	No reports
21/07	No reports
28/07	<u>11177 00116 68419 27030 01239</u> (message date is one day earlier than expected)
	2230/2240/2330/2340z 20823/18397kHz
04/08	No reports
11/08	<u>11177 00116 49621 11032 01759</u> 76569 37452 54744 30786 88431 49206 89266 49504 87172 72261 06159 49091 ...
18/08	No reports
25/08	No reports

Saturday	1810/1820/1830z 16147/14389/12214kHz
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01/07	Null message
08/07	Null message
15/07	Null message
22/07	Null message
29/07	Null message

1810/1820/1830z 15931/13452/11093kHz
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05/08	Null message
12/08	Null message
19/08	Null message
26/08	Null message

F06

In July, two presumed exercise schedules were found, running on even days of the month, and using link ID 00000. It appears to be an annual occurrence. On some days, a two-message format very similar to E06a and S06b was used.

Even days	1700/1710/1720z 11122/9067/6791kHz
	1730/1740/1750z 12167/9937/7526kHz

04/07	<u>11166 00000 23715 03053 00049</u> 11111 00012 53002 00000
	<u>11100 00000 19458 03054 00549</u> 61967 74126 16467 47536 82947 01468 32088 53725 21794 72611 66144 82837 ...
06/07	<u>11166 00000 18352 05055 00169</u> 48714 89706 59977 13908 48236 12302 52389 77930 98471 33465 90729 94372 ...
	<u>11166 00000 27534 06056 00049</u> 11111 00020 56002 00000
08/07	<u>11166 00000 27534 06056 00049</u> 11111 00020 56002 00000
	<u>11100 00000 75319 07057 00579</u> 80575 84726 73639 11171 49543 49280 83968 45438 58095 98739 66144 62101 ...
10/07	<u>11100 00000 31579 09058 00529</u> 00509 15072 38270 21339 72876 40564 99132 68347 99807 26760 66144 06954 ...
12/07	<u>11166 00000 56973 10059 00159</u> 67446 34845 67447 57170 86515 63662 24908 01809 75083 80845 43521 49169 ...
14/07	<u>11166 00000 81935 13060 00049</u> 11111 00019 60002 00000
	<u>11100 00000 15986 13061 00529</u> 18590 79661 61986 68045 43484 36261 52402 91116 83242 04231 66144 86896 ...
16/07	<u>11100 00000 67293 15062 00529</u> 32158 25740 76132 95326 26488 78484 45625 73082 74070 47036 66144 65369 ...
18/07	<u>11166 00000 36987 17063 00259</u> 72995 13245 25168 52697 31071 74447 04988 65907 71572 01078 65946 30778 ...
20/07	<u>11100 00000 69423 19064 00539</u> 48043 83809 14010 18953 23858 26701 44333 33800 33677 50880 66144 80243 ...
22/07	<u>11100 00000 62389 21065 00529</u> 71817 14064 90510 19167 21237 83966 76599 45283 94139 79901 66144 01626 ...
24/07	<u>11100 00000 42567 23066 00529</u> 54621 26229 97595 13478 75162 55128 38572 28386 38014 01862 66144 39489 ...
26/07	<u>11100 00000 52348 25067 00639</u> 74251 46669 85504 02895 28291 84430 20635 52634 59828 18326 66144 61352 ...
28/07	<u>11100 00000 58937 27068 00539</u> 95569 52885 68596 22822 47332 36889 45337 43938 09013 71016 66144 74445 ...
30/07	NRH

Even days	1800/1810/1820z 10687/7992/5913kHz
	1830/1840/1850z 11611/9425/6957kHz

04/07	<u>11166 00000 02678 03012 00049</u> 11111 00011 12002 00000
	<u>11100 00000 53947 03013 00669</u> 94165 72547 08057 89572 71803 55257 54266 84200 64300 21860 55133 04382 ...
06/07	<u>11166 00000 81045 05014 00179</u> 21060 59110 89618 48690 80568 20032 06516 28387 83055 76819 36907 89237 ...
	<u>11166 00000 14570 06015 00049</u> 11111 00019 15002 00000
08/07	<u>11166 00000 14570 06015 00049</u> 11111 00019 15002 00000
	<u>11100 00000 46821 07016 00669</u> 72712 29597 69052 19164 47188 66164 37980 19926 60026 17588 55133 23878 ...
10/07	<u>11100 00000 75319 09017 00639</u> 60572 56852 63951 81004 64314 47381 01761 26245 23341 65913 55133 05383 ...
12/07	<u>11166 00000 83497 10018 00159</u> 16819 37990 89059 84427 78559 38380 91146 54763 21921 59044 34024 04918 ...
14/07	<u>11166 00000 73519 13019 00049</u> 11111 00018 19002 00000
	<u>11100 00000 14287 13020 00659</u> 68132 08177 82911 36002 57850 70560 84008 88445 60218 10025 55133 70438 ...
16/07	<u>11100 00000 73982 15021 00639</u> 94499 25596 27491 94271 65788 91937 92976 11966 12535 51720 55133 09185 ...
18/07	<u>11166 00000 75931 17022 00269</u> 81341 22973 66407 98452 05258 08521 73343 89438 00696 96929 86166 70512 ...
20/07	<u>11100 00000 41982 19023 00639</u> 38641 29199 30224 07718 37913 31935 89357 98533 07077 49969 55133 18511 ...
22/07	<u>11100 00000 10487 21024 00649</u> 91689 62964 87361 38364 07898 00470 74306 55614 34022 66673 55133 07008 ...
24/07	<u>11100 00000 78452 23025 00629</u> 31862 12570 55405 10248 33617 50364 29231 02374 02874 08044 55133 33795 ...
26/07	<u>11100 00000 78456 25026 00649</u> 35411 50294 33466 70381 71588 42528 55574 06604 86077 06763 55133 69500 ...

28/07 **11100 00000 79135 27027 00639** 90995 01489 54824 99199 01405 98173 56266 70632 50276 54086 55133 23169 ...
 30/07 NRH

Other events of note are link 70147 sending unexpectedly on 15/07; another link 50046 broadcast being replaced by E06 ID 832 on 12/08; and link 40133 sending its first messages since June on 12/08 and 26/08.

Sunday	1530/1540/1550z	19466/16189/13576kHz	Link ID 10053
02/07	Null message		
09/07	Null message		
16/07	Null message		
23/07	Null message		
30/07	Null message		
	1530/1540/1550z	17428/15786/12228kHz	
06/08	Null message		
13/08	Null message		
20/08	Null message		
27/08	Null message		
1st/3rd Monday	0400/0410/0420z	11049/9126/8137kHz	Link ID 70059
03/07	Null message		
17/07	Null message		
	0400/0410/0420z	10748/9139/7424kHz	
07/08	Null message		
21/08	Null message		
Tuesday	1500/1510/1520z	15733/13376/11154kHz	Link ID 00052
04/07	Null message		
11/07	Null message		
18/07	Null message		
25/07	Null message		
	1500/1510/1520z	14984/13378/10946kHz	
01/08	Null message		
08/08	Null message		
15/08	Null message		
22/08	Null message		
29/08	Null message		
Tuesday	1650/1700/1710z	19535/16348/13588kHz	Link ID 10053
04/07	Null message		
11/07	Null message		
18/07	Null message		
25/07	Null message		
	1650/1700/1710z	17534/15613/12215kHz	
01/08	Null message		
08/08	Null message		
15/08	Null message		
22/08	Null message		
29/08	Null message		
Wednesday	0600/0610/0620z	17419/15707/13446kHz	Link ID 40122
05/07	<u>11166 40122 25098 01027 03359</u>	52462 26555 42745 21382 73338 03682 16611 54435 70021 08127 63814 14463 ...	
12/07	<u>11166 40122 85712 08028 03029</u>	43257 57749 21974 69604 03795 97453 16792 81337 31440 84366 13857 74369 ...	
	<u>11166 40122 58741 08029 02559</u>	36486 16417 74897 17030 79283 88278 45745 39794 89929 96631 18102 29450 ...	
19/07	Null message		
26/07	<u>11166 40122 17548 22030 03799</u>	89155 47142 91390 43701 83090 06633 69469 94942 32092 58483 77280 48570 ...	
	0600/0610/0620z	16346/14847/12223kHz	
02/08	No reports		
09/08	<u>11166 40122 96385 05032 03029</u>	21756 46609 39941 37023 24945 54195 59018 52882 80334 80272 78317 10237 ...	
16/08	Null message		
23/08	<u>11166 40122 85296 19034 03779</u>	13770 68869 55915 83887 87366 47506 10089 98280 69839 76739 62382 99272 ...	
30/08	<u>11166 40122 34675 26035 03029</u>	94126 90556 59667 58217 31892 09596 93341 55996 52881 00316 02259 09506 ...	
	<u>11166 40122 70412 26036 02709</u>	22715 37366 41680 51163 26381 07500 93445 25941 32252 58004 57878 38417 ...	

Wednesday	0800/0810/0820z	13994/12058/10174kHz	Link ID 70048
05/07	Null message		
12/07	Null message		
19/07	Null message		
26/07	Null message		
	0800/0810/0820z	14976/13373/11168kHz	
02/08	Null message		
09/08	Null message		
16/08	Null message		
23/08	Null message		
30/08	Null message		
2nd/4th Wednesday	0800/0810/0820z	15795/13428/11060kHz	Link ID 00052
12/07	<u>11166 00052 83724 11016 01769</u>	<u>63010 26121 48856 22078 74737 84816 62494 40426 96119 76298 07382 97356 ...</u>	
26/07	<u>11166 00052 29135 25017 01789</u>	<u>25980 86135 48856 22078 36607 44820 62494 40426 58089 36202 07382 97356 ...</u>	
	0800/0810/0820z	16319/14378/11636kHz	
09/08	Null message		
23/08	<u>11166 00052 38421 23018 01829</u>	<u>36169 46133 49857 22078 47886 04828 63495 40426 69268 96200 08383 97356 ...</u>	
2nd/4th Wednesday	0915/0925/0935z	14948/12176/10177kHz	Link ID 10031
12/07	Null message		
26/07	Null message		
	0915/0925/0935z	17434/14369/11163kHz	
09/08	Null message		
23/08	Null message		
1st/3rd Wednesday	1230/1240/1250z	16244/14649/12206kHz	Link ID 90073
05/07	Null message		
19/07	Null message		
	1230/1240/1250z	17455/15923/13388kHz	
02/08	Null message		
16/08	Null message		
Thursday	1330/1340/1350z	13814/11643/9925kHz	Link ID 80214
06/07	Null message		
13/07	Null message		
20/07	Null message		
27/07	Null message		
	1330/1340/1350z	14978/12216/10164kHz	
03/08	Null message		
10/08	Null message		
17/08	Null message		
24/08	Null message		
31/08	Null message		
2nd/4th Saturday	0800/0810/0820z	13468/11634/9486kHz	Link ID 70147
08/07	<u>11166 70147 05196 07060 01509</u>	<u>60315 03183 99678 58128 46981 83960 82470 94306 52775 77391 87734 84902 ...</u>	
15/07	<u>11166 70147 05196 07060 01509</u>	<u>60315 03183 99678 58128 46981 83960 82470 94306 52775 77391 87734 84902 ...</u>	
	<u>11166 70147 91753 12061 00569</u>	<u>61505 53198 99676 58128 47171 33975 82478 94306 53965 27306 87732 84902 ...</u>	
	<i>(out of schedule week 3 TX, sent at 0700z instead of 0800z!)</i>		
22/07	<u>11166 70147 56921 21062 01369</u>	<u>88845 33107 99678 58128 64411 13984 82470 94306 70205 07315 87734 84902 ...</u>	
	0800/0810/0820z	12223/10186/8094kHz	
12/08	<u>11166 70147 18953 11063 01429</u>	<u>84335 93197 90678 58128 60901 73974 83470 94306 76795 67305 88734 84902 ...</u>	
26/08	<u>11166 70147 36987 25064 01509</u>	<u>58665 23101 90678 58128 34231 03988 83470 94306 40025 97319 88734 84902 ...</u>	
2nd/4th Saturday	0900/0910/0920z	16089/14384/12173kHz	Link ID 70004
08/07 & 22/07	<u>11166 70004 64283 07096 01829</u>	<u>55366 53305 92312 18785 70463 23185 62251 92400 80128 83981 89424 58183 ...</u>	
	0900/0910/0920z	16186/14571/12195kHz	

12/08 & 26/08 **11166 70004 37629 11097 00809** 73716 25777 37810 73826 20596 99505 87887 14391 32983 56640 20526 71815 ...

Saturday **1100/1110/1120z** **15964/13549/11524kHz** **Link ID 50046**

01/07 **11166 50046 97142 16001 00969** 52539 09083 93903 40530 19606 93698 58196 63673 57754 50179 71902 82228 ...
(yet another repeat of the message from 17/06)

08/07 **11166 50046 37294 07002 04229** 10559 59074 94903 40530 77626 43689 59196 63673 15774 00160 72902 82228 ...

15/07 **11166 50046 45173 14003 01349** 68849 49081 94903 40530 25916 33696 59196 63673 63064 90177 72902 82228 ...

22/07 & 29/07 **11166 50046 18374 21004 02589** 55029 89098 94903 40530 12196 73603 59196 63673 50244 30184 72902 82228 ...

1100/1110/1120z **16153/14438/12216kHz**

05/08 **11166 50046 34968 04005 00669** 49969 89071 95903 40530 06036 73686 50196 63673 44184 30167 73902 82228 ...

12/08 *Replaced by E06 ID 832*

19/08 **11166 50046 91586 18006 03529** 32899 59085 95903 40530 99966 43690 50196 63673 37014 00171 73902 82228 ...

26/08 **11166 50046 47315 25007 00689** 23839 79092 95903 40530 80906 63607 50196 63673 28054 20188 73902 82228 ...

Saturday **2100/2110/2120z** **17436/15789/13473kHz** **Link ID 40133**

01/07 Null message

08/07 Null message

15/07 Null message

22/07 Null message

29/07 Null message

2100/2110/2120z **16289/14461/12176kHz**

05/08 Null message

12/08 **11166 40133 90215 11032 01549** 39491 15058 74969 73572 93242 74647 04385 05053 35153 96830 09975 56314 ...

19/08 Null message

26/08 **11166 40133 25793 25033 01829** 57531 45062 74969 73572 11382 04651 04385 05053 53293 26844 09975 56314 ...

F06a

The F06 modem is actually used for two different kinds of payloads. The one labeled *F06* is a custom compressed 5FG format, and is the one used on all regular schedules. *F06a*, however, sends named, uncompressed files instead; it has been heard only in rare unscheduled broadcasts.

Specifics of each format are described here:

<http://priyom.org/number-stations/digital/f06/protocol>

<http://priyom.org/number-stations/digital/f06a>

While in theory this format could be used to carry any kind of file, in practice it has been used only for ASCII files containing 5FG's and 5LG's, 10 groups per line, preceded by the usual 5-group header. While 5FG's could be carried a lot more efficiently using the normal F06 format, 5LG's cannot be sent using it at all.

In this case, we caught a 5LG broadcast:

1220z **16346kHz**

03/07 **10075--1.TXT (1857 bytes)**

11100 10075 23654 01063 03009 TTPLU MVYGL RIBUD TLMGU GLCXG FDPVT PGIA X LNOTL RLWAK ...

This format gives only 12 bytes for a filename. Longer names, as seen above, are abbreviated using the same format as the one the Microsoft Windows operating systems use to present long filenames to old MS-DOS programs. It's worth noting that the line endings in files use the Windows/DOS-specific 2-byte sequence, CRLF.

Logs sent by: Ary, Danix

X06 Mazielka (1c) logs section

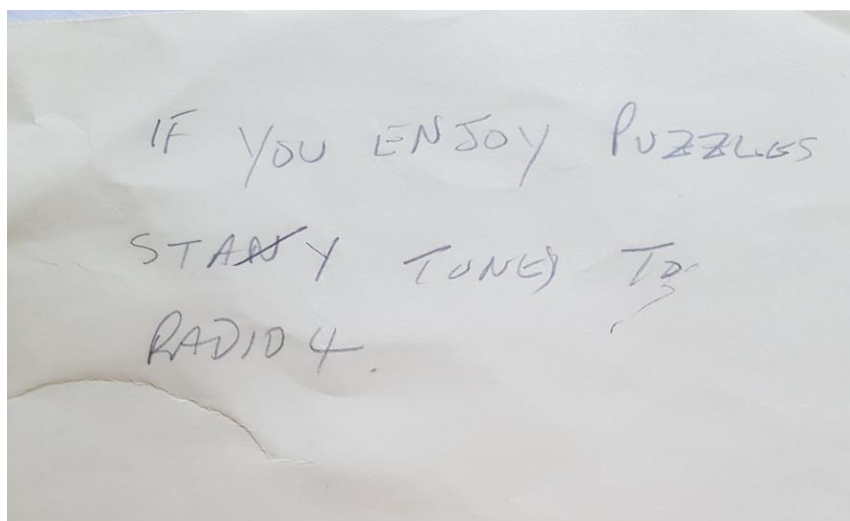
Date	Day UTC	Freq	Scale	Monitor	Comments
20170705	Wed 0635-0700	15819	256341	EdwardSmith	I. p., G311
20170705	Wed 1136-1137	12207	215346	Edward	I. p., G25
20170705	Wed 1915	14763	1--6--	Ary/NL	Weak X06b before and during E07
20170705	Wed 1932-1940	13363	1--6--	Curt/US	X06b before E07
20170707	Fri 1003-1010	12215	361245	PoSW	Peaking S9, G53
20170710	Mon 0933-0941	16117	463125	Edward	I. p., G77
20170710	Mon 1810/1812	16263	1--6--	LU5EMM	Weak X06b before E07 (again: 1814)
20170710	Mon 1811/1813	14763	1--6--	LU5EMM	Fair X06b before E07 (again: 1815)
20170711	Tue 1002-1008	14675	612534	Edward	I. p., G89
20170713	Thu 0932-0957	16153	123456	Edward	X06c i. p.
20170714	Fri 1002-1006	14863	615243	Edward, PoSW	I. p., G127
20170714	Fri 1003-1005	15828	256134	Edward	I. p., G125
20170719	Wed 0641-0643	13838	256341	Edward	I. p., G169
20170720	Thu 1052-1103	16153	153624	Ary	Alert 2 (i. p., G413 - new) 1
20170720	Thu 1111-1121	14550	153624	Edward	2.2
20170721	Fri 1031	12194	625413	Edward	I. p., G193
20170724	Mon 1107	13320	121212	Danix/PL	X06a

20170724	Mon	1220-1255	13320	1--6--	Ary, Edward	Long X06b
20170724	Mon	1240-1244	12217	364152	Edward	I. p., G73
20170724	Mon	1308-1309	12221	1-----	Ary	X06b single tone before M12
20170724	Mon	1311-1312	12221	1-----	Ary	X06b single tone before M12
20170728	Fri	0534-0535	15920	216435	Edward	Rare scale i. p., G336
20170728	Fri	1004-1006	15828	256134	Edward	I. p., G270
20170801	Tue	0802-0809	12157	165423	Edward	I. p., G12
20170801	Tue	0803-0814	14615	125643	Edward	Alert 2 (i. p., G317) 1
20170801	Tue	0823-0838	15989	125643	Edward	2.2
20170807	Mon	1003-1011	13438	16--16	Edward	X06b i. p.
20170807	Mon	1024-1032	13438	16--16	Edward	X06b
20170808	Tue	0957-1016	13430	1--6--	Edward	X06b i. p. (1)
20170808	Tue	1134-1207	13430	1--6--	Edward	X06b (1)
20170809	Wed	0802-0825	11153	465132	Edward, PoSW	S9, G100
20170809	Wed	1104-1105	14560	621543	Edward	G102 (2)
20170810	Thu	1049-1055	16632	1--6--	Edward	X06b (3)
20170810	Thu	1134-1151	16453	1--6--	Edward	X06b i. p.
20170810	Thu	1235-1324	16453	1--6--	Edward	X06b i. p. (repeat)
20170811	Fri	1036-1038	20146	616161	Ary	X06a before E07
20170811	Fri	1001-1010	12213	615243	Edward, PoSW	S9+, G127
20170811	Fri	1004-1008	17463	256134	Edward	I. p., G125
20170811	Fri	1104-1124	17000	6-----	Edward	X06b single tone i. p.
20170811	Fri	1208-1216	17000	6-----	Edward	X06b single tone again i. p.
20170816	Wed	0833-0834	13401	154263	PoSW	Only 90 secs, G414 (new group)
20170820	Sun	1835	13438	1--6--	LU5EMM	Weak X06b before XPA2m
20170820	Sun	1836	14738	1--6--	LU5EMM	X06b before XPA2m with QSA2
20170823	Wed	0820-1000	14818	1--6--	Ary	X06b i. p. (4)
20170823	Wed	0946-1027	14818	1--6--	Ary, Elmar	X06b again
20170823	Wed	1028-1541	14818	1--6--	Ary, Kopf	Strong, clear and long X06b
20170823	Wed	1639	13881	1--6--	Ary	X06b before E07
20170823	Wed	1645-1646	13881	1--6--	Ary, tiNG	X06b again before E07
20170824	Thu	0942-0946	10193	164532	Ary	G252
20170825	Fri	0746-084?	10238	1--6--	PoSW	Long X06b, 9+ (gone before 0850)
20170827	Sun	1904	13438	1--6--	LU5EMM	X06b before XPA2m
20170827	Sun	1905	14738	1--6--	LU5EMM	X06b before XPA2m

- 1) 1) Carrier was switched on/off perpetually in-between transmissions, completely off at 1200 UTC, sending the tones in pure USB.
- 2) 2) Carrier again switching on and off, ending in pure USB.
- 3) 3) Carrier was idling 45 mins before the tones were sent.
- 4) 4) Carrier stayed on after first stop of X06b.

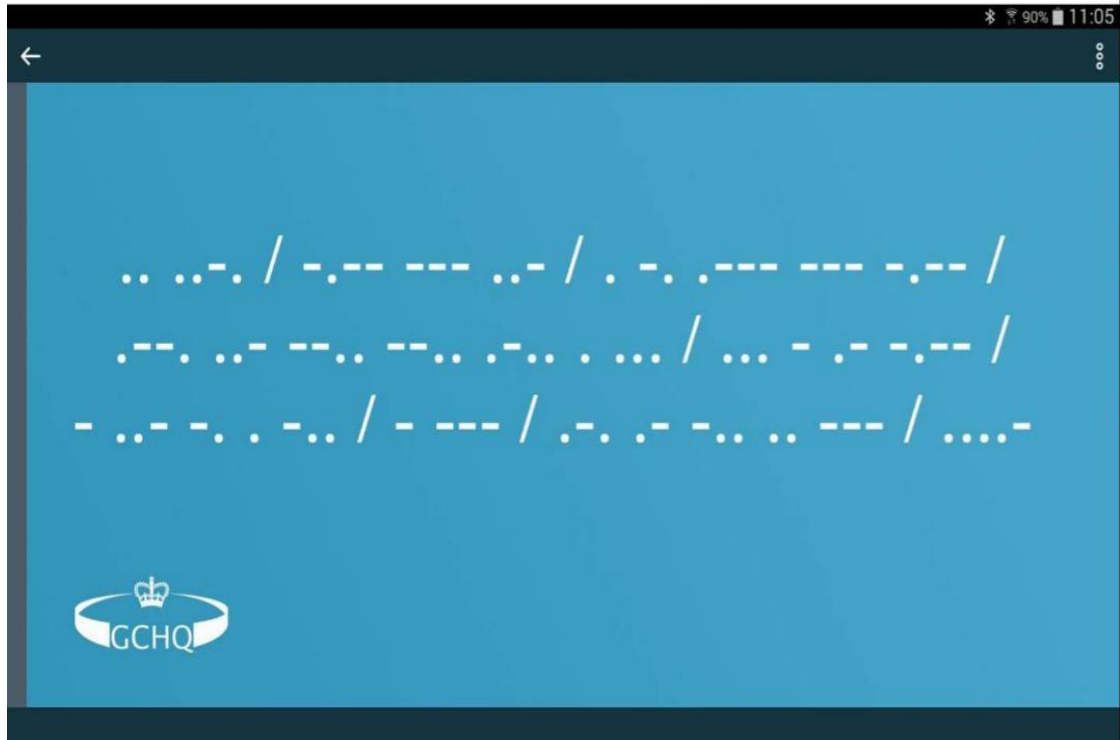
Gizza Job

As heard on BBC Radio 4 04/07/2017 modified time pips and the subsequent Twitter release as noted:



GCHQ on BBC Radio 4 listen to the pips: IF YOU ENJOY PUZZLES STAY TUNED TO RADIO 4

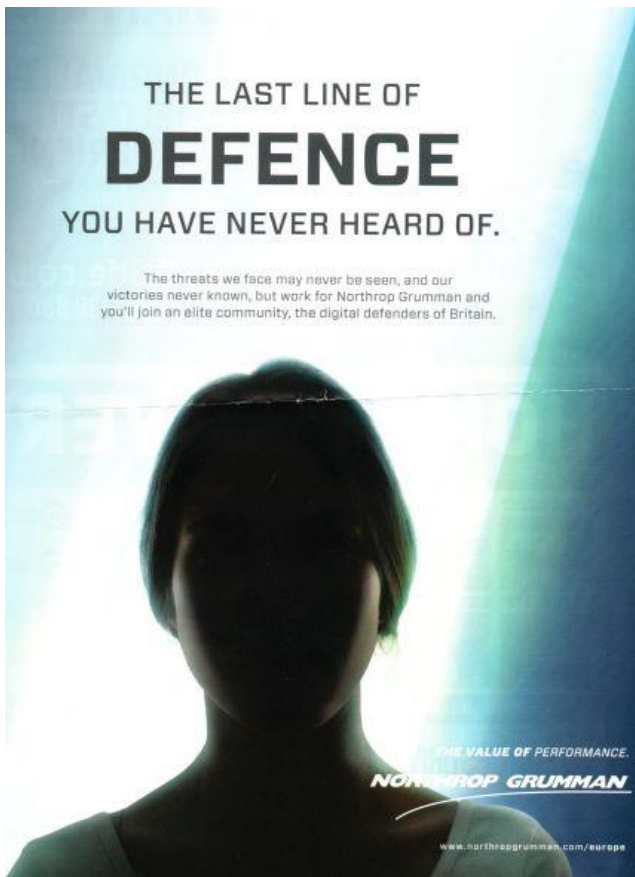
(No CT commencing transmission and no AR to finish. Poor sending 😞).



GCHQ @GCHQ

Speak Arabic? We have opportunities for linguists





Courtesy 'E'



Courtesy 'E'

PoSW's Newsround

Items of Interest in the Media:-

When I went up to pick up my copy of *The Times* on 05-July I noted several stories with links to the world of espionage, one of which had a local connection to my part of the world.

Ivan wants his houses back:- “Russia asks Trump to return its confiscated ‘spy mansions’” is the headline on a short item by Tom Parfitt in Moscow:- “Russia is pushing for the return of two mansions allegedly used for spying in the United States as Presidents Putin and Trump prepare to meet for the first time this week. The leaders are set to discuss the wars in Syria and Ukraine when they meet on the side-lines of the G20 summit in Hamburg on Friday.

But the fate of the two ‘spy mansions’, a 14-acre Long Island estate called Norwich House and a Georgian-style house on the Corsica River in Maryland is also nosing its way on to the agenda. Barack Obama ordered the residences, used by Russian diplomats for relaxation and entertaining, to be confiscated in December. His administration said they had been used ‘by Russian personnel for intelligence-related purposes’. The measure was part of US retaliation against Moscow for allegedly interfering in the US presidential election last year – 35 Russian diplomats were also expelled.

Mr Putin refused to react to Mr Obama's measures, saying he hoped for improved relations with Washington once Mr Trump was inaugurated. Mr Putin's spokesman, Dmitry Peskov, said on Monday that ‘patience was running out’ over Washington's refusal to hand back the residences. Russia could respond ‘reciprocally’ if they were not returned, he added. While relations are still strained, the two properties have been mooted as a possible olive branch for Mr Trump to offer when the leaders meet.”

I like that expression “for relaxation and entertaining”; involving the services of high-class ladies who charge \$1,000 for an all-night use of their services, I’ll bet.

Company Man tells all:- the second story from this edition of *The Times*, written by Hugh Tomlinson and Haroon Janjua, carries the headline, “CIA man's memoir sparks fury in Pakistan”, and says, “It was a spy drama that threatened fatally to undermine relations between the US and Pakistan: two men shot dead by a covert CIA contractor.

Six years on, the case of Raymond Davis has again prompted a political row in Pakistan, with the publication of a tell-all book by the former CIA man. The memoir lifts the lid on the political intrigue that ended with him being spirited out of Pakistan in 2011. It has triggered demands for Mr Davis to be extradited to face justice, but also revived debate about the power of the state over Pakistani life and the rule of law.

The Contractor: How I Landed in a Pakistani Prison and Ignited a Diplomatic Crisis, published last week, paints a vivid picture of the moment Mr Davis opened fire on two armed men who stopped his car in Lahore on January 27, 2011. ‘As soon as I saw the gun's muzzle moving in my direction, I unclicked my seatbelt and started to draw the gun. In a matter of two or three seconds, the entire engagement, from the moment I saw the threat to the moment it had been eliminated, was over,’ Mr Davis wrote.

The two men, Muhammad Faheem and Faizan Haider, were killed by five rounds each from Mr Davis' Glock 17. They were said to be agents of Pakistan's feared spy agency, the Inter-Services Intelligence (ISI) who had been following Mr Davis, though this has never been confirmed. Police disputed Mr Davis' claim that he had fired in self-defence, and investigators claimed that neither of the dead men's weapons had a bullet in the chamber.

Mr Davis was almost lynched by a mob, his life saved by Pakistani policemen. He claims he was tortured by ISI. Facing claims for his execution, he was abruptly released after 49 days. After \$2.4 million was paid to his victims' families, he was put on a plane to Afghanistan. 'ISI orchestrated my exit,' he wrote, claiming that the US was desperate to free him before launching its raid to assassinate Osama bin Laden, just six weeks later, in Abbottabad.

Headstone for unmarked grave of Nazi spy:- The third news item from this issue of *The Times* has a local connection to those of us who reside near the city of Cambridge, the unfortunate individual referred to has a rather unlikely and perhaps innuendo-inspiring name for those of us whose everyday language is English, "Headstone for unmarked grave of Nazi spy" is the headline of a short item by Simon de Bruxelles, which says, "He was a forgotten casualty of the Second World War: a Dutch Nazi Spy who shot himself in a Cambridge park fearing his cover had been blown.

Engleburtus Fukken is to receive a permanent memorial after relatives were granted permission to place a headstone on his unmarked grave. Fukken, 26, was recruited by the Abwehr, the German military intelligence organisation, shortly before the Nazis occupied the Netherlands and was parachuted into Britain in 1940. He landed in Buckinghamshire, a few miles from the top secret code-breaking centre at Bletchley Park and made his way to Cambridge with false papers in the name of Jan Willem Ter Braak.

For the next four months he is believed to have travelled around southern Britain reporting back on damage caused by Luftwaffe air raids. He used a transmitter hidden in a small suitcase until his batteries ran out, then started sending letters written in invisible ink. By spring 1941 his money had run out and the Food Office had begun asking questions about his forged ration card. At the end of March he made his way to Christ Pieces Park where he shot himself in a public air raid shelter with his Abwehr-issued pistol.

Guy Liddell, deputy head of MI5, recorded in his diary that Fukken's death solved the mystery of the 'parachutist reported near Bletchley'. The case was covered up and Fukken's own family were not aware of his fate until recently. They plan to erect a headstone on his grave at Great Shelford, four miles from Cambridge."

The name of Jan Ter Braak triggered something in the memory circuits that a piece on this individual and his demise in Cambridge had featured in an article in our local paper, the *Cambridge Evening News* a few years back in a series on little-known historic events in the city, and that there had been some feedback in the form of reader's letters following on from this. A search through my press cuttings books found that this was more than a few years ago, it was over two decades ago – it's later that you think! – and I appear not to have saved the original article but a couple of letters from readers who seemed to know something about the case suggests that all might not be all that straightforward with the Ter Braak/Fukken case.

From the *Evening News* of 31-December 1996, a letter from a David Farrant of Newmarket said:- ".....Everyone then had fallen for John Masterman's official cover story, as was intended, that this man was a German agent who killed himself. However, as the real Jan Ter Braak died many years later in his native Holland and the Abwehr had no record of the Cambridge agent, one is led elsewhere for the story.

I know some of it and would like to hear from any readers who know more.

'Ter Braak' was associated with Prof Arthur Pigou from King's College, who with others was gathering information for Soviet use in the Cambridge/Newmarket area.

Ter Braak was a bookseller and a local book collector was Victor Rothschild (the 'fifth man') according to Roland Perry in his book). Rothschild had the lease on a London house where Blunt, Burgess and his wife Tess Mayor lived. A frequent visitor there was Guy Liddell (MI5), who some say was responsible for the Cambridge cover-up when 'Ter Braak' was thought to expose a highly placed Soviet agent and was 'liquidated'.

There were many other connections too. Anyone know any more?"

A week later, on 6-January-1997 another letter on the subject appeared from a Peter Clifton, also of Newmarket:- "The wartime communist connection stretched to Newmarket. Archive material reveals that Victor Rothschild was a resident of Newmarket's Palace House. Richard Llewellyn-Davis, another 'apostle', visited Rothschild at Newmarket. His wife-to-be Patricia Rawdon-Smith shared a flat with Tess Mayor in Bentick Street (she was later to be Rothschild's second wife).

At this time SOE and other intelligence organisations were active at Newmarket Heath, RAF Newmarket and three miles away at RAF Snailwell the testing of aircraft and associated equipment was ongoing. It was a haven for Soviet agents, including Prof Pigou and his student Wilfrid Noyce and others. Other people were put at real risk, such as the brave and courageous agents placed in occupied Europe by SOE."

Nicholas and Alexandra :- Rehabilitation of "Bloody Tsar Nicholas":- the motion picture "*Nicholas and Alexandra*" was shown on one of the TV film channels several times over a week or two earlier this year, better than the usual stuff they show these days, which resulted in the expenditure of a trifling sum at a local emporium to purchase the DVD of the same, worth doing anyway because it appears that all films shown on TV are cut down, either edited for violence and well, that other thing, or to fit in with the available transmission slot.

The DVD version runs for 181 minutes, just over three hours, then, and the plot can be best summed up by the "blurb" on the back of the DVD case:- "Michael Jayston (Nicholas II) and Janet Suzman (Alexandra) star in this epic portrayal of the years of corruption, oppression and bloodshed leading up to the Russian Revolution.

Born to be one of the world's most powerful men, ruler of millions with an empire that stretched over more than one sixth of the world, Nicholas and his family are doomed to die violently at the hands of his people in revolt.

Winner of two Academy Awards, Best Art Direction and Best Costume Design, 1971, *Nicholas and Alexandra* features an all-star cast of Britain's finest actors including: Sir Laurence Olivier, Irene Worth, Harry Andrews, Jack Hawkins, Michael Redgrave and Tom Baker as Rasputin."

So it was interesting to see a short item in *The Times* of 18-July with the headline, "Pilgrims march for murdered Nicholas II", written by Howard Amos, which says:- Russia has marked the 99th year since the killing of its last Tsar and his family with a religious procession and a new statue. Tens of thousands of Orthodox Christians walked through the night from the Siberian city of Yekaterinburg to the spot 13 miles away where Nicholas II was killed by a Bolshevik firing squad as monarchist forces approached the city during the Russian Civil War.

Nicholas remains a divisive figure in Russia. Many blame his failings for the end of the Romanov dynasty and the creation of the Soviet Union. But he is revered as a martyr by conservatives and monarchists and was made a saint of the Orthodox Church in 2000. The procession began shortly after 2am – about the same time that the tsar was shot – and people walked to an Orthodox monastery on the site of the merchant's house where the killing took place. Priests, local Cossacks and nationalists were among the participants, who also included Natalia Poklonskaya, a controversial MP who claimed this year that a bust of Nicholas had oozed myrrh on the 100th anniversary of him being overthrown as tsar in the February 1917 revolution.

In another service of commemoration, a church in the Siberian city of Novosibirsk unveiled a statue of Nicholas and his son Aleksei, who was

thirteen when he died alongside his father, mother and sisters.

Although Nicholas was a cousin of George V of England, he was declined asylum in the United Kingdom because Lloyd George's government feared the move would cause protests. Russia is marking the centenary of the 1917 revolution but commemorations have been muted because the Kremlin prefers a historical narrative that stresses national triumph.”

Point to Ponder:- “The past is a foreign country: they do things differently there”. L.P. Hartley, opening words from *The Go-Between*.

00000

“Peter of Saffron Walden”

Thank you to all our contributors

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8. XPA2 p Schedule

Sept 2017

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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	search (11430, 15388?)	search (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	6304 41#	6304 41#
	x			x			0455		S11A	03	5358 32#	5358 32#
x	x	x	x	x	x	x	0500		V13	0	15250	15250
x		x		x		x	0500		HM01	18	10860	10860
	x		x		x		0500		HM01	18	11462	11462
					x		0500/0520/0540		M12	01B	8176/ 9376/10476 134	6832/ 7932/ 892, search
			x	x			0500/0600	1/3	E06	01A	14370/16265 354	
x			x				0530		E11	03	7317 64#	7317 64#
x	x	x	x	x	x	x	0540 (var)		HM02	01C		4761 during Wintertime
x	x	x	x	x	x	x	0600		V13	0	15250	15250
x				x			0600		E11	03	12202 18#, check	12202 18#
x		x		x		x	0600		HM01	18	10345	10345
	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		M14	01A	6824/6990 382	6824/6990 382
			x	x			0600/0700	1/3	E06	01B		18425/20230 186
						x	0630/0640		S06S	01A	22185/20050 524	22185/20050 524
	x		x				0645		E11	03	13424 51#	10800 51#
x	x	x	x	x	x	x	0700		V13	0	15388	15388
						x	0700		M01	01B	6510 463	6510 463
x		x		x		x	0700		HM01	18	9330	9330
	x		x		x		0700		HM01	18	13435	13435
	x						0700/0710 (15)		S06S	01A	5760/ 6930 374	5760/ 6930 374
	x			x			0700/0720/0740		XPA2t	01B	17429/18629/20129	16284/18184/19584
	x			x			0710		E11	03	9963 63#	9963 63#
					x	x	0710		E11	03	49#, search	49#, search

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Sep kHz, ID, ...	Oct kHz, ID, ...
	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							0745		E11	03	10213 26#	10213 26#
x	x	x	x	x	x	x	0800		V13	0	15388	15388
x							0800	1/3	G06	01A	6810 329	6810 329
x		x		x		x	0800		HM01	18	9065	9065
	x		x		x		0800		HM01	18	11365	11365
			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/ 5561 171
					x	x	0805		E11	03	11450 31#	11450 31#
x			x				0820		E11	03	6804 43#	6804 43#
	x	x					0820		E11	03	12530 13#	12530 13#
		x					0820/0830		S06S	01A	8630/ 9255 471, check!	8630/ 9255 471, check!
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					0900		E11	03	9399 53#	9399 53#
x		x		x		x	0900		HM01	18	9240	9240
	x		x		x		0900		HM01	18	11462	11462
x							0900/0910		S06S	01A	14580/13165 872	14580/13165 872
				x			0900/0910		S06S	01A	5744/ 6524 624	5744/ 6524 624
	x			x			0915		S11A	03	7317 48#	7317 48#
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

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Sep kHz, ID, ...	Oct kHz, ID, ...
				x			0930/0940		S06S	01A	12140/13515 516, search	12140/13515 516, search
	x			x			1000		E11	03	7840 30#	7840 30#
x		x		x		x	1000		HM01	18	9155	9155
	x		x		x		1000		HM01	18	12180	12180
	x						1000/1010		S06S	01A	6410/ 7340 893	6410/ 7340 893
		x					1000/1010		S06S	01A	13365/14505 729	13365/14505 729
x			x				1015		S11A	03	16112 47#, check	16112 47#
	x			x			1020		S11A	03	x9960 42#, check	9960 42#
	x						1045		E11	03	8102 57#	8102 57#
	x						1100/1110		S06S	01A	6190/ 7230 754	6190/ 7230 754
	x			x			1100/1120/1140		E07	01B	search	search
x	x	x	x	x	x	x	1200		V13	0	9725	9725
		x					1200	?	G06	01A	563, search ex 5755 691	563, search ex 5755 691
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	?	G06	01A	563, search ex 4967 691	563, search ex 4967 691
			x				1300	1/3	G06	01A	4598 329	4598 329
			x		x		1300		E11	03	10302 58#	10302 58#
			x		x		1310/1330/1350		M12	01B	13873/13373/11473 834	12214/10814/ 9214 282
	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		x	1500/1520/1540		XPA2p	01B	16147/14947/14447	16147/14947/14447

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Sep kHz, ID, ...	Oct kHz, ID, ...
				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	1600		HM01	18	11435	11435
	x	x					1600	1/3	M14		4635 273	4635 273
	x					x	1605		E11	03	6397 23#	6397 23#
		x				x	1625		E11	03	10448 97#	10448 97#
				x		x	1650		E11	03	13873 92#	13873 92#
x							1700	1/2	G06	01A	563, search ex 4784 691	563, search ex 4784 691
x	x	x	x	x	x	x	1700		HM01	18	11530	11530
		x				x	1700/1720/1740		E07	01B	13527/12227/10627 526	13376/12176/10776 317
x		x					1700/1720/1740		M12	01B	9176/ 7931/ 6904 257	9176/ 7931/ 6904 257
				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#
			x				1730		E11	03	9371 41#	9371 41#
		x					1740/1840	3	E06	01A		2015: 13457/10204 634, search
x						x	1745		E11	03	13470 24#	13470 24#
x							1800	1/2	G06	01A	563, search ex 5460 691	563, search ex 5460 691
	x		x				1800		M01	14	5475 463	5475 463
x	x	x	x	x	x	x	1800		HM01	18	11635	11635
		x					1800/1820/1840		M12	01B	9176/ 7931/ 6904 257	9176/ 7931/ 6904 257
	x					x	1800/1820/1840		XPA2m	01B	14538/13538/12138	
x							1810		M01B	14	3535, 4590 420	3535, 4590 420
					x		1810/1820/1830		M42C	01A	13384/11441/ 9184	11462/ 9226/ 7829
	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
	x			x			1840/1850/1900	1	M42C	01A	13467/11084/ 9052	11136/ 9074/ 7723
x		x					1900/1920/1940		E07	01B	14584/13384/11584 535	11539/10139/ 8139 511

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Sep kHz, ID, ...	Oct kHz, ID, ...
		x					1900/1920/1940		M12	01B	8047/ 6802/ 5788 463	8047/ 6802/ 5788 463
				x	x		1900/1920/1940		XPA2r	01B	16167/14663/13923	
				x			1900/2000	1/3	S06	01A	9237/ 6774 514	
					x		1900/2000	1/3	S06	01A	4538/ 3894 913	
				x			1902		M01B	14	3625, 4941 153	3625, 4941 153
				x		x	1910		E11	03	8530 61#	8530 61#
x							1915		M01B	14	3644, 4454 771	3644, 4454 771
		x					1920	2/4	M14	01A	5464 537	5464 537
	x		x				1925		E11	03	10620 52#	10620 52#
				x			1930	2/4	G06	01A	5442 947	5442 947
		x		x			1955		S11A	03	4016 37#	4016 37#
				x			2000		E11	03	7377 57#	7377 57#
	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		E07A	01A	8144/ 6944/ 5744 147	8144/ 6944/ 5744 147
				x			2000/2100	1/3	S06	01A		9237/ 6774 514
					x		2000/2100	1/3	S06	01A		4538/ 3894 913
					x	x	2005		E11	03	8186 36#	8186 36#

M01 FREQUENCY LIST

Frequencies may vary by a few kHz

JAN FEB NOV DEC

M01/1

197

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

MAR APRIL SEPT OCT

M01/2

463

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

MAY JUNE JULY AUG

M01/3

025

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

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	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 07/17
x							0450		E11	03	7469 41#	7469 41#	6304 41#	6304 41#	since 02/10, last log 08/17 2nd transmission Thu 1730z
	x		x				0455		S11A	03	5149 32#	5149 32#	5358 32#	5358 32#	since 09/14, last log 08/17
x			x				0530		E11	03	7600 64#	7600 64#	7317 64#	7317 64#	since 05/16, last log 08/17
x			x				0600		E11	03	10213 18#	15800 18#	12202 18#, check	12202 18#	since 07/15, last log 08/17
	x		x				0645		E11	03	13424 51#	13424 51#	13424 51#	10800 51#	since 07/09, last log 08/17
	x			x			0710		E11	03	10429 63#	10429 63#	9963 63#	9963 63#	since 02/11, last log 08/17
					x	x	0710		E11	03	6480 49#	6480 49#	49# , search	49# , search	since 08/17, last log 08/17 07/15-04/17 Thu/Sat
x							0745		E11	03	9610 26#	9610 26#	10213 26#	10213 26#	since 03/14, last log 08/17 2nd transmission Thu 1530z
				x	x		0805		E11	03	9079 31#	9079 31#	11450 31#	11450 31#	since 07/14, last log 08/17
x			x				0820		E11	03	6820 43#	6820 43#	6804 43#	6804 43#	since 10/09, last log 08/17
	x	x					0820		E11	03	13911 13#	13911 13#	12530 13#	12530 13#	since 08/13, last log 08/17
x		x					0900		E11	03	13427 53#	13427 53#	9399 53#	9399 53#	since 10/05, last log 08/17
	x		x				0915		S11A	03	8530 48#	8530 48#	7317 48#	7317 48#	since 01/10, last log 08/17
		x	x				0930		E11	03	6304 27#	6304 27#	6807 27#	6807 27#	since 02/14, last log 08/17
	x			x			1000		E11	03	12397 30#	12397 30#	7840 30#	7840 30#	since 11/16, last log 08/17
x			x				1015		S11A	03	10210 47#	10210 47#	16112 47#, check	16112 47#	since 04/10, last log 08/17
	x			x			1020		S11A	03	8800 42#	8800 42#	x9960 42#, check	9960 42#	since 02/10, last log 08/17 2nd transmission Thu 1730z
	x						1045		E11	03	13873 57#	13873 57#	8102 57#	8102 57#	since 01/12, last log 08/17 2nd transmission Fri 2000z
	x	x					1205		E11	03	6304 46#	6304 46#	7727 46#	7727 46#	since 03/10, last log 08/17 2nd transmission Mon 0450z
x				x			1225		E11	03	13537 52#	13537 52#	20286 52#	20286 52#	since 05/15, last log 08/17
			x		x		1300		E11	03	11581 58#	11581 58#	10302 58#	10302 58#	since 02/16, last log 08/17
	x				x		1345		E11	03	15825 91#	15825 91#	13046 91#	13046 91#	since 10/15, last log 08/17
			x				1530		E11	03	10356 26#	10356 26#	10330 26#	10330 26#	since 06/14, last log 08/17 2nd transmission Mon 0745z
		x			x		1540		S11A	03	11092 56#	11092 56#	10800 56#	10800 56#	since 03/16, last log 08/17
	x				x		1605		E11	03	4783 23#	4783 23#	6397 23#	6397 23#	since 11/15, last log 08/17
		x				x	1625		E11	03	15795 97#	15795 97#	10448 97#	10448 97#	since 02/15, last log 08/17
				x		x	1650		E11	03	14940 92#	14940 92#	13873 92#	13873 92#	since 05/16, last log 08/17
		x			x		1705		E11	03	14865 39#	14865 39#	10213 39#	10213 39#	since 02/14, last log 08/17
		x			x		1730		E11	03	7984 40#	7984 40#	5844 40#	5844 40#	since 06/16, last log 08/17
			x				1730		E11	03	8088 41#	8088 41#	9371 41#	9371 41#	since 03/10, last log 08/17 2nd transmission Mon 0450z
x						x	1745		E11	03	14410 24#	14410 24#	13470 24#	13470 24#	since 05/16, last log 08/17
				x		x	1910		E11	03	9510 61#	9510 61#	8530 61#	8530 61#	since 04/17, last log 08/17
	x		x				1925		E11	03	11581 52#	11581 52#	10620 52#	10620 52#	since 07/15, last log 08/17
		x		x			1955		S11A	03	4870 37#	4870 37#	4016 37#	4016 37#	since 02/14, last log 08/17
				x			2000		E11	03	8530 57#	8530 57#	7377 57#	7377 57#	since 03/12, last log 08/17 2nd transmission Tue 1045z
					x	x	2005		E11	03	9130 36#	9130 36#	8186 36#	8186 36#	since 03/14, last log 08/17 2nd transmission Thu 1530z

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 08/17 repeat at Thu 1300Z
	x						1200	?	G06	01A	6930 563	6930 563	563, search ex 5755 691	563, search ex 5755 691	since 10/14, last log 08/17 yearly changing frequencies + id repeat at 1300Z
	x						1300	?	G06	01A	6924 563	6924 563	563, search ex 4967 691	563, search ex 4967 691	since 10/14, last log 07/17 yearly changing frequencies + id repeat from 1200Z
		x					1300	1/3	G06	01A	5890 329	5890 329	4598 329	4598 329	since 09/11, last log 06/17 repeat from Mon 0800Z
x							1700	1/2	G06	01A	5471 563	5471 563	563, search ex 4784 691	563, search ex 4784 691	since 04/10, last log 08/17 yearly changing frequencies + id repeat at 1800Z
x							1800	1/2	G06	01A	5764 563	5764 563	563, search ex 5460 691	563, search ex 5460 691	since 05/09, last log 08/17 yearly changing frequencies + id repeat from 1700Z
		x					1830	2/4	G06	01A	6887 842	6887 842	5934 579	5934 579	since 05/01, last log 08/17 repeat at Fri 1930Z
			x				1930	2/4	G06	01A	5943 218	5943 218	5442 947	5442 947	since 04/01, last log 08/17 repeat from Thu 1830Z

Current HM01 Schedules

Freq 1	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
5855	0500	0500		0500		0500	
11462			0500		0500		0500
10345	0600	0600		0600		0600	
14375			0600		0600		0600
9330	0700	0700		0700		0700	
13435			0700		0700		0700
9065	0800	0800		0800		0800	
11635			0800		0800		0800
9240	0900	0900		0900		0900	
11462			0900		0900		0900
5855	1000	1000		1000		1000	
9155	1000	1000		1000		1000	
12180			1000		1000		1000
11435	1600	1600	1600	1600	1600	1600	1600
11530	1700	1700	1700	1700	1700	1700	1700
11635	1800	1800	1800	1800	1800	1800	1800
11635	2100	2100		2100		2100	
16180			2100		2100		2100
10715	2200	2200		2200		2200	
17480			2200		2200		2200

F06 Schedules (September 4, 2017)

Most schedules repeat the next day using the same times and frequencies if a message was sent, unless noted.
Yellow schedules indicate message-only repeats of other schedules, not always present.

Week	Day	UTC	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	ID
Every	Mon - Fri	02:00	16321												60146
		03:00	14881												
New message every day, no repeats the following days. Parallels M42c at 0000/0100z, S06 at 0400z, and M14 at 0500z.															

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

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

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

Week	Day	UTC	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	ID
Every	Wednesday	08:00	?	?	18038	16064	14694	14368	13994	14976	?	?	?	?	70048
		08:10	?	?	16344	14367	12223	12204	12058	13373	?	?	?	?	
		08:20	?	?	14563	12208	10163	10309	10174	11168	?	?	?	?	

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

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

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

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

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

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

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

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

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

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

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

F01 Schedules (June 5, 2017) Most schedules repeat the next day using the same times and frequencies if a message was sent, unless noted.

Week	Day	UTC	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Every	Mon - Fri	00:00	17471											
		01:00	14421											
New message every day. Parallels M42d at 0200/0300z, S06 at 0400z, and M14 at 0500z.														

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

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

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

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

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

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

Notes:

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

XPA2 m Repetitive frequency triplets, appears robust, generally strong into UK

XPA2 r Schedule appears robust; generally very strong signals to UK

XPA2 t Weak in UK

XPA2 p Six day variable schedule, separate document

Bespoke decoding program used to decode: 'Sepal'

Updated 17/08/2017

XPA2 p Russian Intelligence Multitone Systems [Radiogramma] Transmission Schedules

Zulu H+20	Sun			Mon			Tue			Wed			Thu			Fri			Sat		
Jan 0800				15978	14978	14378				15978	14978	14378									
Feb 0800				15983	14783	13883				15983	14783	13883									
Mar 0800				15956	14956	13956				15956	14956	13956									
Apr 1500	16147	14947	14447													16147	14947	14447			
May 1500	16314	15814	14514													16314	15814	14514			
June 1900							15884	14984	14384				15884	14984	14384						
July 1900							15884	14984	14384				15884	14984	14384						
Aug 1900							16314	15814	14514				16314	15814	14514						
Sept 1500	16147	14947	14447													16147	14947	14447			
Oct 1500	16147	14947	14447													16147	14947	14447			
Nov 0800				16073	14973	14373				16073	14973	14373									
Dec 0800				15861	14761	13561				15861	14761	13561									

XPA2 p

Appears to be a robust schedule

Usually strong into UK, poor conditions known to affect sendings.

SPECIAL MATTERS

Thanks to all our contributors:

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Apologies to anyone missed.



Operation Jallaa: Nil Return

MESSAGES:

E: Thanks for useful logs es adverts - Hope yr QRM subsides. 14075kHz indeed amateurs QRP data mode JT65. - Rgds

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>

2017

Source: Vertex42.com

January

Su	M	Tu	W	Th	F	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

February

Su	M	Tu	W	Th	F	Sa
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28				

March

Su	M	Tu	W	Th	F	Sa
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

April

Su	M	Tu	W	Th	F	Sa
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

May

Su	M	Tu	W	Th	F	Sa
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

June

Su	M	Tu	W	Th	F	Sa
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

July

Su	M	Tu	W	Th	F	Sa
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

August

Su	M	Tu	W	Th	F	Sa
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

September

Su	M	Tu	W	Th	F	Sa
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

October

Su	M	Tu	W	Th	F	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

November

Su	M	Tu	W	Th	F	Sa
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

December

Su	M	Tu	W	Th	F	Sa
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

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